Anxiety and Depression in Children and Young People with Life-Limiting Conditions

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Abstract

Children and young people with life-limiting conditions experience various challenges, which may make them more vulnerable to anxiety and depression. This thesis investigates the prevalence, incidence and associated factors of anxiety and depression in children and young people with life-limiting conditions.

Two systematic reviews were conducted; a meta-analysis of the prevalence and incidence of anxiety and depression in children and young people with life-limiting conditions, and a best evidence synthesis of the factors associated with anxiety and depression in this population. These reviews informed a comparative cohort study, which used data from the Clinical Practice Research Datalink (CPRD) and linked datasets to investigate the incidence of and risk factors for anxiety and depression in 5,527 with life-limiting conditions, 6,729 with chronic conditions and 13,057 with no long-term conditions.

The meta-analysis reported a higher pooled prevalence of anxiety and depression in children and young people with life-limiting conditions compared to prevalence estimates found in the general population. No relevant studies of anxiety or depression incidence were found. The best evidence synthesis identified conflicting evidence for associations between most of the sociodemographic factors investigated and anxiety/depressive symptoms, as well as limited evidence for the protective role of coping style.

Findings from the CPRD analysis indicated that the incidence of anxiety and depression was highest among children and young people with chronic conditions, followed by those with life-limiting conditions, with the lowest incidence observed among those with no long-term conditions. In all three condition groups, the incidence of anxiety and depression was associated with female sex, older age, ethnicity, and maternal mental health conditions. These findings have important implications for the provision and targeting of psychological support for these children and young people in order to improve their mental health.

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Author's Declaration

I declare that this thesis is a presentation of original work and I am the sole author. This work has not previously been presented for an award at this, or any other, University. All sources are acknowledged as references.

Parts of this thesis have been disseminated in the following publication and presentations:

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- Martin House Research Centre 2018 Conference, 21 September 2018, York (poster)

Chapter 1: Background

This thesis reports an investigation into anxiety and depression in children and young people with life-limiting conditions. The studies included in this thesis assessed both the prevalence and incidence of anxiety and depression, and the factors associated with anxiety and depression in this population group. This chapter provides the contextual background, reporting existing evidence on the epidemiology of life-limiting conditions, anxiety, and depression. The potential vulnerability of children and young people with life-limiting conditions to anxiety and depression will then be explained, and the gaps in the existing evidence described. The aims and objectives of the research conducted for this thesis are set out at the end of the chapter. The term 'children and young people' will be used throughout this thesis to refer to children, adolescents and young adults, as outlined by the United Nations (United Nations, 2021).

1.1 Life-Limiting Conditions

The umbrella term 'life-limiting conditions' is used to describe both life-limiting conditions, where there is "no reasonable hope of cure and from which children or young people will die", for example Duchenne muscular dystrophy or Batten disease, and life-threatening conditions, those in which "curative treatment may be feasible but can fail", such as cancer or organ failure (Together for Short Lives, 2018, p.10). The important distinction between these conditions and other chronic physical illnesses diagnosed in childhood, such as diabetes or asthma, is the likelihood of death during childhood or young adulthood. The concept of life-limiting conditions was defined in 1997 by the Royal College of Paediatrics and Child Health and the Association for Children's Palliative Care by outlining four different types of life-limiting conditions (Hain et al., 2013). The definitions of these categories have more recently been updated and are displayed in Figure 1. In 2013, Hain et al. created a directory of life-limiting conditions by mapping these four categories to the diagnoses of patients who received care from hospices or palliative care services in the UK. This resulted in a list of 376 diagnoses classified as life-limiting conditions (Hain et al., 2013).

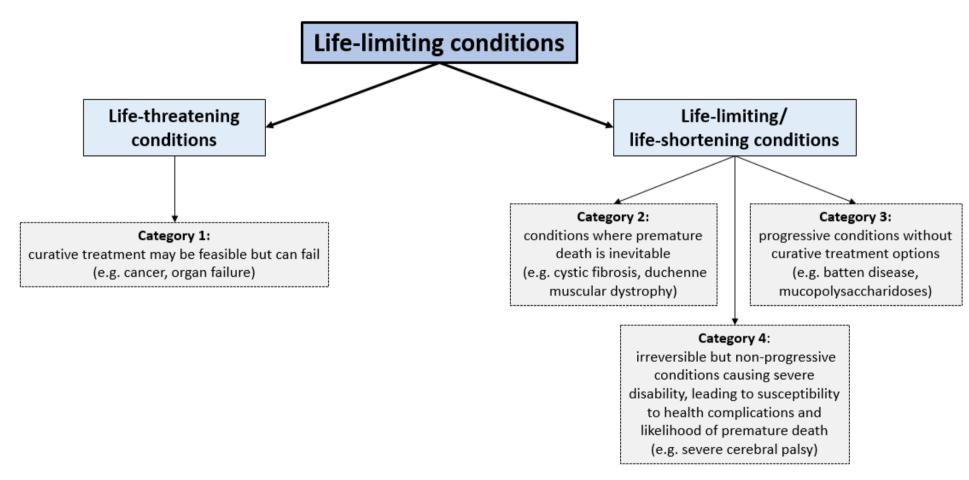


Figure 1. Categories of life-limiting conditions (Together for Short Lives, 2018)

Although the term 'life-limiting conditions' is widely used in the UK and will be used in the remainder of this thesis, it is worth noting that the terminology used to describe such conditions does vary by country. For example, 'complex chronic conditions' is used in countries such as the US, defined as (Feudtner, Christakis and Connell, 2000, p.206):

any medical condition that can be reasonably expected to last at least 12 months (unless death intervenes) and to involve either several different organ systems or one organ system severely enough to require specialty pediatric care and probably some period of hospitalization in a tertiary care center.

This definition was used by Feudtner and colleagues to search death certificate data in order to generate a list of complex chronic conditions; many of the diagnoses in this list are also classified as life-limiting conditions in the UK (Feudtner, Christakis and Connell, 2000).

Over the last two decades, the prevalence of life-limiting conditions in the UK has greatly increased. In England, prevalence figures among 0 to 19 year olds increased from 26.7 per 10,000 in 2000/2001 to 66.4 per 10,000 in 2017/18 (Fraser et al., 2020a). The prevalence of life-limiting conditions among 0 to 21 year olds in Scotland also increased from 31.7 per 10,000 in 2003/04 to 44.3 per 10,000 in 2014/15 after which the increase in prevalence slowed, with a prevalence of 45.0 per 10,000 recorded in 2018/19 (Public Health Scotland, 2020). Although both countries saw an increase in prevalence across all life-limiting condition diagnostic groups, the largest increase in prevalence was observed for perinatal disorders in England and genitourinary diagnoses in Scotland (Fraser et al., 2020a, Public Health Scotland, 2020). Although increased survival may account for some of the observed increase in prevalence, data from England has shown an increased incidence in the recording of life-limiting conditions between 2001 and 2017 (Fraser et al., 2020a). However, it is unclear whether this increase in incidence translates to a true increase in the number of children and young people being diagnosed with a life-limiting condition or whether it reflects changes in coding practices, resulting in increased recording of life-limiting condition diagnoses (Fraser et al., 2020a).

All of the aforementioned studies from England and Scotland found congenital anomalies, structural or functional abnormalities that occur prenatally (e.g. congenital heart disease) to be the most prevalent life-limiting condition diagnosis (Fraser et al., 2020a, Fraser et al., 2015, Fraser et al., 2012, Public Health Scotland, 2020). This was also reported in a study examining referrals to paediatric palliative care in the US and Canada (Feudtner et al., 2011). A recent study of healthcare utilisation by children and young people with life-limiting conditions in South Korea, however, reported cancer to be the most common condition, accounting for over 25% of the identified sample (Friedel et al., 2019, Kim et al., 2020). These differences are likely to be the result of both the sampling strategy and data collection methods used in each study, in addition to international variations in the categorisation of life-limiting conditions who are living with more than one life-limiting condition in the UK has increased over time from 15.6% in 2001/02 to 28.4% in 2017/18 (Fraser et al., 2020a). This trend has also been observed in the US (Bjur et al., 2019).

The prevalence of life-limiting conditions is highest among children under the age of one year; in 2017/18 in England the prevalence in this age group was 226.5 per 10,000 (Fraser et al., 2020a). The mortality rate is also highest in this age group, accounting for 45% of all deaths among children with life-limiting conditions in England (Fraser et al., 2020a). Boys have a significantly higher prevalence of life-limiting conditions than girls, as shown by prevalence figures from England and Scotland, in addition to a recent study conducted in South Korea (Fraser et al., 2020a, Kim et al., 2020, Public Health Scotland, 2020). Data from England and Scotland have also shown that children and young people of South Asian ethnicity, particularly those from Pakistani backgrounds, have the highest prevalence of life-limiting conditions (Fraser et al., 2020a, Fraser et al., 2012, Public Health Scotland, 2020). Furthermore, the prevalence of life-limiting conditions is higher in children and young people living in more deprived areas (Fraser et al., 2020a, Public Health Scotland, 2020).

1.2 The Mental Health of Children and Young People

The WHO (World Health Organization, 2018) defines mental health as:

a state of well-being in which an individual realizes his or her own abilities, can cope with the normal stresses of life, can work productively and is able to make a contribution to his or her community.

Mental health conditions, therefore, can be defined as conditions which involve changes in an individual's thinking, emotions or behaviour which cause significant distress or impairment of functioning (American Psychiatric Association, 2018, NHS Digital, 2018b).

Mental health conditions are the leading cause of global disability (Whiteford et al., 2013). Childhood and adolescence represents a particularly high-risk period for the development of mental health conditions, which affect 10 to 20% of children and adolescents worldwide (Kieling et al., 2011). The potential impacts of mental health conditions in children and young people are wide-ranging, including impairments in life satisfaction, family functioning, social functioning, and academic performance (Agnafors, Barmark and Sydsjö, 2020, Swan and Kendall, 2016, Verboom et al., 2014). Importantly, these conditions can persist long into adulthood; 75% of long-term mental health conditions experienced by adults emerge before the age of 24 years (Jones, 2013, Kessler et al., 2005, Lahey et al., 2014). In addition to the disease burden faced by the individual and the associated increased mortality risk, the presence of mental health conditions also incurs great economic costs to the individual and wider society (Knapp et al., 2016, Walker, McGee and Druss, 2015, Whiteford et al., 2013). For example, young people with a mental health condition are significantly less likely to be in employment, education or training, and significantly more likely to be on welfare benefits (Knapp et al., 2016). Therefore, the prevention and treatment of these conditions, beginning in childhood, is both a moral and economic necessity for the individual and society as a whole (Knapp et al., 2016).

This thesis focuses on anxiety and depression, both of which are common among children and young people and rank in the top ten causes of global disability (NHS Digital, 2018b, World Health Organization, 2017).

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1.2.1 Anxiety and Depression

The two main classification systems used by healthcare professionals to diagnose anxiety and depression are the International Classification of Diseases (ICD), and the Diagnostic and Statistical Manual of Mental Disorders (DSM). An understanding of both classification systems is important for this thesis, which includes reviews of international literature. The International Classification of Diseases (ICD) is used in numerous countries, including the UK, whereas the Diagnostic and Statistical Manual of Mental Disorders (DSM) is primarily used in the US. The Diagnostic and Statistical Manual of Mental Disorders (DSM) offers a definition common to all anxiety disorders, whereby these disorders involve "excessive fear and anxiety and related behavioural disturbances" and "differ from developmentally normative fear or anxiety by being excessive or persisting beyond developmentally appropriate periods" (American Psychiatric Association, 2013, p.189). Although both classification systems define each specific type of anxiety disorder, the International Classification of Diseases (ICD) also differentiates between two categories of anxiety disorders. These categories include "Phobic anxiety disorders", such as agoraphobia and social phobias, in which anxiety manifests in particular well-defined situations, and "Other anxiety disorders", such as generalised anxiety disorder, in which anxiety is persistent and not restricted to particular environmental situations (World Health Organization, 2019). Another difference between the two classification systems is the required time period that symptoms must have been present in order for a diagnosis of anxiety to be made. Whilst no such time period is defined in the International Classification of Diseases (ICD), according to the Diagnostic and Statistical Manual of Mental Disorders (DSM), in the case of most anxiety disorders, anxiety symptoms must have been present for at least six months in order for a diagnosis to be given (American Psychiatric Association, 2013).

The Diagnostic and Statistical Manual of Mental Disorders (DSM) defines depressive disorders as disorders characterised by *"the presence of sad, empty, or irritable mood, accompanied by somatic and cognitive changes that significantly affect the individual's capacity to function"* (American Psychiatric Association, 2013, p.155). The International Classification of Diseases (ICD) characterises "Depressive episodes", which can range from mild to severe, as episodes which include symptoms such as low mood, reduced

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capacity for enjoyment, interest and concentration, reduced energy and activity, and disturbed sleep (World Health Organization, 2019). Repeated episodes of depression are defined in the International Classification of Diseases (ICD) as "Recurrent depressive disorder". The Diagnostic and Statistical Manual of Mental Disorders (DSM), however, uses the umbrella term "Major depressive disorder" to refer to all single and recurrent episodes of depression, regardless of severity (American Psychiatric Association, 2013).

Symptoms of both anxiety and depression can co-occur in children and young people, with comorbidity estimates of at least 15% (Cummings, Caporino and Kendall, 2014, Garber and Weersing, 2010). This is recognised by the International Classification of Diseases (ICD) using the term "mixed anxiety and depressive disorder". As the definitions for anxiety and depression in the International Classification of Diseases (ICD) and Diagnostic and Statistical Manual of Mental Disorders (DSM) are not specific to children, diagnosing clinicians must pay particular consideration to the developmental stage of the child and to what degree their emotional state aligns with this (American Psychiatric Association, 2013, World Health Organization, 1992).

1.2.2 Epidemiology of Anxiety and Depression

Studies of the epidemiology of anxiety and depression among children and young people in both the UK and internationally have consistently shown that the prevalence of anxiety is higher than the prevalence of depression (Ghandour et al., 2019, NHS Digital, 2018b, Polanczyk et al., 2015). A meta-analysis of 41 studies assessing anxiety and depression prevalence in children and young people aged 4 to 18 years from 27 countries, covering every world region, found the pooled prevalence of anxiety to be 6.5% (95% CI: 4.7%-9.1%), whilst the pooled prevalence of depression was 2.6% (95% CI: 1.7%-3.9%) (Polanczyk et al., 2015). These figures are also similar to the most up-to-date epidemiological data from England regarding the prevalence of anxiety and depression among 5 to 19 year olds, which come from the national 2017 Mental Health of Children and Young People Survey (NHS Digital, 2018a). This survey reported the prevalence of anxiety to be 7.2% (95% CI: 6.6%-7.9%) and the prevalence of depression to be 2.1% (95% CI: 1.7%-2.5%). The 2016 US National Survey of Children's Health (NSCH), which included 3 to 17 year olds also reported similar prevalence estimates; 7.1% for anxiety and 3.2% for depression (Ghandour et al., 2019). Both

surveys found substantial differences in anxiety and depression prevalence across different age groups, whereby prevalence increased with age. For example, the English 2017 Mental Health of Children and Young People Survey reported anxiety prevalence to be 3.9% in 5 to 10 year olds, 7.9% in 11 to 16 year olds, and 13.1% in 17 to 19 year olds (NHS Digital, 2018a). Data from this survey also found that depression prevalence increased from 0.3% in 5 to 10 year olds to 4.8% in 17 to 19 year olds (NHS Digital, 2018a).

Epidemiological data have shown an increase in the prevalence of anxiety and/or depression among children and young people in the last few decades (Bitsko et al., 2018, Bor et al., 2014, Mojtabai, Olfson and Han, 2016, NHS Digital, 2018c). However, it is unclear whether this reflects a true increase in the prevalence of these conditions or whether a greater understanding and awareness of these mental health conditions has increased the numbers of children and young people who report symptoms of anxiety or depression (Bor et al., 2014).

1.2.3 Recognition and Diagnosis of Anxiety and Depression in Children and Young People

In order for a diagnosis of anxiety or depression to be made these mental health symptoms must first be recognised. The recognition of such symptoms can involve multiple individuals such as family members, teachers, and the young person themselves. The next step towards a diagnosis is the involvement of a medical professional; in the UK this usually means visiting a GP (O'Brien et al., 2017). Finally, the GP must assess these symptoms and either give the appropriate diagnosis and treatment or provide a referral to more specialist psychological support. However, at each of these stages, challenges can be present, the most common of which have been identified by various systematic reviews.

A systematic review of the key barriers which can prevent parents from accessing psychological treatment for their child or young person reported that a parent's lack of knowledge or understanding of their child's symptoms, their severity or associated impacts can all act as barriers to seeking help (Reardon et al., 2017). Other barriers include a parent's lack of knowledge or understanding of where or how to access help for their child, the stigma that can be associated with mental health and mental health services, as well as potential language or cultural barriers (Reardon et al., 2017). However, the recognition of anxiety or depressive symptoms by other family members, friends or teachers in schools can aid in the process of seeking mental health support (Reardon et al., 2017, Splett et al., 2019). Children and young people themselves can be reluctant to seek support, however, which can act as a further barrier to this process (Reardon et al., 2017). A recent systematic review identified the most common reasons for children and young people not wanting to seek psychological support, which included perceived stigma and embarrassment, confidentiality concerns, and doubts regarding the effectiveness of treatment (Radez et al., 2020).

GPs can also face challenges when attempting to diagnose and manage anxiety and depression in children and young people. These include a perceived lack of mental health training and knowledge, in addition to a lack of tools necessary to diagnose these mental health conditions (O'Brien et al., 2016). The National Institute for Health and Care Excellence in England and Wales (NICE) provides guidelines for the identification of mental health conditions in children and young people. However, aside from social anxiety disorders, for which detailed assessment recommendations are provided, no specific guidance for the detection of other anxiety disorders in children and young people is given (National Institute for Health and Care Excellence (NICE), 2013, 2014b). Similarly, no guidance is available regarding which screening tools are recommended for the assessment of depression in children and young people (National Institute for Health and Care Excellence (NICE), 2019a).

1.2.4 Risk Factors for Anxiety and Depression in Children and Young People

The development of anxiety and depression is influenced by various interdependent factors, including age, sex, parental mental health conditions, ethnicity, socioeconomic status, adverse childhood experiences, coping style and childhood temperament. These universal risk factors will be discussed in turn before considering risk factors specifically relevant to children and young people with chronic or life-limiting conditions.

The prevalence of anxiety and depression increases as children get older. For example, the 2017 English Mental Health of Children and Young People Survey found that the

prevalence of anxiety among 17 to 19 year olds (13.1%) was over three times higher than that observed among 5 to 10 year olds (3.9%). Similarly, the prevalence of depression increased from 0.3% in 5 to 10 year olds to 4.8% in 17 to 19 year olds (NHS Digital, 2018a). Overall, girls are at higher risk of experiencing anxiety or depression than boys, as shown by prevalence figures from the aforementioned survey which reported that 10.0% of girls experienced either anxiety or depression compared to 6.2% of boys. However, the effect of sex is moderated by age. Among children aged 5 to 10 years old, the prevalence of anxiety and depression is marginally higher in boys compared to girls. Above the age of 10, however, girls are more likely to experience anxiety or depression than boys, and by the age of 17 to 19 years, the prevalence of anxiety or depression is three times higher in girls (22.4%) compared to boys (7.9%) (NHS Digital, 2018a).

The presence of parental mental health conditions is another risk factor for anxiety and depression in children and young people, as shown by several meta-analyses (Goodman et al., 2011, Lawrence, Murayama and Creswell, 2019, Micco et al., 2009, Rasic et al., 2014). For example, a meta-analysis of 33 studies reported that offspring of parents with a severe mental illness (schizophrenia, bipolar disorder or major depressive disorder) had approximately double the risk of developing anxiety or depression compared to offspring of parents without a mental health condition (Rasic et al., 2014). Similarly, the risk of children and young people developing anxiety or depression was markedly increased if their parents had anxiety, as shown by two meta-analyses (Lawrence, Murayama and Creswell, 2019, Micco et al., 2009).

The prevalence of anxiety and depression has also been found to differ according to ethnicity. For example, the aforementioned English survey conducted in 2017 reported the prevalence of anxiety in White British children (8.1%) to be more than double the prevalence observed among Asian children (3.8%) (NHS Digital, 2018a). This large difference in prevalence between White and Asian children was also found in the earlier versions of the English survey in 1999 and 2004 (NHS Digital, 2005). However, it is unknown to what extent these figures represent a true difference in prevalence as opposed to differences in the reporting of symptoms due to cultural factors such as the high levels of stigma surrounding mental health in certain communities (Sharma, Shaligram and Yoon, 2020).

Socioeconomic disadvantage is another important risk factor for the development of anxiety and depression among children and young people. In fact, systematic reviews have shown that children and young people with low socioeconomic status are two-tothree times more likely to experience anxiety or depression than those with a higher socioeconomic status (Lemstra et al., 2008, Reiss, 2013). One of these reviews also investigated the effect of age and sex on the association between socioeconomic status and anxiety/depression. Sex was not found to affect the association, however the relationship between socioeconomic disadvantage and anxiety/depression was stronger among children aged 12 and younger, compared to older children (Reiss, 2013).

Adverse childhood experiences, such as child maltreatment or bullying, also greatly increase the risk of anxiety and depression in children and young people (Mills et al., 2013, Stapinski et al., 2014, Undheim, Wallander and Sund, 2016). For example, one large cohort study found that victims of frequent bullying had more than twice the risk of developing anxiety (Stapinski et al., 2014). A recent study of over 39,000 children and young people from the USA found that other adverse childhood experiences, namely parental separation/divorce/death, household dysfunction, exposure to violence or economic hardship also significantly increased the risk of anxiety and depression (Elmore and Crouch, 2020).

Coping style, the strategies used by individuals when responding to and managing stress, is an important psychological factor which can increase or decrease the risk of a child or young person developing anxiety or depression (Herres, 2015). More specifically, adaptive coping styles such as acceptance can act as a protective factor against the development of anxiety or depressive symptoms in children and young people, while maladaptive styles such as avoidance can increase the risk of these symptoms, as shown by a large systematic review (Schäfer et al., 2017). Importantly, coping style can also moderate the association between adverse childhood experiences and anxiety/depression (Evans et al., 2015, Lewis, Byrd and Ollendick, 2012, Undheim, Wallander and Sund, 2016).

Childhood temperament has also been found to be associated with the subsequent development of anxiety or depression (Davis, Votruba-Drzal and Silk, 2015, Forbes et

al., 2017, Letcher et al., 2012). For example, a large cohort study measured various temperamental characteristics in children aged 4 to 5 years, and symptoms of anxiety and depression when the children were 12 to 13 years of age. The findings revealed that children who displayed higher levels of 'negative reactivity', representing the intensity of a child's response to frustration, feelings of irritability and other negative emotions, reported significantly higher levels of anxiety and depressive symptoms in adolescence. In addition, children who were less outgoing in new situations and with new people also reported higher levels of anxiety symptoms in adolescence (Forbes et al., 2017).

In addition to these universal risk factors, there are also some risk factors that are particularly pertinent to this thesis, the first of which is the presence of chronic physical conditions. The largest meta-analysis investigating anxiety in children and young people with chronic physical conditions, which included 332 studies, found that these children and young people experienced higher levels of anxiety symptoms than those without a chronic condition (Pinguart and Shen, 2011a). A separate metaanalysis of 340 studies found similar results for symptoms of depression (Pinguart and Shen, 2011b). This has been further supported by a recent systematic review of anxiety prevalence in children and young people with chronic conditions (Cobham et al., 2020). However, only five of the 53 studies included in this review were longitudinal, all of which had very small sample sizes. Therefore, the temporality of the association between the diagnosis of a chronic condition and the development of anxiety could not be ascertained. However, two large longitudinal studies have recently been conducted, one in the US (n=48,572) and one in the UK (n=14,701), both of which showed that children and young people with chronic conditions were at increased risk of anxiety and depression (Adams, Chien and Wisk, 2019, Brady, Deighton and Stansfeld, 2020). The various potential reasons for the increased prevalence of anxiety and depression among children and young people with chronic conditions will be discussed in the next section.

A second additional risk factor relevant to children and young people with life-limiting conditions is intellectual disability. This is a core component of some life-limiting conditions, particularly neurological conditions (Astrea et al., 2016, Ekmekci, 2017, Feudtner et al., 2011, Rae and O'Malley, 2016). Findings from a systematic review 24

suggested a markedly higher prevalence of mental health conditions, such as anxiety and depression, among children and young people with intellectual disability compared to those without intellectual disability (Einfeld, Ellis and Emerson, 2011). The risk may be even higher if the child or young person also has a chronic physical condition (Oeseburg et al., 2010). However, severity of the intellectual disability may affect the observed prevalence of anxiety and depression. For example, a metaanalysis of 21 studies reported that children and young people with borderline intellectual disability had a significantly higher prevalence of depression than those with moderate or severe intellectual disability (Maiano et al., 2018). This may be due to the challenge of detecting mental health conditions in individuals with severe intellectual disability, who often do not have the cognitive and communicative capacity to self-report their emotions using normative methods. This is a very underdeveloped research area, therefore the ways in which parents, researchers and clinicians can reliably identify the individual's emotional needs through behavioural and physiological indicators needs further investigation (Vos et al., 2012).

1.3 The Mental Health of Children and Young People with Life-Limiting Conditions

As previously mentioned, existing evidence indicates that the presence of a chronic physical condition increases the likelihood of children and young people experiencing mental health conditions such as depression and anxiety. It is widely accepted that this is largely due to the numerous challenges that having a chronic condition brings, which are also experienced by children and young people with life-limiting conditions. For example, children and young people with either life-limiting or chronic conditions are likely to experience unpleasant and distressing symptoms such as pain and fatigue (Abbott and Carpenter, 2014, Chong et al., 2016, Greenley et al., 2010, Hedström, Ljungman and von Essen, 2005). Treatments for both chronic and life-limiting conditions may also have negative side effects including changes in physical appearance, such as changes in weight or hair growth, highlighting the differences between them and their peers (Greenley et al., 2010, McCaffrey, 2006). This can be particularly difficult during adolescence, when individuals can feel a strong necessity to 'fit in' with peers, and their self-esteem is largely predicted by the level of peer approval that they receive (Gruenenfelder-Steiger, Harris and Fend, 2016). These feelings of being different to peers may be exacerbated in some children and young people with chronic or life-limiting conditions by frequent absences from school due to disease-related symptoms, treatment side-effects or hospitalisations (Hedström et al., 2003, Jamieson et al., 2014, Tjaden et al., 2012). Not only does this make it more difficult for friendships to be established and maintained, but it can also interfere with the child's academic progress, which may lead to feelings of frustration and embarrassment (Jamieson et al., 2014, Tjaden et al., 2012). Social isolation can also arise from children feeling different from their peers, who may not understand their disease experience (Chao et al., 2016, Knight et al., 2016). Indeed, loneliness has been found to be more commonly experienced by children and young people with chronic and life-limiting conditions compared to their 'well' peers (Maes et al., 2017).

Many chronic and life-limiting conditions necessitate complex and time-consuming disease management regimens (Bucks et al., 2009, Chao et al., 2016). The requirements of these regimens can impact how a child or young person is able to spend their free time, limiting opportunities for socialisation with friends, for example, and can interfere with the typical transition to independence and autonomy hoped for by many adolescents, as parents and carers may want or need to provide assistance by, for example, helping with chest physiotherapy or other treatment regimens (Epelman, 2013, Sawicki et al., 2015, Tjaden et al., 2012). Although some young people prefer to rely on their parents to help them manage their treatment regimens, others want to take more responsibility for their treatment and parental overprotectiveness may cause conflict in the parent-child relationship (Epelman, 2013, Jamieson et al., 2014, Tjaden et al., 2012). The reduced physical functioning associated with some conditions, such as cerebral palsy, may mean that children and young people are reliant on others for daily activities such as self-care and mobility which can lead to feelings of frustration and isolation (Lindsay, 2016).

Illness uncertainty is another major challenge experienced by children and young people with life-limiting or chronic conditions due to uncertainty surrounding the prognosis, treatment and the unpredictable nature of many of these conditions (Fortier et al., 2013, Knight et al., 2016). This uncertainty can also lead to feelings of worry and insecurity about career opportunities and the potential impact of their condition on future romantic relationships and childbearing (Chao et al., 2016, Chong et al., 2016, Knight et al., 2016, Tunnicliffe et al., 2016).

Despite the existence of illness uncertainty in all of these conditions, a crucial difference in the experience of living with a life-limiting condition compared to a chronic condition is that children and young people with life-limiting conditions may be aware of the possibility or certainty of premature death. The fear of death reported by many children and young people with life-limiting conditions not only encompasses concerns of whether their death will involve pain and how long the suffering will last, but also existential worries such as questioning whether they will be remembered and what the meaning of their life has been (Garvie et al., 2012, Higham, Ahmed and Ahmed, 2013, Namisango et al., 2019). Similarly, the death of a friend with a similar condition can be particularly hard for these children and young people as it can remind them of their condition and shortened life-span (Abbott and Carpenter, 2014, Beerbower, Winters and Kondrat, 2018).

The presence of these additional challenges suggests that children and young people with life-limiting conditions may be even more vulnerable to anxiety and depression than those with chronic conditions. Indeed, the necessity of research examining the epidemiology of mental health conditions in children and young people with lifelimiting conditions has been identified in England and Wales by the National Institute for Health and Care Excellence (NICE) recommendations for research regarding end of life care for infants, children and young people with life-limiting conditions (National Institute for Health and Care Excellence (NICE), 2019b). These recommendations highlight the need for research to enable a more comprehensive understanding of psychological issues in this population. The importance of this research to children and young people with life-limiting conditions, their families and professionals has also been reported in various research prioritisation exercises relating to the care of children and young people with life-limiting conditions (Booth et al., 2018, James Lind Alliance, 2020a, b).

Previous research investigating anxiety and depression in children and young people with life-limiting conditions is limited by the fact that studies have only focused on specific conditions, such as cystic fibrosis (Quittner et al., 2014) or cancer (Bemis et al., 2015). Therefore, the epidemiology of anxiety and depression across the whole patient population is currently unknown. As paediatric palliative care services can support children and young people with any life-limiting condition, an understanding of the prevalence, incidence and risk factors for anxiety and depression among children and young people with life-limiting conditions as a whole population is crucial in order to inform service development and improvement (Hain et al., 2013).

1.4 Summary

The prevalence of children and young people with life-limiting conditions is increasing as individuals are living longer with these conditions. Mental health conditions, particularly anxiety and depression, are common among children and young people. Many interrelated factors are known to increase the risk of anxiety and depression in this age group, one of which is the presence of a chronic physical illness. This is likely to be due to several challenges that children and young people with a chronic condition may experience, such as distressing symptoms, treatment side-effects and complex treatment regimes, which can result in frequent absences from school. Consequently, children and young people with chronic conditions may find it difficult to maintain friendships, leading to feelings of frustration and isolation. Children and young people with life-limiting conditions can face all of these challenges, often to a greater degree, as well as living with the possibility of premature death. This has the potential to make them even more vulnerable to anxiety and depression. Previous research exploring anxiety and depression in this population has been limited to a small number of life-limiting conditions. Therefore, the epidemiology of anxiety and depression across the whole patient population is currently unknown, an understanding of which is important in order to inform the development of psychological care and preventative strategies for this population group.

1.5 Aims & Objectives

The aims of this thesis are as follows:

• To investigate the incidence and prevalence of anxiety and depression in children and young people with life-limiting conditions

• To examine what factors are associated with the incidence and prevalence of anxiety and depression in children and young people with life-limiting conditions

In order for this thesis to achieve these two aims, the following objectives will be met:

- To conduct a systematic review and meta-analysis to estimate the prevalence and incidence of anxiety and depression in children and young people with lifelimiting conditions from previously published literature (Chapter 2)
- To conduct a systematic review to identify the factors that have been found to be associated with anxiety and depressive symptoms among children and young people with life-limiting conditions in previously published literature (Chapter 3)
- 3. To conduct a comparative cohort study using primary and secondary healthcare data from England to analyse the incidence of anxiety and depression in children and young people with life-limiting conditions and compare this to the incidence among those with chronic conditions and those with no long-term conditions (Chapters 4 and 5)
- 4. To conduct a comparative cohort study using primary and secondary healthcare data from England to examine what factors are associated with the incidence of anxiety and depression in children and young people with lifelimiting conditions, and to explore whether these associations differ from those found among children and young people with chronic conditions and those with no long-term conditions (Chapters 4 and 5)

<u>Chapter 2: Prevalence and Incidence of Anxiety and Depression Among</u> <u>Children and Young People with Life-Limiting Conditions: A Systematic</u> <u>Review and Meta-Analysis</u>

2.1 Introduction

This chapter describes the research undertaken to meet the first objective outlined in Chapter 1:

• To conduct a systematic review and meta-analysis to estimate the prevalence and incidence of anxiety and depression in children and young people with lifelimiting conditions from previously published literature

The review and meta-analysis described in this chapter was published in JAMA Pediatrics on 8th July, 2019 (Appendix 1) (Barker et al., 2019). The only modification to the chapter carried out after the publication of the meta-analysis was the removal of one study of depression prevalence (Andrinopoulos et al., 2011), as it was found that some of the participants included in this study were also included in a later study (Martinez et al., 2012).

2.2 Methods

This systematic review and meta-analysis is reported following the standards of Preferred Reporting Items for Systematic Reviews and Meta-Analyses (PRISMA) and Meta-analysis of Observational Studies in Epidemiology (MOOSE) guidelines (Moher et al., 2010, Stroup et al., 2000). The systematic review protocol was registered on the PROSPERO database on 14th February 2018, prior to review initiation (identifier: CRD42018088795).

2.2.1 Search Strategy

The electronic databases EMBASE, Medline and PsycINFO were searched on 15th January 2018, identifying papers published from 1st January 2000 onwards. The search consisted of the following concepts: (children/adolescents/young adults) AND (anxiety/depression) AND (life-limiting conditions). All life-limiting condition diagnoses, as defined in the directory produced by Hain et al. in 2013, were included as search terms, using both subject headings and free text (Hain et al., 2013). The search strategy for Medline is displayed in Appendix 2. Reference lists of identified systematic reviews and all included articles were searched for additional eligible papers. Grey literature was reviewed using an advanced Google search, utilising terms relating to the three concepts included in the database search strategy:

(children/adolescents/young adults) AND (anxiety/depression) AND (life-limiting conditions). The first 50 PDFs identified by this search were screened for eligibility.

Studies were included if they:

- provided primary data of anxiety or depression prevalence or incidence, measured using validated assessment tools or coded medical report data
- 2. included participants between the ages of 5-25 years
- 3. included participants diagnosed with a life-limiting condition
- 4. were published in English or subsequently translated into English
- were conducted in a country within the Organisation for Economic Cooperation and Development (OECD)¹

The following types of study designs were excluded:

- case studies, case series, intervention studies, qualitative studies and systematic reviews
- studies which included participants without life-limiting conditions, unless data was reported separately
- 3. studies of participants successfully treated for cancer

Studies investigating anxiety and depression in children and young people who were survivors of cancer were excluded, as set out in the exclusion criteria, as these individuals no longer face the likelihood of death at a young age, and therefore are not comparable to children and young people with existing life-limiting conditions.

2.2.2 Study Selection

The titles and abstracts of all studies were screened by the primary reviewer (MMB), with 20% also independently screened by a second reviewer (LR). Any discrepancies were resolved through discussion. Full texts of all studies deemed potentially eligible were retrieved and reviewed for eligibility by MMB, with the second reviewer independently reviewing 20%. For papers where key outcome data was missing, study

¹ OECD countries at time of search: Australia, Austria, Belgium, Canada, Chile, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Israel, Italy, Japan, Korea, Latvia, Lithuania, Luxembourg, Mexico, Netherlands, New Zealand, Norway, Poland, Portugal, Slovak Republic, Slovenia, Spain, Sweden, Switzerland, Turkey, United Kingdom, United States

authors were contacted. In the case of authors not replying to this request, the paper was not included. If more than one paper included the same study participants, the most recently published paper was kept in the review. Studies investigating the prevalence of anxiety or depression among children and young people with DiGeorge Syndrome were excluded as anxiety and depression are common components of this condition (Baker and Skuse, 2005).

2.2.3 Data Extraction

Data was extracted by MMB, using an extraction form piloted on three of the eligible studies (see Appendix 3 for data extraction form). Key study characteristics including country of study, study design, recruitment strategy, eligibility criteria, anxiety/depression assessment tool, age and sex were extracted. The number of participants fulfilling the study criteria for anxiety or depression was recorded, along with the study sample size, in order for the calculation of prevalence. For the calculation of incidence, the number of new cases was identified, and the person-time used was extracted.

2.2.4 Risk of Bias Assessment

The risk of bias of included studies was assessed using a tool specifically designed for assessing bias in prevalence studies (Hoy et al., 2012). This tool consists of ten questions, four of which assess external validity, focusing on aspects such as the study's sampling frame and sample selection. The second section of the tool, consisting of six questions, assesses internal validity, including the consistency of data collection methods and the reliability and validity of the study instrument used for measuring prevalence. All questions had two response options: 'low' or 'high' risk of bias. If a study did not report the information necessary to answer a particular question, then the study was assigned 'high' risk of bias for that question. Each study was then assigned a total score out of ten, corresponding to the number of 'high' risk of bias responses. Based on this score, each study was subsequently categorised as either *high* (total score \geq 7), *moderate* (total score 4-6), or *low* (total score \leq 3), as per previously published systematic reviews (Madigan et al., 2018, Taylor et al., 2014, Thomas et al., 2015).

2.2.5 Meta-Analyses

Meta-analyses were conducted to generate pooled anxiety and depression prevalence/incidence, using the *metaprop* command in STATA. Random effects metaanalyses were used due to high expected heterogeneity between studies. To stabilise variances, study data was first transformed using the double arcsine transformation (Barendregt et al., 2013). Study-specific confidence intervals were generated using the exact method. Heterogeneity was analysed using the l² statistic. When the results of a meta-analysis show heterogeneity, it is important to identify covariates that may explain this heterogeneity (Barendregt et al., 2013). This was first explored by conducting sub-group analysis, in which studies are stratified according to specific covariates that may be related to anxiety/depression prevalence, and each sub-group is analysed separately, in order to observe how the pooled prevalence differs in each stratified group. The following categorical covariates were used for sub-group analysis:

- life-limiting condition diagnostic group (cancer; cystic fibrosis; HIV; thalassemia; neurological conditions; chronic kidney disease)
- study location (Europe; USA)
- assessment tool (questionnaire; diagnostic interview)
- risk of bias (low; moderate)

Heterogeneity was further explored using univariate meta-regression models, whereby each covariate was entered as the independent variable, with the pooled prevalence as the dependent variable, in order to assess the association between the covariate and the pooled estimate. Models were generated for each of the aforementioned categorical study characteristics, in addition to the following quantitative study characteristics:

- sample size
- mean age
- percentage of female participants in the sample

Publication bias was assessed using funnel plots and Egger's test of bias. A significance level of *p*<0.05 was used throughout. STATA version 15.1 (StataCorp., College Station, TX, USA) was used for all analysis.

2.3 Results

The electronic search identified 21,305 articles, whilst four additional articles were identified through other sources. 14,866 of these articles were non-duplicates, as shown in the PRISMA flow diagram (Figure 2). Title and abstract screening resulted in the exclusion of 14,160 articles. The full texts of the remaining 706 articles were assessed for eligibility, with the exclusion of 670 studies. The most common reasons for exclusion of articles were:

- study population not in eligible range (n=248),
- no incidence/prevalence data provided (n=78),
- article not available in English (n=36)
- article format not eligible (e.g. conference abstract, dissertation etc.) (n=257)

The authors of three articles were contacted as the prevalence of anxiety in their articles included cases of Obsessive-Compulsive Disorder (OCD). OCD was not included as an anxiety disorder in this review, and overall thesis, as although anxiety can co-occur with OCD, obsessions and compulsions are the main feature of this condition (Stein et al., 2010). Accordingly, OCD is categorised separately from anxiety disorders in the International Classification of Diseases (World Health Organization, 2019). Therefore, studies that included cases of OCD when calculating the prevalence of anxiety could not be included in this review unless the author could provide the prevalence of anxiety without the inclusion of OCD cases. One of the three authors replied and their article was subsequently included (Adanır et al., 2017). The other two articles were excluded as no reply was provided; the reason for exclusion of these articles is displayed as 'no incidence/prevalence data provided' in Figure 2. This resulted in the inclusion of 36 articles, 19 reporting anxiety prevalence and 35 reporting depression prevalence. None of the included articles reported the incidence of anxiety or depression.

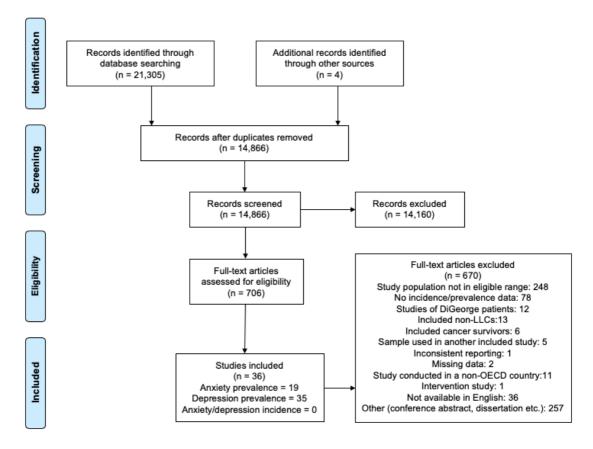


Figure 2. PRISMA Flow Diagram showing the inclusion of 36 studies from the 21,309 identified

2.3.1 Study Characteristics

The key characteristics of the 36 included studies are summarised in Table 1. A total of 5,876 participants were included. Study sample sizes ranged from 20-2,032 participants, with a median of 48 participants (Interquartile Range (IQR): 37.0-67.5). The age range of participants was reported in 30 studies and ranged from 6 to 25 years. The mean participant age, provided in 24 studies, was 15.4 years. The proportion of females in the study sample was reported in 31 studies, with a mean of 43.3%.

A total of 17 studies (47.2%) were conducted in the USA, and 15 (41.7%) were conducted in Europe, including one in the UK. In addition, one study was conducted in Canada, one study was conducted in Mexico, and two studies (5.6%) were multinational; one of which was conducted in European countries and the USA, and one of which was conducted in European countries only.

Of the 36 included studies, six (16.7%) included children and young people with cancer, eight (22.2%) included children and young people with cystic fibrosis and a

further eight studies (22.2%) assessed children and young people with HIV. Children and young people with thalassemia were included in four studies (11.1%), while three studies (8.3%) included children and young people with chronic kidney disease. Seven studies (19.4%) assessed children and young people with neurological conditions; four of which included children and young people with paediatric multiple sclerosis. One of these studies was a multi-condition study, also assessing children and young people with acute disseminated encephalomyelitis (Parrish et al., 2013). Of the remaining three neurological studies, one included children and young people with spinal muscular atrophy, one included those with Duchenne muscular dystrophy, and one included those with juvenile neuronal ceroid lipofuscinosis.

| Source | Location | Total Participants | Age, Mean (SD) [Range] | No. of Female Participants/No. of Total Participants (%) | Year of Data Collection | Anxiety Prevalence Reported | Depression Prevalence Reported | Risk of Bias |
|--|----------------------------------|-----------------------|------------------------|--|-------------------------------|-----------------------------------|--------------------------------------|--------------|
| | | | Cance | r | | | | |
| Hedström, Ljungman and von Essen, 2005 | Sweden | 56 | NR (NR) [13-19] | 24/56 (43) | 1999-2003 | \checkmark | ~ | Low |
| Matziou et al., 2008 | Greece | 80 | 11.2 (NR) [6-16] | 35/80 (44) | 2002-2005 | × | ✓ | Low |
| Kersun et al., 2009 | USA | 41 | 15.2 (2.2) [12-19] | 18/41 (44) | NR | ✓ | ✓ | Low |
| Durualp and Altay, 2012 | Turkey | 20 | NR (NR) [6-12] | 10/20 (50) | 2010-2011 | × | ✓ | Moderate |
| Bemis et al., 2015 | USA | 151 | 13.5 (2.4) [10-17] | 77/151 (51) | NR | × | ✓ | Moderate |
| Rivas-Molina et al., 2015 | Mexico | 46 | NR (NR) [7-15] | 14/46 (30) | 2012 | × | ✓ | Moderate |
| | | | Cystic Fib | rosis | | | • | |
| Casier et al., 2008 | Belgium | 34 | 17.3 (3.1 [NR] | 18/34 (53) | NR | ✓ | ✓ | Low |
| White et al., 2009 | USA | 53 | 12.4 (2.6) [9-17] | 31/53 (58) | 1995-1996 | \checkmark | ✓ | Moderate |
| Smith et al., 2010 | USA | 39 | 12.0 (3.1) [7-17] | 20/39 (51) | NR | × | ✓ | Low |
| Casier et al., 2011 | Belgium | 40 | 18.4 (2.9) [NR] | 17/40 (43) | NR | \checkmark | ✓ | Low |
| Modi et al., 2011 | USA | 59 | 15.8 (2.5) [NR] | 27/59 (46) | 2006-2008 | \checkmark | ✓ | Low |
| Oliver et al., 2014 | USA | 72 | 19.1 (3.3) [14-25] | 36/72 (50) | 2010-2011 | \checkmark | ✓ | Low |
| Quittner et al., 2014 | Multi-national (Europe & USA) | 1286 | 14.8 (1.7) [NR] | 669/1286 (52) | NR | \checkmark | ~ | Low |
| Askew et al., 2017 | UK | 45 | 20.7 (NR) [17-24] | 18/45 (40) | NR | \checkmark | ✓ | Low |
| | | | HIV | | | | | |
| Pao et al., 2000 | USA | 34 | 18.5 (NR) [16-21] | 27/34 (79) | NR | × | \checkmark | Moderate |
| Murphy et al., 2001 | USA | 213 | NR (NR) [12-18] | NR | 1999-2000 | × | \checkmark | Low |
| Elliott-DeSorbo, Martin and Wolters, 2009 | USA | 55 | 12.9 (NR) [8-17] | 25/55 (45) | 2001-2005 | \checkmark | ~ | Low |
| Mellins et al., 2009 | USA | 206 | 12.3 (2.2) [NR] | 105/206 (51) | NR | \checkmark | ✓ | Low |
| Martinez et al., 2012 | USA | 60 | 20.6 (2.0) [15-24] | 60/60 (100) | 2003-2005 | × | ✓ | Low |
| Nachman et al., 2012 | USA | 313 | NR (NR) [6-17] | NR | 2007 | \checkmark | ✓ | Low |
| Salama et al., 2013 | USA | 59 | 18.8 (NR) [14-23] | 36/59 (61) | 2002-2003 | × | ✓ | Low |
| Brown et al., 2015 | USA | 2032 | 20.3 (2.1) [NR] | 662/2032 (33) | 2009-2012 | \checkmark | ✓ | Low |

Table 1. Key characteristics of the 36 studies included in the meta-analyses of anxiety and depression prevalence

| Source | Location | Total Participants | Age, Mean (SD) [Range] | No. of Female Participants/No. of Total Participants (%) | Year of Data Collection | Anxiety Prevalence Reported | Depression Prevalence Reported | Risk of Bias |
|-------------------------------------|----------------------------|-----------------------|------------------------|--|-------------------------------|-----------------------------------|--------------------------------------|--------------|
| | | | Thalasse | mia | | | | |
| Sadowski et al., 2002 | Multi-national (Europe) | 38 | NR (NR) [6-18] | NR | 1994-1996 | \checkmark | \checkmark | Low |
| Aydinok et al., 2005 | Turkey | 38 | 12.2 (3.3) [6-18] | 20/38 (53) | NR | \checkmark | \checkmark | Moderate |
| Cakaloz et al., 2009 | Turkey | 20 | 11.1 (3.0) [7-18] | 13/20 (65) | NR | \checkmark | ✓ | Moderate |
| Adanır et al., 2017 | Turkey | 24 | 13.6 (2.1) [12-18] | 11/24 (46) | NR | \checkmark | ✓ | Moderate |
| | | | Neurological C | Conditions | | | | |
| Laufersweiler-Plass et al., 2003 | Germany | 96 | 11.2 (NR) [6-18] | 49/96 (51) | NR | \checkmark | \checkmark | Moderate |
| Bäckman et al., 2005 | Finland | 27 | NR (NR) [9-21] | 14/27 (52) | NR | × | √ | Moderate |
| Amato et al., 2008 | Italy | 63 | 15.3 (2.5) [8-17] | 33/63 (52) | NR | × | ✓ | Low |
| Amato et al., 2010 | Italy | 39 | NR (NR) [12-20] | NR | NR | \checkmark | × | Low |
| Till et al., 2012 | Canada | 31 | 16.1 (NR) [12-19] | 23/31 (74) | NR | × | ✓ | Moderate |
| Elsenbruch et al., 2013 | Germany | 50 | 15.4 (0.6) [8-23] | 0/50 (0) | 2009-2011 | × | ✓ | Moderate |
| Parrish et al., 2013 | USA | 36 | NR (NR) [NR] | NR | NR | × | ✓ | Moderate |
| | | | Chronic Kidne | y Disease | | | | |
| Kogon et al., 2013 | USA | 44 | NR (NR) [7-18] | 13/44 (30) | 2011-2012 | × | ✓ | Moderate |
| Kogon et al., 2016 | USA | 344 | NR (NR) [6-17] | 142/344 (41) | 2005-2008 | × | √ | Low |
| Kilicoglu et al., 2016 | Turkey | 32 | NR (NR) [8-18] | 19/32 (59) | 2014 | × | ✓ | Low |

NR: Not reported

2.3.2 Risk of Bias Assessment

No studies were deemed to be at high risk of bias, 14 studies (38.9%) were at moderate risk of bias, and 22 studies (61.1%) were at low risk of bias (Table 2). Most studies were scored as 'low' risk of bias for questions relating to internal validity. Importantly, all of the studies used acceptable case definitions and valid and reliable prevalence measurement tools, with appropriate numerators and denominators. In addition, of the 36 included studies, 33 studies (91.7%) used the same mode of data collection for all subjects, and 33 studies (91.7%) collected data from the subjects directly. However, many studies were scored as 'high' risk of bias for questions relating to external validity. For example, of the 36 included studies, only 16 (44.4%) used a target population which was representative of the national population regarding relevant variables, whilst 21 (58.3%) used a sampling frame which was a true or close representation of the target population. Finally, only one study was deemed to have a low likelihood of non-response bias.

| Author & Duklisstice Date | External Validity Questions | | | | | | | Internal Validity Questions | | | Total | Overall Risk |
|---|-----------------------------|------|------|----------|---------|-----|-----|-----------------------------|------|-----|-------|--------------|
| Author & Publication Date | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | Score | of Bias |
| | | 1 | | Can | cer | | 1 | | | | | |
| Hedström, Ljungman and von Essen, 2005 | Low | Low | Low | Low | Low | Low | Low | Low | Low | Low | 0 | Low |
| Matziou et al., 2008 | High | Low | High | High | Low | Low | Low | Low | Low | Low | 3 | Low |
| Kersun et al., 2009 | High | High | Low | High | Low | Low | Low | Low | Low | Low | 3 | Low |
| Durualp and Altay, 2012 | High | High | High | High | Low | Low | Low | Low | Low | Low | 4 | Moderate |
| Bemis et al., 2015 | High | Low | High | High | Low | Low | Low | Low | High | Low | 4 | Moderate |
| Rivas-Molina et al., 2015 | High | High | High | High | Low | Low | Low | Low | Low | Low | 4 | Moderate |
| | | | | Cystic F | ibrosis | | | | | | | |
| Casier et al., 2008 | High | High | Low | High | Low | Low | Low | Low | Low | Low | 3 | Low |
| White et al., 2009 | High | Low | High | High | Low | Low | Low | Low | High | Low | 4 | Moderate |
| Smith et al., 2010 | High | High | Low | High | Low | Low | Low | Low | Low | Low | 3 | Low |
| Casier et al., 2011 | Low | High | Low | High | Low | Low | Low | Low | Low | Low | 2 | Low |
| Modi et al., 2011 | High | Low | High | High | Low | Low | Low | Low | Low | Low | 3 | Low |
| Oliver et al., 2014 | High | Low | High | High | Low | Low | Low | Low | Low | Low | 3 | Low |
| Quittner et al., 2014 | Low | Low | High | High | Low | Low | Low | High | Low | Low | 3 | Low |
| Askew et al., 2017 | High | High | Low | High | Low | Low | Low | Low | Low | Low | 3 | Low |
| | | | | н | V | | | | | | | |
| Pao et al., 2000 | High | High | High | High | Low | Low | Low | Low | High | Low | 5 | Moderate |
| Murphy et al., 2001 | Low | Low | High | High | Low | Low | Low | Low | Low | Low | 2 | Low |
| Elliott-DeSorbo, Martin and Wolters, 2009 | Low | Low | High | High | Low | Low | Low | Low | High | Low | 3 | Low |
| Mellins et al., 2009 | Low | Low | Low | High | High | Low | Low | High | Low | Low | 3 | Low |
| Martinez et al., 2012 | Low | Low | High | High | Low | Low | Low | Low | Low | Low | 2 | Low |
| Nachman et al., 2012 | Low | Low | High | High | Low | Low | Low | Low | High | Low | 3 | Low |
| Salama et al., 2013 | High | Low | High | High | Low | Low | Low | Low | Low | Low | 3 | Low |
| Brown et al., 2015 | Low | Low | Low | High | Low | Low | Low | Low | Low | Low | 1 | Low |

Table 2. Risk of bias assessment for the 36 studies included in the meta-analyses of anxiety and depression prevalence

| Author & Publication Date | Ext | External Validity Questions | | | | Internal Validity Questions | | | | | Total | Overall Risk |
|----------------------------------|------|-----------------------------|------|------------|-------------|-----------------------------|-----|------|------|-----|-------|--------------|
| Author & Publication Date | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | Score | of Bias |
| | | | | Thalas | semia | | | | | | | |
| Sadowski et al., 2002 | Low | High | Low | High | Low | Low | Low | Low | Low | Low | 2 | Low |
| Aydinok et al., 2005 | High | High | High | High | Low | Low | Low | Low | High | Low | 5 | Moderate |
| Cakaloz et al., 2009 | High | High | High | High | Low | Low | Low | Low | High | Low | 5 | Moderate |
| Adanir et al., 2017 | High | High | High | High | Low | Low | Low | Low | Low | Low | 4 | Moderate |
| | | | N | eurologica | l Conditior | ıs | | | | | | |
| Laufersweiler-Plass et al., 2003 | Low | Low | High | High | High | Low | Low | Low | High | Low | 4 | Moderate |
| Backman et al., 2005 | High | High | High | High | Low | Low | Low | Low | Low | Low | 4 | Moderate |
| Amato et al., 2008 | Low | Low | Low | High | Low | Low | Low | Low | Low | Low | 1 | Low |
| Amato et al., 2010 | Low | High | Low | High | Low | Low | Low | Low | Low | Low | 2 | Low |
| Till et al., 2012 | High | High | High | High | High | Low | Low | Low | High | Low | 6 | Moderate |
| Elsenbruch et al., 2013 | High | Low | Low | High | Low | Low | Low | High | High | Low | 4 | Moderate |
| Parrish et al., 2013 | High | Low | High | High | Low | Low | Low | Low | High | Low | 4 | Moderate |
| | | | C | hronic Kid | ney Diseas | e | | | | | | |
| Kogon et al., 2013 | High | High | High | High | Low | Low | Low | Low | Low | Low | 4 | Moderate |
| Kogon et al., 2016 | Low | Low | High | High | Low | Low | Low | Low | Low | Low | 2 | Low |
| Kilicoglu et al., 2016 | High | High | Low | High | Low | Low | Low | Low | Low | Low | 3 | Low |

High = high risk of bias; Low = low risk of bias

External Validity Questions:

- 1. Was the study's target population a clear representation of the national population in relation to relevant variables, e.g. age, sex, occupation?
- 2. Was the sampling frame a true or close representation of the target population?
- 3. Was some form of random selection used, OR was a census undertaken?
- 4. Was the likelihood of non-response bias minimal?

Internal Validity Questions:

- 5. Were data collected directly from the subjects (as opposed to a proxy)?
- 6. Was an acceptable case definition used in the study?
- 7. Was the study instrument that measured the parameter of interest (e.g. prevalence) shown to have reliability and validity (if necessary)?
- 8. Was the same mode of data collection used for all subjects?
- 9. Was the length of the shortest prevalence period for the parameter of interest appropriate?
- 10. Were the numerator(s) and denominator(s) for the parameter of interest appropriate?

2.3.3 Anxiety & Depression Assessment Tools

A total of 10 assessment tools were used to measure the prevalence of anxiety, whilst 15 assessment tools were used to assess depression prevalence in the included studies (Table 3). The most common assessment tool for measuring anxiety was the anxiety subscale of the Hospital Anxiety and Depression Scale (HADS), which was used in 7 of the 19 studies assessing anxiety prevalence. The Children's Depression Inventory (CDI) was the most common depression assessment tool, having been used in 9 of the 35 studies investigating depression prevalence. Parent-report measures were used in three studies (Laufersweiler-Plass et al., 2003, Mellins et al., 2009, Till et al., 2012).

Table 3. Anxiety and depression assessment tools used in the 36 included studies

| | Freque | ncy of Use |
|---|--------------------|-----------------------|
| Assessment Tool | Anxiety Studies | Depression Studies |
| Questionnaires: | | |
| Hospital Anxiety and Depression Scale (HADS) | 7 | 7 |
| The Behavior Assessment Scale for Children (BASC) (self-/parent- completed) ^b | 1 | 3 |
| Brief Symptom Inventory (BSI) | 1 | 1 |
| Beck Youth Inventory (BYI) | 1 | 3 |
| Youth Self Report (YSR) | 0 | 1 |
| The Youth's Inventory-4 | 1 | 1 |
| Children's Depression Inventory (CDI) | NA | 9 |
| The Center for Epidemiological studies Depression Scale (CES-D) | NA | 3 |
| Depression Inventory for Children and Adolescents (DIKJ) | NA | 1 |
| Diagnostic Interviews: | | |
| Kiddie Schedule for Affective Disorders and Schizophrenia (K-SADS) | 3 | 2 |
| DSM-based Psychiatric Interview | 2 | 2 |
| Structured Clinical Interview for DSM-IV Axis I Disorders (SCID) | 0 | 1 |
| Computerised Diagnostic Interview Schedule for Children (CDISC) | 1 | 1 |
| Diagnostic Interview Schedule for Children (DISC) (self- and parent- completed) ^a | 1 | 1 |
| Kinder-DIPS ^a | 1 | 1 |

^a Measures were completed by parents

^b Measure was completed by parents in one study of depression prevalence

NA: Not Applicable

2.3.4 Prevalence of Anxiety

The prevalence of anxiety was reported in 19 studies, with a total of 4,547

participants. Anxiety prevalence ranged from 3.6% (95% Confidence Interval (CI) 0.4%-

12.5%) to 58.3% (95% CI: 36.6%-77.9%). The pooled anxiety prevalence estimate from

the random-effects meta-analysis was 19.1% (95% CI: 14.1%-24.6%). The level of

heterogeneity in the analysis was high (I²=92.2%, p<0.001) (Figure 3).

| Study |
|-------|
|-------|

| CANCER | | |
|--|----------------------|--------|
| Hedstrom et al. (2005) | 0.125 (0.052, 0.241) | 5.27 |
| Kersun et al. (2009) | 0.073 (0.015, 0.199) | 4.89 |
| Subtotal $(1^2 = .%, p = .)$ | 0.102 (0.047, 0.172) | 10.16 |
| | 0.102 (0.047, 0.172) | 10.10 |
| CYSTIC FIBROSIS | | |
| Casier et al. (2008) | 0.088 (0.019, 0.237) | 4.64 |
| White et al. (2009) | 0.302 (0.183, 0.443) | 5.21 |
| Casier et al. (2011) | 0.150 (0.057, 0.298) | 4.86 |
| Modi et al. (2011) | 0.322 (0.206, 0.456) | 5.33 |
| Oliver et al. (2014) | 0.347 (0.239, 0.469) | 5.53 |
| Quittner et al. (2014) | 0.219 (0.196, 0.242) | 6.61 |
| Askew et al. (2017) | 0.156 (0.065, 0.295) | 5.01 |
| Subtotal (I ² = 64.818%, p = 0.009) | 0.228 (0.170, 0.291) | 37.19 |
| | 0.220 (0.170, 0.231) | 51.15 |
| HIV | | |
| Elliott-DeSorbo et al. (2009) | 0.036 (0.004, 0.125) | 5.25 |
| Mellins et al. (2009) | 0.490 (0.420, 0.561) | 6.23 |
| Nachman et al. (2012) | 0.102 (0.071, 0.141) | 6.38 |
| Brown et al. (2015) | 0.135 (0.120, 0.150) | 6.64 |
| Subtotal (I ^A 2 = 97.788%, p = 0.000) | 0.169 (0.054, 0.329) | 24.49 |
| | | 21.10 |
| THALASSEMIA | | |
| Sadowski et al. (2002) | 0.342 (0.196, 0.514) | 4.79 |
| Aydinok et al. (2005) | 0.053 (0.006, 0.177) | 4.79 |
| Cakaloz et al. (2009) | 0.300 (0.119, 0.543) | 3.84 |
| Adanir et al. (2017) | 0.583 (0.366, 0.779) | 4.13 |
| Subtotal (I^2 = 87.648%, p = 0.000) | 0.294 (0.088, 0.553) | 17.56 |
| | | |
| NEUROLOGICAL CONDITIONS | | |
| Laufersweiler-Plass et al. (2003) | 0.083 (0.037, 0.158) | 5.78 |
| Amato et al. (2010) | 0.103 (0.029, 0.242) | 4.83 |
| Subtotal (I^2 = .%, p = .) | 0.087 (0.044, 0.143) | 10.61 |
| | | |
| Heterogeneity between groups: p = 0.003 | | |
| Overall (I^2 = 92.235%, p = 0.000); | 0.191 (0.141, 0.246) | 100.00 |
| | | |
| | | |
| 0 .25 .5 .75 | 1 | |
| Prevalence | | |
| | | |

Figure 3. Forest plot of 19 studies included in the meta-analysis of anxiety prevalence

Although visual inspection of the funnel plot for the anxiety meta-analysis suggests the presence of publication bias, with fewer small studies reporting high anxiety prevalence, this was not found to be significant by Egger's test of bias (p=0.406) (Figure 4).

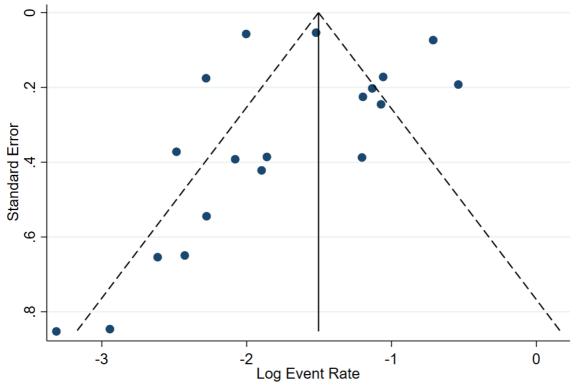


Figure 4. Funnel plot for anxiety meta-analysis, with pseudo 95% confidence limits

Sub-group analysis revealed differences in anxiety prevalence by diagnostic group. Children and young people with thalassemia were reported to have the highest pooled anxiety prevalence estimate (29.4%, 95% CI: 8.8%-55.3%), followed by children and young people with cystic fibrosis (22.8%, 95% CI: 17.1%-29.1%). The lowest pooled anxiety prevalence estimate was found for children and young people with neurological conditions (8.7%, 95% CI: 4.4%-14.3%). Pooled anxiety prevalence was also found to differ by study location; studies conducted in the USA were found to report a higher prevalence (20.8%, 95% CI: 11.3%-32.1%) than European studies (17.2%, 95% CI: 9.9%-26.0%). Differences in pooled anxiety prevalence were also found by assessment tool, with a lower prevalence reported from studies using self-/parentcompleted questionnaires (14.9%, 95% CI: 10.9%-19.4%) compared to studies utilising diagnostic interviews (28.5%, 95% CI: 13.2%-46.8%). Finally, prevalence varied by the risk of bias; studies at moderate risk of bias reported a higher prevalence (23.1%, 95% CI: 7.8%-43.0%), compared to studies at low risk of bias (18.2%, 95% CI: 12.8%-24.3%) (Table 4).

| Table 4. Sub-group a | analysis of pooled | anxiety prevalence |
|----------------------|--------------------|--------------------|
|----------------------|--------------------|--------------------|

| Subgroups | Number of Studies | Number of Participants | Pooled Anxiety Prevalence Estimate (95% CI) | l ² | p Value |
|-------------------------------------|----------------------|---------------------------|---|----------------|---------|
| Diagnostic Group | | | | | |
| Cancer | 2 | 97 | 10.2% (4.7%-17.2%) | - | - |
| Cystic fibrosis | 7 | 1,589 | 22.8% (17.1%-29.1%) | 64.8% | 0.009 |
| HIV | 4 | 2,606 | 16.9% (5.4%-32.9%) | 97.8% | <0.001 |
| Thalassemia | 4 | 120 | 29.4% (8.8%-55.3%) | 87.6% | <0.001 |
| Neurological Conditions | 2 | 135 | 8.7% (4.4%-14.3%) | - | - |
| Study Location ^a | • | | | | |
| Europe | 10 | 430 | 17.2% (9.9%-26.0%) | 78.0% | <0.001 |
| USA | 8 | 2,831 | 20.8% (11.3%-32.1%) | 95.9% | <0.001 |
| Assessment Tool | | | | | |
| Self/parent-completed questionnaire | 12 | 4,072 | 14.9% (10.9%-19.4%) | 87.0% | <0.001 |
| Diagnostic interview | 7 | 475 | 28.5% (13.2%-46.8%) | 93.0% | <0.001 |
| Risk of Bias | | | | | |
| Low | 14 | 4,316 | 18.2% (12.8%-24.3%) | 93.3% | < 0.001 |
| Moderate | 5 | 231 | 23.1% (7.8%-43.0%) | 89.2% | <0.001 |

I² statistic could not be generated for groups containing <=3 studies

^a Excluded: Multi-national studies containing sites in both Europe and the USA excluded

Meta-regression analysis showed that only the differences by assessment tool were statistically significant (β =0.15, 95% CI: 0.01-0.30, *p*=0.04). Pooled anxiety prevalence was also not significantly associated with sample size, mean age or percentage of females in the sample (Table 5).

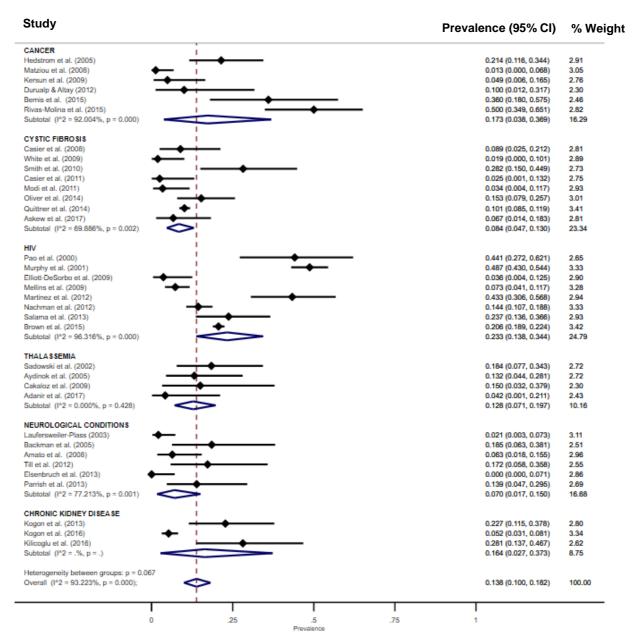
| Table 5. Meta-regression analysis | of pooled anxiety prevalence |
|-----------------------------------|------------------------------|
|-----------------------------------|------------------------------|

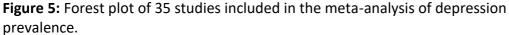
| Covariate | Number of Studies | Beta (95% CI) | p Value | Adj. R ² |
|-----------------------------|-------------------|--------------------|---------|---------------------|
| Study Location ^a | 18 | 0.05 (-0.12-0.22) | 0.53 | -4.89% |
| Assessment Tool | 19 | 0.15 (0.01-0.30) | 0.04 | 43.36% |
| Risk of Bias | 19 | 0.02 (-0.18-0.21) | 0.84 | -10.16% |
| Sample Size | 19 | -0.00 (-0.00-0.00) | 0.60 | -11.44% |
| Mean Age | 15 | -0.01 (-0.04-0.02) | 0.50 | -1.09% |
| % Female | 16 | 0.01 (-0.00-0.02) | 0.25 | 11.01% |

^a Excluded: multi-national studies containing sites in both Europe and the USA, and studies from Mexico excluded due to insufficient numbers

2.3.5 Prevalence of Depression

The prevalence of depression was reported in 35 studies, with a total of 5,934 participants. Depression prevalence ranged from 0.0% (95% CI: 0.0%-0.7%) to 50.0% (95% CI: 34.9%-65.1%). The pooled depression prevalence estimate from the random-effects meta-analysis was 13.8% (95% CI: 10.0%-18.2%). Substantial heterogeneity was found in the analysis (I^2 =93.2%, p<0.001) (Figure 5).





Although visual inspection of the funnel plot for the depression meta-analysis suggested some publication bias, due to a lack of published studies with large standard errors reporting high depression prevalence, this was not found to be statistically significant by Egger's test of bias (p=0.81) (Figure 6).

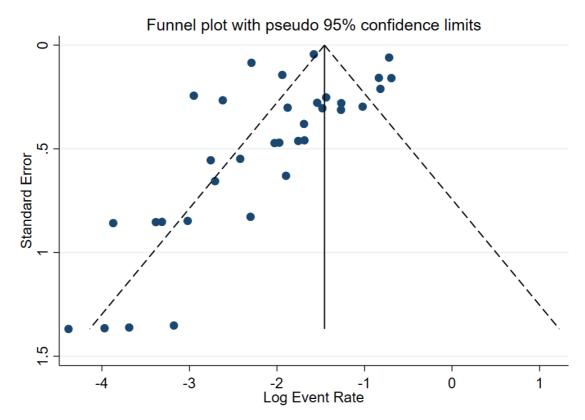


Figure 6. Funnel plot for depression meta-analysis, with pseudo 95% confidence limits

Sub-group analysis found that the pooled prevalence of depression differed by diagnostic group. Children and young people with HIV reported the highest pooled depression prevalence (24.2%, 95% CI: 15.4%-34.2%), whilst those with neurological conditions had the lowest prevalence (7.0%, 95% CI: 1.7%-15.0%). US studies reported higher depression prevalence (18.8%, 95% CI: 12.6%-25.8%) compared to European studies (9.5%, 95% CI: 5.0%-15.1%). Differences in pooled depression prevalence were also found by assessment tool; studies that used self-/parent-completed measures had a higher pooled prevalence (15.4%, 95% CI: 11.0%-20.4%) than studies using diagnostic interviews (10.5%, 95% CI: 4.0%-19.3%). Variations in depression prevalence according to the risk of bias assigned to the study were very small; studies at moderate risk of

bias reported a slightly higher prevalence (14.8%, 95% CI: 6.7%-25.0%) compared to studies at low risk of bias (14.2%, 95% CI: 9.7%-19.4%) (Table 6).

| Subgroups | Number of Studies | Number of Participants | Pooled Depression Prevalence Estimate (95% CI) | l ² | p Value |
|-------------------------------------|----------------------|---------------------------|--|----------------|---------|
| Diagnostic Group | | | | | |
| Cancer | 6 | 268 | 17.3% (3.8%-36.9%) | 92.0% | <0.001 |
| Cystic fibrosis | 8 | 1,628 | 8.4% (4.7%-13.0%) | 69.9% | 0.002 |
| HIV | 8 | 3,071 | 23.3% (13.8%-34.4%) | 96.3% | <0.001 |
| Thalassemia | 4 | 120 | 12.8% (7.1%-19.7%) | 0.0% | 0.43 |
| Neurological | 6 | 261 | 7.0% (1.7%-15.0%) | 77.2% | 0.001 |
| Conditions | | | | | |
| Chronic kidney disease | 3 | 420 | 16.4% (2.8%-37.3%) | - | - |
| Study Location ^a | | | | | |
| Europe | 16 | 699 | 9.5% (5.0%-15.1%) | 78.0% | <0.001 |
| USA | 17 | 3,805 | 18.0% (11.7%-25.4%) | 95.2% | <0.001 |
| Assessment Tool | | | | | |
| Self/parent-completed questionnaire | 27 | 5,310 | 14.8% (10.4%-19.8%) | 94.0% | <0.001 |
| Diagnostic interview | 8 | 509 | 10.5% (4.0%-19.3%) | 83.9% | <0.001 |
| Risk of Bias | | | | | |
| Low | 21 | 5,277 | 13.4% (8.9%-18.6%) | 94.9% | <0.001 |
| Moderate | 14 | 542 | 14.8% (6.7%-25.0%) | 88.0% | <0.001 |

Table 6. Sub-group analysis of pooled depression prevalence

 I^2 statistic could not be generated for groups containing <=3 studies

^a Excluded: Multi-national studies containing sites in both Europe and the USA, and studies from Mexico or Canada excluded

Meta-regression analysis found only sample mean age (β =0.02, 95% CI: 0.01-0.03,

p=0.001) to be significantly associated with pooled depression prevalence (Table 7).

Table 7. Meta-regression analysis of pooled depression prevalence

| Covariate | Number of Studies | Beta (95% CI) | p Value | Adj. R² |
|-----------------------------|----------------------|--------------------|---------|---------|
| Study Location ^a | 33 | 0.10 (-0.02-0.21) | 0.11 | 9.78% |
| Assessment Tool | 35 | -0.06 (-0.20-0.08) | 0.37 | 2.12% |
| Risk of Bias | 35 | 0.01 (-0.11-0.13) | 0.87 | -4.65% |
| Sample Size | 35 | 0.00 (-0.00-0.00) | 0.86 | -9.29% |
| Mean Age | 24 | 0.02 (0.01-0.03) | 0.001 | 100.00% |
| % Female | 31 | 0.00 (-0.00-0.00) | 0.58 | -33.62% |

^a Excluded: multi-national studies containing sites in both Europe and the USA, and studies from Mexico excluded due to insufficient numbers

2.4 Discussion

2.4.1 Key Findings

This chapter describes the systematic review and meta-analysis conducted to assess the prevalence and incidence of anxiety and depression in children and young people with life-limiting conditions. This review identified 19 studies of anxiety prevalence, 35 studies of depression prevalence and no studies of anxiety or depression incidence. Meta-analyses of anxiety and depression prevalence from the included studies found a pooled anxiety prevalence of 19.1% (95% CI: 14.1%-24.6%) and a pooled depression prevalence of 13.8% (95% CI: 10.0%-18.2%). These findings indicate a substantially higher prevalence of anxiety and depression in children and young people with lifelimiting conditions compared to those reported by epidemiological studies of anxiety and depression prevalence in the general population of children and young people (Ghandour et al., 2019, NHS Digital, 2018b).

Sub-group analysis was conducted by diagnostic group, study location, anxiety/depression assessment tool and risk of bias. The prevalence of both anxiety and depression was found to vary by diagnostic group; the highest pooled prevalence of anxiety (29.4%) was reported for children and young people with thalassemia, while the highest pooled prevalence of depression (24.2%) was found among children and young people with HIV. It was also observed that the prevalence of anxiety and depression differed by the type of assessment tool used, with diagnostic interviews associated with higher anxiety prevalence. This was also found in a systematic review of anxiety prevalence in children and young people with autistic spectrum disorders (Van Steensel, Bögels and Perrin, 2011). Conversely, higher depression prevalence was associated with the use of self-/parent-report questionnaires, a finding previously reported by a systematic review of the prevalence of depression among adults with chronic kidney disease (Palmer et al., 2013). These findings may be partially accounted for by the diagnostic groups studied. For example, over half of the studies which used diagnostic interviews concerned children and young people with thalassemia and the pooled anxiety prevalence for this group was very high, whereas in the case of depression, the highest pooled prevalence was found for HIV studies, most of which used self-/parent-report measures.

Meta-regression analysis was also conducted, finding that age was significantly associated with depression prevalence. This trend is consistent with that found among the general population of children and young people with anxiety or depression (NHS Digital, 2018a). Although sex was not found to be associated with depression prevalence, and neither sex nor age were associated with anxiety prevalence, these findings should be treated with caution given that many studies could not be included in the meta-regression model due to a lack of reported age and sex data.

2.4.2 Strengths & Limitations

This review has a number of strengths. Importantly, this is the first systematic review and meta-analysis of anxiety and depression prevalence among children and young people with life-limiting conditions to have been conducted. Given the increasing numbers of children and young people living with life-limiting conditions, and recent calls to recognise and address the mental health needs of this population, a comprehensive picture of the existing evidence regarding the prevalence of depression and anxiety across this population is extremely valuable. In addition, the comprehensive search strategy utilised in this review resulted in the inclusion of a total of 36 studies in the meta-analyses, from more than ten countries, covering five condition types. This improves the robustness of the pooled prevalence estimates, offering a more accurate description of the epidemiology of anxiety and depression in this patient group than is afforded by single studies.

However, weaknesses in the review methodology must be noted. As such, only studies written in English were eligible for inclusion, limiting the generalisability of the prevalence estimates. In addition, very high levels of heterogeneity were observed in both meta-analyses, as has been observed in other meta-analyses of disease prevalence (Catalá-López et al., 2012, Mansfield et al., 2016, Noubiap et al., 2017). Although sub-group analysis was conducted to explore this, the level of heterogeneity found within each of the sub-groups analysed (diagnostic group, study location, assessment tool, risk of bias) was still high. Univariate meta-regression was also used to further explore the heterogeneity. However, most of the results from these models were not statistically significant, indicating that the predictor variables included in these models did not significantly explain the variation in prevalence estimates. This suggests that the heterogeneity observed may have been a result of the interplay 50

between the various factors such as age, sex, diagnostic group. However, due to the relatively small number of studies in each sub-group and the resulting low power, it was not possible to conduct multivariable meta-regression models to explore the combined effects of these factors on the prevalence of anxiety or depression.

This review is also limited by the available dataset. As such, the coverage of lifelimiting conditions is far from exhaustive. Importantly, of the 5,876 participants included in the review, only 342 (5.8%) had neurological conditions, yet over 8% of children and young people with a life-limiting condition in England have a neurological diagnosis (Fraser et al., 2020a). Intellectual disability is a common comorbidity among this group (Julian et al., 2013, Robinson et al., 2014, Stadskleiv, 2020). However, the identification of mental health problems or emotional distress in children and young people with intellectual disability can be complex due to communication limitations (Vos et al., 2012). Whilst greater efforts should be made to improve the accessibility and suitability of self-/parent-report measures, for some the detection of emotional distress will rely on methods such as the interpretation of non-verbal behaviours, utterances, and physiological responses.

There are also some broader limitations in terms of the characteristics of the included studies. First, many of the studies had very small sample sizes. When combined with the relatively narrow range of life-limiting conditions represented, this limits the ability of any analysis to produce results that are representative of the whole population of children and young people with life-limiting conditions. In addition, some of the studies did not report key study data, such as the age and sex characteristics of their samples. For example, only 15 (78.9%) of the included studies reporting anxiety prevalence and 24 (66.7%) of the studies reporting depression prevalence provided the mean age of the study sample. This greatly reduced the number of studies that could be included in the meta-regression models.

Importantly, the majority of the screening tools used in the studies have not been validated in children and young people with life-limiting conditions, thereby reducing the validity of the studies' findings (Thabrew et al., 2017). In fact, the Hospital Anxiety and Depression Scale (HADS), the most commonly used assessment tool in the included studies, is designed to only be used by young people aged 17 years or over

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(Thabrew et al., 2017). The Hospital Anxiety and Depression Scale (HADS) has also been shown to have significant issues, including the underestimation of anxiety and depressive symptoms, and therefore is not recommended for use as a screening tool (Abbott et al., 2019, Quittner et al., 2014). Subsequently, the prevalence of anxiety and depression reported in the studies using the Hospital Anxiety and Depression Scale (HADS) may be underestimates of the true prevalence.

Finally, as no studies reported longitudinal data, the incidence of anxiety and depression in children and young people with life-limiting conditions could not be assessed. Consequently, the temporality of the association between the diagnosis of a life-limiting condition and the development of anxiety or depression could not be explored. Therefore, a longitudinal study investigating the incidence of anxiety and depression among children and young people with a wide range of life-limiting conditions is required in order to fully understand the epidemiology of these mental health conditions in this population group (Chapters 4 & 5).

2.5 Chapter Summary

This chapter has outlined the systematic review and meta-analysis conducted to estimate the prevalence and incidence of anxiety and depression in children and young people with life-limiting conditions from previously published literature, as set out in the first objective of this thesis. This review found that the prevalence of anxiety and depression in children and young people with the specific life-limiting conditions investigated in the literature was higher than that found in the general population. However, the range of life-limiting conditions studied was narrow and no studies of anxiety or depression incidence have been conducted in this population. The next chapter will describe the second review undertaken for this thesis, investigating the risk and protective factors for anxiety and depressive symptoms in children and young people with life-limiting conditions.

<u>Chapter 3: Risk and Protective Factors For Anxiety and Depressive</u> <u>Symptoms in Children and Young People with Life-Limiting Conditions: A</u> <u>Systematic Review and Best Evidence Synthesis</u>

3.1 Introduction

Chapter 2 described the systematic review and meta-analysis conducted to investigate the incidence and prevalence of anxiety and depression in children and young people with life-limiting conditions. Although the range of life-limiting conditions studied in previous research has been narrow, the results of this review indicated that the prevalence of anxiety and depression among children and young people with the lifelimiting conditions that have been assessed is higher than that found in the general population. In order to understand more about anxiety and depression in children and young people with life-limiting conditions, it is important to explore the factors that are associated with anxiety and depression in this group. Therefore, this chapter describes the research undertaken to achieve the second objective outlined in Chapter 1:

• To conduct a systematic review to identify the factors that have been found to be associated with anxiety and depressive symptoms among children and young people with life-limiting conditions in previously published literature

3.2 Methods

This systematic review was reported according to the standards of Preferred Reporting Items for Systematic Reviews and Meta-Analyses (PRISMA) guidelines (Moher et al., 2010). The systematic review protocol generated for both this review and the review described in Chapter 2 was registered on the PROSPERO database on 14th February 2018, prior to review initiation (identifier: CRD42018088795).

3.2.1 Search Strategy

This review used the same search strategy as the meta-analysis described in the previous chapter. Hereby, EMBASE, Medline and PsycINFO were searched on 15th January 2018, identifying papers published from 1st January 2000 onwards. The search consisted of the following concepts: (children/adolescents/young adults) AND (anxiety/depression) AND (life-limiting conditions). All life-limiting condition diagnoses, as defined in the directory produced by Hain et al. in 2013, were included as search

terms, using both subject headings and free text (Hain et al., 2013). The search strategy for Medline is displayed in Appendix 2.

Reference lists of identified systematic reviews and all included articles were searched for additional eligible papers. Grey literature was reviewed using an advanced Google search, with the first 50 PDFs screened for eligibility.

The eligibility criteria were similar to those utilised in the meta-analysis, with two key differences. First, although symptoms of anxiety and depression must have been measured using validated assessment tools or coded medical report data, it was not essential that studies reported an estimate of prevalence or incidence. Therefore, the outcome studied in this systematic review was the level of anxiety/depressive symptoms experienced by the children and young people (measured as a continuous variable) rather than anxiety/depression diagnoses. Second, one or all of the aims of the included studies must have been to quantitatively analyse the association of one or more factors with the level of anxiety or depressive symptoms.

The remaining eligibility criteria were identical to those in the previous chapter. Therefore, in order for studies to be included, they must have:

- 1. included participants between the ages of 5-25 years
- 2. included participants diagnosed with a life-limiting condition
- 3. been published in English or subsequently translated into English
- 4. been conducted in a country within the Organisation for Economic Cooperation and Development (OECD)

The following types of study designs were excluded:

- case studies, case series, intervention studies, qualitative studies and systematic reviews
- studies which included non-life-limiting condition diagnoses and did not report data separately
- 3. studies of participants successfully treated for cancer

3.2.2 Study Selection

As in the previous chapter, titles and abstracts of all studies were screened by the primary reviewer (MMB), with 20% also independently screened by a second reviewer

(LR). Any discrepancies were resolved through discussion. Full texts of all studies deemed potentially eligible were retrieved and reviewed for eligibility by MMB, with the second reviewer (LR) also independently reviewing 20%. Studies investigating anxiety or depressive symptoms among children and young people with DiGeorge Syndrome were excluded at this stage as mental health problems are a component of this condition, meaning that the risk and protective factors for anxiety/depressive symptoms identified among these children and young people may differ to those observed in the rest of the life-limiting condition population (Baker and Skuse, 2005).

3.2.3 Data Extraction

Data were extracted by MMB, using an extraction form piloted on three of the eligible studies (see Appendix 4 for data extraction form). Key study characteristics including country of study, study design, recruitment and eligibility criteria, anxiety/depression assessment tool, age, and sex were extracted. Data relating to each risk/protective factor were analysed. This data included: data collection and/or measurement tool, statistical analysis methods, and outputs.

3.2.4 Best Evidence Synthesis Methods

Studies assessing factors associated with anxiety and depressive symptoms among children and young people with life-limiting conditions are highly heterogeneous. Most of this heterogeneity is due to variations in the statistical analyses used in the studies; more specifically, the adjustment for different covariates in the multivariable models conducted in different studies. Although meta-analyses of the univariate results for each factor could have been performed, the lack of independence of the factors would compromise the validity of such meta-analyses. An alternative synthesis methodology is a best evidence synthesis, which combines the quantitative analysis of study results; a key feature of meta-analyses, with the analysis of study methodologies; an important aspect of narrative syntheses, using the best available evidence, subsequently allowing the strength of evidence to be graded (Slavin, 1986). When grading the strength of the evidence synthesis must consider three key domains; quality, quantity, and consistency (West et al., 2002). However, the exact methods used to grade the evidence according to these domains varies between different best evidence syntheses.

3.2.5 Study Quality

As the factors associated with anxiety and depression are not independent of each other, multivariable analysis was deemed to be of higher validity. Therefore, it was important that the results of multivariable analysis were given more weighting than those of univariate analysis when the evidence was graded. In order to achieve this, a two-stage method was used to assess study quality, based on a previously published best evidence synthesis, which incorporated both the study's general methodological quality and the presence or absence of multivariable analysis in the study's quality classification (Xing et al., 2013).

First, a quality score was assigned using the Appraisal Tool for Cross-Sectional Studies (AXIS tool) and the Newcastle Ottawa Scale (NOS) for cohort studies (Downes et al., 2016, Wells et al., 2017). The AXIS tool was published in 2016 and assesses 20 components of study design and execution such as the aims/objectives, sample selection and recruitment, reporting of statistical methods, likelihood of non-response bias, consistency of results, authors' conclusions, and any possible conflicts of interest (Downes et al., 2016). For each component, a response of 'yes' 'no' or 'don't know' was recorded, and a total score out of a possible 20 was assigned based on the number of 'yes' responses. As the tool does not specify what cut-off values should be used to categorise studies as high, moderate, and low quality categories, the following values were chosen: ≥15 for high quality, 10-14 for moderate quality, and <10 for low quality. These categories align with those used in previously published systematic reviews (Marzi, Demetriou and Reimers, 2018, Moor and Anderson, 2019).

The Newcastle Ottawa Scale (NOS) for cohort studies consists of three sections; selection, comparability, and outcome (Wells et al., 2017). The selection section assesses aspects such as representativeness of the exposed cohort, selection of the non-exposed cohort, and measurement of the exposure. The comparability section focuses on statistical adjustment for potential confounders. Finally, the outcome section assesses measurement of the outcome, whether the follow-up period was long enough for the occurrence of the outcome, and whether follow-up was completed by all participants. A star grading system is used, whereby a star is assigned for each desirable response, up to a total of four stars for the selection section. The criteria

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outlined in Table 8 were used to convert scores into quality categories, based on previous literature (McPheeters et al., 2012).

| Quality Catagory | Criteria | | | | | | | | |
|------------------|-----------|---------------|---------|--|--|--|--|--|--|
| Quality Category | Selection | Comparability | Outcome | | | | | | |
| Good | ≥3 | 2 | ≥2 | | | | | | |
| Fair | 2 | ≥1 | ≥2 | | | | | | |
| Poor | 0-1 | 0 | 0-1 | | | | | | |

Table 8. Newcastle Ottawa Scale quality categories

The second stage of study quality assessment involved assigning an overall quality classification to each study based on the quality score from either the AXIS tool or the Newcastle Ottawa Scale, and the presence or absence of multivariable analysis, using the criteria outlined in Table 9.

Table 9. Criteria for overall quality level classifications

| Quality Classification | Criteria for cross-sectional analyses | Criteria for cohort analyses |
|---------------------------|--|---|
| High | Multivariable analysis conducted and AXIS score of ≥15 | Multivariable analysis conducted and NOS category "good" |
| Moderate | Multivariable analysis conducted but quality score <15, or no multivariable analysis conducted and quality score ≥10 | Multivariable analysis conducted but NOS category "fair", or no multivariable analysis conducted and NOS category "fair" or "good" |
| Low | Quality score <10 | NOS category "poor" |

3.2.6 Level of Evidence

Using the three key domains of a best evidence synthesis (quality, quantity, and consistency), the level of evidence identified for each factor was categorised as strong, moderate, limited, no evidence of an association, or conflicting, according to the criteria outlined in Table 10 (Lievense et al., 2002, O'neil et al., 2014, Urquhart et al., 2010). A best evidence synthesis was conducted for all factors which were assessed in three or more analyses. A minimum of three analyses assessing each factor were needed in order to assess the consistency of the evidence. Each best evidence synthesis only included analyses of the direct effects of the factor in question. Additionally, if conflicting results were found within papers from multivariable and univariate analysis, the multivariable result was used for the best evidence synthesis.

Table 10. Criteria for assessing evidence level of factors in each best evidence synthesis

| Evidence Level for Significant Association | Criteria | | | | | | |
|---|--|--|--|--|--|--|--|
| Strong evidence | ≥3 analyses from high/moderate quality cohort studies, of which ≥75% | | | | | | |
| | find a significant association in the same direction | | | | | | |
| Moderate evidence | 2 analyses from high/moderate quality cohort studies and 1 analysis from high/moderate quality cross-sectional studies, >3 analyses from high quality cross-sectional studies or \geq analyses from 4 moderate quality cross-sectional studies, of which \geq 75% find a significant association in the same direction | | | | | | |
| Limited evidence | 1 analysis high/moderate quality cohort study and 2 analyses from moderate quality cross-sectional study, 3 analyses from high/moderate quality cross-sectional studies, or >3 analyses from low quality studies, of which ≥75% find a significant association in the same direction | | | | | | |
| No evidence | ≥3 analyses, of which ≥75% find no association | | | | | | |
| Conflicting evidence | ≥3 analyses, of which <75% show consistent findings | | | | | | |

Significant association defined as *p*<0.05

3.3 Results

3.3.1 Study Characteristics

From the database search and additional searches, 14,866 non-duplicate articles were identified, of which 706 were full-text screened for eligibility (Figure 7). This resulted in the inclusion of 22 studies, one of which assessed anxiety symptoms only, seven assessed depressive symptoms only, and 14 assessed both anxiety and depressive symptoms. Key characteristics of the included studies are displayed in Table 11. The total number of participants included in the review was 3,284. Sample sizes of the included studies ranged from 29-1,286 participants, with a median of 59 participants (IQR: 42-125). The age range of participants was reported in 18 studies, and the overall age range of included studies was 5 to 25 years. Mean age was reported in 15 studies, with an overall mean of 16.2 years (SD±2.4). The proportion of females included in the sample was reported in 21 studies, ranging from 30% to 77%, and the overall mean percentage was 51.5%. In total, 13 (59.1%) studies were from the USA, five (22.7%) were from Europe, and two (9.1%) were from Australia. In addition, one study was from Canada and one study was multinational, including both European countries and the USA. None of the included studies were conducted in the UK. Of the 22 included studies, 19 used cross-sectional analyses, two used cohort analyses, and one used both cross-sectional and cohort analyses.

Five condition types were assessed in the included studies: three (13.6%) studies included children and young people with cancer, nine (40.9%) included children and young people with cystic fibrosis, four (18.2%) studied children and young people with HIV, four (18.2%) studied children and young people with chronic kidney disease (CKD), and a further two studies (9.1%) included children and young people with neurological conditions. One of these neurological studies included children and young people with paediatric multiple sclerosis and the other included children and young people with cerebral palsy. One study of cystic fibrosis was not included in the best evidence synthesis as none of the factors it assessed were studied in three or more analyses (Beinke, O'Callaghan and Morrissey, 2015).

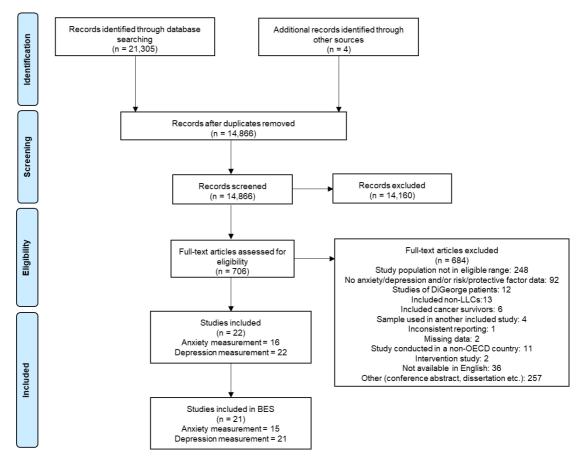


Figure 7. PRISMA Flow Diagram showing the inclusion of 22 studies from the 21,309 identified

| Author & Publication Date | Location | Sample Size | Age Range, years (Mean ±SD) | No. of Females/Sample Size (%) | Year of Data Collection | Anxiety Measurement | Depression Measurement | Risk/Protective Factor Categories Studied | AXIS Tool Quality Assessment Score | Newcastle- Ottawa Quality Assessment Score |
|---|-----------|----------------|-----------------------------------|--------------------------------------|-------------------------------|------------------------|---------------------------|--|---|---|
| | | | | | | Cancer | | | | |
| (Bemis et al., 2015) | USA | 151 | 10-17 (13.5±2.4) | 77/151 (51) | NR | × | V | Sociodemographic* Clinical* External stressors Caregiver/family | 11 | NA |
| (Hedström, Ljungman and von Essen, 2005) | Sweden | 56 | 13-19 | 24/56 (43) | 1999-2003 | ✓ | ~ | Sociodemographic* Clinical External stressors | 13 | NA |
| (Dobrozsi et al., 2017) | USA | 29 | 8-21 (13.4) | 12/29 (41) | 2013-2014 | ~ | ~ | Sociodemographic*Clinical* | NA | Fair |
| | | | | | Cys | tic Fibrosis | | | | |
| (Beinke, O'Callaghan and Morrissey, 2015) | Australia | 49 | 16-25 (19.41±2.84) | 30/49 (61) | NR | ✓ | ~ | Coping mechanisms Caregiver/family | 13 | NA |
| (Bennett et al., 2008) | USA | 87 | 7-18 (13.1±3.8) | 49/87 (56) | NR | ✓ | ~ | Sociodemographic* Clinical* Coping mechanisms* | 12 | NA |
| (Bennett et al., 2015) | USA | 44 | 9-23 (15.7±3.7) | 23/44 (52) | NR | ~ | ~ | Coping mechanisms* | NA | Poor |
| (Casier et al., 2008) | Belgium | 34 | (17.31±3.05) | 18/34 (53) | NR | ~ | ~ | Sociodemographic* Clinical* Coping mechanisms* | 12 | Fair |

Table 11. Key characteristics of the 22 studies included in the systematic review

| Author & Publication Date | Location | Sample Size | Age Range, years (Mean ±SD) | No. of Females/Sample Size (%) | Year of Data Collection | Anxiety Measurement | Depression Measurement | Risk/Protective Factor Categories Studied | AXIS Tool Quality Assessment Score | Newcastle- Ottawa Quality Assessment Score |
|--|---|----------------|-----------------------------------|--------------------------------------|-------------------------------|------------------------|---------------------------|--|---|---|
| (Casier et al., 2011) | Belgium | 40 | (18.40±2.87) | 17/40 (43) | NR | ~ | ~ | Sociodemographic* Clinical* Coping mechanisms* | 17 | NA |
| (Modi et al., 2011) | USA | 59 | (15.77±2.5) | 27/59 (46) | 2006-2008 | ~ | ~ | Sociodemographic*Clinical* | 14 | NA |
| (Oliver et al., 2014) | USA | 72 | 14-25 (19.1±3.3) | 36/72 (50) | 2010-2011 | ~ | ~ | Clinical* Coping mechanisms* | 13 | NA |
| (Quittner et al., 2014) | Multi- national (Europe & USA) | 1286 | (14.84±1.69) | 669/1286 (52) | NR | ~ | ~ | Sociodemographic* Clinical* | 13 | NA |
| (Smith, Cogswell and Garcia, 2014) | USA | 38 | 7-17 (12.1±3.1) | 20/38 (53) | 2007 | × | ~ | Sociodemographic*Clinical* | 13 | NA |
| | | | • | • | | HIV | · | | | |
| (Bennett et al., 2016) | USA | 88 | 12-24 (18.3±3.0) | 39/88 (44) | NR | V | V | Sociodemographic* Clinical Coping mechanisms | 12 | NA |
| (Murphy et al., 2001) | USA | 230 | 13-19 (16.9±1.2) | 177/230 (77) | NR | × | ~ | Sociodemographic* Coping mechanisms External stressors | 11 | NA |
| (Nachman et al., 2012) | USA | 313 | 6-17 | NR | 2007 | 1 | 1 | Sociodemographic* Clinical* External stressors | 16 | NA |

| Author & Publication Date | Location | Sample Size | Age Range, years (Mean ±SD) | No. of Females/Sample Size (%) | Year of Data Collection | Anxiety Measurement | Depression Measurement | Risk/Protective Factor Categories Studied | AXIS Tool Quality Assessment Score | Newcastle- Ottawa Quality Assessment Score |
|---|-----------|----------------|-----------------------------------|--------------------------------------|-------------------------------|------------------------|---------------------------|---|---|---|
| (Salama et al., 2013) | USA | 59 | 14-23 (18.8) | 36/59 (61) | 2002-2003 | × | ~ | Sociodemographic* Clinical* Coping mechanisms | 15 | NA |
| | | | | | Neurolo | gical Conditions | | | | |
| (Till et al., 2012) | Canada | 31 | 12-19 (16.1) | 23/31 (74) | NR | × | 1 | Sociodemographic* Clinical* External stressors Parental/family | 14 | NA |
| (Yamaguchi, Nicholson Perry and Hines, 2014) | Australia | 61 | 5-15 | 23/61 (38) | NR | ~ | ~ | Sociodemographic*Clinical | 14 | NA |
| | | | | | Chronic | Kidney Disease | | | | |
| (Kiliś- Pstrusińska et al., 2013) | Poland | 137 | 8-18 | 57/137(42) | NR | \checkmark | × | Sociodemographic*Clinical* | 13 | NA |
| (Kogon et al., 2013) | USA | 44 | 7-18 | 13/44 (30) | 2011-2012 | × | ~ | Sociodemographic*Clinical* | 18 | NA |
| (Kogon et al. <i>,</i> 2016) | USA | 344 | 6-17 | 142/344 (41) | 2005-2008 | × | ~ | Sociodemographic*Clinical* | 14 | NA |
| (Kilicoglu et al., 2016) | Turkey | 32 | 8-18 | 19/32 (59) | 2014 | \checkmark | ~ | Clinical* | 15 | NA |

*Factor(s) included in best evidence synthesis

NR: not reported

3.3.2 Study Quality

Cross-sectional Studies

Of the 20 studies with cross-sectional analysis, 14 (70.0%) were scored between 10-14 (moderate quality), and six (30.0%) were given a score of ≥15 (high quality) by the AXIS tool (Table 12). All studies had clear aims/objectives and used an appropriate design for the study aim(s), however none justified the sample size used. Regarding the study population, all of the studies clearly defined the target population, however only half used a representative sampling frame. In fact, seven studies (35.0%) selected their study population from only one medical facility. Of the 11 studies that reported the selection process used, nine (81.8%) used a method that was likely to produce a representative sample. However, 11 (55.0%) studies did not categorise non-responders. Although all studies measured the risk factor and outcome measures with appropriate tools which had been validated or used in previous publications, the poor and/or incomplete reporting of statistical methods meant that many studies are not replicable using the information provided in the methods section.

Basic descriptive analyses of the sample characteristics and relevant measurements were described adequately in the majority (80.0%) of studies. However, issues arose surrounding non-responders; of the ten studies which categorised non-responders, the low response rate in six studies raised concerns regarding non-response bias. Additionally, as only one of these studies provided information about non-responders, the extent of non-response bias could not be determined. Although 18 (90.0%) of the studies had internally consistent results, for three (15.0%) studies it was not possible to determine whether all planned analyses were reported in the results, as no analyses were described in the methods. The discussions and conclusions in all of the studies were justified by the results, and all studies discussed limitations. Of the 16 (80.0%) studies which provided information on conflicts of interest and funding sources, no conflicts were reported. Finally, 19 (95.0%) of the studies provided information on ethical approval or consent of participants, all of which reported undertaking one or both of these.

| Author & Publication | | | | | | | | | C | Questio | n Num | ber | | | | | | | | | Total | Quality Category |
|---|---|--------------|---|--------------|----|--------------|---|--------------|------|--------------|--------------|-----|--------------|----|----|--------------|----|--------------|----|--------------|-------|---------------------|
| Date | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | | |
| | | | | | | | | | | Canc | er | | | | | | | | | | | |
| Bemis et al., 2015 | ✓ | ✓ | × | ✓ | × | NR | × | \checkmark | ✓ | ✓ | × | × | NR | NR | ✓ | ✓ | ✓ | \checkmark | × | \checkmark | 12 | Moderate |
| (Hedström, Ljungman and von Essen, 2005) | ~ | ~ | × | ~ | ~ | ~ | × | ~ | ~ | × | × | ~ | NR | NR | > | ~ | ~ | ~ | × | ~ | 15 | High |
| | | | | | | | | | C | ystic Fi | brosis | | | | | | | | | | | |
| Beinke et al., 2015 | ✓ | ✓ | × | ✓ | ✓ | \checkmark | × | \checkmark | ✓ | ✓ | × | ✓ | NR | NR | ✓ | NR | ✓ | \checkmark | × | \checkmark | 14 | Moderate |
| Bennett et al., 2008 | ✓ | ✓ | × | ✓ | × | \checkmark | ✓ | \checkmark | ✓ | × | × | ✓ | × | × | ✓ | NR | ✓ | \checkmark | NR | NR | 12 | Moderat |
| Casier et al., 2008 | ✓ | ✓ | × | ✓ | × | \checkmark | ✓ | \checkmark | ✓ | × | × | ✓ | \checkmark | × | ✓ | NR | ✓ | \checkmark | NR | \checkmark | 12 | Moderat |
| Casier et al., 2011 | ✓ | ✓ | × | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ~ | ✓ | ✓ | × | ✓ | ~ | ✓ | ✓ | × | ✓ | 17 | High |
| Modi et al., 2011 | ✓ | ✓ | × | ✓ | × | × | ✓ | \checkmark | ✓ | × | × | ✓ | × | × | ✓ | ✓ | ✓ | \checkmark | × | \checkmark | 14 | Moderat |
| Oliver et al., 2014 | ✓ | ✓ | × | ✓ | × | NR | × | ✓ | ✓ | × | × | ✓ | × | × | ✓ | ✓ | ✓ | ✓ | × | ✓ | 13 | Moderat |
| Quittner et al., 2014 | ✓ | ✓ | × | ✓ | ✓ | NR | × | ✓ | ✓ | × | × | ✓ | NR | NR | ✓ | ✓ | ✓ | ✓ | × | ✓ | 13 | Moderat |
| (Smith, Cogswell and Garcia, 2014) | ~ | ~ | × | ~ | × | ~ | × | ~ | ~ | × | × | ~ | NR | NR | × | ~ | ~ | ~ | × | ~ | 13 | Moderat |
| | | | | | | | | | | HIV | 1 | | | | | | | | | | | |
| Bennett et al., 2016 | ✓ | ✓ | × | \checkmark | × | NR | ✓ | \checkmark | ✓ | \checkmark | × | × | ✓ | × | ✓ | ✓ | ✓ | ✓ | NR | ✓ | 12 | Moderat |
| Murphy et al., 2001 | ✓ | ✓ | × | ✓ | ✓ | NR | × | ✓ | ✓ | × | × | × | NR | × | × | ✓ | ✓ | ✓ | × | ✓ | 11 | Moderat |
| Nachman et al., 2012 | ✓ | ✓ | × | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | × | ✓ | × | √ | ✓ | ✓ | ✓ | × | ✓ | 16 | High |
| Salama et al., 2013 | ✓ | ✓ | × | ✓ | ✓ | NR | ✓ | ✓ | ✓ | × | × | ✓ | × | ✓ | ✓ | ✓ | ✓ | ✓ | NR | ✓ | 15 | High |
| | | | | | | | | | Neur | ologica | Disea | ses | | | | | | | | | | |
| Till et al., 2012 | ✓ | ✓ | × | ✓ | × | × | × | ✓ | ✓ | ✓ | ✓ | ~ | NR | NR | ✓ | ✓ | ✓ | ✓ | × | ✓ | 14 | Moderat |
| (Yamaguchi, Nicholson Perry and Hines, 2014) | ~ | ~ | × | ~ | NR | NR | ~ | ~ | ~ | ~ | × | ~ | ~ | × | ~ | ~ | ~ | ~ | × | ~ | 14 | Moderat |
| | | | | | | | | | | CKE |) | | | | | | | | | | | |
| Kilis-Pstrusinska et al., 2013 | ~ | ~ | × | ~ | ~ | NR | × | ~ | ~ | ~ | × | ~ | NR | NR | ~ | ~ | ~ | ~ | × | ~ | 14 | Moderat |
| Kogon et al., 2013 | ✓ | ✓ | × | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | × | × | 18 | High |
| Kogon et al., 2016 | ✓ | ✓ | × | ✓ | ✓ | NR | × | ✓ | ✓ | ✓ | × | ✓ | NR | NR | ✓ | ✓ | ✓ | ✓ | × | ✓ | 14 | Moderat |
| Kilicoglu et al., 2016 | ✓ | \checkmark | × | \checkmark | × | ✓ | × | \checkmark | ✓ | \checkmark | \checkmark | ✓ | NR | × | ✓ | \checkmark | ✓ | \checkmark | × | ✓ | 15 | High |

Table 12. Quality assessment of the 20 included cross-sectional studies using the AXIS tool

NR: not reported *: not included in best evidence synthesis

Questions:

- 1) Were the aims/objectives of the study clear?
- 2) Was the study design appropriate for the stated aim(s)?
- 3) Was the sample size justified?
- 4) Was the target/reference population clearly defined? (Is it clear who the research was about?)
- 5) Was the sample frame taken from an appropriate population base so that it closely represented the target/reference population under investigation?
- 6) Was the selection process likely to select subjects/participants that were representative of the target/reference population under investigation?
- 7) Were measures undertaken to address and categorise non-responders?
- 8) Were the risk factor and outcome variables measured appropriate to the aims of the study?
- 9) Were the risk factor and outcome variables measured correctly using instruments/measurements that had been trialled, piloted or published previously?
- 10) Is it clear what was used to determine statistical significance and/or precision estimates? (eg, p values, CIs)
- 11) Were the methods (including statistical methods) sufficiently described to enable them to be repeated?
- 12) Were the basic data adequately described?
- 13) Does the response rate raise concerns about non-response bias?
- 14) If appropriate, was information about non-responders described?
- 15) Were the results internally consistent?
- 16) Were the results for the analyses described in the methods, presented?
- 17) Were the authors' discussions and conclusions justified by the results?
- 18) Were the limitations of the study discussed?
- 19) Were there any funding sources or conflicts of interest that may affect the authors' interpretation of the results?
- 20) Was ethical approval or consent of participants attained?

Total = number of positive responses (questions 13 and 19 negatively scored)

Cohort Studies

Of the three studies which used cohort analyses, two were classified by the Newcastle-Ottawa Scale as being fair quality, while one was rated as poor quality (Table 13). All of the studies gained the same score for the selection section of the scale, gaining stars for their somewhat representative samples, selection of non-exposed cohorts, and losing stars for assessing the exposures by written self-report measures, and not demonstrating that the outcome of interest was absent at study start. All three studies also received the maximum number of stars in the comparability section of the scale, as they all adjusted for multiple important confounders in their statistical analysis. Therefore, the only difference between the studies regarding study quality was reported in the outcome by self-report measures, and gained a star by using a sufficient follow-up period to allow outcomes to occur, Dobrozsi et al. (2016) and Casier et al. (2011) provided a description of participants who were lost to follow up, whereas Bennett et al. (2015) did not.

Table 13. Quality assessment of the three included cohort studies using the Newcastle-Ottawa Scale

| A study can be awarded a maximum of one star for each | Author Na | me & Public | ation Date |
|---|------------|-------------|------------|
| numbered item within the Selection and Outcome | Dobrozsi | Bennett | Casier et |
| categories. A maximum of two stars can be given for | et al. | et al. | al. (2011) |
| Comparability. | (2016) | (2015) | |
| SELECTION | | | |
| 1) Representativeness of the exposed cohort | | | |
| a) truly representative of the average | | | |
| (describe) in the community* | | | |
| b) somewhat representative of the average | √ * | √* | √* |
| in the community* | v | v | v |
| c) selected group of users eg nurses, volunteers | | | |
| d) no description of the derivation of the cohort | | | |
| 2) Selection of the non-exposed cohort | | | |
| a) drawn from the same community as the exposed cohort* | √* | √* | √* |
| b) drawn from a different source | | | |
| c) no description of the derivation of the non-exposed | | | |
| cohort | | | |
| | | | |
| 3) Ascertainment of exposure | | | |
| a) secure record (eg surgical records)* | | | |

| b) structured interview* | | | | | | |
|--|--------------------------------|--------------|--------------|--|--|--|
| c) written self-report | | ✓ | ✓ | | | |
| d) no description | - | | | | | |
| A study can be awarded a maximum of one star for each | Author Name & Publication Date | | | | | |
| numbered item within the Selection and Outcome | Dobrozsi | Bennett | Casier et | | | |
| categories. A maximum of two stars can be given for | | | | | | |
| Comparability. | et al. | et al. | al. (2011) | | | |
| | (2016) | (2015) | | | | |
| SELECTION | | | | | | |
| 4) Demonstration that outcome of interest was not pre | esent at start | of study | - <u>-</u> | | | |
| a) yes* | | | | | | |
| b) no | \checkmark | \checkmark | \checkmark | | | |
| Score | 2 | 2 | 2 | | | |
| COMPARABILITY | | | | | | |
| 1) Comparability of cohorts on the basis of the design of | or analysis | | - | | | |
| a) study controls for (select the most | √* | √* | √* | | | |
| important factor)* | • | • | V | | | |
| b) study controls for any additional factor* | √* | √* | √* | | | |
| c) no description of the derivation of the non-exposed | | | | | | |
| cohort | | | | | | |
| Score | 2 | 2 | 2 | | | |
| OUTCOME | | | | | | |
| 1) Assessment of outcome | | | | | | |
| a) independent blind assessment* | | | | | | |
| b) record linkage* | | | | | | |
| c) self-report | ✓ | ✓ | ✓ | | | |
| d) no description | | | | | | |
| | | | | | | |
| 2) Was follow-up long enough for outcomes to occur? | | | | | | |
| a) yes (select an adequate follow up period for | √* | √* | √* | | | |
| outcome of interest)* | v * | v * | v * | | | |
| b) no | | | | | | |
| 3) Adequacy of follow up of cohorts | | | | | | |
| a) complete follow up - all subjects accounted for* | | | | | | |
| b) subjects lost to follow up unlikely to introduce bias - | | | 1 | | | |
| small number lost - >% (select an adequate %) | √* | | √* | | | |
| follow up, or description provided of those lost)* | | | | | | |
| c) follow up rate <% (select an adequate %) and | | | | | | |
| no description of those lost | | \checkmark | | | | |
| d) no statement | | | | | | |
| Score | 2 | 1 | 2 | | | |
| TOTAL SCORE | 6 | 5 | 6 | | | |
| QUALITY RATING | Fair | Poor | Fair | | | |
| | Tan | 1001 | ian | | | |

✓*: star awarded for response✓: no star awarded for response

3.3.3 Anxiety & Depression Assessment Tools

In total, six assessment tools were used to measure symptoms of anxiety, and nine assessment tools were used to measure depressive symptoms (Table 14). The most common tool used to measure anxiety symptoms was the anxiety subscale of the Hospital Anxiety and Depression Scale (HADS), which was used in five of the 15 studies measuring symptoms of anxiety. The Hospital Anxiety and Depression Scale (HADS) and the Children's Depression Inventory (CDI) were the most commonly used tools for measuring depressive symptoms, both of which were used in six of the included studies. Parent-report measures were used in three studies (Nachman et al., 2012, Till et al., 2012, Yamaguchi, Nicholson Perry and Hines, 2014).

| | Frequen | icy of Use |
|---|---------|------------|
| Assessment Tool | Anxiety | Depression |
| | Studies | Studies |
| Hospital Anxiety and Depression Scale (HADS) | 6 | 6 |
| Revised Child Anxiety and Depression Scale ^a | 1 | 1 |
| The Child and Adolescent Symptom Inventory-4R ^a | 1 | 1 |
| Patient-Reported Outcome Measurement Information System (PROMIS) | 1 | 1 |
| Depression Anxiety and Stress Scale (DASS) | 1 | 1 |
| The Behavior Assessment Scale for Children ^a | 0 | 1 |
| Youth Self-Report (YSR) | 0 | 1 |
| The State-Trait Anxiety Inventory for Children (STAI-C) | 4 | NA |
| Multidimensional Anxiety Scale for Children-10 (MASC-10) | 1 | NA |
| Children's Depression Inventory (CDI) | NA | 6 |
| The Center for Epidemiological studies Depression Scale (CES-D) | NA | 3 |
| Beck Depression Inventory (BDI) | NA | 1 |

Table 14. Anxiety and depression assessment tools used in the 22 included studies

^a parent-report used

3.3.4 Best Evidence Synthesis Results

A total of 78 factors were analysed in the included studies (Table 15). These were categorised into **sociodemographic** factors (n=8), **clinical** factors related to the child or young person's diagnosis, treatment or disease severity (n=44), factors related to **coping style** (n=10), factors which represented **stressors** (n=4), factors related to a child or young person's **social environment** (n=4), and factors related to a child or young person's **caregiver/family** (n=7). 70

| Category | Factor | Number of Analyses – Anxiety Symptoms | Number of Analyses – Depressive Symptom |
|---------------------------------------|------------------------------------|--|--|
| | Age | 8* | 12* |
| | Sex | 12* | 14* |
| | Socioeconomic status (SES) | 3* | 6* |
| | Academic functioning | 1 | 3* |
| Sociodemographic | Intelligence | 1 | 3* |
| | Intellectual impairment | 1 | 1 |
| | Need for additional school support | 0 | 1 |
| | Ethnicity | 0 | 2 |
| | Age at diagnosis | 4* | 3* |
| | Time since diagnosis | 7* | 8* |
| | Current psychiatric medication | 1 | 1 |
| | Current psychotherapy | 1 | 1 |
| | Disability status | 2 | 2 |
| | Fatigue | 1 | 1 |
| | Health-related quality of life | 0 | 1 |
| | History of surgery | 1 | 1 |
| | History of psychiatric diagnosis | 0 | 1 |
| | Hypertension status | 0 | 1 |
| | Intravenous antibiotics | 1 | 1 |
| | Medication use | 0 | 2 |
| | Number of disabilities | 1 | 1 |
| Clinical | Number of hospitalisations | 2 | 0 |
| | Pain | 1 | 1 |
| | Pain anxiety | 1 | 1 |
| | Pain frequency | 1 | 1 |
| | Pain intensity | 1 | 1 |
| | Place of treatment | 1 | 1 |
| | Presence of epilepsy | 1 | 1 |
| | Presence of hearing impairment | 1 | 1 |
| | Presence of visual impairment | 1 | 1 |
| | Presence of speech impairment | 1 | 1 |
| | Recent surgery | 1 | 1 |
| | Systolic blood pressure | 0 | 1 |
| | Weight loss/gain | 1 | 1 |
| | Respiratory function (FEV1%) | 6 ^{◆DS} | 7 ^{◆DS} |
| Clinical Factors – Cystic | Recent | 1 | 1 |
| Fibrosis | haemoptysis/pneumothorax | <u> </u> | ± |
| | Vitamin D | 0 | 1 |
| | HIV viral load | 6 ^{◆DS} | 7 ^{◆DS} |
| | Nadir CD4% | 1 ^{•DS} | 1 ^{•DS} |
| Clinical Factors - HIV | Age at nadir CD4% | 1 | 1 |
| | Age at peak HIV RNA viral load | 1 | 1 |
| | CDC class | 1 | 2 |
| | Mode of HIV transmission | 1 | 1 |
| Clinical – Neurological Conditions | Total brain lesion volume | 1 ^{•DS} | 1 ^{•DS} |

 Table 15. Categorisation of factors analysed in the 22 included studies

| Category | Factor | Number of Analyses – Anxiety Symptoms | Number of Analyses – Depressive Symptom |
|--------------------------------------|----------------------------------|--|--|
| Clinical – Chronic Kidney Disease | Creatinine level | 2 ^{•DS} | 1 ^{•DS} |
| | Glomerular filtration rate (GFR) | 2* ^{DS} | 3 *DS |
| | Haemoglobin level | 4 ^{♦DS} | 1 ^{+DS} |
| | CKD treatment type | 2 | 0 |
| | Aetiology of CKD/ESRD | 2 | 1 |
| | Renal replacement status | 0 | 1 |
| Clinical - Cancer | Cancer diagnostic group | 1 | 1 |
| | Intensity of cancer therapy | 1 | 1 |
| Coping Style | Acceptance | 3* | 3* |
| | Blunting | 3* | 2 |
| | Monitoring | 3* | 2 |
| | Optimism | 3* | 2 |
| | Abstract reasoning | 0 | 1 |
| | Approach/adaptive coping | 0 | 2 |
| | Avoidant coping | 1 | 2 |
| | Cognitive inflexibility | 0 | 1 |
| | Guilt-proneness | 1 | 1 |
| | Shame-proneness | 1 | 1 |
| Stressors | Cancer-related stress | 0 | 1 |
| | Cancer-related distress | 1 | 1 |
| | Social stress | 1 | 1 |
| | Stressful life events | 0 | 1 |
| Social Environment | Stigma | 1 | 1 |
| | HIV-related stigma | 1 | 1 |
| | Satisfaction with social support | 0 | 1 |
| | Social functioning | 0 | 1 |
| Caregiver/Family | Caregiver anxiety | 1 | 1 |
| | Caregiver depression | 1 | 2 |
| | Family structure | 2 | 0 |
| | Maternal cancer-related stress | 0 | 1 |
| | Maternal stress | 0 | 1 |
| | Relations with parents | 1 | 1 |
| | Social constraints with parents | 1 | 1 |

Factor independently included in best evidence synthesis
 ^{DS} Factor included as part of the disease severity best evidence synthesis

For anxiety symptoms, a best evidence synthesis was performed for three sociodemographic factors (sex, age, socioeconomic status), three clinical factors (age at diagnosis, time since diagnosis, disease severity) and four factors regarding coping style (optimism, acceptance, monitoring, blunting). For depressive symptoms, a best evidence synthesis was conducted for five sociodemographic factors (sex, age, socioeconomic status, intelligence, academic functioning), five clinical factors (age at diagnosis, BMI, height, time since diagnosis, disease severity) and one factor regarding coping style (acceptance). For the best evidence syntheses assessing the associations between disease severity and anxiety/depressive symptoms, condition-specific severity measures (e.g. forced expiratory volume (FEV) for cystic fibrosis and HIV RNA viral load) were combined.

The results of the best evidence syntheses are summarised in Figure 8. Tables 16-23 are colour-coded in accordance to Figure 8, whereby pink is used to highlight factors for which no evidence for a significant association with anxiety/depressive symptoms was found, orange is used to highlight factors for which conflicting evidence for a significant association with anxiety/depressive symptoms was found, and green is used to highlight factors for a significant association with anxiety/depressive symptoms was found, and green is used to highlight factors for a significant association with anxiety/depressive symptoms was found, and green is used to highlight factors for a significant association with anxiety/depressive symptoms was found.

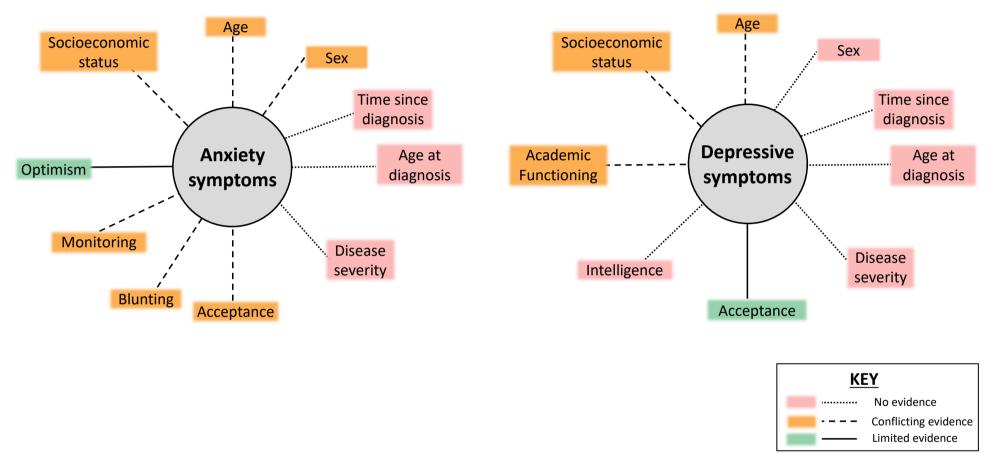


Figure 8. Diagram displaying the results for the best evidence synthesis of each factor and anxiety/depressive symptoms

Sociodemographic Factors

Conflicting evidence was found for the associations between anxiety symptoms and sex, age, and socioeconomic status (SES) (Table 16). The association between sex and anxiety symptoms was assessed in 12 analyses (n=2,092) from ten studies. Four analyses (33.3%) found a significant positive association between female sex and anxiety symptoms, while eight analyses (66.7%) found no significant association. The association between age and anxiety symptoms was assessed in eight analyses (n=1,710) from seven studies, two (25.0%) of which found a significant positive association, and four (50.0%) found no significant association. The association, two (25.0%) found a significant negative association, and four (50.0%) and anxiety symptoms was assessed in three analyses (n=262) from two studies, one of which found a significant negative association, while the remaining two analyses found no significant association.

Table 16. Level of evidence for associations between sociodemographic factors and anxiety symptoms

| Evidence Level | Factor | Author Name & Date | Sample Size | Life-limiting condition | Study Design | Study Quality | Type of Associatio n Found |
|-------------------------|--------|--|----------------|------------------------------|-----------------|------------------|--|
| Conflicting evidence | | Dobrozsi et al. (2016) | 29 | Cancer | со | Moderate | None |
| | | Hedstrom et al. (2005 | 56 | Cancer | CS | Moderate | Positive |
| | | Bennett et al. (2008) | 87 | Cystic fibrosis | CS | Moderate | None (state) None (trait) |
| | | Casier et al. (2008) | 34 | Cystic fibrosis | CS | Moderate | None |
| | Female | Modi et al. (2011) | 59 | Cystic fibrosis | CS | Moderate | Positive |
| | Sex | Quittner et al. (2014) | 1286 | Cystic fibrosis | CS | Moderate | Positive |
| | | Bennett et al. (2016) | 88 | HIV | CS | Moderate | Positive |
| | | Kilis- Pstrusinka et al. (2013) | 137 | Chronic kidney disease | CS | Moderate | None (state) None (trait) |
| | | Till et al. (2011) | 31 | Neurological condition | CS | Moderate | None |
| | | Yamaguchi et al. (2013) | 61 | Neurological condition | CS | Moderate | None |
| | | Dobrozsi et al. (2016) | 29 | Cancer | со | Moderate | Negative |
| | | Bennett et al. (2008) | 87 | Cystic fibrosis | CS | Moderate | None (state) Negative (trait) |
| | Age | Casier et al. (2008) | 34 | Cystic fibrosis | CS | Moderate | None |
| | | Casier et al. (2011) | 40 | Cystic fibrosis | CS | Moderate | None |
| | | Modi et al. (2011) | 59 | Cystic fibrosis | CS | Moderate | Positive |
| | | Quittner et al. (2014) | 1286 | Cystic fibrosis | CS | Moderate | None |
| | | Bennett et al. (2016) | 88 | HIV | CS | Moderate | Positive |
| | SES | Bennett et al. (2008) | 87 | Cystic fibrosis | CS | Moderate | None (state) ^a None (trait) ^a |
| | | Bennett et al. (2016) | 88 | HIV | CS | Moderate | Negative ^b |

CO = cohort, CS = cross-sectional

SES = socioeconomic status ^a parental education and occupation, ^b maternal education

Conflicting evidence was also found for associations between depressive symptoms and age, socioeconomic status (SES), and academic functioning (Table 17). The association between age and depressive symptoms was measured in 12 analyses (n=2,449) from 12 studies, two (16.7%) of which found a significant positive association, one found a significant negative association, and nine (75.0%) found no significant association. The association between socioeconomic status (SES) and depressive symptoms was studied in six analyses (n=972) from four studies, two (33.3%) of which found a significant negative association while four (66.7%) found no significant association. The association between academic functioning and depressive symptoms was explored in three analyses from three studies, with a total of 716 participants. One analysis found a significant negative association, while two (66.7%) found no significant association.

There was no evidence for a significant association between sex and depressive symptoms. This was measured in 14 analyses (n=2,446) from 14 studies, one of which found a significant positive association between female sex and depressive symptoms, while 13 (92.9%) found no significant association. There was also no evidence for a significant association between intelligence and depressive symptoms, which was analysed in three analyses from three studies (n=688), none of which found a significant association.

Table 17. Level of evidence for associations between sociodemographic factors anddepressive symptoms

| Evidence Level | Factor | Author Name & Date | Sample Size | Life-limiting condition | Study Design | Study Quality | Type of Association Found |
|-------------------------|-------------------------|------------------------------|----------------|------------------------------|-----------------|------------------|---|
| Conflicting evidence | | Dobrozsi et al. (2016) | 29 | Cancer | со | Moderate | Negative |
| | | Bemis et al. (2015) | 151 | Cancer | CS | Moderate | None |
| | | Bennett et al. (2008) | 87 | Cystic fibrosis | CS | Moderate | None |
| | | Casier et al. (2008) | 34 | Cystic fibrosis | CS | Moderate | None |
| | | Modi et al. (2011) | 59 | Cystic fibrosis | CS | Moderate | Positive |
| | 440 | Quittner et al. (2014) | 1286 | Cystic fibrosis | CS | Moderate | None |
| | Age | Smith et al. (2014) | 38 | Cystic fibrosis | CS | Moderate | None |
| | | Bennett et al. (2016) | 88 | HIV | CS | Moderate | Positive |
| | | Murphy et al. (2000) | 230 | HIV | CS | Moderate | None |
| | | Salama et al. (2013) | 59 | HIV | CS | Moderate | None |
| | | Kogon et al. (2013) | 44 | Chronic kidney disease | CS | High | None |
| | | Kogon et al. (2016) | 344 | Chronic kidney disease | CS | Moderate | None |
| | | Bemis et al. (2015) | 151 | Cancer | CS | Moderate | None ^a None ^b None ^c |
| | SES | Bennett et al. (2008) | 87 | Cystic fibrosis | CS | Moderate | None ^d |
| | 020 | Bennett et al. (2016) | 88 | HIV | CS | Moderate | Negative ^b |
| | | Kogon et al. (2016) | 344 | Chronic kidney disease | CS | Moderate | Negative ^b |
| | | Nachman et al. (2012) | 313 | HIV | CS | High | Negative |
| | Academic functioning | Salama et al. (2013) | 59 | HIV | CS | Moderate | None |
| | | Kogon et al. (2016) | 344 | Chronic kidney disease | CS | Moderate | None |
| No evidence | Female Sex | Dobrozsi et al. (2016) | 29 | Cancer | со | Moderate | None |

| Evidence Level | Factor | Author Name & Date | Sample Size | Life-limiting condition | Study Design | Study Quality | Type of Association Found |
|-------------------|--------------|-------------------------------|----------------|------------------------------|-----------------|------------------|---------------------------------|
| | | Hedstrom et al. (2005) | 56 | Cancer | CS | Moderate | None |
| | | Bennett et al. (2008) | 87 | Cystic fibrosis | CS | Moderate | None |
| | | Casier et al. (2008) | 34 | Cystic fibrosis | CS | Moderate | None |
| | | Modi et al. (2011) | 59 | Cystic fibrosis | CS | Moderate | None |
| | | Quittner et al. (2014) | 1286 | Cystic fibrosis | CS | Moderate | None |
| | | Smith et al. (2014) | 38 | Cystic fibrosis | CS | Moderate | None |
| | | Bennett et al. (2016) | 88 | HIV | CS | Moderate | Positive |
| | | Murphy et al. (2000) | 230 | HIV | CS | Moderate | None |
| | | Salama et al. (2013) | 59 | HIV | CS | Moderate | None |
| | | Till et al. (2011) | 31 | Neurological conditions | CS | Moderate | None |
| | | Yamaguchi et al. (2013) | 61 | Neurological conditions | CS | Moderate | None |
| | | Kogon et al. (2013) | 44 | Chronic kidney disease | CS | High | None |
| | | Kogon et al. (2016) | 344 | Chronic kidney disease | CS | Moderate | None |
| | | Nachman et al. (2012) | 313 | HIV | CS | High | None |
| | Intelligence | Till et al. (2011) | 31 | Neurological conditions | CS | Moderate | None |
| | | Kogon et al. (2016) | 344 | Chronic kidney disease | CS | Moderate | None |

CO = cohort, CS = cross-sectional

SES = socioeconomic status ^aannual family income ^bmaternal education ^csingle parenthood ^dparental education and occupation

Clinical Factors

No evidence was found for significant associations between anxiety symptoms and age at diagnosis or time since diagnosis, with none of the analyses finding a significant association (Table 18). There was also no evidence for a significant association between disease severity and anxiety symptoms, which was assessed in 26 analyses, including a total of 4,833 children and young people with either cystic fibrosis, HIV, neurological conditions, or chronic kidney disease (Table 19). **Table 18.** Level of evidence for associations between general clinical factors andanxiety symptoms

| Evidence Level | Factor | Author Name & Date | Sample Size | Life- limiting condition | Study Design | Study Quality | Type of Association Found |
|-------------------|---------------------|--|----------------|--------------------------------|-----------------|------------------|---------------------------------|
| No evidence | | Kilicoglu et al. (2016) | 32 | Chronic kidney disease | CS | Moderate | None (state) None (trait) |
| | Age at diagnosis | Kilis- Pstrusinka et al. (2013) | 137 | Chronic kidney disease | CS | Moderate | None (state) None (trait) |
| | | Dobrozsi et al. (2016) | 29 | Cancer | СО | Moderate | None |
| | | Casier et al. (2008) | 34 | Cystic fibrosis | CS | Moderate | None |
| | Time since | Casier et al. (2011) | 40 | Cystic fibrosis | CS | Moderate | None |
| | diagnosis | Kilicoglu et al. (2016) | 32 | Chronic kidney disease | CS | Moderate | None (state) None (trait) |
| | | Kilis- Pstrusinka et al. (2013) | 137 | Chronic kidney disease | CS | Moderate | None (state) None (trait) |

CO = cohort, CS = cross-sectional

| Table 19. Level of evidence for associations between disease severity markers and |
|--|
| anxiety symptoms |

| Evidence Level | Author Name & Date | Sample Size | Study Desig n | Study Quality | Disease Severity Marker | Type of Association Found |
|-------------------|----------------------------|----------------|---------------------|------------------|--------------------------------|---------------------------------|
| No | | - | - | Cystic Fibrosis | 5 | |
| evidence | Bennett et al. (2008) | 87 | CS | Moderate | FEV1% | None (state) None (trait) |
| | Casier et al. (2008) | 34 | CS | Moderate | FEV1% | None |
| | Casier et al. (2011) | 40 | CS | Moderate | FEV1% | None |
| | Modi et al. (2011) | 59 | CS | Moderate | FEV1% | None |
| | Oliver et al. (2014) | 72 | CS | Moderate | FEV1% | None |
| | Quittner et al. (2014) | 1286 | CS | Moderate | FEV1% | None |
| | | | | HIV | | |
| | | | | | CD4+ cell count | None (BL) |
| | Mellins et al. | 196 (BL), | | | | None (FU) |
| | (2012) | 166 (FU) | CS | Moderate | HIV RNA viral | None (BL) |
| | | | | | load >100,000 | None (FU) |
| | | | | | Undetectable | None (BL) |
| | | | | | viral load | None (FU) |
| | | | | | CD4% at study entry | None |
| | Nachman et | 313 | CS | High | HIV RNA viral load at study | None |
| | al. (2012)87 | 515 | CS | riigii | entry | |
| | | | | | Nadir CD4% | None |
| | | | | | Peak HIV RNA viral load | None |
| | | | Neur | ological Cond | | |
| | Till et al. (2011) | 31 | CS | Moderate | Total brain lesion volume | None |
| | | | Chro | nic Kidney Dis | sease | |
| | Kilicoglu et al. (2016) | 32 | CS | Moderate | Haemoglobin | None (state) None (trait) |
| | | | | | eGFR | None (state) |
| | Kilis- Pstrusinka et | 137 | | Moderate | | None (trait) |
| | al. (2013) | 137 | CS | wouerate | Haemoglobin | None (state) None (trait) |
| | | | | | Serum creatine | None (state) None (trait) |

CO = cohort, CS = cross-sectional BL = baseline, FU = follow-up

eGFR = estimated glomerular filtration rate

Similarly, no evidence was found for a significant association between depressive symptoms and any of the clinical factors (age at diagnosis, time since diagnosis, disease severity) (Table 20 & 21). The association between disease severity and depressive symptoms was studied in 25 analyses (n=5,211), two of which found a significant positive association between disease severity and depressive symptoms, while the remaining analyses found no significant association.

| Evidence Level | Factor | Author Name & Date | Sample Size | Life-limiting condition | Study Design | Study Quality | Type of Association Found |
|-------------------|---------------------|----------------------------|----------------|---------------------------|-----------------|------------------|---------------------------------|
| No evidence | | Kilicoglu et al. (2016) | 32 | Chronic kidney disease | CS | Moderate | None |
| | Age at diagnosis | Kogon et al. (2013) | 44 | Chronic kidney disease | CS | High | None |
| | | Kogon et al. (2016) | 344 | Chronic kidney disease | CS | Moderate | None |
| | | Dobrozsi et al. (2016) | 29 | Cancer | со | Moderate | None |
| | | Bemis et al. (2015) | 151 | Cancer | CS | Moderate | None |
| | | Casier et al. (2008) | 34 | Cystic fibrosis | CS | Moderate | None |
| | Time | Casier et al. (2011) | 40 | Cystic fibrosis | CS | Moderate | None |
| | since diagnosis | Salama et al. (2013) | 59 | HIV | CS | Moderate | None |
| | | Kilicoglu et al. (2016) | 32 | Chronic kidney disease | CS | Moderate | None |
| | | Kogon et al. (2013) | 44 | Chronic kidney disease | CS | High | None |
| | | Kogon et al. (2016) | 344 | Chronic kidney disease | CS | Moderate | None |

Table 20. Level of evidence for associations between general clinical factors and depression

CO = cohort, CS = cross-sectional

Table 21. Level of evidence for associations between disease severity markers anddepressive symptoms

| Evidence Level | Author Name & Date | Sample Size | Study Design | Study Quality | Disease Severity Marker | Type of Association Found |
|-------------------|----------------------------|-------------|-----------------|----------------------|------------------------------------|---------------------------------|
| No | | | C | stic Fibrosis | - | |
| evidence | Bennett et al. (2008) | 87 | CS | Moderate | FEV1% | None |
| | Casier et al. (2008) | 34 | CS | Moderate | FEV1% | None |
| | Casier et al. (2011) | 40 | CS | Moderate | FEV1% | None |
| | Modi et al. (2011) | 59 | CS | Moderate | FEV1% | None |
| | Oliver et al. (2014) | 72 | CS | Moderate | FEV1% | None |
| | Quittner et al. (2014) | 1286 | CS | Moderate | FEV1% | None |
| | Smith et al. (2014) | 38 | CS | Moderate | FEV1% | None |
| | | | | HIV | | |
| | | ``` | CS | | CD4+ cell count | None (BL) |
| | Mellins et | | | | | None (FU) |
| | al. (2012) | | | Moderate | HIV RNA viral | None (BL) |
| | | | | | load >100,000 | None (FU) |
| | | | | | Undetectable viral load | None (BL) |
| | | | | | CD4% | None (FU) Positive |
| | Nachman et al. | | CS | High | HIV RNA viral load | Positive |
| | (2012) | | | | Nadir CD4% | None |
| | | | | | Peak HIV RNA viral load | None |
| | Salama et al. (2013) | 59 | CS | Moderate | Recent HIV RNA viral load | None |
| | al. (2013) | | | | CD4+ cell count | None |
| | THE | | Neuro | ogical Condit | 1 | |
| | Till et al. (2011) | 31 | CS | Moderate | Total brain lesion volume | None |
| | Killing and | | Chron | ic Kidney Dise | ease | |
| | Kilicoglu et al. (2016) | 32 | CS | Moderate | Haemoglobin | None |
| | Kogon et al. (2013) | 44 | CS | High | GFR | None |
| | Kozon et | | CS | Moderate Moderate | GFR | None |
| | Kogon et al. (2016) | 344 | | | Longitudinal GFR | None |
| | ai. (2016) | 6) | | | Urine protein: creatinine ratio | None |

CO = cohort, CS = cross-sectional

BL = baseline, FU = follow-up

GFR = glomerular filtration rate

Coping Style

Limited evidence was found for an association between optimism and anxiety symptoms, which was measured in three analyses (n=246) from two studies, all of which found a significant negative association (Table 22). Conflicting evidence was found for associations between anxiety symptoms and acceptance, monitoring, and blunting. The association between acceptance and anxiety symptoms was assessed in three analyses (n=102) from two studies, two (66.7%) of which found a significant negative association, while one analysis found no significant association. The association between monitoring and anxiety symptoms was measured in three analyses (n=218) from two studies; one analysis found a significant positive association, while two analyses (66.7%) found no significant association. The association between blunting and anxiety symptoms was measured in three analyses (n=218); one found a significant positive association, one found a significant negative association, and one found no significant association.

| Evidence Level | Factor | Author Name & Date | Sample Size | Life- limiting condition | Study Design | Study Quality | Type of Association Found |
|----------------------|------------|-----------------------------|----------------|--------------------------------|-----------------|------------------|---------------------------------|
| Limited evidence | | Bennett et al. | 87 | Cystic | CS | Moderate | Negative (state) |
| | Optimism | (2008) | 5 | fibrosis | 3 | Woderate | Negative (trait) |
| | | Oliver et al. (2014) | 72 | Cystic fibrosis | CS | Moderate | Negative |
| Conflicting evidence | Accentance | Casier et al. (2008) | 34 | Cystic fibrosis | CS | Moderate | Negative |
| | Acceptance | Casier et | 40 | Cystic | CS | Moderate | Negative |
| | | al. (2011) | 28 | fibrosis | CO | Moderate | None |
| | | Bennett | | Cystic | | | None (state) |
| | Monitoring | et al. (2008) | 87 | fibrosis | CS | Moderate | Positive (trait) |
| | Monitoring | Bennett et al. (2015) | 44 | Cystic fibrosis | со | Low | None |
| | | Bennett | | Cystic | | | None (state) |
| | Blunting | et al. (2008) | 87 | fibrosis | CS | Moderate | Positive (trait) |
| | Bunning | Bennett et al. (2015) | 44 | Cystic fibrosis | СО | Low | Negative |

Table 22. Level of evidence for associations between coping style and anxiety symptoms

CO = cohort, CS = cross-sectional

Limited evidence was found for an association between acceptance and depressive symptoms, which was assessed in three analyses (n=102) from two studies, all of which found a significant negative association (Table 23).

| Evidence Level | Factor | Author Name & Date | Sample Size | Life- limiting condition | Study Design | Study Quality | Type of Association Found |
|-------------------|------------|--------------------------|----------------|--------------------------------|-----------------|------------------|---------------------------------|
| Limited | A | Casier et al. (2008) | 34 | Cystic fibrosis | CS | Moderate | Negative |
| evidence | Acceptance | Casier et | 40 | Cystic | CS | Moderate | Negative |
| | | al. (2011) | 28 | fibrosis | CO | Moderate | Negative |

Table 23. Level of evidence for associations between coping style and depressivesymptoms

CO = cohort, CS = cross-sectional

3.4 Discussion

3.4.1 Key Findings

This chapter describes the systematic review and best evidence synthesis conducted to explore the factors that have been found to be associated with symptoms of anxiety and depression in children and young people with life-limiting conditions. This review included 22 studies; one assessed anxiety symptoms, seven assessed depressive symptoms, and 14 assessed anxiety and depressive symptoms.

Findings from the best evidence synthesis indicated that there was conflicting evidence for an association between the majority of sociodemographic factors, such as age and socioeconomic status, and symptoms of anxiety or depression. In addition, whilst conflicting evidence was found for a significant association between sex and anxiety symptoms, no evidence was found for an association between sex and symptoms of depression. These results are unexpected given the strong associations between sociodemographic factors and both anxiety and depression found among children and young people in the general population and those with chronic conditions (Adams, Chien and Wisk, 2019, Lemstra et al., 2008, NHS Digital, 2018a).

No evidence was found for an association between disease severity and anxiety or depressive symptoms. Previous studies have found an inconsistent relationship between disease severity and measures of psychological functioning (Bennett, 1994). Interestingly, a study of adolescents with chronic illnesses found no association

between depressive symptoms and disease severity rated by clinicians, however an association was found between depressive symptoms and patient-rated disease severity (Key et al., 2001). This suggests that a child's perception of their illness may be more crucial to their psychological functioning than clinical disease severity, and that any impact of disease severity on mental health may be moderated or mediated by other factors such as coping style. Indeed, the importance of coping style was highlighted in this review, which found limited evidence for the protective roles of optimism and acceptance in the development of anxiety and depressive symptoms, respectively. This aligns with the substantive body of evidence regarding the relationship between coping styles and psychological adjustment among children and young people with chronic conditions (Compas et al., 2012). Additionally, limitations to a child or young person's ability to participate in activities associated with a normal life, such as school, work or recreation, and peer victimisation have been found to mediate the association between the presence of a chronic condition and anxiety or depression (Adams, Chien and Wisk, 2019, Brady, Deighton and Stansfeld, 2020). Therefore, it is possible that the social isolation and alienation resulting from the presence of a chronic or life-limiting condition has more of an influence on a child or young person's mental health than the severity of the symptoms associated with the condition.

3.4.2 Strengths & Limitations

There are a number of strengths of this review. Namely, it is the first systematic review to assess factors associated with anxiety and depression in children and young people with life-limiting conditions. In addition, the comprehensive search strategy used allowed for the identification and inclusion of all relevant studies. Although a meta-analysis was not possible, the use of best evidence synthesis methodology allowed for a comprehensive review of the evidence base, using the key domains required to rate the strength of evidence (West et al., 2002).

It is important to note, however, that limitations in the research base limited the strength of the conclusions which could be drawn from this review. First, the range of life-limiting conditions which have been studied is narrow, and there is a significant under-representation of studies assessing children and young people with neurological conditions. This limits the ability to generalise the results of this review to children and 86

young people with other life-limiting conditions. Additionally, it means that some factors, or categories of factors, have only been investigated in one diagnostic group, such as coping style, which has only been explored in cystic fibrosis.

The methodological limitations of the included studies further limit the conclusions that can be drawn from the review. Many of the studies had very small sample sizes, and none justified the sample sizes that were used. Therefore, these studies may have been underpowered to detect existing associations. Several studies also did not justify the rationale for investigating certain factors as risk or protective factors for anxiety or depressive symptoms, limiting the understanding of the results from such analyses. Many of the included studies also did not use multivariable analysis, reducing the validity of their findings, particularly given the interdependence of the factors associated with anxiety and depressive symptoms. In addition, most of the studies used a cross-sectional design, therefore the temporality of the associations could not be explored in these studies. Finally, most of the assessment tools used in the studies have not been validated for use in children and young people with life-limiting conditions, thereby potentially reducing the validity of the findings reported by the studies (Thabrew et al., 2017).

3.5 Chapter Summary

This chapter has outlined the systematic review and best evidence synthesis conducted to identify the factors that have been found to be associated with anxiety and depressive symptoms among children and young people with life-limiting conditions, as set out in the second objective of this thesis. This review found conflicting evidence for associations between some sociodemographic factors, such as age and socioeconomic status, and symptoms of anxiety or depression. Conflicting evidence was also shown for an association between sex and anxiety symptoms, whereas no evidence was found for an association between sex and depressive symptoms. In addition, no evidence was found for associations between disease severity and symptoms of anxiety and depression. Limited evidence was shown for the protective roles of optimism and acceptance in the development of anxiety and depressive symptoms, respectively. However, many of the studies included in the review had very small sample sizes and therefore may have been underpowered to detect existing associations. Furthermore, the range of life-limiting conditions studied was narrow. The next chapter will describe the methods used to conduct a comparative cohort study, in order to explore the incidence of anxiety and depression, and the associated risk and protective factors, among children and young people with life-limiting conditions, chronic conditions or no long-term conditions.

<u>Chapter 4: The Incidence of Anxiety and Depression in Children and</u> <u>Young People with Life-Limiting Conditions, Chronic Conditions or No</u> <u>Long-Term Conditions: A Comparative Cohort Study – Methods</u>

4.1 Introduction

The systematic reviews described in Chapters 2 and 3 demonstrated the limitations of the existing research into the epidemiology of anxiety and depression among children and young people with life-limiting conditions, which has focused on a narrow range of life-limiting conditions using mainly small cross-sectional studies. Consequently, the results of these studies cannot reliably be generalised to the whole population of children and young people with life-limiting conditions, and therefore the epidemiology of anxiety and depression in this population cannot reliably be compared to that observed among the general population of children and young people. Therefore, this chapter describes the methods used to conduct a longitudinal, comparative cohort study in order to address objectives 3 and 4 as outlined in Chapter 1:

- To use primary and secondary healthcare data from England to analyse the incidence of anxiety and depression in children and young people with life-limiting conditions and compare this to the incidence among those with chronic conditions and those with no long-term conditions
- To use primary and secondary healthcare data from England to examine what factors are associated with the incidence of anxiety and depression in children and young people with life-limiting conditions, and to explore whether these associations differ from those found among children and young people with chronic conditions and those with no long-term conditions

These objectives were met by answering the following research questions:

- What is the incidence of anxiety in children and young people with life-limiting conditions and how does this compare to the incidence in children and young people with chronic conditions or no long-term conditions?
- 2. What is the incidence of depression in children and young people with lifelimiting conditions and how does this compare to the incidence in children and young people with chronic conditions or no long-term conditions?

- 3. What is the incidence of anxiety and/or depression in children and young people with life-limiting conditions and how does this compare to the incidence in children and young people with chronic conditions or no long-term conditions?
- 4. What factors are associated with the incidence of anxiety in children and young people with life-limiting conditions and how do these compare to the factors associated with the incidence of anxiety in children and young people with chronic conditions or no long-term conditions?
- 5. What factors are associated with the incidence of depression in children and young people with life-limiting conditions and how do these compare to those associated with the incidence of depression in children and young people with chronic conditions or no long-term conditions?
- 6. What factors are associated with the incidence of anxiety and/or depression in children and young people with life-limiting conditions and how do these compare to those associated with the incidence of anxiety and/or depression in children and young people with chronic conditions or no long-term conditions?

The results of these analyses are described in Chapter 5.

4.2 Data Sources

4.2.1 Clinical Practice Research Datalink (CPRD)

Data for this study was sourced from the Clinical Practice Research Datalink (CPRD) and linked datasets. The CPRD is one of the largest longitudinal primary care databases in the world, with data from over 50 million patients registered at over 1,900 primary care practices in the UK (CPRD, 2020c). Patients within CPRD are broadly representative of the UK population regarding age, sex, and ethnicity (Herrett et al., 2015). Furthermore, the validity of recorded diagnoses in CPRD has been found to be very high (Herrett et al., 2010).

The current study used data from CPRD GOLD, which contains data from practices that use Vision[®] software. In order to access CPRD data, approval must first be gained from CPRD's Independent Scientific Advisory Committee (ISAC). The ISAC application for this study was submitted as part of a wider study investigating the health of mothers of children and young people with a life-limiting condition (CPRD ISAC reference number 16_877) (Fraser et al., 2020b).

After approval has been obtained from ISAC, the data from CPRD is provided to researchers as a set of ten pseudonymised data files, whereby each patient in the dataset is assigned a unique patient identifier by CPRD, which allows their information to be linked across the data files. The last three numbers of the patient identifier indicate the pseudonym of the practice at which the patient is registered. An overview of the data contained in each file is shown in Table 24.

| File Name | Data Included in File |
|-----------------------------|---|
| Patient | Patient identifier, registration information and basic |
| Fatient | demographic data |
| Practice | Practice identifier, practice region, last collection date and up |
| Flactice | to standard date for the practice |
| Staff | Details of staff at practice |
| Consultation | Details regarding type of consultation |
| Clinical | Medical data, including diagnoses and symptoms, coded using |
| Clinical | Read codes |
| Additional Clinical Details | Additional information regarding medical data |
| Referral | Information regarding patient referral to external care centres |
| Immunisation | Details of immunisations |
| Test | Details of medical tests |
| Thorapy | Prescription details including product name and British National |
| Therapy | Formulary code |

Table 24. Summary of data included in CPRD data files

Registration Information

Two registration dates are provided for each patient in the dataset. The 'First Registration Date' refers to the date at which the patient first registered with the practice. However, as patients can transfer out of the practice and then later reregister at the practice, the 'Current Registration Date' is also important as this refers to the date at which the patient's current period of registration with the practice began. If a patient does not have any 'transfer out periods' then their Current Registration Date is the same as their First Registration Date (Figure 9).

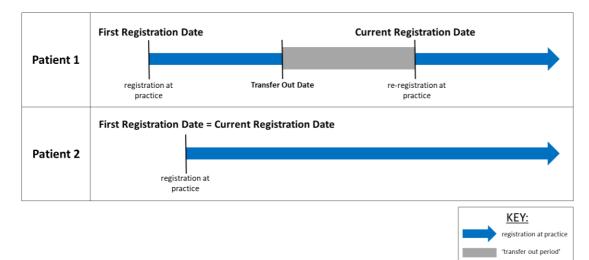


Figure 9. Diagram displaying registration scenarios for two patients within CPRD Patient 1 registers at practice, transfers out and then re-registers, therefore their Current Registration Date is different to their First Registration Date. Patient 2 registers at practice and does not transfer out, therefore their Current Registration is the same as their First Registration Date.

Practice Data Collection Information

For each practice an 'Up To Standard Date' is provided, which is the date at which the practice data is deemed to be of research quality, and is derived using an algorithm that primarily assesses the recording of deaths and gaps in the data at the practice. The last data collection date for each practice is also provided, named the 'Last Collection Date'.

Medical information

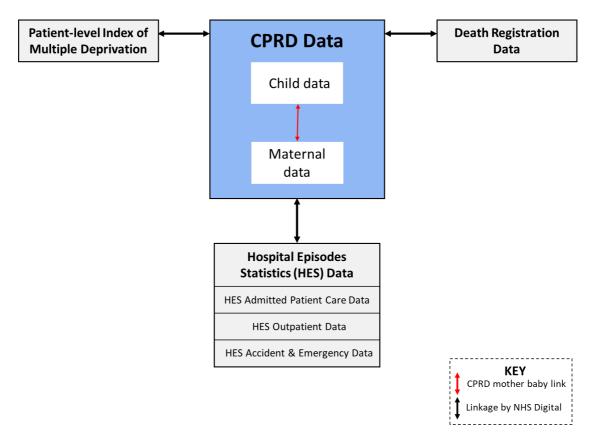
In primary care, medical information is recorded using the Read coding system, which was developed by Dr James Read in the 1980s and is now used by GPs throughout the UK (Booth, 1994). Each Read code maps to a health-related concept such as a diagnosis or symptom, and forms a hierarchical structure (Booth, 1994). Each Read code has been mapped to a 'medcode', a numeric identifier, by CPRD which is provided in the clinical file (Figure 10).

| Medcode | | Readcode | Description |
|---------|----------|----------|----------------|
| 636 | ∢ | E200.00 | Anxiety states |
| 4069 | | E200100 | Panic disorder |

Figure 10. Example of medcodes mapped to Read codes by CPRD, as shown by red arrows

4.2.2 Linked Data

The CPRD can also provide linkage to other health-related and demographic datasets for patients from consenting practices. Currently, approximately 74% of CPRD GOLD practices in England consent to these linkages (CPRD, 2020a). The actual linkage is performed by NHS Digital, who identify matches using a combination of NHS number, sex, date of birth, and postcode (Padmanabhan et al., 2019). The following linked datasets were available for use in this study (Figure 11).





Hospital Episode Statistics (HES) Data

Hospital Episode Statistics (HES) contain data on all NHS hospital admissions (HES Admitted Patient Care data), outpatient appointments (HES Outpatient data), and attendances to Accident and Emergency (HES A&E data) in England. The quality of HES data has been assessed in two systematic reviews, which found a high level of coding accuracy in HES data, supporting its use in epidemiological research (Burns et al., 2012, Campbell et al., 2001).

HES Admitted Patient Care data contain information on NHS hospital admissions. A hospital admission is defined as "any secondary care-based activity that requires a

hospital bed, thereby including both emergency and planned admissions, day cases, births and associated deliveries" (Herbert et al., 2017). Each row within the HES APC data file represents a 'Finished Consultant Episode' (FCE), which indicates a continuous period under the care of one consultant. For each FCE, key clinical and admission data is available such as diagnoses, procedures, and episode start and end dates. Diagnostic information in HES is recorded using ICD-10 (International Statistical Classification of Diseases and Related Health Problems – 10th revision) codes.

HES Outpatient data contain details of outpatient appointments, including dates, type of consultation, referral source, waiting time, treatment speciality, and some diagnostic information. HES A&E data contain information regarding accident and emergency care, such as diagnostic type, treatment waiting time, and referral source.

Death Registration Data

Death registration data from the Office for National Statistics (ONS) contain information on the date and place of death, in addition to the cause of death, which is coded using ICD-10 codes (CPRD, 2020b).

Index of Multiple Deprivation 2010

The Index of Multiple Deprivation 2010 (IMD 2010) is a composite measure of seven types of neighbourhood deprivation; income, employment, health, education, housing and services, living environment, and crime (Department for Communities and Local Government, 2011). England is divided into over 30,000 Lower Layer Super Output Areas (LSOA), representing geographical areas which each have a minimum population of 1,000 persons (NHS, 2020, Office for National Statistics, 2011). An IMD score is calculated for each LSOA, meaning each LSOA can be ranked by relative deprivation. This IMD data is provided by CPRD as a linked patient-level dataset, based on the LSOA

Maternal Data

CPRD has also enabled the linkage of child data to maternal data using the CPRD Mother Baby Link. Family members can be identified in CPRD using the practicespecific family number. This number, in combination with the practice number, is used by CPRD to match babies to their mothers. In order to reduce misclassification bias, maternal and child records are only retained within the CPRD Mother Baby Link if the birth date recorded in the child's data occurred within 60 days of the delivery date recorded in the mother's data (CPRD, 2017).

4.3 Cohort Identification

4.3.1 Original Cohort

The original cohort was obtained primarily for the aforementioned wider study investigating maternal health (Fraser et al., 2020b). This section describes the cohort identification process performed by CPRD to create the original cohort, whilst the next section describes the modifications made to the original cohort in order to make it suitable for the current study. Children and young people were grouped into three categories: those with a life-limiting condition, those with a chronic physical or mental condition that is not life-limiting, such as diabetes or asthma, and those with no longterm physical or mental condition. Assignment to groups was based on data in either primary or secondary care; children and young people with life-limiting conditions and those with chronic conditions were identified using previously developed Read code and ICD-10 code lists, the development of which is described elsewhere (Fraser et al., 2012, Hardelid, Dattani and Gilbert, 2014). The code lists used can be found in Appendix 5 (life-limiting condition codes) and Appendix 6 (chronic condition codes). Children and young people in the life-limiting condition group (cases) were matched to one child or young person in the chronic condition group and up to two children or young people in the no long-term condition group (controls) by sex, year of birth, and region.

The first step of the cohort identification process was the creation of a source population, by CPRD. Children and young people were included in the source population if they met the following criteria:

- Child or young person had eligibility for HES, death registration data, and patient-level Index of Multiple Deprivation data linkage
- Included as babies in the CPRD Mother Baby link
- Mother had eligibility for HES, death registration data, and patient-level Index of Multiple Deprivation data linkage
- Child or young person and mother were registered at a CPRD practice during the study period (1st April 2007 to 31st December 2017)

 Mother had at least one year of up-to-standard data records within the study period

Children and young people were then allocated to each of the condition groups, as per the identification process displayed in Figure 12.

The sample size calculation performed was primarily for the aforementioned maternal health study, based on 80% power and 5% significance to detect an incidence rate ratio of 1.4, with the mean incidence rate of maternal anxiety/depression reported to be 0.03. This indicated that each condition group must include a minimum of 3260 children or young people (Fraser et al., 2020b). As the incidence of anxiety and depression in children and young people is also reported to be approximately 0.03, this sample size calculation is also valid for the current study (Walters et al., 2012, Wijlaars, Nazareth and Petersen, 2012).

4.3.2 Modified Cohort (Study Sample)

Some modifications were needed in order for the cohort to be suitable for use in the current study. First, the original cohort included children from birth, however the identification of mental health conditions in preschool children is challenging due to the lack of appropriate diagnostic systems for children in this age range, who typically experience rapid developmental changes (Egger and Angold, 2006). Therefore, children were only included in the study when they reached five years of age. This is in line with the age ranges of the included studies in the meta-analysis (Chapter 2), none of which included pre-school children.

Additionally, diagnoses of anxiety and depression were categorised as chronic conditions in the original cohort. As anxiety and depression were the outcomes of interest in the current study, they needed to be removed from the chronic condition list used in this study. Therefore, any children or young people originally in the chronic condition group who did not have chronic conditions other than anxiety or depression were moved to the no long-term condition group. This modified cohort made up the study sample for the current study.

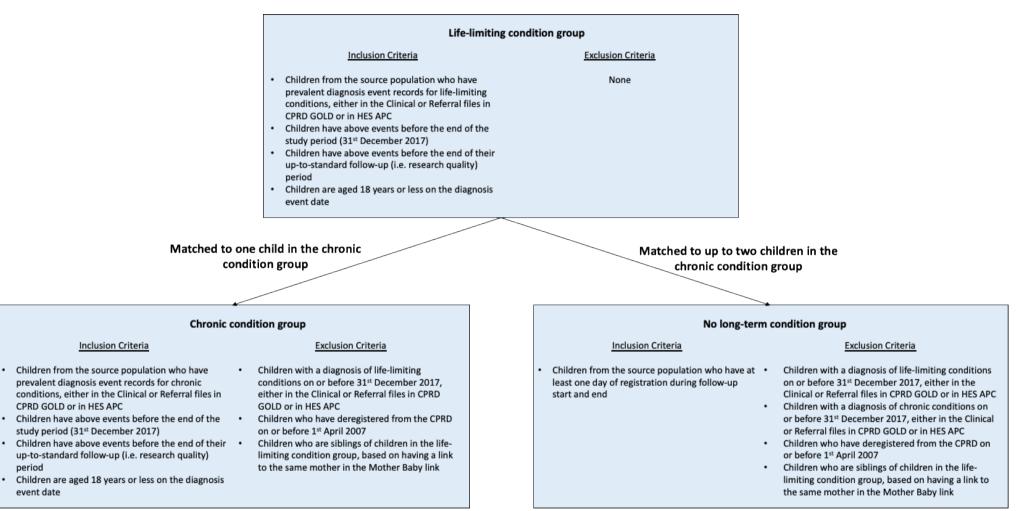


Figure 12. Diagram showing the process used to identify the original cohort Matching based on sex, year of birth and region.

period

event date

4.3.3 Entry & Exit Dates

Children and young people became eligible for the study at the latest of the following dates, which was termed their 'entry date':

- Practice up-to-standard date
- Month after first/current registration date
- Study start date (1st April 2007)
- Date child turned five years old
- Date of diagnosis of life-limiting condition/chronic condition (if appropriate)

The first month of registration was excluded from the follow-up time, as it has been shown that incidence rates can be overestimated during this period due to patients seeking medical care for prevalent conditions that are not yet recorded in their clinical records (Wijlaars, Nazareth and Petersen, 2012).

Children and young people became ineligible for the study at the earliest of the following dates, termed their 'exit date':

- Practice last collection date
- Date child or young person transferred out of practice
- Date of death
- Study end date (31st September 2017)
- Date child or young person turned 19 years old

Therefore, although the children and young people in the life-limiting condition group (cases) were matched by year of birth to those in the chronic condition and no long-term condition groups (controls), the entry and exit dates for cases may differ from those of their controls (Figure 13). This in turn meant that the age distributions for the three condition groups could differ. As shown in Figure 13, although the study started on 1st April 2007, all CPRD and HES data were available for each child or young person, including data from before their CPRD registration date. Therefore, these data could be used to ascertain the date of life-limiting/chronic condition diagnosis even if this occurred before the child or young person registered with CPRD.

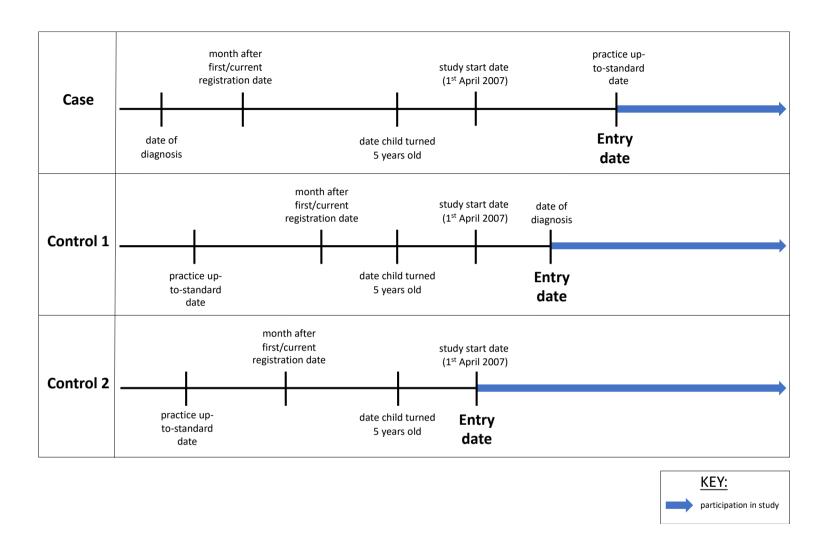


Figure 13. Diagram showing difference in start dates between a case and their matched controls

Case enters study on the date that data from their practice becomes up-to-standard (after study start date). Control 1 enters study on the date that their chronic condition was diagnosed (after study start date). Control 2 enters study on the study start date.

4.4 Identification of Anxiety and Depression

Anxiety and depression among children and young people have been found to be under-reported in primary care (Sheldrick, Merchant and Perrin, 2011). Therefore, it was important that various indicators of anxiety and depression from the primary and secondary care datasets were included in order to detect as many true cases of anxiety and depression as possible. Three broad types of codes were used to identify anxiety and depression in this study: diagnostic, symptom, and prescription codes. Therefore, code lists for each of these types of codes needed to be generated for this study.

4.4.1 Read Code Lists

Each Read code within CPRD maps to a single medical construct such as a diagnostic term or symptom. However, for any given condition, such as anxiety, numerous Read codes are used. These range from specific diagnostic codes, for example in the case of anxiety, referring to "generalised anxiety disorder", to more nuanced symptoms such as "fear". Therefore, in order to identify all potential cases of depression or anxiety in the dataset, a highly comprehensive code list for each condition was required. The Read code lists for depression and anxiety used in this study were generated using STATA, following a previously published method (Davé and Petersen, 2009).

To produce the anxiety Read code list, first a list of words associated with anxiety was created, including terms such as 'anxiety' 'panic', 'phobia', and 'worry'. The full list of existing Read codes was then mined for codes which included these terms in their descriptors, identifying 434 codes. However, some Read codes relating to anxiety do not include any of the selected key words in their descriptors, such as "tenseness". Therefore, common stems in the identified codes were explored. For example, 1B12.11 is the code for 'nerves', so by searching for other codes beginning with 1B1, the code for tenseness (1B14.00) could be identified. Finally, irrelevant codes were excluded; these were codes which contained the key words but did not relate to anxiety, such as "tympanic membrane perforation". In addition, any codes relating to a history of anxiety, or anxiety in remission were removed, and any codes relating to mixed anxiety and depression were moved to the co-morbid code list. Codes relating to specific phobias such as animal phobias were also excluded, as without knowing the context and severity of the phobia it could have been problematic to assume that they

constituted an anxiety disorder, especially given the young age of some study participants. This resulted in the inclusion of 113 anxiety codes.

The depression Read code list was created using the same method, by first mining the full list of Read codes for codes including terms such as 'depression' and 'mood', identifying 228 codes. Common code stems were then explored, which resulted in the inclusion of additional codes such as "complaining of feeling unhappy". Irrelevant codes were removed, in addition to codes describing a history of depression or depression in remission, and co-morbid anxiety and depression codes were again moved to a separate list. Codes relating to perinatal depression were also removed, as it could not be determined whether these codes referred to the mother or the child/young person themselves. After the exclusion of these codes, 172 depression codes remained.

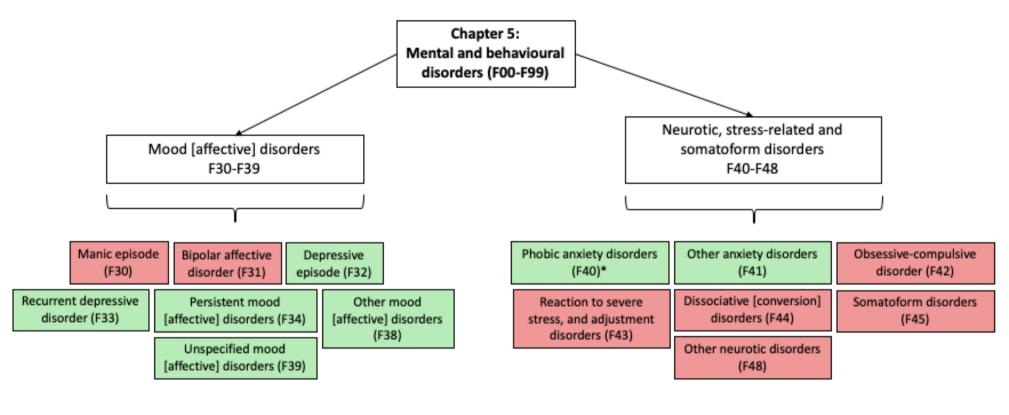
The anxiety and depression lists were then checked against lists generated by authors of previously published papers in order to identify any additional codes (Baker et al., 2017, Cornish et al., 2016, Prady et al., 2016, Rait et al., 2009, Smith et al., 2019, Wijlaars, Nazareth and Petersen, 2012). This led to the inclusion of five additional anxiety codes and six additional depression codes. Each code list was then split into three separate lists according to the type of code; diagnostic, symptom or screening tool code. A list of generic mental health Read codes, such as "seen by child and adolescent mental health service", was also collated from the codes used in the aforementioned published papers. Finally, a list of suicide-related codes was created using the STATA method, in order to aid in the identification of depression cases. The code lists were subsequently checked by a GP, to ensure the validity of the included codes in the identification of anxiety and depression, and all codes were deemed to be appropriate.

4.4.2 ICD-10 & Other HES Code Lists

ICD-10 code lists for anxiety and depression were also generated in order to identify diagnoses in HES. Unlike the Read coding system, which contains codes referring to symptoms and screening tools as well as diagnoses, ICD-10 only contains diagnostic codes. Both anxiety and depression are contained within ICD-10 Chapter V: mental and behaviour disorders. Each chapter of ICD-10 contains several *blocks* which in turn

contain numerous diagnostic codes, or categories. The blocks containing depression and anxiety diagnostic codes are "Mood [affective] disorders" and "Neurotic, stressrelated and somatoform disorders", respectively. However, as each block refers to a broader set of disorders than depression and anxiety, some diagnostic categories had to be excluded. For example, the "Mood [affective] disorders" block also includes diagnostic categories which refer to an elation-related mood change. In addition, although the majority of diagnoses in the "Phobic anxiety disorders" category were included, "Specific (isolated) phobias" were excluded as per the anxiety Read code list. One code in the "Other anxiety disorders" category refers to "Mixed anxiety and depression disorder", therefore this was placed in the separate list for co-morbid depression and anxiety. Figure 14 shows the included and excluded diagnostic categories from ICD-10. These code lists were used to identify depression and anxiety diagnoses in both the HES APC and HES OP datasets, as although diagnoses in HES OP are poorly completed, the high level of under-reporting of anxiety and depression among children and young people in primary care meant that it was important to identify as many true cases as possible in the secondary care datasets. A list of suiciderelated ICD-10 codes was also compiled, which included all of the codes contained within the block named "Intentional self-harm".

HES OP also provides information on the treatment speciality related to each patient visit. Therefore, a list of mental health-related treatment speciality codes was compiled. Although full diagnostic information is not available in the HES A&E data, information on the type of diagnosis is available; "psychiatric conditions" is the only diagnostic type in the dataset which relates to mental health conditions, so only this code was included. All code lists used for the identification of anxiety and depression can be found in Appendix 7.



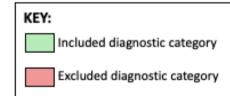


Figure 14. Included and excluded ICD-10 diagnostic categories for identification of anxiety and depression from HES APC and HES OP data *excluding F40.2 – Specific (isolated) phobias

4.4.3 Prescription Code Lists

Code lists were also generated to identify prescriptions of antidepressants, anxiolytics, and hypnotics in CPRD, utilising a similar method to that used to create the anxiety and depression code lists (Davé and Petersen, 2009). Prescriptions in CPRD are recorded using product codes, however each drug substance can have multiple product codes relating to different product names and dosages. For example, citalopram, a common antidepressant, has 70 different product codes.

To overcome the issue of multiple product codes, the British National Formulary (BNF) coding system was used to identify drugs. BNF codes are categorised into BNF chapters according to the specific bodily system that the drug is used to treat; BNF chapter 4 contains all drugs relating to the central nervous system. Within this chapter, each section relates to a specific drug type; section 4.3 contains antidepressants, section 4.1.2 contains anxiolytics, and section 4.1.1 contains hypnotics. Therefore, STATA was used to search the CPRD product dictionary for all of the drugs contained within each of the three chapters, along with their respective product codes. However, antidepressants, anxiolytics and hypnotics can also be prescribed for conditions other than depression and anxiety, such as neuropathic pain, especially in children and young people with life-limiting conditions. As such, including all prescription records for these drugs could have dramatically reduced the specificity of the study's results, hence it was important to understand what additional indications each drug can be used for.

Therefore, the current British National Formulary (BNF) NICE guidelines for both children and adults were searched to create a list of indications for each of these drugs (National Institute for Health and Care Excellence (NICE), 2020a, 2020b) (Appendix 8). Indications for adults were included in this list as many drugs that are only indicated in adults are prescribed 'off-label' to children and young people (Allen et al., 2018). An important consideration that needed to be taken into account, however, was that many of the indications other than anxiety and depression for which some of these drugs are used, such as neuropathic pain, muscle spasms, and seizures, are far more likely to occur in children and young people with life-limiting conditions. Therefore, the likelihood of a drug being prescribed for anxiety or depression, rather than another indication, differs between the groups for some of the drugs, and thus including 104

prescriptions for these drugs in the analysis could have resulted in biased estimates which were not comparable across the three groups of children and young people. Consequently, the following analysis was conducted in order to generate a drug inclusion list for the study.

First, the number of children and young people prescribed each antidepressant, anxiolytic or hypnotic drug during the study period was calculated, by condition group. The records of these children and young people were then searched in order to identify how many of them had a recorded diagnosis or symptom of depression (or anxiety, if applicable) before the drug was prescribed. Drugs were subsequently excluded if one or more of the following applied:

- The drug was predominantly prescribed for children and young people with lifelimiting conditions
- The proportion of children and young people prescribed the drug who also had a diagnosis or symptom of depression/anxiety was very low
- The drug had multiple indications other than anxiety/depression

In order to further improve the specificity of the analysis, a list of exclusion Read and ICD-10 codes was then generated for each included drug, relating to its main indications other than depression (if included in the analysis of depression) or anxiety (if included in the analysis of anxiety). Code lists for these indications were generated using the previously described STATA method. Therefore, the following conditions must have been met in order for an antidepressant prescription code to be defined as a case of depression:

 Antidepressant prescription code AND no exclusion diagnostic codes before or within one month of the prescription AND no exclusion symptom codes within one month of the prescription

Similarly, for an antidepressant/anxiolytic/hypnotic code to be defined as a case of anxiety, the following conditions must have been met:

 Antidepressant/anxiolytic/hypnotic prescription code AND anxiety symptom code within one month AND no exclusion diagnostic codes before/within one month AND no exclusion symptom codes within one month

4.5 Anxiety and Depression Identification Algorithms

Varying levels of specificity regarding the three types of codes used (diagnostic, symptom, and prescription codes) necessitated the development of comprehensive algorithms in order to define when a case of anxiety or depression would be assigned (Figure 15, Figure 16).

4.5.1 Code Types

Diagnostic Codes

Diagnostic codes for anxiety or depression are specific, and therefore it can be assumed with some certainty that the recording of one of these codes represents a case of anxiety or depression. Referrals for anxiety or depression, identified by the appearance of a diagnostic or symptom code in the CPRD Referral file, were also assumed to represent a true case of anxiety or depression. Both diagnostic and referral codes were named 'diagnostic codes' for simplicity.

Symptom Codes

Symptom codes are more ambiguous, with anxiety symptom codes including symptoms such as "nerves" and "fear" and depressive symptom codes including symptoms such as "low mood" or "complaining of feeling unhappy". Therefore, it cannot be assumed with the same degree of certainty that the recording of these symptom codes represents a case of anxiety or depression, and subsequently the inclusion of single symptoms may have reduced the specificity of the analysis. However, it is very important that symptom codes are used in the detection of these mental health conditions as symptom codes have increasingly been utilised in favour of diagnostic codes to record anxiety and depression (Rait et al., 2009, Walters et al., 2012). This is likely to be even more important when assessing mental health conditions in children and young people as GPs can be unwilling to label them with mental health diagnoses (Sayal, 2006).

Previous studies analysing the incidence of anxiety or depression using Read codes have used different restrictions to specify when a symptom of anxiety or depression would be considered to indicate a case of anxiety or depression. For example, Smith et al., (2019) stated that for patients with a recorded symptom code but no recorded diagnostic code, the symptom code must have been coupled with a code indicating the prescription of an antidepressant or anxiolytic in order for a case of anxiety or depression to be assigned (Smith et al., 2019). However, as the prescription of antidepressants for children and young people is cautioned, this method could have resulted in a large degree of undercounting in this study population (National Institute for Health and Care Excellence (NICE), 2019a).

Instead, this study used a method employed in a previous study of adolescent depression, whereby a case of depression was assigned if an adolescent had at least two recorded depressive symptoms within one month (Wijlaars, 2014). NICE guidelines for the management of mild depression in children and young people recommend that if a child or young person presents with depression that is not severe enough to warrant treatment in the first instance, a subsequent assessment is arranged after a two week 'watchful waiting' period (National Institute for Health and Care Excellence (NICE), 2019a). Accordingly, if a depressive symptom is recorded in a child or young person's records then it is likely that another appointment would have been scheduled soon after in order to further assess their symptoms. If depression was still apparent at this second appointment then another symptom would have been recorded. Therefore, by ensuring that only children and young people who had two recorded depressive symptoms were included as depression cases, the specificity of the analysis was increased. As, in reality, the period of time between the two appointments may exceed two weeks, given the long waiting times experienced in primary care during the study period, a maximum time period of a month between the two recorded symptom codes was allowed in this study (Kelly and Stoye, 2014). The same logic was assumed for the identification of anxiety cases.

Anxiety and depression screening tool codes were also used in the identification of these conditions, however the dataset did not provide the results of these screening assessments. Therefore, the presence of a screening tool code must have been coupled with a symptom code within one month in order for a case of anxiety or depression to be assigned. Similarly, if a symptom of anxiety or depression was recorded within the same month as a generic psychological code then this was defined as a case of anxiety or depression, respectively. Generic psychological codes included the aforementioned generic mental health Read codes, the mental health-related treatment specialities in HES OP, and the "psychiatric conditions" diagnostic type in

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HES A&E. Although these codes contain no information about the specific mental health condition involved, if they were recorded within the same month as a symptom code for anxiety or depression it was assumed that the generic code was relating to anxiety or depression, respectively. Suicide codes were also analysed, as depression is a key risk factor for suicide. However, as other mental health conditions such as bipolar disorder are also associated with suicide, a suicide code needed to be coupled with a depression symptom code within the same month in order for a case of depression to be assigned (Turecki and Brent, 2016). All of the above examples were categorised as 'symptom codes' for simplicity.

Prescription Codes

Prescription codes were also used for the identification of anxiety and depression, as per the conditions specified in section 4.4.3.

4.5.2 'Anxiety and/or Depression' Outcome

Due to the high level of anxiety and depression co-morbidity in children and young people, which can often go unnoticed by healthcare practitioners, a third outcome was assessed: 'anxiety and/or depression' (Garber and Weersing, 2010, Melton et al., 2016). Cases of 'anxiety and/or depression' included children and young people specifically labelled with a comorbid anxiety and depression code, in addition to children and young people with one anxiety symptom code and one depressive symptom code recorded within one month. Cases of anxiety or depression, as defined in the algorithms displayed in Figure 15 and Figure 16 were also included as cases of 'anxiety and/or depression' as comorbidity could have been present but not recognised or recorded by the GP. The algorithm used to assign cases of 'anxiety and/or depression' is shown in Figure 17.

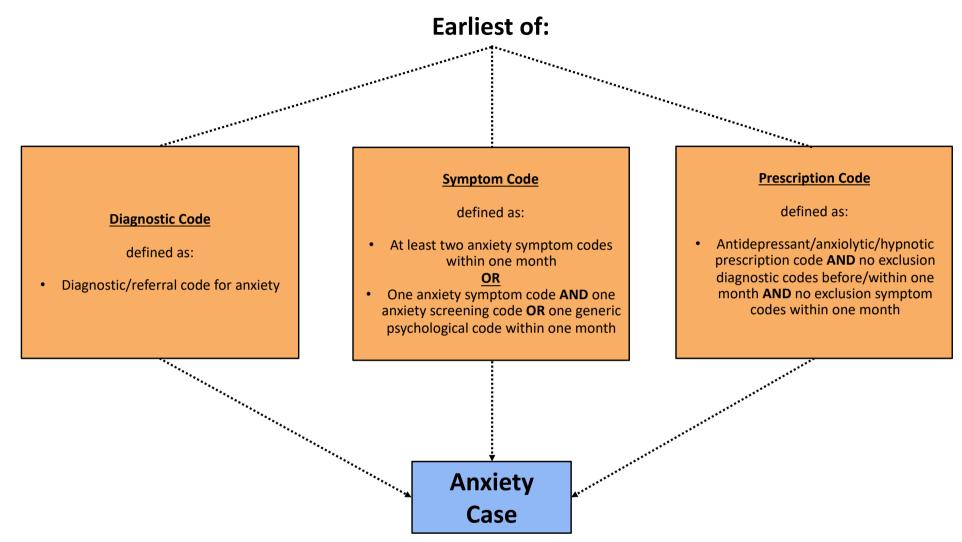


Figure 15. Algorithm showing the codes/combinations of codes and associated time restrictions used to define a case of anxiety

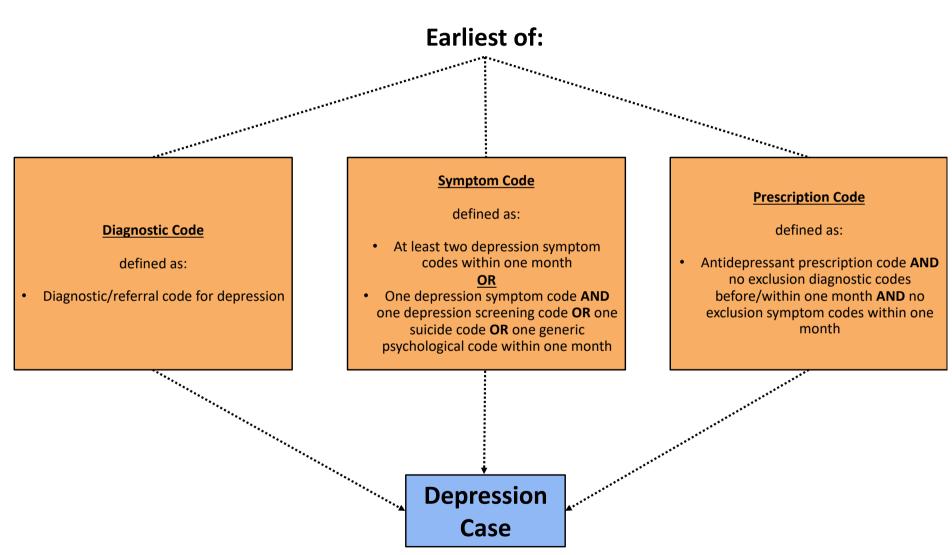


Figure 16. Algorithm showing the codes/combinations of codes and associated time restrictions used to define a case of depression

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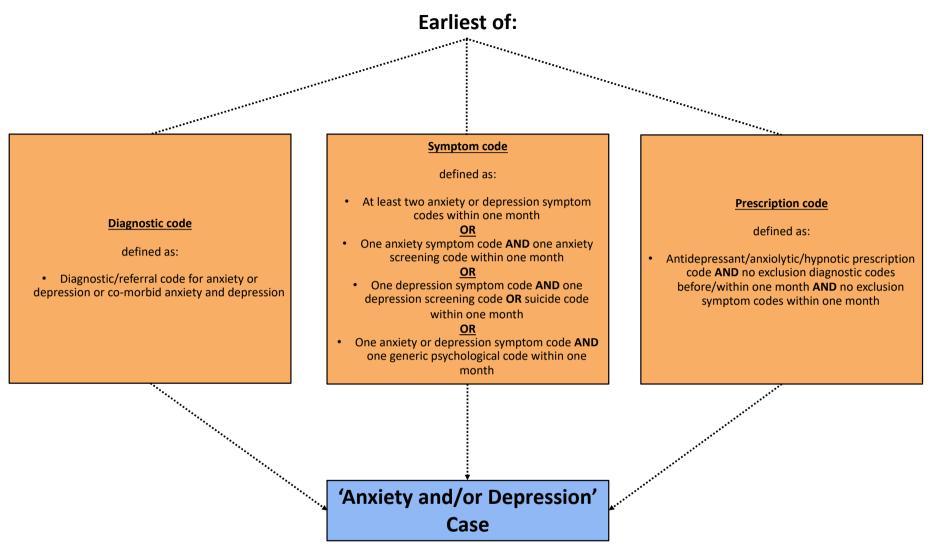


Figure 17. Algorithm showing the codes/combinations of codes and associated time restrictions used to define a case of 'anxiety and/or depression'

The earliest date at which anxiety, depression or 'anxiety and/or depression' was identified was defined as the date of onset of anxiety, depression or 'anxiety and/or depression', respectively.

4.5.3 Follow-up Time

Children and young people were followed-up from their entry date to their exit date. If a child or young person had a 'transfer out period' which occurred during their followup period, the total number of days of registration absence was subtracted from their follow-up time. For the calculation of incidence, the first event of the outcome of interest after the child's entry date was identified. Children and young people with no recorded events of the outcome of interest were followed up until their exit date.

Children and young people with prevalent cases of the outcome of interest, defined as a diagnostic or referral code relating to the outcome (anxiety or depression or 'anxiety and/or depression), recorded before their study entry date were excluded from that particular analysis.

4.6 Confounders & Mediators

Figure 18 shows the relationship between the exposure (condition group), the outcome (anxiety/depression), and the associated confounders and potential mediators available in the CPRD data. It is important to note that other factors may also mediate the association between condition group and anxiety/depression, such as coping style, as shown in Chapter 3. However, data relating to these factors were not available from CPRD. Age, sex, socioeconomic status, and ethnicity have all been shown to be associated with life-limiting conditions and anxiety/depression in numerous studies (Fraser et al., 2020a, Fraser et al., 2015, NHS Digital, 2018b), therefore they are confounders to the association between exposure and outcome.

GP visit frequency is also associated with the recording of mental health conditions such as depression, as an increase in the number of GP visits provides more opportunities for depression to be detected (Koning et al., 2019, Richardson et al., 2010, Walters et al., 2011). As children and young people with life-limiting or chronic conditions are likely to need more frequent primary care consultations, GP visit frequency is a potential mediator of the relationship between condition group and anxiety/depression (Jarvis et al., 2020). Exposure to maternal mental health conditions is another potential mediator in this study as maternal mental health conditions have been found to mediate the association between chronic physical illness and symptoms of anxiety and depression in children and young people (Ferro and Boyle, 2015).

The question of whether matching variables should be adjusted for in the analyses of cohort studies has received some debate in the literature. It has been argued that adjusting for matching variables is not necessary as the matching process renders the matching variable independent of the exposure, and therefore the matching variable is no longer a confounder (Mansournia, Hernán and Greenland, 2013, Sjölander and Greenland, 2013). However, this argument only holds true when one does not adjust for any additional confounders, as adjusting for confounders other than the matching variables 'breaks' the matching by introducing an association between the matching variable and the exposure. Therefore, if additional confounders are adjusted for then the matching variables should also be adjusted for in the analysis (Mansournia, Hernán and Greenland, 2013, Sjölander and Greenland, 2013, Sjölander and Greenland, 2013). Therefore, age and sex, both matching variables, were adjusted for in the current study.

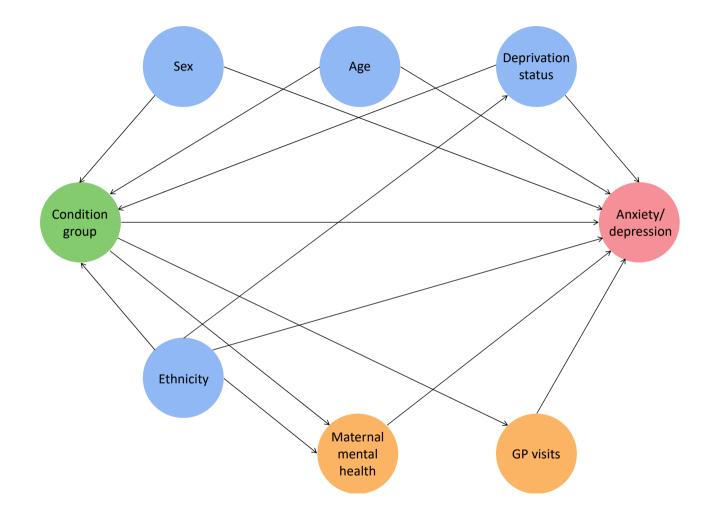


Figure 18. Figurative representation showing the associations between exposure (condition group), outcome (anxiety/depression), confounders (sex, age, deprivation status and ethnicity) and potential mediators (maternal mental health and GP visits) Confounders are displayed in blue circles, potential mediators are displayed in orange circles. Diagram only shows variables that are available in CPRD data.

4.6.1 Variable Generation

<u>Sex</u>

Information regarding the child or young person's sex was available using the sex variable found in the CPRD patient file, which had four categories: Male, Female, Indeterminate, and Unknown.

Age at Study Entry

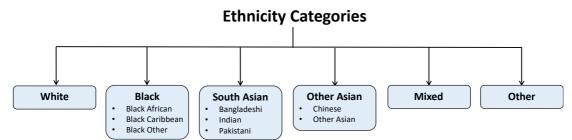
In order to calculate the child or young person's age at study entry, their date of birth was first generated from the year of birth and month of birth variables found in the CPRD patient file. Year of birth was available for all children and young people, and month of birth was available for the majority. Where the month of birth was not available, the child or young person's month of birth was set to June. As the day of birth was not available for any of the children and young people, their day of birth was set to the 15th day of the month. Each child or young person's date of birth was then subtracted from their study entry date to provide their age at study entry.

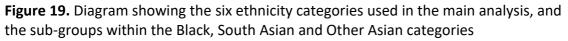
Deprivation Status

Deprivation status was assessed using the linked patient-level index of multiple deprivation 2010 data, split into five groups, ranked from category 1 (least deprived) to category 5 (most deprived).

Ethnicity

Ethnicity data was available from the HES APC, A&E, and OP datasets. The ethnic groups used in the analysis were based on the hierarchical ethnicity classifications from the UK 2011 census, which categorises ethnicity into five groups: White, Black, Asian, Mixed, and Other (Office for National Statistics, 2015). However, research has shown that South Asian populations are underrepresented within the healthcare setting, and are therefore likely to have missed mental health diagnoses. Consequently, in this study children and young people from South Asian (Indian, Pakistani and Bangladeshi) ethnic groups were grouped separately to those of other Asian ethnicities (Chinese and Other Asian) in order to assess whether the incidence of anxiety and depression differed significantly between the two Asian categories (Goodman, Patel and Leon, 2008, Prady et al., 2016). Therefore, six ethnicity categories were used in the main analysis; White, Black, South Asian, Other Asian, Mixed and Other (Figure 19).





Annual GP Visits

In order to calculate annual GP visits, the total number of attendances at a GP for each child or young person during their follow-up time was required. This information was available in the CPRD consultation file, along with the type of consultations that were attended. As well as clinic visits to the GP, phone consultations with a GP were also included in this study as 'GP visits', as it is likely to be challenging for some of the children and young people, especially those with life-limiting conditions, to physically attend GP consultations if they are feeling unwell. The total number of attendances at a GP between the entry date and either the occurrence of the outcome of interest (anxiety or depression or 'anxiety and/or depression') or the exit date was counted for 116

each child or young person, and then divided by their total follow-up time to provide the number of GP visits per year.

Maternal Mental Health Conditions

Previous research in both the general population and among children and young people with chronic conditions has shown that maternal mental health conditions are a key risk factor for the development of mental health conditions in children and young people (Ferro and Boyle, 2015, Goodman et al., 2011, Rasic et al., 2014). Therefore, the inclusion of data relating to the presence or absence of maternal mental health conditions was important for this analysis. Maternal mental health conditions were classified into two categories: common mental health disorders and severe mental illness. Common mental health disorders include conditions such as anxiety, depression, obsessive-compulsive disorder (OCD), and post-traumatic stress disorder (PTSD) (National Institute for Health and Care Excellence (NICE), 2011). The exact definition of severe mental illness, along with the conditions it encompasses, has been heavily debated with no overall consensus reached (Martínez-Martínez, Richart-Martínez and Ramos-Pichardo, 2020). Although historically, severe mental illness was used to refer to schizophrenia, bipolar disorder and other psychotic disorders, recently there has been a call for the additional inclusion of personality disorders (Ayre, Owen and Moran, 2017, Hardoon et al., 2013, Shah, 2020). Therefore, in this study personality disorders were classified within severe mental illness, along with affective psychotic disorders (including bipolar disorder) and non-affective psychotic disorders (including schizophrenia).

The Read code, ICD-10 code, and prescription lists used to identify maternal mental health conditions in the current study were based on previously published lists, and can be found in Appendix 9 (Abel et al., 2019). Maternal severe mental illness was defined by the appearance of one of the following types of codes in the mother's record:

- a diagnostic Read code for a severe mental illness in the CPRD clinical file
- a diagnostic or symptom Read code for a severe mental illness in the CPRD referral file
- an ICD-10 code for a severe mental illness in the HES APC or HES OP files
- a prescription code for either antipsychotics or mood stabilisers

Maternal common mental health disorders were identified using a similar method, however as antidepressants, anxiolytics and hypnotics have multiple indications, a symptom code for depression or anxiety, respectively, must have been recorded within three months of the prescription code in order for the mother to be identified as having had a common mental health disorder.

Mothers were followed-up from two years before their child's birth to either the occurrence of the outcome of interest (anxiety or depression or 'anxiety and/or depression') in the child or young person or the child or young person's exit date. A variable was then generated to indicate whether a child or young person had been exposed to maternal mental health conditions. This variable had three levels: 0 = no exposure, 1 = exposure to common mental health disorders, 2 = exposure to severe mental illness.

4.7 Statistical Analysis

4.7.1 Descriptive Analysis

The distributions of variables were described according to diagnostic group. The distributions of the confounders (sex, age at study entry, ethnicity, and deprivation status) by condition group were assessed in both the original cohort and the modified cohort, whereas the distributions of the potential mediators (annual GP visits and exposure to maternal mental health conditions) were only explored in the modified cohort. For the purpose of these general descriptive statistics, the child or young person's study exit dates were used in the construction of the two mediating variables, and the occurrence of an outcome (anxiety or depression or 'anxiety and/or depression') was not taken into account.

For continuous variables (age at study entry, annual GP visits) the mean and standard deviation were calculated if the variable was normally distributed, while the median and interquartile range (IQR) was used if the variable did not follow a normal distribution. For categorical variables (sex, ethnicity, deprivation status, exposure to maternal mental health conditions) the proportion of children and young people in each category was calculated. The proportion of missing data was also calculated for all variables. The differences in variable distributions between condition groups were tested for significance using chi-squared tests for categorical variables and either a one-way ANOVA or a Kruskal-Wallis test for continuous variables, depending on the distribution of the data.

4.7.2 Incidence Calculations

Cumulative incidence of anxiety, depression and 'anxiety and/or depression' was calculated by dividing the number of new cases of the outcome of interest during the study period by the total number of children and young people at risk from the specific outcome (Rassen et al., 2019). 95% confidence intervals were calculated using the exact method.

Crude incidence rates per 1,000 person-years, and 95% confidence intervals (CIs), were calculated separately for anxiety, depression and 'anxiety and/or depression' by dividing the number of incident cases by the total person-time contributed by children and young people during the study in relation to that outcome. Incidence rates were calculated for the total study sample and stratified by condition group, age, sex, ethnicity, deprivation status, and exposure to maternal mental health conditions.

4.7.3 Regression Modelling

Poisson regression modelling was used to calculate crude and adjusted incidence rate ratios (IRRs). Poisson regression assumes the poisson distribution, in which the mean is equal to the variance; if this assumption is violated and the variance is greater than the mean then the data is said to be overdispersed and poisson regression should not be used (Dunteman and Ho, 2011). Therefore, the data used in the current study first needed to be checked for overdispersion, before poisson regression was performed. This was done by running a negative binomial regression, which provides a likelihood ratio test comparing the negative binomial model to the poisson model. If the negative binomial model does not have a significantly better fit to the data than the poisson model then the null hypothesis of no overdispersion should be accepted and the poisson model should be used (Osbrne, 2008). As such, tests for overdispersion were conducted for each model used, the results of which are presented in Appendix 10.

Research Questions 1-3

The Poisson regression models used to address research questions 1-3 are shown in Table 25. Models 1A, 2A and 3A only included the aforementioned confounders (age, sex, ethnicity, and deprivation status). Models 1B, 2B and 3B included the confounders

and exposure to maternal mental health conditions, and models 1C, 2C and 3C included all of the confounders and both potential mediators (maternal mental health conditions and annual GP visits). Models for each research question were compared using the Bayesian Information Criterion (BIC) (Neath and Cavanaugh, 2012). Models 1C, 2C and 3C were also performed excluding individuals with missing ethnicity data in order to assess whether this altered the conclusions generated from the results of the models.

Research Questions 4-6

All of the aforementioned confounders and mediators represent potential risk or protective factors for anxiety or depression. In order to compare the effect of these factors on anxiety and depression incidence between condition groups, and therefore answer research questions 4-6, Models 1C, 2C and 3C were also performed stratified by condition group (Table 25). Two ethnic groups: White and Other were used in Models 4-6 due to the small numbers of children and young people in each of the separate Other ethnic categories used in Models 1-3.

Sensitivity Analysis

Sensitivity analysis was performed in order to investigate the assumption of linearity between age and the incidence of anxiety/depression made in the main analysis. This sensitivity analysis consisted of two flexible parametric survival models. These models use restricted cubic splines, allowing for complex hazard functions to be modelled, unlike Cox models (Royston, 2001, Syriopoulou et al., 2019). Additionally, flexible parametric survival models allow for the incorporation of time-dependent effects. In Supplementary Model 1, age was included as a time-varying covariate, allowing age to vary over follow-up time. In Supplementary Model 2, age at the event of interest (anxiety/depression event or right censoring) was used as the timescale instead of follow-up time, in order to allow anxiety incidence to vary by age, in a non-linear manner (Lambert and Royston, 2009). As variations in anxiety incidence have been found by calendar time, year of birth was also included as a covariate in both models (NHS Digital, 2018c).

All analyses were conducted using STATA version 16.1 and two-sided statistical significance was pre-specified at $p \le 0.05$.

Table 25. Poisson regression models generated to answer research questions

| Research Question | Model Name | Exposure | Outcome | Covariates |
|---|------------|-----------------|------------------------------|---|
| 1) What is the incidence of anxiety in children and | Model 1A | Condition group | Anxiety | Age, sex, ethnicity, deprivation status |
| young people with life-limiting conditions and how does this compare to the incidence in | Model 1B | Condition group | Anxiety | Age, sex, ethnicity, deprivation status, maternal mental health |
| children and young people with chronic conditions or no long-term conditions? | Model 1C | Condition group | Anxiety | Age, sex, ethnicity, deprivation status, maternal mental health, annual GP visits |
| 2) What is the incidence of depression in children | Model 2A | Condition group | Depression | Age, sex, ethnicity, deprivation status |
| and young people with life-limiting conditions and how does this compare to the incidence in | Model 2B | Condition group | Depression | Age, sex, ethnicity, deprivation status, maternal mental health |
| children and young people with chronic conditions or no long-term conditions? | Model 2C | Condition group | Depression | Age, sex, ethnicity, deprivation status, maternal mental health, annual GP visits |
| 3) What is the incidence of anxiety and/or | Model 3A | Condition group | Anxiety and/or depression | Age, sex, ethnicity, deprivation status |
| depression in children and young people with life-limiting conditions and how does this compare to the incidence in children and young people with chronic conditions or no long-term conditions? | Model 3B | Condition group | Anxiety and/or depression | Age, sex, ethnicity, deprivation status, maternal mental health |
| | Model 3C | Condition group | Anxiety and/or depression | Age, sex, ethnicity, deprivation status, maternal mental health, annual GP visits |

| Research Question | Model Name | Exposure | Outcome | Covariates |
|---|--|---|------------------------------|---|
| What factors are associated with the incidence of anxiety in children and young people with life-limiting conditions and how do these compare to the factors associated with the incidence of anxiety in children and young people with chronic conditions or no long-term conditions? | Model 1C stratified by condition group | Age, sex, ethnicity, deprivation status, maternal mental health, annual GP visits | Anxiety | Age, sex, ethnicity, deprivation status, maternal mental health, annual GP visits |
| 2) What factors are associated with the incidence of depression in children and young people with life-limiting conditions and how do these compare to those associated with the incidence of anxiety in children and young people with chronic conditions or no long-term conditions? | Model 2C stratified by condition group | Age, sex, ethnicity, deprivation status, maternal mental health, annual GP visits | Depression | Age, sex, ethnicity, deprivation status, maternal mental health, annual GP visits |
| 3) What factors are associated with the incidence of anxiety and/or depression in children and young people with life-limiting conditions and how do these compare to those associated with the incidence of anxiety and/or depression in children and young people with chronic conditions or no long-term conditions? | Model 3C stratified by condition group | Age, sex, ethnicity, deprivation status, maternal mental health, annual GP visits | Anxiety and/or depression | Age, sex, ethnicity, deprivation status, maternal mental health, annual GP visits |

<u>Chapter 5: The Incidence of Anxiety and Depression in Children and</u> <u>Young People with Life-Limiting Conditions, Chronic Conditions or No</u> <u>Long-Term Conditions: A Comparative Cohort Study – Results</u>

This chapter describes the results from a comparative cohort study conducted using data from Clinical Practice Datalink (CPRD) and linked data which aimed to address objectives 3 and 4 as outlined in Chapter 1:

- To use primary and secondary healthcare data from England to analyse the incidence of anxiety and depression in children and young people with life-limiting conditions and compare this to the incidence among those with chronic conditions and those with no long-term conditions
- To use primary and secondary healthcare data from England to examine what factors are associated with the incidence of anxiety and depression in children and young people with life-limiting conditions, and to explore whether these associations differ from those found among children and young people with chronic conditions and those with no long-term conditions

5.1 Description of Study Cohort

5.1.2 Original Cohort from CPRD

The original cohort received from CPRD included 35,683 children and young people; 8,950 with life-limiting conditions, 8,868 with chronic conditions and 17,865 with no long-term conditions. The distributions of sex, age at study start, ethnicity and deprivation status in the original cohort are displayed in Table 26. 34,549 mothers had at least one child in the cohort; 33,438 mothers (96.8%) had only one child in the cohort, 1,088 mothers (3.1%) had two children in the cohort and 23 mothers (0.1%) had three children in the dataset.

<u>Sex</u>

In the original cohort, there was a higher proportion of males (56.4%) than females (43.6%). None of the children and young people in the cohort were classified as having indeterminate sex.

Age at Study Entry

The median age at study entry was highest in the chronic condition group (4.08 years), followed by the life-limiting condition group (2.2-1years), with the lowest median age

at study entry observed in the no long-term condition group (0.56 years). The interquartile range was largest in the life-limiting condition group (0.00-7.77) and lowest in the no long-term condition group (0.07-6.54). These differences in age by condition group were found to be statistically significant (p<0.001). As shown in Figure 20, the distribution of age of study entry was positively skewed in all condition groups, with the majority of children entering the study at a young age.

Ethnicity

The most common ethnicity in the original cohort was White, accounting for 79.5% of children and young people. However, significant differences in ethnicity between condition groups were observed. For example, 83.2% of children and young people in the life-limiting condition group were White compared to 81.3% in the chronic condition group and 76.6% in the no long-term condition group. The proportion of missing ethnicity data also differed by condition group; 2.2% of the life-limiting condition group had missing ethnicity data, compared to 5.4% of the chronic condition group and 11.6% of the no long-term condition group. However, for the other ethnic categories, such as the various Black and Asian categories, only very slight differences between condition groups were observed.

Deprivation Status

In all three condition groups the largest proportion of children and young people were in the least deprived category, accounting for 23.7% of the cohort, whilst the least common category was the most deprived (17.8% of the cohort). However, differences in deprivation status by condition group were observed. For example, 25.7% of children and young people in the no long-term condition group were in the least deprived group, compared to only 20.6% in the life-limiting condition group. The proportion of missing data for deprivation status was low across all condition groups, representing 0.1% of the total cohort. **Table 26.** Description of sex, age at study entry, ethnicity and deprivation status variables by condition group in the original cohort

| | | Condition Group | | | |
|---------------------|------------------|------------------------|------------------|------------------|--------|
| Variable | Life-limiting | Chronic | No long-term | Total | р |
| variable | condition | condition | condition | (n=35,683) | value |
| | (n=8,950) | (n=8,868) | (n=17,865) | | |
| Sex, no. (%) | | | | | |
| Male | 5,049 (56.4) | 5,008 (56.5) | 10,076 (56.4) | 20,133 (56.4) | |
| Female | 3,901 (43.6) | 3,860 (43.5) | 7,789 (43.6) | 7,789 (43.6) | 0.994 |
| Indeterminate | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | |
| | | | | | |
| Ethnicity, no. (%) | | | | | |
| Bangladeshi | 59 (0.7) | 71 (0.8) | 101 (0.6) | 231 (0.7) | |
| Black African | 181 (2.0) | 158 (1.8) | 277 (1.6) | 616 (1.7) | |
| Black Caribbean | 45 (0.5) | 55 (0.6) | 88 (0.5) | 188 (0.5) | |
| Black Other | 63 (0.7) | 66 (0.7) | 103 (0.6) | 232 (0.7) | |
| Chinese | 30 (0.3) | 21 (0.2) | 58 (0.3) | 109 (0.3) | |
| Indian | 180 (2.0) | 148 (1.7) | 277 (1.6) | 605 (1.7) | -0.001 |
| Pakistani | 204 (2.3) | 159 (1.8) | 214 (1.2) | 577 (1.6) | <0.001 |
| White | 7,450 (83.2) | 7,213 (81.3) | 13,690 (76.6) | 28,353 (79.5) | |
| Other Asian | 126 (1.4) | 95 (1.1) | 202 (1.1) | 423 (1.2) | |
| Other | 135 (1.5) | 136 (1.5) | 298 (1.7) | 569 (1.6) | |
| Mixed | 280 (3.1) | 270 (3.0) | 489 (2.7) | 1,030 (2.9) | |
| Missing | 197 (2.2) | 476 (5.4) | 2,077 (11.6) | 2,750 (7.7) | |
| | | | | | |
| Deprivation status, | no. (%) | | | | |
| 1 (least deprived) | 1,846 (20.6) | 2,030 (22.9) | 4,591 (25.7) | 8,467 (23.7) | |
| 2 | 1,836 (20.5) | 1,754 (19.8) | 3,604 (20.2) | 7,194 (20.2) | |
| 3 | 1,714 (19.2) | 1,669 (19.2) | 3,354 (18.8) | 6,767 (19.0) | <0.001 |
| 4 | 1,838 (20.5) | 1,743 (19.7) | 3,317 (18.6) | 6,898 (19.3) | <0.001 |
| 5 (most deprived) | 1,711 (19.1) | 1,639 (18.5) | 2,987 (16.7) | 6,337 (17.8) | |
| Missing | ≤10 | ≤10 | 12 (0.1) | 20 (0.1) | |
| | | | | | |
| Age at Study | | | | | |
| Entry in years, | 2.21 (0.00-7.77) | 4.08 (1.33-8.46) | 0.56 (0.07-6.54) | 2.12 (0.12-7.27) | <0.001 |
| median (IQR) | | | | | |

Cell values of 10 or less are censored ($\leq 10'$) and some cells with values greater than 10 are also censored to prevent censored cells being determined by differencing (^). Significance of differences between groups was tested using a chi-squared test for categorical variables or a Kruskal-Wallis test by ranks for continuous variables.

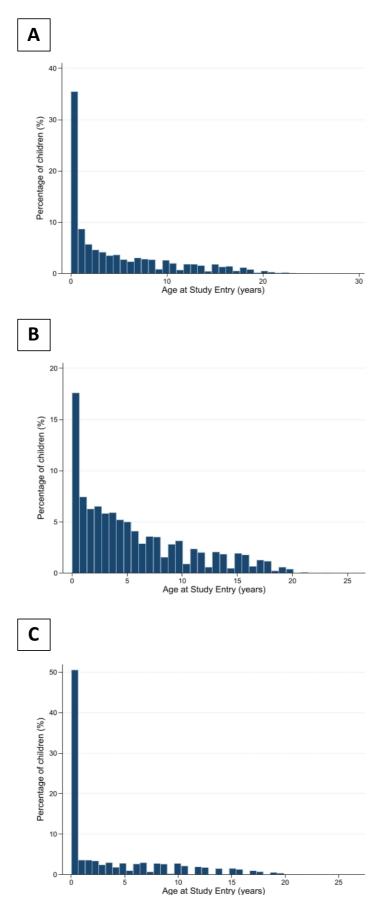


Figure 20. Histograms showing the distribution of age at study entry in the original cohort, by condition group: A) life-limiting condition, B) chronic condition, C) no long-term condition

5.1.3 Modified Cohort (Study Sample)

Figure 21 displays the modifications made to the original cohort to clean the data and make it suitable for use in this study, as specified in Chapter 4 (section 4.3.2). First, 292 children and young people were moved out of the life-limiting condition group as they had been misclassified and did not have a life-limiting condition; 131 of these children and young people were moved into the chronic condition group and 161 were moved into the no long-term condition group. Second, 42 children and young people were moved from the chronic condition group into the no long-term condition group into the no long-term condition group because they did not have a chronic condition as defined in this study. Subsequently, 310 children and young people were excluded from the cohort as they were over 19 years of age at study entry, and 10,053 were excluded because they were under 5 years of age at their study exit date. Finally, seven children and young people were excluded from the cohort as their date of life-limiting/chronic condition diagnosis occurred after their exit date.

This modified cohort, hereafter referred to as the 'study sample', therefore included 25,313 children and young people; 5,527 with life-limiting conditions, 6,729 with chronic conditions and 13,057 with no long-term conditions. 24,532 mothers had between one and three children in the study sample; 23,760 mothers (96.9%) had only one child in the study sample, whilst 772 mothers (3.1%) had two or more children in the study sample. Table 27 describes the distributions of the study variables, by condition group, for the children and young people in the study sample. Only 36 children and young people had a 'transfer out period' during their follow-up time. The median length of 'transfer out period' for these children and young people was 151 days.

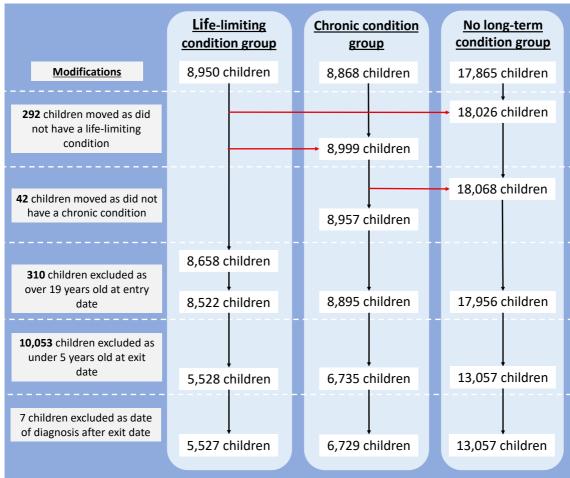


Figure 2. Modifications made to original cohort received from CPRD to create study sample

Red arrows show children being moved to a different condition group.

| Table 27. | Description | of study var | iables by co | ndition group | in the stud | v sample. |
|-----------|-------------|--------------|--------------|---------------|-------------|-----------|
| | Description | or orday tar | | | | , sample. |

| Variable | Life-limiting condition | Chronic condition | No long-term condition | Total (n=25,313) | <i>p</i> value |
|---|----------------------------|-------------------------|---------------------------|-------------------------|----------------|
| Sex, no. (%) | (n=5,527) | (n=6,729) | (n=13,057) | | |
| Male | 2 128 / Г.С. С) | 2 779 (56 2) | 7 211 (56 0) | 14 217 (56 2) | |
| Female | 3,128 (56.6) | 3,778 (56.2) | 7,311 (56.0) | 14,217 (56.2) | 0 5 7 2 |
| Indeterminate | 2,399 (43.4) | 2,951 (43.8) 0 (0.0) | 5,746 (44.0) | 11,096 (43.8) | 0.573 |
| Indeterminate | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | |
| Ethnicity, no. (%) | | | | | |
| Bangladeshi | 37 (0.7) | 54 (0.8) | 59 (0.5) | 150 (0.6) | |
| Black African | 82 (1.5) | 90 (1.3) | 154 (1.2) | 326 (1.3) | - |
| Black Caribbean | 24 (0.4) | 38 (0.6) | 61 (0.5) | 123 (0.5) | |
| Black Other | 27 (0.5) | 42 (0.6) | 71 (0.5) | 140 (0.6) | 1 |
| Chinese | 19 (0.3) | 12 (0.2) | 36 (0.3) | 67 (0.3) | |
| Indian | 101 (1.8) | 105 (1.6) | 166 (1.3) | 372 (1.5) | |
| Pakistani | 118 (2.1) | 121 (1.8) | 129 (1.0) | 368 (1.5) | <0.001 |
| White | 4,720 (85.4) | 5,519 (82.0) | 9,993 (76.5) | 20,232 (79.9) | |
| Other Asian | 58 (1.1) | 65 (1.0) | 107 (0.8) | 230 (0.9) | |
| Other | 72 (1.3) | 86 (1.3) | 168 (1.3) | 326 (1.3) | |
| Mixed | 130 (2.4) | 164 (2.4) | 280 (2.1) | 574 (2.3) | |
| Missing | 139 (2.5) | 433 (6.4) | 1,833 (14.0) | 2,405 (9.5) | - |
| - | (24) | • | • | • | |
| Deprivation Status, r | | 4 602 (22 0) | 2 5 2 2 (2 7 4) | C (02 (05 0) | |
| 1 (least deprived) | 1,218 (22.0) | 1,602 (23.8) | 3,582 (27.4) | 6,402 (25.3) | - |
| 2 | 1,177 (21.3) | 1,354 (20.1) | 2,709 (20.8) | 5,240 (20.7) | - |
| 3 | 1,058 (19.1) | 1,294 (19.2) | 2,411 (18.5) | 4,763 (18.8) | <0.001 |
| 4 | 1,077 (19.5) | 1,305 (19.4) | 2,293 (17.6) | 4,675 (18.5) | |
| 5 (most deprived) | 995 (18.0) | 1,171 (17.4) | 2,052 (15.7) | 4,218 (16.7) | |
| Missing | ≤10 | ≤10 | ≤10 | 15 (0.1) | |
| Age at Study Entry in years, median (IQR) | 5.33 (5.00-9.94) | 5.67 (5.00-9.79) | 5.00 (5.00-8.38) | 5.00 (5.00-9.05) | <0.001 |
| Annual GP Visits, median (IQR) | 2.50 (1.07-4.90) | 2.14 (1.04-3.96) | 1.08 (0.46-2.08) | 1.54 (0.65-3.06) | <0.001 |
| Maternal Mental He | alth Conditions. no. | . (%) | | | |
| None | 2,929 (53.0) | 3,563 (53.0) | 8,053 (61.7) | 14,545 (57.5) | |
| Common mental health disorder | 2,501 (45.3) | 3,059 (45.5) | 4,868 (37.3) | 10,428 (41.2) | <0.001 |
| Severe mental illness | 97 (1.8) | 107 (1.6) | 136 (1.0) | 340 (1.0) | |

Cell values of 10 or less are censored ($\leq 10'$) and some cells with values greater than 10 are also censored to prevent censored cells being determined by differencing (^). Significance of differences between groups was tested using a chi-squared test for categorical variables or a Kruskal-Wallis test by ranks for continuous variables.

<u>Sex</u>

The proportion of males in the study sample (56.2%) was higher than the proportion of females (43.8%), and this trend was observed in all three condition groups. None of the children and young people in the cohort were classified as having indeterminate or unknown sex.

Age at Study Entry

The median age at study entry was highest in the chronic condition group (5.67 years), followed by the life-limiting condition group (5.33 years), with the lowest median age observed in the no long-term condition group (5.00 years). These differences were found to be statistically significant (p<0.001). As shown in Figure 22, the distribution of age at study entry was positively skewed in all condition groups as a large proportion of the children started the study as soon as they turned five years of age.

Ethnicity

White was the most common ethnic category in the study sample, accounting for 79.9% of children and young people. Significant differences in ethnicity between condition groups was observed, particularly in the White ethnic group and in the proportion of missing ethnicity data between condition groups.

Deprivation Status

As in the original cohort, the most common deprivation category across all condition groups in the study sample was the least deprived category, whilst the least common category was the most deprived category. However, significant differences in deprivation status by condition group were observed.

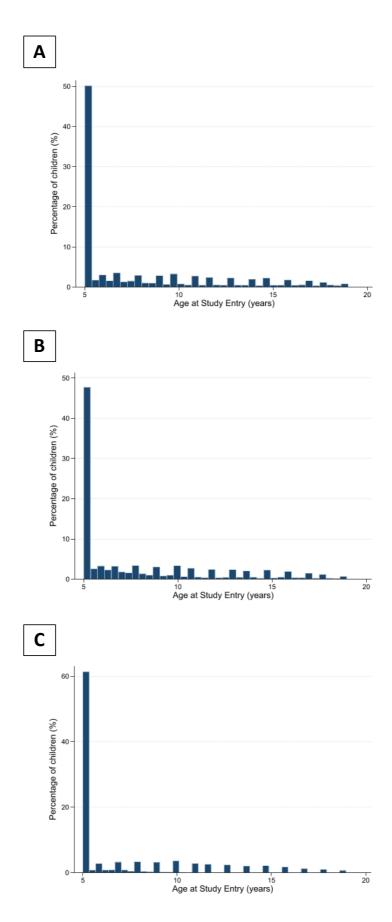
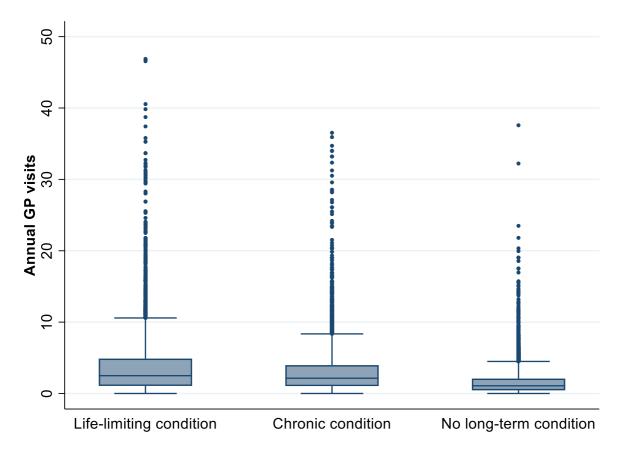
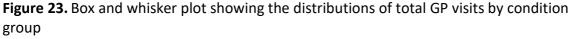


Figure 22. Histograms showing the distribution of ages at study start in the study sample, by condition group: A) life-limiting condition, B) chronic condition, C) no long-term condition

Annual GP Visits

The number of annual visits to a GP was highest in the life-limiting condition group (2.50 visits per year), followed by the chronic condition group (2.14 visits per year) and finally, the no long-term condition group (1.08 visits per year). The interquartile range for the life-limiting condition group (1.07-4.90) was also higher than the interquartile ranges observed in the chronic condition group (1.04-3.96) and the no long-term condition group (0.46-2.08). The distribution of total GP visits was positively skewed in all condition groups, with the majority of children and young people having a low number of visits each year, or none at all, whilst a few had a very high number of visits (Figure 23). Ten children and young people in the life-limiting condition group had more than 50 GP visits per year, compared to two in the chronic condition group and one in the no long-term condition group.





Excluded children and young people with more than 50 GP visits per year.

Maternal Mental Health Conditions

The proportion of children and young people whose mother had a common mental health disorder varied by condition group; 45.5% of children and young people in the chronic condition group, 45.3% of those in the life-limiting condition group, and 37.3% of those in the no long-term condition group. The proportion of children and young people whose mother had a severe mental illness was small, under 2.0% in all condition groups.

Life-limiting Condition Diagnostic Category

Figure 24 shows the distribution of diagnostic categories in the life-limiting condition group. The most common diagnostic category in the sample was congenital anomalies (28.9%), followed by oncology diagnoses (15.5%).

Chronic Condition Diagnostic Category

Figure 25 shows the distribution of diagnostic categories in the chronic condition group, the most common being respiratory conditions (52.7%).

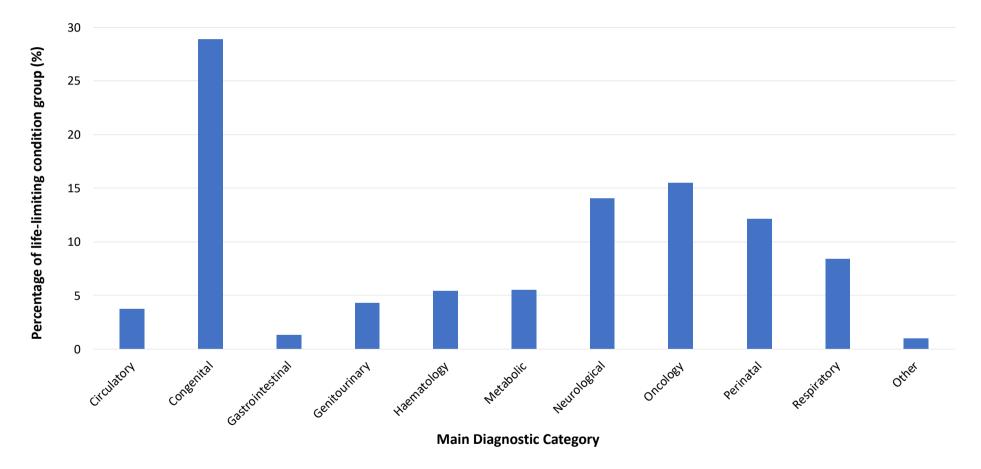


Figure 24. Main diagnostic category of children and young people with life-limiting conditions

134

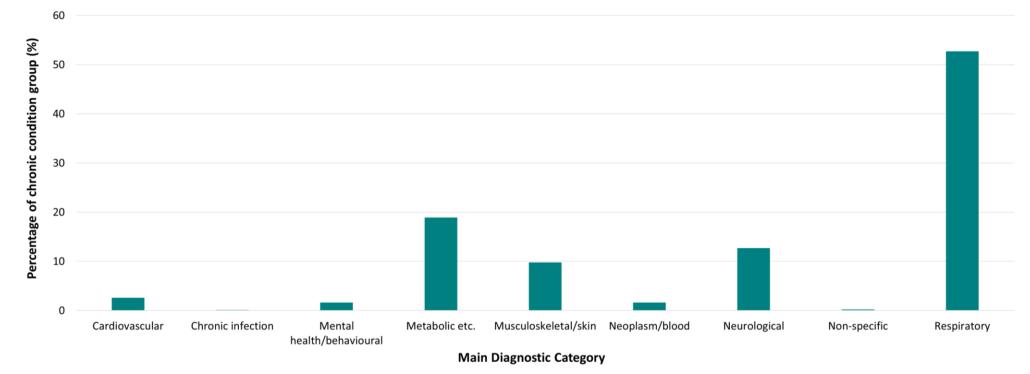


Figure 25. Main diagnostic category of children and young people with chronic conditions Metabolic etc. = metabolic/endocrine/renal/digestive/genitourinary

5.2 Analysis of Prescription Data

This section describes the results from the analysis of the prescribing practices of antidepressants, anxiolytics and hypnotics in the three condition groups which was conducted in order to produce a drug inclusion list for the study.

Antidepressants

A total of 17 antidepressants were prescribed to children and young people within the study sample, all of which are indicated for depression and nine of which are indicated for anxiety (Table 28). Three antidepressants were excluded from the study: amitriptyline, imipramine and pregabalin. All three of these antidepressants have other indications which may be relevant in this study sample; amitriptyline is indicated for neuropathic pain, imipramine is indicated for nocturnal enuresis (bedwetting), and pregabalin is indicated for neuropathic pain and seizures (Appendix 8). In addition, only a small number of children and young people prescribed these drugs also had a diagnosis or symptom of depression or anxiety (if applicable). Lists of exclusion codes for the main indications of the 14 included antidepressants are provided in Appendix 11.

Anxiolytics & Hypnotics

Six anxiolytics and nine hypnotics were prescribed for children and young people in the study sample, all of which were excluded from the study (Table 29, Table 30). The majority of these drugs have multiple indications other than anxiety, such as seizures and muscle spasms, many of which are more likely to occur in children and young people with life-limiting conditions. This is reflected in the prescribing patterns for some of these drugs. For example diazepam was prescribed for 175 children and young people with life-limiting conditions, compared to 30 children and young people with chronic conditions and 31 children and young people with no long-term conditions. As most of the children and young people in the study sample who had been prescribed anxiolytics or hypnotics did not also have a diagnosis or symptom of anxiety, these drugs were likely prescribed for other indications. Therefore, all anxiolytics and hypnotics were excluded from this study.

| | Number of chil | dren and young pe antidepressant | opie prescribed | | |
|----------------------|----------------|-------------------------------------|-----------------|-----------|-------------|
| Antidepressant | Life-limiting | Chronic | No long-term | Decision | Other |
| | condition | condition | condition | | Indications |
| | group | group | group | | |
| Amitriptyline | 46 | 42 | 25 | | |
| record of depression | ≤10 | ≤10 | ≤10 | Exclude | NA |
| • | | | | | |
| Citalopram | 22 | 46 | 48 | | |
| record of depression | 16 | 34 | 29 | Include | None |
| record of anxiety | 6 | 16 | 24 | | |
| Clomipramine | 0 | 0 | ≤10 | | |
| record of depression | 0 | 0 | ≤10 | Include | None |
| record of anxiety | 0 | 0 | ≤10 | 1 | |
| · . | | | | 1 | |
| Dosulepin | ≤10 | ≤10 | 0 | lucal 1 | N |
| record of depression | ≤10 | ≤10 | 0 | Include | None |
| Dulanatia a | | | ~~~~ | | [|
| Duloxetine | ≤10 | ≤10 | ≤10 | Include | |
| record of depression | ≤10 | ≤10 | 0 | | None |
| record of anxiety | 0 | 0 | ≤10 | | |
| Escitalopram | ≤10 | ≤10 | ≤10 | | |
| record of depression | 0 | ≤10 | ≤10 | Include | OCD |
| record of anxiety | 0 | ≤10 | ≤10 | | |
| | 27 | | 45 | | |
| Fluoxetine | 37 | 44 | 45 | | OCD |
| record of depression | 19 | 31 | 33 | Include | Eating |
| record of anxiety | ≤10 | 14 | 18 | | disorders |
| Flupentixol | 0 | 0 | ≤10 | | |
| record of depression | 0 | 0 | 0 | Include | None |
| | | | | 1 | 1 |
| Fluvoxamine | 0 | 0 | ≤10 | Include | OCD |
| record of depression | 0 | 0 | 0 | | |
| Imipramine | ≤10 | ≤10 | ≤10 | | |
| record of depression | 0 | 0 | 0 | Exclude | NA |
| ſ | | 1 | | | |
| Lofepramine | ≤10 | 0 | 0 | Include | None |
| record of depression | 1 | 0 | 0 | | |
| Mirtazapine | ≤10 | ≤10 | ≤10 | المواديطة | Nana |
| record of depression | ≤10 | ≤10 | ≤10 | Include | None |
| Nortriptyline | 0 | ≤10 | 0 | | |
| record of depression | 0 | ≤10 ≤10 | 0 | Include | None |
| | - | | ~ | 1 | I |
| Paroxetine | ≤10 | 0 | ≤10 | | |
| record of depression | ≤10 | 0 | 0 | Include | OCD |
| record of anxiety | ≤10 | 0 | 0 | 1 | |

Table 28. Decision of inclusion/exclusion for antidepressants

| | Number of children and young people prescribed antidepressant | | | | Other | | |
|----------------------|--|-------------------|---------------------------|----------|-------------|--|--|
| Antidepressant | Life-limiting condition | Chronic condition | No long-term condition | Decision | Indications | | |
| | group | group | group | | | | |
| Pregabalin | ≤10 | ≤10 | 0 | | | | |
| record of depression | ≤10 | 0 | 0 | Exclude | NA | | |
| record of anxiety | 0 | 0 | 0 | | | | |
| | | | | | | | |
| Sertraline | 14 | 35 | 23 | | | | |
| record of depression | ≤10 | 22 | 12 | Include | OCD | | |
| record of anxiety | ≤10 | 17 | ≤10 | | | | |
| | | | | | | | |
| Venlafaxine | ≤10 | ≤10 | 0 | | | | |
| record of depression | 0 | ≤10 | 0 | Include | None | | |
| record of anxiety | 0 | 0 | 0 | | | | |

Shows the number of children who have a record of depression (and anxiety if antidepressant also indicated for anxiety) before the prescription, by condition group.

Displays the main other indications for included drugs

Cell values of 10 or less are censored ($\leq 10'$) and some cells with values greater than 10 are also censored to prevent censored cells being determined by differencing (^).

Table 29. Decision of inclusion/exclusion for anxiolytics

| | Number of children | | | | |
|-------------------|--------------------|-------------------|-----------------|-------------------|--|
| Anxiolytic | Life-limiting | Chronic condition | No long-term | Decision | |
| | condition group | group | condition group | | |
| Buspirone | ≤10 | 0 | ≤10 | Exclude | |
| record of anxiety | 0 | 0 | 0 | Exclude | |
| Clobazam | 20 | ≤10 | 0 | Fyelude | |
| record of anxiety | ≤10 | 0 | 0 | Exclude | |
| Diazepam | 175 | 30 | 31 | Exclude | |
| record of anxiety | 12 | 13 | ≤10 | Exclude | |
| Hydroxyzine | ≤10 | 0 | 0 | Evolution | |
| record of anxiety | 0 | 0 | 0 | Exclude | |
| Lorazepam | 15 | ≤10 | 0 | Exclude | |
| record of anxiety | ≤10 | 0 | 0 | | |
| Midazolam | ≤10 | 0 | 0 | F orderala | |
| record of anxiety | ≤10 | 0 | 0 | Exclude | |

Shows the number of children and young people prescribed each anxiolytic and the number of these children who have a record of anxiety before the prescription, by condition group.

Cell values of 10 or less are censored ($\leq 10'$) and some cells with values greater than 10 are also censored to prevent censored cells being determined by differencing (^).

| Hypnotic | Life-limiting | Chronic condition | No long-term | Decision |
|-------------------|-----------------|-------------------|-----------------|----------|
| | condition group | group | condition group | |
| Chloral hydrate | 30 | ≤10 | ≤10 | Exclude |
| record of anxiety | ≤10 | 0 | ≤10 | Exclude |
| Chloral betaine | ≤10 | 0 | 0 | Exclude |
| record of anxiety | 0 | 0 | 0 | Exclude |
| Hydroxyzine | 14 | 16 | ≤10 | Exclude |
| record of anxiety | ≤10 | ≤10 | ≤10 | Exclude |
| Melatonin | 216 | 104 | 26 | Exclude |
| record of anxiety | 17 | ≤10 | ≤10 | Exclude |
| Nitrazepam | 13 | 0 | ≤10 | Exclude |
| record of anxiety | ≤10 | 0 | 0 | Exclude |
| Promethazine | 61 | 73 | 48 | Exclude |
| record of anxiety | ≤10 | ≤10 | ≤10 | Exclude |
| Temazepam | ≤10 | 0 | ≤10 | Exclude |
| record of anxiety | 0 | 0 | ≤10 | Exclude |
| Triclofos | ≤10 | 0 | 0 | Exclude |
| record of anxiety | 0 | 0 | 0 | Exclude |
| Zopiclone | ≤10 | 12 | ≤10 | Evoludo |
| record of anxiety | ≤10 | ≤10 | ≤10 | Exclude |

Table 30. Decision of inclusion/exclusion for hypnotics

Shows the number of children and young people prescribed each hypnotic and the number of these children who have a record of anxiety before the prescription, by condition group.

Cell values of 10 or less are censored (\leq 10') and some cells with values greater than 10 are also censored to prevent censored cells being determined by differencing (^).

5.3 Incidence of Anxiety

This section describes the results of the analysis for the first research question: 'what is the incidence of anxiety in children and young people with life-limiting conditions and how does this compare to the incidence in children and young people with chronic conditions or no long-term conditions'.

Of the 25,313 children and young people in the study sample, 132 had been diagnosed with anxiety prior to the start of the study. Therefore, 25,181 children and young people were included in the analysis of anxiety incidence, 448 of whom had incident cases of anxiety (Figure 26).

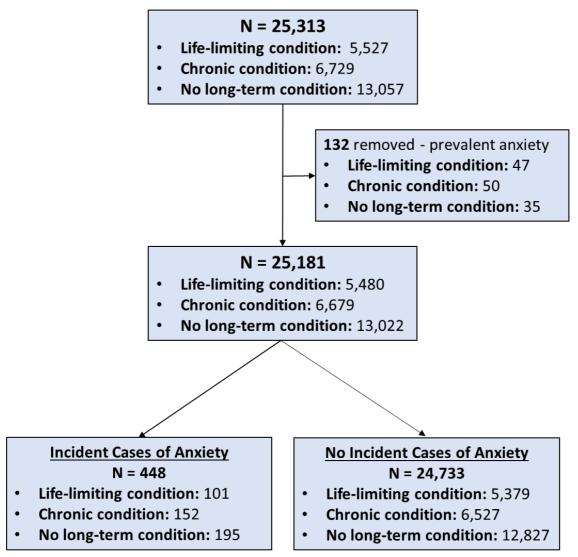


Figure 26. Flow diagram showing the number of incident cases of anxiety in the sample of 25,181 children and young people eligible for the analysis of anxiety incidence

The majority of children and young people with incident cases of anxiety had a diagnostic anxiety code recorded (90.6%). Most of these children and young people did not have any other types of anxiety codes recorded; 2.2% also had an anxiety symptom code, 0.9% also had a prescription code for anxiety and 0.4% had all three types of codes. The proportion of children and young people with only anxiety symptom or prescription codes in their records was also small; 7.1% only had a symptom code, 1.8% only had a prescription code and 0.4% had both a symptom code and a prescription but no diagnostic code (Figure 27).

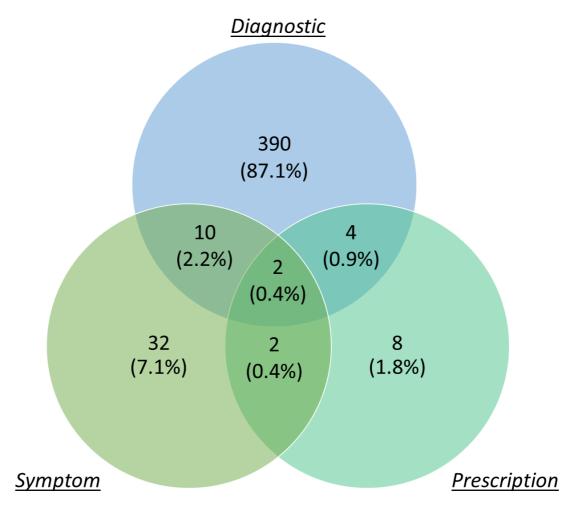


Figure 27. Venn diagram showing the overlap of each anxiety code type in the records of children and young people with incident anxiety

The cumulative incidence of anxiety was highest in the chronic condition group (2.28%, 95% CI: 1.93-2.66%) and lowest in the no long-term condition group (1.50%, 95% CI: 1.30-1.72%) (Table 31).

| | Life-limiting condition (n=5480) | Chronic condition (n=6679) | No long-term condition (n=13,022) | Total sample (n=25.181) |
|----------------------------------|--|----------------------------------|---|----------------------------|
| Anxiety cases | 101 | 152 | 195 | 448 |
| Anxiety cumulative incidence (%) | 1.84 (1.50-2.24) | 2.28 (1.93-2.66) | 1.50 (1.30-1.72) | 1.78 (1.62-1.95) |

| Table 31. Cur | nulative incidence | e of anxiety. b | y condition group |
|---------------|--------------------|-----------------|-------------------|
| | | | , |

The crude incidence rate of anxiety was also highest in the chronic condition group (5.04 cases per 1,000 person-years, 95% CI: 4.30-5.91), followed by the life-limiting condition group (4.27 cases per 1,000 person-years, 95% CI: 3.52-5.20). However, the confidence intervals for the incidence observed in these two groups overlap, demonstrating that the incidence did not differ significantly between the two groups. The lowest anxiety incidence was observed in the no long-term condition group (2.85 cases per 1,000 person years, 95% CI: 2.48-3.28). The confidence intervals for this group do not overlap with the confidence intervals for the chronic condition or life-limiting condition groups, indicating that these differences in incidence were significant (Figure 28).

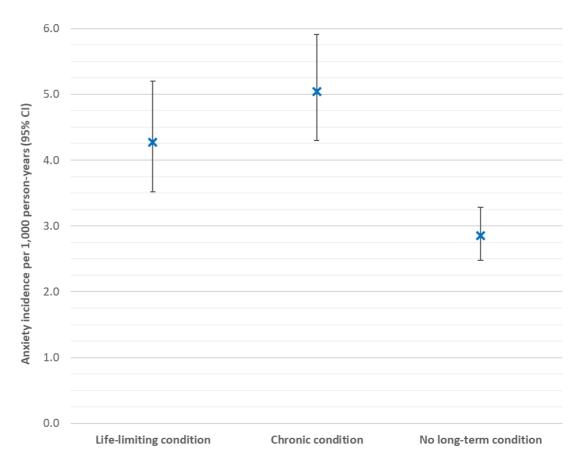


Figure 28. Anxiety incidence rate per 1,000 person years with 95% CIs, by condition group

In the overall study sample, the crude incidence of anxiety was higher in females (4.93 cases per 1,000 person years, 95% CI: 4.36-5.57) compared to males (2.73 cases per 1,000 person years, 95% CI: 2.37-3.14). Anxiety incidence was also higher among children and young people whose mothers had a severe mental illness (5.20 cases per 1,000 person years, 95% CI: 2.60-10.39) or a common mental health disorder (4.62 cases per 1,000 person years, 95% CI: 4.07-5.24) compared to children and young people whose mothers had no mental health conditions (2.91 cases per 1,000 person years, 95% CI: 2.53-3.34) (Table 32).

Table 32. Crude anxiety incidence per 1,000 person years for total sample and stratified by condition group, sex, ethnicity, deprivation status and exposure to maternal mental health conditions

| Group/Covariate | Number of children | Anxiety cases, no. (%) | Person-Years in 1,000s | Crude anxiety incidence per 1,000 person-years (95% Cl) | | |
|-----------------------------------|-----------------------|---------------------------|---------------------------|--|--|--|
| Total sample | 25,181 | 448 (1.78) | 122.16 | 3.67 (3.34-4.02) | | |
| Condition Group | | | | | | |
| No long-term condition | 13,022 | 195 (1.50) | 68.36 | 2.85 (2.48-3.28) | | |
| Chronic condition | 6,679 | 152 (2.28) | 30.16 | 5.04 (4.30-5.91) | | |
| Life-limiting condition | 5,480 | 101 (1.84) | 23.63 | 4.27 (3.52-5.20) | | |
| Sex | | | | | | |
| Male | 14,149 | 191 (1.35) | 70.06 | 2.73 (2.37-3.14) | | |
| Female | 11,032 | 257 (2.33) | 52.10 | 4.93 (4.36-5.57) | | |
| Ethnicity | | | | | | |
| White | 20,123 | 379 (1.88) | 96.78 | 3.92 (3.54-4.33) | | |
| Black | 587 | ≤10 | 2.37 | 2.53 (1.14-5.63) | | |
| South Asian | 886 | ≤10 | 3.72 | 1.88 (0.90-3.95) | | |
| Other Asian | 296 | ≤10 | 1.18 | 2.53 (0.82-7.85) | | |
| Other | 324 | ≤10 | 1.38 | 1.45 (0.36-5.81) | | |
| Mixed | 572 | ≤10 | 2.35 | 4.25 (2.29-7.90) | | |
| Missing | 2,393 | 41 (1.71) | 14.37 | 2.85 (2.10-3.88) | | |
| Deprivation Status | _ | | | | | |
| 1 (least deprived) | 6,359 | 135 (2.12) | 32.96 | 4.10 (3.46-4.85) | | |
| 2 | 5,216 | 94 (1.80) | 25.84 | 3.64 (2.97-4.45) | | |
| 3 | 4,741 | 86 (1.81) | 22.67 | 3.79 (3.07-4.69) | | |
| 4 | 4,650 | 65 (1.40) | 21.63 | 3.01 (2.36-3.83) | | |
| 5 (most deprived) | 4,200 | 68 (1.62) | 18.98 | 3.58 (2.83-4.54) | | |
| Missing | 15 | 0 (0.00) | 0.07 | 0.00 (0.00-0.00) | | |
| Maternal Mental Health Conditions | | | | | | |
| None | 14,508 | 199 (1.37) | 68.43 | 2.91 (2.53-3.34) | | |
| Common mental health disorder | 10,337 | 241 (2.33) | 52.19 | 4.62 (4.07-5.24) | | |
| Severe mental illness | 336 | ≤10 | 1.54 | 5.20 (2.60-10.39) | | |

Cell values of 10 or less are censored ($\leq 10'$) and some cells with values greater than 10 are also censored (^) to prevent censored cells being determined by differencing. Removed children and young people with missing deprivation status data.

The crude incidence rate ratios (IRRs) show that the incidence of anxiety in both the life-limiting condition group (IRR = 1.50, 95% CI: 1.18-1.91) and the chronic condition group (IRR = 1.77, 95% CI: 1.43-2.18) was significantly higher than that observed in the no long-term condition group (Table 33). Adjusting for sex, age, ethnicity and deprivation status (Model 1A) resulted in a slight reduction in the IRRs for the life-limiting condition group (IRR = 1.39, 95% CI: 1.09-1.77) and the chronic condition group (IRR = 1.64, 95% CI: 1.32-2.03). However, there was still a significant difference in anxiety incidence in these groups compared to the no long-term condition group. This was also observed when maternal mental health conditions were added to the model (Model 1B).

The additional adjustment of annual GP visits (Model 1C), however, further reduced the IRRs in both the life-limiting condition group (IRR = 1.00, 95% CI: 0.77-1.29) and the chronic condition group (IRR = 1.40, 95% CI: 1.13-1.74), meaning that although there was a significant difference in anxiety incidence in the chronic condition group compared to the no long-term condition group, the difference in anxiety incidence between the life-limiting condition group and the no long-term condition group was no longer significant. The BIC for Model 1C was lower than those reported for Model 1B or 1A. However, as Models 1B and 1C adjusted for potential mediators (maternal mental health, annual GP visits), Model 1A was the most robust.

In all models, the incidence of anxiety was significantly associated with female sex, increased age at study entry and a higher number of GP visits. Incidence was also significantly higher among children and young people whose mothers had a common mental health disorder (IRR = 1.50, 95% CI: 1.24-1.81) compared to those whose mothers had no mental health conditions. These trends remained consistent when children and young people with missing ethnicity data were removed from Model 1C (Appendix 12).

The risk of anxiety was also significantly higher in both the life-limiting and chronic condition groups compared to the no long-term condition group in both of the Supplementary Models performed for the sensitivity analysis (Appendix 13). Therefore, the results from the main analysis were unaffected by the presence or absence of age as a time-dependent covariate.

| Table 33. | Crude and | adjusted | anxiety | incidence | rate ratios |
|-----------|-----------|----------|---------|-----------|-------------|
|-----------|-----------|----------|---------|-----------|-------------|

| Group/Covariate | Crude incidence rate ratio (95% CI) | Model 1A:Model 1B:Adjusted incidenceAdjusted incidencerate ratio (95% Cl)rate ratio (95% Cl) | | Model 1C: Adjusted incidence rate ratio (95% CI) |
|----------------------------------|---|--|--------------------|--|
| Condition Group | 1 | | | |
| No long-term condition | 1.00 (ref) | 1.00 (ref) | 1.00 (ref) | 1.00 (ref) |
| Chronic condition | 1.77 (1.43-2.18)** | 1.64 (1.32-2.03)** | 1.58 (1.27-1.96)** | 1.40 (1.13-1.74)** |
| Life-limiting condition | 1.50 (1.18-1.91)** | 1.39 (1.09-1.77)** | 1.34 (1.05-1.71)* | 1.00 (0.77-1.29) |
| Sex | | | | |
| Male | 1.00 (ref) | 1.00 (ref) | 1.00 (ref) | 1.00 (ref) |
| Female | 1.81 (1.50-2.18)** | 1.86 (1.54-2.24)** | 1.87 (1.55-2.26)** | 1.80 (1.49-2.18)** |
| Age at Study Entry | 1.14 (1.11-1.16)** | 1.13 (1.11-1.16)** | 1.13 (1.11-1.16)** | 1.12 (1.09-1.15)** |
| Ethnicity | | | | |
| White | 1.00 (ref) | 1.00 (ref) | 1.00 (ref) | 1.00 (ref) |
| Black | 0.65 (0.29-1.45) | 0.79 (0.35-1.79) | 0.88 (0.39-1.99) | 0.79 (0.35-1.79) |
| South Asian | 0.48 (0.23-1.01) | 0.56 (0.26-1.18) | 0.61 (0.29-1.29) | 0.55 (0.26-1.16) |
| Other Asian | 0.65 (0.21-2.01) | 0.75 (0.24-2.34) | 0.83 (0.27-2.61) | 0.78 (0.25-2.44) |
| Other | 0.37 (0.09-1.49) | 0.39 (0.10-1.56) | 0.40 (0.10-1.60) | 0.43 (0.11-1.71) |
| Mixed | 1.08 (0.58-2.03) | 1.27 (0.67-2.38) | 1.26 (0.67-2.37) | 1.11 (0.58-2.10) |
| Missing | 0.73 (0.53-1.01) | 0.72 (0.52-1.00)* | 0.74 (0.54-1.03) | 0.80 (0.58-1.11) |
| Deprivation Status | | | | |
| 1 (least deprived) | 1.00 (ref) | 1.00 (ref) | 1.00 (ref) | 1.00 (ref) |
| 2 | 0.89 (0.68-1.16) | 0.83 (0.64-1.09) | 0.83 (0.63-1.07) | 0.85 (0.65-1.11) |
| 3 | 0.93 (0.71-1.21) | 0.86 (0.65-1.13) | 0.84 (0.64-1.10) | 0.89 (0.68-1.17) |
| 4 | 0.73 (0.55-0.99)* | 0.70 (0.52-0.94)* | 0.67 (0.49-0.90)** | 0.70 (0.52-0.95)* |
| 5 (most deprived) | 0.87 (0.65-1.17) | 0.84 (0.63-1.13) | 0.78 (0.58-1.05) | 0.83 (0.62-1.12) |
| Maternal Mental H | ealth Conditions | | | |
| None | 1.00 (ref) | 1.00 (ref) | 1.00 (ref) | 1.00 (ref) |
| Common mental health disorder | 1.59 (1.32-1.92)** | NA | 1.53 (1.26-1.85)** | 1.50 (1.24-1.81)** |
| Severe mental illness | 1.79 (0.88-3.62) | NA | 1.72 (0.85-3.49) | 1.32 (0.64-2.71) |
| | | | | |
| Annual GP Visits | 1.09 (1.08-1.10)** | NA | NA | 1.09 (1.08-1.10)** |
| BIC | NA | 4783.848 | 4784.423 | 4702.547 |

p*≤0.05 *p*≤0.01 **NA:** Not applicable

Crude IRR: no adjustment (model uses covariate of interest as independent variable)

Model 1A: adjusted for sex, age, ethnicity and deprivation status

Model 1B: adjusted for sex, age, ethnicity, deprivation status and maternal mental health conditions

Model 1C: adjusted for sex, age, ethnicity, deprivation status maternal mental health conditions and annual GP visits

Children and young people with missing deprivation status data were not included in models.

5.4 Incidence of Depression

This section describes the results of the analysis for the second research question: 'what is the incidence of depression in children and young people with life-limiting conditions and how does this compare to the incidence in children and young people with chronic conditions or no long-term conditions'.

Of the 25,313 children and young people in the study sample, 51 had been diagnosed with depression prior to the start of the study. Therefore, 25,262 children and young people were included in the analysis of depression incidence, 393 of whom had incident cases of depression (Figure 29).

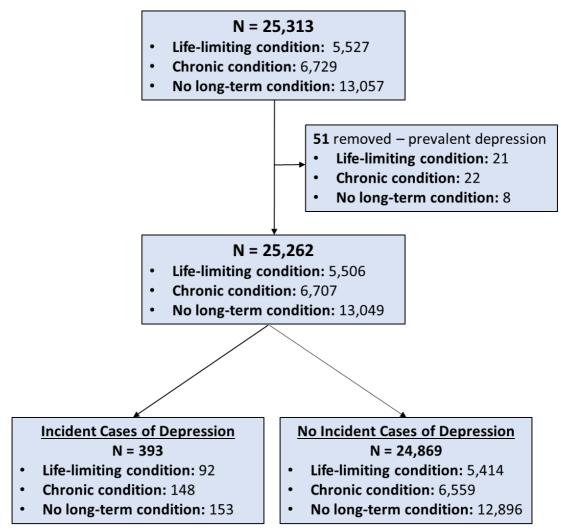


Figure 29. Flow diagram showing the number of incident cases of depression from the sample of 25,262 children and young people eligible for the analysis of depression incidence

Less than two-thirds (59.3%) of children and young people with incident depression had a diagnostic depression code in their records, either as the only type of depression code recorded or in combination with other types of depression codes. The proportion of children and young people with recorded prescription codes was similar (51.4%), whereas the proportion of children and young people with a recorded symptom code was much smaller (30.3%) (Figure 30).

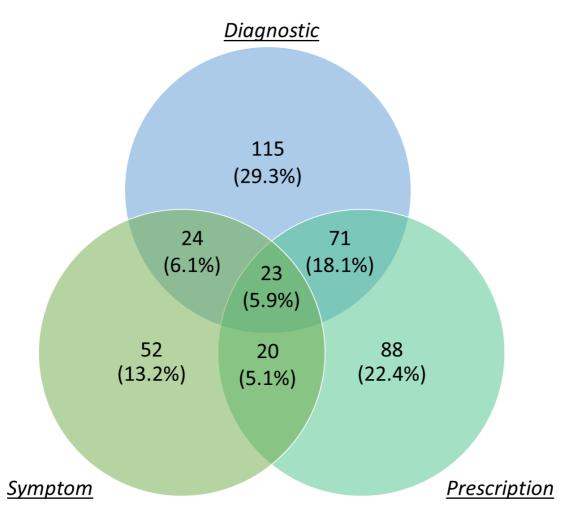


Figure 30. Venn diagram showing the overlap of each depression code type in the records of children and young people with incident depression

The cumulative incidence of depression was higher in both the chronic condition group (2.21, 95% CI: 1.87-2.59) and the life-limiting condition group (1.67, 95% CI: 1.35-2.05), compared to the no long-term condition group (1.17, 95% CI: 0.99-1.37) (Table 34).

| | Life-limiting condition (n=5,506) | Chronic Condition (n=6,707) | No long-term condition (n=13,049) | Total sample (n=25,262) |
|---|---|-----------------------------------|---|----------------------------|
| Depression cases | 92 | 148 | 153 | 393 |
| Depression cumulative incidence (%) | 1.67 (1.35-2.05) | 2.21 (1.87-2.59) | 1.17 (0.99-1.37) | 1.56 (1.41-1.72) |

Table 34. Cumulative incidence of depression, by condition group

The highest crude incidence of depression was observed in the chronic condition group (4.88 cases per 1,000 person-years, 95% CI: 4.15-5.73), followed by the life-limiting condition group (3.87 cases per 1,000 person-years, 95% CI: 3.15-4.75). However, the confidence intervals for the incidence estimates from these two groups do overlap. The lowest incidence of depression was observed in the no long-term condition group (2.23 cases per 1,000 person-years, 95% CI: 1.90-2.61), and the confidence intervals do not overlap with the confidence intervals for the chronic condition or life-limiting condition groups (Figure 31).

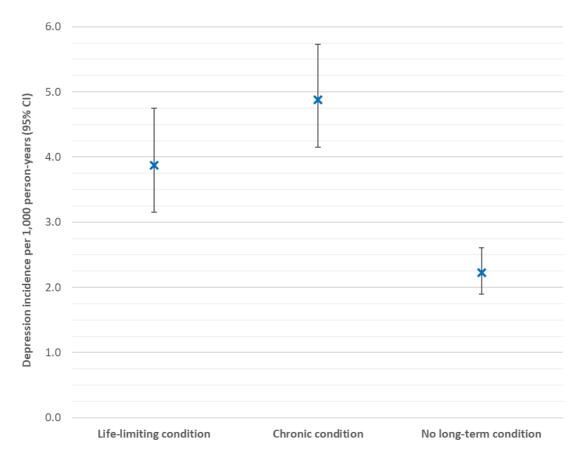


Figure 31. Depression incidence rate per 1,000 person years with 95% CIs, by condition group

The crude incidence of depression in females (4.72 cases per 1,000 person-years, 95% CI: 4.17-5.35) was over twice that observed in males (2.07 cases per 1,000 person-years, 95% CI: 1.76-2.44). Depression incidence was also highest among children and young people from a White ethnic background (3.64 cases per 1,000 person-years, 95% CI: 3.28-4.04), and among children and young people whose mothers had a severe mental illness (5.15 cases per 1,000 person-years, 95% CI: 2.57-10.29) (Table 35).

Table 35. Crude depression incidence per 1,000 person years for total sample and stratified by condition group, sex, ethnicity, deprivation status and exposure to maternal mental health conditions

| Group/Covariate | Number of children | Depression cases, no. (%) | Person-Years in 1,000s | Crude depression incidence per 1,000 person-years (95% Cl) |
|----------------------------------|-----------------------|------------------------------|---------------------------|---|
| Total sample | 25,262 | 393 (1.56) | 122.75 | 3.20 (2.90-3.53) |
| Condition Group | | | | |
| No long-term condition | 13,049 | 153 (1.17) | 68.63 | 2.23 (1.90-2.61) |
| Chronic condition | 6,707 | 148 (2.21) | 30.34 | 4.88 (4.15-5.73) |
| Life-limiting condition | 5,506 | 92 (1.67) | 23.78 | 3.87 (3.15-4.75) |
| Sex | | | | |
| Male | 14,194 | 146 (1.03) | 70.44 | 2.07 (1.76-2.44) |
| Female | 11,068 | 247 (2.23) | 52.31 | 4.72 (4.17-5.35) |
| Ethnicity | | | | |
| White | 20,190 | 354 (1.75) | 97.25 | 3.64 (3.28-4.04) |
| Black | 587 | ≤10 | 2.38 | 1.26 (0.41-3.91) |
| South Asian | 890 | ≤10 | 3.73 | 0.80 (0.26-2.49) |
| Other Asian | 297 | ≤10 | 1.20 | 3.34 (1.25-8.89) |
| Other | 324 | 0 | 1.38 | 0.00 (0.00-0.00) |
| Mixed | 573 | ≤10 | 2.36 | 1.69 (0.64-4.51) |
| Missing | 2,401 | 25 (1.04) | 14.45 | 1.73 (1.17-2.56) |
| Deprivation Status | | | | |
| 1 (least deprived) | 6,394 | 112 (1.75) | 33.18 | 3.38 (2.81-4.06) |
| 2 | 5,232 | 72 (1.38) | 25.97 | 2.77 (2.20-3.49) |
| 3 | 4,752 | 77 (1.62) | 22.79 | 3.38 (2.70-4.22) |
| 4 | 4,668 | 63 (1.35) | 21.72 | 2.90 (2.27-3.71) |
| 5 (most deprived) | 4,202 | 72 (1.71) | 19.02 | 3.79 (3.00-4.77) |
| Missing | 15 | 0 (0.00) | 0.07 | 0.00 (0.00-0.00) |
| Maternal Mental Health Co | onditions | | | |
| None | 14,539 | 155 (1.07) | 68.70 | 2.26 (1.93-2.64) |
| Common mental health disorder | 10,384 | ۸ | 52.49 | 4.38 (3.85-4.99) |
| Severe mental illness | 339 | ≤10 | 1.55 | 5.15 (2.57-10.29) |

Cell values of 10 or less are censored (\leq 10') and some cells with values greater than 10 are also censored ($^{\circ}$) to prevent censored cells being determined by differencing. Removed children and young people with missing deprivation status data.

As shown by the crude IRRs, the incidence of depression was significantly higher in the life-limiting condition group (IRR = 1.73, 95% CI: 1.34-2.25) and the chronic condition group (IRR = 2.19, 95% CI: 1.74-2.74) compared to the no long-term condition group (Table 36). Adjusting for sex, age, ethnicity and deprivation status (Model 2A) resulted in a reduction in the IRRs for the life-limiting condition group (IRR = 1.41, 95% CI: 1.08-1.83) and the chronic condition group (IRR = 1.81, 95% CI: 1.44-2.28), however the difference in depression incidence between these groups and the no long-term condition group was still significant. This was also observed when maternal mental health conditions were added to the model (Model 2B).

However, the additional adjustment for annual GP visits and exposure to maternal mental health conditions, reduced the IRRs for both the life-limiting condition group (IRR = 1.11, 95% CI: 0.85-1.46) and the chronic condition group (IRR = 1.58, 95% CI: 1.25-1.98), meaning that the difference in depression incidence between the life-limiting condition group and the no long-term condition group was no longer significant. The smallest BIC was found for Model 2C. However, as Models 2B and 2C adjusted for potential mediators (maternal mental health, annual GP visits), Model 2A was the most robust.

In all models, depression incidence was significantly associated with female sex, increased age at study entry, and a higher number of GP visits in all models. The highest incidence of depression was observed in the White ethnic group, whilst the incidence in the South Asian group (IRR = 0.30, 95% CI: 0.10-0.94) and among children and young people with missing ethnicity data (IRR = 0.50, 95% CI: 0.33-0.76) was significantly lower. The incidence of depression was also significantly higher among children and young people whose mothers had a common mental health disorder compared to children whose mothers had no mental health conditions (IRR = 1.73, 95% CI: 1.41-2.13). These trends remained consistent when children and young people with missing ethnicity data were removed from Model 2C (Appendix 12).

| Table 36. Crude and ad | justed depression | incidence rate ratios |
|------------------------|-------------------|-----------------------|
|------------------------|-------------------|-----------------------|

| Group/Covariate | Crude incidence rate ratio (95% CI) | Model 2A: Adjusted incidence rate ratio (95% CI) | Model 2B: Adjusted incidence rate ratio (95% CI) | Model 2C: Adjusted incidence rate ratio (95% CI) |
|----------------------------------|---|--|--|--|
| Condition Group | | | 1 | 1 |
| No long-term condition | 1.00 (ref) | 1.00 (ref) | 1.00 (ref) | 1.00 (ref) |
| Chronic condition | 2.19 (1.74-2.74)** | 1.81 (1.44-2.28)** | 1.72 (1.37-2.16)** | 1.58 (1.25-1.98)** |
| Life-limiting condition | 1.73 (1.34-2.25)** | 1.41 (1.08-1.83)** | 1.34 (1.03-1.74)* | 1.11 (0.85-1.46) |
| Sex | | | | |
| Male | 1.00 (ref) | 1.00 (ref) | 1.00 (ref) | 1.00 (ref) |
| Female | 2.28 (1.86-2.79)** | 2.35 (1.92-2.89)** | 2.38 (1.94-2.92)** | 2.24 (1.83-2.75)** |
| Age at Study Entry | 1.27 (1.24-1.30)** | 1.26 (1.23-1.29)** | 1.26 (1.23-1.29)** | 1.25 (1.22-1.28)** |
| Ethnicity | | | | |
| White | 1.00 (ref) | 1.00 (ref) | 1.00 (ref) | 1.00 (ref) |
| Black | 0.35 (0.11-1.08) | 0.47 (0.15-1.48) | 0.55 (0.18-1.72) | 0.53 (0.17-1.65) |
| South Asian | 0.22 (0.07-0.69)** | 0.28 (0.09-0.88)* | 0.32 (0.10-1.01) | 0.30 (0.10-0.94)* |
| Other Asian | 0.92 (0.34-2.45) | 1.26 (0.47-3.39) | 1.44 (0.54-3.88) | 1.38 (0.51-3.71) |
| Other | 0.00 (0.00-0.00) | 0.00 (0.00-0.00) | 0.00 (0.00-0.00) | 0.00 (0.00-0.00) |
| Mixed | 0.46 (0.17-1.25) | 0.65 (0.24-1.73) | 0.64 (0.24-1.71) | 0.63 (0.23-1.68) |
| Missing | 0.48 (0.32-0.71)** | 0.45 (0.30-0.68)** | 0.47 (0.31-0.71)** | 0.50 (0.33-0.76)** |
| Deprivation Status | | | | |
| 1 (least deprived) | 1.00 (ref) | 1.00 (ref) | 1.00 (ref) | 1.00 (ref) |
| 2 | 0.83 (0.62-1.11) | 0.75 (0.56-1.01) | 0.74 (0.55-0.99)* | 0.75 (0.56-1.01)* |
| 3 | 0.98 (0.73-1.32) | 0.86 (0.64-1.16) | 0.84 (0.62-1.12) | 0.86 (0.64-1.16) |
| 4 | 0.87 (0.64-1.18) | 0.79 (0.58-1.08) | 0.75 (0.55-1.03) | 0.76 (0.55-1.03) |
| 5 (most deprived) | 1.13 (0.84-1.52) | 1.07 (0.79-1.44) | 0.97 (0.72-1.30) | 1.00 (0.74-1.35) |
| Maternal Mental He | alth Conditions | | 1 | 1 |
| None | 1.00 (ref) | 1.00 (ref) | 1.00 (ref) | 1.00 (ref) |
| Common mental health disorder | 1.94 (1.58-2.38)** | NA | 1.78 (1.45-2.19)** | 1.73 (1.41-2.13)** |
| Severe mental illness | 2.28 (1.12-4.64)* | NA | 2.14 (1.05-4.36)* | 2.00 (0.98-4.07) |
| | | | | |
| Annual GP Visits | 1.07 (1.06-1.07)** | NA 2052.200 | NA 2010.051 | 1.06 (1.05-1.07)** |
| BIC | NA | 3852.399 | 3840.951 | 3805.54 |

p*≤0.05 *p*≤0.01 **NA:** Not applicable

Crude IRR: no adjustment (model uses covariate of interest as independent variable)

Model 2A: adjusted for sex, age, ethnicity and deprivation status

Model 2B: adjusted for sex, age, ethnicity, deprivation status and maternal mental health conditions

Model 2C: adjusted for sex, age, ethnicity, deprivation status maternal mental health conditions and annual GP visits

Children and young people with missing deprivation status data were not included in models.

5.5 Incidence of Anxiety and/or Depression

This section describes the results of the analysis for the third research question: 'what is the incidence of anxiety and/or depression in children and young people with lifelimiting conditions and how does this compare to the incidence in children and young people with chronic conditions or no long-term conditions'.

Of the 25,313 children and young people in the study sample, 175 had been diagnosed with anxiety and/or depression prior to the start of the study. Therefore, the analysis of the incidence of anxiety and/or depression included 25,138 children and young people, of whom 764 had incident cases (Figure 32).

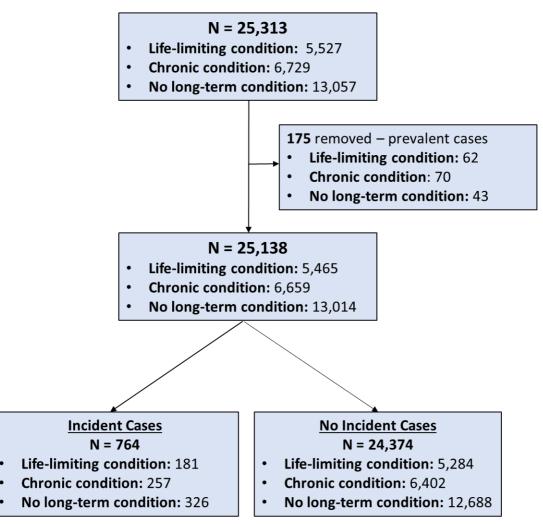


Figure 32. Flow diagram showing the number of incident cases of anxiety and/or depression from the sample of 25,138 children and young people eligible for the analysis of the incidence of anxiety and/or depression

Almost a quarter of children and young people (21.8%) with anxiety and/or depression did not have a diagnostic code for anxiety, depression or co-morbid anxiety and depression in their records. The proportions of children and young people with only a symptom code or only a prescription code were similar (9.0% and 10.0% respectively) (Figure 33).

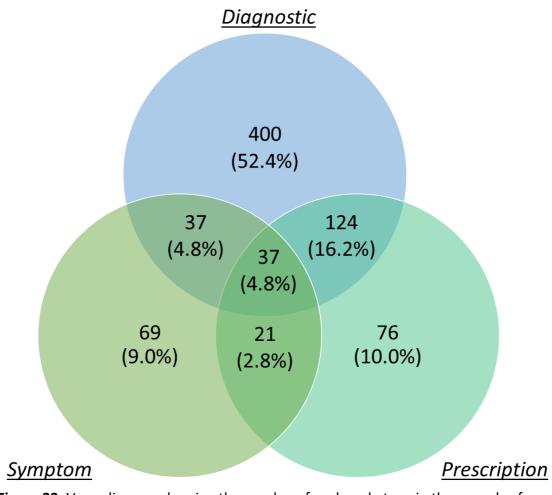


Figure 33. Venn diagram showing the overlap of each code type in the records of children and young people with anxiety and/or depression

The highest cumulative incidence of anxiety and/or depression was observed in the chronic condition group (3.86%, 95% CI: 3.41-4.35%), followed by the life-limiting condition group (3.31%, 95% CI: 2.85-3.82%). The lowest cumulative incidence was found for the no long-term condition group (2.50%, 95% CI: 2.24-2.79%) (Table 37).

Table 37. Cumulative incidence of anxiety and/or depression, by condition group

| | Life-limiting condition (n=5,465) | Chronic condition (n=6,659) | No long-term condition (n=13,014) | Total sample (n=25,138) |
|-----------------------------|---|-----------------------------------|---|----------------------------|
| Cases | 181 | 257 | 326 | 764 |
| Cumulative incidence (%) | 3.31 (2.85-3.82) | 3.86 (3.41-4.35) | 2.50 (2.24-2.79) | 3.04 (2.83-3.26) |

The highest incidence of anxiety and/or depression was seen in the chronic condition group (8.58 cases per 1,000 person-years, 95% CI: 7.59-9.70). However, the incidence in the life-limiting condition group was similar (7.72 cases per 1,000 person-years, 95% CI: 6.67-8.93), and the confidence intervals for the two groups overlap, showing that the incidence estimates were not significantly different between the two groups. The lowest incidence was observed in the no long-term condition group (4.79 cases per 1,000 person-years, 95% CI: 4.29-5.33) and the confidence intervals for the chronic condition or life-limiting condition groups, demonstrating that the differences in incidence were significant (Figure 34).

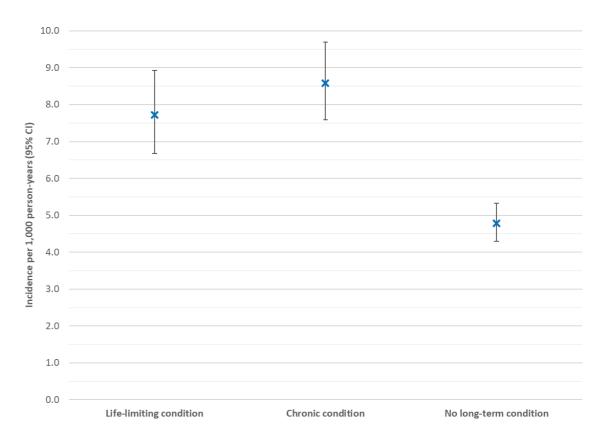


Figure 34. Incidence of anxiety and/or depression per 1,000 person years with 95% CIs, by condition group

The crude incidence of anxiety and/or depression in females (8.64 cases per 1,000 person-years, 95% CI: 7.88-9.48) was higher than in males (4.54 cases per 1,000 person-years, 95% CI: 4.07-5.07). Incidence was also highest among children and young people from a White ethnic background (6.95 cases per 1,000 person-years, 95% CI: 6.45-7.50) The crude incidence of anxiety and/or depression in children and young people whose mothers had a severe mental illness (10.56 cases per 1,000 person-years, 95% CI: 6.47-17.24) was over twice that observed among children and young people whose mothers had no maternal mental health conditions (4.85 cases per 1,000 person-years, 95% CI: 4.36-5.40) (Table 38).

Table 38. Crude incidence of anxiety and/or depression per 1,000 person years for total sample and stratified by condition group, sex, ethnicity, deprivation status and exposure to maternal mental health conditions

| Group/Covariate | Number of children | Cases, no. (%) | Person-Years in 1,000s | Crude incidence of anxiety and/or depression per 1,000 person-years (95% CI) |
|----------------------------------|-----------------------|-------------------|---------------------------|---|
| Total sample | 25,138 | 764 (3.04) | 121.52 | 6.29 (5.86-6.75) |
| Condition Group | | | | |
| No long-term condition | 13,014 | 326 (2.50) | 68.13 | 4.79 (4.29-5.33) |
| Chronic condition | 6,659 | 257 (3.86) | 29.95 | 8.58 (7.59-9.70) |
| Life-limiting condition | 5,465 | 181 (3.31) | 23.44 | 7.72 (6.67-8.93) |
| Sex | | | | |
| Male | 14,130 | 317 (2.24) | 69.79 | 4.54 (4.07-5.07) |
| Female | 11,008 | 447 (4.06) | 51.73 | 8.64 (7.88-9.48) |
| Ethnicity | | | | |
| White | 20,087 | 669 (3.33) | 96.21 | 6.95 (6.45-7.50) |
| Black | 586 | ≤10 | 2.37 | 2.53 (1.14-5.63) |
| South Asian | 886 | ≤10 | 3.71 | 2.42 (1.26-4.66) |
| Other Asian | 296 | ≤10 | 1.18 | 5.91 (2.82-12.40) |
| Other | 322 | ≤10 | 1.37 | 1.46 (0.36-5.83) |
| Mixed | 572 | 12 (2.10) | 2.35 | 5.11 (2.90-9.00) |
| Missing | 2,389 | 59 (2.47) | 14.33 | 4.12 (3.19-5.32) |
| Deprivation Status | | | | |
| 1 (least deprived) | 6,351 | 220 (3.46) | 32.78 | 6.71 (5.88-7.66) |
| 2 | 5,211 | 148 (2.84) | 25.74 | 5.75 (4.90-6.76) |
| 3 | 4,731 | 150 (3.17) | 22.55 | 6.65 (5.67-7.80) |
| 4 | 4,644 | 118 (2.54) | 21.52 | 5.48 (4.58-6.57) |
| 5 (most deprived) | 4,186 | 128 (3.06) | 18.86 | 6.79 (5.71-8.07) |
| Missing | 15 | 0 (0.0) | 0.07 | 0.00 (0.00-0.00) |
| Maternal Mental Health | Conditions | | | |
| None | 14,504 | 331 (2.28) | 68.22 | 4.85 (4.36-5.40) |
| Common mental health disorder | 10,299 | 417 (4.05) | 51.79 | 8.05 (7.31-8.86) |
| Severe mental illness | 335 | 16 (4.78) | 1.52 | 10.56 (6.47-17.24) |

Cell values of 10 or less are censored ('≤10') and some cells with values greater than 10 are also censored (^) to prevent censored cells being determined by differencing. Removed children and young people with missing deprivation status data.

The crude IRRs demonstrated that the incidence of anxiety and/or depression was significantly higher in the life-limiting condition group (IRR = 1.61, 95% CI: 1.34-1.93) and the chronic condition group (IRR = 1.79, 95% CI: 1.52-2.11) compared to the no long-term condition group (Table 39). Adjusting for sex, age, ethnicity and deprivation status (Model 3A) reduced the IRRs in both the life-limiting condition group (IRR = 1.41, 95% CI: 1.18-1.70) and the chronic condition group (IRR = 1.59, 95% CI: 1.35-1.88). However, the incidence in these groups was still significantly higher than that observed in the no long-term condition group. This was also observed when exposure to maternal mental health conditions was added to the model (Model 3B).

However, the additional adjustment for annual GP visits (Model 3B) further reduced the IRRs, meaning that the difference in incidence between the life-limiting condition group and the no long-term condition group was no longer significant. The BIC for Model 3C was the smallest. However, as Models 3B and 3C adjusted for potential mediators (maternal mental health, annual GP visits), Model 3A was the most robust.

The incidence of anxiety and/or depression was significantly higher among females, children who were older at study entry and children and young people who visited the GP more frequently. Conversely, children and young people from a South Asian origin, those with ethnicity classified as Other and those with missing ethnicity data all had a significantly lower incidence of anxiety and/or depression compared to children and young people from the White ethnic group. Incidence was also significantly higher among children and young people whose mothers had a common mental health disorder or a severe mental illness compared to children and young people whose mothers had no mental health conditions. These trends remained consistent when children and young people with missing ethnicity data were removed from Model 3C (Appendix 12).

| Group/Covariate | Crude incidence rate ratio (95% CI) | Model 3A: Adjusted incidence rate ratio (95% CI) | Model 3B: Adjusted incidence rate ratio (95% CI) | Model 3C: Adjusted incidence rate ratio (95% CI) |
|----------------------------------|---|--|--|--|
| Condition Group | | | | • |
| No long-term condition | 1.00 (ref) | 1.00 (ref) | 1.00 (ref) | 1.00 (ref) |
| Chronic condition | 1.79 (1.52-2.11)** | 1.59 (1.35-1.88)** | 1.53 (1.30-1.81)** | 1.36 (1.15-1.61)** |
| Life-limiting condition | 1.61 (1.34-1.93)** | 1.41 (1.18-1.70)** | 1.36 (1.13-1.64)** | 1.04 (0.85-1.26) |
| Sex | | | | · |
| Male | 1.00 (ref) | 1.00 (ref) | 1.00 (ref) | 1.00 (ref) |
| Female | 1.90 (1.65-2.20)** | 1.98 (1.71-2.28)** | 1.99 (1.72-2.30)** | 1.91 (1.65-2.20)** |
| Age at Study Entry | 1.19 (1.17-1.21)** | 1.18 (1.16-1.21)** | 1.18 (1.16-1.21)** | 1.17 (1.15-1.19)** |
| Ethnicity | | | | |
| White | 1.00 (ref) | 1.00 (ref) | 1.00 (ref) | 1.00 (ref) |
| Black | 0.36 (0.16-0.81)* | 0.46 (0.20-1.02) | 0.51 (0.23-1.15) | 0.46 (0.21-1.04) |
| South Asian | 0.35 (0.18-0.67)** | 0.42 (0.21-0.80)** | 0.46 (0.24-0.89)* | 0.41 (0.21-0.79)** |
| Other Asian | 0.85 (0.40-1.79) | 1.04 (0.49-2.19) | 1.16 (0.55-2.44) | 1.08 (0.51-2.29) |
| Other | 0.21 (0.05-0.84)* | 0.22 (0.05-0.88)* | 0.22 (0.06-0.90)* | 0.24 (0.06-0.96)* |
| Mixed | 0.73 (0.41-1.30) | 0.91 (0.51-1.61) | 0.90 (0.51-1.60) | 0.80 (0.45-1.43) |
| Missing | 0.59 (0.45-0.77)** | 0.57 (0.43-0.75)** | 0.59 (0.45-0.78)** | 0.64 (0.49-0.84)** |
| Deprivation Status | | | | |
| 1 (least deprived) | 1.00 (ref) | 1.00 (ref) | 1.00 (ref) | 1.00 (ref) |
| 2 | 0.86 (0.70-1.06) | 0.79 (0.64-0.98)* | 0.78 (0.64-0.96)* | 0.81 (0.65-0.99)* |
| 3 | 0.99 (0.81-1.22) | 0.90 (0.73-1.11) | 0.88 (0.71-1.08) | 0.93 (0.75-1.14) |
| 4 | 0.82 (0.65-1.02) | 0.77 (0.62-0.97)* | 0.74 (0.59-0.92)** | 0.77 (0.62-0.97)* |
| 5 (most deprived) | 1.01 (0.81-1.26) | 0.98 (0.78-1.22) | 0.90 (0.72-1.12) | 0.96 (0.77-1.20) |
| Maternal Mental He | | 1 | 1 | |
| None | 1.00 (ref) | 1.00 (ref) | 1.00 (ref) | 1.00 (ref) |
| Common mental health disorder | 1.66 (1.44-1.92)** | NA | 1.56 (1.34-1.80)** | 1.53 (1.32-1.77)** |
| Severe mental illness | 2.18 (1.32-3.59)** | NA | 2.05 (1.24-3.40)** | 1.69 (1.02-2.81)* |
| | | | | |
| Annual GP Visits | 1.09 (1.08-1.09)** | NA | NA | 1.08 (1.07-1.09)** |
| BIC | NA | 6906.819 | 6888.292 | 6622.25 |

p*≤0.05 *p*≤0.01

NA: Not applicable

Crude IRR: no adjustment (model uses covariate of interest as independent variable)

Model 3A: adjusted for sex, age, ethnicity and deprivation status

Model 3B: adjusted for sex, age, ethnicity, deprivation status and maternal mental health conditions **Model 3C:** adjusted for sex, age, ethnicity, deprivation status maternal mental health conditions and annual GP visits

Children and young people with missing deprivation status data were not included in models.

Only a small proportion of children and young people (10.0%) had incident cases of both anxiety and depression during the study period. The vast majority of children and young people (99.0%) with incident cases of anxiety or depression were also included as cases of 'anxiety and/or depression'. The exceptions to this were children and young people with incident anxiety who also had a prevalent case of depression (or vice versa), and therefore were excluded from the analysis of the incidence of 'anxiety and/or depression' (Figure 35).

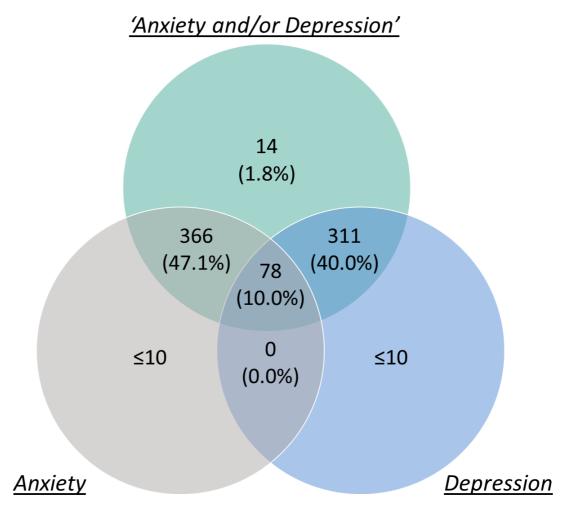


Figure 35. Venn diagram showing the overlap of children and young people with incident cases of anxiety, depression and 'anxiety and/or depression' Values of 10 or less are censored ('≤10').

5.6 Factors Associated with Anxiety, Depression or 'Anxiety and/or Depression'

This section describes the results of the analysis for research questions 4-6 which involved examining what factors were associated with anxiety, depression or 'anxiety and/or depression' and how these factors compared across the three condition groups. The factors analysed were sex, age at study entry, ethnicity, deprivation status, annual GP visits and exposure to maternal mental health conditions.

<u>Sex</u>

The incidence of anxiety, depression and 'anxiety and/or depression' was significantly higher in females compared to males across all three condition groups (Figure 36, Table 40). In all condition groups, the confidence intervals for the female anxiety/depression/'anxiety and/or depression' incidence estimates were wider than those for males, showing a higher degree of variability. The significant difference in incidence between males and females was observed in both the crude and adjusted incidence rate ratios. The largest difference in incidence between males and females was seen for depression incidence in the no long-term condition group (IRR = 2.60, 95% CI: 1.84-3.67), demonstrating that the incidence among females was more than double that observed among males.

Age at Study Entry

Age at study entry was significantly associated with the incidence of anxiety, depression and 'anxiety and/or depression' in all condition groups (Table 41). The highest incidence rate ratios comparing ages were observed for depression incidence, which was 1.26 (95% CI: 1.20-1.33) in the life-limiting condition group, indicating a 26% increase in depression incidence for every one year increase in a child's age at entry to the study. Similar incidence rate ratios for depression prevalence were observed in the other condition groups: 1.23 (95% CI: 1.19-1.28) in the chronic condition group and 1.24 (95% CI: 1.19-1.29) in the no long-term condition group.

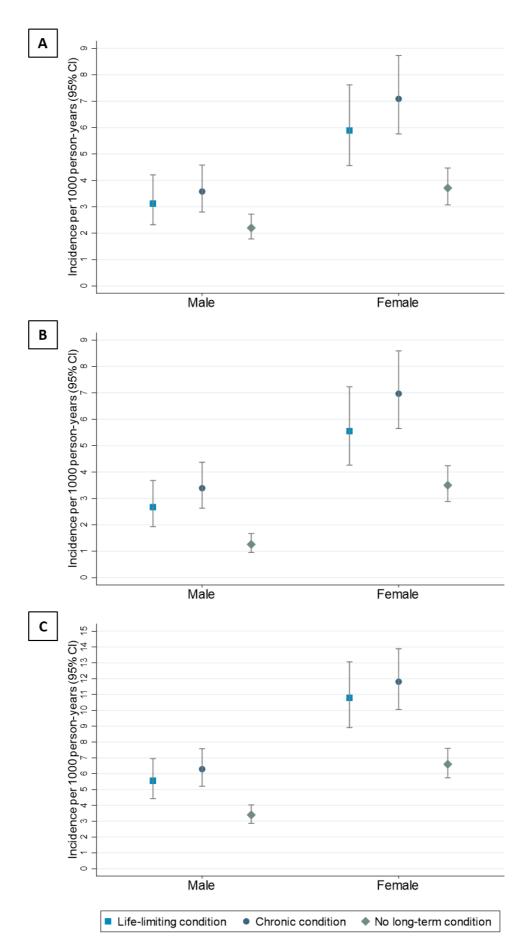


Figure 36. Crude incidence of A) anxiety, B) depression, C) 'anxiety and/or depression' per 1,000 person years with 95% CIs by sex, stratified by condition group

Table 40. Incidence of anxiety, depression and 'anxiety and/or depression' per 1,000 person-years, crude and adjusted incidence rate ratios by sex, stratified by condition group

| | Life-limiting condition | | Chronic | condition | No long-te | No long-term condition | |
|--|-------------------------|--------------------|------------------|---------------------|------------------|------------------------|--|
| | Male | Female | Male | Female | Male | Female | |
| Anxiety | | | | | | | |
| Crude incidence per 1,000 person-years | 3.12 (2.32-4.21) | 5.89 (4.56-7.62) | 3.58 (2.80-4.58) | 7.09 (5.76-8.73) | 2.20 (1.78-2.72) | 3.71 (3.07-4.47) | |
| Crude incidence rate ratio (95% CI) | 1.00 (ref) | 1.89 (1.27-2.80)** | 1.00 (ref) | 1.98 (1.44-2.74)** | 1.00 (ref) | 1.68 (1.27-2.22)** | |
| Adjusted incidence rate ratio (95% CI) | 1.00 (ref) | 1.87 (1.26-2.78)** | 1.00 (ref) | 1.73 (1.25-2.40)** | 1.00 (ref) | 1.55 (1.17-2.07)** | |
| Depression | | | | | | | |
| Crude incidence per 1,000 person-years | 2.67 (1.93-3.68) | 5.55 (4.26-7.23) | 3.39 (2.63-4.37) | 6.97 (5.65-8.59) | 1.26 (0.95-1.67) | 3.50 (2.88-4.24) | |
| Crude incidence rate ratio (95% CI) | 1.00 (ref) | 2.08 (1.37-3.16)** | 1.00 (ref) | 2.05 (1.48-2.85)** | 1.00 (ref) | 2.77 (1.97-3.89)** | |
| Adjusted incidence rate ratio (95% CI) | 1.00 (ref) | 2.09 (1.37-3.17)** | 1.00 (ref) | 1.81 (1.30-2.52)** | 1.00 (ref) | 2.60 (1.84-3.67)** | |
| Anxiety and/or Depression | | | | | | | |
| Crude incidence per 1,000 person-years | 5.55 (4.43-6.95) | 10.79 (8.91-13.06) | 6.29 (5.21-7.58) | 11.81 (10.05-13.89) | 3.40 (2.86-4.03) | 6.60 (5.74-7.60) | |
| Crude incidence rate ratio (95% CI) | 1.00 (ref) | 1.94 (1.45-2.61)** | 1.00 (ref) | 1.88 (1.47-2.41)** | 1.00 (ref) | 1.94 (1.56-2.42)** | |
| Adjusted incidence rate ratio (95% CI) | 1.00 (ref) | 1.94 (1.45-2.61)** | 1.00 (ref) | 1.69 (1.32-2.17)** | 1.00 (ref) | 1.80 (1.44-2.26)** | |

Cell values of 10 or less are censored (\leq 10') and some cells with values greater than 10 are also censored ($^$) to prevent censored cells being determined by differencing * $p\leq$ 0.05 ** $p\leq$ 0.01 **NA:** Not applicable

Crude IRR: no adjustment (model uses covariate of interest as independent variable)

Adjusted IRR: adjusted for age, ethnicity, deprivation status, annual GP visits and maternal mental health conditions

Table 41. Crude and adjusted incidence rate ratios for age, stratified by condition

 group

| | Life-limiting condition | Chronic condition | No long-term condition |
|--|-------------------------|--------------------|---------------------------|
| Anxiety | | | |
| Crude incidence rate ratio (95% CI) | 1.14 (1.08-1.19)** | 1.14 (1.09-1.18)** | 1.12 (1.08-1.17)** |
| Adjusted incidence rate ratio (95% CI) | 1.12 (1.07-1.18)** | 1.12 (1.08-1.17)** | 1.12 (1.08-1.16)** |
| Depression | | | |
| Crude incidence rate ratio (95% CI) | 1.28 (1.21-1.34)** | 1.26 (1.21-1.31)** | 1.26 (1.21-1.31)** |
| Adjusted incidence rate ratio (95% CI) | 1.26 (1.20-1.33)** | 1.23 (1.19-1.28)** | 1.24 (1.19-1.29)** |
| Anxiety and/or depression | | | |
| Crude incidence rate ratio (95% CI) | 1.19 (1.15-1.24)** | 1.19 (1.15-1.22)** | 1.17 (1.14-1.21)** |
| Adjusted incidence rate ratio (95% CI) | 1.18 (1.14-1.23)** | 1.17 (1.13-1.20)** | 1.16 (1.13-1.20)** |

Cell values of 10 or less are censored ('≤10') and some cells with values greater than 10 are also censored (^) to prevent censored cells being determined by differencing

p*≤0.05 *p*≤0.01 **NA:** Not applicable

Crude IRR: no adjustment (model uses covariate of interest as independent variable)

Adjusted IRR: adjusted for sex, ethnicity, deprivation status, annual GP visits and maternal mental health conditions

Ethnicity

In all three condition groups, the crude incidence of anxiety, depression and 'anxiety and/or depression' was higher among children and young people from a White ethnic origin compared to those from the Other ethnic group (Figure 37, Tables 42-44). Additionally, in all condition groups the confidence intervals for the incidence estimates were wider in the Other ethnic group compared to the White group, showing more variability in incidence among children and young people from the Other ethnic group. However, the differences in incidence between the White and Other ethnic group were only statistically significant in the adjusted models for depression incidence in the no long-term condition group (IRR = 0.31, 95% CI: 0.10-0.98) and for 'anxiety and/or depression' in the chronic condition group (IRR = 0.40, 95% CI: 0.21-0.75). In both of these models, in addition to the model for 'anxiety and/or depression' in the no long-term condition group, the incidence of depression or 'anxiety and/or depression' was also significantly lower among children and young people with missing ethnicity data compared to children and young people from the White ethnic group.

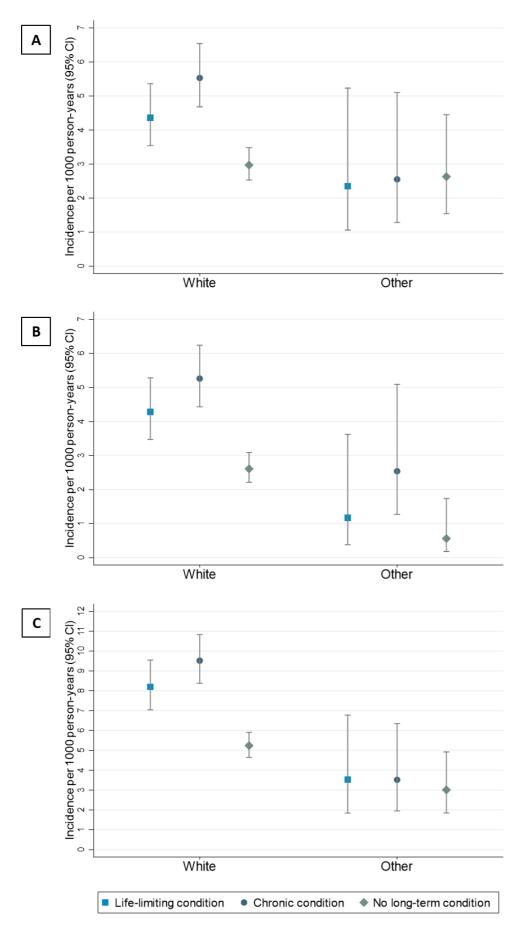


Figure 37. Crude incidence of A) anxiety, B) depression, C) 'anxiety and/or depression' per 1,000 person years with 95% CIs by ethnicity, stratified by condition group

Table 42. Incidence of anxiety, depression and 'anxiety and/or depression' per 1,000 person-years, crude and adjusted incidence rate ratios by ethnicity in the life-limiting condition group

| | Ethnicity | | | |
|--|------------------|-------------------|-------------------|--|
| | White | Other | Missing | |
| Anxiety | | | | |
| Crude incidence per 1,000 person-years | 4.36 (3.54-5.36) | 2.35 (1.06-5.23) | 9.42 (4.23-20.96) | |
| Crude incidence rate ratio (95% CI) | 1.00 (ref) | 0.54 (0.24-1.23) | 2.16 (0.95-4.94) | |
| Adjusted incidence rate ratio (95% CI) | 1.00 (ref) | 0.67 (0.29-1.56) | 2.40 (1.04-5.53) | |
| Depression | | | | |
| Crude incidence per 1,000 person-years | 4.28 (3.47-5.28) | 1.17 (0.38-3.62) | 1.54 (0.22-10.91) | |
| Crude incidence rate ratio (95% CI) | 1.00 (ref) | 0.27 (0.09-0.86)* | 0.36 (0.05-2.58) | |
| Adjusted incidence rate ratio (95% CI) | 1.00 (ref) | 0.36 (0.11-1.14) | 0.38 (0.05-2.73) | |
| Anxiety and/or Depression | | | | |
| Crude incidence per 1,000 person-years | 8.20 (7.04-9.55) | 3.53 (1.84-6.78) | 9.42 (4.23-20.97) | |
| Crude incidence rate ratio (95% CI) | 1.00 (ref) | 0.43 (0.22-0.84)* | 1.15 (0.51-2.59) | |
| Adjusted incidence rate ratio (95% CI) | 1.00 (ref) | 0.53 (0.27-1.05) | 1.24 (0.55-2.82) | |

Cell values of 10 or less are censored (\leq 10') and some cells with values greater than 10 are also censored ($^$) to prevent censored cells being determined by differencing

* $p \le 0.05$ ** $p \le 0.01$ NA: Not applicable

Crude IRR: no adjustment (model uses covariate of interest as independent variable)

Adjusted IRR: adjusted for sex, age, deprivation status, annual GP visits and maternal mental health conditions

Table 43. Incidence of anxiety, depression and 'anxiety and/or depression' per 1,000 person-years, crude and adjusted incidence rate ratios by ethnicity in the chronic condition group

| | Ethnicity | | | |
|--|-------------------|--------------------|-------------------|--|
| | White | Other | Missing | |
| Anxiety | | | | |
| Crude incidence per 1,000 person-years | 5.53 (4.68-6.54) | 2.55 (1.28-5.10) | 3.10 (1.48-6.49) | |
| Crude incidence rate ratio (95% CI) | 1.00 (ref) | 0.46 (0.23-0.94)* | 0.56 (0.26-1.20) | |
| Adjusted incidence rate ratio (95% CI) | 1.00 (ref) | 0.49 (0.24-1.03) | 0.53 (0.25-1.14) | |
| Depression | | | | |
| Crude incidence per 1,000 person-years | 5.26 (4.43-6.24) | 2.54 (1.27-5.09) | 3.97 (2.07-7.63) | |
| Crude incidence rate ratio (95% CI) | 1.00 (ref) | 0.48 (0.24-0.99) | 0.76 (0.38-1.48) | |
| Adjusted incidence rate ratio (95% CI) | 1.00 (ref) | 0.63 (0.30-1.30) | 0.67 (0.34-1.32) | |
| Anxiety and/or Depression | | | | |
| Crude incidence per 1,000 person-years | 9.52 (8.38-10.83) | 3.52 (1.95-6.35) | 5.35 (3.04-9.42) | |
| Crude incidence rate ratio (95% CI) | 1.00 (ref) | 0.37 (0.20-0.68)** | 0.56 (0.31-1.00) | |
| Adjusted incidence rate ratio (95% CI) | 1.00 (ref) | 0.40 (0.21-0.75)** | 0.54 (0.30-0.97)* | |

Cell values of 10 or less are censored ('<10') and some cells with values greater than 10 are also censored (^) to prevent censored cells being determined by differencing

p*≤0.05 *p*≤0.01 **NA:** Not applicable

Crude IRR: no adjustment (model uses covariate of interest as independent variable)

Adjusted IRR: adjusted for sex, age, deprivation status, annual GP visits and maternal mental health conditions

Table 44. Incidence of anxiety, depression and 'anxiety and/or depression' per 1,000 person-years, crude and adjusted incidence rate ratios by ethnicity in the no long-term condition group

| | Ethnicity | | | |
|--|------------------|--------------------|--------------------|--|
| | White | Other | Missing | |
| Anxiety | | | | |
| Crude incidence per 1,000 person-years | 2.97 (2.53-3.48) | 2.63 (1.56-4.45) | 2.44 (1.69-3.54) | |
| Crude incidence rate ratio (95% CI) | 1.00 (ref) | 0.89 (0.51-1.53) | 0.82 (0.55-1.23) | |
| Adjusted incidence rate ratio (95% CI) | 1.00 (ref) | 1.01 (0.58-1.76) | 0.83 (0.55-1.25) | |
| Depression | | | | |
| Crude incidence per 1,000 person-years | 2.61 (2.21-3.09) | 0.56 (0.18-1.74) | 1.30 (0.78-2.16) | |
| Crude incidence rate ratio (95% CI) | 1.00 (ref) | 0.22 (0.07-0.68)** | 0.50 (0.29-0.85)* | |
| Adjusted incidence rate ratio (95% CI) | 1.00 (ref) | 0.31 (0.10-0.98)* | 0.47 (0.27-0.80)** | |
| Anxiety and/or Depression | | | | |
| Crude incidence per 1,000 person-years | 5.24 (4.65-5.91) | 3.01 (1.85-4.92) | 3.58 (2.64-4.87) | |
| Crude incidence rate ratio (95% CI) | 1.00 (ref) | 0.57 (0.35-0.95)* | 0.68 (0.49-0.95)* | |
| Adjusted incidence rate ratio (95% CI) | 1.00 (ref) | 0.71 (0.42-1.18) | 0.68 (0.49-0.94)* | |

Cell values of 10 or less are censored (\leq 10') and some cells with values greater than 10 are also censored ($^$) to prevent censored cells being determined by differencing

p*≤0.05 *p*≤0.01 **NA:** Not applicable

Crude IRR: no adjustment (model uses covariate of interest as independent variable)

Adjusted IRR: adjusted for sex, age, deprivation status, annual GP visits and maternal mental health conditions

Deprivation Status

No clear trend was observed for the difference in the incidence of anxiety, depression or 'anxiety and/or depression' by deprivation status (Figure 38, Tables 45-47). For example, in the life-limiting condition and chronic condition groups, the incidence of anxiety was highest among children and young people from the least deprived category. Conversely, the incidence of depression in the life-limiting condition and chronic condition groups was highest among children and young people from the most deprived category. The incidence of 'anxiety and/or depression' was also highest among children and young people from the most deprived category in the life-limiting condition group. However, none of the differences in the incidence of anxiety, depression or 'anxiety and/or depression' by deprivation status were significant in the crude or adjusted models for any of the condition groups.

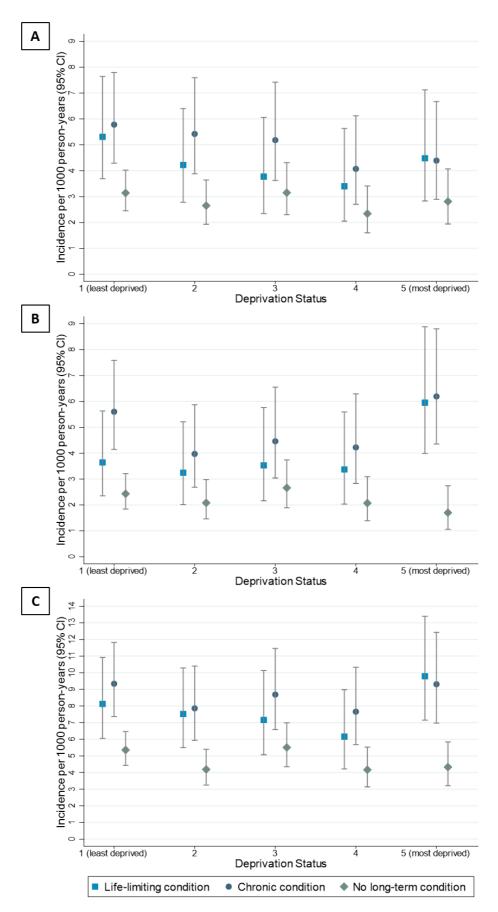


Figure 38. Crude incidence of A) anxiety, B) depression, C) 'anxiety and/or depression' per 1,000 person years with 95% CIs by deprivation status, stratified by condition group

Table 45. Incidence of anxiety, depression and 'anxiety and/or depression' per 1,000 person-years, crude and adjusted incidence rate ratios by deprivation status in the life-limiting condition group

| | Deprivation Status | | | | |
|--|--------------------|-------------------|-------------------|------------------|-------------------|
| | 1 (least deprived) | 2 | 3 | 4 | 5 (most deprived) |
| Anxiety | | | | | |
| Crude incidence per 1,000 person-years | 5.31 (3.69-7.64) | 4.22 (2.78-6.40) | 3.77 (2.34-6.06) | 3.40 (2.05-5.63) | 4.48 (2.83-7.12) |
| Crude incidence rate ratio (95% CI) | 1.00 (ref) | 0.79 (0.46-1.38) | 0.71 (0.39-1.29) | 0.64 (0.34-1.19) | 0.84 (0.47-1.52) |
| Adjusted incidence rate ratio (95% CI) | 1.00 (ref) | 0.75 (0.43-1.30) | 0.69 (0.38-1.26) | 0.62 (0.33-1.15) | 0.82 (0.45-1.49) |
| Depression | | | | | |
| Crude incidence per 1,000 person-years | 3.64 (2.35-5.63) | 3.24 (2.01-5.21) | 3.53 (2.16-5.76) | 3.37 (2.03-5.59) | 5.95 (3.99-8.88) |
| Crude incidence rate ratio (95% CI) | 1.00 (ref) | 0.89 (0.47-1.70) | 0.97 (0.50-1.87) | 0.93 (0.47-1.81) | 1.64 (0.90-2.96) |
| Adjusted incidence rate ratio (95% CI) | 1.00 (ref) | 0.83 (0.43-1.58) | 0.91 (0.47-1.77) | 0.84 (0.43-1.64) | 1.59 (0.88-2.90) |
| Anxiety and/or Depression | | | | | |
| Crude incidence per 1,000 person-years | 8.13 (6.05-10.92) | 7.52 (5.50-10.29) | 7.16 (5.07-10.13) | 6.16 (4.22-8.98) | 9.79 (7.15-13.39) |
| Crude incidence rate ratio (95% CI) | 1.00 (ref) | 0.93 (0.60-1.42) | 0.88 (0.56-1.39) | 0.76 (0.47-1.22) | 1.20 (0.78-1.85) |
| Adjusted incidence rate ratio (95% CI) | 1.00 (ref) | 0.87 (0.56-1.34) | 0.85 (0.54-1.35) | 0.73 (0.45-1.18) | 1.18 (0.76-1.83) |

Cell values of 10 or less are censored (\leq 10') and some cells with values greater than 10 are also censored ($^$) to prevent censored cells being determined by differencing * $p\leq$ 0.05 ** $p\leq$ 0.01 **NA:** Not applicable

Crude IRR: no adjustment (model uses covariate of interest as independent variable)

Adjusted IRR: adjusted for sex, age, ethnicity, annual GP visits and maternal mental health conditions

Table 46. Incidence of anxiety, depression and 'anxiety and/or depression' per 1,000 person-years, crude and adjusted incidence rate ratios by deprivation status in the chronic condition group

| | Deprivation Status | | | | |
|--|--------------------|-------------------|-------------------|-------------------|-------------------|
| | 1 (least deprived) | 2 | 3 | 4 | 5 (most deprived) |
| Anxiety | | | | | |
| Crude incidence per 1,000 person-years | 5.78 (4.29-7.79) | 5.42 (3.88-7.59) | 5.18 (3.62-7.42) | 4.07 (2.70-6.12) | 4.39 (2.89-6.67) |
| Crude incidence rate ratio (95% CI) | 1.00 (ref) | 0.94 (0.60-1.47) | 0.90 (0.56-1.43) | 0.70 (0.42-1.17) | 0.76 (0.45-1.27) |
| Adjusted incidence rate ratio (95% CI) | 1.00 (ref) | 0.86 (0.55-1.36) | 0.86 (0.54-1.38) | 0.72 (0.43-1.20) | 0.64 (0.37-1.10) |
| Depression | | | | | |
| Incidence per 1,000 person-years | 5.60 (4.14-7.58) | 3.97 (2.68-5.87) | 4.46 (3.04-6.55) | 4.22 (2.83-6.29) | 6.19 (4.35-8.80) |
| Crude incidence rate ratio (95% CI) | 1.00 (ref) | 0.71 (0.43-1.16) | 0.80 (0.49-1.30) | 0.75 (0.46-1.24) | 1.10 (0.69-1.76) |
| Adjusted incidence rate ratio (95% CI) | 1.00 (ref) | 0.68 (0.41-1.11) | 0.76 (0.47-1.25) | 0.77 (0.47-1.28) | 1.08 (0.67-1.73) |
| Anxiety and/or Depression | | | | | |
| Incidence per 1,000 person-years | 9.34 (7.37-11.82) | 7.86 (5.94-10.40) | 8.69 (6.58-11.46) | 7.66 (5.68-10.33) | 9.31 (6.97-12.43) |
| Crude incidence rate ratio (95% CI) | 1.00 (ref) | 0.84 (0.58-1.21) | 0.93 (0.65-1.34) | 0.82 (0.56-1.20) | 1.00 (0.67-1.45) |
| Adjusted incidence rate ratio (95% CI) | 1.00 (ref) | 0.79 (0.55-1.14) | 0.92 (0.64-1.32) | 0.86 (0.59-1.26) | 1.00 (0.69-1.46) |

Cell values of 10 or less are censored ('<10') and some cells with values greater than 10 are also censored (^) to prevent censored cells being determined by differencing * $p \le 0.05$ ** $p \le 0.01$ NA: Not applicable

Crude IRR: no adjustment (model uses covariate of interest as independent variable)

Adjusted IRR: adjusted for sex, age, ethnicity, annual GP visits and maternal mental health conditions

Table 47. Incidence of anxiety, depression and 'anxiety and/or depression' per 1,000 person-years, crude and adjusted incidence rate ratios by deprivation status in the no long-term condition group

| | Deprivation Status | | | | |
|--|--------------------|------------------|------------------|------------------|-------------------|
| | 1 (least deprived) | 2 | 3 | 4 | 5 (most deprived) |
| Anxiety | | | | | |
| Crude incidence per 1,000 person-years | 3.14 (2.45-4.02) | 2.65 (1.93-3.64) | 3.15 (2.30-4.31) | 2.34 (1.60-3.41) | 2.81 (1.94-4.07) |
| Crude incidence rate ratio (95% CI) | 1.00 (ref) | 0.84 (0.56-1.26) | 1.00 (0.67-1.50) | 0.74 (0.47-1.17) | 0.90 (0.57-1.40) |
| Adjusted incidence rate ratio (95% CI) | 1.00 (ref) | 0.81 (0.54-1.22) | 0.91 (0.60-1.36) | 0.70 (0.44-1.10) | 0.86 (0.55-1.35) |
| Depression | | | | | |
| Crude incidence per 1,000 person-years | 2.43 (1.84-3.21) | 2.08 (1.46-2.98) | 2.66 (1.89-3.74) | 2.07 (1.39-3.09) | 1.70 (1.06-2.74) |
| Crude incidence rate ratio (95% CI) | 1.00 (ref) | 0.86 (0.54-1.35) | 1.09 (0.70-1.70) | 0.85 (0.52-1.39) | 0.70 (0.40-1.22) |
| Adjusted incidence rate ratio (95% CI) | 1.00 (ref) | 0.81 (0.51-1.27) | 0.96 (0.62-1.50) | 0.76 (0.47-1.24) | 0.65 (0.37-1.13) |
| Anxiety and/or Depression | | | | | |
| Crude incidence per 1,000 person-years | 5.36 (4.43-6.47) | 4.19 (3.25-5.40) | 5.51 (4.35-6.99) | 4.17 (3.14-5.53) | 4.33 (3.21-5.84) |
| Crude incidence rate ratio (95% CI) | 1.00 (ref) | 0.78 (0.57-1.07) | 1.03 (0.76-1.39) | 0.78 (0.55-1.09) | 0.81 (0.57-1.15) |
| Adjusted incidence rate ratio (95% CI) | 1.00 (ref) | 0.74 (0.54-1.02) | 0.92 (0.67-1.25) | 0.72 (0.51-1.01) | 0.77 (0.54-1.10) |

Cell values of 10 or less are censored (\leq 10') and some cells with values greater than 10 are also censored ($^$) to prevent censored cells being determined by differencing * $p\leq$ 0.05 ** $p\leq$ 0.01 **NA:** Not applicable

Crude IRR: no adjustment (model uses covariate of interest as independent variable)

Adjusted IRR: adjusted for sex, age, ethnicity, annual GP visits and maternal mental health conditions

Annual GP Visits

The frequency of GP visits was significantly associated with the incidence of anxiety, depression and 'anxiety and/or depression' in all condition groups (Table 48). The highest incidence rate ratios for all outcomes comparing GP visit frequency were observed in the no long-term condition group, which were 1.17 (95% CI: 1.14-1.20) for anxiety incidence, 1.15 (95% CI: 1.11-1.20) for depression incidence and 1.17 (95% CI: 1.15-1.19) for the incidence of 'anxiety and/or depression'.

Table 48. Crude and adjusted incidence rate ratios for annual GP visits, stratified by condition group

| | Life-limiting condition | Chronic condition | No long-term condition |
|--|-------------------------|--------------------|---------------------------|
| Anxiety | | | |
| Crude incidence rate ratio (95% CI) | 1.06 (1.03-1.08)** | 1.12 (1.11-1.14)** | 1.18 (1.16-1.20)** |
| Adjusted incidence rate ratio (95% CI) | 1.05 (1.02-1.08)** | 1.13 (1.11-1.15)** | 1.17 (1.14-1.20)** |
| Depression | | | |
| Crude incidence rate ratio (95% CI) | 1.06 (1.05-1.07)** | 1.11 (1.08-1.13)** | 1.18 (1.15-1.21)** |
| Adjusted incidence rate ratio (95% CI) | 1.06 (1.04-1.07)** | 1.10 (1.06-1.13)** | 1.15 (1.11-1.20)** |
| Anxiety and/or Depression | | | |
| Crude incidence rate ratio (95% CI) | 1.06 (1.04-1.08)** | 1.11 (1.10-1.13)** | 1.18 (1.16-1.20)** |
| Adjusted incidence rate ratio (95% CI) | 1.06 (1.04-1.08)** | 1.12 (1.09-1.14)** | 1.17 (1.15-1.19)** |

Cell values of 10 or less are censored ('<10') and some cells with values greater than 10 are also censored (^) to prevent censored cells being determined by differencing

p*≤0.05 *p*≤0.01 **NA:** Not applicable

Crude IRR: no adjustment (model uses covariate of interest as independent variable)

Adjusted IRR: adjusted for sex, age, ethnicity, deprivation status and maternal mental health conditions

Maternal Mental Health Conditions

In all condition groups, the crude incidence of anxiety, depression and 'anxiety and/or depression' was higher among children and young people whose mothers had a common mental health disorder compared to children and young people whose mothers had no mental health conditions (Figure 39, Tables 49-51). This difference in incidence was significant in the majority of the adjusted models, with the largest difference in depression incidence observed in the no long-term condition group (IRR = 1.95, 95% CI: 1.41-2.71), indicating that the incidence of depression among children and young people whose mothers had a common mental health disorder was almost twice that found among children and young people whose mothers had no mental health condition.

The differences in the incidence of anxiety, depression and 'anxiety and/or depression' between children and young people whose mothers had a severe mental illness and children and young people whose mothers had no mental health conditions were not so consistent. For example, in the chronic condition and no long-term condition groups, anxiety incidence was higher among children and young people whose mothers had a severe mental illness compared to those whose mothers had no mental health condition. However, the reverse trend was observed in the life-limiting condition group. Importantly, all of the confidence intervals for the incidence of anxiety, depression and 'anxiety and/or depression' among children and young people whose mothers had a severe mental illness were very wide, showing a high degree of variability in incidence. In the life-limiting condition group there was a significantly higher incidence of depression among children and young people whose mothers had a severe mental illness compared to those whose mothers had no mental health conditions (IRR = 3.88, 95% CI: 1.51-9.95). This was the only significant difference in incidence by maternal severe mental illness observed in the adjusted models.

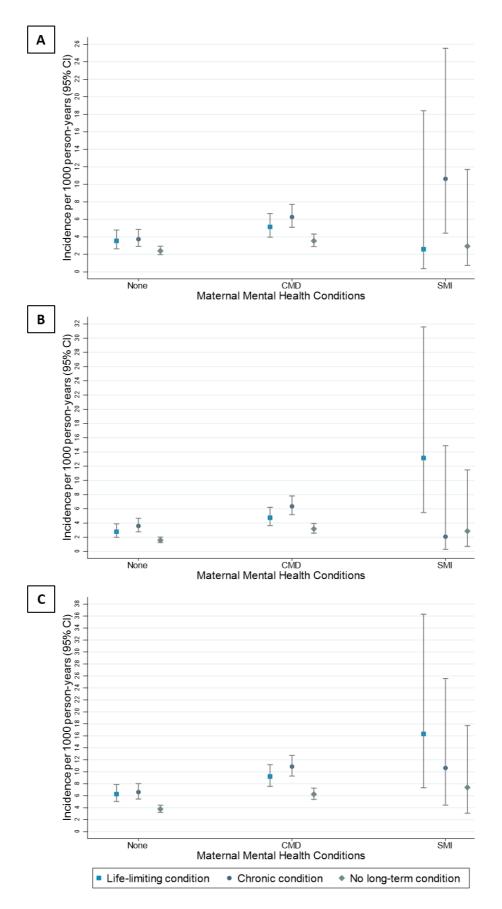


Figure 39. Crude incidence of A) anxiety, B) depression, C) 'anxiety and/or depression' per 1,000 person years with 95% CIs by exposure to maternal mental health conditions, stratified by condition group CMD = common mental health disorder, SMI = severe mental illness **Table 49.** Incidence of anxiety, depression and 'anxiety and/or depression' per 1,000 person-years, crude and adjusted incidence rate ratios by maternal mental health conditions in the life-limiting condition group

| | Maternal Mental Health Conditions | | | |
|--|-----------------------------------|----------------------------------|-----------------------|--|
| | None | Common mental health disorder | Severe mental illness | |
| Anxiety | | | | |
| Crude incidence per 1,000 person-years | 3.54 (2.63-4.78) | 5.14 (3.96-6.66) | 2.59 (0.37-18.41) | |
| Crude incidence rate ratio (95% CI) | 1.00 (ref) | 1.45 (0.98-2.16) | 0.73 (0.10-5.32) | |
| Adjusted incidence rate ratio (95% CI) | 1.00 (ref) | 1.43 (0.95-2.13) | 0.63 (0.09-4.56) | |
| Depression | | | | |
| Incidence per 1,000 person-years | 2.78 (1.99-3.89) | 4.75 (3.63-6.21) | 13.14 (5.47-31.57) | |
| Crude incidence rate ratio (95% CI) | 1.00 (ref) | 1.71 (1.11-2.63)* | 4.73 (1.85-12.08)** | |
| Adjusted incidence rate ratio (95% CI) | 1.00 (ref) | 1.47 (0.95-2.28) | 3.88 (1.51-9.95)** | |
| Anxiety and/or Depression | | | | |
| Incidence per 1,000 person-years | 6.20 (4.95-7.78) | 9.11 (7.49-11.08) | 16.31 (7.33-36.31) | |
| Crude incidence rate ratio (95% CI) | 1.00 (ref) | 1.47 (1.09-1.98)* | 2.63 (1.15-6.04)* | |
| Adjusted incidence rate ratio (95% CI) | 1.00 (ref) | 1.37 (1.01-1.86)* | 2.20 (0.95-5.06) | |

Cell values of 10 or less are censored (\leq 10') and some cells with values greater than 10 are also censored ($^$) to prevent censored cells being determined by differencing

p*≤0.05 *p*≤0.01 **NA:** Not applicable

Crude IRR: no adjustment (model uses covariate of interest as independent variable)

Adjusted IRR: adjusted for sex, age, ethnicity, deprivation status and annual GP visits

Table 50. Incidence of anxiety, depression and 'anxiety and/or depression' per 1,000 person-years, crude and adjusted incidence rate ratios by maternal mental health conditions in the chronic condition group

| | Maternal Mental Health Conditions | | | |
|--|-----------------------------------|----------------------------------|--------------------------|--|
| | None | Common mental health disorder | Severe mental illness | |
| Anxiety | | | | |
| Crude incidence per 1,000 person-years | 3.74 (2.90-4.84) | 6.27 (5.09-7.72) | 10.63 (4.42-25.54) | |
| Crude incidence rate ratio (95% CI) | 1.00 (ref) | 1.67 (1.20-2.33)** | 2.84 (1.14-7.08)* | |
| Adjusted incidence rate ratio (95% CI) | 1.00 (ref) | 1.59 (1.14-2.22)** | 1.50 (0.54-4.22) | |
| Depression | | | | |
| Incidence per 1,000 person-years | 3.60 (2.77-4.68) | 6.36 (5.18-7.81) | 2.09 (0.30-14.87) | |
| Crude incidence rate ratio (95% CI) | 1.00 (ref) | 1.76 (1.26-2.46)** | 0.58 (0.08-4.20) | |
| Adjusted incidence rate ratio (95% CI) | 1.00 (ref) | 1.62 (1.16-2.27)** | 0.57 (0.08-4.13) | |
| Anxiety and/or Depression | | | | |
| Incidence per 1,000 person-years | 6.62 (5.45-8.04) | 10.67 (9.09-12.52) | 10.64 (4.43-25.57) | |
| Crude incidence rate ratio (95% CI) | 1.00 (ref) | 1.61 (1.25-2.07)** | 1.61 (0.66-3.95) | |
| Adjusted incidence rate ratio (95% CI) | 1.00 (ref) | 1.47 (1.14-1.89)** | 1.54 (0.63-3.79) | |

Cell values of 10 or less are censored ('<10') and some cells with values greater than 10 are also censored (^) to prevent censored cells being determined by differencing

* $p \le 0.05$ ** $p \le 0.01$ NA: Not applicable

Crude IRR: no adjustment (model uses covariate of interest as independent variable)

Adjusted IRR: adjusted for sex, age, ethnicity, deprivation status and annual GP visits

Table 51. Incidence of anxiety, depression and 'anxiety and/or depression' per 1,000 person-years, crude and adjusted incidence rate ratios by maternal mental health conditions in the no long-term condition group

| | Maternal Mental Health Conditions | | | |
|--|-----------------------------------|--------------------|-------------------|--|
| | None | Common mental | Severe mental | |
| | | health disorder | illness | |
| Anxiety | | | | |
| Crude incidence per 1,000 person-years | 2.40 (1.97-2.93) | 3.54 (2.89-4.32) | 2.93 (0.73-11.70) | |
| Crude incidence rate ratio (95% CI) | 1.00 (ref) | 1.47 (1.11-1.95)** | 1.22 (0.30-4.94) | |
| Adjusted incidence rate ratio (95% CI) | 1.00 (ref) | 1.41 (1.06-1.88)* | 1.23 (0.30-4.98) | |
| Depression | | | | |
| Incidence per 1,000 person-years | 1.59 (1.25-2.03) | 3.19 (2.58-3.94) | 2.87 (0.72-11.47) | |
| Crude incidence rate ratio (95% CI) | 1.00 (ref) | 2.01 (1.45-2.77)** | 1.81 (0.44-7.38) | |
| Adjusted incidence rate ratio (95% CI) | 1.00 (ref) | 1.95 (1.41-2.71)** | 1.85 (0.45-7.59) | |
| Anxiety and/or Depression | | | | |
| Incidence per 1,000 person-years | 3.79 (3.23-4.43) | 6.25 (5.37-7.27) | 7.38 (3.07-17.73) | |
| Crude incidence rate ratio (95% CI) | 1.00 (ref) | 1.65 (1.33-2.06)** | 1.95 (0.80-4.75) | |
| Adjusted incidence rate ratio (95% CI) | 1.00 (ref) | 1.58 (1.27-1.98)** | 1.98 (0.81-4.84) | |

Cell values of 10 or less are censored ('≤10') and some cells with values greater than 10 are also censored (^) to prevent censored cells being determined by differencing *p≤0.05 **p≤0.01 NA: Not applicable

Crude IRR: no adjustment (model uses covariate of interest as independent variable)

Adjusted IRR: adjusted for sex, age, ethnicity, deprivation status and annual GP visits

5.7 Summary of Findings

The incidence of anxiety, depression and 'anxiety and/or depression' was highest among children and young people with chronic conditions, followed by those in the life-limiting condition group, with the lowest incidence observed among children and young people with no long-term conditions. Although the incidence of all three outcomes were significantly higher in children and young people with chronic conditions compared to those with no long-term conditions in all statistical models, this was not the case for children and young people with life-limiting conditions. Instead, significant differences in the three outcomes were observed between the lifelimiting and no long-term condition groups in the crude models and the models adjusted for sex, age at study entry, ethnicity, deprivation status and exposure to maternal mental health conditions, but not in the models which also adjusted for GP visit frequency. This reflects the fact that children and young people with life-limiting conditions in this study sample visited the GP more, on average, than children and young people with no long-term conditions, and therefore may have had more opportunities to mention any mental health concerns.

Across all condition groups, female sex, older age at study entry and more frequent GP visits were significantly associated with the incidence of anxiety, depression and 'anxiety and/or depression'. A higher incidence of these outcomes was also observed among children and young people from a White ethnic origin and those whose mothers had experienced a common mental health disorder. This trend was observed in all three condition groups. No clear trend was observed between the incidence of these outcomes and deprivation status in any of the condition groups. These findings suggest that the effects of the studied risk factors on the incidence of anxiety, depression or 'anxiety and/or depression' do not differ by condition group.

Chapter 6: Discussion

This chapter discusses the findings presented in this thesis, and their implications for practice and further research. As stated in Chapter 1, the two aims of this thesis were as follows:

- To investigate the incidence and prevalence of anxiety and depression in children and young people with life-limiting conditions
- To examine what factors are associated with the incidence and prevalence of anxiety and depression in children and young people with life-limiting conditions

These aims will be discussed in turn, describing the key findings of the research undertaken to achieve the aims, and integrating these findings into the wider literature.

6.1 Aim 1: To investigate the incidence and prevalence of anxiety and depression in children and young people with life-limiting conditions

As described in Chapter 2, a systematic review and meta-analysis was conducted to examine previous literature investigating the prevalence and incidence of anxiety and depression in children and young people with life-limiting conditions. This review included 36 studies, 19 of which reported anxiety prevalence and 35 reported depression prevalence. None reported anxiety or depression incidence. The findings from this meta-analysis indicated that the prevalence of anxiety and depression in children and young people with life-limiting conditions was substantially higher than that found in the general population of children and young people, as reported in recent epidemiological studies. As such, the pooled anxiety prevalence estimate of 19.1% observed in this analysis was more than double the prevalence of anxiety observed among the general population of children and young people in the UK or the US; 7.2% and 7.1%, respectively (Ghandour et al., 2019, NHS Digital, 2018b). Furthermore, the pooled prevalence of depression found in this meta-analysis, 13.8%, was more than four times the prevalence of depression observed in the general population of children and young people in the US (3.2%), and over six times the prevalence found among children and young people in the UK (2.1%) (Ghandour et al., 2019, NHS Digital, 2018b).

Sub-group analysis and meta-regression found that the prevalence of anxiety and depression varied by certain factors, one of which being the diagnostic group. Namely, the highest pooled prevalence of anxiety (29.4%) was found in children and young people with thalassemia, while the lowest pooled prevalence of anxiety (8.7%) was found in children and young people with neurological conditions. Similarly, the lowest pooled prevalence of depression (7.0%) was found in children and young people with neurological conditions, while the highest pooled prevalence of depression (24.2%) was found among children and young people with HIV. Results from the metaregression analysis showed a significant positive association between age and depression prevalence, reflecting the findings of epidemiological studies in the general population of children and young people in the UK (NHS Digital, 2018a). However, this trend was not found for anxiety prevalence. In addition, sex was not significantly associated with anxiety or depression prevalence. However, many of the studies included in this review could not be included in the meta-regression models due to missing age or sex data, and therefore findings from the models should be interpreted with caution. Prevalence also varied by the type of assessment tool used; anxiety prevalence was higher in studies which used diagnostic interviews, whereas depression prevalence was higher in studies which used self-/parent-report questionnaires. Similar findings have been reported in previous systematic reviews of anxiety and depression prevalence in children and young people with chronic conditions (Palmer et al., 2013, Van Steensel, Bögels and Perrin, 2011). The current review represents the first systematic review of anxiety or depression prevalence or incidence among children and young people with life-limiting conditions, and therefore provides valuable information regarding the epidemiology of these mental health conditions across children and young people with various life-limiting conditions.

No previous studies had assessed the **incidence** of anxiety or depression in children and young people with life-limiting conditions. Therefore, it could not be assumed that the diagnosis of the life-limiting condition occurred before the development of anxiety or depression in the reviewed studies. Consequently, a comparative cohort study was conducted using the CPRD and linked datasets in order to compare the incidence of anxiety and depression among children and young people from three different

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condition groups: life-limiting conditions, chronic conditions and no long-term conditions (Chapters 4 & 5).

The cumulative incidence of anxiety, depression and 'anxiety and/or depression' was calculated by condition group in order to determine the proportion of children and young people in each condition group that had experienced these mental health conditions. The results from this analysis supported the results from the meta-analysis of anxiety and depression reported in this thesis, whereby children and young people with life-limiting conditions had a higher cumulative incidence of anxiety (1.84%, 95% CI: 1.50-2.24%), depression (1.67%, 95% CI: 1.35-2.05%) and 'anxiety and/or depression' (3.31%, 95% CI: 2.85-3.82%) compared to children and young people with no long-term conditions (anxiety - 1.50%, 95% CI: 1.30-1.72%; depression - 1.17%, 95% CI: 0.99-1.37%; anxiety and/or depression – 2.50%, 95% CI: 2.24-2.79%). Although cumulative incidence estimates are not directly comparable to prevalence estimates due to differences in their calculation, it is worth noting that the cumulative incidence of each of the three outcomes was lower than both the pooled prevalence estimates from the meta-analysis and prevalence figures reported for the general population of children and young people in the UK and the US (Ghandour et al., 2019, NHS Digital, 2018b). Several factors could be contributing to this difference. Most notably, the cumulative incidence figures reported in this thesis represent the cumulative incidence of children and young people who present to primary care with anxiety or depression. Therefore, this is likely to be an under representation of the cumulative incidence of anxiety and depression among children and young people in the wider population.

A similar trend was observed for the crude incidence rate of anxiety, which was found to be 4.27 cases per 1,000 person-years (95% CI: 3.52-5.20) in the life-limiting condition group, 5.04 cases per 1,000 person-years (95% CI: 4.30-5.91) in the chronic condition group, and 2.85 cases per 1,000 person-years (95% CI: 2.48-3.28) in the no long-term condition group. The crude incidence of depression was slightly lower, but followed the same trend: 3.87 cases per 1,000 person-years (95% CI: 3.15-4.75) in the life-limiting condition group, 4.88 cases per 1,000 person-years (95% CI: 4.15-5.73) in the chronic condition group, and 2.23 cases per 1,000 person-years (95% CI: 4.15-5.73) in the no long-term condition group.

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Previous studies using primary care data to examine the incidence of anxiety or depression among children and young people analysed the incidence of diagnoses, symptoms and prescriptions separately (John et al., 2015, John et al., 2016b, Wijlaars, Nazareth and Petersen, 2012). This was not done in the current study as the primary aim was to compare the incidence across condition groups rather than to assess trends in the incidence of different indicators of anxiety or depression. Comparing the findings of the current study to those found previously is therefore challenging as previous studies did not generate an overall incidence estimate of anxiety and depression, and the calculation of one from the separate diagnostic, symptom and prescription incidence figures could involve double counting individuals. Nevertheless, it is still valuable to compare the range of values reported previously to those found in the current study in order to identify any marked variations in incidence.

One study of anxiety incidence in children and young people using primary care databases has previously been conducted, which reported the following incidence rates in 2011: 2.37 cases per 1,000 person-years for anxiety diagnoses, 1.50 cases per 1,000 person-years for anxiety symptoms, and 1.97 per 1,000 cases per 1,000 person-years for anxiolytic/hypnotic prescriptions (John et al., 2015). A similar study of depression incidence in children and young people found depression incidence rates in 2013 to be 1.91 cases per 1,000 person-years for new diagnoses, 0.36 cases per 1,000 person-years for recurrent diagnoses, 6.59 cases per 1,000 person-years for depressive symptoms and 7.69 cases per 1,000 person-years for antidepressant prescriptions (John et al., 2016b). Another study of depression incidence in children and young people in 2009 found an incidence of approximately 2.2 cases per 1,000 person-years for depressive symptoms, and approximately 3.7 cases per 1,000 person-years for antidepressant prescriptions in 2009 (Wijlaars, Nazareth and Petersen, 2012).

Although the anxiety incidence estimates found previously do appear to be in a similar range to those generated in the current study, greater variation is apparent between the depression incidence estimates found in the studies, including the current study. Whilst this variation may reflect true differences in the incidence of anxiety and depression, methodological differences between the studies may also account for some of the variation. First, several antidepressants included in the previous studies of 182 depression incidence were excluded from the current study due to the multiple clinical indications for which these medications are used, especially among children and young people with life-limiting conditions (National Institute for Health and Care Excellence (NICE), 2020a, b). One of the antidepressants excluded from the current study, amitriptyline, was found to be commonly prescribed to children and young people for depression in the dataset used by Wijlaars and colleagues (Wijlaars, Nazareth and Petersen, 2012). Therefore, the exclusion of these drugs may have contributed to the lower incidence of depression found in the current study compared to the previous studies. Second, the study conducted by Wijlaars and colleagues classified some anxiety symptoms such as 'Anxiousness' and 'Nerves' as symptoms of depression in their analysis. These codes were not used as depression codes in the current study as it was presumed that they were more likely to relate to a case of anxiety and therefore were included as anxiety codes instead.

As expected, the incidence of anxiety, depression and 'anxiety and/or depression' was higher among children and young people with life-limiting conditions compared to those with no long-term conditions, aligning with the findings for anxiety and depression prevalence reported in the meta-analysis. These differences in incidence were statistically significant in both the crude models and the adjusted models which did not control for GP visit frequency. However, the additional adjustment for GP visit frequency meant that the incidence of anxiety, depression or 'anxiety and/or depression' was no longer significantly higher in the life-limiting condition group compared to the no long-term condition group. This could be due to the fact that children and young people with life-limiting conditions visited the GP more frequently, on average, than those with chronic conditions or no long-term conditions, as shown by the findings of this study. More frequent GP visits could provide more opportunities for them and/or their parents to mention any symptoms of anxiety or depression that they might be experiencing to the GP. Indeed, GP visit frequency has been found to be strongly associated with the detection of mental health conditions, such as anxiety and depression, in previous literature (Koning et al., 2019, Richardson et al., 2010, Walters et al., 2011). However, it cannot be assumed that all GP visits do truly present opportunities to discuss anxiety and depression, especially given the complex treatment regimens associated with many life-limiting condition diagnoses, which is

likely to be the focus of many of the GP visits attended by these children and young people.

Additionally, GP visit frequency is a potential mediator of the relationship between condition group and anxiety/depression, as children and young people with lifelimiting or chronic conditions are likely to visit the GP more frequently than those with no long-term conditions, and, as previously stated, an increase in the frequency of GP visits provides more opportunities for the detection of depression (Jarvis et al., 2020, Koning et al., 2019, Richardson et al., 2010, Walters et al., 2011). Therefore, the results generated from the models adjusting for GP visit frequency should be treated with caution. As maternal mental health is another potential mediator in the relationship between condition group and anxiety/depression (Ferro and Boyle, 2015), the most robust models conducted in this analysis are those which did not adjust for either GP visit frequency or maternal mental health, the conclusions of which suggested that the incidence of anxiety, depression and 'anxiety and/or depression' was significantly higher among children and young people with life-limiting or chronic conditions compared to those with no long-term conditions.

Given the additional challenges that may be faced by children and young people with life-limiting conditions compared to those with chronic conditions, such as the fear of death, it could be expected that children and young people with life-limiting conditions would have a higher incidence of anxiety and depression. However, the incidence of these mental health conditions was lower among children and young people with lifelimiting conditions compared to those with chronic conditions. This could be due to the potential provision of psychological support within the medical teams treating children and young people with life-limiting conditions, however evidence suggests that these types of services are limited (Garralda and Slaveska-Hollis, 2016). Another potential contributing factor to the lower incidence of anxiety and depression in children and young people with life-limiting conditions may be the high prevalence of intellectual disability in this group, especially among children and young people with neurological conditions, such as paediatric multiple sclerosis, Duchenne muscular dystrophy, and other neuromuscular disorders (Astrea et al., 2016, Ekmekci, 2017, Feudtner et al., 2011, Rae and O'Malley, 2016). As discussed in Chapter 1, mild intellectual disability has been found to be associated with an increased prevalence of 184

mental health conditions, such as anxiety and depression (Einfeld, Ellis and Emerson, 2011). However, findings from a systematic review report that the observed prevalence of depression was significantly lower among children and young people with moderate or profound intellectual disability compared to those with borderline intellectual disability, likely due to limited communicative abilities and the inappropriateness of standard diagnostic criteria (Maiano et al., 2018). Similarly, a study of the risk of anxiety and depression among adults with cerebral palsy found a lower incidence of these mental health conditions among adults with intellectual disability compared to those without (Smith et al., 2019). It has been suggested that this could be due to 'diagnostic overshadowing', whereby a clinician overlooks symptoms of anxiety or depression, instead interpreting them as symptoms of the individual's intellectual disability (Mason and Scior, 2004). It is possible, therefore, that underdetection of anxiety or depression would have occurred among children and young people with intellectual disabilities in this study. As a greater proportion of these individuals would have been in the life-limiting condition group, this could explain why the incidence of anxiety and depression was lower in this group compared to the chronic condition group.

Findings from both the meta-analysis and the cohort study suggest that children and young people with life-limiting conditions may have a higher prevalence and incidence of anxiety and depression compared to children and young people with no long-term conditions. This information is important as it is the first time that anxiety and depression have been studied among children and young people with life-limiting conditions as a whole population. However, further research is needed to examine the validity of the diagnosis of these mental health conditions among children and young people with life-limiting conditions.

6.2 Aim 2: To examine what factors are associated with the incidence and prevalence of anxiety and depression in children and young people with life-limiting conditions

As described in Chapter 3, a systematic review and best evidence synthesis was conducted to explore which risk or protective factors have been investigated in studies assessing anxiety and depression among children and young people with life-limiting conditions. This review included a total of 22 studies, 16 of which assessed anxiety symptoms and 21 assessed depressive symptoms.

Findings from this review indicated that there was conflicting evidence for associations between anxiety symptoms and age, sex, and socioeconomic status. Although conflicting evidence was found for associations between depressive symptoms and both age and socioeconomic status, no evidence was found for an association between depressive symptoms and sex. This differs from results found in both the general population and among children and young people with chronic conditions, which report a strong association between anxiety/depression and female sex, age and socioeconomic status (Adams, Chien and Wisk, 2019, Lemstra et al., 2008, NHS Digital, 2018a, Reiss, 2013). Whilst no evidence was found for associations between disease severity and anxiety/depressive symptoms, limited evidence was found for the protective roles of optimism and acceptance against symptoms of anxiety or depression, respectively. This suggests that these psychological factors may have more of an impact on a child or young person's mental health than the objective severity of their life-limiting condition. This review was the first systematic review to investigate factors associated with anxiety and depression in children and young people with lifelimiting conditions, and therefore provides the first opportunity for a comprehensive understanding of the previous research investigating risk and protective factors for these mental health conditions across children and young people with different lifelimiting conditions.

However, the results of the best evidence synthesis need to be interpreted with caution given the small sample sizes of many of the included studies, which could have meant that such studies were underpowered to detect existing associations. In addition, only a small number of life-limiting conditions were examined in these studies, and therefore these findings cannot be generalised to the whole population of children and young people with life-limiting conditions. Moreover, the vast majority of the included studies used cross-sectional analysis. Therefore, it was not known whether the children and young people included in these studies were diagnosed with their life-limiting condition before or after the development of anxiety/depressive symptoms. In addition, the temporality of the associations between the risk/protective factors and anxiety/depressive symptoms could not be assessed. From conducting the systematic review, it was also evident that other factors known to affect the risk of anxiety or depression in children and young people in the general population, such as

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ethnicity and maternal mental health conditions, had not been widely studied among children and young people with life-limiting conditions (Goodman et al., 2011, NHS Digital, 2018a).

Therefore, a large, longitudinal cohort study was needed in order to comprehensively explore the associations between these factors and anxiety and depression incidence in children and young people with life-limiting conditions. As described in Chapters 4 and 5, this was conducted using CPRD and linked datasets. The comparative nature of the study also enabled the associations between these factors and anxiety/depression to be explored by condition status, namely the presence of life-limiting conditions, chronic conditions or no long-term conditions.

Results from this cohort study showed that both female sex and increasing age were significantly associated with the incidence of anxiety, depression and 'anxiety and/or depression' in children and young people with life-limiting conditions. Findings from the best evidence synthesis demonstrated conflicting evidence for associations between age and anxiety/depressive symptoms, and female sex and anxiety symptoms. If the best evidence synthesis was repeated and this cohort study was included, the conclusions of the best evidence synthesis would be altered; limited evidence would be found for female sex and anxiety symptoms, and age and depressive symptoms. This highlights the importance of this cohort study in the generation of evidence for the associations between these factors and anxiety/depression.

Female sex and increasing age were also found to increase the risk of anxiety, depression and 'anxiety and/or depression' in children and young people with chronic conditions and those with no long-term conditions in the current study, supporting the findings from previous literature (Adams, Chien and Wisk, 2019, John et al., 2015, John et al., 2016b). GP visit frequency prior to the diagnosis of anxiety/depression/'anxiety and/or depression' was also significantly associated with the incidence of the respective outcome, regardless of the condition group, supporting findings from previous literature (Koning et al., 2019, Richardson et al., 2010, Walters et al., 2011). In all three condition groups, a higher incidence of anxiety, depression and 'anxiety and/or depression' was observed among children and young people from the White ethnic group, compared to children and young people from Other ethnic groups. The disparity in the identification of mental health conditions between White and minority ethnic groups has been frequently shown in previous literature and may be due to a number of cultural differences in the perception and expression of mental healthrelated symptoms, drawing into question the cultural appropriateness of Western diagnostic systems for non-Western ethnic groups (Adams, Chien and Wisk, 2019, Alegria, Vallas and Pumariega, 2010, Liang, Matheson and Douglas, 2016). Accordingly, Thomas et al. (2011) found that among children and young people reporting symptoms of depression, those from a White ethnic background were significantly more likely to have been diagnosed with and treated for depression, compared to those from a minority ethnic background. These factors offer some explanation for the nonstratified incidence analysis included in this thesis, showing the incidence of anxiety, depression and 'anxiety and/or depression' to be particularly low among children and young people from South Asian backgrounds (Bradby et al., 2007).

Previous studies assessing the incidence of anxiety or depression have reported a higher incidence among children and young people living in more deprived areas (John et al., 2016a, John et al., 2015, Wijlaars, Nazareth and Petersen, 2012). However, this trend was not found to be consistent in the current analysis; although the highest incidence of depression was observed in the most deprived children and young people with life-limiting or chronic conditions, the highest incidence of anxiety was recorded in the least deprived children and young people from these condition groups. The variability in geographical coverage of CPRD practices across England, however, with a higher proportion of practices in the South and London compared to the North does mean that the findings relating to deprivation status may not be generalisable to all areas of England (Herrett et al., 2015).

In all three condition groups, children and young people whose mothers had a diagnosed common mental health disorder had a higher incidence of anxiety, depression and 'anxiety and/or depression' than children and young people whose mothers had no mental health conditions. This was expected given the large body of literature reporting the strong association between maternal depression and child 188

mental health, including a large meta-analysis of 193 studies (Goodman et al., 2011). The proportion of children and young people in this study whose mothers were identified as having a common mental health disorder was high, especially in the lifelimiting and chronic condition groups; 45.3% and 45.5% of children and young people, respectively. The proportion of children and young people in the no long-term condition group whose mothers had a common mental health disorder was lower (37.3%). Similarly high levels of parental anxiety and depression were found in a recent meta-analysis of 23 studies, which assessed the prevalence of these mental health conditions in parents of children and young people with chronic conditions compared to parents of healthy children and young people (Cohn et al., 2020).

Having a parent with a severe mental illness has also been found in previous literature to increase the risk of anxiety and depression among children and young people (Rasic et al., 2014). This was observed in the non-stratified analysis of the current study, with a higher incidence of anxiety, depression and 'anxiety and/or depression' among children and young people whose mothers had a severe mental illness compared to children and young people whose mothers had either a common mental health disorder or no mental health condition. This trend was less consistent in the stratified analysis, however, likely due to the small number of children and young people in each condition group whose mothers had a severe mental illness, and a subsequent lack of power to detect such associations. Therefore, caution must be taken when interpreting these findings and no firm conclusion should be made regarding the true presence or absence of such an association.

The findings of the current study indicate that, among the factors available for analysis in the dataset, the factors associated with the incidence of anxiety and depression in children and young people with life-limiting conditions do not differ from those found in children and young people with chronic conditions or no long-term conditions. Instead, the presence of a life-limiting condition may act as an additional risk factor for anxiety and depression, on top of the more general risk factors which can be present in the lives of many children and young people. Although the best evidence synthesis reported associations between coping style and anxiety/depressive symptoms, these associations could not be investigated in the cohort study, as data relating to these variables were not available from CPRD or HES. Therefore, further studies are needed to investigate the impact of coping style on the incidence of anxiety and depression.

6.3 Strengths & Limitations

6.3.1 Systematic Reviews

Strengths

The two systematic reviews presented in this thesis have many strengths. Importantly, the search strategy used in both reviews was highly comprehensive, including a complete list of diagnoses categorised as life-limiting conditions. This allowed for the identification and inclusion of all relevant studies. Furthermore, the robust methods used to synthesise the evidence identified in these reviews - meta-analyses, subgroup analyses, meta-regression and best evidence synthesis - enabled an in-depth exploration of the epidemiology of anxiety and depression across children and young people with various life-limiting conditions.

Limitations

Limitations in the methodology of both reviews must, however, be noted. Only studies written in English and those conducted in OECD countries were eligible for inclusion in the reviews, which limited the generalisability of the findings to other global regions. In addition, both reviews were limited by the available primary studies. For example, the range of life-limiting conditions included in previous studies has been narrow. Namely, studies have only included children and young people with cancer, cystic fibrosis, HIV, thalassemia, chronic kidney disease, and specific neurological conditions. Therefore, the conclusions of the reviews may not be generalisable to the entire population of children and young people with life-limiting conditions. Furthermore, the number of studies which included children and young people with neurological conditions was small, perhaps due to the difficulty of assessing mental health conditions in these individuals, many of whom will experience co-occurring intellectual disability. As such, a full understanding of the prevalence of anxiety and depression in children and young people with neurological conditions, and the associated risk and protective factors, could not be gained.

The limitations of the included studies further hindered the generation of robust conclusions from the reviews. Many of the studies in both reviews had very small

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sample sizes, potentially reducing the reliability of their findings and consequently the findings from both the meta-analysis and the best evidence synthesis. Importantly, none of the studies included in the meta-analysis and only a small number of studies included in the best evidence synthesis were longitudinal. Therefore, it could not be assumed that the diagnosis of a life-limiting condition preceded the development of anxiety or depression in these studies.

Weaknesses in the reporting of the included studies also limited the reviews' conclusions. Specifically, many of the studies did not report key study data, such as age and sex characteristics, meaning that these studies could not be included in the meta-regression models, which in turn reduced the power of such models. In addition, many of the studies included in the best evidence synthesis did not justify the rationale for investigating certain factors for associations with anxiety or depressive symptoms, which limited the conclusions that could be made about the role of such factors in the development of symptoms of anxiety or depression.

Additionally, the studies included in the reviews used a wide range of different assessment tools to measure anxiety and depression, many of which have not been validated for use in children and young people with life-limiting conditions, limiting the validity of the findings from these studies, and consequently the conclusions from the reviews (Thabrew et al., 2017).

6.3.2 Comparative Cohort Study

<u>Strengths</u>

The comparative cohort study presented in this thesis has a number of strengths. First, the use of data from the Clinical Practice Research Datalink (CPRD), a large and nationally representative dataset (Herrett et al., 2015), along with Hospital Episode Statistics (HES) data, both of which have high levels of medical coding accuracy, enabled a comprehensive comparative analysis of the incidence of anxiety and depression across the three condition groups (life-limiting conditions, chronic conditions, no long-term conditions) (Burns et al., 2012, Campbell et al., 2001, Herrett et al., 2010). Specifically, detailed health records for each child or young person, from both primary and secondary care, meant that the diagnosis of a life-limiting or chronic condition at any point since birth could be identified, and individuals could accurately

be categorised according to their condition group. In addition, the longitudinal nature of this data allowed for the temporality of the association between the diagnosis of a life-limiting condition and the development of anxiety or depression to be investigated for the first time.

The detailed nature of the data available within CPRD and HES, including various mental health indicators, allowed for the development of comprehensive algorithms to identify the presence of anxiety and depression, another major strength of this study. Indeed, a comparative analysis of different methods used to identify anxiety and depression among adolescents from electronic primary care data found that algorithms which included indicators relating to diagnoses, symptoms, and treatment had the highest sensitivity (Cornish et al., 2016). The importance of the inclusion of all of these code types in the algorithms was highlighted by the findings from the current study, which showed that 40.9% of depression codes would have been missed if identification relied on diagnostic codes alone. The additional inclusion of anxiety and depression indicators from secondary care data, which have not been used in previous studies of anxiety and depression incidence among children and young people, further improved the sensitivity of the analysis and the subsequent robustness of the study results (John et al., 2015, John et al., 2016b, Wijlaars, Nazareth and Petersen, 2012). Importantly, the specificity of the analysis and consequently the robustness of the findings was also maximised by the use of exclusion codes in the algorithms to prevent cases of conditions such as OCD, for which some antidepressants are prescribed, being falsely identified as cases of depression or anxiety.

Additionally, the linkage of the dataset to index of multiple deprivation (IMD) data and maternal data allowed for the comparative analysis of the effect of social deprivation and the presence of maternal mental health conditions on anxiety/depression incidence in children and young people from different condition groups.

Limitations

Certain limitations of the study did, however, reduce the robustness of the conclusions that could be drawn from the findings. First, the incidence of anxiety and depression generated from the datasets only represented those children and young people who presented to primary or secondary care with these conditions. As many factors can

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influence the help-seeking behaviour of young people or their parents for potential mental health conditions, the anxiety and depression incidence rates presented in this study are likely to be underestimates of the incidence in the community (Radez et al., 2020, Reardon et al., 2017). In addition, although the validity of medical codes in the data has been found to be high, not all children and young people with anxiety or depression will have received such codes (Burns et al., 2012, Campbell et al., 2001, Herrett et al., 2010). This can occur due to GPs being disinclined to code owing to, amongst other things, time constraints within primary care appointments, the perceived lack of benefit of coding to the patients themselves, and a reluctance to label mental health conditions due to the potential stigmatising nature of such labels (Cresswell et al., 2012, De Lusignan, 2005). In addition, GPs can face challenges when attempting to identify anxiety and depression among children and young people, including a perceived lack of mental health training and knowledge, and a lack of available tools necessary to diagnose these mental health conditions (O'Brien et al., 2016). In order to minimise the impact of this missed coding, the anxiety and depression identification algorithms used in the study utilised comprehensive code lists which included a wide range of different indicators for anxiety and depression, therefore not solely relying on diagnostic or symptom codes, which some GPs may be disinclined to use.

Another potential limitation of the study was the exclusion of a lot of the prescription data from the analysis of the outcomes; namely anxiolytics, hypnotics, and some antidepressants which can be prescribed for symptoms or conditions other than anxiety or depression. This could have resulted in underestimates of the true incidence of anxiety and depression. However, this was necessary as many of the indications for which these drugs are used, such as neuropathic pain and seizures, are far more likely to occur in children and young people with life-limiting conditions. Therefore, the inclusion of such drugs may have generated biased incidence estimates which were not comparable across the three condition groups.

The investigation of factors associated with anxiety and depression incidence was also limited by data availability. First, the stratified analysis, which was important in order to assess differences in the associations between factors and anxiety/depression incidence by condition group, resulted in the use of smaller group sizes. This may have meant that the analysis was underpowered to detect existing associations between certain factors, such as maternal mental health conditions, and anxiety/depression incidence.

The classification of children and young people into condition groups (life-limiting conditions, chronic conditions, and no long-term conditions) was conducted using only diagnostic codes. However, the additional use of prescription codes may have improved the sensitivity of the classification procedure by identifying children and young people who have a prescription code for a condition, such as asthma, but have not had a relevant diagnostic code recorded. Previous research in children with asthma found that the prevalence of children with a diagnosis of asthma was over three times lower than the prevalence of children treated with asthmatic drugs (Mebrahtu, Feltbower and Parslow, 2015). Therefore, some studies have utilised case definition algorithms which incorporate prescription information in the identification of asthma (Granell et al., 2014, Mebrahtu, Feltbower and Parslow, 2016). However, this method could result in the overestimation of asthma as asthmatic medication is also prescribed for other conditions such as viral-induced wheeze, which is very common in young children (Al-Shamrani et al., 2019, Beigelman and Bacharier, 2014).

Additionally, the deprivation status variable used in the study was constructed from the linked index of multiple deprivation (IMD) data relating to the patients' last known home address. However, as this data is not at an individual level, instead being assigned to a neighbourhood as a whole, the findings could have been affected by 'ecological fallacy', whereby false inferences are made about the associations of individual-level variables based on associations found using aggregated data (Blakely and Woodward, 2000). Indeed, not every household within a specific geographical area will experience the same level of deprivation. However, as neighbourhood-level deprivation is an important risk factor for anxiety and depression among children and young people, the deprivation status variable may still be relevant for participants whose household socioeconomic status is at odds to that of the rest of the community (Crump et al., 2014).

Furthermore, due to small group sizes, many of the separate ethnicity categories needed to be combined, both in the non-stratified analysis, with the grouping of all

Black ethnicities, for example, and in the stratified analysis, with the inclusion of only two ethnicity categories: White and Other ethnic groups. Consequently, any differences in the incidence of anxiety and depression among children and young people from different minority ethnic groups, which are known to be present in the general population of children and young people, could not be identified (Ghandour et al., 2019, NHS Digital, 2018a).

In addition, the modifications made to the cohort in order to make it suitable for this study is likely to have disrupted the matching process used to create the original cohort. However, as age and sex were adjusted for in the analysis, any differences in the distributions of these variables resulting from these modifications will have been accounted for. The multiple outcomes assessed in the analysis also necessitated the generation of many models which increased the probability that some of the true null hypotheses will have been rejected (Farcomeni, 2008). Therefore, the findings from this analysis must be interpreted with caution.

As the data used for this study was obtained primarily for another study, the age range of children and young people in the cohort only extended to 18 years of age. This differs from the age range that was used in the systematic reviews (5 to 25 years). Therefore, further research should consider including young people over the age of 18 in order to assess the incidence of anxiety and depression in young adults with different conditions.

Finally, although the datasets used in this study allowed for the analysis of the associations between various important factors such as sex and social deprivation and the incidence of anxiety/depression, no data regarding potential psychological mediators, such as coping style, were available from CPRD or HES. As coping style was identified by the best evidence synthesis to be a potentially important protective factor for anxiety and depression in children and young people with life-limiting conditions, this is a key area for further research.

6.4 Implications for the Care and Support of Children and Young People with Life-Limiting Conditions

This thesis provides further evidence for the potential mental health consequences of living with a life-limiting or chronic condition during childhood and adolescence.

Therefore, the promotion of psychological wellbeing and prevention of mental health difficulties in this population is important. Additionally, the analysis described in this thesis indicates that certain groups of children and young people with life-limiting conditions may be at greater risk of experiencing anxiety and depression, which could have important implications for the targeting of mental health preventative efforts if these findings are supported by future studies.

Results from the best evidence synthesis (Chapter 3) highlight the potential importance of coping style as a protective factor against symptoms of anxiety and depression in children and young people with life-limiting conditions. As this is a modifiable factor, interventions can be designed to encourage the development of more adaptive coping styles. Indeed, a preventative intervention focusing on the development of adaptive coping styles was shown to be effective at improving psychosocial wellbeing in young people with chronic conditions (Douma et al., 2019). Additionally, factors such as a child's ability to participate in social or recreational activities and go to school have been found to mediate the association between chronic conditions and mental health conditions such as anxiety and depression (Adams, Chien and Wisk, 2019). This suggests that the provision of assistance and/or removal of barriers for children and young people to enable them to take part in such activities may be beneficial for their mental health.

It is also important that symptoms of mental health conditions can be rapidly identified in order for psychological support to be provided. One way to achieve this is by regular psychological screening; recommendations of which are highlighted in guidance for conditions such as cystic fibrosis, cancer, cerebral palsy, and duchenne muscular dystrophy (Birnkrant et al., 2018, National Institute for Health and Care Excellence (NICE), 2014a, 2017, 2018, Quittner, Saez-Flores and Barton, 2016). However, although annual psychological screening for children and young people with cystic fibrosis has been recommended by the European International Mental Health Guidelines Committee (IMHGC) in Cystic Fibrosis, an evaluation of the effectiveness of these guidelines two years after their publication found that screening had only been implemented in 50% of paediatric cystic fibrosis centres in Europe (Abbott et al., 2019). Time constraints of staff was reported to be one of the main barriers to the implementation of screening. A recent feasibility study evaluated a screening tool 196 which was designed to overcome this barrier in neurological clinics, by using an online screening tool for anxiety and depression which was completed by parents in the clinic waiting room (Bennett et al., 2019). The positive results from this feasibility study suggests that the use of this method of screening may be useful for the assessment of anxiety and depression in children and young people with other life-limiting conditions, such as cystic fibrosis.

However, the appropriateness of psychological screening programmes for children and young people with life-limiting conditions can be questioned. The UK National Screening Committee have set a list of criteria for appraising the appropriateness and effectiveness of a screening programme (UK National Screening Committee, 2015). One of the key principles outlined is that there must be a validated screening test to use in the programme. However, the majority of screening tools for anxiety and depression have not been validated for use by children and young people with lifelimiting conditions (Thabrew et al., 2017).

Additionally, the criteria state that prior to the implementation of a screening programme it must be demonstrated that adequate facilities are available for the treatment of individuals who are identified through screening as needing psychological support. Different models of psychological care can be used to manage anxiety or depression in children and young people with life-limiting conditions. Paediatric Liaison Child and Adolescent Mental Health Services offer a model of care whereby psychological care is integrated within paediatric medical units (Garralda and Slaveska-Hollis, 2016). This allows for the combined input of paediatricians, psychologists, and psychiatrists in the management of mental health conditions, which may be necessary if the mental health condition is associated with the child or young person's specific physical condition, such as challenges adjusting to the condition or issues regarding adherence to medications (Garralda and Slaveska-Hollis, 2016). However, the availability of these services appears to be limited (Garralda and Slaveska-Hollis, 2016). Another option is the referral to generic child and adolescent mental health services. However, the limited availability of such services in the UK means that referrals can involve lengthy waiting times for children and young people with life-limiting conditions, as well as children and young people in the general population (Abbott et al., 2019, The Lancet, 2020). Therefore, the availability of treatment must be

improved, and further criteria met, such as the establishment of monitoring plans for the programme, before an effective screening programme is implemented (UK National Screening Committee, 2015).

6.5 Implications for Research

The findings from this thesis highlight several important areas for future research. As the comparative cohort study included in this thesis was the first study exploring anxiety/depression incidence in children and young people with life-limiting conditions, further longitudinal studies are needed in order to support and expand upon the findings of this thesis. Numerous electronic healthcare databases exist across Europe, such as the National Health Registries from Sweden, Finland, and Denmark (Pacurariu et al., 2018). The use of these, along with CPRD and HES data, in future studies would provide a very large sample size in which to compare the incidence of anxiety and depression by different life-limiting condition diagnoses and to more comprehensively investigate the association between ethnicity and anxiety/depression in children and young people with life-limiting conditions.

However, before further studies are conducted investigating anxiety/depression incidence using electronic healthcare data, it is important that studies are undertaken exploring variations in GP coding of anxiety/depression in children and young people. Previous research has shown that anxiety/depression is under-reported among children and young people in primary care, with some GPs being disinclined to code these conditions or not feeling that they have received adequate training to do so (Cresswell et al., 2012, De Lusignan, 2005, O'Brien et al., 2016, Sheldrick, Merchant and Perrin, 2011). Therefore, further research exploring anxiety/depression coding practices would be beneficial in order to better understand how the epidemiology of anxiety and depression in children and young people from healthcare data reflects the epidemiology beyond the healthcare setting.

Although the use of electronic healthcare data can answer many crucial questions in epidemiology, several important factors in the study of anxiety and depression epidemiology are not captured by this type of data. Some of these factors include the psychological factors shown to be associated with anxiety and depression in the general population, such as temperament (Forbes et al., 2017) and coping style (Schäfer et al., 2017), which was also found to have a protective effect on anxiety and depressive symptoms among children and young people with life-limiting conditions in the best-evidence synthesis included in this thesis. Birth cohort studies would allow for the investigation of the longitudinal association between these psychological factors and the incidence of anxiety and depression in children and young people with life-limiting conditions.

It is important, however, that anxiety/depression measurement tools are validated for use among children and young people with life-limiting conditions before being used in any future studies. In addition, as many children and young people with life-limiting conditions may also have co-occurring intellectual disabilities, further research into methods to reliably assess anxiety and depression in these children is necessary in order to understand the epidemiology of anxiety/depression across the whole population of children and young people with life-limiting conditions.

More generally, the reporting of previous studies assessing the prevalence of anxiety and depression in children and young people with life-limiting conditions missed key study details. Therefore, it is important that any future studies in this area follow the EQUATOR (Enhancing the Quality and Transparency of Health Research) guidelines in order to ensure the proper reporting of all study elements (UK EQUATOR Centre, 2021).

6.6 Conclusions

The findings from this thesis suggest that the prevalence and incidence of anxiety and depression are higher among children and young people with life-limiting conditions compared to children and young people from the general population. Additionally, the factors associated with anxiety and depression in children and young people with life-limiting conditions do not seem to differ from those associated with these mental health conditions in children and young people from the general population. These findings add support to the arguments for increased prevention and identification of mental health conditions in children and young people with life-limiting conditions. The findings also indicate that certain groups of children and young people with life-limiting such as anxiety and depression. However, further research is needed both to investigate the validity of the detection of mental health conditions among children and young people with life-limiting conditions and to explore the effect of other factors on the development of anxiety and depression in this population.

Appendix 1: 'Prevalence and Incidence of Anxiety and Depression Among Children, Adolescents, and Young Adults with Life-Limiting Conditions' (JAMA Publication – July 2019)

Research

JAMA Pediatrics | Original Investigation

Prevalence and Incidence of Anxiety and Depression Among Children, Adolescents, and Young Adults With Life-Limiting Conditions A Systematic Review and Meta-analysis

Mary M. Barker, MPH; Bryony Beresford, PhD; Martin Bland, PhD; Lorna K. Fraser, PhD

IMPORTANCE Children, adolescents, and young adults with life-limiting conditions experience various challenges that may make them more vulnerable to mental health problems, such as anxiety and depression. However, the prevalence and incidence of anxiety and depression among this population appears to be unknown.

OBJECTIVE To conduct a systematic review and meta-analysis to estimate the prevalence and/or incidence of anxiety and depression in children, adolescents, and young adults with life-limiting conditions.

DATA SOURCES Searches of MEDLINE (PubMed), PsycInfo, and Embase were conducted to identify studies published between January 2000 and January 2018.

STUDY SELECTION Studies were eligible for this review if they provided primary data of anxiety or depression prevalence and/or incidence, included participants aged 5 to 25 years with a life-limiting condition, were conducted in an Organisation for Economic Co-operation and Development country, and were available in English.

DATA EXTRACTION AND SYNTHESIS Random-effects meta-analyses were generated to provide anxiety and depression prevalence estimates. Meta-regression was conducted to analyze associations between study characteristics and each prevalence estimate.

MAIN OUTCOMES AND MEASURES Prevalence of anxiety and depression.

RESULTS A total of 14 866 nonduplicate articles were screened, of which 37 were included in the review. Of these, 19 studies reported anxiety prevalence, and 36 studies reported depression prevalence. The mean (range) age of participants was 15.4 (6-25) years. The meta-analysis of anxiety prevalence (n = 4547 participants) generated a pooled prevalence estimate of 19.1% (95% Cl, 14.1%-24.6%). Meta-regression analysis found statistically significant differences in anxiety prevalence by assessment tool; diagnostic interviews were associated with higher anxiety prevalence (28.5% [95% Cl, 13.2%-46.8%]) than self-reported or parent-reported measures (14.9% [95% Cl, 10.9%-19.4%]). The depression meta-analysis (n = 5934 participants) found a pooled prevalence estimate of 14.3% (95% Cl, 10.5%-18.6%). Meta-regression analysis revealed statistically significant differences in depression prevalence by the mean age of the sample (β = 0.02 [95% Cl, 0.01-0.03]; *P* = .001).

CONCLUSIONS AND RELEVANCE In this systematic review and meta-analysis, the prevalence of anxiety and depression among children, adolescents, and young adults with life-limiting conditions was high, highlighting the need for increased psychological assessment and monitoring. Further research is required to determine the prevalence and incidence of anxiety and depression in a larger sample of children, adolescents, and young adults with a broader range of life-limiting conditions.

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Editorial
 Supplemental content

ental health problems among young people are a growing public health concern, affecting between 10% and 20% of children and adolescents worldwide.¹ National surveys in the United States have found that 3% of children and adolescents have a diagnosis of anxiety, while depression prevalence ranged from 2.1% to 8.1%.² Furthermore, for three-quarters of adults with long-term mental health problems, onset occurred before age 24 years.³

Growing research of children, adolescents, and young adults suggests a strong link between chronic physical illness and mental health problems.⁴⁻⁶ Some chronic conditions are life limiting. These include conditions for which there is no cure that cause death, either directly (eg, Batten disease, Duchenne muscular dystrophy) or through secondary health difficulties associated with the condition (eg, severe cerebral palsy), and those for which curative treatment is possible but may result in failure (eg, cancer, organ failure).⁷ After diagnosis of a life-limiting condition (LLC), children, adolescents, and young adults may encounter multiple disease-associated challenges, which, coupled with the stressors associated with the period of adolescence, such as puberty and the desire to become independent from one's parents, makes navigating daily life a potentially challenging endeavor.^{8,9} For example, regular clinic appointments and hospitalizations can result in children and young people missing school, therefore potentially disrupting both their education and peer relationships.¹⁰ These challenges can be exacerbated by physical symptoms resulting from the LLC itself or associated treatment regimens, either through adverse effects, such as fatigue caused by medication, or direct biochemical changes, which have been proposed to be linked to the onset of depression in some patients.^{11,12} Children, adolescents, and young adults with LLCs may also have fears surrounding the unpredictability of their future, including the fear of death, which often make patients unsure if they will be able to achieve future hopes and aspirations.13

The prevalence of LLCs in England rose from 25 per 10 000 in 2000 and 2001 to 32 per 10 000 in 2009 and 2010, with the largest increase in prevalence occurring in young people aged between 16 and 19 years, which likely represents an increase in survival.¹⁴ Because chronic physical illness has been found to be associated with an increased risk of mental health problems, the increased prevalence of LLCs among children and young people necessitates the development of services aimed at caring for their psychological needs. This has been recognized in England and Wales by the National Institute for Health and Care Excellence 2016 guidelines regarding end-of-life care for infants, children, and young people with LLCs, which highlight the need for research into the range, severity, and context of psychological difficulties among children and young people with LLCs for the subsequent design of effective interventions.15 Therefore, it is crucial that research analyzing the epidemiology of anxiety and depression is systematically reviewed to guide future research and clinical guidance. Consequently, this systematic review and metaanalysis aims to estimate the prevalence and incidence of anxiety and depression in children and young people (aged 5-25 years) with a range of LLCs.

Key Points

Question What is the prevalence and/or incidence of anxiety and depression in children, adolescents, and young adults with life-limiting conditions?

Findings In this systematic review and meta-analysis, the pooled prevalence of anxiety in 19 studies was 19.1%, with significant differences in prevalence according to the type of assessment tool used; in a meta-analysis of 36 studies, depression prevalence was 14.3% and was associated with increasing age. No studies included information on incidence of anxiety or depression.

Meaning The high prevalence of anxiety and depression in children, adolescents, and young adults with life-limiting conditions highlights the need for improved services to address their psychological needs.

Methods

Search Strategy

The systematic review and meta-analysis was conducted according to a review protocol registered on PROSPERO prior to review initiation (identifier: CRD42018088795). Embase, MEDLINE (PubMed), and PsycInfo were searched on January 15, 2018, to identify articles published from January 1, 2000, onward. The search was conducted using both subject headings and free text with the various combinations of the terms *children, adolescents, young adults, anxiety, depression,* and terms for specific life-limiting conditions, including a full list of all LLC diagnoses (eTable 1 in the Supplement for MEDLINE search strategy).¹⁶ Reference lists of identified systematic reviews and all included articles were searched for additional eligible papers. The gray literature was reviewed using an advanced Google search, with the first 50 PDFs obtained screened for eligibility.

Studies were included if (1) they provided primary data of anxiety or depression prevalence or incidence measured using validated assessment tools or coded medical report data, (2) participants were between the ages of 5 and 25 years, (3) participants had been diagnosed with a LLC, (4) the study was published in English or subsequently translated into English, and (5) the study was conducted in a country within the Organisation for Economic Co-operation and Development. The following types of study designs were excluded: (1) case studies, case series, intervention studies, qualitative studies, systematic reviews, and abstracts; (2) studies that included non-LLC diagnoses and did not report data of non-LLC and LLC subgroups separately; and (3) studies of participants successfully treated for cancer.

Study Selection

Titles and abstracts of all studies were screened by the primary reviewer (M.M.B.), with 20% also independently screened by a second reviewer (a nonauthor). Any discrepancies were resolved through discussion. Full texts of all studies deemed potentially eligible were retrieved and reviewed for eligibility by the first reviewer (M.M.B.), with the second

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reviewer also independently reviewing 20%. For articles in which key data were missing, study authors were contacted. In the case that authors did not reply to this request, the article was not included. Studies investigating the prevalence of anxiety or depression among children and young people with DiGeorge syndrome were excluded at this stage because mental health problems are a component of this condition.

Data Extraction

Data were extracted by 1 reviewer (M.M.B.), using an extraction form piloted on 3 eligible studies. Key study characteristics including country of study, study design, recruitment and eligibility criteria, anxiety and depression assessment tool (s), age, and sex were extracted. The number of participants identified by the study as being anxious or depressed was recorded along with the study sample size for the calculation of prevalence. For the calculation of incidence, the number of new cases identified and the person-time used was extracted.

Risk of Bias Assessment

In response to the fact that included studies only reported prevalence, the protocol was amended to use a tool specifically designed to assess bias in prevalence studies.¹⁷The chosen tool consists of 10 questions, which are scored positively or negatively, and according to the total score, each study was characterized as being at low, moderate, or high risk of bias. Any studies deemed to be at high risk of bias were excluded from the meta-analysis.

Statistical Analysis

Stata version 15.1 (StataCorp) was used to generate metaanalyses for anxiety and depression prevalence. Randomeffects meta-analyses were used owing to the high expected heterogeneity between studies. To stabilize variances, study data were first transformed using the double arcsine transformation.¹⁸ Study-specific 95% CIs were generated using the exact method. Heterogeneity was analyzed using the I² statistic. Heterogeneity was first explored through subgroup analysis, using the following categorical study characteristics: (1) LLC diagnostic group (cancer, cystic fibrosis, HIV, thalassemia, neurological conditions, or chronic kidney disease); (2) study location (Europe or the United States); (3) assessment tool (self-report or parent-report questionnaire or diagnostic interview); and (4) risk of bias (low or moderate). Univariate meta-regression models were then conducted to assess the association between study characteristics and the pooled prevalence estimate. Models were generated for each of the aforementioned categorical study characteristics, in addition to the following quantitative study characteristics: sample size, mean age, and percentage of female participants in the sample.

Publication bias was assessed using funnel plots and the Egger test of bias. A significance level of P < .05 was used throughout.

Results

The electronic search identified 14 866 nonduplicate articles, as shown in the Preferred Reporting Items for Systematic

Reviews and Meta-Analyses flow diagram (**Figure 1**). The full texts of 709 articles were retrieved and assessed for eligibility, resulting in the inclusion of 37 studies.^{11,19-54} Of the included articles, 19 studies^{11,19,22,26,27,29-33,36,39,41-45,48,54} reported anxiety prevalence, and 36 studies^{11,19-47,49-54} reported depression prevalence. None reported the incidence of anxiety or depression.

Study Characteristics

The key characteristics of the 37 included studies are summarized in the **Table**. In total, 6042 participants were included. Study sample sizes ranged from 20 to 2032 participants, with a median of 50 (interquartile range [IQR], 38-96) participants. The age range of participants was reported in 30 studies, ^{11,19-25,27,28,31,33-40,42-49,51-53} and these ranged from 6 to 25 years overall. The mean (SD) participant age from the 24 studies providing this information was 15.4 (3.2) years. The proportion of female participants in the study sample was reported in 32 studies, ^{11,19-34,36-38,40,41,43-47,49,51-54} with a total of 2432 female participants among 5403 participants (a mean of 45.0%).

A total of 18 studies^{22,24,27,28,30,31,34-41,50-52,54} (49%) were from the United States, and 15 studies^{11,19,21,23,26,29,33,43-49,53} (41%) were from Europe. In addition, 1 study²⁰ was from Canada, 1 study²⁵ was from Mexico, and 2 studies (5%) were multinational (1 in European countries and the United States³² and 1 in European countries only⁴²).

Of the 37 included studies, 6 studies^{11,21-25} (16%) assessed children, adolescents, and young adults with cancer (n = 394), 8 studies²⁶⁻³³ (22%) included children, adolescents, and young adults with cystic fibrosis (n = 1628), and a further 9 studies^{34-41,54} (24%) assessed children, adolescents, and young adults with HIV (n = 3138). Children, adolescents, and young adults with thalassemia were included in 4 studies⁴²⁻⁴⁵ (11%; n = 120), while 7 studies^{19,20,46-50} (19%; n = 342) assessed children, adolescents, and young adults with neurological conditions, and 3 studies⁵¹⁻⁵³ (8%; n = 420) included children, adolescents, and young adults with chronic kidney disease.

Risk of Bias Assessment

No studies were deemed to be at high risk of bias, 14 studies^{19,20,23·25,27,34,43·46,49·51} (38%) were at moderate risk of bias, and 23 studies^{11,21,22,26,28·33,35·42,47,48,52·54} (62%) were at low risk of bias. Only 1 study¹¹ scored positively on the question regarding minimizing the likelihood of nonresponse bias (eTable 2 in the Supplement).

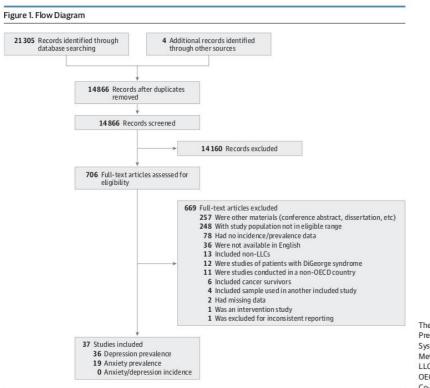
Anxiety and Depression Assessment Tools

A total of 10 different assessment tools were used to measure the prevalence of anxiety, while 15 different assessment tools were used to assess depression prevalence (eTable 3 in the Supplement). The most common assessment tool for measuring anxiety was the anxiety subscale of the Hospital Anxiety and Depression Scale, which was used in 7 studies^{11,26,29-33} of the 19 studies in this group (37%), whereas the Children's Depression Inventory was the most common depression assessment tool, having been used in 9 studies^{21,23,25,28,46,47,51-53} of the 36 in this group (25%). Parent-report measures were used in 3 studies.^{19,20,54}

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The flow diagram adheres to the Preferred Reporting Items for Systematic Reviews and Meta-Analyses standard. LLC indicates life-limiting conditions; OECD, Organisation for Economic Co-operation and Development.

Prevalence of Anxiety

The prevalence of anxiety was reported in 19 studies, ^{11,19,22,26,27,29-33,36,39,41-45,48,54} with a total of 4547 participants. Anxiety prevalence ranged from 3.6% (95% CI, 0.4%-12.5%) to 58.3% (95% CI, 36.6%-77.9%). The pooled anxiety prevalence estimate from the random-effects meta-analysis was 19.1% (95% CI, 14.1%-24.6%). The level of heterogeneity in the analysis was high (I^2 = 92.2%; *P* < .001) (**Figure 2**). Although visual inspection of the funnel plot asymmetry suggests the presence of publication bias, with fewer small studies reporting high anxiety prevalence, this was not found to be significant by the Egger test of bias (eFigure 1 in the Supplement).

Subgroup analysis revealed differences in anxiety prevalence by diagnostic group (Figure 2). Children, adolescents, and young adults with thalassemia were reported to have the highest pooled anxiety prevalence estimate (29.4% [95% CI, 8.8%-55.3%]), followed by children, adolescents, and young adults with cystic fibrosis (22.8% [95% CI, 17.1%-29.1%]). The lowest pooled anxiety prevalence estimate was found for children, adolescents, and young adults with neurological conditions (8.7% [95% CI, 4.4%-14.3%]). Pooled anxiety prevalence was also found to differ by study location; studies conducted in the United States were found to report a higher prevalence (20.8% [95% CI, 11.3%-32.1%]) than studies conducted in Europe (17.2% [95% CI, 9.9%-26.0%]). Differences in pooled anxiety prevalence were also found by assessment tool, with a lower prevalence reported from studies using self-report or parentreport questionnaires (14.9% [95% CI, 10.9%-19.4%]) compared with studies using diagnostic interviews (28.5% [95% CI, 13.2%-46.8%]). Finally, prevalence varied by the risk of bias; studies at moderate risk of bias reported a higher prevalence (23.1% [95% CI, 7.8%-43.0%]) compared with studies at low risk of bias (18.2% [95% CI, 12.8%-24.3%]) (eTable 4 in the Supplement). However, meta-regression analysis showed that only the differences by assessment tool were statistically significant ($\beta = 0.15$ [95% CI, 0.01-0.30]; P = 0.04). Prevalence was not significantly associated with sample size, mean age, or percentage of females in the sample (eTable 5 in the Supplement).

Prevalence of Depression

The prevalence of depression was reported in 36 studies, ^{11,19–47,49–54} with a total of 5934 participants. Depression prevalence ranged from 0.0% (95% CI, 0.0%-0.7%) to 50.0% (95% CI, 34.9%-65.1%). The pooled depression prevalence estimate from the random-effects meta-analysis was 14.3% (95% CI, 10.5%-18.6%). Substantial heterogeneity was found in the analysis ($I^2 = 93.3\%$; P < .001) (Figure 2). Although visual inspection of the funnel plot for the depression meta-analysis suggested some publication bias owing to a lack of published studies with large standard errors that report high depression prevalence, this was not found to be statistically significant by the Egger test of bias (eFigure 2 in the Supplement).

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Table. Key Characteristics of the 37 Included Studies

| Source | Location | Total Partici- pants | Age, Mean (SD) [Range], y | No. of Female Participants/ No. of Total Participants (%) | Year of Data Collection | Anxiety Prevalence Reported | Depression Prevalence Reported | Risk of Bias |
|---|--|----------------------------|---------------------------------|--|-------------------------------|-----------------------------------|--------------------------------------|-----------------|
| Cancer | Location | pants | [Kalige], y | Participants (%) | conection | Reported | Reported | UT DId5 |
| ledström et al, ¹¹ 005 | Sweden | 56 | NR (NR) [13-19] | 24/56 (43) | 1999-2003 | Yes | Yes | Low |
| Aatziou et al, ²¹ 2008 | Greece | 80 | 11.2 (NR) [6-16] | 35/80 (44) | 2002-2005 | No | Yes | Low |
| ersun et al, ²² 2009 | United States | 41 | 15.2 (2.2) [12-19] | 18/41 (44) | NR | Yes | Yes | Low |
| Ourualp and Altay, ²³ | Turkey | 20 | NR (NR) [6-12] | 10/20 (50) | 2010-2011 | No | Yes | Moderat |
| emis et al, ²⁴ 2015 | United States | 151 | 13.5 (2.4) [10-17] | 77/151 (51) | NR | No | Yes | Moderate |
| Rivas-Molina et al, ²⁵ 2015 | Mexico | 46 | NR (NR) [7-15] | 14/46 (30) | 2012 | No | Yes | Moderat |
| ystic Fibrosis | | | | | | | | |
| Casier et al, ²⁶ 2008 | Belgium | 34 | 17.3 (3.1) [NR] | 18/34 (53) | NR | Yes | Yes | Low |
| Vhite et al, ²⁷ 2009 | United States | 53 | 12.4 (2.6) [9-17] | 31/53 (58) | 1995-1996 | Yes | Yes | Moderat |
| mith et al, ²⁸ 2010 | United States | 39 | 12.0 (3.1) [7-17] | 20/39 (51) | NR | No | Yes | Low |
| Casier et al, ²⁹ 2011 | Belgium | 40 | 18.4 (2.9) [NR] | 17/40 (43) | NR | Yes | Yes | Low |
| Modi et al, ³⁰ 2011 | United States | 59 | 15.8 (2.5) [NR] | 27/59 (46) | 2006-2008 | Yes | Yes | Low |
| Dliver et al, ³¹ 2014 | United States | 72 | 19.1 (3.3) [14-25] | 36/72 (50) | 2010-2011 | Yes | Yes | Low |
| Quittner et al, ³² 2014 | Multinational (Europe and United States) | 1286 | 14.8 (1.7) [NR] | 669/1286 (52) | NR | Yes | Yes | Low |
| Askew et al, ³³ 2017 | United Kingdom | 45 | 20.7 (NR) [17-24] | 18/45 (40) | NR | Yes | Yes | Low |
| HIV | | | | | | | | |
| 2ao et al, ³⁴ 2000 | United States | 34 | 18.5 (NR) [16-21] | 27/34 (79) | NR | No | Yes | Moderat |
| Aurphy et al, ³⁵ 2001 | United States | 213 | NR (NR) [12-18] | NR | 1999-2000 | No | Yes | Low |
| lliott-DeSorbo et al, ³⁶ 2009 | United States | 55 | 12.9 (NR) [8-17] | 25/55 (45) | 2001-2005 | Yes | Yes | Low |
| Mellins et al, ⁵⁴ 2009 | United States | 206 | 12.3 (2.2) [NR] | 105/206 (51) | NR | Yes | Yes | Low |
| Andrinopoulos et al, ³⁷ 2011 | United States | 166 | NR (NR) [15-24] | 166/166 (100) | 2003-2005 | No | Yes | Low |
| Martinez et al, ³⁸ 2012 | United States | 60 | 20.6 (2.0) [15-24] | 60/60 (100) | 2003-2005 | No | Yes | Low |
| Vachman et al, ³⁹ 2012 | United States | 313 | NR (NR) [6-17] | NR | 2007 | Yes | Yes | Low |
| Salama et al, ⁴⁰ 2013 | United States | 59 | 18.8 (NR) [14-23] | 36/59 (61) | 2002-2003 | No | Yes | Low |
| Brown et al, ⁴¹ 2015 | United States | 2032 | 20.3 (NR) (2.1) | 662/2032 (33) | 2009-2012 | Yes | Yes | Low |
| Thalassemia | | | | | | | | |
| Clemente et al, ⁴² 2002 | Multinational (Europe) | 38 | NR (NR) [6-18] | NR | 1994-1996 | Yes | Yes | Low |
| Aydinok et al, ⁴³ 2005 | Turkey | 38 | 12.2 (3.3) [6-18] | 20/38 (53) | NR | Yes | Yes | Moderat |
| Cakaloz et al, ⁴⁴ 2009 | Turkey | 20 | 11.1 (3.0) [7-18] | 13/20 (65) | NR | Yes | Yes | Moderat |
| Adanir et al, ⁴⁵ 2017 | Turkey | 24 | 13.6 (2.1) [12-18] | 11/24 (46) | NR | Yes | Yes | Moderat |
| Neurological Conditio | | | | | | | | |
| aufersweiler-Plass et al, ¹⁹ 2003 | Germany | 96 | 11.2 (NR) [6-18] | 49/96 (51) | NR | Yes | Yes | Moderat |
| läckman et al, ⁴⁶ 1005 | Finland | 27 | NR (NR) [9-21] | 14/27 (52) | NR | No | Yes | Moderat |
| Amato et al,47 2008 | Italy | 63 | 15.3 (2.5) [8-17] | 33/63 (52) | NR | No | Yes | Low |
| Amato et al,48 2010 | Italy | 39 | NR (NR) [12-20] | NR | NR | Yes | No | Low |
| Fill et al, ²⁰ 2012 | Canada | 31 | 16.1 (NR) [12-19] | 23/31 (74) | NR | No | Yes | Moderat |
| Isenbruch et al, ⁴⁹ 2013 | Germany | 50 | 15.4 (0.6) [8-23] | 0/50 | 2009-2011 | No | Yes | Moderat |
| Parrish et al, ⁵⁰ 2013 | United States | 36 | NR (NR) [NR] | NR | NR | No | Yes | Moderat |

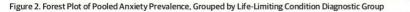
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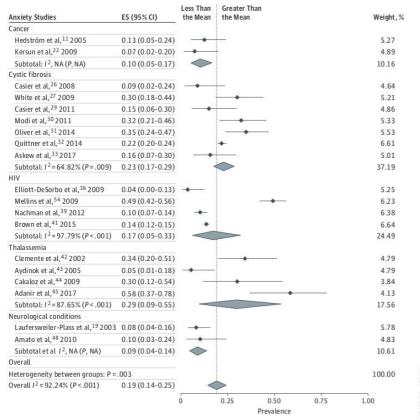
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Prevalence of Anxiety and Depression in Children, Adolescents, and Young Adults With Life-Limiting Conditions

| Source | Location | Total Partici- pants | Age, Mean (SD) [Range], y | No. of Female Participants/ No. of Total Participants (%) | Year of Data Collection | Anxiety Prevalence Reported | Depression Prevalence Reported | Risk of Bias |
|--|---------------|----------------------------|---------------------------------|--|-------------------------------|-----------------------------------|--------------------------------------|-----------------|
| Chronic Kidney Disea | se | | | | | | | |
| Kogon et al, ⁵¹ 2013 | United States | 44 | NR (NR) [7-18] | 13/44 (30) | 2011-2012 | No | Yes | Moderate |
| Kogon et al, ⁵² 2016 | United States | 344 | NR (NR) [6-17] | 142/344 (41) | 2005-2008 | No | Yes | Low |
| Kilicoglu et al, ⁵³ 2016 | Turkey | 32 | NR (NR) [8-18] | 19/32 (59) | 2014 | No | Yes | Low |





Forest plot of 19 studies included in the meta-analysis of anxiety prevalence. The pooled anxiety prevalence from the meta-analysis was 19.1% (95% Cl, 14.1%-24.6%). Es indicates effect size (prevalence).

Subgroup analysis found that the pooled prevalence of depression differed by diagnostic group. Children, adolescents, and young adults with HIV reported the highest pooled depression prevalence (24.2% [95% CI, 15.4%-34.2%]), while those with neurological conditions had the lowest prevalence (7.0% [95% CI, 1.7%-15.0%]). Studies in the United States reported higher depression prevalence (18.8% [95% CI, 12.6%-25.8%]) compared with studies in Europe (9.5% [95% CI, 5.0%-15.1%]) (**Figure 3**). Differences in pooled depression prevalence were also found by assessment tool; studies that used self-reported or parent-reported measures had a higher pooled

prevalence (15.4% [95% CI, 11.0%-20.4%]) than studies using diagnostic interviews (10.5% [95% CI, 4.0%-19.3%]). Variations in depression prevalence according to the risk of bias assigned to the study were very small; studies at moderate risk of bias reported a slightly higher prevalence (14.8% [95% CI, 6.7%-25.0%]) than studies at low risk of bias (14.2% [95% CI, 9.7%-19.4%]) (eTable 6 in the Supplement). Metaregression analysis found only the mean age of the sample population (β = 0.02 [95% CI, 0.01-0.03]; *P* = .001) to be significantly associated with pooled depression prevalence (eTable 7 in the Supplement).

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Figure 3. Forest Plot of Pooled Depression Prevalence, Grouped by Life-Limiting Condition Diagnostic Group

| Depression Studies | ES (95% CI) | Less Than the Mean | Greater Than the Mean | | Weight, % | |
|--|--------------------|-----------------------|--------------------------|------|-----------|-------------------------------|
| Cancer | | | | | | |
| Hedström et al, ¹¹ 2005 | 0.21 (0.12-0.34) | - | • | | 2.82 | |
| Matziou et al, ²¹ 2008 | 0.01 (0.00-0.07) | + | | | 2.95 | |
| Kersun et al, ²² 2009 | 0.05 (0.01-0.17) | - | | | 2.67 | |
| Durualp & Altay, ²³ 2012 | 0.10 (0.01-0.32) | -+ | | | 2.23 | |
| Bemis et al, ²⁴ 2015 | 0.36 (0.18-0.58) | | | | 2.38 | |
| Rivas-Molina et al, ²⁵ 2015 | 0.50 (0.35-0.65) | | | - | 2.73 | |
| Subtotal 12=92.00% (P<.001) | 0.17 (0.04-0.37) | | | | 15.78 | |
| Cystic fibrosis | | | | | | |
| Casier et al, ²⁶ 2008 | 0.09 (0.03-0.21) | -+ | | | 2.72 | |
| White et al, ²⁷ 2009 | 0.02 (0.00-0.10) | + | | | 2.80 | |
| Smith et al, ²⁸ 2010 | 0.28 (0.15-0.45) | | • | | 2.65 | |
| Casier et al, ²⁹ 2011 | 0.03 (0.00-0.13) | + | | | 2.66 | |
| Modi et al, ³⁰ 2011 | 0.03 (0.00-0.12) | - | | | 2.84 | |
| Oliver et al, ³¹ 2014 | 0.15 (0.08-0.26) | _ | • | | 2.92 | |
| Quittner et al, 32 2014 | 0.10 (0.09-0.12) | + | | | 3.30 | |
| Askew et al, ³³ 2017 | 0.07 (0.01-0.18) | -+ | | | 2.72 | |
| Subtotal: 1 ² =69.89% (P=.002) HIV | 0.08 (0.05-0.13) | | | | 22.60 | |
| Pao et al, ³⁴ 2000 | 0.44 (0.27-0.62) | | • | | 2.57 | |
| Murphy et al, 35 2001 | 0.49 (0.43-0.54) | | | | 3.22 | |
| Elliot-DeSorbo et al, 36 2009 | 0.04 (0.00-0.13) | + | | | 2.81 | |
| Mellins et al, ⁵⁴ 2009 | 0.07 (0.04-0.12) | -+- | | | 3.17 | |
| Andrinopoulos et al, 37 2011 | 0.31 (0.24-0.39) | | | | 3.14 | |
| Martinez et al, ³⁸ 2012 | 0.43 (0.31-0.57) | | | | 2.85 | |
| Nachman et al, ³⁹ 2012 | 0.14 (0.11-0.19) | _ | _ | | 3.22 | |
| Salama et al, ⁴⁰ 2013 | 0.24 (0.14-0.37) | | • • · · · · | | 2.84 | |
| Brown et al, ⁴¹ 2015 | 0.21 (0.19-0.22) | | + | | 3.31 | |
| Subtotal: 12 = 95.95% (P<.001) | 0.24 (0.15-0.34) | | \sim | | 27.13 | |
| Thalassemia | | | | | | |
| Clemente et al, 42 2002 | 0.18 (0.08-0.34) | _ | • | | 2.63 | |
| Aydinok et al, ⁴³ 2005 | 0.13 (0.04-0.28) | | | | 2.63 | |
| Cakaloz et al, ⁴⁴ 2009 | 0.15 (0.03-0.38) | | • | | 2.23 | |
| Adanir et al, ⁴⁵ 2017 | 0.04 (0.00-0.21) | -+ | | | 2.35 | |
| Subtotal: 12=00.00 (P=.43) | 0.13 (0.07-0.20) | < | > | | 9.84 | |
| Neurological conditions | | | | | | |
| Laufersweiler-Plass et al, 19 200 | 3 0.02 (0.00-0.07) | + | | | 3.01 | |
| Bäckman et al, ⁴⁶ 2005 | 0.19 (0.06-0.38) | | • | | 2.43 | |
| Amato et al, ⁴⁷ 2008 | 0.06 (0.02-0.16) | -+ | | | 2.87 | |
| Till et al, ²⁰ 2012 | 0.17 (0.06-0.36) | | • | | 2.48 | |
| Elsenbruch et al, ⁴⁹ 2013 | 0.00 (0.00-0.07) | + | _ | | 2.77 | |
| Parrish et al, ⁵⁰ 2013 | 0.14 (0.05-0.30) | | | | 2.60 | |
| Subtotal: /2=77.21% (P=.001) | | 0 | | | 16.16 | |
| Chronic kidney disease | | | | | | |
| Kogon et al, ⁵¹ 2013 | 0.23 (0.12-0.38) | _ | • | | 2.71 | |
| Kogon et al, ⁵² 2016 | 0.05 (0.03-0.08) | + | | | 3.23 | |
| Kilicogliu et al, ⁵³ 2016 | 0.28 (0.14-0.47) | | | | 2.54 | |
| Subtotal: 12, NA (P, NA) | 0.16 (0.03-0.37) | _ | | | 8.48 | |
| Overall | | | | | | |
| Heterogeneity between groups: P | =.03 | | | | 100.00 | Forest plot o |
| Overall: 1 ² = 93.33 (P < .001) | 0.14 (0.11-0.19) | < | <u> </u> | | | in the meta- prevalence. |
| | | Ó | 0.25 0.50 Prevalence | 0.75 | 1.00 | prevalence fi was 14.3% (9 |

Forest plot of the 36 studies included in the meta-analysis of depression prevalence. The pooled depression prevalence from the meta-analysis was 14.3% (95% CI, 10.5%-18.6%). ES indicates effect size (prevalence).

Discussion

Key Findings

When compared with available data from the general population, this meta-analysis of 37 studies indicates a higher preva-

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lence of anxiety and depression in children, adolescents, and young adults with LLCs compared with the general population. The pooled anxiety prevalence estimate of 19.1% observed in this analysis is more than 6 times higher than the prevalence of anxiety among the general population of young people in the United States, 3%, and more than double the

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anxiety prevalence of children and young people in the United Kingdom, 7.2%.^{2,55} The observed prevalence of depression among children, adolescents, and young adults with LLCs was 14.3%, which was also higher than the range of depression prevalence estimates found for young people in the United States and the United Kingdom (2.1%-8.1%).^{2,55}

Interestingly, the prevalence of anxiety and depression was found to vary by LLC diagnostic group. The highest pooled anxiety prevalence estimate (29.4%) was found for children, adolescents, and young adults with thalassemia, whereas those with HIV reported the highest pooled prevalence of depression (24.2%). Overall, these findings support the literature describing the challenges of living with a LLC and highlight the fact that recognition of and provision for psychological needs should be a core aspect of the care and support offered to this population.^{8,56}

It was also observed that anxiety and depression prevalence estimates were modified by the type of assessment tool used, with diagnostic interviews resulting in higher anxiety prevalence. Differences in anxiety prevalence by the type of assessment tool used have been shown in previous studiesfor example, a systematic review of anxiety prevalence in children and adolescents with autistic spectrum disorders.⁵⁷ Conversely, higher depression prevalence was associated with the use of self-report or parent-report questionnaires, a finding previously reported by a systematic review of the prevalence of depression among adults with chronic kidney disease.58 These findings may be partially accounted for by the diagnostic groups studied. For example, more than half of the studies using diagnostic interviews concerned children, adolescents, and young adults with thalassemia, and the pooled anxiety prevalence for this group was very high, whereas in the case of depression, the highest pooled prevalence was found for HIV studies, most of which used selfreported or parent-reported measures.

Finally, age was identified by the meta-regression analysis to be significantly associated with depression prevalence. This trend is consistent to that found among young people with anxiety or depression both in the United States and the United Kingdom.^{2,55} Although sex was not found to be associated with depression prevalence, and neither sex nor age were associated with anxiety prevalence, these findings should be treated with particular caution, given that many studies could not be included in the meta-regression model owing to lack of reporting of age and sex data.

Strengths

This review has a number of strengths. First, this is the first systematic review and meta-analysis of anxiety and depression prevalence among children, adolescents, and young adults with LLCs to have been conducted. Given that there are increasing numbers of children, adolescents, and young adults living with LLCs, and recent calls have been made to recognize and address the mental health needs of this population, a comprehensive picture of existing evidence of the prevalence of depression and anxiety across this population is extremely valuable. Second, the comprehensive search strategy used in this review resulted in the inclusion of a total of

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37 studies in the meta-analyses from more than 10 countries covering 5 LLC diagnostic groups. This improves the robustness of the pooled prevalence estimates, offering a more accurate description of the epidemiology of anxiety and depression in this patient group than is afforded by single studies.

Limitations

However, weaknesses in the review methodology must be noted. First, only studies written in English were eligible for inclusion, limiting the generalizability of the prevalence estimates. This review is also limited by the available data set. As such, the coverage of LLCs is far from exhaustive. Importantly, of the 6042 participants included in the review, only 342 (5.7%) had neurological conditions, yet more than 8% of children and adolescents with a LLC in England have a neurological diagnosis.¹⁴ Importantly, intellectual disability, which brings an increased risk of mental health problems, is a common comorbidity among this group.⁵⁹ However, the identification of mental health problems or emotional distress in young people with intellectual disability can be complex owing to communication limitations.⁶⁰ While greater efforts should be made to improve accessibility and suitability of self-reported or parent-reported measures, for some individuals, the detection of emotional distress will rely on methods such as the interpretation of nonverbal behaviors, utterances, and physiological responses.⁶⁰

There are also some broader limitations in terms of the characteristics of the included studies. First, many studies had very small sample sizes. When combined with the relatively narrow range of LLCs represented, this limits the ability of any analysis to produce results that are representative of the population. Additionally, this makes it more difficult to compare results with general population data. Second, there was poor reporting of key study data, such as the age and sex of study participants. For example, only 15 of the included studies (79%) reporting anxiety prevalence and 24 of the studies (67%) reporting depression prevalence provided the mean age of the sample. This greatly reduced the number of studies that could be included in the meta-regression models. Finally, because no studies reported longitudinal data, the incidence of anxiety and depression in children, adolescents, and young adults with LLCs could not be assessed.

Conclusions

Despite these limitations, the findings have a number of key implications. Importantly, they support the argument for routine screening for mental health problems as part of the development of psychosocial standards of care.⁶¹ This would both assist the systematic identification of patients at risk of mental health problems and the instigation of preventive steps and identify those needing support and treatment. Data from routine screening would also be valuable evidence for those making the case for increasing the resources available for mental health and psychosocial care provision within their services.

There has already been some progress on this issue. For example, annual screening for mental health problems in

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patients with cystic fibrosis was recommended in the European consensus on standards of care.⁶² However, for this to be performed effectively, screening tools must first be validated in children, adolescents, and young adults with LLCs, because currently most of the anxiety and depression measurement tools have only been validated in the general population.⁶³

In addition to work on the psychometric properties of screening instruments, 2 further areas of research are required. First, more large-scale studies are needed, including on a broader range of LLCs, to consolidate existing evidence and further understand differences in the prevalence of mental health problems between different LLCs. For the effects of age and sex to be adequately assessed in future studies, results should be reported by sex and age group. Second, longitudinal studies are required to develop the understanding of the temporal associations between the diagnosis of a LLC, its trajectory, and the onset of mental health problems, while also allowing for an exploration of factors which increase the risk of anxiety or depression onset.

Anxiety and depression are common mental health problems among children, adolescents, and young adults with LLCs, calling for the implementation of routine screening to identify both those at risk of mental health problems and those requiring treatment. However, to further understand the epidemiology of anxiety and depression in this patient population, larger longitudinal studies must be conducted in a wider range of LLCs, including on children with neurological conditions and cognitive impairment.

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Appendix 2: Medline Search Strategy

| Number | Searches | Results |
|--------|---|---------|
| 1 | exp Child/ | 1906328 |
| 2 | exp Infant/ | 1145037 |
| 3 | Adolescent/ | 2013002 |
| 4 | (child\$ or infant\$ or newborn\$ or new-born\$ or neonat\$ or neo-nat\$ or baby\$ or babies or pediat\$ or paediat\$ or schoolchild\$ or preschool\$).ti,ab,kf. | 1864634 |
| 5 | (adolescen\$ or juvenile\$ or youth\$ or teenage\$ or youngster\$).ti,ab,kf. | 354040 |
| 6 | (young people\$ or young person\$).ti,ab,kf. | 24417 |
| 7 | Anxiety/ or Anxiety Disorders/ | 102887 |
| 8 | (anxiet\$ or anxious\$).ti,ab,kf. | 155886 |
| 9 | depression.mp. or Depression/ | 342148 |
| 10 | depress*.ti,ab,kf. | 391881 |
| 11 | Depressive Disorder/ | 73018 |
| 12 | depressive disorder\$.ti,ab,kf. | 28428 |
| 13 | 7 or 8 or 9 or 10 or 11 or 12 | 560066 |
| 14 | Creutzfeldt-Jakob Syndrome/ | 6863 |
| 15 | (creutzfeldt-jakob\$ or jakob-creutzfeldt\$ or cjd or spongiform encephalopath\$).ti,ab,kf. | 10431 |
| 16 | Subacute Sclerosing Panencephalitis/ | 2454 |
| 17 | (subacute sclerosing panencephalit\$ or sub-acute sclerosing panencephalit\$ or sspe or subacute sclerosing leukoencephalit\$ or sub-acute sclerosing leukoencephalit\$ or van bogaert\$ leukoencephalit\$ or measles inclusion body encephalit\$ or mibe).ti,ab,kf. | 2444 |
| 18 | beta-Thalassemia/ | 8572 |
| 19 | (beta adj (thalass?emi\$ or thalas?emi\$)).ti,ab,kf. | 9706 |
| 20 | ((thalass?emi\$ or thalas?emi\$) adj major).ti,ab,kf. | 4070 |
| 21 | exp Anemia, Aplastic/ | 17020 |
| 22 | ((hypoplastic or aplastic) adj an?emi\$).ti,ab,kf. | 9885 |
| 23 | (medullary adj3 hypoplas\$).ti,ab,kf. | 51 |
| 24 | exp Neutropenia/ | 19229 |
| 25 | ((severe or chronic\$) adj3 neutropeni\$).ti,ab,kf. | 3376 |
| 26 | immunologic deficiency syndromes/ or acquired immunodeficiency syndrome/ | 94764 |
| 27 | (immun\$ deficiency adj (syndrome\$ or disease\$ or disorder\$)).ti,ab,kf. | 6406 |
| 28 | (immunodeficiency adj (syndrome\$ or disease\$ or disorder\$)).ti,ab,kf. | 23881 |
| 29 | DiGeorge Syndrome/ | 2083 |
| 30 | (digeorge\$ or di george\$ or sedlackova\$ or opitz g-bbb or velocardiofacial or velo-cardiofacial or velo-cardio-facial or shprintzen\$ or ctaf).ti,ab,kf. | 2473 |
| 31 | ((deletion or vcf or pharyngeal pouch or thymic aplasia or anomaly face) adj (syndrome\$ or disease\$ or disorder\$)).ti,ab,kf. | 2393 |
| 32 | Common Variable Immunodeficiency/ | 2141 |
| 33 | ((common variable or late onset) adj3 (immunodeficienc\$ or immune deficienc\$ or immunoglobulin deficienc\$ or hypogammaglobulin\$)).ti,ab,kf. | 2640 |
| 34 | acquired hypogammaglobulin\$.ti,ab,kf. | 141 |
| 35 | Cryoglobulinemia/ | 3310 |
| 36 | cryoglobulin?em\$.ti,ab,kf. | 4269 |
| 37 | Polyendocrinopathies, Autoimmune/ | 1255 |
| 38 | ((autoimmune or failure\$) adj3 (polyglandular\$ or polyendocrin\$)).ti,ab,kf. | 1371 |
| 39 | Progeria/ | 1480 |
| 40 | (progeria or hutchinson-gilford\$).ti,ab,kf. | 1342 |

| 41 | Tyrosinemias/ | 432 |
|----|---|------|
| 42 | tyrosin?em\$.ti,ab,kf. | 1178 |
| 43 | Maple Syrup Urine Disease/ | 1234 |
| 44 | (maple syrup urine or msud).ti,ab,kf. | 1173 |
| 45 | branched chain.ti,ab,kf. | 8841 |
| 46 | (bckd adj5 (deficienc\$ or ketoacid\$ or keto-acid\$)).ti,ab,kf. | 83 |
| 47 | hyperleucine-isoleucin\$.ti,ab,kf. | 2 |
| 48 | Methylmalonic Acid/ | 1755 |
| 49 | (methylmalonic acid?emi\$ or methylmalonic aciduri\$ or methyl malonic acid?emi\$ or methyl malonic aciduri\$).ti,ab,kf. | 1291 |
| 50 | Propionic Acidemia/ | 167 |
| 51 | (propionic acid?em\$ or propionic acidur\$ or propionyl-CoA carboxylase deficienc\$ or ketotic glycin?em\$).ti,ab,kf. | 722 |
| 52 | Adrenoleukodystrophy/ | 1845 |
| 53 | (adrenoleukodystroph\$ or x-ald or schilder-addison\$ or addison-schilder\$ or adrenomyeloneuropath\$).ti,ab,kf. | 2169 |
| 54 | Carnitine O-Palmitoyltransferase/ | 2571 |
| 55 | ((carnitine palmityltransferase or carnitine palmitoyltransferase or carnitine o- palmityltransferase or carnitine o-palmitoyltransferase) adj3 deficienc\$).ti,ab,kf. | 289 |
| 56 | Fanconi Syndrome/ | 1679 |
| 57 | (fanconi\$ adj (syndrome\$ or disease\$ or disorder\$)).ti,ab,kf. | 1667 |
| 58 | Cystinosis/ | 1298 |
| 59 | (cystinos\$ or cystine storage or cystine diathes\$ or cystine disease\$).ti,ab,kf. | 1301 |
| 60 | Oculocerebrorenal Syndrome/ | 427 |
| 61 | ((lowe or lowes or oculocerebrorenal or cerebrooculorenal or cerebro-oculo- renal) adj3 (syndrome\$ or disease\$ or disorder\$)).ti,ab,kf. | 571 |
| 62 | Metalloproteins/df [Deficiency] | 66 |
| 63 | Molybdenum/df [Deficiency] | 72 |
| 64 | (molybdenum cofactor deficien\$ or molybdenum co-factor deficien\$).ti,ab,kf. | 173 |
| 65 | Oxidoreductases Acting on Sulfur Group Donors/df [Deficiency] | 118 |
| 66 | Sulfite Oxidase/df [Deficiency] | 43 |
| 67 | ((sulphite\$ or sulfite\$) adj3 oxidase deficien\$).ti,ab,kf. | 149 |
| 68 | Argininosuccinic Acid/ | 191 |
| 69 | (argininosuccinic acidur\$ or argininosuccinic acid?emi\$).ti,ab,kf. | 178 |
| 70 | Citrullinemia/ | 291 |
| 71 | (citrullin?emi\$ or citrullinuri\$).ti,ab,kf. | 547 |
| 72 | Amino Acid Metabolism, Inborn Errors/ | 6544 |
| 73 | (glutaric acid?emi\$ or glutaric aciduri\$).ti,ab,kf. | 772 |
| 74 | Hyperglycinemia, Nonketotic/ | 213 |
| 75 | (glycine encephalopath\$ or non-ketotic hyperglycin?emi\$ or nonketotic hyperglycin?emi\$).ti,ab,kf. | 509 |
| 76 | Hyperargininemia/ | 216 |
| 77 | (arginin?emi\$ or arginase deficien\$ or hyperarginin?emi\$).ti,ab,kf. | 298 |
| 78 | Renal Aminoacidurias/ | 791 |
| 79 | (aminoaciduri\$ or aminoacid?emi\$).ti,ab,kf. | 1159 |
| 80 | exp glycogen storage disease/ | 6381 |
| 81 | (glycogen storage adj (disease\$ or syndrome\$ or disorder\$)).ti,ab,kf. | 2766 |
| 82 | (pompe\$ adj (disease\$ or syndrome\$ or disorder\$)).ti,ab,kf. | 1304 |
| 83 | Galactosemias/ | 2457 |
| 84 | galactos?emi\$.ti,ab,kf. | 2226 |

| 85 | Pyruvate Dehydrogenase Complex Deficiency Disease/ | 455 |
|-----|---|------|
| 86 | (pyruvate dehydrogenase adj3 deficien\$).ti,ab,kf. | 446 |
| 87 | (oxalosis and (renal or kidney\$)).ti,ab,kf. | 445 |
| 88 | exp Gangliosidoses/ | 2802 |
| 89 | gangliosidos\$.ti,ab,kf. | 1552 |
| 90 | (sandhoff\$ adj (disease\$ or syndrome\$ or disorder\$)).ti,ab,kf. | 531 |
| 91 | tay sach\$.ti,ab,kf. | 1466 |
| 92 | Mucolipidoses/ | 1120 |
| 93 | mucolipidos\$.ti,ab,kf. | 918 |
| 94 | Canavan Disease/ | 333 |
| 95 | (canavan\$ leucodystroph\$ or aspartoacylase deficien\$ or aminoacylase 2 deficien\$).ti,ab,kf. | 49 |
| 96 | ((canavan\$ or canavan-van bogaert-bertrand\$) adj (disease\$ or syndrome\$ or disorder\$)).ti,ab,kf. | 424 |
| 97 | Gaucher Disease/ | 4833 |
| 98 | (gaucher\$ adj (disease\$ or syndrome\$ or disorder\$)).ti,ab,kf. | 4712 |
| 99 | (glucocerebrosidase deficien\$ or glucosylceramidase deficien\$).ti,ab,kf. | 101 |
| 100 | Leukodystrophy, Metachromatic/ | 1378 |
| 101 | (metachromatic leukodystroph\$ or arylsulfatase A deficien\$ or metachromic leukodystroph\$).ti,ab,kf. | 1244 |
| 102 | exp Niemann-Pick Diseases/ | 2555 |
| 103 | (niemann-pick\$ or sphingomyelinase deficien\$).ti,ab,kf. | 3323 |
| 104 | Sphingolipidoses/ | 404 |
| 105 | sphingolipidos\$.ti,ab,kf. | 323 |
| 106 | Fabry Disease/ | 3480 |
| 107 | (fabry\$ adj (disease\$ or syndrome\$ or disorder\$)).ti,ab,kf. | 3490 |
| 108 | (angiokeratoma corporis diffusum or alpha-galactosidase A deficien\$).ti,ab,kf. | 390 |
| 109 | Leukodystrophy, Globoid Cell/ | 1069 |
| 110 | (krabbe\$ adj (disease\$ or syndrome\$ or disorder\$)).ti,ab,kf. | 885 |
| 111 | (globoid cell leukodystroph\$ or galactosylceramide lipidos\$ or galactosylcerebrosidase deficien\$ or galactosylceramidase deficien\$).ti,ab,kf. | 521 |
| 112 | Farber Lipogranulomatosis/ | 42 |
| 113 | (farber\$ adj (disease\$ or syndrome\$ or disorder\$)).ti,ab,kf. | 181 |
| 114 | (farber\$ lipogranulomatos\$ or ceramidase deficien\$ or fibrocytic dysmucopolysaccharidos\$).ti,ab,kf. | 70 |
| 115 | Pelizaeus-Merzbacher Disease/ | 338 |
| 116 | pelizaeus-merzbacher\$.ti,ab,kf. | 605 |
| 117 | Sulfatases/df [Deficiency] | 455 |
| 118 | Multiple Sulfatase Deficiency Disease/ | 39 |
| 119 | (sulfatase deficien\$ or sulphatase deficien\$ or mucosulfatidos\$).ti,ab,kf. | 507 |
| 120 | (austin\$ adj (disease\$ or syndrome\$ or disorder\$)).ti,ab,kf. | 7 |
| 121 | sulfatidos\$.ti,ab,kf. | 18 |
| 122 | Sea-Blue Histiocyte Syndrome/ | 74 |
| 123 | sea-blue histiocyt\$.ti,ab,kf. | 233 |
| 124 | Neuronal Ceroid-Lipofuscinoses/ | 2056 |
| 125 | (batten\$ adj (disease\$ or syndrome\$ or disorder\$)).ti,ab,kf. | 658 |
| 126 | (neuronal ceroid lipofuscinos\$ or santavuori-haltia\$ or jansky-bielschowsky\$ or bielschowsky-jansky\$).ti,ab,kf. | 1848 |
| 127 | (kuf\$ adj (disease\$ or syndrome\$ or disorder\$)).ti,ab,kf. | 122 |
| 128 | spielmeyer vogt\$.ti,ab,kf. | 120 |

| 129 | Xanthomatosis, Cerebrotendinous/ | 339 |
|-----|---|------|
| 130 | ((cerebrotendineous or cerebrotendinous or cerebrotendious or cerebral) adj3 (xanthomatos\$ or cholesteros\$)).ti,ab,kf. | 653 |
| 131 | bogaert-scherer-epstein\$.ti,ab,kf. | 5 |
| 132 | Wolman Disease/ | 211 |
| 133 | (wolman\$ adj (disease\$ or syndrome\$ or disorder\$)).ti,ab,kf. | 309 |
| 134 | lysosomal acid lipase deficien\$.ti,ab,kf. | 68 |
| 135 | exp Mucopolysaccharidoses/ | 6662 |
| 136 | mucopolysaccharidos\$.ti,ab,kf. | 4158 |
| 137 | (hurler\$ adj2 (syndrome\$ or disease\$ or disorder\$)).ti,ab,kf. | 910 |
| 138 | (hunter\$ adj2 (syndrome\$ or disease\$ or disorder\$)).ti,ab,kf. | 884 |
| 139 | (MPS1 or MPS2 or MPS3 or MPS4 or MPS5 or MPS6 or MPS7 or MPS-1 or MPS-2 or MPS-3 or MPS-4 or MPS-5 or MPS-6 or MPS-7 or MPSI or MPSII or MPSIII or MPSIV or MPSV or MPSVI or MPSVII or MPS-I or MPS-II or MPS-III or MPS-IV or MPS-V or MPS-VI or MPS-VII).ti,ab,kf. | 2270 |
| 140 | (beta glucuronidase deficien\$ or sly syndrome\$ or sly disorder\$ or sly disease\$).ti,ab,kf. | 188 |
| 141 | (maroteaux-lamy\$ or marotaeux-lamy\$ or polydystrophic dwarfism).ti,ab,kf. | 329 |
| 142 | (morquio\$ or moriquio\$ or beta galactosidase deficien\$).ti,ab,kf. | 947 |
| 143 | (sanfilippo\$ or sanfillipo\$).ti,ab,kf. | 627 |
| 144 | Mucolipidoses/ | 1120 |
| 145 | (mucolipidos\$ or pseudo-hurler\$ or pseudohurler\$).ti,ab,kf. | 944 |
| 146 | ((inclusion-cell or i-cell) adj (disease\$ or syndrome\$ or disorder\$)).ti,ab,kf. | 417 |
| 147 | Fucosidosis/ | 168 |
| 148 | (fucosidos\$ or fucidos\$).ti,ab,kf. | 332 |
| 149 | "Congenital Disorders of Glycosylation"/ | 643 |
| 150 | ((cdg or ctg) adj (disease\$ or disorder\$ or syndrome\$)).ti,ab,kf. | 98 |
| 151 | (carbohydrate-deficient glycoprotein adj (disease\$ or disorder\$ or syndrome\$)).ti,ab,kf. | 259 |
| 152 | (congenital disorder\$ adj3 glycosylation).ti,ab,kf. | 772 |
| 153 | Lesch-Nyhan Syndrome/ | 1313 |
| 154 | ((nyhan\$ or kelley-seegmiller\$) adj (syndrome\$ or disorder\$ or disease\$)).ti,ab,kf. | 1019 |
| 155 | juvenile gout.ti,ab,kf. | 26 |
| 156 | Menkes Kinky Hair Syndrome/ | 108 |
| 157 | menkes\$.ti,ab,kf. | 1310 |
| 158 | ((copper transport or steely hair or kinky hair) adj (disease\$ or syndrome\$ or disorder\$)).ti,ab,kf. | 282 |
| 159 | alpha 1-Antitrypsin Deficiency/ | 3417 |
| 160 | (antitrypsin deficien\$ or A1AD).ti,ab,kf. | 298 |
| 161 | (AAT deficien\$ or alpha-1 protease deficien\$).ti,ab,kf. | 477 |
| 162 | bisalbumin?emi\$.ti,ab,kf. | 192 |
| 163 | Lipodystrophy, Congenital Generalized/ | 175 |
| 164 | (congenital generali?ed lipodystroph\$ or berardinelli\$ or bernardnelli\$).ti,ab,kf. | 344 |
| 165 | Landau-Kleffner Syndrome/ | 281 |
| 166 | (landau-kleffner\$ or infantile acquired aphasia\$ or acquired epileptic aphasia\$).ti,ab,kf. | 438 |
| 167 | (aphasia\$ adj5 convulsive).ti,ab,kf. | 36 |
| 168 | Rett Syndrome/ | 2577 |
| 169 | (rett\$ adj (syndrome\$ or disease\$ or disorder\$)).ti,ab,kf. | 3127 |
| 170 | cerebroatrophic hyperammon?emi\$.ti,ab,kf. | 0 |

| 171 | Huntington Disease/ | 12189 |
|-----|--|-------|
| 172 | huntington\$.ti,ab,kf. | 15654 |
| 173 | exp Spinocerebellar Ataxias/ | 6506 |
| 174 | (spinocerebellar ataxia\$ or ataxia\$ telangiectasia\$ or louis-bar\$ syndrome\$ or louis-bar\$ disease\$ or louis-bar\$ disorder\$ or machado-joseph\$ or joseph\$ disease\$ or joseph\$ disorder\$ or joseph\$ syndrome\$).ti,ab,kf. | 10284 |
| 175 | Friedreich Ataxia/ | 2712 |
| 176 | ((friedreich\$ or friedrich\$) adj3 ataxia\$).ti,ab,kf. | 2822 |
| 177 | spinocerebellar degenerat\$.ti,ab,kf. | 705 |
| 178 | "Spinal Muscular Atrophies of Childhood"/ | 1237 |
| 179 | (spinal muscular atroph\$ or werdnig hoffman\$).ti,ab,kf. | 4515 |
| 180 | (dubowitz\$ or kugelberg-welander\$).ti,ab,kf. | 499 |
| 181 | Bulbar Palsy, Progressive/ | 853 |
| 182 | (fazio-londe\$ or faziolonde\$ or progressive bulbar pals\$).ti,ab,kf. | 116 |
| 183 | Pantothenate Kinase-Associated Neurodegeneration/ | 517 |
| 184 | (pantothenate kinase-associated neurodegenerat\$ or PKAN or hallervorden- spatz\$).ti,ab,kf. | 604 |
| 185 | ((neurodegeneration adj3 brain iron accumulation) or NBIA\$1).ti,ab,kf. | 368 |
| 186 | Olivopontocerebellar Atrophies/ | 732 |
| 187 | (olivopontocerebellar atroph\$ or OPCA or olivopontocerebellar degenerat\$).ti,ab,kf. | 820 |
| 188 | (multiple system atrophy adj5 cerebellar).ti,ab,kf. | 164 |
| 189 | "Diffuse Cerebral Sclerosis of Schilder"/ | 2622 |
| 190 | (alper\$ adj (disease\$ or syndrome\$ or disorder\$)).ti,ab,kf. | 179 |
| 191 | (progressive sclerosing poliodystroph\$ or progressive infantile poliodystroph\$).ti,ab,kf. | 4 |
| 192 | (diffuse cerebral sclerosis adj5 schilder\$).ti,ab,kf. | 5 |
| 193 | Leigh Disease/ | 1096 |
| 194 | (leigh\$ adj (syndrome\$ or disease\$ or disorder\$)).ti,ab,kf. | 1296 |
| 195 | (subacute necrotizing encephalomyelopath\$ or subacute necrotising encephalomyelopath\$ or sub-acute necrotizing encephalomyelopath\$ or sub- acute necrotising encephalomyelopath\$ or SNEM).ti,ab,kf. | 206 |
| 196 | (aicardi-gouti?res or aicardia-gouti?res).ti,ab,kf. | 348 |
| 197 | (worster-drought\$ or congenital suprabulbar pares\$).ti,ab,kf. | 37 |
| 198 | multiple sclerosis/ or multiple sclerosis, chronic progressive/ or multiple sclerosis, relapsing-remitting.mp. [mp=title, abstract, original title, name of substance word, subject heading word, keyword heading word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms] | 58674 |
| 199 | (multiple sclerosis or disseminated sclerosis or encephalomyelitis disseminata\$).ti,ab,kf. | 65070 |
| 200 | (demyelinating adj (disease\$ or syndrome\$ or disorder\$)).ti,ab,kf. | 6979 |
| 201 | exp Epilepsies, Myoclonic/ | 4644 |
| 202 | myoclonic epileps\$.ti,ab,kf. | 2330 |
| 203 | ((lafora\$ or merrf\$ or unverricht-lundborg\$ or janz\$) adj (disease\$ or syndrome\$ or disorder\$)).ti,ab,kf. | 745 |
| 204 | lennox-gastaut\$.ti,ab,kf. | 1169 |
| 205 | (lennox\$ adj (syndrome\$ or disease\$ or disorder\$)).ti,ab,kf. | 90 |
| 206 | Spasms, Infantile/ | 3478 |
| 207 | (west\$ adj (syndrome\$ or disease\$ or disorder\$)).ti,ab,kf. | 1217 |
| 208 | Epilepsia Partialis Continua/ | 238 |

| 209 | (epilepsia partialis continua or kojevnikov\$ or epilepsia partialis continuoa or kozhevnikof\$).ti,ab,kf. | 473 |
|-----|---|-------|
| 210 | Charcot-Marie-Tooth Disease/ | 3918 |
| 211 | (charcot-marie-tooth\$ or peroneal muscular atroph\$).ti,ab,kf. | 4168 |
| 212 | (progressive neuropathic muscular atroph\$ or hereditary peroneal nerve dysfunction\$ or peroneal neuropath\$).ti,ab,kf. | 159 |
| 213 | "Hereditary Sensory and Motor Neuropathy"/ | 1263 |
| 214 | (hereditary sensory adj3 motor neuropath\$).ti,ab,kf. | 44 |
| 215 | (hereditary motor adj3 sensory neuropath\$).ti,ab,kf. | 888 |
| 216 | Refsum Disease, Infantile/ | 11 |
| 217 | Peroxisomal Disorders/ | 612 |
| 218 | (infantile refsum or infantile phytanic acid storage).ti,ab,kf. | 154 |
| 219 | Myasthenic Syndromes, Congenital/ | 518 |
| 220 | congenital myasth?eni\$.ti,ab,kf. | 788 |
| 221 | Muscular Dystrophy, Duchenne/ | 5093 |
| 222 | (duchenne muscular dystroph\$ or dmd).ti,ab,kf. | 10130 |
| 223 | exp Muscular Dystrophies, Limb-Girdle/ | 1034 |
| 224 | (limb-girdle or erb\$ muscular dystroph\$).ti,ab,kf. | 2531 |
| 225 | (sarcoglycanopath\$ or sarcoglycaopath\$).ti,ab,kf. | 226 |
| 226 | Osteochondrodysplasias/ | 5278 |
| 227 | (osteochondrodysplas\$ or schwartz-jampel or chondrodystrophi\$ myotoni\$ or myotoni\$ chondrodystrophi\$).ti,ab,kf. | 700 |
| 228 | Myotonia Congenita/ | 979 |
| 229 | (congenita\$ myotoni\$ or myotoni\$ congenita\$).ti,ab,kf. | 870 |
| 230 | (thomsen\$ adj (disease\$ or disorder\$ or syndrome\$)).ti,ab,kf. | 102 |
| 231 | ((recessive adj3 myotoni\$) or becker\$ myotoni\$).ti,ab,kf. | 144 |
| 232 | Isaacs Syndrome/ | 260 |
| 233 | (isaac\$ adj (syndrome\$ or disease\$ or disorder\$)).ti,ab,kf. | 150 |
| 234 | neuromyotoni\$.ti,ab,kf. | 465 |
| 235 | Myotonic Disorders/ | 298 |
| 236 | (paramyotoni\$ congenita\$ or congenita\$ paramyotoni\$).ti,ab,kf. | 310 |
| 237 | (eulenburg\$ adj (disease\$ or syndrome\$ or disorder\$)).ti,ab,kf. | 1 |
| 238 | (myotoni\$ adj (disease\$ or disorder\$ or syndrome\$)).ti,ab,kf. | 189 |
| 239 | pseudomyotoni\$.ti,ab,kf. | 89 |
| 240 | exp Myopathies, Structural, Congenital/ | 1236 |
| 240 | (congenital adj3 myopath\$).ti,ab,kf. | 1263 |
| 241 | myopathycongenital.ti,ab,kf. | 0 |
| 242 | ((nemaline or rod) adj3 myopath\$).ti,ab,kf. | 762 |
| 243 | ((central core or mini-core or minicore or multi-core) adj (disease\$ or disorder\$ or syndrome\$ or myopath\$)).ti,ab,kf. | 542 |
| 245 | fiber type disproportion.ti,ab,kf. | 157 |
| 245 | fibre type disproportion.ti,ab,kf. | 69 |
| 240 | Muscular Dystrophies/cn [Congenital] | 843 |
| 247 | (congenital\$ adj5 muscular dystroph\$).ti,ab,kf. | 1916 |
| 248 | ((centronuclear or myotubular) adj myopath\$).ti,ab,kf. | 665 |
| | | |
| 250 | exp Mitochondrial Myopathies/ (mitochondrial myopath\$ or mitochondrial encephalomyopath\$ or chronic | 5247 |
| 251 | progressive external ophthalmopleg\$).ti,ab,kf. | 3479 |
| 252 | ((melas or kearns-sayre\$) adj (syndrome\$ or disease\$ or disorder\$)).ti,ab,kf. | 1098 |
| 253 | Quadriplegia/ and spastic\$.ti,ab,kf. | 676 |

| 254 | (spastic quadriplegi\$ or spastic tetraplegi\$).ti,ab,kf. | 674 1734 | | |
|-----|---|-------------|--|--|
| 255 | Reye Syndrome/ | | | |
| 256 | (reye\$ adj (syndrome\$ or disease\$ or disorder\$)).ti,ab,kf. | 1804 | | |
| 257 | multiple pterygium.ti,ab,kf. | 149 | | |
| 258 | Hypertension, Pulmonary/ and primary\$.ti,ab,kf. | | | |
| 259 | ((primary pulmonary or precapillary pulmonary or idiopathic pulmonary) adj (hypertension or ht or arterial hypertension)).ti,ab,kf. | 2964 | | |
| 260 | ((primary bronchopulmonary or precapillary bronchopulmonary or idiopathic bronchopulmonary) adj (hypertension or ht or arterial hypertension)).ti,ab,kf. | 0 | | |
| 261 | ((primary lung or precapillary lung or idiopathic lung) adj (hypertension or ht or arterial hypertension)).ti,ab,kf. | | | |
| 262 | ipah.ti,ab,kf. | 868 | | |
| 263 | Cardiomyopathy, Dilated/ | 16170 | | |
| 264 | ((congestive or dilated) adj cardiomyopath\$).ti,ab,kf. | 16870 | | |
| 265 | exp Cardiomyopathy, Hypertrophic/ | 15053 | | |
| 266 | (hypertrophic adj cardiomyopath\$).ti,ab,kf. | 12120 | | |
| 267 | Cardiomyopathies/cn [Congenital] | 177 | | |
| 268 | (congenital adj3 cardiomyopath\$).ti,ab,kf. | 549 | | |
| 269 | Cardiomyopathy, Restrictive/ | 838 | | |
| 270 | (restrictive cardiomyopath\$ or obliterative cardiomyopath\$ or constrictive cardiomyopath\$).ti,ab,kf. | 1174 | | |
| 271 | exp Pulmonary Fibrosis/ | 2136 | | |
| 272 | (pulmonary fibros\$ or lung fibros\$ or bronchopulmonary fibros\$ or fibrosing alveolit\$ or interstitial pneumonit\$).ti,ab,kf. | | | |
| 273 | Respiratory Insufficiency/ | 31950 | | |
| 274 | (respiratory adj (failure\$ or insufficienc\$)).ti,ab,kf. | 33679 | | |
| 275 | "Cystic Adenomatoid Malformation of Lung, Congenital"/ | 937 | | |
| 276 | ((cystic lung or cystic pulmonary or cystic bronchopulmonary) adj (disease\$ or disorder or syndrome\$)).ti,ab,kf. | 308 | | |
| 277 | (bronchogenic cyst\$ or bronchopulmonary foregut malformation\$).ti,ab,kf. | 1618 | | |
| 278 | cystic adenomatoid malformation\$.ti,ab,kf. | 954 | | |
| 279 | lobar emphysem\$.ti,ab,kf. | 601 | | |
| 280 | (pulmonary sequestration\$ or bronchopulmonary sequestration\$ or lung sequestration\$ or extralobar sequestration\$ or extra-lobar sequestration\$ or intralobar sequestration\$ or intra-lobar sequestration\$).ti,ab,kf. | 2064 | | |
| 281 | pulmolithias\$.ti,ab,kf. | 6 | | |
| 282 | exp Liver Failure/ | 2462 | | |
| 283 | ((liver\$1 or hepatic) adj3 fail\$).ti,ab,kf. | 2635 | | |
| 284 | exp Liver Cirrhosis/ | 8826 | | |
| 285 | (cirrhosis adj3 liver\$1).ti,ab,kf. | 3750 | | |
| 286 | Hepatic Veno-Occlusive Disease/ | 1297 | | |
| 287 | ((veno-occlusive or venous occlusive) adj (disease\$ or syndrome\$ or disorder\$)).ti,ab,kf. | | | |
| 288 | Exocrine Pancreatic Insufficiency/ | | | |
| 289 | (swachman-diamond or shwachman-bodian or schwachmann-diamond or shwachmann-bodian).ti,ab,kf. | | | |
| 290 | Granulomatosis with Polyangiitis/ | 7185 | | |
| 291 | wegener\$ granulomatos\$.ti,ab,kf. | | | |
| 292 | (granulomatos\$ adj3 polyangiit\$).ti,ab,kf. | | | |
| 293 | Osteolysis, Essential/ | | | |
| 294 | essential osteolys\$.ti,ab,kf. | 835 26 | | |

| 295 | ((gorham\$ or gorham-stout\$ or vanishing bone or phantom bone) adj (disease\$ or syndrome\$ or disorder)).ti,ab,kf. | 261 | | | |
|-----|--|------------|--|--|--|
| 296 | ((arc or arthrogryposis renal dysfunction cholestasis) adj (disease\$ or syndrome\$ or disorder)).ti,ab,kf. | 89 | | | |
| 297 | Cerebral Hemorrhage/cn [Congenital] | 120 | | | |
| 298 | Cerebral Hemorrhage, Traumatic/ | | | | |
| 299 | Cerebral Hemorrhage/ and Birth Injuries.mp. [mp=title, abstract, original title, name of substance word, subject heading word, keyword heading word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms] | | | | |
| 300 | (cerebral h?emorrhage\$ and (birth\$ adj3 injur\$)).ti,ab,kf. | 47 | | | |
| 301 | Asphyxia Neonatorum/ | 7865 | | | |
| 302 | asphyxia neonatorum.ti,ab,kf. | 1426 | | | |
| 303 | ((perinatal\$ or neonatal\$ or birth\$) adj3 asphyxia\$).ti,ab,kf. | 4627 | | | |
| 304 | Rubella Syndrome, Congenital/ | 761 | | | |
| 305 | congenital rubella.ti,ab,kf. | 1614 | | | |
| 306 | exp Cytomegalovirus Infections/cn [Congenital] | 1717 | | | |
| 307 | (congenital adj (cytomegalovirus\$ or cmv)).ti,ab,kf. | 1507 | | | |
| 308 | Chickenpox/cn [Congenital] | 262 | | | |
| 309 | exp Herpes Zoster/cn [Congenital] | 37 | | | |
| 310 | Herpesvirus 3, Human/ and congenital\$.ti,ab,kf. | 104 | | | |
| 311 | ((congenital or fetal or foetal) adj3 (varicella\$ or chicken pox\$ or VZV)).ti,ab,kf. | 282 | | | |
| 312 | Toxoplasmosis, Congenital/ | 2749 | | | |
| 313 | congenital toxoplasmos\$.ti,ab,kf. | 1834 | | | |
| 314 | exp Hypoxia, Brain/ | 12700 | | | |
| 315 | ((brain\$ or cerebral) adj3 hypoxi\$).ti,ab,kf. | 6546 | | | |
| 316 | Renal Insufficiency/cn [Congenital] | 16 | | | |
| 317 | Acute Kidney Injury/cn [Congenital] | 18 | | | |
| 318 | Renal Insufficiency, Chronic/cn [Congenital] | 7 | | | |
| 319 | Kidney Failure, Chronic/cn [Congenital] | 47 | | | |
| 320 | (congenital\$ adj3 (kidney failure\$ or renal failure\$ or kidney insufficienc\$ or renal insufficienc\$)).ti,ab,kf. | 75 | | | |
| 321 | (congenital\$ adj3 (kidney disease\$ or renal disease\$)).ti,ab,kf. | 243 | | | |
| 322 | Anencephaly/ | 3213 | | | |
| 323 | (anencephal\$ or meroanencephal\$ or craniorachischis\$).ti,ab,kf. | 3016 | | | |
| 324 | (aprosencephal\$ adj3 open cranium).ti,ab,kf. | 0 | | | |
| 325 | Encephalocele/ | 3791 | | | |
| 326 | (encephalocele\$ or cranium bifidum).ti,ab,kf. | 2217 | | | |
| 327 | Dandy-Walker Syndrome/ | 1101 | | | |
| 328 | dandy-walker\$.ti,ab,kf. | 1217 | | | |
| 329 | Acrocallosal Syndrome/ | 83 | | | |
| 330 | (acrocallosal or acro-callosal or acrocolossal or acro colossal).ti,ab,kf. | 98 | | | |
| 331 | Aicardi Syndrome/ | 81 | | | |
| 332 | (aicardi\$ adj (syndrome\$ or disease\$ or disorder\$)).ti,ab,kf. | 315 | | | |
| 333 | Holoprosencephaly/ | 1175 | | | |
| 334 | (holoprosencephal\$ or arhinencephal\$ or holosprosencephal\$).ti,ab,kf. | | | | |
| 335 | Hydranencephaly/ | | | | |
| 336 | (hydranencephal\$ or hydrancephal\$ or hydroanencephal\$).ti,ab,kf. | 480 538 | | | |
| 337 | exp Lissencephaly/ | | | | |
| 338 | Microcephaly/ | | | | |

| 339 | (lissencephal\$ or walker-warburg\$ or miller-dieker\$ or norman-robert\$ or microlissencephal\$).ti,ab,kf. | 1775 | |
|-----|--|------|--|
| 340 | ((fukuyama\$ or muscle-eye-brain) adj (syndrome\$ or disease\$ or disorder\$)).ti,ab,kf. | 195 | |
| 341 | "Malformations of Cortical Development"/ | 1217 | |
| 342 | (microgyria\$ or microgyrus or micro-gyria\$ or micro-gyrus).ti,ab,kf. | 191 | |
| 343 | (pachygyria\$ or pachgyria\$).ti,ab,kf. | 457 | |
| 344 | agyria\$.ti,ab,kf. | 204 | |
| 345 | Septo-Optic Dysplasia/ | 193 | |
| 346 | ((septo-optic or septooptic) adj dysplas\$).ti,ab,kf. | 431 | |
| 347 | de morsier\$.ti,ab,kf. | 77 | |
| 348 | (schizencephal\$ or schizzencephal\$).ti,ab,kf. | 443 | |
| 349 | Arnold-Chiari Malformation/ | 3535 | |
| 350 | chiari\$ malformation\$.ti,ab,kf. | 2102 | |
| 351 | Truncus Arteriosus, Persistent/ | 892 | |
| 352 | (truncus or common arterial trunk\$).ti,ab,kf. | 2357 | |
| 353 | "Transposition of Great Vessels"/ | 7449 | |
| | ((transposition\$ or dextrotransposition\$ or dtransposition\$ or | | |
| 354 | levotransposition\$ or ltransposition\$) adj3 (great arter\$ or main arter\$ or aorta\$ | 6303 | |
| | or pulmonary arter\$ or great vessel\$ or main vessel\$)).ti,ab,kf. | | |
| 355 | (dextro-tga or d-tga or levo-tga or l-tga).ti,ab,kf. | 261 | |
| 356 | (double inlet adj3 ventricle\$).ti,ab,kf. | 329 | |
| 357 | DILV.ti,ab,kf. | 33 | |
| 358 | single ventricle\$.ti,ab,kf. | 2783 | |
| 359 | Heart Defects, Congenital/ and Atrial Appendage.mp. [mp=title, abstract, original title, name of substance word, subject heading word, keyword heading word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms] | | |
| 360 | (isomerism adj3 atrial appendage\$).ti,ab,kf. | 29 | |
| 361 | (aspleni\$ or polyspleni\$ or poly-spleni\$).ti,ab,kf. | 2005 | |
| 362 | "Tetralogy of Fallot"/ | 9588 | |
| 363 | (tetralogy adj3 fallot\$).ti,ab,kf. | 9066 | |
| 364 | Eisenmenger Complex/ | 1139 | |
| 365 | (eisenmenger\$ or tardive cyanos\$ or eisenmeyer\$).ti,ab,kf. | 1219 | |
| 366 | (pentalogy adj3 fallot\$).ti,ab,kf. | 71 | |
| 367 | Pulmonary Atresia/ | 1412 | |
| 368 | ((pulmonary or bronchopulmonary or lung\$) adj3 atresia\$).ti,ab,kf. | 3230 | |
| 369 | Tricuspid Atresia/ | 580 | |
| 370 | ((tricuspid or tri) adj3 atresia\$).ti,ab,kf. | 1498 | |
| 371 | Ebstein Anomaly/ | 1997 | |
| 372 | (ebstein\$ adj (anomal\$ or malformation\$)).ti,ab,kf. | 1933 | |
| 373 | Hypoplastic Left Heart Syndrome/ | 2350 | |
| 374 | (hypoplastic left heart adj (syndrome\$ or disease\$ or disorder\$)).ti,ab,kf. | 2640 | |
| 375 | ((aortic or aorta\$) adj3 atresia\$).ti,ab,kf. | | |
| 376 | (mitral adj3 atresia\$).ti,ab,kf. | | |
| 377 | ((absence\$ or absent\$) adj3 (aorta\$ or aortic)).ti,ab,kf. | | |
| 378 | (aplas\$ adj3 (aorta\$ or aortic)).ti,ab,kf. | | |
| 379 | exp Aortic Aneurysm/cn [Congenital] | | |
| 380 | (((aorta\$ or aortic) adj3 aneurys\$) and congenital\$).ti,ab,kf. | | |
| | (hypoplas\$ adj3 (aorta\$ or aortic)).ti,ab,kf. | 680 | |

| 382 | (convulsion\$ adj3 (aorta\$ or aortic)).ti,ab,kf. | | | |
|-----|---|------|--|--|
| 383 | (persistent right adj3 (aorta\$ or aortic)).ti,ab,kf. | | | |
| 384 | ((anomalous pulmonary venous or anamolous pulmonary venous) adj (connection or drainage or return)).ti,ab,kf. | 2680 | | |
| 385 | ((absence\$ or absent\$) adj3 vena\$ cava\$).ti,ab,kf. | 308 | | |
| 386 | (persistent left adj3 cardinal vein\$).ti,ab,kf. | 5 | | |
| 387 | Scimitar Syndrome/ | 754 | | |
| 388 | ((scimitar\$ or pulmonary venolobar) adj (syndrome\$ or disease\$ or disorder\$)).ti,ab,kf. | 573 | | |
| 389 | (arteriovenous malformations/ or intracranial arteriovenous malformations/) and bilateral.ti,ab,kf. | 432 | | |
| 390 | ((bilateral AV or bilateral arteriovenous or bilateral arterio-venous) adj3 malform\$).ti,ab,kf. | 15 | | |
| 391 | ((trachea\$ or windpipe\$ or wind-pipe\$) adj3 atresia\$).ti,ab,kf. | 122 | | |
| 392 | Tracheal Stenosis/ | 594 | | |
| 393 | ((trachea\$ or laryngotrachea\$ or glottic or subglottic or sub-glottic) adj3 stenosis).ti,ab,kf. | 491 | | |
| 394 | Bronchopulmonary Dysplasia/ | 425 | | |
| 395 | ((lung\$ or pulmonary or bronchopulmonary) adj3 (hypoplas\$ or dysplas\$)).ti,ab,kf. | 967 | | |
| 396 | ((absence\$ or absent\$) adj3 (esophag\$ or oesophag\$ or foodpipe or food-pipe\$ or gullet\$)).ti,ab,kf. | 481 | | |
| 397 | Intestinal Atresia/ | 218 | | |
| 398 | (duoden\$ adj3 atresia\$).ti,ab,kf. | 752 | | |
| 399 | ((absence\$ or absent\$) adj3 (intestin\$ or gastrointestin\$)).ti,ab,kf. | 948 | | |
| 400 | ((intestin\$ or gastrointestin\$) adj3 atresia\$).ti,ab,kf. | 113 | | |
| 401 | ((intestin\$ or gastrointestin\$) adj3 stenos\$).ti,ab,kf. | 664 | | |
| 402 | (cloaca\$ adj3 (abnor\$ or malform\$ or anomal\$)).ti,ab,kf. | 412 | | |
| 403 | (cloaca\$ adj3 exopthalmo\$).ti,ab,kf. | 0 | | |
| 404 | Biliary Atresia/ | 299 | | |
| 405 | (biliary adj3 atresia\$).ti,ab,kf. | 398 | | |
| 406 | (extrahepatic ductopen\$ or extra-hepatic ductopen\$ or progressive obliterative cholangiopath\$).ti,ab,kf. | 5 | | |
| 407 | (biliary adj3 hypoplas\$).ti,ab,kf. | 72 | | |
| 408 | (alagille\$ adj3 atresia\$).ti,ab,kf. | 32 | | |
| 409 | ((absence\$ or absent\$) adj3 kidney\$).ti,ab,kf. | 880 | | |
| 410 | (potter\$ adj (sequence\$ or syndrome\$ or disease\$ or disorder\$)).ti,ab,kf. | 316 | | |
| 411 | Oligohydramnios/ | 129 | | |
| 412 | oligohydramn\$.ti,ab,kf. | 245 | | |
| 413 | Multicystic Dysplastic Kidney/ | 513 | | |
| 414 | ((kidney\$ or renal) adj3 dysplas\$).ti,ab,kf. | 308 | | |
| 415 | ((Mulleys of Tenal) adjs dysplass).(1,ab,Kl. ((meckel\$ or meckelgruber\$ or gruber\$) adj (syndrome\$ or disease\$ or disorder\$)).ti,ab,kf. | | | |
| 416 | dysencephalia splanchnocystica\$.ti,ab,kf. | 8 | | |
| 417 | (pena-shokeir\$ or penn-shokeir\$).ti,ab,kf. | 104 | | |
| 418 | (larsen\$ adj (syndrome\$ or disease\$ or disorder\$)).ti,ab,kf. | | | |
| 419 | Acrocephalosyndactylia/ | | | |
| 420 | acrocephalosyndactyl\$.ti,ab,kf. | | | |
| 421 | (pfeiffer\$ adj (syndrome\$ or disease\$ or syndrome\$)).ti,ab,kf. | | | |
| 422 | Short Rib-Polydactyly Syndrome/ | | | |
| 423 | short rib\$1.ti,ab,kf. | 300 | | |

| 424 | (saldino-noonan\$ or majewski\$ or verma-naumoff\$ or beemer-langer\$).ti,ab,kf. | | | |
|-----|--|------------|--|--|
| 425 | (jeune\$ adj (syndrome\$ or disease\$ or disorder\$)).ti,ab,kf. | | | |
| 426 | asphyxiating thoracic dysplas\$.ti,ab,kf. | 53 1082 | | |
| 427 | exp Chondrodysplasia Punctata/ | | | |
| 428 | chondrodysplasia punctata\$.ti,ab,kf. | 709 | | |
| 429 | (conradi\$ or h?nermann\$ or happle\$) adj3 (syndrome\$ or disease\$ or lisorder\$)).ti,ab,kf. | | | |
| 430 | steogenesis Imperfecta/ | | | |
| 431 | osteogenesis imperfecta.ti,ab,kf. | 4407 | | |
| 432 | ((brittle bone or lobstein\$) adj (disease\$ or disorder\$ or syndrome\$)).ti,ab,kf. | 218 | | |
| 433 | Osteochondrodysplasias/ | 5278 | | |
| 434 | (spondyloepimetaphyseal or spondyloepiphyseal or spendylo metaphyseal).ti,ab,kf. | 683 | | |
| 435 | Hernia, Umbilical/ | 3894 | | |
| 436 | (omphalocele\$ or omphalocoele\$ or exomphalos).ti,ab,kf. | 2315 | | |
| 437 | (hernia\$ adj3 umbilic\$).ti,ab,kf. | 2123 | | |
| 438 | Gastroschisis/ | 1245 | | |
| 439 | gastroschis\$.ti,ab,kf. | 2168 | | |
| 440 | Ichthyosis, Lamellar/ | 758 | | |
| 441 | (lamellar\$ adj3 ichthyos\$).ti,ab,kf. | 395 | | |
| 442 | ((harlequin\$ or harloquin\$) adj3 (ichthyos\$ or baby or babies or f?etus\$)).ti,ab,kf. | 248 | | |
| 443 | (ichthyosis congenita\$ or ichthyosis fetalis or keratosis diffusa fetalis).ti,ab,kf. | 82 | | |
| 444 | exp Epidermolysis Bullosa/ | 4916 | | |
| 445 | epidermolysis bullosa\$.ti,ab,kf. | 4833 | | |
| 446 | (johanson-blizzard\$ or johanna-blizzard\$).ti,ab,kf. | 96 | | |
| 447 | Xeroderma Pigmentosum/ | 3573 | | |
| 448 | xeroderma pigmentosum.ti,ab,kf. | 4191 | | |
| 449 | Ectodermal Dysplasia/ | 3398 | | |
| 450 | lacrimo-auriculo-dento-digital.ti,ab,kf. | 54 | | |
| 451 | ectodermal dysplas\$.ti,ab,kf. | 2652 | | |
| 452 | ((ladd or eec) adj (syndrome\$ or disease\$ or disorder\$)).ti,ab,kf. | 236 | | |
| 453 | Sturge-Weber Syndrome/ | 1250 | | |
| 454 | (sturge-weber or encephalotrigeminal angiomatos\$).ti,ab,kf. | 1423 | | |
| 455 | Fetal Alcohol Spectrum Disorders/ | 4029 | | |
| 456 | f?etal alcohol.ti,ab,kf. | 3685 | | |
| 457 | Pierre Robin Syndrome/ | 1344 | | |
| 458 | pierre robin\$.ti,ab,kf. | 1095 | | |
| 459 | Acrocephalosyndactylia/ | 1564 | | |
| 460 | (acrocephalosyndact\$ or acrocephalopolysyndact\$).ti,ab,kf. | 327 | | |
| 461 | ((apert\$ or crouzon\$ or saethre-chotzen\$ or noack\$ or carpenter\$ or sakati- nyhan-tisdale\$ or goodman\$) adj (syndrome\$ or disorder\$ or disease\$)).ti,ab,kf. | | | |
| 462 | Fraser Syndrome/ | | | |
| 463 | (fraser\$ adj (syndrome\$ or disease\$ or disorder\$)).ti,ab,kf. | 194 | | |
| 464 | cryptophthalmos.ti,ab,kf. | | | |
| 465 | (cyclopia\$1 or cyclocephal\$ or synophthalmi\$).ti,ab,kf. | 190 596 | | |
| 466 | Goldenhar Syndrome/ | 738 | | |
| 467 | (goldenhar\$ or oculo-auriculo-vertebral).ti,ab,kf. | 791 | | |
| 468 | Mobius Syndrome/ | | | |

| 469 | ((m?bius\$ or moebius\$) adj (syndrome\$ or disease\$ or disorder\$)).ti,ab,kf. | 542 | | |
|-----|---|------|--|--|
| 470 | Orofaciodigital Syndromes/ | | | |
| 471 | (orofaciodigital or oro-facial-digital or oral-facial-digital or papillon-league\$ or psaume\$).ti,ab,kf. | 457 | | |
| 472 | (robin\$ adj (syndrome\$ or disorder\$ or disease\$)).ti,ab,kf. | | | |
| 473 | (freeman-sheldon\$ or distal arthrogrypos\$ or craniocarpotarsal dysplas\$ or craniocarpotarsal dystroph\$ or canio-carpo-tarsal or windmill-vane-hand\$ or whistling-face).ti,ab,kf. | | | |
| 474 | De Lange Syndrome/ | 818 | | |
| 475 | ((de lange\$ or bushy\$) adj (syndrome\$ or disorder\$ or disease\$)).ti,ab,kf. | 875 | | |
| 476 | amsterdam dwarfism.ti,ab,kf. | 5 | | |
| 477 | (aarskog or faciodigitogenital or facio-digito-genital or facial digital genital or shawl scrotum or faciogenital or facio-genital).ti,ab,kf. | 191 | | |
| 478 | Cockayne Syndrome/ | 876 | | |
| 479 | (cockayne\$ or neill-dingwall\$).ti,ab,kf. | 1313 | | |
| 480 | (cerebro-oculo-facio-skeletal or cerebro-oculo-facial-skeletal).ti,ab,kf. | 67 | | |
| 481 | (dubowitz\$ adj (syndrome\$ or disease\$ or disorder\$)).ti,ab,kf. | 103 | | |
| 482 | (robinow\$ or robinhow\$).ti,ab,kf. | 200 | | |
| 483 | (f?etal face or f?etal facies or f?etal faces or acral dysostos\$ or mesomelic dwarfism or covesdem\$).ti,ab,kf. | 243 | | |
| 484 | Silver-Russell Syndrome/ | 210 | | |
| 485 | (silver-russell\$ or russell-silver\$).ti,ab,kf. | 633 | | |
| 486 | (silver\$ adj (syndrome\$ or disease\$ or disorder\$)).ti,ab,kf. | 337 | | |
| 487 | ((seckel\$ or harper\$) adj (syndrome\$ or disease\$ or disorder\$)).ti,ab,kf. | 264 | | |
| 488 | (microcephalic primordial dwarfism or bird-headed dwarf\$ or virchow-seckel dwarfism).ti,ab,kf. | 81 | | |
| 489 | Smith-Lemli-Opitz Syndrome/ | 580 | | |
| 490 | (smith-lemli-opitz\$ or dehydrocholesterol reductase deficien\$).ti,ab,kf. | 804 | | |
| 491 | Prader-Willi Syndrome/ | 2916 | | |
| 492 | (prader-willi\$ or pradar-willi\$).ti,ab,kf. | 3200 | | |
| 493 | Rubinstein-Taybi Syndrome/ | 490 | | |
| 494 | (rubinstein-taybi\$ or rubenstein-tabyii\$ or broad thumb-hallux).ti,ab,kf. | 616 | | |
| 495 | ((rubinstein\$ or rubenstein\$) adj2 (syndrome\$ or disease\$ or disorder\$)).ti,ab,kf. | 616 | | |
| 496 | Nephritis, Hereditary/ | 1980 | | |
| 497 | (alport\$ adj (syndrome\$ or disease\$ or disorder\$)).ti,ab,kf. | 1702 | | |
| 498 | (hereditary nephritis or h?emorrhagic familial nephritis).ti,ab,kf. | 326 | | |
| 499 | (hereditary deafness adj3 nephropath\$).ti,ab,kf. | 0 | | |
| 500 | (h?ematuria adj3 nephropath\$ adj3 deafness).ti,ab,kf. | 4 | | |
| 501 | Laurence-Moon Syndrome/ | 601 | | |
| 502 | laurence-moon\$.ti,ab,kf. | 489 | | |
| 503 | Bardet-Biedl Syndrome/ | 626 | | |
| 504 | (bardet-biedl\$ or biedl-bardet\$).ti,ab,kf. | 1050 | | |
| 505 | Zellweger Syndrome/ | 651 | | |
| 506 | zellweger\$.ti,ab,kf. | | | |
| 507 | ((cerebrohepatorenal or cerebro-hepato-renal) adj (syndrome\$ or disease\$ or disorder\$)).ti,ab,kf. | | | |
| 508 | (edward\$ adj (syndrome\$ or disease\$ or disorder\$)).ti,ab,kf. | 297 | | |
| 509 | "trisomy 18".ti,ab,kf. | | | |
| 510 | (patau\$ adj (syndrome\$ or disease\$ or disorder\$)).ti,ab,kf. | | | |
| 511 | ("trisomy 13" or "trisomy D").ti,ab,kf. | | | |
| | · · · · · | 1469 | | |

| 513 | "trisomy 9".ti,ab,kf. | 291 | | |
|-----|---|----------------|--|--|
| 514 | "trisomy 10".ti,ab,kf. | | | |
| 515 | duplication syndrome\$.ti,ab,kf. | 311 | | |
| 516 | (("chromosome 8" or "chr 8") adj5 duplicat\$).ti,ab,kf. | 43 | | |
| 517 | Chromosome Duplication/ | 820 | | |
| 518 | exp X Chromosome/ab [Abnormalities] | 1 | | |
| 519 | exp X Chromosome/ and duplicat\$.ti,ab,kf. | 954 | | |
| 520 | (("chromosome x" or "chr x") and duplicat\$).ti,ab,kf. | | | |
| 521 | (chromosom\$ abnormality adj5 duplicat\$).ti,ab,kf. | 15 | | |
| 522 | "tetrasomy 5p".ti,ab,kf. | 8 | | |
| 523 | (tetrasomy adj3 mosaic\$).ti,ab,kf. | 128 | | |
| | Chromosomes, Human, Pair 5/ and Mosaicism.mp. [mp=title, abstract, original | | | |
| 524 | title, name of substance word, subject heading word, keyword heading word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms] | 47 | | |
| 525 | Tetrasomy/ | 67 | | |
| 526 | Trisomy/ and (chromosomes, human, pair 9/ or chromosomes, human, pair 10/ or chromosomes, human, pair 13/ or Chromosomes, Human, Pair 18/ or chromosomes, human, pair 22/) | 3146 | | |
| 527 | Chromosome Deletion/ and Chromosomes, Human, Pair 4/ | 513 | | |
| 528 | (delet\$ adj5 short arm adj5 "chrom\$ 4").ti,ab,kf. | 86 | | |
| 529 | Wolf-Hirschhorn Syndrome/ | 135 | | |
| 530 | ((wolf-hirschhorn\$ or wolff hirschorn\$ or chromosome deletion dillan\$ or pitt- rogers-dank\$ or pitt\$) adj3 (syndrome\$ or disease\$ or disorder\$)).ti,ab,kf. | 693 | | |
| 531 | Cri-du-Chat Syndrome/ | 691 | | |
| 532 | ((cri du chat\$ or crying cat\$ or 5p or lejeune\$) adj3 (syndrome\$ or disease\$ or disorder\$)).ti,ab,kf. | 533 | | |
| 533 | Jacobsen Distal 11q Deletion Syndrome/ | 68 | | |
| 534 | ((jacobsen\$ or 11q deletion) adj5 (syndrome\$ or disease\$ or disorder\$)).ti,ab,kf. | 127 | | |
| 535 | exp Monosomy/ and Chromosomes, Human, Pair 9/ | 774 | | |
| 536 | (9p minus or 9p deletion).ti,ab,kf. | 111 | | |
| 537 | (alfi\$ adj (syndrome\$ or disease\$ or disorder\$)).ti,ab,kf. | 3 | | |
| 538 | (degouchy\$ or de gouchy\$ or degrouchy\$ or de grouchy\$).ti,ab,kf. | 13 | | |
| 539 | distal 18q.ti,ab,kf. | 17 | | |
| 540 | Hypoventilation/cn [Congenital] | 223 | | |
| 541 | (ondine\$ curse or congenital central hypoventilation or primary alveolar hypoventilation).ti,ab,kf. | 684 | | |
| 542 | Graft vs Host Disease/ and (Chronic Disease/ or chronic\$.ti,ab,kf.) | 7221 | | |
| 543 | (((graft vs host or graft versus host) adj (disease\$ or syndrome\$ or disorder)) and chronic\$).ti,ab,kf. | 7423 | | |
| 544 | exp HIV/ | 98462 | | |
| 545 | exp HIV Infections/ | 27992 | | |
| 546 | (HIV or human immunodeficiency virus\$).ti,ab,kf. | 293400 | | |
| 547 | (htlv or human t-lymphotropic virus\$ or human t cell lymphotropic virus\$).ti,ab,kf. | 13578 | | |
| 548 | (acquired immune deficiency syndrome\$ or acquired immunodeficiency syndrome\$).ti,ab,kf. | 24909 | | |
| 549 | (AIDS adj3 (virus\$ or infection\$)).ti,ab,kf. | | | |
| 550 | (AIDS adj (related or associated)).ti,ab,kf. | | | |
| 551 | exp Neoplasms/ | 9356 329098 | | |

| 552 | (cancer\$ or carcin\$ or tumor\$ or tumour\$ or neoplas\$ or adenocarcin\$ or oncol\$ or malignan\$).ti,ab,kf. | 2947882 | | |
|-----|--|---------|--|--|
| 553 | Cystic Fibrosis/ | 34771 | | |
| 554 | (cystic fibrosis or fibrocystic or fibro-cystic or mucoviscidosis or cf).ti,ab,kf. | 59866 | | |
| 555 | Cerebral Palsy/ | 19638 | | |
| 556 | (cerebr\$ adj3 pals\$).ti,ab,kf. | 19444 | | |
| 557 | Muscle Spasticity/ | 9059 | | |
| 558 | spasticit\$.ti,ab,kf. | 9624 | | |
| 559 | Quadriplegia/ | 8151 | | |
| 560 | (spastic\$ and (quadripleg\$ or tetrapleg\$)).ti,ab,kf. | 1159 | | |
| 561 | exp Renal Insufficiency/ | 166861 | | |
| 562 | ((kidney\$ or renal) adj3 (failure\$ or insufficienc\$)).ti,ab,kf. | 114282 | | |
| 563 | (end stage adj3 (kidney or renal)).ti,ab,kf. | 35463 | | |
| 564 | (("stage 5" or "stage V") adj3 (kidney or renal)).ti,ab,kf. | 448 | | |
| 565 | (ESRD or ESKD or ESRF or ESKF or CRF or CKF).ti,ab,kf. | 28165 | | |
| 566 | 1 or 2 or 3 or 4 or 5 or 6 | 3998038 | | |
| 567 | or/14-565 | | | |
| 568 | 13 and 566 and 567 | | | |
| 569 | 568 | | | |
| 570 | limit 569 to yr="2000 -Current" | | | |

Appendix 3: Systematic Review and Meta-Analysis - Data Extraction Form

| Article Information: | | | |
|---|--|--|--|
| Date of data extraction | | | |
| Article Title | | | |
| Article Author(s) | | | |
| Date of publication | | | |
| | | | |
| Study Characteristics: | | | |
| Study aim(s)/objective(s) | | | |
| Study design | | | |
| Country of study | | | |
| Recruitment procedures used | | | |
| Study inclusion/exclusion criteria | | | |
| | | | |
| Outcome Measures: | | | |
| Anxiety definition (scale used, self- | | | |
| /proxy-reported? cut-off point used) | | | |
| Depression definition (scale used, self- | | | |
| <pre>/proxy-reported? cut-off point used)</pre> | | | |
| | | | |
| Participant Characteristics: | | | |
| Sample size | | | |
| Age (range, mean, standard deviation) | | | |
| Sex (n, %) | | | |
| Ethnicity (n, %) | | | |
| LLC diagnosis | | | |
| | | | |
| Results: | | | |
| Anxiety prevalence/incidence | | | |
| Depression prevalence/incidence | | | |
| Conclusions: | | | |
| | | | |
| Key conclusions | | | |
| Limitations | | | |

Appendix 4: Systematic Review and Best Evidence Synthesis - Data Extraction Form

| Article Information: | |
|--|---|
| Date of data extraction | |
| Article Title | |
| Article Author(s) | |
| Date of publication | |
| | |
| Study Characteristics: | |
| Study aim(s)/objective(s) | |
| Study design | |
| Country of study | |
| Recruitment procedures used | |
| Study inclusion/exclusion criteria | |
| · · · · · | |
| Outcome Measures: | |
| Anxiety assessment tool | |
| Depression assessment tool | |
| | |
| Risk Factor Assessment Tools: | |
| Sociodemographic factors | |
| Clinical factors | |
| Other factors | |
| Participant Characteristics: | |
| Sample size | |
| Age (range, mean, standard deviation) | |
| Sex (n, %) | |
| Ethnicity (n, %) | |
| LLC diagnosis | |
| | |
| Anxiety Analysis Methods & Results: | |
| Sociodemographic factors | |
| Clinical factors | |
| Other factors | |
| | |
| Depression Analysis Methods & Results: | |
| Sociodemographic factors | |
| Clinical factors | |
| Other factors | |
| Conclusioner | |
| Conclusions: | |
| | 1 |
| Key conclusions Limitations | |

Appendix 5: Read Code and ICD-10 Code Lists – Life-Limiting Conditions

Read Codes

| Medcode | Read Code | Description |
|---------|-----------|--|
| 4673 | 0 | Encephalocele |
| 4796 | 0 | Motor neurone disease |
| 5431 | 0 | Spina bifida without mention of hydrocephalus |
| 6515 | 0 | Micrencephaly |
| 9722 | 0 | Meningomyelocele |
| 25282 | 0 | Meningocele - cranial |
| 27686 | 0 | Meningocele - cerebral |
| 28955 | 0 | Myotonia congenita (Thomsen's disease) |
| 36433 | 0 | Amyotrophic lateral sclerosis |
| 44592 | 0 | Cerebral degeneration other disease NOS |
| 44939 | 0 | Hydromyelia |
| 46128 | 0 | Flaccid tetraplegia |
| 48609 | 0 | Spina bifida without hydrocephalus - closed |
| 52130 | 0 | Meningoencephalocele |
| 52683 | 0 | Myelocele with hydrocephalus |
| 53929 | 0 | Spinal meningocele of unspecified site |
| 54714 | 0 | Congenital absence of brain |
| 55850 | 0 | Cardiomyopathy in disease EC |
| 56288 | 0 | Cerebral degenerations usually manifest in childhood |
| 56362 | 0 | Spina bifida with stenosis of aqueduct of Sylvius |
| 57611 | 0 | Meningomyelocele NOS |
| 58938 | 0 | Cardiomyopathy due to drugs and other external agents |
| 59956 | 0 | Childhood cerebral degenerations NOS |
| 62376 | 0 | Atresia of aorta |
| 65246 | 0 | Spina bifida without hydrocephalus - closed NOS |
| 65778 | 0 | Encephalocoele of orbit |
| 65935 | 0 | Asphyxiating thoracic dysplasia |
| 67351 | 0 | Cervical spinal meningocele |
| 67878 | 0 | Hydromyelocele |
| 68221 | 0 | Cervical spina bifida without mention of hydrocephalus |
| 72018 | 0 | Cervical spina bifida without hydrocephalus - closed |
| 73055 | 0 | Encephalocele NOS |
| 73608 | 0 | Spina bifida without hydrocephalus - open NOS |
| 73712 | 0 | Myelocele NOS |
| 91600 | 0 | Thoracic spinal meningocele |
| 93372 | 0 | Cerebral degeneration in diseases EC |
| 94486 | 0 | Chronic type 2 respiratory failure |
| 94598 | 0 | Cervical myelocele |
| 94793 | 0 | Chronic kidney disease stage 3 with proteinuria |
| 94946 | 0 | Chronic type 1 respiratory failure |
| 95122 | 0 | Chronic kidney disease stage 4 with proteinuria |

| Medcode | Read Code | Description |
|---------|-----------|--|
| 95123 | 0 | Chronic kidney disease stage 3 without proteinuria |
| 95145 | 0 | CKD stage 3 with proteinuria |
| 95175 | 0 | Chronic kidney disease stage 3A without proteinuria |
| 95176 | 0 | CKD stage 3A without proteinuria |
| 95177 | 0 | Chronic kidney disease stage 3B without proteinuria |
| 95178 | 0 | Chronic kidney disease stage 3B with proteinuria |
| 95179 | 0 | Chronic kidney disease stage 3B |
| 95180 | 0 | CKD stage 3B with proteinuria |
| 95188 | 0 | CKD stage 3 without proteinuria |
| 95405 | 0 | Chronic kidney disease stage 5 without proteinuria |
| 95406 | 0 | Chronic kidney disease stage 4 without proteinuria |
| 95408 | 0 | Chronic kidney disease stage 3A with proteinuria |
| 95478 | 0 | Thoracic spina bifida without hydrocephalus - open |
| 95508 | 0 | Chronic kidney disease stage 5 with proteinuria |
| 95571 | 0 | CKD stage 3A with proteinuria |
| 96709 | 0 | Thoracic spina bifida without mention of hydrocephalus |
| 96860 | 0 | Cerebral degeneration in Parkinson's disease |
| 97422 | 0 | Cerebral degeneration in other disease EC |
| 97587 | 0 | CKD stage 4 without proteinuria |
| 97683 | 0 | CKD stage 5 without proteinuria |
| 98020 | 0 | Cardiomyopathy in diseases EC, NOS |
| 99160 | 0 | CKD stage 5 with proteinuria |
| 99281 | 0 | Spina bifida without hydrocephalus - open |
| 99299 | 0 | Thoracic meningomyelocele |
| 99312 | 0 | CKD stage 4 with proteinuria |
| 99332 | 0 | Meningomyelocele of unspecified site |
| 100582 | 0 | Encephalocele of other specified site |
| 100633 | 0 | CKD stage 3B without proteinuria |
| 101013 | 0 | Spina bifida without hydrocephalus, site unspecified |
| 101312 | 0 | Hydroencephalocele |
| 102628 | 0 | Spina bifida with hydrocephalus of late onset |
| 103527 | 0 | Hydromeningocele - cranial |
| 104619 | 0 | Chronic kidney disease stage 3 |
| 104963 | 0 | Chronic kidney disease stage 4 |
| 105151 | 0 | Chronic kidney disease stage 5 |
| 107144 | 0 | Cervical meningomyelocele |
| 107377 | 0 | Cervical myelocystocele |
| 108773 | 0 | Cerebral degeneration in disease NOS |
| 109243 | 0 | Cervical spina bifida with hydrocephalus |
| 109657 | 0 | CKD with GFR category G3b & albuminuria category A2 |
| 109804 | 0 | CKD with GFR category G3a & albuminuria category A1 |
| 109805 | 0 | CKD with GFR category G3a & albuminuria category A2 |
| 109904 | 0 | CKD with GFR category G4 & albuminuria category A2 |
| 109905 | 0 | CKD with GFR category G3a & albuminuria category A3 |
| 109963 | 0 | CKD with GFR category G3b & albuminuria category A1 |

| Medcode | Read Code | Description |
|---------|-----------|--|
| 109980 | 0 | CKD with GFR category G4 & albuminuria category A1 |
| 109981 | 0 | CKD with GFR category G5 & albuminuria category A2 |
| 109990 | 0 | CKD with GFR category G3b & albuminuria category A3 |
| 110133 | 0 | CKD with GFR category G5 & albuminuria category A1 |
| 110467 | 0 | CKD with GFR category G5 & albuminuria category A3 |
| 110626 | 0 | CKD with GFR category G4 & albuminuria category A3 |
| 46733 | 0 | Beta major thalassaemia |
| 45151 | 0 | Thalassaemia major - Cooley's anaemia |
| 31405 | 0 | Thalassaemia major NEC |
| 16118 | 1 | Dystrophia myotonica (Steinert's disease) |
| 31775 | 1 | Myelocele |
| 94965 | 1 | Chronic kidney disease stage 3A |
| 21643 | 2 | Beta thalassaemia |
| 31663 | 2826 | O/E - salaam attack |
| 48991 | 5136 | X-ray metastasis control |
| 28355 | 7904 | Other correction of transposition of great vessels |
| 27475 | 13M3.00 | Sudden infant death |
| 8600 | 1D18.00 | Pain from metastases |
| 19692 | 1J02.00 | Suspected leukaemia |
| | | · |
| 19083 | 1J04.00 | Suspected lymphoma |
| 100035 | 1J0L.00 | Suspected malignant mesothelioma |
| 106858 | 1JW00 | Suspected cystic fibrosis |
| 14242 | 42D4.00 | RBC's - sickle cells present |
| 2835 | 43C3.11 | HIV positive |
| 32351 | 44a4.00 | Squamous cell carcinoma antigen level |
| 49341 | 4D56.00 | Pleural fluid: malignant cells |
| 13575 | 4F32.00 | Ascitic fluid: malignant cells |
| 70709 | 4L49.00 | Prion protein markers for Creutzfeldt-Jakob disease |
| 40991 | 4M200 | Lymphoma staging system |
| 60918 | 4M20.00 | Lymphoma stage I |
| 94935 | 4M21.00 | Lymphoma stage II |
| 32240 | 4M22.00 | Lymphoma stage III |
| 71672 | 4M23.00 | Lymphoma stage IV |
| 37793 | 4M400 | FIGO staging of gynaecological malignancy |
| 67248 | 5A12.00 | Thyroid tumour/metast irradiat |
| 62951 | 5A15.00 | Bone tumour/metast.irradiat. |
| 100430 | 66k00 | Cystic fibrosis monitoring |
| 64470 | 7904y00 | Other correction of transposition of great vessels OS |
| 38411 | 7904z00 | Other correction of transposition of great vessels NOS |
| 108021 | 790Jz00 | Other repair of transposition of great arteries NOS |
| 96637 | 790M400 | Biventricular repair of hypoplastic left heart syndrome |
| 48697 | 7A65000 | Transposition of valve of vein |
| 30283 | 7B2C700 | Intravesical install chemotherapeutic agent for malignancy |
| 18270 | 7G03K00 | Excision malignant skin tumour |
| 20699 | 7H19500 | Closure of gastrochisis |

| Medcode | Read Code | Description |
|---------|-----------|--|
| 11773 | 7L1A.11 | Dialysis for renal failure |
| 38286 | A411.00 | Jakob-Creutzfeldt disease |
| 109288 | A411000 | Sporadic Creutzfeldt-Jakob disease |
| 52677 | A412.00 | Subacute sclerosing panencephalitis |
| 46110 | A7512 | Pfeiffer's disease |
| 25657 | A752.00 | Pfeiffer's disease |
| 69766 | A788200 | HIV infection with persistent generalised lymphadenopathy |
| 67575 | A788W00 | HIV disease resulting in unspecified malignant neoplasm |
| 71450 | A788X00 | HIV disease resulting/unspcf infectious+parasitic disease |
| 37006 | A789000 | HIV disease resulting in mycobacterial infection |
| 66368 | A789100 | HIV disease resulting in cytomegaloviral disease |
| 23951 | A789200 | HIV disease resulting in candidiasis |
| 27641 | A789300 | HIV disease resulting in Pneumocystis carinii pneumonia |
| 104717 | A789311 | HIV disease resulting in Pneumocystis jirovecii pneumonia |
| 50076 | A789400 | HIV disease resulting in multiple infections |
| 27853 | A789500 | HIV disease resulting in Kaposi's sarcoma |
| 108054 | A789511 | HIV disease resulting in Kaposi sarcoma |
| 44617 | A789600 | HIV disease resulting in Burkitt's lymphoma |
| 66367 | A789700 | HIV dis resulting oth types of non-Hodgkin's lymphoma |
| 105324 | A789800 | HIV disease resulting in multiple malignant neoplasms |
| 65117 | A789900 | HIV disease resulting in lymphoid interstitial pneumonitis |
| 8281 | A789A00 | HIV disease resulting in wasting syndrome |
| 51708 | A789X00 | HIV dis reslt/oth mal neopl/lymph,h'matopoetc+reltd tissu |
| 107807 | AyuC100 | [X]HIV disease resulting in other viral infections |
| 102117 | AyuC300 | [X]HIV disease resulting in multiple infections |
| 104134 | AyuC400 | [X]HIV disease resulting/other infectious+parasitic diseases |
| 69767 | AyuC600 | [X]HIV disease resulting in other non-Hodgkin's lymphoma |
| 96751 | AyuCB00 | [X]HIV disease result/haematological+immunologic abnorms,NEC |
| 102252 | AyuCC00 | [X]HIV disease resulting in other specified conditions |
| 2755 | B11 | Cancers |
| 19415 | B000 | Malignant neoplasm of lip, oral cavity and pharynx |
| 24374 | B011 | Carcinoma of lip, oral cavity and pharynx |
| 14712 | B0000 | Malignant neoplasm of lip |
| 9984 | B0011 | Carcinoma of lip |
| 73962 | B000.00 | Malignant neoplasm of upper lip, vermilion border |
| 66270 | B000000 | Malignant neoplasm of upper lip, external |
| 50296 | B000100 | Malignant neoplasm of upper lip, lipstick area |
| 98740 | B000z00 | Malignant neoplasm of upper lip, vermilion border NOS |
| 67446 | B001.00 | Malignant neoplasm of lower lip, vermilion border |
| 66384 | B001000 | Malignant neoplasm of lower lip, external |
| 95480 | B001100 | Malignant neoplasm of lower lip, lipstick area |
| 101707 | B001z00 | Malignant neoplasm of lower lip, vermilion border NOS |
| 99493 | B002.00 | Malignant neoplasm of upper lip, inner aspect |
| 111289 | B002000 | Malignant neoplasm of upper lip, buccal aspect |
| 99001 | B002100 | Malignant neoplasm of upper lip, frenulum |

| Medcode | Read Code | Description |
|---------|-----------|--|
| 98500 | B002200 | Malignant neoplasm of upper lip, mucosa |
| 90610 | B002300 | Malignant neoplasm of upper lip, oral aspect |
| 100721 | B002z00 | Malignant neoplasm of upper lip, inner aspect NOS |
| 71147 | B003.00 | Malignant neoplasm of lower lip, inner aspect |
| 67504 | B003000 | Malignant neoplasm of lower lip, buccal aspect |
| 91843 | B003100 | Malignant neoplasm of lower lip, frenulum |
| 89909 | B003200 | Malignant neoplasm of lower lip, mucosa |
| 94441 | B003300 | Malignant neoplasm of lower lip, oral aspect |
| 96782 | B003z00 | Malignant neoplasm of lower lip, inner aspect NOS |
| 61692 | B004.00 | Malignant neoplasm of lip unspecified, inner aspect |
| 73614 | B004000 | Malignant neoplasm of lip unspecified, buccal aspect |
| 68399 | B004200 | Malignant neoplasm of lip unspecified, mucosa |
| 100144 | B004300 | Malignant neoplasm of lip, oral aspect |
| 96783 | B005.00 | Malignant neoplasm of commissure of lip |
| 18882 | B006.00 | Malignant neoplasm of overlapping lesion of lip |
| 37553 | B007.00 | Malignant neoplasm of lip, unspecified |
| 100906 | B00z000 | Malignant neoplasm of lip, unspecified, external |
| 94251 | B00z100 | Malignant neoplasm of lip, unspecified, lipstick area |
| 69761 | B00zz00 | Malignant neoplasm of lip, vermilion border NOS |
| 10283 | B0100 | Malignant neoplasm of tongue |
| 43431 | B010.00 | Malignant neoplasm of base of tongue |
| 69671 | B010.11 | Malignant neoplasm of posterior third of tongue |
| 34409 | B010000 | Malignant neoplasm of base of tongue dorsal surface |
| 91035 | B010z00 | Malignant neoplasm of fixed part of tongue NOS |
| 43642 | B011.00 | Malignant neoplasm of dorsal surface of tongue |
| 107258 | B011100 | Malignant neoplasm of midline of tongue |
| 43781 | B011z00 | Malignant neoplasm of dorsum of tongue NOS |
| 36161 | B012.00 | Malignant neoplasm of tongue, tip and lateral border |
| 62840 | B013.00 | Malignant neoplasm of ventral surface of tongue |
| 102142 | B013000 | Malignant neoplasm of anterior 2/3 of tongue ventral surface |
| 63979 | B013100 | Malignant neoplasm of frenulum linguae |
| 38488 | B013z00 | Malignant neoplasm of ventral tongue surface NOS |
| 58121 | B014.00 | Malignant neoplasm of anterior 2/3 of tongue unspecified |
| 37096 | B015.00 | Malignant neoplasm of tongue, junctional zone |
| 24852 | B016.00 | Malignant neoplasm of lingual tonsil |
| 47205 | B017.00 | Malignant overlapping lesion of tongue |
| 41530 | B01y.00 | Malignant neoplasm of other sites of tongue |
| 40557 | B01z.00 | Malignant neoplasm of tongue NOS |
| 20292 | B0200 | Malignant neoplasm of major salivary glands |
| 4388 | B020.00 | Malignant neoplasm of parotid gland |
| 51786 | B021.00 | Malignant neoplasm of submandibular gland |
| 70928 | B022.00 | Malignant neoplasm of sublingual gland |
| 70696 | B02y.00 | Malignant neoplasm of other major salivary glands |
| 50475 | B02z.00 | Malignant neoplasm of major salivary gland NOS |
| 43400 | B0300 | Malignant neoplasm of gum |

| Medcode | Read Code | Description |
|---------|--------------|--|
| 32024 | B030.00 | Malignant neoplasm of upper gum |
| 49360 | B031.00 | Malignant neoplasm of lower gum |
| 101753 | B03y.00 | Malignant neoplasm of other sites of gum |
| 93218 | B03z.00 | Malignant neoplasm of gum NOS |
| 20092 | B0400 | Malignant neoplasm of floor of mouth |
| 45408 | B040.00 | Malignant neoplasm of anterior portion of floor of mouth |
| 45986 | B041.00 | Malignant neoplasm of lateral portion of floor of mouth |
| 17912 | B042.00 | Malignant neoplasm, overlapping lesion of floor of mouth |
| 56709 | B04y.00 | Malignant neoplasm of other sites of floor of mouth |
| 36716 | , B04z.00 | Malignant neoplasm of floor of mouth NOS |
| 14792 | B0500 | Malignant neoplasm of other and unspecified parts of mouth |
| 31364 | B050.00 | Malignant neoplasm of cheek mucosa |
| 30402 | B050.11 | Malignant neoplasm of buccal mucosa |
| 103796 | B051.00 | Malignant neoplasm of vestibule of mouth |
| 95772 | B051000 | Malignant neoplasm of upper buccal sulcus |
| 97530 | B051100 | Malignant neoplasm of lower buccal sulcus |
| 37590 | B052.00 | Malignant neoplasm of hard palate |
| 40292 | B053.00 | Malignant neoplasm of soft palate |
| 37516 | B054.00 | Malignant neoplasm of uvula |
| 70819 | B055.00 | Malignant neoplasm of palate unspecified |
| 96003 | B055000 | Malignant neoplasm of junction of hard and soft palate |
| 69951 | B055100 | Malignant neoplasm of roof of mouth |
| 28559 | B055z00 | Malignant neoplasm of palate NOS |
| 37724 | B056.00 | Malignant neoplasm of retromolar area |
| 37916 | B05y.00 | Malignant neoplasm of other specified mouth parts |
| 55015 | B05z.00 | Malignant neoplasm of mouth NOS |
| 37549 | B05z000 | Kaposi's sarcoma of palate |
| 22893 | B0600 | Malignant neoplasm of oropharynx |
| 16241 | B060.00 | Malignant neoplasm of tonsil |
| 26448 | B060000 | Malignant neoplasm of faucial tonsil |
| 101988 | B060100 | Malignant neoplasm of palatine tonsil |
| 102151 | B060200 | Malignant neoplasm of overlapping lesion of tonsil |
| 53884 | B060z00 | Malignant neoplasm tonsil NOS |
| 24397 | B061.00 | Malignant neoplasm of tonsillar fossa |
| 55066 | B062.00 | Malignant neoplasm of tonsillar pillar |
| 51926 | B062000 | Malignant neoplasm of faucial pillar |
| 99185 | B062100 | Malignant neoplasm of glossopalatine fold |
| 61510 | B062200 | Malignant neoplasm of palatoglossal arch |
| 93842 | B062300 | Malignant neoplasm of palatopharyngeal arch |
| 100002 | B062z00 | Malignant neoplasm of tonsillar fossa NOS |
| 39554 | B063.00 | Malignant neoplasm of vallecula |
| 46728 | B064.00 | Malignant neoplasm of anterior epiglottis |
| 26134 | B064000 | Malignant neoplasm of epiglottis, free border |
| 91895 | B064100 | Malignant neoplasm of glossoepiglottic fold |
| 73439 | B064z00 | Malignant neoplasm of anterior epiglottis NOS |
| 13433 | 5004200 | |

| Medcode | Read Code | Description |
|---------|-----------|--|
| 48519 | B065.00 | Malignant neoplasm of junctional region of epiglottis |
| 56355 | B066.00 | Malignant neoplasm of lateral wall of oropharynx |
| 90124 | B067.00 | Malignant neoplasm of posterior wall of oropharynx |
| 67323 | B06y.00 | Malignant neoplasm of oropharynx, other specified sites |
| 91037 | B06yz00 | Malignant neoplasm of other specified site of oropharynx NOS |
| 43200 | B06z.00 | Malignant neoplasm of oropharynx NOS |
| 24675 | B0700 | Malignant neoplasm of nasopharynx |
| 94390 | B070.00 | Malignant neoplasm of roof of nasopharynx |
| 95429 | B071.00 | Malignant neoplasm of posterior wall of nasopharynx |
| 33388 | B071000 | Malignant neoplasm of adenoid |
| 46548 | B071100 | Malignant neoplasm of pharyngeal tonsil |
| 96869 | B071z00 | Malignant neoplasm of posterior wall of nasopharynx NOS |
| 59004 | B072.00 | Malignant neoplasm of lateral wall of nasopharynx |
| 37940 | B072000 | Malignant neoplasm of pharyngeal recess |
| 102205 | B072z00 | Malignant neoplasm of lateral wall of nasopharynx NOS |
| 44139 | B073.00 | Malignant neoplasm of anterior wall of nasopharynx |
| 106915 | B073100 | Malignant neoplasm of nasopharyngeal soft palate surface |
| 99386 | B073200 | Malignant neoplasm posterior margin nasal septum and choanae |
| 100918 | B073z00 | Malignant neoplasm of anterior wall of nasopharynx NOS |
| 66422 | B073200 | Malignant neoplasm, overlapping lesion of nasopharynx |
| 55630 | B07y.00 | Malignant neoplasm of other specified site of nasopharynx |
| 28665 | B07z.00 | Malignant neoplasm of oaner speemed site of hasopharynx Malignant neoplasm of nasopharynx NOS |
| 34012 | B0800 | Malignant neoplasm of hypopharynx |
| 43548 | B080.00 | Malignant neoplasm of postcricoid region |
| 39897 | B081.00 | Malignant neoplasm of pyriform sinus |
| 57248 | B082.00 | Malignant neoplasm aryepiglottic fold, hypopharyngeal aspect |
| 64462 | B083.00 | Malignant neoplasm of posterior pharynx |
| 88362 | B08y.00 | Malignant neoplasm of other specified hypopharyngeal site |
| 28451 | B08z.00 | Malignant neoplasm of hypopharynx NOS |
| 16297 | B0z0.00 | Malignant neoplasm of pharynx unspecified |
| 95016 | B0z1.00 | Malignant neoplasm of Waldeyer's ring |
| 39084 | B0z2.00 | Malignant neoplasm of laryngopharynx |
| 49758 | B0zy.00 | Malignant neoplasm of other sites lip, oral cavity, pharynx |
| 39430 | B0zz.00 | Malignant neoplasm of lip, oral cavity and pharynx NOS |
| 15709 | B100 | Malignant neoplasm of digestive organs and peritoneum |
| 3357 | B111 | Carcinoma of digestive organs and peritoneum |
| 1062 | B1000 | Malignant neoplasm of oesophagus |
| 61695 | B100.00 | Malignant neoplasm of cervical oesophagus |
| 41362 | B101.00 | Malignant neoplasm of thoracic oesophagus |
| 63470 | B102.00 | Malignant neoplasm of abdominal oesophagus |
| 50789 | B103.00 | Malignant neoplasm of upper third of oesophagus |
| 54171 | B103.00 | Malignant neoplasm of middle third of oesophagus |
| 42416 | B105.00 | Malignant neoplasm of lower third of oesophagus |
| 67497 | B105.00 | Malignant neoplasm or lower third of oesophagus |
| 98142 | B107.00 | Siewert type I adenocarcinoma |
| J0142 | 0101.00 | Sewert type i adenotartinoma |

| Medcode | Read Code | Description |
|---------|-----------|--|
| 53591 | B10y.00 | Malignant neoplasm of other specified part of oesophagus |
| 30700 | B10z.00 | Malignant neoplasm of oesophagus NOS |
| 4865 | B10z.11 | Oesophageal cancer |
| 8386 | B1100 | Malignant neoplasm of stomach |
| 10368 | B1111 | Gastric neoplasm |
| 32022 | B110.00 | Malignant neoplasm of cardia of stomach |
| 100584 | B110000 | Malignant neoplasm of cardiac orifice of stomach |
| 22894 | B110100 | Malignant neoplasm of cardio-oesophageal junction of stomach |
| 94278 | B110111 | Malignant neoplasm of gastro-oesophageal junction |
| 37859 | B110z00 | Malignant neoplasm of cardia of stomach NOS |
| 21620 | B111.00 | Malignant neoplasm of pylorus of stomach |
| 48237 | B111000 | Malignant neoplasm of prepylorus of stomach |
| 41215 | B111100 | Malignant neoplasm of pyloric canal of stomach |
| 59092 | B111z00 | Malignant neoplasm of pylorus of stomach NOS |
| 19318 | B112.00 | Malignant neoplasm of pyloric antrum of stomach |
| 32362 | B113.00 | Malignant neoplasm of fundus of stomach |
| 43572 | B114.00 | Malignant neoplasm of body of stomach |
| 42193 | B115.00 | Malignant neoplasm of lesser curve of stomach unspecified |
| 55434 | B116.00 | Malignant neoplasm of greater curve of stomach unspecified |
| 51690 | B117.00 | Malignant neoplasm, overlapping lesion of stomach |
| 97499 | B118.00 | Siewert type II adenocarcinoma |
| 96094 | B119.00 | Siewert type III adenocarcinoma |
| 55019 | B11y.00 | Malignant neoplasm of other specified site of stomach |
| 65312 | B11y000 | Malignant neoplasm of anterior wall of stomach NEC |
| 96802 | B11y100 | Malignant neoplasm of posterior wall of stomach NEC |
| 65372 | B11yz00 | Malignant neoplasm of other specified site of stomach NOS |
| 14800 | B11z.00 | Malignant neoplasm of stomach NOS |
| 6806 | B1200 | Malignant neoplasm of small intestine and duodenum |
| 18613 | B120.00 | Malignant neoplasm of duodenum |
| 43479 | B121.00 | Malignant neoplasm of jejunum |
| 33871 | B122.00 | Malignant neoplasm of ileum |
| 63995 | B123.00 | Malignant neoplasm of Meckel's diverticulum |
| 66166 | B124.00 | Malignant neoplasm, overlapping lesion of small intestine |
| 99896 | B12y.00 | Malignant neoplasm of other specified site small intestine |
| 43390 | B12z.00 | Malignant neoplasm of small intestine NOS |
| 1220 | B1300 | Malignant neoplasm of colon |
| 9088 | B130.00 | Malignant neoplasm of hepatic flexure of colon |
| 6935 | B131.00 | Malignant neoplasm of transverse colon |
| 10864 | B132.00 | Malignant neoplasm of descending colon |
| 2815 | B133.00 | Malignant neoplasm of sigmoid colon |
| 3811 | B134.00 | Malignant neoplasm of caecum |
| 22163 | B134.11 | Carcinoma of caecum |
| 18632 | B135.00 | Malignant neoplasm of appendix |
| 10946 | B136.00 | Malignant neoplasm of ascending colon |
| 18619 | B137.00 | Malignant neoplasm of splenic flexure of colon |

| Medcode | Read Code | Description |
|---------|-----------|---|
| 93478 | B138.00 | Malignant neoplasm, overlapping lesion of colon |
| 48231 | B13y.00 | Malignant neoplasm of other specified sites of colon |
| 28163 | B13z.00 | Malignant neoplasm of colon NOS |
| 9118 | B13z.11 | Colonic cancer |
| 35357 | B1400 | Malignant neoplasm of rectum, rectosigmoid junction and anus |
| 27855 | B140.00 | Malignant neoplasm of rectosigmoid junction |
| 1800 | B141.00 | Malignant neoplasm of rectum |
| 7219 | B141.11 | Carcinoma of rectum |
| 5901 | B141.12 | Rectal carcinoma |
| 24370 | B142.00 | Malignant neoplasm of anal canal |
| 9491 | B142.11 | Anal carcinoma |
| 46159 | B142000 | Malignant neoplasm of cloacogenic zone |
| 27897 | B143.00 | Malignant neoplasm of anus unspecified |
| 50974 | B14z.00 | Malignant neoplasm rectum, rectosigmoid junction and anus NOS |
| 8918 | B1500 | Malignant neoplasm of liver and intrahepatic bile ducts |
| 25535 | B150.00 | Primary malignant neoplasm of liver |
| 16126 | B150000 | Primary carcinoma of liver |
| 31210 | B150100 | Hepatoblastoma of liver |
| 68410 | B150200 | Primary angiosarcoma of liver |
| 22187 | B150300 | Hepatocellular carcinoma |
| 44399 | B150z00 | Primary malignant neoplasm of liver NOS |
| 16915 | B151.00 | Malignant neoplasm of intrahepatic bile ducts |
| 65124 | B151000 | Malignant neoplasm of interlobular bile ducts |
| 110775 | B151100 | Malignant neoplasm of interlobular biliary canals |
| 89593 | B151200 | Malignant neoplasm of intrahepatic biliary passages |
| 58088 | B151400 | Malignant neoplasm of intrahepatic gall duct |
| 61643 | B151z00 | Malignant neoplasm of intrahepatic bile ducts NOS |
| 26393 | B152.00 | Malignant neoplasm of liver unspecified |
| 36147 | B153.00 | Secondary malignant neoplasm of liver |
| 38978 | B15z.00 | Malignant neoplasm of liver and intrahepatic bile ducts NOS |
| 54103 | B1600 | Malignant neoplasm gallbladder and extrahepatic bile ducts |
| 16105 | B160.00 | Malignant neoplasm of gallbladder |
| 31393 | B160.11 | Carcinoma gallbladder |
| 23433 | B161.00 | Malignant neoplasm of extrahepatic bile ducts |
| 72445 | B161000 | Malignant neoplasm of cystic duct |
| 52537 | B161100 | Malignant neoplasm of hepatic duct |
| 7982 | B161200 | Malignant neoplasm of common bile duct |
| 36495 | B161211 | Carcinoma common bile duct |
| 105613 | B161300 | Malignant neoplasm of sphincter of Oddi |
| 74896 | B161z00 | Malignant neoplasm of extrahepatic bile ducts NOS |
| 10949 | B162.00 | Malignant neoplasm of ampulla of Vater |
| 35039 | B163.00 | Malignant neoplasm, overlapping lesion of biliary tract |
| 60312 | B16y.00 | Malignant neoplasm other gallbladder/extrahepatic bile duct |
| 15907 | B16z.00 | Malignant neoplasm gallbladder/extrahepatic bile ducts NOS |
| 8166 | B1700 | Malignant neoplasm of pancreas |

| Medcode | Read Code | Description |
|---------|-----------|--|
| 8771 | B170.00 | Malignant neoplasm of head of pancreas |
| 40810 | B171.00 | Malignant neoplasm of body of pancreas |
| 39870 | B172.00 | Malignant neoplasm of tail of pancreas |
| 35535 | B173.00 | Malignant neoplasm of pancreatic duct |
| 35795 | B174.00 | Malignant neoplasm of Islets of Langerhans |
| 97875 | B175.00 | Malignant neoplasm, overlapping lesion of pancreas |
| 48537 | B17y.00 | Malignant neoplasm of other specified sites of pancreas |
| 96635 | B17y000 | Malignant neoplasm of ectopic pancreatic tissue |
| 95783 | B17yz00 | Malignant neoplasm of specified site of pancreas NOS |
| 34388 | B17z.00 | Malignant neoplasm of pancreas NOS |
| 44108 | B1800 | Malignant neoplasm of retroperitoneum and peritoneum |
| 21330 | B180.00 | Malignant neoplasm of retroperitoneum |
| 65159 | B180100 | Malignant neoplasm of perinephric tissue |
| 24048 | B180200 | Malignant neoplasm of retrocaecal tissue |
| 61555 | B180z00 | Malignant neoplasm of retroperitoneum NOS |
| 17874 | B181.00 | Mesothelioma of peritoneum |
| 46613 | B18y.00 | Malignant neoplasm of specified parts of peritoneum |
| 59388 | B18y100 | Malignant neoplasm of mesocaecum |
| 30165 | B18y200 | Malignant neoplasm of mesorectum |
| 50898 | B18y300 | Malignant neoplasm of omentum |
| 64516 | B18y400 | Malignant neoplasm of parietal peritoneum |
| 39413 | B18y500 | Malignant neoplasm of pelvic peritoneum |
| 69821 | B18y600 | Malignant neoplasm of the pouch of Douglas |
| 90290 | B18y700 | Malignant neoplasm of mesentery |
| 64106 | B18yz00 | Malignant neoplasm of specified parts of peritoneum NOS |
| 16298 | B18z.00 | Malignant neoplasm of retroperitoneum and peritoneum NOS |
| 17559 | B1z0.00 | Malignant neoplasm of intestinal tract, part unspecified |
| 11628 | B1z0.11 | Cancer of bowel |
| 65460 | B1z1.00 | Malignant neoplasm of spleen NEC |
| 108667 | B1z1000 | Angiosarcoma of spleen |
| 72224 | B1z1100 | Fibrosarcoma of spleen |
| 93778 | B1z1z00 | Malignant neoplasm of spleen NOS |
| 94776 | B1z2.00 | Malignant neoplasm, overlapping lesion of digestive system |
| 56918 | B1zy.00 | Malignant neoplasm other spec digestive tract and peritoneum |
| 51255 | B1zz.00 | Malignant neoplasm of digestive tract and peritoneum NOS |
| 45307 | B211 | Carcinoma of respiratory tract and intrathoracic organs |
| 23389 | B200.00 | Malignant neoplasm of nasal cavities |
| 71204 | B200000 | Malignant neoplasm of cartilage of nose |
| 98911 | B200100 | Malignant neoplasm of nasal conchae |
| 62761 | B200200 | Malignant neoplasm of septum of nose |
| 62182 | B200300 | Malignant neoplasm of vestibule of nose |
| 42856 | B200z00 | Malignant neoplasm of nasal cavities NOS |
| 107916 | B201000 | Malignant neoplasm of auditory (Eustachian) tube |
| 98537 | B201100 | Malignant neoplasm of tympanic cavity |
| 54613 | B201200 | Malignant neoplasm of tympanic antrum |

| Medcode | Read Code | Description |
|---------|-----------|---|
| 71946 | B201300 | Malignant neoplasm of mastoid air cells |
| 32174 | B202.00 | Malignant neoplasm of maxillary sinus |
| 54636 | B203.00 | Malignant neoplasm of ethmoid sinus |
| 15684 | B204.00 | Malignant neoplasm of frontal sinus |
| 65215 | B205.00 | Malignant neoplasm of sphenoidal sinus |
| 39590 | B206.00 | Malignant neoplasm, overlapping lesion of accessory sinuses |
| 55246 | B20z.00 | Malignant neoplasm of accessory sinus NOS |
| 319 | B2100 | Malignant neoplasm of larynx |
| 318 | B210.00 | Malignant neoplasm of glottis |
| 26165 | B211.00 | Malignant neoplasm of supraglottis |
| 22441 | B212.00 | Malignant neoplasm of subglottis |
| 43111 | B213.00 | Malignant neoplasm of laryngeal cartilage |
| 63460 | B213000 | Malignant neoplasm of arytenoid cartilage |
| 37805 | B213100 | Malignant neoplasm of cricoid cartilage |
| 107878 | B213200 | Malignant neoplasm of cuneiform cartilage |
| 47862 | B213300 | Malignant neoplasm of thyroid cartilage |
| 97332 | B213z00 | Malignant neoplasm of laryngeal cartilage NOS |
| 50579 | B214.00 | Malignant neoplasm, overlapping lesion of larynx |
| 55374 | B215.00 | Malignant neoplasm of epiglottis NOS |
| 26813 | B21y.00 | Malignant neoplasm of larynx, other specified site |
| 9237 | B21z.00 | Malignant neoplasm of larynx NOS |
| 13243 | B2200 | Malignant neoplasm of trachea, bronchus and lung |
| 15221 | B220.00 | Malignant neoplasm of trachea |
| 103946 | B220100 | Malignant neoplasm of mucosa of trachea |
| 37810 | B220z00 | Malignant neoplasm of trachea NOS |
| 12870 | B221.00 | Malignant neoplasm of main bronchus |
| 17391 | B221000 | Malignant neoplasm of carina of bronchus |
| 33444 | B221100 | Malignant neoplasm of hilus of lung |
| 21698 | B221z00 | Malignant neoplasm of main bronchus NOS |
| 10358 | B222.00 | Malignant neoplasm of upper lobe, bronchus or lung |
| 31700 | B222000 | Malignant neoplasm of upper lobe bronchus |
| 25886 | B222100 | Malignant neoplasm of upper lobe of lung |
| 44169 | B222z00 | Malignant neoplasm of upper lobe, bronchus or lung NOS |
| 31268 | B223.00 | Malignant neoplasm of middle lobe, bronchus or lung |
| 41523 | B223000 | Malignant neoplasm of middle lobe bronchus |
| 39923 | B223100 | Malignant neoplasm of middle lobe of lung |
| 54134 | B223z00 | Malignant neoplasm of middle lobe, bronchus or lung NOS |
| 31188 | B224.00 | Malignant neoplasm of lower lobe, bronchus or lung |
| 18678 | B224000 | Malignant neoplasm of lower lobe bronchus |
| 12582 | B224100 | Malignant neoplasm of lower lobe of lung |
| 42566 | B224z00 | Malignant neoplasm of lower lobe, bronchus or lung NOS |
| 36371 | B225.00 | Malignant neoplasm of overlapping lesion of bronchus & lung |
| 7484 | B226.00 | Mesothelioma |
| 38961 | B22y.00 | Malignant neoplasm of other sites of bronchus or lung |
| 3903 | B22z.00 | Malignant neoplasm of bronchus or lung NOS |

| Medcode | Read Code | Description |
|---------|-----------|---|
| 2587 | B22z.11 | Lung cancer |
| 31573 | B2300 | Malignant neoplasm of pleura |
| 67107 | B230.00 | Malignant neoplasm of parietal pleura |
| 106194 | B231.00 | Malignant neoplasm of visceral pleura |
| 9600 | B232.00 | Mesothelioma of pleura |
| 98104 | B23y.00 | Malignant neoplasm of other specified pleura |
| 34742 | B23z.00 | Malignant neoplasm of pleura NOS |
| 62556 | B2400 | Malignant neoplasm of thymus, heart and mediastinum |
| 27483 | B240.00 | Malignant neoplasm of thymus |
| 95644 | B241.00 | Malignant neoplasm of heart |
| 63430 | B241000 | Malignant neoplasm of endocardium |
| 65605 | B241200 | Malignant neoplasm of myocardium |
| 94975 | B241300 | Malignant neoplasm of pericardium |
| 101885 | B241400 | Mesothelioma of pericardium |
| 50289 | B241z00 | Malignant neoplasm of heart NOS |
| 27715 | B242.00 | Malignant neoplasm of anterior mediastinum |
| 92720 | B243.00 | Malignant neoplasm of posterior mediastinum |
| 61064 | B24X.00 | Malignant neoplasm of mediastinum, part unspecified |
| 66750 | B24z.00 | Malignant neoplasm of heart, thymus and mediastinum NOS |
| 66646 | B2600 | Malignant neoplasm, overlap lesion of resp & intrathor orgs |
| 29283 | B2zy.00 | Malignant neoplasm of other site of respiratory tract |
| 42569 | B2zz.00 | Malignant neoplasm of respiratory tract NOS |
| 9902 | B311 | Carcinoma of bone, connective tissue, skin and breast |
| 12539 | B312 | Sarcoma of bone and connective tissue |
| 18314 | B3000 | Malignant neoplasm of bone and articular cartilage |
| 59036 | B300.00 | Malignant neoplasm of bones of skull and face |
| 53594 | B300000 | Malignant neoplasm of ethmoid bone |
| 53599 | B300100 | Malignant neoplasm of frontal bone |
| 59520 | B300200 | Malignant neoplasm of malar bone |
| 95458 | B300300 | Malignant neoplasm of nasal bone |
| 55953 | B300400 | Malignant neoplasm of occipital bone |
| 50298 | B300500 | Malignant neoplasm of orbital bone |
| 54747 | B300600 | Malignant neoplasm of parietal bone |
| 55595 | B300700 | Malignant neoplasm of sphenoid bone |
| 62104 | B300800 | Malignant neoplasm of temporal bone |
| 50299 | B300900 | Malignant neoplasm of zygomatic bone |
| 17475 | B300A00 | Malignant neoplasm of maxilla |
| 96445 | B300B00 | Malignant neoplasm of turbinate |
| 44452 | B300C00 | Malignant neoplasm of vomer |
| 69146 | B300z00 | Malignant neoplasm of bones of skull and face NOS |
| 33833 | B301.00 | Malignant neoplasm of mandible |
| 16704 | B302.00 | Malignant neoplasm of vertebral column |
| 46939 | B302000 | Malignant neoplasm of cervical vertebra |
| 32372 | B302100 | Malignant neoplasm of thoracic vertebra |
| 54691 | B302200 | Malignant neoplasm of lumbar vertebra |

| Medcode | Read Code | Description |
|---------|-----------|---|
| 49701 | B302z00 | Malignant neoplasm of vertebral column NOS |
| 27528 | B303.00 | Malignant neoplasm of ribs, sternum and clavicle |
| 37842 | B303000 | Malignant neoplasm of rib |
| 49491 | B303100 | Malignant neoplasm of sternum |
| 66639 | B303200 | Malignant neoplasm of clavicle |
| 60403 | B303300 | Malignant neoplasm of costal cartilage |
| 67763 | B303400 | Malignant neoplasm of costo-vertebral joint |
| 54493 | B303500 | Malignant neoplasm of xiphoid process |
| 51237 | B303z00 | Malignant neoplasm of rib, sternum and clavicle NOS |
| 71810 | B304.00 | Malignant neoplasm of scapula and long bones of upper arm |
| 49054 | B304000 | Malignant neoplasm of scapula |
| 105797 | B304100 | Malignant neoplasm of acromion |
| 61741 | B304200 | Malignant neoplasm of humerus |
| 92371 | B304300 | Malignant neoplasm of radius |
| 64848 | B304400 | Malignant neoplasm of ulna |
| 73530 | B305.00 | Malignant neoplasm of hand bones |
| 106069 | B305.11 | Malignant neoplasm of carpal bones |
| 72464 | B305.12 | Malignant neoplasm of metacarpal bones |
| 57988 | B305000 | Malignant neoplasm of carpal bone - scaphoid |
| 69104 | B305100 | Malignant neoplasm of carpal bone - lunate |
| 110993 | B305800 | Malignant neoplasm of first metacarpal bone |
| 108638 | B305A00 | Malignant neoplasm of third metacarpal bone |
| 94427 | B305C00 | Malignant neoplasm of fifth metacarpal bone |
| 86812 | B305D00 | Malignant neoplasm of phalanges of hand |
| 73556 | B305z00 | Malignant neoplasm of hand bones NOS |
| 54631 | B306.00 | Malignant neoplasm of pelvic bones, sacrum and coccyx |
| 44609 | B306000 | Malignant neoplasm of ilium |
| 59223 | B306100 | Malignant neoplasm of ischium |
| 51921 | B306200 | Malignant neoplasm of pubis |
| 40966 | B306300 | Malignant neoplasm of sacral vertebra |
| 66908 | B306400 | Malignant neoplasm of coccygeal vertebra |
| 50152 | B306500 | Malignant sacral teratoma |
| 38938 | B306z00 | Malignant neoplasm of pelvis, sacrum or coccyx NOS |
| 68055 | B307.00 | Malignant neoplasm of long bones of leg |
| 56513 | B307000 | Malignant neoplasm of femur |
| 50402 | B307100 | Malignant neoplasm of fibula |
| 40814 | B307200 | Malignant neoplasm of tibia |
| 62630 | B307z00 | Malignant neoplasm of long bones of leg NOS |
| 105475 | B308.00 | Malignant neoplasm of short bones of leg |
| 95182 | B308100 | Malignant neoplasm of talus |
| 72212 | B308200 | Malignant neoplasm of calcaneum |
| 34878 | B308300 | Malignant neoplasm of medial cuneiform |
| 69927 | B308800 | Malignant neoplasm of first metatarsal bone |
| 111426 | B308900 | Malignant neoplasm of second metatarsal bone |
| 92382 | B308B00 | Malignant neoplasm of fourth metatarsal bone |

| Medcode | Read Code | Description |
|---------|-----------|--|
| 58949 | B308D00 | Malignant neoplasm of phalanges of foot |
| 103354 | B308z00 | Malignant neoplasm of short bones of leg NOS |
| 67451 | B30W.00 | Malignant neoplasm/overlap lesion/bone+articulr cartilage |
| 43614 | B30X.00 | Malignant neoplasm/bones+articular cartilage/limb,unspfd |
| 16075 | B30z.00 | Malignant neoplasm of bone and articular cartilage NOS |
| 19437 | B30z000 | Osteosarcoma |
| 34451 | B3100 | Malignant neoplasm of connective and other soft tissue |
| 59382 | B310000 | Malignant neoplasm of soft tissue of head |
| 40014 | B310100 | Malignant neoplasm of soft tissue of face |
| 48517 | B310200 | Malignant neoplasm of soft tissue of neck |
| 60035 | B310300 | Malignant neoplasm of cartilage of ear |
| 49463 | B310400 | Malignant neoplasm of tarsus of eyelid |
| 108389 | B310500 | Malignant neoplasm soft tissues of cervical spine |
| 50222 | B311000 | Malignant neoplasm of connective and soft tissue of shoulder |
| 64345 | B311100 | Malignant neoplasm of connective and soft tissue, upper arm |
| 57482 | B311200 | Malignant neoplasm of connective and soft tissue of fore-arm |
| 19321 | B311300 | Malignant neoplasm of connective and soft tissue of hand |
| 91586 | B311400 | Malignant neoplasm of connective and soft tissue of finger |
| 63988 | B311500 | Malignant neoplasm of connective and soft tissue of thumb |
| 102949 | B312000 | Malignant neoplasm of connective and soft tissue of hip |
| 54222 | B312400 | Malignant neoplasm of connective and soft tissue of foot |
| 99572 | B312500 | Malignant neoplasm of connective and soft tissue of toe |
| 22290 | B313.00 | Malignant neoplasm of connective and soft tissue of thorax |
| 29160 | B313000 | Malignant neoplasm of connective and soft tissue of axilla |
| 54186 | B313100 | Malignant neoplasm of diaphragm |
| 72522 | B313200 | Malignant neoplasm of great vessels |
| 45071 | B314.00 | Malignant neoplasm of connective and soft tissue of abdomen |
| 51965 | B315.00 | Malignant neoplasm of connective and soft tissue of pelvis |
| 70463 | B315000 | Malignant neoplasm of connective and soft tissue of buttock |
| 59152 | B315200 | Malignant neoplasm of connective and soft tissue of perineum |
| 111311 | B317.00 | Malignant neoplasm, overlap lesion connective & soft tissue |
| 15182 | B31z.00 | Malignant neoplasm of connective and soft tissue, site NOS |
| 104128 | B31z000 | Kaposi's sarcoma of soft tissue |
| 865 | B3200 | Malignant melanoma of skin |
| 70637 | B320.00 | Malignant melanoma of lip |
| 54632 | B321.00 | Malignant melanoma of eyelid including canthus |
| 57260 | B322.00 | Malignant melanoma of ear and external auricular canal |
| 59061 | B322000 | Malignant melanoma of auricle (ear) |
| 102145 | B322100 | Malignant melanoma of external auditory meatus |
| 73744 | B322z00 | Malignant melanoma of ear and external auricular canal NOS |
| 47252 | B323.00 | Malignant melanoma of other and unspecified parts of face |
| 41278 | B323000 | Malignant melanoma of external surface of cheek |
| 71136 | B323100 | Malignant melanoma of chin |
| 47094 | B323200 | Malignant melanoma of eyebrow |
| 68133 | B323300 | Malignant melanoma of forehead |

| Medcode | Read Code | Description |
|---------|-----------|---|
| 45139 | B323400 | Malignant melanoma of external surface of nose |
| 58958 | B323500 | Malignant melanoma of temple |
| 67806 | B323z00 | Malignant melanoma of face NOS |
| 65625 | B324.00 | Malignant melanoma of scalp and neck |
| 55881 | B324000 | Malignant melanoma of scalp |
| 45306 | B324100 | Malignant melanoma of neck |
| 99257 | B324z00 | Malignant melanoma of scalp and neck NOS |
| 38689 | B325.00 | Malignant melanoma of trunk (excluding scrotum) |
| 49814 | B325000 | Malignant melanoma of axilla |
| 32768 | B325100 | Malignant melanoma of breast |
| 53629 | B325200 | Malignant melanoma of buttock |
| 34259 | B325300 | Malignant melanoma of groin |
| 109002 | B325400 | Malignant melanoma of perianal skin |
| 95629 | B325500 | Malignant melanoma of perineum |
| 43715 | B325600 | Malignant melanoma of umbilicus |
| 43463 | B325700 | Malignant melanoma of back |
| 51209 | B325800 | Malignant melanoma of chest wall |
| 45760 | B325z00 | Malignant melanoma of trunk, excluding scrotum, NOS |
| 65164 | B326.00 | Malignant melanoma of upper limb and shoulder |
| 50505 | B326000 | Malignant melanoma of shoulder |
| 54685 | B326100 | Malignant melanoma of upper arm |
| 45755 | B326200 | Malignant melanoma of fore-arm |
| 62475 | B326300 | Malignant melanoma of hand |
| 25602 | B326400 | Malignant melanoma of finger |
| 63997 | B326500 | Malignant melanoma of thumb |
| 55292 | B326z00 | Malignant melanoma of upper limb or shoulder NOS |
| 46255 | B327.00 | Malignant melanoma of lower limb and hip |
| 73536 | B327000 | Malignant melanoma of hip |
| 51873 | B327100 | Malignant melanoma of thigh |
| 54305 | B327200 | Malignant melanoma of knee |
| 39878 | B327300 | Malignant melanoma of popliteal fossa area |
| 37872 | B327400 | Malignant melanoma of lower leg |
| 42714 | B327500 | Malignant melanoma of ankle |
| 61246 | B327600 | Malignant melanoma of heel |
| 41490 | B327700 | Malignant melanoma of foot |
| 36899 | B327800 | Malignant melanoma of toe |
| 53369 | B327900 | Malignant melanoma of great toe |
| 64327 | B327z00 | Malignant melanoma of lower limb or hip NOS |
| 111079 | B328.00 | Malignant melanoma stage IA |
| 109827 | B329.00 | Malignant melanoma stage IB |
| 110139 | B32A.00 | Malignant melanoma stage IIA |
| 110180 | B32B.00 | Malignant melanoma stage IIB |
| 111413 | B32C.00 | Malignant melanoma stage IIC |
| 110961 | B32F.00 | Malignant melanoma stage IIIC |
| 109745 | B32G.00 | Malignant melanoma stage IV M1a |

| Medcode | Read Code | Description |
|---------|-----------|---|
| 110483 | B32H.00 | Malignant melanoma stage IV M1b |
| 111162 | B32J.00 | Malignant melanoma stage IV M1c |
| 42153 | B32y.00 | Malignant melanoma of other specified skin site |
| 96585 | B32y000 | Overlapping malignant melanoma of skin |
| 28556 | B32z.00 | Malignant melanoma of skin NOS |
| 4632 | B3300 | Other malignant neoplasm of skin |
| 37016 | B3314 | Malignant neoplasm of sebaceous gland |
| 40443 | B3315 | Malignant neoplasm of sweat gland |
| 18245 | B330.00 | Malignant neoplasm of skin of lip |
| 43087 | B331.00 | Malignant neoplasm of eyelid including canthus |
| 36731 | B331000 | Malignant neoplasm of canthus |
| 55550 | B331100 | Malignant neoplasm of upper eyelid |
| 41958 | B331200 | Malignant neoplasm of lower eyelid |
| 53515 | B332.00 | Malignant neoplasm skin of ear and external auricular canal |
| 33997 | B332000 | Malignant neoplasm of skin of auricle (ear) |
| 62080 | B332100 | Malignant neoplasm of skin of external auditory meatus |
| 33271 | B332200 | Malignant neoplasm of pinna NEC |
| 27370 | B333.00 | Malignant neoplasm skin of other and unspecified parts face |
| 30645 | B333000 | Malignant neoplasm of skin of cheek, external |
| 49403 | B333100 | Malignant neoplasm of skin of chin |
| 55670 | B333200 | Malignant neoplasm of skin of eyebrow |
| 30576 | B333300 | Malignant neoplasm of skin of forehead |
| 16202 | B333400 | Malignant neoplasm of skin of nose (external) |
| 21327 | B333500 | Malignant neoplasm of skin of temple |
| 46008 | B333z00 | Malignant neoplasm skin other and unspec part of face NOS |
| 54234 | B334.00 | Malignant neoplasm of scalp and skin of neck |
| 37165 | B334000 | Malignant neoplasm of scalp |
| 43619 | B334100 | Malignant neoplasm of skin of neck |
| 73760 | B334z00 | Malignant neoplasm of scalp or skin of neck NOS |
| 57446 | B335.00 | Malignant neoplasm of skin of trunk, excluding scrotum |
| 70380 | B335000 | Malignant neoplasm of skin of axillary fold |
| 37969 | B335100 | Malignant neoplasm of skin of chest, excluding breast |
| 30543 | B335200 | Malignant neoplasm of skin of breast |
| 18618 | B335300 | Malignant neoplasm of skin of abdominal wall |
| 67748 | B335400 | Malignant neoplasm of skin of umbilicus |
| 66319 | B335500 | Malignant neoplasm of skin of groin |
| 46458 | B335600 | Malignant neoplasm of skin of perineum |
| 45077 | B335700 | Malignant neoplasm of skin of back |
| 62305 | B335800 | Malignant neoplasm of skin of buttock |
| 23480 | B335900 | Malignant neoplasm of perianal skin |
| 66447 | B335A00 | Malignant neoplasm of skin of scapular region |
| 15868 | B335z00 | Malignant neoplasm of skin of trunk, excluding scrotum, NOS |
| 30747 | B336.00 | Malignant neoplasm of skin of upper limb and shoulder |
| 43122 | B336000 | Malignant neoplasm of skin of shoulder |
| 42707 | B336100 | Malignant neoplasm of skin of upper arm |

| Medcode | Read Code | Description |
|----------------|--------------------|---|
| 30577 | B336200 | Malignant neoplasm of skin of fore-arm |
| 54352 | B336300 | Malignant neoplasm of skin of hand |
| 25245 | B336400 | Malignant neoplasm of skin of finger |
| 64406 | B336500 | Malignant neoplasm of skin of thumb |
| 60526 | B336z00 | Malignant neoplasm of skin of upper limb or shoulder NOS |
| 57442 | B337.00 | Malignant neoplasm of skin of lower limb and hip |
| 70988 | B337000 | Malignant neoplasm of skin of hip |
| 58601 | B337100 | Malignant neoplasm of skin of thigh |
| 56954 | B337200 | Malignant neoplasm of skin of knee |
| 68197 | B337300 | Malignant neoplasm of skin of popliteal fossa area |
| 33682 | B337400 | Malignant neoplasm of skin of lower leg |
| 64270 | B337500 | Malignant neoplasm of skin of ankle |
| 104025 | B337600 | Malignant neoplasm of skin of heel |
| 70587 | B337700 | Malignant neoplasm of skin of foot |
| 65782 | B337800 | Malignant neoplasm of skin of toe |
| 67914 | B337900 | Malignant neoplasm of skin of great toe |
| 61194 | B337500 B337z00 | Malignant neoplasm of skin of lower limb or hip NOS |
| 93352 | B338.00 | Squamous cell carcinoma of skin |
| 24375 | B339.00 | Dermatofibrosarcoma protuberans |
| 42429 | B339.00 B33X.00 | Malignant neoplasm overlapping lesion of skin |
| 18354 | B33y.00 | Malignant neoplasm of other specified skin sites |
| 2492 | B33z.00 | Malignant neoplasm of skin NOS |
| 27931 | B332000 | Kaposi's sarcoma of skin |
| 3968 | B332000 B3400 | Malignant neoplasm of female breast |
| 348 | В3411 | Ca female breast |
| 26853 | B340.00 | Malignant neoplasm of nipple and areola of female breast |
| 23380 | B340000 | Malignant neoplasm of nipple of female breast |
| 64686 | B340000 B340100 | Malignant neoplasm of areola of female breast |
| 59831 | B340100 B340z00 | Malignant neoplasm of nipple or areola of female breast NOS |
| 31546 | B340200 B341.00 | Malignant neoplasm of central part of female breast |
| | B341.00 B342.00 | Malignant neoplasm of upper-inner quadrant of female breast |
| 29826 45222 | B342.00 B343.00 | Malignant neoplasm of lower-inner quadrant of female breast |
| 23399 | B343.00 B344.00 | Malignant neoplasm of upper-outer quadrant of female breast |
| 42070 | B345.00 | Malignant neoplasm of lower-outer quadrant of female breast |
| 20685 | B345.00 B346.00 | Malignant neoplasm of axillary tail of female breast |
| 49148 | | Malignant neoplasm, overlapping lesion of breast |
| | B347.00 | |
| 56715 | B34y.00 | Malignant neoplasm of other site of female breast |
| 95057 | B34y000 | Malignant neoplasm of ectopic site of female breast |
| 38475 | B34yz00 | Malignant neoplasm of other site of female breast NOS |
| 9470 | B34z.00 | Malignant neoplasm of female breast NOS |
| 19423 | B3500 | Malignant neoplasm of male breast |
| 54494 | B350.00 | Malignant neoplasm of nipple and areola of male breast |
| 68480 | B350000 | Malignant neoplasm of nipple of male breast |
| 67884 | B350100 | Malignant neoplasm of areola of male breast |
| 54202 | B35z.00 | Malignant neoplasm of other site of male breast |

| Medcode | Read Code | Description |
|---------|--------------|--|
| 95323 | B35z000 | Malignant neoplasm of ectopic site of male breast |
| 48809 | B35zz00 | Malignant neoplasm of male breast NOS |
| 105488 | B3600 | Local recurrence of malignant tumour of breast |
| 13252 | B400 | Malignant neoplasm of genitourinary organ |
| 2744 | B4000 | Malignant neoplasm of uterus, part unspecified |
| 2747 | B4100 | Malignant neoplasm of cervix uteri |
| 3230 | B4111 | Cervical carcinoma (uterus) |
| 48820 | B410.00 | Malignant neoplasm of endocervix |
| 57235 | B410000 | Malignant neoplasm of endocervical canal |
| 53103 | B410100 | Malignant neoplasm of endocervical gland |
| 50285 | B410z00 | Malignant neoplasm of endocervix NOS |
| 50297 | B411.00 | Malignant neoplasm of exocervix |
| 58094 | B412.00 | Malignant neoplasm, overlapping lesion of cervix uteri |
| 32955 | B41y.00 | Malignant neoplasm of other site of cervix |
| 95505 | B41y000 | Malignant neoplasm of cervical stump |
| 57719 | , B41y100 | Malignant neoplasm of squamocolumnar junction of cervix |
| 43435 | , B41yz00 | Malignant neoplasm of other site of cervix NOS |
| 28311 | B41z.00 | Malignant neoplasm of cervix uteri NOS |
| 93762 | B4200 | Malignant neoplasm of placenta |
| 28003 | B420.00 | Choriocarcinoma |
| 7046 | B4300 | Malignant neoplasm of body of uterus |
| 3213 | B430.00 | Malignant neoplasm of corpus uteri, excluding isthmus |
| 72723 | B430000 | Malignant neoplasm of cornu of corpus uteri |
| 68155 | B430100 | Malignant neoplasm of fundus of corpus uteri |
| 2890 | B430200 | Malignant neoplasm of endometrium of corpus uteri |
| 49400 | B430211 | Malignant neoplasm of endometrium |
| 45793 | B430300 | Malignant neoplasm of myometrium of corpus uteri |
| 45490 | B430z00 | Malignant neoplasm of corpus uteri NOS |
| 43940 | B431.00 | Malignant neoplasm of isthmus of uterine body |
| 59097 | B431000 | Malignant neoplasm of lower uterine segment |
| 70729 | B431z00 | Malignant neoplasm of isthmus of uterine body NOS |
| 16967 | B432.00 | Malignant neoplasm of overlapping lesion of corpus uteri |
| 31608 | B43y.00 | Malignant neoplasm of other site of uterine body |
| 33617 | B43z.00 | Malignant neoplasm of body of uterus NOS |
| 19141 | B4400 | Malignant neoplasm of ovary and other uterine adnexa |
| 7805 | B440.00 | Malignant neoplasm of ovary |
| 1986 | B440.11 | Cancer of ovary |
| 49828 | B441.00 | Malignant neoplasm of fallopian tube |
| 101778 | B442.00 | Malignant neoplasm of broad ligament |
| 46153 | B443.00 | Malignant neoplasm of parametrium |
| 97996 | B44y.00 | Malignant neoplasm of other site of uterine adnexa |
| 65106 | B44z.00 | Malignant neoplasm of uterine adnexa NOS |
| 37328 | B450.00 | Malignant neoplasm of vagina |
| 10698 | B450100 | Malignant neoplasm of vaginal vault |
| 60772 | B450z00 | Malignant neoplasm of vagina NOS |

| Medcode | Read Code | Description |
|---------|-----------|--|
| 43761 | B451.00 | Malignant neoplasm of labia majora |
| 47899 | B451000 | Malignant neoplasm of greater vestibular (Bartholin's) gland |
| 59362 | B451z00 | Malignant neoplasm of labia majora NOS |
| 58061 | B452.00 | Malignant neoplasm of labia minora |
| 53910 | B453.00 | Malignant neoplasm of clitoris |
| 4554 | B454.00 | Malignant neoplasm of vulva unspecified |
| 11991 | B454.11 | Primary vulval cancer |
| 26454 | B45X.00 | Malignant neoplasm/overlapping lesion/feml genital organs |
| 95421 | B45y.00 | Malignant neoplasm of other specified female genital organ |
| 27617 | B45y000 | Malignant neoplasm of overlapping lesion of vulva |
| 20166 | B45z.00 | Malignant neoplasm of female genital organ NOS |
| 780 | B4600 | Malignant neoplasm of prostate |
| 15148 | B4700 | Malignant neoplasm of testis |
| 64602 | B470.00 | Malignant neoplasm of undescended testis |
| 7740 | B470200 | Seminoma of undescended testis |
| 36325 | B470300 | Teratoma of undescended testis |
| 96429 | B470z00 | Malignant neoplasm of undescended testis NOS |
| 19475 | B471.00 | Malignant neoplasm of descended testis |
| 21786 | B471000 | Seminoma of descended testis |
| 9476 | B471100 | Teratoma of descended testis |
| 91509 | B471z00 | Malignant neoplasm of descended testis NOS |
| 38510 | B47z.00 | Malignant neoplasm of testis NOS |
| 2961 | B47z.11 | Seminoma of testis |
| 15989 | B47z.12 | Teratoma of testis |
| 3541 | B4800 | Malignant neoplasm of penis and other male genital organs |
| 50681 | B480.00 | Malignant neoplasm of prepuce (foreskin) |
| 17841 | B481.00 | Malignant neoplasm of glans penis |
| 48743 | B482.00 | Malignant neoplasm of body of penis |
| 43392 | B483.00 | Malignant neoplasm of penis, part unspecified |
| 72127 | B484.00 | Malignant neoplasm of epididymis |
| 63331 | B485.00 | Malignant neoplasm of spermatic cord |
| 47767 | B486.00 | Malignant neoplasm of scrotum |
| 52570 | B487.00 | Malignant neoplasm, overlapping lesion of penis |
| 67949 | B48y.00 | Malignant neoplasm of other male genital organ |
| 68161 | B48y000 | Malignant neoplasm of seminal vesicle |
| 47668 | B48y100 | Malignant neoplasm of tunica vaginalis |
| 68824 | B48y200 | Malignant neoplasm, overlapping lesion male genital orgs |
| 92329 | B48yz00 | Malignant neoplasm of other male genital organ NOS |
| 63224 | B48z.00 | Malignant neoplasm of penis and other male genital organ NOS |
| 38862 | B490.00 | Malignant neoplasm of trigone of urinary bladder |
| 44996 | B491.00 | Malignant neoplasm of dome of urinary bladder |
| 35963 | B492.00 | Malignant neoplasm of lateral wall of urinary bladder |
| 19162 | B493.00 | Malignant neoplasm of anterior wall of urinary bladder |
| 42012 | B494.00 | Malignant neoplasm of posterior wall of urinary bladder |
| 41571 | B495.00 | Malignant neoplasm of bladder neck |

| Medcode | Read Code | Description |
|---------|---------------|--|
| 28241 | B496.00 | Malignant neoplasm of ureteric orifice |
| 42023 | B497.00 | Malignant neoplasm of urachus |
| 105388 | B498.00 | Local recurrence of malignant tumour of urinary bladder |
| 36949 | B49y.00 | Malignant neoplasm of other site of urinary bladder |
| 47801 | B49y000 | Malignant neoplasm, overlapping lesion of bladder |
| 31102 | B49z.00 | Malignant neoplasm of urinary bladder NOS |
| 18712 | B4A11 | Renal malignant neoplasm |
| 1599 | B4A0.00 | Malignant neoplasm of kidney parenchyma |
| 12389 | B4A1.00 | Malignant neoplasm of renal pelvis |
| 27540 | B4A1000 | Malignant neoplasm of renal calyces |
| 101608 | B4A1100 | Malignant neoplasm of ureteropelvic junction |
| 54184 | B4A1z00 | Malignant neoplasm of renal pelvis NOS |
| 15223 | B4A2.00 | Malignant neoplasm of ureter |
| 15644 | B4A3.00 | Malignant neoplasm of urethra |
| 72174 | B4A4.00 | Malignant neoplasm of paraurethral glands |
| 44884 | B4Ay.00 | Malignant neoplasm of other urinary organs |
| 59286 | B4Ay000 | Malignant neoplasm of overlapping lesion of urinary organs |
| 29462 | B4Az.00 | Malignant neoplasm of kidney or urinary organs NOS |
| 38931 | B4y00 | Malignant neoplasm of genitourinary organ OS |
| 52594 | B4z00 | Malignant neoplasm of genitourinary organ NOS |
| 10995 | B4200 B500 | Malignant neoplasm of other and unspecified sites |
| 20160 | B5000 | Malignant neoplasm of eye |
| 59041 | B500000 | Malignant neoplasm of ciliary body |
| 59381 | B500100 | Malignant neoplasm of iris |
| 106569 | B500200 | Malignant neoplasm of crystalline lens |
| 56718 | B500200 | |
| | | Malignant neoplasm of eyeball NOS |
| 45667 | B501.00 | Malignant neoplasm of orbit |
| 86996 | B501000 | Malignant neoplasm of connective tissue of orbit |
| 63104 | B501z00 | Malignant neoplasm of orbit NOS |
| 64817 | B502.00 | Malignant neoplasm of lacrimal gland |
| 63657 | B503.00 | Malignant neoplasm of conjunctiva |
| 73992 | B504.00 | Malignant neoplasm of cornea |
| 28069 | B505.00 | Malignant neoplasm of retina |
| 15991 | B506.00 | Malignant neoplasm of choroid |
| 71584 | B507.00 | Malignant neoplasm of learing lace |
| 101805 | B507000 | Malignant neoplasm of lacrimal sac |
| 65357 | B507100 | Malignant neoplasm of nasolacrimal duct |
| 45922 | B508.00 | Malignant neoplasm, overlapping lesion of eye and adnexa |
| 108363 | B509.00 | Malignant melanoma of eye |
| 40437 | B50y.00 | Malignant neoplasm of other specified site of eye |
| 54956 | B50z.00 | Malignant neoplasm of eye NOS |
| 18617 | B5100 | Malignant neoplasm of brain |
| 10851 | B5111 | Cerebral tumour - malignant |
| 15711 | B510.00 | Malignant neoplasm cerebrum (excluding lobes and ventricles) |
| 48073 | B510000 | Malignant neoplasm of basal ganglia |

| Medcode | Read Code | Description |
|---------|-----------|---|
| 61399 | B510100 | Malignant neoplasm of cerebral cortex |
| 99913 | B510300 | Malignant neoplasm of globus pallidus |
| 70942 | B510400 | Malignant neoplasm of hypothalamus |
| 62126 | B510500 | Malignant neoplasm of thalamus |
| 54133 | B510z00 | Malignant neoplasm of cerebrum NOS |
| 42426 | B511.00 | Malignant neoplasm of frontal lobe |
| 46792 | B512.00 | Malignant neoplasm of temporal lobe |
| 67236 | B512000 | Malignant neoplasm of hippocampus |
| 47556 | B512z00 | Malignant neoplasm of temporal lobe NOS |
| 19226 | B513.00 | Malignant neoplasm of parietal lobe |
| 39088 | B514.00 | Malignant neoplasm of occipital lobe |
| 52511 | B515.00 | Malignant neoplasm of cerebral ventricles |
| 46789 | B515000 | Malignant neoplasm of choroid plexus |
| 45154 | B516.00 | Malignant neoplasm of cerebellum |
| 44089 | B517.00 | Malignant neoplasm of brain stem |
| 64557 | B517000 | Malignant neoplasm of cerebral peduncle |
| 49132 | B517100 | Malignant neoplasm of medulla oblongata |
| 93537 | B517200 | Malignant neoplasm of midbrain |
| 91240 | B517300 | Malignant neoplasm of pons |
| 68641 | B517z00 | Malignant neoplasm of brain stem NOS |
| 71139 | B51y.00 | Malignant neoplasm of other parts of brain |
| 59170 | B51y000 | Malignant neoplasm of corpus callosum |
| 65241 | B51y200 | Malignant neoplasm, overlapping lesion of brain |
| 100733 | B51yz00 | Malignant neoplasm of other part of brain NOS |
| 41520 | B51z.00 | Malignant neoplasm of brain NOS |
| 99621 | B520.00 | Malignant neoplasm of cranial nerves |
| 64971 | B520000 | Malignant neoplasm of olfactory bulb |
| 70126 | B520100 | Malignant neoplasm of optic nerve |
| 65599 | B520200 | Malignant neoplasm of acoustic nerve |
| 101086 | B520z00 | Malignant neoplasm of cranial nerves NOS |
| 28919 | B521.00 | Malignant neoplasm of cerebral meninges |
| 110766 | B521000 | Malignant neoplasm of cerebral dura mater |
| 109473 | B521200 | Malignant neoplasm of cerebral pia mater |
| 70104 | B521z00 | Malignant neoplasm of cerebral meninges NOS |
| 51115 | B522.00 | Malignant neoplasm of spinal cord |
| 49714 | B523.00 | Malignant neoplasm of spinal meninges |
| 67211 | B523z00 | Malignant neoplasm of spinal meninges NOS |
| 63568 | B524000 | Malignant neoplasm of peripheral nerves of head, face & neck |
| 61716 | B524100 | Malignant neoplasm of peripheral nerve, upp limb, incl should |
| 89258 | B524200 | Malignant neoplasm of peripheral nerve of low limb, incl hip |
| 63695 | B524300 | Malignant neoplasm of peripheral nerve of thorax |
| 86046 | B524400 | Malignant neoplasm of peripheral nerve of abdomen |
| 73988 | B524500 | Malignant neoplasm of peripheral nerve of pelvis |
| 50777 | B524600 | Malignant neoplasm, overlap lesion periph nerve & auton ns |
| 9622 | B525.00 | Malignant neoplasm of cauda equina |

| Medcode | Read Code | Description |
|---------|-----------|--|
| 49875 | B52X.00 | Malignant neoplasm of meninges, unspecified |
| 88144 | B52y.00 | Malignant neoplasm of other specified part of nervous system |
| 56490 | B52z.00 | Malignant neoplasm of nervous system NOS |
| 5637 | B5300 | Malignant neoplasm of thyroid gland |
| 28148 | B540.00 | Malignant neoplasm of adrenal gland |
| 61390 | B540000 | Malignant neoplasm of adrenal cortex |
| 94220 | B540100 | Malignant neoplasm of adrenal medulla |
| 70824 | B540z00 | Malignant neoplasm of adrenal gland NOS |
| 4218 | B541.00 | Malignant neoplasm of parathyroid gland |
| 59823 | B542.00 | Malignant neoplasm pituitary gland and craniopharyngeal duct |
| 8550 | B542000 | Malignant neoplasm of pituitary gland |
| 39899 | B542100 | Malignant neoplasm of craniopharyngeal duct |
| 42460 | B543.00 | Malignant neoplasm of pineal gland |
| 57047 | B544.00 | Malignant neoplasm of carotid body |
| 50035 | B545.00 | Malignant neoplasm of aortic body and other paraganglia |
| 51795 | B545000 | Malignant neoplasm of glomus jugulare |
| 47840 | B545100 | Malignant neoplasm of aortic body |
| 46905 | B545200 | Malignant neoplasm of coccygeal body |
| 103995 | B545z00 | Malignant neoplasm of aortic body or paraganglia NOS |
| 100083 | B546.00 | Neuroblastoma |
| 87113 | B54X.00 | Malignant neoplasm-pluriglandular involvement, unspecified |
| 90659 | B54y.00 | Malignant neoplasm of other specified endocrine gland |
| 9030 | B5500 | Malignant neoplasm of other and ill-defined sites |
| 68236 | B550.00 | Malignant neoplasm of head, neck and face |
| 55098 | B550000 | Malignant neoplasm of head NOS |
| 41931 | B550100 | Malignant neoplasm of cheek NOS |
| 12490 | B550200 | Malignant neoplasm of nose NOS |
| 51818 | B550300 | Malignant neoplasm of jaw NOS |
| 16280 | B550400 | Malignant neoplasm of neck NOS |
| 73510 | B550500 | Malignant neoplasm of supraclavicular fossa NOS |
| 58903 | B550z00 | Malignant neoplasm of head, neck and face NOS |
| 47286 | B551.00 | Malignant neoplasm of thorax |
| 37618 | B551000 | Malignant neoplasm of axilla NOS |
| 23861 | B551100 | Malignant neoplasm of chest wall NOS |
| 97547 | B551200 | Malignant neoplasm of intrathoracic site NOS |
| 64810 | B551z00 | Malignant neoplasm of thorax NOS |
| 15976 | B552.00 | Malignant neoplasm of abdomen |
| 52316 | B553.00 | Malignant neoplasm of pelvis |
| 57854 | B553000 | Malignant neoplasm of inguinal region NOS |
| 89916 | B553100 | Malignant neoplasm of presacral region |
| 107126 | B553200 | Malignant neoplasm of sacrococcygeal region |
| 55101 | B553z00 | Malignant neoplasm of pelvis NOS |
| 27449 | B554.00 | Malignant neoplasm of upper limb NOS |
| 31399 | B555.00 | Malignant neoplasm of lower limb NOS |
| 42218 | B55y.00 | Malignant neoplasm of other specified sites |

| Medcode | Read Code | Description |
|---------|-----------|--|
| 68787 | B55y000 | Malignant neoplasm of back NOS |
| 67217 | B55y100 | Malignant neoplasm of trunk NOS |
| 94355 | B55y200 | Malignant neoplasm of flank NOS |
| 60052 | B55yz00 | Malignant neoplasm of specified site NOS |
| 45267 | B55z.00 | Malignant neoplasm of other and ill defined site NOS |
| 9618 | B5600 | Secondary and unspecified malignant neoplasm of lymph nodes |
| 7830 | B5611 | Lymph node metastases |
| 66775 | B560100 | Secondary and unspec malignant neoplasm mastoid lymph nodes |
| 65253 | B560300 | Secondary and unspec malignant neoplasm occipital lymph node |
| 6471 | B5711 | Metastases of respiratory and/or digestive systems |
| 24301 | B5712 | Secondary carcinoma of respiratory and/or digestive systems |
| 4137 | B570.00 | Secondary malignant neoplasm of lung |
| 51551 | B571.00 | Secondary malignant neoplasm of mediastinum |
| 16213 | B572.00 | Secondary malignant neoplasm of pleura |
| 62584 | B573.00 | Secondary malignant neoplasm of other respiratory organs |
| 64680 | B574.00 | Secondary malignant neoplasm of small intestine and duodenum |
| 55946 | B574000 | Secondary malignant neoplasm of duodenum |
| 110433 | B574100 | Secondary malignant neoplasm of jejunum |
| 99511 | B574200 | Secondary malignant neoplasm of ileum |
| 44529 | B575.00 | Secondary malignant neoplasm of large intestine and rectum |
| 28727 | B575000 | Secondary malignant neoplasm of colon |
| 62909 | B575100 | Secondary malignant neoplasm of rectum |
| 35364 | B576000 | Secondary malignant neoplasm of retroperitoneum |
| 27391 | B576100 | Secondary malignant neoplasm of peritoneum |
| 8154 | B576200 | Malignant ascites |
| 15103 | B577.00 | Secondary malignant neoplasm of liver |
| 4403 | B577.11 | Liver metastases |
| 56345 | B57y.00 | Secondary malignant neoplasm of other digestive organ |
| 5842 | B5800 | Secondary malignant neoplasm of other specified sites |
| 27651 | B5811 | Secondary carcinoma of other specified sites |
| 1952 | B580.00 | Secondary malignant neoplasm of kidney |
| 73213 | B581.00 | Secondary malignant neoplasm of other urinary organs |
| 60134 | B581000 | Secondary malignant neoplasm of ureter |
| 22146 | B581100 | Secondary malignant neoplasm of bladder |
| 53528 | B581200 | Secondary malignant neoplasm of urethra |
| 62828 | B581z00 | Secondary malignant neoplasm of other urinary organ NOS |
| 19945 | B582.00 | Secondary malignant neoplasm of skin |
| 43930 | B582000 | Secondary malignant neoplasm of skin of head |
| 100296 | B582100 | Secondary malignant neoplasm of skin of face |
| 35999 | B582200 | Secondary malignant neoplasm of skin of neck |
| 41144 | B582300 | Secondary malignant neoplasm of skin of trunk |
| 63896 | B582400 | Secondary malignant neoplasm of skin of shoulder and arm |
| 48828 | B582500 | Secondary malignant neoplasm of skin of hip and leg |
| 9505 | B582600 | Secondary malignant neoplasm of skin of breast |
| 55096 | B582z00 | Secondary malignant neoplasm of skin NOS |

| Medcode | Read Code | Description |
|---------|--------------------|--|
| 33843 | B583.00 | Secondary malignant neoplasm of brain and spinal cord |
| 5198 | B583000 | Secondary malignant neoplasm of brain |
| 38918 | B583100 | Secondary malignant neoplasm of spinal cord |
| 5199 | B583200 | Cerebral metastasis |
| 59375 | B583z00 | Secondary malignant neoplasm of brain or spinal cord NOS |
| 54120 | B584.00 | Secondary malignant neoplasm of other part of nervous system |
| 7654 | B585.00 | Secondary malignant neoplasm of bone and bone marrow |
| 18676 | B585000 | Pathological fracture due to metastatic bone disease |
| 44615 | B586.00 | Secondary malignant neoplasm of ovary |
| 36401 | B587.00 | Secondary malignant neoplasm of adrenal gland |
| 18616 | B58y.00 | Secondary malignant neoplasm of other specified sites |
| 16760 | B58y000 | Secondary malignant neoplasm of breast |
| 55090 | B58y100 | Secondary malignant neoplasm of uterus |
| 73616 | B58y200 | Secondary malignant neoplasm of cervix uteri |
| 97832 | B58y211 | Secondary cancer of the cervix |
| 70736 | B58y300 | Secondary malignant neoplasm of vagina |
| 60335 | B58y400 | Secondary maignant neoplasm of vulva |
| 65490 | B58y411 | Secondary cancer of the vulva |
| 21590 | B58y500 | Secondary malignant neoplasm of prostate |
| 34145 | B58y600 | Secondary malignant neoplasm of prostate |
| 49145 | B58y700 | Secondary malignant neoplasm of penis |
| 104480 | B58y800 | Secondary malignant neoplasm of epididymis and vas deferens |
| 45824 | B58y900 | Secondary malignant neoplasm of tongue |
| 22524 | B58y500 | Secondary malignant neoplasm of other specified site NOS |
| 16500 | B58z.00 | Secondary malignant neoplasm of other specified site NOS |
| 47810 | B582.00 B5900 | Malignant neoplasm of unspecified site |
| 13569 | B590.00 | Disseminated malignancy NOS |
| 6170 | B590.00 B590.11 | Carcinomatosis |
| 26034 | B591.00 | Other malignant neoplasm NOS |
| 51352 | B591.00 B592.00 | Malignant neoplasms of independent (primary) multiple sites |
| 65466 | B592X00 | Kaposi's sarcoma of multiple organs |
| 11035 | B593.00 | Primary malignant neoplasm of unknown site |
| 54679 | B594.00 | Secondary malignant neoplasm of unknown site |
| 104324 | B595.00 | Malignant tumour of unknown origin |
| 54267 | B595.00 B59z.00 | Malignant neoplasm of unspecified site NOS |
| 49525 | B592.00 B592X00 | Kaposi's sarcoma, unspecified |
| 38736 | B592X00 B5y00 | Malignant neoplasm of other and unspecified site OS |
| 1056 | в5у00 В5z00 | Malignant neoplasm of other and unspecified site OS |
| 1036 | B5200 B600 | Malignant neoplasm of lymphatic and haemopoietic tissue |
| 37112 | B611 | Malignant neoplasm of histiocytic tissue |
| 41369 | B6000 | Lymphosarcoma and reticulosarcoma |
| 1481 | B600.00 | Reticulosarcoma |
| | | |
| 60242 | B600000 | Reticulosarcoma of unspecified site |
| 71031 | B600100 | Reticulosarcoma of lymph nodes of head, face and neck |
| 70374 | B600300 | Reticulosarcoma of intra-abdominal lymph nodes |

| Medcode | Read Code | Description |
|---------|--------------|--|
| 95058 | B600700 | Reticulosarcoma of spleen |
| 99240 | B600z00 | Reticulosarcoma NOS |
| 27416 | B601.00 | Lymphosarcoma |
| 71625 | B601000 | Lymphosarcoma of unspecified site |
| 71238 | B601100 | Lymphosarcoma of lymph nodes of head, face and neck |
| 62380 | B601200 | Lymphosarcoma of intrathoracic lymph nodes |
| 64670 | B601300 | Lymphosarcoma of intra-abdominal lymph nodes |
| 100352 | B601500 | Lymphosarcoma of lymph nodes of inguinal region and leg |
| 103245 | B601700 | Lymphosarcoma of spleen |
| 104790 | B601800 | Lymphosarcoma of lymph nodes of multiple sites |
| 63723 | B601z00 | Lymphosarcoma NOS |
| 21402 | B602.00 | Burkitt's lymphoma |
| 59115 | B602100 | Burkitt's lymphoma of lymph nodes of head, face and neck |
| 100006 | B602200 | Burkitt's lymphoma of intrathoracic lymph nodes |
| 97577 | B602300 | Burkitt's lymphoma of intra-abdominal lymph nodes |
| 92380 | B602500 | Burkitt's lymphoma of lymph nodes of inguinal region and leg |
| 71304 | B602z00 | Burkitt's lymphoma NOS |
| 99887 | B60y.00 | Other specified reticulosarcoma or lymphosarcoma |
| 99951 | , B60z.00 | Reticulosarcoma or lymphosarcoma NOS |
| 2462 | B6100 | Hodgkin's disease |
| 104291 | B6111 | Hodgkin lymphoma |
| 65489 | B610.00 | Hodgkin's paragranuloma |
| 100423 | B610100 | Hodgkin's paragranuloma of lymph nodes of head, face, neck |
| 98840 | B610300 | Hodgkin's paragranuloma of intra-abdominal lymph nodes |
| 44196 | B611.00 | Hodgkin's granuloma |
| 98909 | B611100 | Hodgkin's granuloma of lymph nodes of head, face and neck |
| 64036 | B612.00 | Hodgkin's sarcoma |
| 68039 | B612400 | Hodgkin's sarcoma of lymph nodes of axilla and upper limb |
| 38939 | B613.00 | Hodgkin's disease, lymphocytic-histiocytic predominance |
| 71142 | B613000 | Hodgkin's, lymphocytic-histiocytic predominance unspec site |
| 68330 | B613100 | Hodgkin's, lymphocytic-histiocytic pred of head, face, neck |
| 92245 | B613200 | Hodgkin's, lymphocytic-histiocytic pred intrathoracic nodes |
| 73532 | B613300 | Hodgkin's, lymphocytic-histiocytic pred intra-abdominal node |
| 93951 | B613500 | Hodgkin's, lymphocytic-histiocytic pred inguinal and leg |
| 95338 | B613600 | Hodgkin's, lymphocytic-histiocytic pred intrapelvic nodes |
| 106911 | B613700 | Hodgkin's, lymphocytic-histiocytic predominance of spleen |
| 104743 | B613800 | Hodgkin's, lymphocytic-histiocytic pred of multiple sites |
| 29876 | B613z00 | Hodgkin's, lymphocytic-histiocytic predominance NOS |
| 29178 | B614.00 | Hodgkin's disease, nodular sclerosis |
| 57225 | B614000 | Hodgkin's disease, nodular sclerosis of unspecified site |
| 55303 | B614100 | Hodgkin's nodular sclerosis of head, face and neck |
| 67506 | B614200 | Hodgkin's nodular sclerosis of intrathoracic lymph nodes |
| 61149 | B614300 | Hodgkin's nodular sclerosis of intra-abdominal lymph nodes |
| 65483 | B614400 | Hodgkin's nodular sclerosis of lymph nodes of axilla and arm |
| 105472 | B614700 | Hodgkin's disease, nodular sclerosis of spleen |

| Medcode | Read Code | Description |
|---------|-----------|--|
| 19140 | B614800 | Hodgkin's nodular sclerosis of lymph nodes of multiple sites |
| 63054 | B614z00 | Hodgkin's disease, nodular sclerosis NOS |
| 49605 | B615.00 | Hodgkin's disease, mixed cellularity |
| 97863 | B615000 | Hodgkin's disease, mixed cellularity of unspecified site |
| 94407 | B615100 | Hodgkin's mixed cellularity of lymph nodes head, face, neck |
| 58684 | B615200 | Hodgkin's mixed cellularity of intrathoracic lymph nodes |
| 108886 | B615500 | Hodgkin's mixed cellularity of lymph nodes inguinal and leg |
| 94005 | B615z00 | Hodgkin's disease, mixed cellularity NOS |
| 67703 | B616.00 | Hodgkin's disease, lymphocytic depletion |
| 95049 | B616000 | Hodgkin's lymphocytic depletion of unspecified site |
| 63625 | B616400 | Hodgkin's lymphocytic depletion lymph nodes axilla and arm |
| 110563 | B616500 | Hodgkin's lymphocytic depletion lymph nodes inguinal and leg |
| 101715 | B616700 | Hodgkin's disease, lymphocytic depletion of spleen |
| 107032 | B616800 | Hodgkin's lymphocytic depletion lymph nodes multiple sites |
| 101530 | B616z00 | Hodgkin's disease, lymphocytic depletion NOS |
| 104895 | B617.00 | Nodular lymphocyte predominant Hodgkin lymphoma |
| 105841 | B618.00 | Nodular sclerosis classical Hodgkin lymphoma |
| 108775 | B619.00 | Mixed cellularity classical Hodgkin lymphoma |
| 106597 | B61B.00 | Lymphocyte-rich classical Hodgkin lymphoma |
| 104484 | B61C.00 | Other classical Hodgkin lymphoma |
| 53397 | B61z.00 | Hodgkin's disease NOS |
| 106349 | B61z.11 | Hodgkin lymphoma NOS |
| 61662 | B61z000 | Hodgkin's disease NOS, unspecified site |
| 59778 | B61z100 | Hodgkin's disease NOS of lymph nodes of head, face and neck |
| 59755 | B61z200 | Hodgkin's disease NOS of intrathoracic lymph nodes |
| 107804 | B61z300 | Hodgkin's disease NOS of intra-abdominal lymph nodes |
| 91900 | B61z400 | Hodgkin's disease NOS of lymph nodes of axilla and arm |
| 99012 | B61z500 | Hodgkin's disease NOS of lymph nodes inguinal region and leg |
| 94279 | B61z700 | Hodgkin's disease NOS of spleen |
| 97746 | B61z800 | Hodgkin's disease NOS of lymph nodes of multiple sites |
| 42461 | B61zz00 | Hodgkin's disease NOS |
| 33333 | B6200 | Other malignant neoplasm of lymphoid and histiocytic tissue |
| 5179 | B620.00 | Nodular lymphoma (Brill - Symmers disease) |
| 66327 | B620000 | Nodular lymphoma of unspecified site |
| 45264 | B620100 | Nodular lymphoma of lymph nodes of head, face and neck |
| 105203 | B620200 | Nodular lymphoma of intrathoracic lymph nodes |
| 92068 | B620300 | Nodular lymphoma of intra-abdominal lymph nodes |
| 94995 | B620500 | Nodular lymphoma of lymph nodes of inguinal region and leg |
| 58082 | B620800 | Nodular lymphoma of lymph nodes of multiple sites |
| 65701 | B620z00 | Nodular lymphoma NOS |
| 44267 | B623.00 | Malignant histiocytosis |
| 69497 | B623000 | Malignant histiocytosis of unspecified site |
| 94415 | B623100 | Malignant histiocytosis of lymph nodes head, face and neck |
| 65642 | B623300 | Malignant histiocytosis of intra-abdominal lymph nodes |
| 110903 | B623800 | Malignant histiocytosis of lymph nodes of multiple sites |

| Medcode | Read Code | Description |
|---------|-----------|---|
| 58871 | B623z00 | Malignant histiocytosis NOS |
| 27330 | B624.00 | Leukaemic reticuloendotheliosis |
| 5137 | B624.11 | Leukaemic reticuloendotheliosis |
| 87335 | B624.12 | Hairy cell leukaemia |
| 65122 | B624000 | Leukaemic reticuloendotheliosis of unspecified sites |
| 65123 | B624300 | Leukaemic reticuloend of intra-abdominal lymph nodes |
| 73777 | B624z00 | Leukaemic reticuloendotheliosis NOS |
| 15036 | B626.00 | Malignant mast cell tumours |
| 103900 | B626000 | Mast cell malignancy of unspecified site |
| 100615 | B626500 | Mast cell malignancy of lymph nodes inguinal region and leg |
| 31324 | B626800 | Mast cell malignancy of lymph nodes of multiple sites |
| 89657 | B626z00 | Malignant mast cell tumour NOS |
| 3604 | B627.00 | Non - Hodgkin's lymphoma |
| 104391 | B627.11 | Non-Hodgkin lymphoma |
| 28639 | B627000 | Follicular non-Hodgkin's small cleaved cell lymphoma |
| 70842 | B627100 | Follicular non-Hodg mixed sml cleavd & lge cell lymphoma |
| 49262 | B627200 | Follicular non-Hodgkin's large cell lymphoma |
| 50668 | B627300 | Diffuse non-Hodgkin's small cell (diffuse) lymphoma |
| 108182 | B627400 | Diffuse non-Hodgkin's small cleaved cell (diffuse) lymphoma |
| 50695 | B627500 | Diffuse non-Hodgkin mixed sml & lge cell (diffuse) lymphoma |
| 53551 | B627600 | Diffuse non-Hodgkin's immunoblastic (diffuse) lymphoma |
| 17460 | B627700 | Diffuse non-Hodgkin's lymphoblastic (diffuse) lymphoma |
| 65180 | B627800 | Diffuse non-Hodgkin's lymphoma undifferentiated (diffuse) |
| 95715 | B627900 | Mucosa-associated lymphoma |
| 101114 | B627A00 | Diffuse non-Hodgkin's large cell lymphoma |
| 31576 | B627B00 | Other types of follicular non-Hodgkin's lymphoma |
| 21549 | B627C00 | Follicular non-Hodgkin's lymphoma |
| 17182 | B627C11 | Follicular lymphoma NOS |
| 70509 | B627D00 | Diffuse non-Hodgkin's centroblastic lymphoma |
| 102594 | B627E00 | Diffuse large B-cell lymphoma |
| 105038 | B627G00 | Mediastinal (thymic) large B-cell lymphoma |
| 31794 | B627W00 | Unspecified B-cell non-Hodgkin's lymphoma |
| 39798 | B627X00 | Diffuse non-Hodgkin's lymphoma, unspecified |
| 104152 | B628.00 | Follicular lymphoma |
| 105889 | B628000 | Follicular lymphoma grade 1 |
| 105095 | B628100 | Follicular lymphoma grade 2 |
| 107166 | B628200 | Follicular lymphoma grade 3 |
| 105020 | B628300 | Follicular lymphoma grade 3a |
| 107973 | B628400 | Follicular lymphoma grade 3b |
| 106969 | B628500 | Diffuse follicle centre lymphoma |
| 108719 | B628600 | Cutaneous follicle centre lymphoma |
| 106063 | B628700 | Other types of follicular lymphoma |
| 105335 | B62A.00 | Sarcoma of dendritic cells |
| 105083 | B62D.00 | Histiocytic sarcoma |
| 105085 | B62E.00 | T/NK-cell lymphoma |

| Medcode | Read Code | Description |
|---------|-----------|--|
| 105559 | B62E100 | Anaplastic large cell lymphoma, ALK-positive |
| 105955 | B62E200 | Anaplastic large cell lymphoma, ALK-negative |
| 104862 | B62E300 | Cutaneous T-cell lymphoma |
| 109780 | B62E400 | Extranodal NK/T-cell lymphoma, nasal type |
| 107949 | B62E500 | Hepatosplenic T-cell lymphoma |
| 105709 | B62E600 | Enteropathy-associated T-cell lymphoma |
| 105925 | B62E700 | Subcutaneous panniculitic T-cell lymphoma |
| 105375 | B62E800 | Blastic NK-cell lymphoma |
| 105636 | B62E900 | Angioimmunoblastic T-cell lymphoma |
| 104934 | B62Ew00 | Other mature T/NK-cell lymphoma |
| 106884 | B62F.00 | Nonfollicular lymphoma |
| 106867 | B62F.11 | Non-follicular lymphoma |
| 104386 | B62F000 | Small cell B-cell lymphoma |
| 104620 | B62F100 | Mantle cell lymphoma |
| 104412 | B62F200 | Lymphoblastic (diffuse) lymphoma |
| 17887 | B62x.00 | Malignant lymphoma otherwise specified |
| 90201 | B62x000 | T-zone lymphoma |
| 57737 | B62x100 | Lymphoepithelioid lymphoma |
| 12464 | B62x200 | Peripheral T-cell lymphoma |
| 62437 | B62x400 | Malignant reticulosis |
| 58962 | B62x500 | Malignant immunoproliferative small intestinal disease |
| 95630 | B62x600 | True histiocytic lymphoma |
| 44318 | B62xX00 | Oth and unspecif peripheral & cutaneous T-cell lymphomas |
| 12335 | B62y.00 | Malignant lymphoma NOS |
| 57427 | B62y000 | Malignant lymphoma NOS of unspecified site |
| 50696 | B62y100 | Malignant lymphoma NOS of lymph nodes of head, face and neck |
| 72725 | B62y200 | Malignant lymphoma NOS of intrathoracic lymph nodes |
| 42579 | B62y300 | Malignant lymphoma NOS of intra-abdominal lymph nodes |
| 34089 | B62y400 | Malignant lymphoma NOS of lymph nodes of axilla and arm |
| 63105 | B62y500 | Malignant lymphoma NOS of lymph node inguinal region and leg |
| 71262 | B62y600 | Malignant lymphoma NOS of intrapelvic lymph nodes |
| 60092 | B62y700 | Malignant lymphoma NOS of spleen |
| 15504 | B62y800 | Malignant lymphoma NOS of lymph nodes of multiple sites |
| 15027 | B62yz00 | Malignant lymphoma NOS |
| 65434 | B62z.00 | Malignant neoplasms of lymphoid and histiocytic tissue NOS |
| 95792 | B62zz00 | Lymphoid and histiocytic malignancy NOS |
| 37182 | B6300 | Multiple myeloma and immunoproliferative neoplasms |
| 4944 | B630.00 | Multiple myeloma |
| 22158 | B630000 | Malignant plasma cell neoplasm, extramedullary plasmacytoma |
| 39187 | B631.00 | Plasma cell leukaemia |
| 43450 | B63z.00 | Immunoproliferative neoplasm or myeloma NOS |
| 19372 | B6400 | Lymphoid leukaemia |
| 4222 | B6411 | Lymphatic leukaemia |
| 4251 | B640.00 | Acute lymphoid leukaemia |
| 104325 | B640000 | B-cell acute lymphoblastic leukaemia |

| Medcode | Read Code | Description |
|---------|-----------|--|
| 8625 | B641.00 | Chronic lymphoid leukaemia |
| 27790 | B641.11 | Chronic lymphatic leukaemia |
| 104328 | B641000 | B-cell chronic lymphocytic leukaemia |
| 107017 | B641011 | Chronic lymphocytic leukaemia of B-cell type |
| 107052 | B641100 | Clinical stage A chronic lymphocytic leukaemia |
| 106924 | B641200 | Clinical stage B chronic lymphocytic leukaemia |
| 107163 | B641300 | Clinical stage C chronic lymphocytic leukaemia |
| 72774 | B642.00 | Subacute lymphoid leukaemia |
| 49725 | B64y.00 | Other lymphoid leukaemia |
| 31586 | B64y100 | Prolymphocytic leukaemia |
| 37461 | B64y200 | Adult T-cell leukaemia |
| 108656 | B64y300 | B-cell prolymphocytic leukaemia |
| 107643 | B64y400 | T-cell prolymphocytic leukaemia |
| 104939 | B64y500 | Adult T-cell lymphoma/leukaemia (HTLV-1-associated) |
| 38331 | B64yz00 | Other lymphoid leukaemia NOS |
| 38914 | B64z.00 | Lymphoid leukaemia NOS |
| 7176 | B6500 | Myeloid leukaemia |
| 4413 | B650.00 | Acute myeloid leukaemia |
| 10726 | B651.00 | Chronic myeloid leukaemia |
| 31701 | B651.11 | Chronic granulocytic leukaemia |
| 100786 | B651000 | Chronic eosinophilic leukaemia |
| 105957 | B651100 | Chronic myeloid leukaemia, BCR/ABL positive |
| 102783 | B651200 | Chronic neutrophilic leukaemia |
| 107236 | B651300 | Atypical chronic myeloid leukaemia, BCR/ABL negative |
| 27520 | B651z00 | Chronic myeloid leukaemia NOS |
| 63475 | B652.00 | Subacute myeloid leukaemia |
| 70724 | B653.00 | Myeloid sarcoma |
| 39629 | B653100 | Granulocytic sarcoma |
| 104788 | B654.00 | Acute myeloblastic leukaemia |
| 27664 | B65y100 | Acute promyelocytic leukaemia |
| 66089 | B65yz00 | Other myeloid leukaemia NOS |
| 33344 | B65z.00 | Myeloid leukaemia NOS |
| 35875 | B6600 | Monocytic leukaemia |
| 108715 | B6611 | Histiocytic leukaemia |
| 67700 | B6612 | Monoblastic leukaemia |
| 19974 | B660.00 | Acute monocytic leukaemia |
| 27458 | B661.00 | Chronic monocytic leukaemia |
| 101606 | B662.00 | Subacute monocytic leukaemia |
| 108424 | B663.00 | Acute monoblastic leukaemia |
| 99015 | B66y.00 | Other monocytic leukaemia |
| 103645 | B66yz00 | Other monocytic leukaemia NOS |
| 93342 | B66z.00 | Monocytic leukaemia NOS |
| 37272 | B6700 | Other specified leukaemia |
| 42539 | B670.00 | Acute erythraemia and erythroleukaemia |
| 57671 | B672.00 | Megakaryocytic leukaemia |

| Medcode | Read Code | Description |
|--------------|--------------------|--|
| 65777 | B672.11 | Thrombocytic leukaemia |
| 65721 | B673.00 | Mast cell leukaemia |
| 110838 | B676.00 | Acute erythroid leukaemia |
| 94174 | B67y.00 | Other and unspecified leukaemia |
| 72197 | B67y000 | Lymphosarcoma cell leukaemia |
| 99413 | B67yz00 | Other and unspecified leukaemia NOS |
| 30632 | B67z.00 | Other specified leukaemia NOS |
| 25191 | B6800 | Leukaemia of unspecified cell type |
| 4072 | B680.00 | Acute leukaemia NOS |
| 16416 | B681.00 | Chronic leukaemia NOS |
| 54793 | B682.00 | Subacute leukaemia NOS |
| 34692 | B68y.00 | Other leukaemia of unspecified cell type |
| 4250 | B68z.00 | Leukaemia NOS |
| 20440 | B6900 | Myelomonocytic leukaemia |
| 61500 | B690.00 | Acute myelomonocytic leukaemia |
| 22050 | B691.00 | Chronic myelomonocytic leukaemia |
| 104475 | B692.00 | Subacute myelomonocytic leukaemia |
| 105069 | B693.00 | Juvenile myelomonocytic leukaemia |
| 30646 | B6y00 | Malignant neoplasm lymphatic or haematopoietic tissue OS |
| 49301 | B6z00 | Malignant neoplasm lymphatic or haematopoletic tissue NOS |
| 50290 | B6z0.00 | Kaposi's sarcoma of lymph nodes |
| 19657 | B020.00 B911000 | Malignant hydatidiform mole |
| 5136 | B911000 B911013 | Choriocarcinoma |
| 16854 | B911013 B927.00 | Neurofibromatosis - Von Recklinghausen's disease |
| 10834 | B927.00 B927.11 | Von Recklinghausen's disease |
| 100900 | B927.11 B927.12 | Neurofibromatosis type 1 |
| 101052 | В927.12 В929.00 | |
| | | Neurofibromatosis type 2 |
| 46423 | B933.11 | Cystosarcoma phyllodes |
| 15543 | BB01.00 | [M]Neoplasm, uncertain whether benign or malignant [M]Neoplasm, malignant |
| 21868 | BB02.00 | |
| 3197 | BB03.00 | [M]Neoplasm, metastatic |
| 22267 | BB04.00 | [M]Neoplasm, malig, uncertain whether primary or metastatic |
| 5932 8627 | BB06.00 | [M]Tumour cells, uncertain whether benign or malignant |
| | BB07.00 | [M]Tumour cells, malignant |
| 22156 | BB08.00 | [M]Malignant tumour, small cell type |
| 24511 | BB09.00 | [M]Malignant tumour, giant cell type |
| 32213 | BB0A.00 | [M]Malignant tumour, fusiform cell type |
| 21914 | BB11.11 | [M]Intraepithelial carcinoma NOS |
| 8695 | BB12.00 | [M]Carcinoma NOS |
| 3152 | BB13.00 | [M]Carcinoma, metastatic, NOS |
| 9366 | BB13.11 | [M]Secondary carcinoma |
| 16692 | BB14.00 | [M]Carcinomatosis |
| 57336 | BB16.00 | [M]Epithelioma, malignant |
| 25961 | BB17.00 | [M]Large cell carcinoma NOS |
| 21609 | BB18.00 | [M]Carcinoma, undifferentiated type, NOS |

| Medcode | Read Code | Description |
|---------|-----------|--|
| 12609 | BB19.00 | [M]Carcinoma, anaplastic type, NOS |
| 26413 | BB1A.00 | [M]Pleomorphic carcinoma |
| 48048 | BB1B.00 | [M]Giant cell and spindle cell carcinoma |
| 35474 | BB1C.00 | [M]Giant cell carcinoma |
| 6966 | BB1D.00 | [M]Spindle cell carcinoma |
| 54276 | BB1E.00 | [M]Pseudosarcomatous carcinoma |
| 69300 | BB1F.00 | [M]Polygonal cell carcinoma |
| 61984 | BB1G.00 | [M]Spheroidal cell carcinoma |
| 9291 | BB1J.00 | [M]Small cell carcinoma NOS |
| 66541 | BB1J.12 | [M]Round cell carcinoma |
| 9156 | BB1K.00 | [M]Oat cell carcinoma |
| 67970 | BB1L.00 | [M]Small cell carcinoma, fusiform cell type |
| 30988 | BB1M.00 | [M]Small cell carcinoma, intermediate cell |
| 21217 | BB1N.00 | [M]Small cell-large cell carcinoma |
| 106519 | BB1P.00 | [M]Non-small cell carcinoma |
| 10541 | BB22.00 | [M]Papillary carcinoma NOS |
| 34395 | BB24.00 | [M]Verrucous carcinoma NOS |
| 43717 | BB24.11 | [M]Verrucous epidermoid carcinoma |
| 4852 | BB24.12 | [M]Verrucous squamous cell carcinoma |
| 20807 | BB26.00 | [M]Papillary squamous cell carcinoma |
| 67912 | BB26.11 | [M]Papillary epidermoid carcinoma |
| 19041 | BB29.12 | [M]Intraepidermal carcinoma NOS |
| 19678 | BB29.13 | [M]Intraepithelial squamous cell carcinoma |
| 1624 | BB2A.00 | [M]Squamous cell carcinoma NOS |
| 56600 | BB2A.11 | [M]Epidermoid carcinoma NOS |
| 57680 | BB2A.12 | [M]Spinous cell carcinoma |
| 94873 | BB2A.13 | [M]Squamous cell carcinoma of skin NOS |
| 24293 | BB2B.00 | [M]Squamous cell carcinoma, metastatic NOS |
| 29787 | BB2C.00 | [M]Squamous cell carcinoma, keratinising type NOS |
| 57513 | BB2C.11 | [M]Epidermoid carcinoma, keratinising type |
| 59143 | BB2D.00 | [M]Squamous cell carcinoma, large cell, non-keratinising |
| 41816 | BB2E.00 | [M]Squamous cell carcinoma, small cell, non-keratinising |
| 45458 | BB2F.00 | [M]Squamous cell carcinoma, spindle cell type |
| 31004 | BB2G.00 | [M]Adenoid squamous cell carcinoma |
| 45510 | BB2M.00 | [M]Lymphoepithelial carcinoma |
| 35457 | BB35.00 | [M]Basosquamous carcinoma |
| 13574 | BB36.00 | [M]Metatypical carcinoma |
| 1950 | BB400 | [M]Transitional cell papillomas and carcinomas |
| 6436 | BB43.00 | [M]Transitional cell carcinoma NOS |
| 12388 | BB43.11 | [M]Urothelial carcinoma |
| 100111 | BB46.00 | [M]Schneiderian carcinoma |
| 58798 | BB47.00 | [M]Transitional cell carcinoma, spindle cell type |
| 38454 | BB48.00 | [M]Basaloid carcinoma |
| 65216 | BB49.00 | [M]Cloacogenic carcinoma |
| 9712 | BB4A.00 | [M]Papillary transitional cell carcinoma |

| Medcode | Read Code | Description |
|---------|-----------|---|
| 33897 | BB4z.00 | [M]Transitional cell papilloma or carcinoma NOS |
| 19091 | BB500 | [M]Adenomas and adenocarcinomas |
| 2272 | BB511 | [M]Adenocarcinomas |
| 37137 | BB51100 | [M]Adenocarcinoma in situ in tubulovillous adenoma |
| 8930 | BB52.00 | [M]Adenocarcinoma NOS |
| 44778 | BB52000 | [M]Adenocarcinoma in tubulovillous adenoma |
| 5455 | BB53.00 | [M]Adenocarcinoma, metastatic, NOS |
| 48223 | BB54.00 | [M]Scirrhous adenocarcinoma |
| 71895 | BB56.00 | [M]Superficial spreading adenocarcinoma |
| 28272 | BB57.00 | [M]Adenocarcinoma, intestinal type |
| 59240 | BB58.00 | [M]Carcinoma, diffuse type |
| 8101 | BB5a.00 | [M]Renal adenoma and carcinoma |
| 10668 | BB5a000 | [M]Renal cell carcinoma |
| 35467 | BB5az00 | [M]Renal adenoma or carcinoma NOS |
| 8032 | BB5B.00 | [M]Pancreatic adenomas and carcinomas |
| 34096 | BB5b.00 | [M]Granular cell carcinoma |
| 63102 | BB5B100 | [M]Islet cell carcinoma |
| 95609 | BB5B300 | [M]Insulinoma, malignant |
| 32294 | BB5B500 | [M]Glucagonoma, malignant |
| 98825 | BB5B600 | [M]Mixed islet cell and exocrine adenocarcinoma |
| 21659 | BB5Bz00 | [M]Pancreatic adenoma or carcinoma NOS |
| 4217 | BB5c.00 | |
| | | [M]Parathyroid adenomas and adenocarcinomas |
| 26858 | BB5C.00 | [M]Gastrinoma and carcinomas |
| 49629 | BB5C100 | [M]Gastrinoma, malignant |
| 42169 | BB5cz00 | [M]Parathyroid adenoma or adenocarcinoma NOS |
| 43594 | BB5Cz00 | [M]Gastrinoma or carcinoma NOS |
| 36031 | BB5D.00 | [M]Hepatobiliary tract adenomas and carcinomas |
| 70516 | BB5D.11 | [M]Biliary tract adenomas and adenocarcinomas |
| 8711 | BB5D100 | [M]Cholangiocarcinoma |
| 40438 | BB5D111 | [M]Bile duct carcinoma |
| 41313 | BB5D300 | [M]Bile duct cystadenocarcinoma |
| 40240 | BB5D500 | [M]Hepatocellular carcinoma NOS |
| 26814 | BB5D512 | [M]Hepatoma, malignant |
| 25641 | BB5D513 | [M]Liver cell carcinoma |
| 107299 | BB5D700 | [M]Combined hepatocellular carcinoma and cholangiocarcinoma |
| 110147 | BB5D711 | [M]Hepatocholangiocarcinoma |
| 46771 | BB5D800 | [M]Hepatocellular carcinoma, fibrolamellar |
| 53987 | BB5Dz00 | [M]Hepatobiliary adenoma or carcinoma NOS |
| 111238 | BB5dz00 | [M]Mixed cell adenoma or adenocarcinoma NOS |
| 19263 | BB5f.00 | [M]Thyroid adenoma and adenocarcinoma |
| 98781 | BB5F.00 | [M]Trabecular adenocarcinoma |
| 21741 | BB5f100 | [M]Follicular adenocarcinoma NOS |
| 21847 | BB5f111 | [M]Follicular carcinoma |
| 59918 | BB5f200 | [M]Follicular adenocarcinoma, well differentiated type |
| 61467 | BB5f300 | [M]Follicular adenocarcinoma, trabecular type |

| Medcode | Read Code | Description |
|---------|-----------|--|
| 46761 | BB5f600 | [M]Papillary and follicular adenocarcinoma |
| 68757 | BB5f700 | [M]Nonencapsulated sclerosing carcinoma |
| 38685 | BB5fz00 | [M]Thyroid adenoma or adenocarcinoma NOS |
| 60775 | BB5h100 | [M]Adrenal cortical carcinoma |
| 8606 | BB5j.00 | [M]Endometrioid adenomas and carcinomas |
| 33775 | BB5J.00 | [M]Adenoid cystic carcinoma |
| 34879 | BB5J.11 | [M]Cylindroid adenocarcinoma |
| 35747 | BB5j100 | [M]Endometrioid adenoma, borderline malignancy |
| 9447 | BB5j200 | [M]Endometrioid carcinoma |
| 103034 | BB5j500 | [M]Endometrioid adenofibroma, malignant |
| 28388 | BB5jz00 | [M]Endometrioid adenoma or carcinoma NOS |
| 50140 | BB5K.00 | [M]Cribriform carcinoma |
| 18255 | BB5L.00 | [M]Adenomatous and adenocarcinomatous polyps |
| 52326 | BB5L100 | [M]Adenocarcinoma in adenomatous polyp |
| 73434 | BB5L300 | [M]Adenocarcinoma in multiple adenomatous polyps |
| 36286 | BB5Lz00 | [M]Adenomatous or adenocarcinomatous polyp NOS |
| 6746 | BB5M.00 | [M]Tubular adenomas and adenocarcinomas |
| 60045 | BB5M100 | [M]Tubular adenocarcinoma |
| 39148 | BB5Mz00 | [M]Tubular adenoma or adenocarcinoma NOS |
| 41702 | BB5N.00 | [M]Adenomatous and adenocarcinomatous polyps of colon |
| 19731 | BB5N.11 | [M]Adenoma or or adenocarcinoma in polyposis coli |
| 73275 | BB5N100 | [M]Adenocarcinoma in adenomatous polposis coli |
| 39875 | BB5Nz00 | [M]Adenomatous or adenocarcinomatous polyps of the colon NOS |
| 94083 | BB5P.00 | [M]Solid carcinoma NOS |
| 34110 | BB5R100 | [M]Carcinoid tumour, malignant |
| 111172 | BB5R300 | [M]Carcinoid tumour, argentaffin, malignant |
| 100625 | BB5R500 | [M]Carcinoid tumour, nonargentaffin, malignant |
| 55468 | BB5R600 | [M]Mucocarcinoid tumour, malignant |
| 26253 | BB5R900 | [M]Neuroendocrine carcinoma |
| 32641 | BB5RA00 | [M]Merkel cell carcinoma |
| 26848 | BB5S.00 | [M]Respiratory tract adenomas and adenocarcinomas |
| 34015 | BB5S200 | [M]Bronchiolo-alveolar adenocarcinoma |
| 36530 | BB5S211 | [M]Alveolar cell carcinoma |
| 16723 | BB5S212 | [M]Bronchiolar carcinoma |
| 57802 | BB5S400 | [M]Alveolar adenocarcinoma |
| 36221 | BB5Sz00 | [M]Respiratory tract adenoma or adenocarcinoma NOS |
| 42273 | BB5T.00 | [M]Papillary adenomas and adenocarcinomas |
| 35348 | BB5T100 | [M]Papillary adenocarcinoma NOS |
| 96494 | BB5Tz00 | [M]Papillary adenoma or adenocarcinoma NOS |
| 6920 | BB5U.00 | [M]Villous adenomas and adenocarcinomas |
| 67342 | BB5U100 | [M]Adenocarcinoma in villous adenoma |
| 27849 | BB5U200 | [M]Villous adenocarcinoma |
| 50108 | BB5Uz00 | [M]Villous adenoma or adenocarcinoma NOS |
| 26120 | BB5V.00 | [M]Pituitary adenomas and carcinomas |
| 68456 | BB5V100 | [M]Chromophobe carcinoma |

| Medcode | Read Code | Description |
|---------|-----------|---|
| 36876 | BB5V311 | [M]Eosinophil carcinoma |
| 72277 | BB5V700 | [M]Basophil carcinoma |
| 40622 | BB5V711 | [M]Mucoid cell carcinoma |
| 57422 | BB5Vz00 | [M]Pituitary adenoma or carcinoma NOS |
| 62199 | BB5W.00 | [M]Oxyphilic adenomas and adenocarcinomas |
| 71497 | BB5W100 | [M]Oxyphilic adenocarcinoma |
| 29008 | BB5W111 | [M]Hurthle cell adenocarcinoma |
| 53129 | BB5W112 | [M]Oncytic adenocarcinoma |
| 73662 | BB5Wz00 | [M]Oxyphilic adenoma or adenocarcinoma NOS |
| 36882 | BB5X.00 | [M]Clear cell adenomas and adenocarcinomas |
| 37354 | BB5X100 | [M]Clear cell adenocarcinoma NOS |
| 72192 | BB5Xz00 | [M]Clear cell adenoma or adenocarcinoma NOS |
| 35975 | BB5z.00 | [M]Adenoma or adenocarcinoma NOS |
| 68783 | BB60100 | [M]Skin appendage carcinoma |
| 52496 | BB61.00 | [M]Sweat gland adenoma and adenocarcinomas |
| 71627 | BB61200 | [M]Sweat gland adenocarcinoma |
| 24312 | BB62.00 | [M]Apocrine adenoma and adenocarcinomas |
| 38575 | BB62100 | [M]Apocrine adenocarcinoma |
| 104973 | BB62z00 | [M]Apocrine adenoma or adenocarcinoma NOS |
| 28291 | BB69.00 | [M]Sebaceous adenoma and adenocarcinoma |
| 34269 | BB69100 | [M]Sebaceous adenocarcinoma |
| 91842 | BB69z00 | [M]Sebaceous adenoma or adenocarcinoma NOS |
| 67913 | BB6A.00 | [M]Ceruminous adenoma and adenocarcinoma |
| 28625 | BB71.00 | [M]Mucoepidermoid carcinoma |
| 34984 | BB80.00 | [M]Cystadenoma and carcinoma |
| 34000 | BB80100 | [M]Cystadenocarcinoma NOS |
| 65207 | BB80z00 | [M]Cystadenoma or carcinoma NOS |
| 17151 | BB81.11 | [M]Ovarian cystadenoma or carcinoma |
| 38442 | BB81200 | [M]Serous cystadenocarcinoma, NOS |
| 65051 | BB81500 | [M]Papillary cystadenocarcinoma, NOS |
| 44930 | BB81800 | [M]Papillary serous cystadenocarcinoma |
| 95150 | BB81B00 | [M]Serous surface papillary carcinoma |
| 51656 | BB81E00 | [M]Mucinous cystadenocarcinoma NOS |
| 66876 | BB81E11 | [M]Pseudomucinous adenocarcinoma |
| 54749 | BB81H00 | [M]Papillary mucinous cystadenocarcinoma |
| 40632 | BB82.00 | [M]Mucinous adenoma and adenocarcinoma |
| 12497 | BB82100 | [M]Mucinous adenocarcinoma |
| 30416 | BB82111 | [M]Colloid adenocarcinoma |
| 95008 | BB82112 | [M]Gelatinous adenocarcinoma |
| 59284 | BB82114 | [M]Mucous adenocarcinoma |
| 64796 | BB82z00 | [M]Mucinous adenoma or adenocarcinoma NOS |
| 44074 | BB84.00 | [M]Mucin-producing adenocarcinoma |
| 39038 | BB85.00 | [M]Signet ring carcinoma |
| 61588 | BB85000 | [M]Signet ring cell carcinoma |
| 54874 | BB85100 | [M]Metastatic signet ring cell carcinoma |

| Medcode | Read Code | Description |
|---------|--------------------|---|
| 94438 | BB85z00 | [M]Signet ring carcinoma NOS |
| 27728 | BB90.00 | [M]Intraductal carcinoma, noninfiltrating NOS |
| 8351 | BB91.00 | [M]Infiltrating duct carcinoma |
| 21833 | BB91.11 | [M]Duct carcinoma NOS |
| 30189 | BB91000 | [M]Intraductal papillary adenocarcinoma with invasion |
| 39760 | BB91100 | [M]Infiltrating duct and lobular carcinoma |
| 62871 | BB92.00 | [M]Comedocarcinoma, noninfiltrating |
| 58131 | BB93.00 | [M]Comedocarcinoma NOS |
| 40359 | BB94.00 | [M]Juvenile breast carcinoma |
| 67701 | BB94.11 | [M]Secretory breast carcinoma |
| 102593 | BB96.00 | [M]Noninfiltrating intraductal papillary adenocarcinoma |
| 16677 | BB9B.00 | [M]Medullary carcinoma NOS |
| 47920 | BB9B.11 | [M]C cell carcinoma |
| 50946 | BB9C.00 | [M]Medullary carcinoma with amyloid stroma |
| 98883 | BB9D.00 | [M]Medullary carcinoma with lymphoid stroma |
| 12427 | BB9F.00 | [M]Lobular carcinoma NOS |
| 7319 | BB9G.00 | [M]Infiltrating ductular carcinoma |
| 32472 | BB9H.00 | [M]Inflammatory carcinoma |
| 42542 | BB9K.00 | [M]Paget's disease and infiltrating breast duct carcinoma |
| 12480 | BB9K000 | [M]Paget's disease and intraductal carcinoma of breast |
| 3969 | BB9M.00 | [M]Intracystic carcinoma NOS |
| 28178 | BBa0.00 | [M]Craniopharyngioma |
| 37688 | BBA2.00 | [M]Acinar cell carcinoma |
| 64874 | BBa4.00 | [M]Melanotic neuroectodermal tumour |
| 12309 | BBb00 | [M]Gliomas |
| 12580 | BBB0.00 | [M]Adenosquamous carcinoma |
| 31574 | BBb0.00 | [M]Glioma, malignant |
| 8523 | BBb0.00 | [M]Glioma NOS |
| 34252 | BBb0.11 | [M]Gliosarcoma |
| 3710 | BBB1.00 | [M]Adenolymphoma |
| 38551 | BBb1.00 | [M]Gliomatosis cerebri |
| 16146 | BBB2.00 | [M]Adenocarcinoma with squamous metaplasia |
| 68808 | BBb2.00 | [M]Mixed glioma |
| 39386 | BBb2.11 | [M]Mixed glioma |
| 42553 | BBB3.00 | [M]Adenocarcinoma with cartilaginous and osseous metaplasia |
| 94267 | BBb3.00 | [M]Subependymal glioma |
| 90487 | BBb3.11 | [M]Subependymal astrocytoma NOS |
| 28344 | BBb3.11 BBb3.12 | [M]Subependymal astrocytoma NOS |
| 49168 | BBb3.12 BBb4.00 | [M]Subependymal giant cell astrocytoma |
| 94810 | BBB4.00 | [M]Adenocarcinoma with spindle cell metaplasia |
| 66000 | BBB5.00 | [M]Adenocarcinoma with apocrine metaplasia |
| 59415 | BBB5.00 BBB6100 | [M]Thymoma, malignant |
| 38770 | BBB7.00 | [M]Epithelial-myoepithelial carcinoma |
| 41695 | BBba.00 | [M]Primitive neuroectodermal tumour |
| 107884 | BBba.00 BBba000 | [M]Peripheral neuroectodermal tumour |
| 10/884 | UUUbudd | |

| Medcode | Read Code | Description |
|---------|-----------|--|
| 8547 | BBbB.00 | [M]Astrocytoma NOS |
| 27748 | BBbB.11 | [M]Astrocytic glioma |
| 8328 | BBbC.00 | [M]Astrocytoma, anaplastic type |
| 45531 | BBbE.00 | [M]Gemistocytic astrocytoma |
| 27846 | BBbF.00 | [M]Fibrillary astrocytoma |
| 30273 | BBbG.00 | [M]Pilocytic astrocytoma |
| 61783 | BBbG.11 | [M]Juvenile astrocytoma |
| 98800 | BBbG.12 | [M]Piloid astrocytoma |
| 23083 | BBbL.00 | [M]Glioblastoma NOS |
| 9575 | BBbL.11 | [M]Glioblastoma multiforme |
| 66064 | BBbM.00 | [M]Giant cell glioblastoma |
| 27744 | BBbQ.00 | [M]Oligodendroglioma NOS |
| 49186 | BBbR.00 | [M]Oligodendroglioma, anaplastic type |
| 34763 | BBbT.00 | [M]Medulloblastoma NOS |
| 65952 | BBbU.00 | [M]Desmoplastic medulloblastoma |
| 37473 | BBbW.00 | [M]Cerebellar sarcoma NOS |
| 27653 | BBbz.00 | [M]Glioma NOS |
| 67587 | BBbZ.00 | [M]Pleomorphic xanthoastrocytoma |
| 32357 | BBc0.00 | [M]Ganglioneuromatous neoplasms |
| 34713 | BBc0000 | [M]Ganglioneuroma |
| 39121 | BBc0100 | [M]Ganglioneuroblastoma |
| 62567 | BBc0200 | [M]Ganglioneuromatosis |
| 2123 | BBc1.00 | [M]Neuroblastoma NOS |
| 31609 | BBC4.00 | [M]Granulosa cell tumour, malignant |
| 31629 | BBc6.00 | [M]Ganglioglioma |
| 68479 | BBc7.11 | [M]Neuroastrocytoma |
| 28836 | BBc9.00 | [M]Retinoblastomas |
| 103883 | BBc9100 | [M]Retinoblastoma, undifferentiated type |
| 48952 | BBc9z00 | [M]Retinoblastoma NOS |
| 29580 | BBCA.00 | [M]Sertoli cell carcinoma |
| 51878 | BBcC.00 | [M]Aesthesioneuroblastoma |
| 39388 | BBcC.11 | [M]Olfactory neuroblastoma |
| 95373 | BBCC100 | [M]Leydig cell tumour, malignant |
| 24924 | BBD00 | [M]Paragangliomas and glomus tumours |
| 10913 | BBD0.00 | [M]Paraganglioma NOS |
| 95818 | BBD1.00 | [M]Paraganglioma, malignant |
| 27363 | BBd2.00 | [M]Meningioma, malignant |
| 60347 | BBd2.11 | [M]Leptomeningeal sarcoma |
| 96798 | BBd2.12 | [M]Meningothelial sarcoma |
| 101342 | BBD3.00 | [M]Parasympathetic paraganglioma |
| 70320 | BBD4.11 | [M]Jugular paraganglioma |
| 93717 | BBD7.00 | [M]Extra-adrenal paraganglioma, NOS |
| 109110 | BBD9.11 | [M]Chromaffin paraganglioma |
| 65047 | BBDA.00 | [M]Phaeochromocytoma, malignant |
| 50605 | BBDB.00 | [M]Glomangiosarcoma |

| Medcode | Read Code | Description |
|---------|-----------|---|
| 106134 | BBdB.00 | [M]Meningeal sarcomatosis |
| 105166 | BBDB.11 | [M]Glomoid sarcoma |
| 52070 | BBDE.00 | [M]Gangliocytic paraganglioma |
| 69421 | BBDz.00 | [M]Paraganglioma or glomus tumour NOS |
| 579 | BBE1.00 | [M]Malignant melanoma NOS |
| 765 | BBe1.00 | [M]Neurofibromatosis NOS |
| 24551 | BBE1.11 | [M]Melanocarcinoma |
| 36785 | BBe1.11 | [M]Multiple neurofibromatosis |
| 23455 | BBe1.12 | [M]Von Recklinghausen's disease |
| 44157 | BBE1.13 | [M]Melanosarcoma NOS |
| 67966 | BBE1.14 | [M]Naevocarcinoma |
| 51353 | BBE1000 | [M]Malignant melanoma, regressing |
| 58835 | BBE1100 | [M]Desmoplastic melanoma, malignant |
| 62941 | BBe2.00 | [M]Neurofibrosarcoma |
| 69981 | BBe7.00 | [M]Neurilemmoma, malignant |
| 37477 | BBe7.11 | [M]Schwannoma, malignant |
| 40492 | BBe9.00 | [M]Triton tumour, malignant |
| 63574 | BBEC.00 | [M]Malignant melanoma in junctional naevus |
| 62088 | BBEG.00 | [M]Malignant melanoma in Hutchinson's melanotic freckle |
| 22692 | BBEG000 | [M]Acral lentiginous melanoma, malignant |
| 73251 | BBEM.00 | [M]Malignant melanoma in giant pigmented naevus |
| 68447 | BBEV.00 | [M]Blue naevus, malignant |
| 17366 | BBF00 | [M]Soft tissue tumours and sarcomas NOS |
| 41803 | BBf00 | [M]Granular cell tumours and alveolar soft part sarcoma |
| 8085 | BBF1.00 | [M]Sarcoma NOS |
| 34891 | BBF2.00 | [M]Sarcomatosis NOS |
| 71869 | BBf2.00 | [M]Alveolar soft part sarcoma |
| 31026 | BBF3.00 | [M]Spindle cell sarcoma |
| 97463 | BBF4.00 | [M]Giant cell sarcoma (except of bone) |
| 46581 | BBF4.11 | [M]Pleomorphic cell sarcoma |
| 58837 | BBF5.00 | [M]Small cell sarcoma |
| 69844 | BBF5.11 | [M]Round cell sarcoma |
| 62396 | BBF6.00 | [M]Epithelioid cell sarcoma |
| 55116 | BBFz.00 | [M]Soft tissue tumour or sarcoma NOS |
| 17178 | BBg00 | [M]Lymphomas, NOS or diffuse |
| 49131 | BBg0.00 | [M]Lymphomatous tumour, benign |
| 31323 | BBG1.00 | [M]Fibrosarcoma NOS |
| 36114 | BBg1.00 | [M]Malignant lymphoma NOS |
| 1483 | BBg1.11 | [M]Lymphoma NOS |
| 23711 | BBg1000 | [M]Malignant lymphoma, diffuse NOS |
| 16460 | BBg2.00 | [M]Malignant lymphoma, non Hodgkin's type |
| 3371 | BBg2.11 | [M]Non Hodgkins lymphoma |
| 8088 | BBG3.00 | [M]Fibromyxosarcoma |
| 71117 | BBg3.00 | [M]Malignant lymphoma, undifferentiated cell type NOS |
| 46931 | BBg4.00 | [M]Malignant lymphoma, stem cell type |

| Medcode | Read Code | Description |
|---------|--------------------|--|
| 69301 | BBg5.00 | [M]Malignant lymphoma, convoluted cell type NOS |
| 99655 | BBg6.00 | [M]Lymphosarcoma NOS |
| 41754 | BBg7.00 | [M]Malignant lymphoma, lymphoplasmacytoid type |
| 48253 | BBg8.00 | [M]Malignant lymphoma, immunoblastic type |
| 95024 | BBG8.00 | [M]Infantile fibrosarcoma |
| 94286 | BBG8.11 | [M]Congenital fibrosarcoma |
| 68964 | BBgA.00 | [M]Malignant lymphoma, centroblastic-centrocytic, diffuse |
| 41841 | BBgB.00 | [M]Malignant lymphoma, follicular centre cell NOS |
| 69980 | BBgC.00 | [M]Malignant lymphoma, lymphocytic, well differentiated NOS |
| 21463 | BBgC.11 | [M]Lymphocytic lymphoma NOS |
| 60504 | BBgC.12 | [M]Lymphocytic lymphosarcoma NOS |
| 51852 | BBgD.00 | [M]Malig lymphoma, lymphocytic, intermediate different NOS |
| 39906 | BBgE.00 | [M]Malignant lymphoma, centrocytic |
| 37680 | BBGF.00 | [M]Fibrous histiocytoma, malignant |
| 72196 | BBgG.00 | [M]Malignant lymphoma, lymphocytic, poorly different NOS |
| 67203 | BBgG.11 | [M]Lymphoblastic lymphosarcoma NOS |
| 34352 | BBgG.12 | [M]Lymphoblastic lymphoma NOS |
| 72241 | BBgH.00 | [M]Prolymphocytic lymphosarcoma |
| 60275 | BBgJ.00 | [M]Malignant lymphoma, centroblastic type NOS |
| 96231 | BBGJ.00 | [M]Fibroxanthoma, malignant |
| 35034 | BBGJ.11 | [M]Fibroxanthosarcoma |
| 108682 | BBgJ.11 | [M]Germinoblastic sarcoma NOS |
| 66603 | BBgK.00 | [M]Malig lymphoma, follicular centre cell, non-cleaved NOS |
| 46877 | BBgL.00 | [M]Malignant lymphoma, small lymphocytic NOS |
| 31726 | BBgM.00 | [M]Malignant lymphoma, small cleaved cell, diffuse |
| 31772 | BBGM.00 | [M]Dermatofibrosarcoma NOS |
| 61251 | BBgN.00 | [M]Malign lymphoma,lymphocytic,intermediate differn, diffuse |
| 31090 | BBGP.00 | [M]Pigmented dermatofibrosarcoma protuberans |
| 71652 | BBgP.00 | [M]Malignant lymphoma, mixed small and large cell, diffuse |
| 58015 | BBgQ.00 | [M]Malignant lymphomatous polyposis |
| 33869 | BBgR.00 | [M]Malignant lymphoma, large cell, diffuse NOS |
| 63994 | BBgS.00 | [M]Malignant lymphoma, large cell, cleaved, diffuse |
| 71619 | BBgT.00 | [M]Malignant lymphoma, large cell, noncleaved, diffuse |
| 51680 | BBgV.00 | [M]Malignant lymphoma, small cell, noncleaved, diffuse |
| 51895 | BBgz.00 | [M]Lymphoma, diffuse or NOS |
| 106137 | BBh00 | [M]Reticulosarcomas |
| 72433 | BBh0.00 | [M]Reticulosarcoma NOS |
| 49825 | BBh0.00 | [M]Reticulum cell sarcoma NOS |
| 21732 | BBH1.00 | [M]Myxosarcoma |
| 100544 | BBh1.00 BBh2.00 | [M]Reticulosarcoma, nodular |
| 20710 | BBii2.00 BBj00 | [M]Hodgkin's disease |
| 61997 | ввј00 ввј0.00 | [M]Hodgkin's disease [M]Hodgkin's disease NOS |
| 101429 | выј0.00 ВВј0.11 | [M]Lymphogranuloma, malignant |
| 28599 | BBJ1.00 | [M]Liposarcoma NOS |
| | | [M]Liposarcoma NOS [M]Hodgkin's disease, lymphocytic predominance |
| 56041 | BBj1.00 | Elivijhougkin slušease, lymphocytic predominance |

| Medcode | Read Code | Description |
|---------|-----------|--|
| 101923 | BBJ1.11 | [M]Fibroliposarcoma |
| 65584 | BBj1000 | [M]Hodgkin,s disease, lymphocytic predominance, diffuse |
| 31537 | BBj1100 | [M]Hodgkin,s disease, lymphocytic predominance, nodular |
| 51285 | BBj2.00 | [M]Hodgkin's disease, mixed cellularity |
| 28628 | BBJ3.00 | [M]Liposarcoma, well differentiated type |
| 111113 | BBj3.00 | [M]Hodgkin's disease, lymphocytic depletion NOS |
| 96183 | BBj4.00 | [M]Hodgkin's disease,lymphocytic depletion,diffuse fibrosis |
| 56676 | BBJ5.00 | [M]Myxoid liposarcoma |
| 60127 | BBJ5.12 | [M]Myxoliposarcoma |
| 42198 | BBj6.00 | [M]Hodgkin's disease, nodular sclerosis NOS |
| 103708 | BBJ6.00 | [M]Round cell liposarcoma |
| 40508 | BBj6000 | [M]Hodgkin,s disease, nodular sclerosis, lymphocytic predom |
| 64343 | BBj6100 | [M]Hodgkin,s disease, nodular sclerosis, mixed cellularity |
| 31741 | BBj6200 | [M]Hodgkin,s disease, nodular sclerosis, lymphocytic deplet |
| 55947 | BBJ7.00 | [M]Pleomorphic liposarcoma |
| 99200 | BBj7.00 | [M]Hodgkin's disease, nodular sclerosis, cellular phase |
| 59651 | BBJ8.00 | [M]Mixed type liposarcoma |
| 89230 | BBj9.00 | [M]Hodgkin's granuloma |
| 7856 | BBJH.00 | [M]Dedifferentiated liposarcoma |
| 42769 | BBjz.00 | [M]Hodgkin's disease NOS |
| 20437 | BBk00 | [M]Lymphomas, nodular or follicular |
| 63699 | BBk0.00 | [M]Malignant lymphoma, nodular NOS |
| 27562 | BBk0.12 | [M]Follicular lymphosarcoma NOS |
| 49253 | BBk0.13 | [M]Giant follicular lymphoma |
| 10588 | BBK0200 | [M]Leiomyosarcoma NOS |
| 73916 | BBK0400 | [M]Epithelioid leiomyosarcoma |
| 64596 | BBK0700 | [M]Myxoid leiomyosarcoma |
| 67019 | BBK1100 | [M]Angiomyosarcoma |
| 31818 | BBK2.00 | [M]Myoma and myosarcoma |
| 98961 | BBk2.00 | [M]Malignant lymphoma, centroblastic-centrocytic, follicular |
| 55268 | BBK2100 | [M]Myosarcoma |
| 68999 | BBK2z00 | [M]Myoma or myosarcoma NOS |
| 106970 | BBk3.00 | [M]Malig lymphoma, lymphocytic, well differentiated, nodular |
| 31421 | BBK3100 | [M]Rhabdomyosarcoma NOS |
| 57505 | BBK3200 | [M]Pleomorphic rhabdomyosarcoma |
| 105944 | BBK3300 | [M]Mixed cell rhabdomyosarcoma |
| 48275 | BBK3600 | [M]Embryonal rhabdomyosarcoma |
| 63247 | BBK3611 | [M]Sarcoma botryoides |
| 42082 | BBK3700 | [M]Alveolar rhabdomyosarcoma |
| 97852 | BBk7.00 | [M]Malignant lymphoma, centroblastic type, follicular |
| 40513 | BBkz.00 | [M]Lymphoma, nodular or follicular NOS |
| 34030 | BBL0.00 | [M]Endometrial stromal sarcoma |
| 66607 | BBL4.00 | [M]Mixed tumour, malignant, NOS |
| 36870 | BBL7111 | [M]Adenosarcoma |
| 17314 | BBL7112 | [M]Wilms' tumour |

| Medcode | Read Code | Description |
|---------|-----------|--|
| 57677 | BBL8.00 | [M]Hepatoblastoma |
| 19334 | BBL9.00 | [M]Carcinosarcoma NOS |
| 67934 | BBLA.00 | [M]Carcinosarcoma, embryonal type |
| 87003 | BBLC100 | [M]Mesenchymoma, malignant |
| 98797 | BBLD.00 | [M]Embryonal sarcoma |
| 63518 | BBLE.00 | [M]Adenosarcoma |
| 37510 | BBLG.00 | [M]Carcinoma in pleomorphic adenoma |
| 17212 | BBLH.00 | [M]Rhabdoid sarcoma |
| 18771 | BBLJ.00 | [M]Clear cell sarcoma of kidney |
| 63973 | BBm0.00 | [M]Microglioma |
| 70383 | BBM0100 | [M]Brenner tumour, malignant |
| 63239 | BBm1.00 | [M]Malignant histiocytosis |
| 70740 | BBm1.11 | [M]Malignant reticulosis |
| 57544 | BBm4.00 | [M]True histiocytic lymphoma |
| 40766 | BBm5.00 | [M] Peripheral T-cell lymphoma NOS |
| 36242 | BBM7.11 | [M]Cystosarcoma phyllodes, benign |
| 39312 | BBM8.00 | [M]Cystosarcoma phyllodes NOS |
| 31492 | BBm9.00 | [M] Monocytoid B-cell lymphoma |
| 59251 | BBM9.00 | [M]Cystosarcoma phyllodes, malignant |
| 16774 | BBmD.00 | [M] Cutaneous lymphoma |
| 18383 | BBmH.00 | [M] Large cell lymphoma |
| 18744 | BBn0.11 | [M]Multiple myeloma |
| 50379 | BBN1.00 | [M]Synovial sarcoma NOS |
| 105073 | BBN2.00 | [M]Synovial sarcoma, spindle cell type |
| 99702 | BBn3.00 | [M]Plasma cell tumour, malignant |
| 57796 | BBN4.00 | [M]Synovial sarcoma, biphasic type |
| 63286 | BBN5.00 | [M]Clear cell sarcoma of tendons and aponeuroses |
| 70951 | BBP0.00 | [M]Mesothelioma, benign |
| 27509 | BBP1.00 | [M]Mesothelioma, malignant |
| 94239 | BBp1.00 | [M]Mast cell sarcoma |
| 67339 | BBp2.00 | [M]Malignant mastocytosis |
| 96515 | BBP2.00 | [M]Fibrous mesothelioma, benign |
| 104720 | BBP3.11 | [M]Sarcomatoid mesothelioma |
| 100375 | BBP4.00 | [M]Epithelioid mesothelioma, benign |
| 47734 | BBP5.00 | [M]Epithelioid mesothelioma, malignant |
| 86820 | BBP7.00 | [M]Mesothelioma, biphasic type, malignant |
| 38756 | BBP9.00 | [M]Cystic mesothelioma |
| 21770 | BBPX.00 | [M]Mesothelioma, unspecified |
| 17468 | BBQ00 | [M]Germ cell neoplasms |
| 7476 | BBQ1.00 | [M]Seminomas |
| 57084 | BBQ1000 | [M]Seminoma, anaplastic type |
| 35223 | BBQ1100 | [M]Spermatocytic seminoma |
| 9859 | BBQ1z00 | [M]Seminoma NOS |
| 28941 | BBQ3.00 | [M]Embryonal carcinoma NOS |
| 104147 | BBQ4.11 | [M]Infantile embryonal carcinoma |

| Medcode | Read Code | Description |
|---------|-----------|---|
| 33636 | BBQ7200 | [M]Teratoma, malignant, NOS |
| 52493 | BBQ7213 | [M]Teratoblastoma, malignant |
| 37542 | BBQ7300 | [M]Teratocarcinoma |
| 61542 | BBQ7400 | [M]Malignant teratoma, undifferentiated type |
| 21682 | BBQ7500 | [M]Malignant teratoma, intermediate type |
| 65861 | BBQ9.00 | [M]Dermoid cyst with malignant transformation |
| 71301 | BBQA100 | [M]Struma ovarii, malignant |
| 35071 | BBQB.00 | [M]Mixed germ cell tumour |
| 43582 | BBQz.00 | [M]Germ cell neoplasm NOS |
| 4637 | BBr00 | [M]Leukaemias |
| 40420 | BBr0.00 | [M]Leukaemias unspecified |
| 41734 | BBr0000 | [M]Leukaemia NOS |
| 6316 | BBr0100 | [M]Acute leukaemia NOS |
| 22071 | BBr0111 | [M]Blast cell leukaemia |
| 64963 | BBr0112 | [M]Blastic leukaemia |
| 63570 | BBr0113 | [M]Stem cell leukaemia |
| 72179 | BBr0200 | [M]Subacute leukaemia NOS |
| 31750 | BBr0300 | [M]Chronic leukaemia NOS |
| 72310 | BBr0400 | [M]Aleukaemic leukaemia NOS |
| 59929 | BBr0z00 | [M]Leukaemia unspecified, NOS |
| 48155 | BBr2.00 | [M]Lymphoid leukaemias |
| 67712 | BBR2.00 | [M]Choriocarcinoma |
| 12146 | BBr2000 | [M]Lymphoid leukaemia NOS |
| 20635 | BBr2011 | [M]Lymphatic leukaemia |
| 37410 | BBr2100 | [M]Acute lymphoid leukaemia |
| 41500 | BBr2300 | [M]Chronic lymphoid leukaemia |
| 46048 | BBr2500 | [M]Prolymphocytic leukaemia |
| 50928 | BBr2600 | [M]Burkitt's cell leukaemia |
| 29335 | BBr2700 | [M]Adult T-cell leukaemia/lymphoma |
| 54627 | BBR3.00 | [M]Choriocarcinoma combined with teratoma |
| 64618 | BBr3.00 | [M]Plasma cell leukaemias |
| 110349 | BBr3z00 | [M]Plasma cell leukaemia NOS |
| 29945 | BBR4.00 | [M]Malignant teratoma, trophoblastic |
| 46444 | BBr4.00 | [M]Erythroleukaemias |
| 70935 | BBr4000 | [M]Erythroleukaemia |
| 100927 | BBr4z00 | [M]Erythroleukaemia NOS |
| 35697 | BBr6.00 | [M]Myeloid leukaemias |
| 71850 | BBr6000 | [M]Myeloid leukaemia NOS |
| 37723 | BBr6011 | [M]Granulocytic leukaemia NOS |
| 54585 | BBr6100 | [M]Acute myeloid leukaemia |
| 106483 | BBr6200 | [M]Subacute myeloid leukaemia |
| 52942 | BBr6300 | [M]Chronic myeloid leukaemia |
| 66694 | BBr6311 | [M]Naegeli-type monocytic leukaemia |
| 57316 | BBr6600 | [M]Acute promyelocytic leukaemia |
| 46263 | BBr6700 | [M]Acute myelomonocytic leukaemia |

| Medcode | Read Code | Description |
|---------|-----------|---|
| 48049 | BBr6800 | [M]Chronic myelomonocytic leukaemia |
| 108964 | BBr6900 | [M]Juvenile myelomonocytic leukaemia |
| 62330 | BBr6z00 | [M]Other myeloid leukaemia NOS |
| 106197 | BBr7000 | [M]Basophilic leukaemia |
| 57713 | BBr8.00 | [M]Eosinophilic leukaemias |
| 71377 | BBr8000 | [M]Eosinophilic leukaemia |
| 107773 | BBr8z00 | [M]Eosinophilic leukaemia NOS |
| 73088 | BBr9000 | [M]Monocytic leukaemia NOS |
| 73066 | BBrA.00 | [M]Miscellaneous leukaemias |
| 72222 | BBrA100 | [M]Megakaryocytic leukaemia |
| 69299 | BBrA111 | [M]Thrombocytic leukaemia |
| 96893 | BBrA300 | [M]Myeloid sarcoma |
| 98009 | BBrA312 | [M]Granulocytic sarcoma |
| 5915 | BBrA400 | [M]Hairy cell leukaemia |
| 49327 | BBrA500 | [M]Acute megakaryoblastic leukaemia |
| 108316 | BBrAz00 | [M]Miscellaneous leukaemia NOS |
| 42297 | BBrz.00 | [M]Leukaemia NOS |
| 62348 | BBT1.00 | [M]Haemangiosarcoma |
| 22650 | BBT1.11 | [M]Angiosarcoma |
| 98322 | BBT7100 | [M]Haemangioendothelioma, malignant |
| 27439 | BBTA.00 | [M]Kaposi's sarcoma |
| 105296 | BBTD200 | [M]Haemangiopericytoma, malignant |
| 38481 | BBTK.00 | [M]Epithelioid haemangioendothelioma, malignant |
| 57729 | BBU1.00 | [M]Lymphangiosarcoma |
| 39522 | BBV00 | [M]Osteomas and osteosarcomas |
| 99665 | BBV11 | [M]Juxtacortical osteogenic sarcoma |
| 63571 | BBV12 | [M]Parosteal osteosarcoma |
| 105275 | BBV13 | [M]Periosteal osteogenic sarcoma |
| 31749 | BBv0.00 | [M]Monocytoid B-cell lymphoma |
| 8660 | BBV1.00 | [M]Osteosarcoma NOS |
| 49862 | BBV1.11 | [M]Osteoblastic sarcoma |
| 59310 | BBV1.12 | [M]Osteochondrosarcoma |
| 5052 | BBV1.13 | [M]Osteogenic sarcoma NOS |
| 24539 | BBV2.00 | [M]Chondroblastic osteosarcoma |
| 27965 | BBv2.00 | [M]AngiocentricT-cell lymphoma |
| 21447 | BBV3.00 | [M]Fibroblastic osteosarcoma |
| 22561 | BBV4.00 | [M]Telangiectatic osteosarcoma |
| 60631 | BBV5.00 | [M]Osteosarcoma in Paget's disease of bone |
| 4118 | BBV9.00 | [M]Myxoid chondrosarcoma |
| 29337 | BBVA.00 | [M] Small cell osteosarcoma |
| 48271 | BBVz.00 | [M]Osteoma or osteosarcoma NOS |
| 7941 | BBW4.00 | [M]Chondrosarcoma NOS |
| 68220 | BBW4.11 | [M]Fibrochondrosarcoma |
| 63659 | BBW6.00 | [M]Juxtacortical chondrosarcoma |
| 98559 | BBW8.00 | [M]Chondroblastoma, malignant |

| Medcode | Read Code | Description |
|---------|-----------|---|
| 52684 | BBW9.00 | [M]Mesenchymal chondrosarcoma |
| 68956 | BBX1.00 | [M]Giant cell tumour of bone, malignant |
| 50859 | BBX1.11 | [M]Giant cell bone sarcoma |
| 31673 | BBX1.12 | [M]Osteoclastoma, malignant |
| 99797 | BBX3.00 | [M]Malignant giant cell tumour of soft parts |
| 4473 | BBY0.00 | [M]Ewing's sarcoma |
| 49023 | BBY0.11 | [M]Endothelial bone sarcoma |
| 72443 | BBZ2.00 | [M]Odontogenic tumour, malignant |
| 93175 | BBZ2.11 | [M]Intraosseous carcinoma |
| 46741 | BBZC.00 | [M]Ameloblastic odontosarcoma |
| 97593 | BBZG.00 | [M]Ameloblastoma, malignant |
| 100267 | BBZG.11 | [M]Adamantinoma, malignant |
| 68730 | BBZN.00 | [M]Ameloblastic fibrosarcoma |
| 98483 | BBZN.11 | [M]Odontogenic fibrosarcoma |
| 58973 | Byu0.00 | [X]Malignant neoplasm of lip, oral cavity and pharynx |
| 35180 | Byu1.00 | [X]Malignant neoplasm of digestive organs |
| 43490 | Byu1100 | [X]Other specified carcinomas of liver |
| 45766 | Byu1200 | [X]Malignant neoplasm of intestinal tract, part unspecified |
| 49292 | Byu1300 | [X]Malignant neoplsm/ill-defin sites within digestive system |
| 35325 | Byu2.00 | [X]Malignant neoplasm of respiratory and intrathoracic orga |
| 40595 | Byu2000 | [X]Malignant neoplasm of bronchus or lung, unspecified |
| 66444 | Byu2100 | [X]Malignant neoplasm/overlap lesion/heart,mediastinm+pleura |
| 99096 | Byu2300 | [X]Malignant neopl/overlapping les/resp+intrathoracic organs |
| 86997 | Byu2400 | [X]Malignant neoplasm/ill-defined sites within resp system |
| 50292 | Byu2500 | [X]Malignant neoplasm of mediastinum, part unspecified |
| 40749 | Byu3.00 | [X]Malignant neoplasm of bone and articular cartilage |
| 73296 | Byu3100 | [X]Malignant neoplasm/bones+articular cartilage/limb,unspfd |
| 63300 | Byu3200 | [X]Malignant neoplasm/overlap lesion/bone+articulr cartilage |
| 43151 | Byu3300 | [X]Malignant neoplasm/bone+articular cartilage, unspecified |
| 19144 | Byu4.00 | [X]Melanoma and other malignant neoplasms of skin |
| 56925 | Byu4000 | [X]Malignant melanoma of other+unspecified parts of face |
| 19444 | Byu4100 | [X]Malignant melanoma of skin, unspecified |
| 57184 | Byu4200 | [X]Oth malignant neoplasm/skin of oth+unspecfd parts of face |
| 56121 | Byu4300 | [X]Malignant neoplasm of skin, unspecified |
| 40592 | Byu5.00 | [X]Malignant neoplasm of mesothelial and soft tissue |
| 67034 | Byu5000 | [X]Mesothelioma of other sites |
| 21715 | Byu5011 | [X]Mesothelioma of lung |
| 30526 | Byu5100 | [X]Mesothelioma, unspecified |
| 93665 | Byu5300 | [X]Kaposi's sarcoma, unspecified |
| 101668 | Byu5400 | [X]Malignant neoplasm/peripheral nerves of trunk, unspecified |
| 95671 | Byu5700 | [X]Malignant neoplasm of peritoneum, unspecified |
| 91457 | Byu5900 | [X]Malignant neoplasm/connective + soft tissue, unspecified |
| 60162 | Byu5A00 | [X]Malignant neoplasm overlapping lesion of skin |
| 98361 | Byu5B00 | [X]Kaposi's sarcoma of other sites |
| 12499 | Byu6.00 | [X]Malignant neoplasm of breast |

| Medcode | Read Code | Description |
|---------|--------------|--|
| 40598 | Byu7.00 | [X]Malignant neoplasm of female genital organs |
| 64497 | Byu7000 | [X]Malignant neoplasm of uterine adnexa, unspecified |
| 57756 | Byu7100 | [X]Malignant neoplasm/other specified female genital organs |
| 55588 | Byu7300 | [X]Malignant neoplasm of female genital organ, unspecified |
| 40671 | Byu8.00 | [X]Malignant neoplasm of male genital organs |
| 57191 | Byu8000 | [X]Malignant neoplasm/other specified male genital organs |
| 45262 | Byu8200 | [X]Malignant neoplasm of male genital organ, unspecified |
| 35113 | Byu9.00 | [X]Malignant neoplasm of urinary tract |
| 45260 | Byu9000 | [X]Malignant neoplasm of urinary organ, unspecified |
| 35285 | ByuA.00 | [X]Malignant neoplasm of eye, brain and other parts of cent |
| 68027 | ByuA000 | [X]Malignant neoplasm/other and unspecified cranial nerves |
| 41515 | ByuA100 | [X]Malignant neoplasm/central nervous system, unspecified |
| 63925 | ByuA200 | [X]Malignant neoplasm of meninges, unspecified |
| 64309 | ByuB100 | [X]Malignant neoplasm of endocrine gland, unspecified |
| 35186 | ByuC.00 | [X]Malignant neoplasm of ill-defined, secondary and unspeci |
| 39027 | ByuC000 | [X]Malignant neoplasm of other specified sites |
| 96226 | yuC100 | [X]Malignant neoplasm/overlap lesion/other+ill-defined sites |
| 66163 | ByuC200 | [X]2ndry+unspcf malignant neoplasm lymph nodes/multi regions |
| 57481 | ByuC300 | [X]Secondary malignant neoplasm/oth+unspc respiratory organs |
| 88022 | , ByuC400 | [X]Secondary malignant neoplasm/oth+unspcfd digestive organs |
| 97091 | ByuC500 | [X]2ndry malignant neoplasm/bladder+oth+unsp urinary organs |
| 68332 | yuC600 | [X]2ndry malignant neoplasm/oth+unspec parts/nervous system |
| 54253 | ByuC700 | [X]Secondary malignant neoplasm of other specified sites |
| 52029 | ByuC800 | [X]Malignant neoplasm without specification of site |
| 40740 | ByuD.00 | [X]Malignant neoplasms of lymphoid, haematopoietic and rela |
| 43415 | ByuD000 | [X]Other Hodgkin's disease |
| 67518 | ByuD100 | [X]Other types of follicular non-Hodgkin's lymphoma |
| 98596 | ByuD200 | [X]Other types of diffuse non-Hodgkin's lymphoma |
| 64336 | ByuD300 | [X]Other specified types of non-Hodgkin's lymphoma |
| 102688 | ByuD400 | [X]Other malignant immunoproliferative diseases |
| 67029 | ByuD500 | [X]Other lymphoid leukaemia |
| 61693 | ByuD600 | [X]Other myeloid leukaemia |
| 89762 | ByuD700 | [X]Other monocytic leukaemia |
| 89329 | ByuD800 | [X]Other specified leukaemias |
| 65165 | ByuD900 | [X]Other leukaemia of unspecified cell type |
| 64515 | ByuDC00 | [X]Diffuse non-Hodgkin's lymphoma, unspecified |
| 109714 | ByuDD00 | [X]Oth and unspecif peripheral & cutaneous T-cell lymphomas |
| 63375 | ByuDE00 | [X]Unspecified B-cell non-Hodgkin's lymphoma |
| 8649 | ByuDF00 | [X]Non-Hodgkin's lymphoma, unspecified type |
| 7940 | ByuDF11 | [X]Non-Hodgkin's lymphoma NOS |
| 63598 | ByuE.00 | [X]Malignant neoplasms/independent (primary) multiple sites |
| 64897 | ByuE000 | [X]Malignant neoplasms/independent(primary)multiple sites |
| 93380 | C10N100 | Cystic fibrosis related diabetes mellitus |
| 30119 | C1zy100 | Progeria |
| 32464 | C300000 | Cystinosis |

| Medcode | Read Code | Description |
|---------|-----------|---|
| 111077 | C300800 | Juvenile nephropathic cystinosis |
| 109608 | C300A00 | Congenital Fanconi syndrome |
| 99711 | C302511 | Oculocerebrorenal syndrome |
| 59343 | C302512 | Oculocerebrorenal dystrophy |
| 16038 | C303300 | Maple syrup urine disease |
| 102171 | C304400 | Sulphite oxidase deficiency |
| 62395 | C306100 | Citrullinaemia |
| 66155 | C306200 | Argininosuccinic aciduria |
| 42017 | C306400 | Hyperammonaemia |
| 10166 | C307000 | Hyperglycinaemia |
| 42636 | C307y11 | Methylmalonic acidaemia |
| 44871 | C308000 | Medium chain acyl-CoA dehydrogenase deficiency |
| 107840 | C308100 | Multiple acyl-CoA dehydrogenase deficiencies |
| 108041 | C308200 | X-linked adrenoleucodystrophy |
| 57139 | C30y800 | Glutaric aciduria Type 1 |
| 59001 | C310112 | Pompe's disease |
| 63359 | C315000 | Pyruvate dehydrogenase deficiency |
| 105956 | C315200 | Kearns-Sayre syndrome |
| 35649 | C31y200 | Oxalosis |
| 1391 | C327100 | Gaucher's disease |
| 46516 | C327200 | Niemann-Pick disease |
| 109868 | C327200 | Wolman disease |
| 12204 | C354A00 | Metastatic calcification |
| 32874 | C362z11 | Acidaemia NOS |
| 6220 | C370.00 | Cystic fibrosis |
| 65344 | C370000 | Cystic fibrosis with no meconium ileus |
| 69017 | C370100 | Cystic fibrosis with meconium ileus |
| 36622 | C370111 | Meconium ileus in cystic fibrosis |
| 18914 | C370200 | Cystic fibrosis with pulmonary manifestations |
| 18905 | C370300 | Cystic fibrosis with intestinal manifestations |
| 100610 | C370400 | Arthropathy in cystic fibrosis |
| 103224 | C370500 | Cystic fibrosis with distal intestinal obstruction syndrome |
| 110454 | C370700 | Liver disease due to cystic fibrosis |
| 102922 | C370800 | Cystic fibrosis related cirrhosis |
| 106432 | C370900 | Exacerbation of cystic fibrosis |
| 73065 | C370y00 | Cystic fibrosis with other manifestations |
| 49770 | C370z00 | Cystic fibrosis NOS |
| 108623 | C372.11 | Lesch - Nyhan syndrome |
| 62644 | C372011 | Lesch - Nyhan syndrome |
| 67927 | C372300 | Lesch-Nyhan syndrome |
| 22851 | C375.00 | Mucopolysaccharidosis |
| 103891 | C375.13 | Hurler's syndrome |
| 111036 | C375.18 | Sanfilippo's syndrome |
| 69381 | C375100 | Mucopolysaccharidosis, type 1 |
| 33390 | C375112 | Hurler's syndrome |

| Medcode | Read Code | Description |
|---------|-----------|---|
| 61650 | C375200 | Mucopolysaccharidosis, type II |
| 16443 | C375211 | Hunter's syndrome |
| 70439 | C375300 | Mucopolysaccharidosis, type III |
| 43712 | C375311 | Sanfilippo syndrome |
| 103139 | C375400 | Mucopolysaccharidosis, type IV |
| 62762 | C375600 | Mucopolysaccharidosis, type VI |
| 104999 | C375z00 | Mucopolysaccharidosis NOS |
| 69613 | C377100 | Mucolipidosis type III |
| 10955 | C391100 | Di George syndrome |
| 48293 | C392100 | Severe combined immunodeficiency |
| 31541 | C392300 | Severe combined immunodefiency with reticular dysgenesis |
| 66073 | C392400 | Severe combined immunodef with low T- and B-cell numbers |
| 49542 | C392500 | Severe combined immunodef with low or normal B-cell numbers |
| 37539 | D200 | Aplastic and other anaemias |
| 15422 | D2000 | Aplastic anaemia |
| 69027 | D200.00 | Constitutional aplastic anaemia |
| 69061 | D200011 | Constitutional aplastic anaemia without malformation |
| 34754 | D200100 | Fanconi's familial refractory anaemia |
| 64625 | D200111 | Fanconi's hypoplastic anaemia |
| 102848 | D200200 | Constitutional aplastic anaemia with malformation |
| 15658 | D201.00 | Acquired aplastic anaemia |
| 21723 | D201z00 | Acquired aplastic anaemia NOS |
| 41142 | D204.00 | Idiopathic aplastic anaemia |
| 68087 | D20z.00 | Aplastic anaemia NOS |
| 48145 | D212000 | Anaemia in ovarian carcinoma |
| 56540 | D40y400 | Leukaemoid reaction |
| 54106 | Eu02100 | [X]Dementia in Creutzfeldt-Jakob disease |
| 37014 | Eu02200 | [X]Dementia in Huntington's disease |
| 41185 | Eu02400 | [X]Dementia in human immunodef virus [HIV] disease |
| 31042 | Eu84200 | [X]Rett's syndrome |
| 54934 | F030400 | Encephalitis due to herpes simplex virus |
| 41245 | F030411 | Herpes simplex encephalitis |
| 43203 | F100.00 | Leucodystrophy |
| 45903 | F100000 | Krabbe's disease |
| 97092 | F100100 | Schulz's disease |
| 53382 | F100200 | Pelizaeus-Merzbacher disease |
| 59855 | F100300 | Metachromatic leucodystrophy |
| 59035 | F100z00 | Leucodystrophy NOS |
| 56951 | F101200 | Spielmeyer-Vogt (Batten) disease |
| 49181 | F101400 | Gangliosidosis |
| 93963 | F101600 | Sandhoff disease |
| 65343 | F102100 | Cerebral degeneration in Niemann-Pick disease |
| 63652 | F103000 | Cerebral degeneration in Hunter's disease |
| 67762 | F103100 | Cerebral degeneration in mucopolysaccharidoses |
| 48211 | F10y000 | Alper's disease |

| Medcode | Read Code | Description |
|---------|--------------|--|
| 48300 | F10y100 | Leigh's disease |
| 102921 | F10y200 | PEHO syndrome |
| 48531 | F11x700 | Cerebral degeneration due to Jakob - Creutzfeldt disease |
| 33353 | F11y000 | Reye's syndrome |
| 5443 | , F122.00 | Malignant neuroleptic syndrome |
| 55636 | F130100 | Hallervorden-Spatz disease |
| 47974 | F130600 | Aicardi Goutieres syndrome |
| 3591 | F134.00 | Huntington's chorea |
| 4165 | F140.00 | Friedreich's ataxia |
| 108131 | F146.00 | Early onset cerebellar ataxia with hypogonadism |
| 73583 | F14y000 | Ataxia-telangiectasia |
| 33334 | F150.00 | Werdnig - Hoffmann disease |
| 95615 | F150.11 | Infantile spinal muscular atrophy |
| 9179 | F151.00 | Spinal muscular atrophy |
| 70572 | F151000 | Unspecified spinal muscular atrophy |
| 101222 | F151111 | Juvenile spinal muscular atrophy |
| 57632 | F151z00 | Spinal muscular atrophy NOS |
| 27377 | F152200 | Progressive bulbar palsy |
| 684 | F2000 | Multiple sclerosis |
| 40344 | F200.00 | Multiple sclerosis of the brain stem |
| 23730 | F202.00 | Generalised multiple sclerosis |
| 2298 | F203.00 | Exacerbation of multiple sclerosis |
| 96291 | F204.00 | Benign multiple sclerosis |
| 96607 | F206.00 | Primary progressive multiple sclerosis |
| 95972 | F207.00 | Relapsing and remitting multiple sclerosis |
| 96246 | F208.00 | Secondary progressive multiple sclerosis |
| 20493 | F20z.00 | Multiple sclerosis NOS |
| 105035 | F211.00 | Schilder's disease |
| 102338 | F21y600 | Vanishing white matter disease |
| 21249 | F232.00 | Congenital quadriplegia |
| 48126 | F232.00 | Tetraplegia - congenital |
| 9271 | F240.00 | Quadriplegia |
| 16117 | F240.11 | Tetraplegia |
| 35540 | F240100 | Spastic tetraplegia |
| 34792 | F250500 | Lennox-Gastaut syndrome |
| 4478 | F256.00 | Infantile spasms |
| 39023 | F256.12 | West syndrome |
| 7945 | F256000 | Hypsarrhythmia |
| 23415 | F256100 | Salaam attacks |
| 49322 | F256z00 | Infantile spasms NOS |
| 105679 | F250200 | Dravet syndrome |
| 8267 | F363.00 | Refsum's disease |
| | | |
| 30537 | F373.00 | Polyneuropathy in malignant disease |
| 96256 | F37y100 | Axonal sensorimotor neuropathy |
| 57551 | F381100 | Myasthenic syndrome due to other malignancy |

| Medcode | Read Code | Description |
|---------|--------------|--|
| 53317 | F383.00 | Congenital and developmental myasthenia |
| 64690 | F390.00 | Congenital hereditary muscular dystrophy |
| 34704 | F390100 | Central core disease |
| 25429 | F390300 | Myotubular myopathy |
| 36566 | F390400 | Nemaline body disease |
| 103722 | F390500 | Congenital myopathy |
| 22174 | F390z00 | Congenital hereditary muscular dystrophy NOS |
| 5393 | F391000 | Duchenne muscular dystrophy |
| 28210 | F391300 | Other limb-girdle muscular dystrophy |
| 44272 | F391B00 | Cardiomyopathy in Duchenne muscular dystrophy |
| 49482 | F396200 | Myopathy due to malignant disease |
| 5964 | F39B.00 | Muscular dystrophy |
| 63376 | F402100 | Malignant myopia |
| 73742 | F427K00 | Lipofuscinosis NOS |
| 97454 | F427K11 | Lipofuscinosis NEC |
| 67906 | F431400 | Metastatic disseminated retinitis |
| 85190 | F562100 | Malignant positional vertigo |
| 59155 | Fy04.11 | Ondine's curse |
| 50157 | , G210.00 | Malignant hypertensive heart disease |
| 72668 | G210100 | Malignant hypertensive heart disease with CCF |
| 31755 | G240.00 | Secondary malignant hypertension |
| 59383 | G240000 | Secondary malignant renovascular hypertension |
| 73293 | G240z00 | Secondary malignant hypertension NOS |
| 241 | G3000 | Acute myocardial infarction |
| 1204 | G3014 | Heart attack |
| 245 | G410.00 | Primary pulmonary hypertension |
| 3204 | G5500 | Cardiomyopathy |
| 8010 | G551.00 | Hypertrophic obstructive cardiomyopathy |
| 41488 | G554100 | Constrictive cardiomyopathy |
| 21852 | G554200 | Familial cardiomyopathy |
| 7535 | G554400 | Primary dilated cardiomyopathy |
| 70855 | G558000 | Cardiomyopathy in Friedreich's ataxia |
| 27683 | G558100 | Cardiomyopathy in myotonic dystrophy |
| 64837 | G558200 | Dystrophic cardiomyopathy |
| 9402 | G55y.11 | Secondary dilated cardiomyopathy |
| 22993 | G55z.00 | Cardiomyopathy NOS |
| 7593 | H51y700 | Malignant pleural effusion |
| 39945 | J600011 | Acute liver failure |
| 21769 | J625.11 | [X] Liver failure |
| 23775 | J62y.12 | Liver failure NOS |
| 48879 | J637.00 | Hepatic veno-occlusive disease |
| 63786 | K01w.00 | Congenital nephrotic syndrome |
| 72303 | K01w000 | Finnish nephrosis syndrome |
| 108591 | K01w100 | Drash syndrome |
| 108922 | K01w112 | Wilms' tumour + nephrotic syndrome + pseudohermaphroditism |

| Medcode | Read Code | Description |
|---------|--------------|---|
| 110749 | K01w200 | Congenital nephrotic syndrome with focal glomerulosclerosis |
| 111370 | K01wz00 | Congenital nephrotic syndrome NOS |
| 512 | K0500 | Chronic renal failure |
| 53852 | K0512 | End stage renal failure |
| 6712 | K050.00 | End stage renal failure |
| 58671 | K0A5300 | Heredtry nephrpthy NEC difus mesangial prolif glomnephrit |
| 61930 | Kyu2.00 | [X]Renal failure |
| 38608 | L250.11 | Suspect fetal anencephaly |
| 66019 | L254.11 | Suspect fetal damage from maternal alcohol |
| 26111 | M162800 | Lymphomatoid papulosis |
| 31418 | N233000 | Arthrogryposis |
| 23320 | N233011 | Arthrogryposis multiplex congenita. |
| 65405 | N237300 | Pseudosarcomatous fibromatosis |
| 72707 | P000 | Anencephalus and similar anomalies |
| 11531 | P0000 | Anencephalus |
| 68181 | P002.11 | Hemianencephaly |
| 109394 | P00y.00 | Other specified anencephalus |
| 66499 | , P00z.00 | Anencephalus NOS |
| 94467 | P0z00 | Anencephalus and similar anomalies NOS |
| 3947 | P100 | Spina bifida |
| 46790 | P1000 | Spina bifida with hydrocephalus |
| 42497 | P100.00 | Unspecified spina bifida with hydrocephalus |
| 5306 | P100000 | Spina bifida with hydrocephalus, unspecified |
| 109243 | P100100 | Cervical spina bifida with hydrocephalus |
| 50565 | P100200 | Thoracic spina bifida with hydrocephalus |
| 57113 | P100300 | Lumbar spina bifida with hydrocephalus |
| 98298 | P100z00 | Spina bifida with hydrocephalus NOS |
| 98811 | P102.00 | Spina bifida with hydrocephalus - open |
| 57243 | P102200 | Thoracic spina bifida with hydrocephalus - open |
| 103284 | P102300 | Lumbar spina bifida with hydrocephalus - open |
| 60623 | P102400 | Sacral spina bifida with hydrocephalus - open |
| 47288 | P102z00 | Spina bifida with hydrocephalus - open NOS |
| 93902 | P103.00 | Spina bifida with hydrocephalus - closed |
| 90482 | P103z11 | Thoracolumbar spina bifida with hydrocephalus - closed |
| 73085 | P10y.00 | Other specified spina bifida with hydrocephalus |
| 59218 | P10y000 | Dandy - Walker syndrome with spina bifida |
| 64717 | P10z.00 | Spina bifida with hydrocephalus NOS |
| 21802 | P1z00 | Spina bifida NOS |
| 5712 | P2100 | Microcephalus |
| 85988 | P210.00 | Hydromicrocephaly |
| 33939 | P21z.00 | Microcephalus NOS |
| 34950 | P223.11 | Lissencephaly |
| 34161 | P225.00 | Holoprosencephaly |
| 42784 | P226.00 | Microgyria |
| 98753 | P228300 | Aicardi syndrome |

| Medcode | Read Code | Description |
|---------|-----------|--|
| 34921 | P22y111 | Joubert syndrome |
| 18537 | P233.11 | Dandy - Walker syndrome |
| 46583 | P234.00 | Hydranencephaly |
| 28824 | P240200 | Schizencephaly |
| 105186 | P2600 | Disorder of neuronal migration and differentiation |
| 2816 | P5100 | Transposition of great vessels |
| 69858 | P510.00 | Total great vessel transposition |
| 102980 | P511200 | Incomplete great vessel transposition |
| 63390 | P512.00 | Corrected great vessel transposition |
| 62169 | P51y.00 | Other specified transposition of great vessels |
| 61100 | P51y.11 | Transposition of aorta |
| 73539 | P51z.00 | Great vessel transposition NOS |
| 100622 | P51z.11 | Transposition of arterial trunk NEC |
| 9011 | P543.00 | Eisenmenger's complex |
| 3862 | P601.00 | Congenital atresia of the pulmonary valve |
| 93561 | P601z00 | Congenital atresia of pulmonary valve NOS |
| 20772 | P6700 | Hypoplastic left heart syndrome |
| 31112 | P732.00 | Pulmonary artery atresia |
| 32508 | P738.00 | Atresia of pulmonary artery with septal defect |
| 51911 | P74z800 | Atresia of pulmonary vein |
| 52258 | PB33.00 | Total intestinal aganglionosis |
| 53517 | PB33.12 | Congenital aganglionic megacolon |
| 44201 | PB57.00 | Microcolon |
| 24437 | PB5z.12 | Short bowel syndrome |
| 25597 | PB61.00 | Biliary atresia |
| 50444 | PB61z00 | Biliary atresia NOS |
| 63634 | PD00000 | Bilateral renal agenesis |
| 23960 | PD03011 | Potter's syndrome |
| 73612 | PE02.00 | Potter's facies |
| 50251 | PF55100 | Acrocephalosyndactyly (Pfeiffer) |
| 38479 | PFy0.00 | Arthrogryposis multiplex congenita |
| 36839 | PFy1.00 | Larsen's syndrome |
| 60165 | PFy4.00 | Other arthrogryposis syndromes |
| 33811 | PG4D.00 | Metaphyseal chondrodysplasia |
| 48184 | PG4E.00 | Spondylometaphyseal dysplasia |
| 4158 | PG51.00 | Osteogenesis imperfecta |
| 103017 | PG51200 | Osteogenesis imperfecta - unclassifiable |
| 58635 | PG51300 | Osteogenesis imperfecta type I |
| 98662 | PG51400 | Osteogenesis imperfecta type II |
| 69436 | PG51500 | Osteogenesis imperfecta type III |
| 97751 | PG51600 | Osteogenesis imperfecta type IV |
| 53933 | PG51z00 | Osteogenesis imperfecta NOS |
| 15343 | PG52.00 | Osteopetrosis |
| 44759 | PG52000 | Osteopetrosis - unclassified |
| 93177 | PG52100 | Osteopetrosis - congenita type |

| Medcode | Read Code | Description |
|---------|-----------|---|
| 103646 | PG52200 | Osteopetrosis - tarda type |
| 18321 | PG56012 | Conradi - Hunermann syndrome |
| 11513 | PH30.00 | Congenital ectodermal dysplasia |
| 4272 | PH3y200 | Epidermolysis bullosa |
| 46794 | PH3y800 | Epidermolysis bullosa letalis |
| 35420 | PH3y900 | Epidermolysis bullosa dystrophica |
| 65121 | PHz11 | Congenital ectodermal defect |
| 35665 | PJ100 | Patau's syndrome - trisomy 13 |
| 72139 | PJ10.00 | Trisomy 13, meiotic nondisjunction |
| 43565 | PJ11.00 | Trisomy 13, mosaicism |
| 46133 | PJ12.00 | Trisomy 13, translocation |
| 102102 | PJ12.11 | Partial trisomy 13 in Patau's syndrome |
| 72265 | PJ1z.00 | Patau's syndrome NOS |
| 19038 | PJ1z.11 | Trisomy 13 NOS |
| 33642 | PJ200 | Edward's syndrome - trisomy 18 |
| 103873 | PJ20.00 | Trisomy 18, meiotic nondisjunction |
| 67234 | PJ21.00 | Trisomy 18, mosaicism |
| 93133 | PJ22.00 | Trisomy 18, translocation |
| 107162 | PJ22.11 | Partial trisomy 18 in Edward's syndrome |
| 39017 | PJ2z.00 | Edward's syndrome NOS |
| 46787 | PJ2z.11 | TRISOMY 18 NOS |
| 33948 | PJ32.11 | Wolff - Hirschorn syndrome |
| 111120 | PJ33113 | 18q deletion syndrome |
| 65091 | PJ33211 | 18q- syndrome |
| 103582 | PJ33600 | Chromosome 22q11 deletion syndrome |
| 69476 | PJ50200 | Trisomy 8 |
| 65509 | PJ50300 | Trisomy 9 |
| 109223 | PJ50311 | Trisomy 9 Mosaic Syndrome |
| 110833 | PJ50400 | Trisomy 10 |
| 106114 | PJ51400 | Trisomy 9p syndrome |
| 60079 | PJ63z11 | Bonnevie-Ullrich syndrome NOS |
| 10628 | PJyy200 | Fragile X chromosome |
| 32603 | PJyy400 | Fragile X syndrome |
| 4479 | PK500 | Tuberous sclerosis |
| 42643 | PK64.00 | Proteus syndrome |
| 23945 | PK80.00 | Fetal alcohol syndrome |
| 66699 | PK83.00 | Fetus and newborn affected by maternal use of alcohol |
| 41461 | РКу0.11 | Prader-Willi Syndrome |
| 27280 | РКу0.12 | Prader-Willi syndrome |
| 16087 | РКу4.00 | William syndrome |
| 21418 | РКу6011 | Cornelia de Lange syndrome |
| 36567 | РКу6100 | Cockayne syndrome |
| 33522 | РКу6300 | Smith - Lemli - Opitz syndrome |
| 43325 | РКу7300 | Rubenstein - Tayi syndrome |
| 16711 | РКу7ВОО | Stickler syndrome |

| Medcode | Read Code | Description |
|---------|-----------|--|
| 28663 | РКу9200 | Menke's syndrome |
| 10956 | РКу9300 | Prader - Willi syndrome |
| 48084 | РКу9400 | Zellweger's syndrome |
| 61769 | PKyC.00 | Pena-Shokeir syndrome type I |
| 110169 | PKyD.00 | Nicolaides-Baraitser syndrome |
| 100175 | PKyE.00 | Barber-Say syndrome |
| 71526 | PKyF.00 | Alstrom syndrome |
| 104054 | PKyL.00 | FG syndrome |
| 106926 | PKyP.11 | Wolfram syndrome |
| 108947 | PKyz.11 | Cockayne's syndrome |
| 60673 | PKyz000 | Ullrich - Feichtiger syndrome, chimaera |
| 25306 | PKyz511 | Angelman syndrome |
| 97059 | PKyz700 | Angelman's syndrome |
| 98617 | PKyz711 | Angelman syndrome |
| 106579 | Pyu0400 | [X]Unspecified spina bifida with hydrocephalus |
| 94925 | Pyu9D00 | [X]Primary ciliary dyskinesia |
| 108652 | PyuAD00 | [X]Li-Fraumeni syndrome |
| 97916 | Q007111 | Fetal alcohol syndrome |
| 43005 | Q200012 | Intracranial haemorrhage in fetus or newborn |
| 6883 | Q317000 | Perinatal bronchopulmonary dysplasia |
| 20151 | Q400.00 | Congenital rubella |
| 19584 | Q401.00 | Congenital cytomegalovirus infection |
| 25304 | Q402300 | Congenital toxoplasmosis |
| 55634 | Q442.00 | Neonatal myasthenia gravis |
| 19007 | Q48E.00 | Periventricular leucomalacia |
| 50554 | Q48E.11 | Periventricular leukomalacia |
| 104239 | Q48F.00 | Hypoxic ischaemic encephalopathy of newborn |
| 106012 | Q48F.11 | Perinatal hypoxic - ischaemic encephalopathy |
| 47342 | Q48y000 | Congenital renal failure |
| 20822 | Q48y100 | Congenital cardiac failure |
| 23566 | Q490.00 | Neonatal cardiac failure |
| 44288 | R109.00 | [D]Laboratory evidence of human immunodeficiency virus [HIV] |
| 13581 | R210.00 | [D]Sudden infant death syndrome |
| 48288 | R210200 | [D]Nonspecific sudden infant death |
| 51323 | R210z00 | [D]Sudden infant death syndrome NOS |
| 94533 | RyuC000 | [X]Sudden infant death syndrome |
| 22728 | SP08700 | Acute graft-versus-host disease |
| 25695 | SP08800 | Chronic graft-versus-host disease |
| 12106 | ZV10.00 | [V]Personal history of malignant neoplasm |
| 32246 | ZV10111 | [V]Personal history of malignant neoplasm of bronchus |
| 29284 | ZV10112 | [V]Personal history of malignant neoplasm of lung |
| 61655 | ZV10211 | [V]Personal history of malignant neoplasm - accessory sinus |
| 43311 | ZV10212 | [V]Personal history of malignant neoplasm of larynx |
| 9444 | ZV10400 | [V]Personal history of malignant neoplasm of genital organ |
| 23936 | ZV10411 | [V]Personal history of malignant neoplasm of cervix uteri |

| Medcode | Read Code | Description |
|---------|-----------|---|
| 37306 | ZV10415 | [V]Personal history of malignant neoplasm of prostate |
| 46779 | ZV10417 | [V]Personal history of malignant neoplasm of uterine body |
| 30322 | ZV10500 | [V]Personal history of malignant neoplasm of urinary organ |
| 47683 | ZV10512 | [V]Personal history of malignant neoplasm of kidney |
| 28881 | ZV10513 | [V]Personal history of malignant neoplasm of kidney |
| 36693 | ZV10600 | [V]Personal history of leukaemia |
| 94597 | ZV10611 | [V]Personal history of lymphoid leukaemia |
| 110058 | ZV10613 | [V]Personal history of myeloid leukaemia |
| 40561 | ZV10711 | [V]Personal history of Hodgkin's disease |
| 68612 | ZV10z00 | [V]Personal history of unspecified malignant neoplasm |
| 44421 | ZV67A00 | [V]Folow-up exam aft other treatment for malignant neoplasm |
| 10439 | ZV76.00 | [V]Screening for malignant neoplasm |
| 25835 | ZV76200 | [V]Screening for malignant neoplasm of cervix |
| 61663 | ZV76500 | [V]Screening for malignant neoplasm of oral cavity |

ICD-10 Codes

| ICD-10 Code | Description | | |
|-------------|---|--|--|
| A17 | Tuberculosis of nervous system | | |
| A81.0 | Creutzfeldt-Jakob disease | | |
| A81.1 | Subacute sclerosing panencephalitis | | |
| B20 | Human immunodeficiency virus [HIV] disease resulting in infectious and parasitic diseases | | |
| B21 | Human immunodeficiency virus [HIV] disease resulting in malignant neoplasms | | |
| B22 | Human immunodeficiency virus [HIV] disease resulting in other specified diseases | | |
| B23 | Human immunodeficiency virus [HIV] disease resulting in other conditions | | |
| B24 | Unspecified human immunodeficiency virus [HIV] disease | | |
| C00 | Malignant neoplasm of lip | | |
| C01 | Malignant neoplasm of base of tongue | | |
| C02 | Malignant neoplasm of other and unspecified parts of tongue | | |
| C03 | Malignant neoplasm of gum | | |
| C04 | Malignant neoplasm of floor of mouth | | |
| C05 | Malignant neoplasm of palate | | |
| C06 | Malignant neoplasm of other and unspecified parts of mouth | | |
| C07 | Malignant neoplasm of parotid gland | | |
| C08 | Malignant neoplasm of other and unspecified major salivary glands | | |
| C09 | Malignant neoplasm of tonsil | | |
| C10 | Malignant neoplasm of oropharynx | | |
| C11 | Malignant neoplasm of nasopharynx | | |
| C12 | Malignant neoplasm of piriform sinus | | |
| C13 | Malignant neoplasm of hypopharynx | | |
| C14 | Malignant neoplasm of other and ill-defined sites in the lip, oral cavity and pharynx | | |
| C15 | Malignant neoplasm of oesophagus | | |
| C16 | Malignant neoplasm of stomach | | |
| C17 | Malignant neoplasm of small intestine | | |
| C18 | Malignant neoplasm of colon | | |
| C19 | Malignant neoplasm of rectosigmoid junction | | |
| C20 | Malignant neoplasm of rectum | | |
| C21 | Malignant neoplasm of anus and anal canal | | |
| C22 | Malignant neoplasm of liver and intrahepatic bile ducts | | |
| C23 | Malignant neoplasm of gallbladder | | |
| C24 | Malignant neoplasm of other and unspecified parts of biliary tract | | |
| C25 | Malignant neoplasm of pancreas | | |
| C26 | Malignant neoplasm of other and ill-defined digestive organs | | |
| C30 | Malignant neoplasm of nasal cavity and middle ear | | |
| C31 | Malignant neoplasm of accessory sinuses | | |
| C32 | Malignant neoplasm of laccessory sindses | | |
| C33 | Malignant neoplasm of trachea | | |
| C34 | Malignant neoplasm of bronchus and lung | | |
| C37 | Malignant neoplasm of thymus | | |
| C38 | Malignant neoplasm of heart, mediastinum and pleura | | |
| | Malignant neoplasm of other and ill-defined sites in the respiratory system and | | |
| C39 | intrathoracic organs | | |

| ICD-10 Code | Description |
|-------------|---|
| C40 | Malignant neoplasm of bone and articular cartilage of limbs |
| C41 | Malignant neoplasm of bone and articular cartilage of other and unspecified sites |
| C43 | Malignant melanoma of skin |
| C44 | Other malignant neoplasms of skin |
| C45 | Mesothelioma |
| C46 | Kaposi sarcoma |
| C47 | Malignant neoplasm of peripheral nerves and autonomic nervous system |
| C48 | Malignant neoplasm of retroperitoneum and peritoneum |
| C49 | Malignant neoplasm of other connective and soft tissue |
| C50 | Malignant neoplasm of breast |
| C51 | Malignant neoplasm of vulva |
| C52 | Malignant neoplasm of vagina |
| C53 | Malignant neoplasm of cervix uteri |
| C54 | Malignant neoplasm of corpus uteri |
| C55 | Malignant neoplasm of uterus, part unspecified |
| C56 | Malignant neoplasm of ovary |
| C57 | Malignant neoplasm of other and unspecified female genital organs |
| C58 | Malignant neoplasm of placenta |
| C60 | Malignant neoplasm of penis |
| C61 | Malignant neoplasm of prostate |
| C62 | Malignant neoplasm of testis |
| C63 | Malignant neoplasm of other and unspecified male genital organs |
| C64 | Malignant neoplasm of kidney, except renal pelvis |
| C65 | Malignant neoplasm of renal pelvis |
| C66 | Malignant neoplasm of ureter |
| C67 | Malignant neoplasm of bladder |
| C68 | Malignant neoplasm of other and unspecified urinary organs |
| C69 | Malignant neoplasm of eye and adnexa |
| C70 | Malignant neoplasm of meninges |
| C71 | Malignant neoplasm of brain |
| C72 | Malignant neoplasm of spinal cord, cranial nerves and other parts of central nervous system |
| C73 | Malignant neoplasm of thyroid gland |
| C74 | Malignant neoplasm of adrenal gland |
| C75 | Malignant neoplasm of other endocrine glands and related structures |
| C76 | Malignant neoplasm of other and ill-defined sites |
| C77 | Secondary and unspecified malignant neoplasm of lymph nodes |
| C78 | Secondary malignant neoplasm of respiratory and digestive organs |
| C79 | Secondary malignant neoplasm of other and unspecified sites |
| C80 | Malignant neoplasm, without specification of site |
| C81 | Hodgkin lymphoma |
| C82 | Follicular lymphoma |
| C83 | Non-follicular lymphoma |
| C84 | Mature T/NK-cell lymphomas |
| C85 | Other and unspecified types of non-Hodgkin lymphoma |
| C86 | Other specified types of T/NK-cell lymphoma |
| C88 | Malignant immunoproliferative diseases |

| ICD-10 Code | Description | | |
|--------------|--|--|--|
| C90 | Multiple myeloma and malignant plasma cell neoplasms | | |
| C91 | Lymphoid leukaemia | | |
| C92 | Myeloid leukaemia | | |
| C93 | Monocytic leukaemia | | |
| C94 | Other leukaemias of specified cell type | | |
| C95 | Leukaemia of unspecified cell type | | |
| C96 | Other and unspecified malignant neoplasms of lymphoid, haematopoietic and related tissue | | |
| C97 | Malignant neoplasms of independent (primary) multiple sites | | |
| D61.9 | Aplastic anaemia, unspecified | | |
| D70 | Agranulocytosis | | |
| D76.1 | Haemophagocytic lymphohistiocytosis | | |
| D81 | Combined immunodeficiencies | | |
| D82.1 | Di George syndrome | | |
| D83 | Common variable immunodeficiency | | |
| D89.1 | Cryoglobulinaemia | | |
| E31.0 | Autoimmune polyglandular failure | | |
| E34.8 | Other specified endocrine disorders | | |
| E70.2 | Disorders of tyrosine metabolism | | |
| E71 | Disorders of branched-chain amino-acid metabolism and fatty-acid metabolism | | |
| E72 | Other disorders of amino-acid metabolism | | |
| E74 | Other disorders of carbohydrate metabolism | | |
| E75 | Disorders of sphingolipid metabolism and other lipid storage disorders | | |
| E76 | Disorders of glycosaminoglycan metabolism | | |
| E77 | Disorders of glycoprotein metabolism | | |
| E79.1 | Lesch-Nyhan syndrome | | |
| E83.0 | Disorders of copper metabolism | | |
| E84 | Cystic fibrosis | | |
| E88.0 | Disorders of plasma-protein metabolism, not elsewhere classified | | |
| E88.1 | Lipodystrophy, not elsewhere classified | | |
| F80.3 | Acquired aphasia with epilepsy [Landau-Kleffner] | | |
| F84.2 | Rett syndrome | | |
| G10 | Huntington disease | | |
| G11.1 | Early-onset cerebellar ataxia | | |
| G11.3 | Cerebellar ataxia with defective DNA repair | | |
| G11.5 G12 | Spinal muscular atrophy and related syndromes | | |
| G12 G20 | Parkinson disease | | |
| G23.0 | Hallervorden-Spatz disease | | |
| G23.8 | Other specified degenerative diseases of basal ganglia | | |
| G31.8 | Other specified degenerative diseases of pasal ganglia | | |
| G31.9 | Degenerative disease of nervous system, unspecified | | |
| G35 | Multiple sclerosis | | |
| G40.4 | Other generalized epilepsy and epileptic syndromes | | |
| G40.5 | Special epileptic syndromes | | |
| G60.0 | Hereditary motor and sensory neuropathy | | |
| G60.1 | Refsum disease | | |
| G70.2 | Congenital and developmental myasthenia | | |
| 570.2 | כיחצבווומו מות עביבוסטוובווגמו ווועמגנובווומ | | |

| ICD-10 Code | Description |
|-------------|--|
| G70.9 | Myoneural disorder, unspecified |
| G71.0 | Muscular dystrophy |
| G71.1 | Myotonic disorders |
| G71.2 | Congenital myopathies |
| G71.3 | Mitochondrial myopathy, not elsewhere classified |
| G80.0 | Spastic quadriplegic cerebral palsy |
| G80.8 | Other cerebral palsy |
| G82.3 | Flaccid tetraplegia |
| G82.4 | Spastic tetraplegia |
| G82.5 | Tetraplegia, unspecified |
| G93.4 | Encephalopathy, unspecified |
| G93.6 | Cerebral oedema |
| G93.7 | Reye syndrome |
| H11.1 | Conjunctival degenerations and deposits |
| H35.5 | Hereditary retinal dystrophy |
| H49.8 | Other paralytic strabismus |
| 121 | Acute myocardial infarction |
| 127.0 | Primary pulmonary hypertension |
| 142 | Cardiomyopathy |
| 161.3 | Intracerebral haemorrhage in brain stem |
| 181 | Portal vein thrombosis |
| J84.1 | Other interstitial pulmonary diseases with fibrosis |
| J96 | Respiratory failure, not elsewhere classified |
| J98.4 | Other disorders of lung |
| К55.0 | Acute vascular disorders of intestine |
| К55.9 | Vascular disorder of intestine, unspecified |
| K72 | Hepatic failure, not elsewhere classified |
| К74 | Fibrosis and cirrhosis of liver |
| K76.5 | Hepatic veno-occlusive disease |
| K86.8 | Other specified diseases of pancreas |
| M31.3 | Wegener granulomatosis |
| M32.1 | Systemic lupus erythematosus with organ or system involvement |
| M89.5 | Osteolysis |
| N17 | Acute renal failure |
| N18 | Chronic kidney disease |
| N19 | Unspecified kidney failure |
| N25.8 | Other disorders resulting from impaired renal tubular function |
| P10.1 | Cerebral haemorrhage due to birth injury |
| P11.2 | Unspecified brain damage due to birth injury |
| P21.0 | Severe birth asphyxia |
| P28.5 | Respiratory failure of newborn |
| P29.0 | Neonatal cardiac failure |
| P29.3 | Persistent fetal circulation |
| P35.0 | Congenital rubella syndrome |
| P35.1 | Congenital cytomegalovirus infection |
| P35.8 | Other congenital viral diseases |

| ICD-10 Code | Description |
|-------------|---|
| P37.1 | Congenital toxoplasmosis |
| Q00.0 | Anencephaly |
| Q01 | Encephalocele |
| Q03.1 | Atresia of foramina of Magendie and Luschka |
| Q03.9 | Congenital hydrocephalus, unspecified |
| Q04.0 | Congenital malformations of corpus callosum |
| Q04.2 | Holoprosencephaly |
| Q04.3 | Other reduction deformities of brain |
| Q04.4 | Septo-optic dysplasia |
| Q04.6 | Congenital cerebral cysts |
| Q04.9 | Congenital malformation of brain, unspecified |
| Q21.8 | Other congenital malformations of cardiac septa |
| Q22.0 | Pulmonary valve atresia |
| Q22.1 | Congenital pulmonary valve stenosis |
| Q22.4 | Congenital tricuspid stenosis |
| Q22.5 | Ebstein anomaly |
| Q22.6 | Hypoplastic right heart syndrome |
| Q23.0 | Congenital stenosis of aortic valve |
| Q23.4 | Hypoplastic left heart syndrome |
| Q23.9 | Congenital malformation of aortic and mitral valves, unspecified |
| Q25.4 | Other congenital malformations of aorta |
| Q39.6 | Diverticulum of oesophagus |
| Q41.0 | Congenital absence, atresia and stenosis of duodenum |
| Q41.9 | Congenital absence, atresia and stenosis of small intestine, part unspecified |
| Q43.7 | Persistent cloaca |
| Q44.2 | Atresia of bile ducts |
| Q44.5 | Other congenital malformations of bile ducts |
| Q44.7 | Other congenital malformations of liver |
| Q60.1 | Renal agenesis, bilateral |
| Q60.6 | Potter syndrome |
| Q74.8 | Other specified congenital malformations of limb(s) |
| Q78.0 | Osteogenesis imperfecta |
| Q78.5 | Metaphyseal dysplasia |
| Q79.2 | Exomphalos |
| Q79.3 | Gastroschisis |
| Q80.4 | Harlequin fetus |
| Q81 | Epidermolysis bullosa |
| Q82.1 | Xeroderma pigmentosum |
| Q82.4 | Ectodermal dysplasia (anhidrotic) |
| Q85.8 | Other phakomatoses, not elsewhere classified |
| Q86.0 | Fetal alcohol syndrome (dysmorphic) |
| Q93.2 | Chromosome replaced with ring or dicentric |
| Q93.3 | Deletion of short arm of chromosome 4 |
| Q93.4 | Deletion of short arm of chromosome 5 |
| Q93.5 | Other deletions of part of a chromosome |
| Q93.8 | Other deletions from the autosomes |

| ICD-10 Code | Description | |
|-------------|---|--|
| Q95.2 | Balanced autosomal rearrangement in abnormal individual | |
| Т86.0 | Bone-marrow transplant rejection | |
| T86.2 | Heart transplant failure and rejection | |

Appendix 6: Read Code and ICD-10 Code Lists – Chronic Conditions

Read Codes

| Medcode | Read Code | Description |
|---------|-----------|--|
| 8097 | 2828 | Absence seizure |
| 64145 | 5761.11 | Hypothalamus hormone radioass. |
| 4246 | 6664 | Mental handicap problem |
| 3970 | 6665 | Physical handicap problem |
| 50012 | 6674 | Epilepsy associated problems |
| 68132 | 6894 | Mental retardation screen |
| 101249 | 2126600 | Osteopenia resolved |
| 104307 | 2126800 | Ostium secundum atrial septal defect resolved |
| 35762 | 7010000 | Ventriculocisternostomy |
| 68651 | 7114200 | Partial parathyroidectomy + parathyroid tissue transposition |
| 43202 | 7114300 | Partial parathyroidectomy NEC |
| 98383 | 7904200 | Left ventricle aorta tunnel right ventricle pul art val con |
| 48206 | 7927300 | Transposition of coronary artery NEC |
| 50604 | 13L2.12 | Mongol child in family |
| 31950 | 13L3.12 | Schizophrenic child |
| 103821 | 13s7.00 | Croatian as a second language |
| 298 | 13VC.00 | Disability |
| 3058 | 13VC.11 | Disabled |
| 27462 | 13VC000 | Disability - slight |
| 23369 | 13VC100 | Disability - moderate |
| 3972 | 13VC200 | Disability - severe |
| 41742 | 13VCZ00 | Disability NOS |
| 38071 | 13VM.00 | Physical disability |
| 67943 | 13Y2.00 | Schizophrenia association member |
| 2052 | 13Z4E00 | Learning difficulties |
| 110439 | 1B96.00 | Speech impairment |
| 33403 | 1B9Z.00 | Speech problem NOS |
| 4035 | 1C13300 | Bilateral deafness |
| 104570 | 1112.00 | Atrial fibrillation excluded |
| 11370 | 10200 | Asthma confirmed |
| 22341 | 1030.00 | Epilepsy confirmed |
| 37948 | 1P01.00 | Psychomotor retardation |
| 22713 | 1\$42.00 | Manic mood |
| 104288 | 1X000 | Sick Cell Thalas Scr Prog fam orig African or African-Carib |
| 103055 | 1X100 | Sick Cell Thalas Scr Prog fam orig South Asia (Asian) |
| 29013 | 1Z10.00 | Chronic kidney disease stage 1 |
| 94789 | 1Z17.00 | Chronic kidney disease stage 1 with proteinuria |
| 97980 | 1Z17.11 | CKD stage 1 with proteinuria |
| 95572 | 1Z18.00 | Chronic kidney disease stage 1 without proteinuria |
| 111022 | 1Z18.11 | CKD stage 1 without proteinuria |
| 95146 | 1Z19.00 | Chronic kidney disease stage 2 with proteinuria |
| 97979 | 1Z19.11 | CKD stage 2 with proteinuria |
| 95121 | 1Z1A.00 | Chronic kidney disease stage 2 without proteinuria |
| 286 | | |

| Medcode | Read Code | Description |
|---------|-----------|---|
| 97978 | 1Z1A.11 | CKD stage 2 without proteinuria |
| 110033 | 1Z1M.00 | CKD with GFR category G1 & albuminuria category A1 |
| 110003 | 1Z1N.00 | CKD with GFR category G1 & albuminuria category A2 |
| 110484 | 1Z1P.00 | CKD with GFR category G1 & albuminuria category A3 |
| 110269 | 1Z1Q.00 | CKD with GFR category G2 & albuminuria category A1 |
| 110108 | 1Z1R.00 | CKD with GFR category G2 & albuminuria category A2 |
| 110251 | 1Z1S.00 | CKD with GFR category G2 & albuminuria category A3 |
| 26362 | 212P.00 | Hyperthyroidism resolved |
| 28994 | 212R.00 | Atrial fibrillation resolved |
| 107402 | 28E2.00 | Severe cognitive impairment |
| 101873 | 337C.00 | Obstructive ventilatory defect |
| 110345 | 38B8.00 | Severe asthma exacerbation risk assessment |
| 103690 | 38G3.00 | Hyperten, abnorm renal/liver funct, stroke, BLED score |
| 94706 | 42d6.00 | Vitamin B profile |
| 49820 | 42e0.00 | Homozygous SS genotype |
| 109412 | 42hB.00 | von Willebrand Normandy screening test |
| 34555 | 42jf.00 | von Willebrand factor antigen level |
| 34554 | 42jg.00 | von Willebrand factor collagen binding assay |
| 16420 | 42P2.11 | Auto-immune thrombocytopenia |
| 23137 | 42Qx.00 | von Willebrand factor activity |
| 110474 | 44lz.00 | Additional biochemical ratios |
| 55159 | 46F7.11 | Tyrosine cryst urine |
| 32466 | 46T6.11 | Aminoaciduria |
| 96587 | 4L4C.00 | Charcot-Marie-Tooth disease type 1A gene detection test |
| 104331 | 4Q21000 | Metadrenaline level |
| 94908 | 4Q73.00 | Copper level |
| 102672 | 5A14.00 | Polycythaemia irradiation |
| 10487 | 663j.00 | Asthma - currently active |
| 3018 | 663V100 | Mild asthma |
| 13065 | 663V200 | Moderate asthma |
| 3366 | 663V300 | Severe asthma |
| 1684 | 66A4.00 | Diabetic on oral treatment |
| 8842 | 66A5.00 | Diabetic on insulin |
| 13071 | 66AI.00 | Diabetic - good control |
| 2378 | 66AJ.00 | Diabetic - poor control |
| 22023 | 66AJz00 | Diabetic - poor control NOS |
| 96010 | 66Ap.00 | Insulin treatment initiated |
| 100791 | 66Ar.00 | Insulin treatment stopped |
| 101728 | 66As.00 | Diabetic on subcutaneous treatment |
| 102704 | 66At000 | Type I diabetic dietary review |
| 104453 | 66At011 | Type 1 diabetic dietary review |
| 101801 | 66At100 | Type II diabetic dietary review |
| 102611 | 66At111 | Type 2 diabetic dietary review |
| 28769 | 66AV.00 | Diabetic on insulin and oral treatment |
| 28530 | 66B4.00 | Thyroid eye disease |
| 24681 | 66B8.00 | Thyroid dis.treatment changed |
| 38292 | 66B9.00 | Thyroid dis.treatment started |

| 7257666g00Congenital heart condition monitoring10550766H8000Rheumatic disorder annual review invitation10030066H8000Diabetic on non-insulin injectable medication1013416660.00Diabetic on noral treatment and glucagon-like peptide 11013436660.00Diabetic on roal treatment and glucagon-like peptide 11013436660.00Diabetic on insulin and glucagon-like peptide 11013756A61.00Attention deficit hyperactivity disorder annual review457736A900Attention deficit hyperactivity disorder annual review39541710.11Pineal gland operations95452790M000Total cavopulmonary context in f cav vein pulmon art con91455790M000Total cavopulmonary connection with lateral atrial tunnel91694791C000Aortic root replacement using momgraft91045791C000Aortic root replacement using momgraft91046791C000Aortic root replacement using mechanical prosthesis91057791C000Aortic root replacement91177702000Hemicraniotomy929887029100Hypoplastic haemolytic and renal anaemia drugs Band 291179702000Isine andrug Band 191179702000Artial fibrilation care pathway91074089A.00Diab mellit insulin-glucose infus acute myocardial infarct91171910200Artial fibrilation care pathway9107219mM.00Rheumatoid arthritis monitoring invitation917329mM.00Rheumatoid arthritis | Medcode | Read Code | Description |
|---|---------|-----------|--|
| 10082066HC.00Rheumatic disorder annual review invitation11034466o2.00Diabetic on non-insulin injectable medication11037966o5.00Diabetic on non-insulin injectable medication11143866o6.00Diabetic on non-insulin and glucagon-like petide 16576168A4.00Congenital eye disorder screen1010676A61.00Attention deficit hyperactivity disorder annual review35713710.11Pineal gland operations95444790M000Total cavopulmonary con extrac inf cav vein pulmon art con91455790M100Total cavopulmonary connection with lateral atrial tunnel93699791C000Aortic root replacement using homograft91044791C300Aortic root replacement using mechanical prosthesis91058791C400Aortic root replacement using mechanical prosthesis918577140600Transposition of litopsoas muscle911777102C00Hemicranicotmy929687Q09100Hyperuricaemia drugs Band 1916170889.00Dia mellit insulin-glucose infus acute myocardial infarct911118B73.00Vitamin D supplements910549mML00Rheumatoid arthritis monitoring invitation917559mML00Rheumatoid arthritis monitoring invitation917659mML00Rheumatoid arthritis monitoring invitation917318B73.00Vitamin D supplements917559mML00Rheumatoid arthritis monitoring invitation9176569mM2.00Rheumatoid arthritis monitoring invitation <tr<< td=""><td>72576</td><td>66g00</td><td>Congenital heart condition monitoring</td></tr<<> | 72576 | 66g00 | Congenital heart condition monitoring |
| 1103446602.00Diabetic on non-insulin injectable medication1103796605.00Diabetic on irsulin and glucagon-like peptide 11114836606.00Diabetic on insulin and glucagon-like peptide 1657616541.00Attention deficit hyperactivity disorder annual review35541710.11Pineal gland operations95444790M000Total cavopulmonary con extrac inf cav vein pulmon art con91455790M100Total cavopulmonary con extrac inf cav vein pulmon art cond93533791C000Aortic root replacement using homograft91004791C300Aortic root replacement using mechanical prosthesis71668791C400Aortic root replacement81387A04.00Other connection from aorta to pulmonary artery939577140600Transposition of illopsoas muscle910717102000Hypoplastic haemolytic and renal anaemia drugs Band 2910917Q08100Hypoplastic haemolytic and renal anaemia drugs Band 2910917Q08100Hypoplastic haemolytic and renal anaemia drugs Band 2910919mM.00Rheumatoid arthritis monitoring invitation first letter1075409mM.00Rheumatoid arthritis monitoring invitation first letter1075759mM1.00Rheumatoid arthritis monitoring invitation first letter1075759mM2.00Rheumatoid arthritis monitoring invitation first letter1075759mM2.00Rheumatoid arthritis monitoring invitation first letter107669mM3.00Rheumatoid arthritis monitoring invitation first letter1076 | 105507 | 66HB000 | Rheumatoid arthritis annual review |
| 1103796605.00Diabetic on oral treatment and glucagon-like peptide 11114836506.00Diabetic on insulin and glucagon-like peptide 16576168A4.00Congenital eye disorder screen0100576.66.100Attrait fibrillation annual review3954171011Pineal gland operations95444790M000Total cavopulmonary con extrac inf cav vein pulmon art cond91455790M100Total cavopulmonary connection with lateral atrial tunnel93699791C000Aortic root replacement using homograft91004791C300Aortic root replacement using mechanical prosthesis71668791C400Aortic root replacement81387A04.00Other connection from aorta to pulmonary artery398577140600Transposition of iliopsoas muscle910177102C00Hyperuricaemia drugs Band 161670889A.00Diab mellit insulin-glucose infus acute myocardial infarct531188873.00Vitamin D supplements1073409mM.00Rheumatoid arthritis monitoring invitation1074359mM.00Rheumatoid arthritis monitoring invitation1075769mM2.00Rheumatoid arthritis monitoring invitation1075759mM2.00Rheumatoid arthritis monitoring invitation1075759mM2.00Rheumatoid arthritis monitoring invitation1075759mM2.00Rheumatoid arthritis monitoring invitation1075759mM2.00Rheumatoid arthritis monitoring invitation1075799mM2.00Rheumatoid arthritis monitoring invita | 100820 | 66HC.00 | Rheumatic disorder annual review invitation |
| 1114836606.00Diabetic on insulin and glucagon-like peptide 1657616844.00Corgenital eye disorder screen1010676A61.00Attention deficit hyperactivity disorder annual review35736A9.00Attention deficit hyperactivity disorder annual review354171011Pineal gland operations95444790M000Total cavopulmonary con extrac inf cav vein pulmon art con91855790M100Total cavopulmonary connection with lateral atrial tunnel93699791C000Aortic root replacement using homograft91044791C300Aortic root replacement using mechanical prosthesis71658791C400Aortic root replacement681387A04.00Other connection from aorta to pulmonary artery792687Q09100Hypeplastic haemolytic and renal anaemia drugs Band 2911777102C00Hemicranitomy929687Q09100Hypeplastic haemolytic and renal anaemia drugs Band 2910917Q0B100Hypeplastic haemolytic and renal anaemia drugs Band 2911777102C00Hemicranitomy929687Q09100Hypeuplastic haemolytic and renal anaemia drugs Band 2910917Q0B100Hypeuricaemia drugs Band 161670889A.00Diab mellit insulin-glucose infus acute myocardial infarct9173409mM.00Rheumatoid arthritis monitoring invitation1073439mM.00Rheumatoid arthritis monitoring invitation fist letter1075759mM1.00Rheumatoid arthritis monitoring invitation fist letter107669mM4 | 110344 | 66o2.00 | Diabetic on non-insulin injectable medication |
| 6576168A4.00Congenital eve disorder screen1010676A61.00Attention deficit hyperactivity disorder annual review457736A900Attial fibrillation annual review3954171011Pineal gland operations95444790M000Total cavopulmonary connection with lateral atrial tunnel93699791C000Aortic root replacement using homograft91044791C300Aortic root replacement using mechanical prosthesis71668791C400Aortic root replacement81387A04.00Other connection from aorta to pulmonary artery398577H40600Transposition of iliopsoas muscle91177702C00Hemicraniotomy929687Q09100Hyperuricaemia drugs Band 161670889A.00Diab mellit insulin-glucose infus acute myocardial infarct531118873.00Vitamin D supplements1075559mM.000Rheumatoid arthritis monitoring invitation1075759mM.00Rheumatoid arthritis monitoring invitation1075759mM.00Rheumatoid arthritis monitoring urbation57829Os00Atrial fibrillation monitoring urbation578329Os00Atrial fibrillation monitoring urbation57843A70200Heumatoid arthritis monitoring invitation1075759mM.00Rheumatoid arthritis monitoring invitation578329Os00Atrial fibrillation monitoring telephone invitation57843A32.11Lipodystrophy, intestinal52673A413.10Progressive multifocal leuco | 110379 | 6605.00 | Diabetic on oral treatment and glucagon-like peptide 1 |
| 1010676A61.00Attention deficit hyperactivity disorder annual review457736A900Attrial fibrillation annual review3954171011Pineal gland operations95444790M000Total cavopulmonary con extrac inf cav vein pulmon at con91455790M100Total cavopulmonary connection with lateral atrial tunnel93699791C000Aortic root replacement using homograft91004791C300Aortic root replacement using mechanical prosthesis71668791C400Aortic root replacement681387A04.00Other connection from aorta to pulmonary artery398577H40600Transposition of iliopsoas muscle911777J02C00Hemicraniotomy929687Q09100Hypeplastic haemolytic and renal anaemia drugs Band 2910917Q08100Hyperuricaemia drugs Band 161670&89A.00Diab mellit insulin-glucose infus acute myocardial infarct53111&873.00Vitamin D supplements1073409mM.00Rheumatoid arthritis monitoring invitation1074559mM0.00Rheumatoid arthritis monitoring invitation1075759mM1.00Rheumatoid arthritis monitoring rubal invitation1075799mM4.00Rheumatoid arthritis monitoring telephone invitation1077979mM4.00Rheumatoid arthritis monitoring telephone invitation1075759mM4.00Rheumatoid arthritis monitoring telephone invitation1075759mM4.00Rheumatoid arthritis monitoring telephone invitation107669mM3.00Rheuma | 111483 | 6606.00 | Diabetic on insulin and glucagon-like peptide 1 |
| 457736A9.00Atrial fibrillation annual review3954171011Pineal gland operations95444790M000Total cavopulmonary con extrac inf cav vein pulmon art con91455790M100Total cavopulmonary connection with lateral atrial tunnel93699791C000Aortic root replac us pul val auto ri vent pulm art val cond70353791C200Aortic root replacement using homograft91004791C300Aortic root replacement using mechanical prosthesis71668791C400Aortic root replacement681387A04.00Other connection from aorta to pulmonary artery398577H40600Transposition of iliopsoas muscle911777/02C00Hemicraniotomy929687009100Hypoplastic haemolytic and renal anaemia drugs Band 2910917Q08100Hyperuricaemia drugs Band 161670889A.00Diab mellit insulin-glucose infus acute myocardial infarct531118873.00Vitamin D supplements1055548CMW200Arteial fibrillation care pathway1073409mM.00Rheumatoid arthritis monitoring invitation first letter1076769mM2.00Rheumatoid arthritis monitoring invitation second letter1076769mM3.00Rheumatoid arthritis monitoring verbal invitation1077779mM4.00Rheumatoid arthritis monitoring invitation1077799mM4.00Rheumatoid arthritis monitoring invitation1077979mM4.00Rheumatoid arthritis monitoring telephone invitation1077979mM4.00Rheumatoid a | 65761 | 68A4.00 | Congenital eye disorder screen |
| 39541710.11Pineal gland operations95444790M000Total cavopulmonary con extrac inf cav vein pulmon art con91455790M100Total cavopulmonary connection with lateral atrial tunnel93699791C000Aortic root replace us pul val auto ri vent pulm art val cond70353791C200Aortic root replacement using homograft91044791C300Aortic root replacement using homograft91057790L200Aortic root replacement using mechanical prosthesis71668791C400Aortic root replacement681387A04.00Other connection from aorta to pulmonary artery398577H40600Transposition of iliopsoas muscle911777J02C00Hemicraniotomy929687Q09100Hyperuricaemia drugs Band 161670889A.00Diab mellit insulin-glucose infus acute myocardial infarct531118873.00Vitamin D supplements1055548CMW200Atrial fibrillation care pathway1073409mM.00Rheumatoid arthritis monitoring invitation first letter1075759mM1.00Rheumatoid arthritis monitoring invitation second letter1076669mM3.00Rheumatoid arthritis monitoring verbal invitation1077979mM4.00Rheumatoid arthritis monitoring verbal invitation1077979mM4.00Rheumatoid arthritis monitoring telephone invitation1077979mM4.00Rheumatoid arthritis monitoring telephone invitation1077979mM4.00Rheumatoid arthritis monitoring telephone invitation1077979mM4. | 101067 | 6A61.00 | Attention deficit hyperactivity disorder annual review |
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| 91455790M100Total cavopulmonary connection with lateral atrial tunnel93699791C000Aortic root replace us pul val auto ri vent pulm art val cond70353791C200Aortic root replacement using homograft91004791C300Aortic root replacement using mechanical prosthesis71668791C400Aortic root replacement681387A04.00Other connection from aorta to pulmonary artery398577H40600Transposition of iliopsoas muscle911777J02C00Hemicraniotomy929687Q09100Hypoplastic haemolytic and renal anaemia drugs Band 2910917Q08100Hyperuricaemia drugs Band 161670889A.00Diab mellit insulin-glucose infus acute myocardial infarct531118873.00Vitamin D supplements1055548CMW200Artial fibrillation care pathway1073409mM.00Rheumatoid arthritis monitoring invitation first letter1075759mM4.00Rheumatoid arthritis monitoring invitation second letter1076769mM3.00Rheumatoid arthritis monitoring invitation1077979mM4.00Rheumatoid arthritis monitoring invitation1078329cs.00Atrial fibrillation monitoring administration1078459mM2.00Rheumatoid arthritis monitoring thelphone invitation1078759mM4.00Rheumatoid arthritis monitoring thelphone invitation1078769mM4.00Rheumatoid arthritis monitoring invitation1078779mM4.00Rheumatoid arthritis monitoring thelphone invitation10788 <t< td=""><td>39541</td><td>71011</td><td>Pineal gland operations</td></t<> | 39541 | 71011 | Pineal gland operations |
| 93699791C000Aortic root replac us pul val auto ri vent pulm art val cond70353791C200Aortic root replacement using mochanical prosthesis91004791C300Aortic root replacement681387A04.00Other connection from aorta to pulmonary artery398577H40600Transposition of iliopsoas muscle911777102C00Hemicraniotomy929687Q09100Hypoplastic haemolytic and renal anaemia drugs Band 2910917Q0B100Hyperuricaemia drugs Band 161670889A.00Diab mellit insulin-glucose infus acute myocardial infarct531118873.00Vitamin D supplements1073409mM.00Rheumatoid arthritis monitoring invitation1074359mM0.00Rheumatoid arthritis monitoring invitation first letter1075759mM1.00Rheumatoid arthritis monitoring invitation third letter1076769mM3.00Rheumatoid arthritis monitoring invitation1077979mM4.00Rheumatoid arthritis monitoring delphone invitation1078759mM1.00Rheumatoid arthritis monitoring administration68816A213.00Occuloglandular tularaemia39419A3A2.11Lipodystrophy, intestinal52673A413.00Progressive multifocal leucoencephalopathy49541A413.11Progressive multifocal leucoencephalopathy49542A57y400Pseudoscarlatina2413A702000Hepatitis C23770A788.00Acquired immune deficiency syndrome103962A78y300Marburg disease< | 95444 | 790M000 | Total cavopulmonary con extrac inf cav vein pulmon art con |
| 70353791C200Aortic root replacement using mechanical prosthesis91004791C300Aortic root replacement91064791C400Aortic root replacement681387A04.00Other connection from aorta to pulmonary artery398577H40600Transposition of iliopsoas muscle911777J02C00Hemicraniotomy929687Q09100Hypoplastic haemolytic and renal anaemia drugs Band 2910917Q08100Hypoplastic haemolytic and renal anaemia drugs Band 2910917Q08100Hypoplastic haemolytic and renal anaemia drugs Band 2910917Q08100Hyperuricaemia drugs Band 161670889A.00Diab mellit insulin-glucose infus acute myocardial infarct531118B73.00Vitamin D supplements1055548CMW200Atrial fibrillation care pathway1074359mM.000Rheumatoid arthritis monitoring invitation1074359mM1.00Rheumatoid arthritis monitoring invitation first letter1076669mM3.00Rheumatoid arthritis monitoring invitation second letter1076669mM3.00Rheumatoid arthritis monitoring verbal invitation1077779mM4.00Rheumatoid arthritis monitoring verbal invitation578329Os.00Atrial fibrillation monitoring administration68816A213.00Oculoglandular tularaemia39419A3A2.11Lipodystrophy, intestinal52673A413.00Progressive multifocal leukoencephalopathy49468A57y400Pseudoscarlatina2413A702000 | 91455 | 790M100 | Total cavopulmonary connection with lateral atrial tunnel |
| 70353791C200Aortic root replacement using mechanical prosthesis91004791C300Aortic root replacement91064791C400Aortic root replacement681387A04.00Other connection from aorta to pulmonary artery398577H40600Transposition of iliopsoas muscle911777J02C00Hemicraniotomy929687Q09100Hypoplastic haemolytic and renal anaemia drugs Band 2910917Q08100Hypoplastic haemolytic and renal anaemia drugs Band 2910917Q08100Hypoplastic haemolytic and renal anaemia drugs Band 2910917Q08100Hyperuricaemia drugs Band 161670889A.00Diab mellit insulin-glucose infus acute myocardial infarct531118B73.00Vitamin D supplements1055548CMW200Atrial fibrillation care pathway1074359mM.000Rheumatoid arthritis monitoring invitation1074359mM1.00Rheumatoid arthritis monitoring invitation first letter1076669mM3.00Rheumatoid arthritis monitoring invitation second letter1076669mM3.00Rheumatoid arthritis monitoring verbal invitation1077779mM4.00Rheumatoid arthritis monitoring verbal invitation578329Os.00Atrial fibrillation monitoring administration68816A213.00Oculoglandular tularaemia39419A3A2.11Lipodystrophy, intestinal52673A413.00Progressive multifocal leukoencephalopathy49468A57y400Pseudoscarlatina2413A702000 | 93699 | 791C000 | Aortic root replac us pul val auto ri vent pulm art val cond |
| 71668791C400Aortic root replacement681387A04.00Other connection from aorta to pulmonary artery398577H40600Transposition of iliopsoas muscle911777J02C00Hemicraniotomy929687Q09100Hypoplastic haemolytic and renal anaemia drugs Band 2910917Q08100Hyperuricaemia drugs Band 161670889A.00Diab mellit insulin-glucose infus acute myocardial infarct531118B73.00Vitamin D supplements1055548CMW200Atrial fibrillation care pathway1073409mM.00Rheumatoid arthritis monitoring invitation1074359mM0.00Rheumatoid arthritis monitoring invitation first letter1075759mM1.00Rheumatoid arthritis monitoring invitation second letter1076669mM2.00Rheumatoid arthritis monitoring verbal invitation1077979mM4.00Rheumatoid arthritis monitoring telephone invitation1077979mM4.00Rheumatoid arthritis monitoring deliphone invitation5783290s.00Atrial fibrillation monitoring administration68816A213.00Occuloglandular tularaemia39419A3A2.11Lipodystrophy, intestinal25673A413.01Progressive multifocal leucoencephalopathy49541A413.11Progressive multifocal leucoencephalopathy49542A90.00Congenital syphilitic choroiditis69219A900.01Congenital syphilitic choroiditis69219A900.12Congenital syphilitic cosecohondritis69219A900.14 <td>70353</td> <td>791C200</td> <td></td> | 70353 | 791C200 | |
| 681387A04.00Other connection from aorta to pulmonary artery398577H40600Transposition of iliopsoas muscle911777J02C00Hemicraniotomy929687Q09100Hypoplastic haemolytic and renal anaemia drugs Band 2910917Q0B100Hyperuricaemia drugs Band 161670889A.00Diab mellit insulin-glucose infus acute myocardial infarct531118B73.00Vitamin D supplements1055548CMW200Atrial fibrillation care pathway1073409mM.000Rheumatoid arthritis monitoring invitation1074359mM0.00Rheumatoid arthritis monitoring invitation first letter1075759mM1.00Rheumatoid arthritis monitoring invitation second letter1076769mM2.00Rheumatoid arthritis monitoring verbal invitation1077779mM4.00Rheumatoid arthritis monitoring telephone invitation1077979mM4.00Rheumatoid arthritis monitoring delephone invitation1077979mM4.00Rheumatoid arthritis monitoring delephone invitation26732A413.00Occuloglandular tularaemia39419A3A2.11Lipodystrophy, intestinal52673A413.00Progressive multifocal leucoencephalopathy49541A413.11Progressive multifocal leucoencephalopathy49468A57y400Pseudoscarlatina21370A788.00Acquired immune deficiency syndrome103962A78y300Marburg disease27420A90.012Congenital syphilitic choroiditis69219A900.12Congenital | 91004 | 791C300 | Aortic root replacement using mechanical prosthesis |
| 398577H40600Transposition of iliopsoas muscle911777J02C00Hemicraniotomy929687Q09100Hyppplastic haemolytic and renal anaemia drugs Band 2910917Q0B100Hyperuricaemia drugs Band 161670889A.00Diab mellit insulin-glucose infus acute myocardial infarct531118873.00Vitamin D supplements1055548CMW200Atrial fibrillation care pathway1073409mM.00Rheumatoid arthritis monitoring invitation1074359mM0.00Rheumatoid arthritis monitoring invitation first letter1075759mM1.00Rheumatoid arthritis monitoring invitation second letter1076669mM2.00Rheumatoid arthritis monitoring trivitation1077979mM4.00Rheumatoid arthritis monitoring trivitation1077979mM4.00Rheumatoid arthritis monitoring telephone invitation1077979mM4.00Rheumatoid arthritis monitoring telephone invitation10783290s00Atrial fibrillation monitoring administration68816A213.00Oculoglandular tularaemia39419A3A2.11Lipodystrophy, intestinal52673A413.00Progressive multifocal leucoencephalopathy49541A413.11Progressive multifocal leukoencephalopathy49542A57y400Pseudoscarlatina2413A702000Hepatits C23770A788.00Acquired immune deficiency syndrome103962A78y300Maburg disease27420A90.012Congenital syphilitic coroiditis692 | 71668 | 791C400 | · · · · · · · · · · · · · · · · · · · |
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| 929687Q09100Hypoplastic haemolytic and renal anaemia drugs Band 2910917Q0B100Hyperuricaemia drugs Band 161670889A.00Diab mellit insulin-glucose infus acute myocardial infarct531118B73.00Vitamin D supplements1055548CMW200Atrial fibrillation care pathway1073409mM.00Rheumatoid arthritis monitoring invitation1074359mM0.00Rheumatoid arthritis monitoring invitation first letter1075759mM1.00Rheumatoid arthritis monitoring invitation second letter1076769mM2.00Rheumatoid arthritis monitoring invitation third letter1076769mM3.00Rheumatoid arthritis monitoring verbal invitation1077979mM4.00Rheumatoid arthritis monitoring telephone invitation1077979mM4.00Rheumatoid arthritis monitoring administration68816A213.00Oculoglandular tularaemia39419A3A2.11Lipodystrophy, intestinal52673A413.00Progressive multifocal leucoencephalopathy49468A57y400Pseudoscarlatina2413A70200Hepatitis C23770A788.00Acquired immune deficiency syndrome103962A78y300Marburg disease27420A90.12Congenital syphilitic choroiditis69219A90.14Congenital syphilitic osteochondritis69219A90.400Juvenile neurosyphilis57279A904200Congenital syphilitic gumma | 39857 | 7H40600 | Transposition of iliopsoas muscle |
| 910917Q0B100Hyperuricaemia drugs Band 161670889A.00Diab mellit insulin-glucose infus acute myocardial infarct531118873.00Vitamin D supplements1055548CMW200Atrial fibrillation care pathway1073409mM.00Rheumatoid arthritis monitoring invitation1074359mM0.00Rheumatoid arthritis monitoring invitation first letter1075759mM1.00Rheumatoid arthritis monitoring invitation second letter1076769mM2.00Rheumatoid arthritis monitoring invitation third letter1076769mM3.00Rheumatoid arthritis monitoring verbal invitation1077979mM4.00Rheumatoid arthritis monitoring telephone invitation1077979mM4.00Rheumatoid arthritis monitoring administration68816A213.00Oculoglandular tularaemia39419A3A2.11Lipodystrophy, intestinal52673A413.00Progressive multifocal leucoencephalopathy49541A413.11Progressive multifocal leukoencephalopathy49468A57y400Pseudoscarlatina2413A702000Hepatitis C23770A788.00Acquired immune deficiency syndrome103962A78y300Marburg disease27420A90.012Congenital syphilitic costeochondritis69219A900.14Congenital syphillitic costeochondritis69219A90.16Congenital syphillitic osteochondritis69219A904.00Juvenile neurosyphillis57279A904200Congenital syphilitic gumma <td>91177</td> <td>7J02C00</td> <td>Hemicraniotomy</td> | 91177 | 7J02C00 | Hemicraniotomy |
| 61670889A.00Diab mellit insulin-glucose infus acute myocardial infarct531118873.00Vitamin D supplements1055548CMW200Atrial fibrillation care pathway1073409mM00Rheumatoid arthritis monitoring invitation1074359mM0.00Rheumatoid arthritis monitoring invitation first letter1075759mM1.00Rheumatoid arthritis monitoring invitation second letter1076769mM2.00Rheumatoid arthritis monitoring invitation third letter1076769mM4.00Rheumatoid arthritis monitoring verbal invitation1077979mM4.00Rheumatoid arthritis monitoring verbal invitation1077979mM4.00Rheumatoid arthritis monitoring telephone invitation578329Os00Atrial fibrillation monitoring administration68816A213.00Oculoglandular tularaemia39419A3A2.11Lipodystrophy, intestinal52673A413.00Progressive multifocal leucoencephalopathy49541A413.11Progressive multifocal leukoencephalopathy49468A57y400Pseudoscarlatina2413A702000Hepatitis C23770A788.00Acquired immune deficiency syndrome103962A78y300Marburg disease27420A90.012Congenital syphilitic choroiditis69219A900.14Congenital syphilitic costeochondritis45320A904.00Juvenile neurosyphilis57279A904200Congenital syphilitic meningitis46401A905000Congenital syphilitic gumma< | 92968 | 7Q09100 | Hypoplastic haemolytic and renal anaemia drugs Band 2 |
| 531118B73.00Vitamin D supplements1055548CMW200Atrial fibrillation care pathway1073409mM00Rheumatoid arthritis monitoring invitation1074359mM0.00Rheumatoid arthritis monitoring invitation first letter1075759mM1.00Rheumatoid arthritis monitoring invitation second letter1076769mM2.00Rheumatoid arthritis monitoring invitation third letter1076769mM3.00Rheumatoid arthritis monitoring verbal invitation1077979mM4.00Rheumatoid arthritis monitoring telephone invitation1077979mM4.00Rheumatoid arthritis monitoring telephone invitation5783290s00Atrial fibrillation monitoring administration68816A213.00Oculoglandular tularaemia39419A3A2.11Lipodystrophy, intestinal52673A413.00Progressive multifocal leucoencephalopathy49541A413.11Progressive multifocal leucoencephalopathy49468A57y400Pseudoscarlatina2413A702000Hepatitis C23770A788.00Acquired immune deficiency syndrome103962A78y300Marburg disease27420A90.12Congenital syphilitic choroiditis69219A900.14Congenital syphilitic osteochondritis45320A904.00Juvenile neurosyphilis57279A904200Congenital syphilitic meningitis46401A905000Congenital syphilitic gumma | 91091 | 7Q0B100 | Hyperuricaemia drugs Band 1 |
| 1055548CMW200Atrial fibrillation care pathway1073409mM00Rheumatoid arthritis monitoring invitation1074359mM0.00Rheumatoid arthritis monitoring invitation first letter1075759mM1.00Rheumatoid arthritis monitoring invitation second letter1076769mM2.00Rheumatoid arthritis monitoring invitation third letter1076769mM4.00Rheumatoid arthritis monitoring verbal invitation1077979mM4.00Rheumatoid arthritis monitoring telephone invitation1077979mM4.00Rheumatoid arthritis monitoring telephone invitation5783290s00Atrial fibrillation monitoring administration68816A213.00Oculoglandular tularaemia39419A3A2.11Lipodystrophy, intestinal52673A413.00Progressive multifocal leucoencephalopathy49468A57y400Pseudoscarlatina2413A702000Hepatitis C23770A788.00Acquired immune deficiency syndrome103962A78y300Marburg disease27420A9000Congenital syphilitic choroiditis69219A90.14Congenital syphilitic cisteochondritis69219A90.00Juvenile neurosyphilis57279A904200Congenital syphilitic meningitis64601A905000Congenital syphilitic gumma | 61670 | 889A.00 | Diab mellit insulin-glucose infus acute myocardial infarct |
| 1073409mM00Rheumatoid arthritis monitoring invitation1074359mM0.00Rheumatoid arthritis monitoring invitation first letter1075759mM1.00Rheumatoid arthritis monitoring invitation second letter1076769mM2.00Rheumatoid arthritis monitoring invitation third letter1076069mM3.00Rheumatoid arthritis monitoring verbal invitation1077979mM4.00Rheumatoid arthritis monitoring verbal invitation5783290s00Atrial fibrillation monitoring administration68816A213.00Oculoglandular tularaemia39419A3A2.11Lipodystrophy, intestinal52673A413.00Progressive multifocal leucoencephalopathy49541A413.11Progressive multifocal leukoencephalopathy49468A57y400Pseudoscarlatina2413A702000Hepatitis C23770A788.00Acquired immune deficiency syndrome103962A78y300Marburg disease27420A90.12Congenital syphilitic choroiditis69219A901.14Congenital syphilitic osteochondritis45320A904.00Juvenile neurosyphilis57279A904200Congenital syphilitic gumma | 53111 | 8B73.00 | Vitamin D supplements |
| 1074359mM0.00Rheumatoid arthritis monitoring invitation first letter1075759mM1.00Rheumatoid arthritis monitoring invitation second letter1076769mM2.00Rheumatoid arthritis monitoring invitation third letter1076069mM3.00Rheumatoid arthritis monitoring verbal invitation1077979mM4.00Rheumatoid arthritis monitoring verbal invitation1077979mM4.00Rheumatoid arthritis monitoring telephone invitation5783290s.00Atrial fibrillation monitoring administration68816A213.00Oculoglandular tularaemia39419A3A2.11Lipodystrophy, intestinal52673A413.00Progressive multifocal leucoencephalopathy49541A413.11Progressive multifocal leukoencephalopathy49468A57y400Pseudoscarlatina2413A702000Hepatitis C23770A788.00Acquired immune deficiency syndrome103962A78y300Marburg disease27420A90.12Congenital syphilitic choroiditis69219A900.14Congenital syphilitic epiphysitis22157A900.16Congenital syphilitic osteochondritis45320A94.00Juvenile neurosyphilis57279A904200Congenital syphilitic gumma | 105554 | 8CMW200 | Atrial fibrillation care pathway |
| 1075759mM1.00Rheumatoid arthritis monitoring invitation second letter1076769mM2.00Rheumatoid arthritis monitoring invitation third letter1076069mM3.00Rheumatoid arthritis monitoring verbal invitation1077979mM4.00Rheumatoid arthritis monitoring telephone invitation5783290S00Atrial fibrillation monitoring administration68816A213.00Oculoglandular tularaemia39419A3A2.11Lipodystrophy, intestinal52673A413.00Progressive multifocal leucoencephalopathy49541A413.11Progressive multifocal leukoencephalopathy49468A57y400Pseudoscarlatina2413A702000Hepatitis C23770A788.00Acquired immune deficiency syndrome103962A78y300Marburg disease27420A9000Congenital syphilitic choroiditis69219A900.14Congenital syphilitic osteochondritis45320A904.00Juvenile neurosyphilis57279A904200Congenital syphilitic gumma | 107340 | 9mM00 | Rheumatoid arthritis monitoring invitation |
| 1076769mM2.00Rheumatoid arthritis monitoring invitation third letter1076069mM3.00Rheumatoid arthritis monitoring verbal invitation1077979mM4.00Rheumatoid arthritis monitoring telephone invitation5783290s.00Atrial fibrillation monitoring administration68816A213.00Oculoglandular tularaemia39419A3A2.11Lipodystrophy, intestinal52673A413.00Progressive multifocal leucoencephalopathy49541A413.11Progressive multifocal leukoencephalopathy49468A57y400Pseudoscarlatina2413A70z000Hepatitis C23770A788.00Acquired immune deficiency syndrome103962A78y300Marburg disease27420A90.12Congenital syphilitic choroiditis69219A900.14Congenital syphilitic osteochondritis45320A904.00Juvenile neurosyphilis57279A904200Congenital syphilitic meningitis46401A905000Congenital syphilitic gumma | 107435 | 9mM0.00 | Rheumatoid arthritis monitoring invitation first letter |
| 1076069mM3.00Rheumatoid arthritis monitoring verbal invitation1077979mM4.00Rheumatoid arthritis monitoring telephone invitation5783290s.00Atrial fibrillation monitoring administration68816A213.00Oculoglandular tularaemia39419A3A2.11Lipodystrophy, intestinal52673A413.00Progressive multifocal leucoencephalopathy49541A413.11Progressive multifocal leukoencephalopathy49468A57y400Pseudoscarlatina2413A70z000Hepatitis C23770A788.00Acquired immune deficiency syndrome103962A78y300Marburg disease27420A90.12Congenital syphilitic choroiditis69219A900.14Congenital syphilitic osteochondritis45320A904.00Juvenile neurosyphilis57279A904200Congenital syphilitic gumma | 107575 | 9mM1.00 | Rheumatoid arthritis monitoring invitation second letter |
| 1077979mM4.00Rheumatoid arthritis monitoring telephone invitation578329Os00Atrial fibrillation monitoring administration68816A213.00Oculoglandular tularaemia39419A3A2.11Lipodystrophy, intestinal52673A413.00Progressive multifocal leucoencephalopathy49541A413.11Progressive multifocal leukoencephalopathy49468A57y400Pseudoscarlatina2413A702000Hepatitis C23770A788.00Acquired immune deficiency syndrome103962A78y300Marburg disease27420A9000Congenital syphilitic choroiditis69219A900.12Congenital syphilitic osteochondritis69219A904.00Juvenile neurosyphilis57279A904200Congenital syphilitic meningitis46401A905000Congenital syphilitic gumma | 107676 | 9mM2.00 | Rheumatoid arthritis monitoring invitation third letter |
| 5783290s00Atrial fibrillation monitoring administration68816A213.00Oculoglandular tularaemia39419A3A2.11Lipodystrophy, intestinal52673A413.00Progressive multifocal leucoencephalopathy49541A413.11Progressive multifocal leukoencephalopathy49468A57y400Pseudoscarlatina2413A702000Hepatitis C23770A788.00Acquired immune deficiency syndrome103962A78y300Marburg disease27420A9000Congenital syphilitic choroiditis69219A900.12Congenital syphilitic epiphysitis22157A900.16Congenital syphilitic osteochondritis45320A904.00Juvenile neurosyphilis57279A904200Congenital syphilitic meningitis46401A905000Congenital syphilitic gumma | 107606 | 9mM3.00 | Rheumatoid arthritis monitoring verbal invitation |
| 68816A213.00Oculoglandular tularaemia39419A3A2.11Lipodystrophy, intestinal52673A413.00Progressive multifocal leucoencephalopathy49541A413.11Progressive multifocal leukoencephalopathy49468A57y400Pseudoscarlatina2413A70z000Hepatitis C23770A788.00Acquired immune deficiency syndrome103962A78y300Marburg disease27420A90.00Congenital syphilis50581A900.12Congenital syphilitic choroiditis69219A900.14Congenital syphilitic osteochondritis45320A94.00Juvenile neurosyphilis57279A904200Congenital syphilitic meningitis46401A905000Congenital syphilitic gumma | 107797 | 9mM4.00 | Rheumatoid arthritis monitoring telephone invitation |
| 39419A3A2.11Lipodystrophy, intestinal52673A413.00Progressive multifocal leucoencephalopathy49541A413.11Progressive multifocal leukoencephalopathy49468A57y400Pseudoscarlatina2413A702000Hepatitis C23770A788.00Acquired immune deficiency syndrome103962A78y300Marburg disease27420A9000Congenital syphilis50581A900.12Congenital syphilitic choroiditis69219A900.14Congenital syphilitic osteochondritis2157A900.16Congenital syphilitic osteochondritis45320A904.00Juvenile neurosyphilis57279A904200Congenital syphilitic meningitis46401A905000Congenital syphilitic gumma | 57832 | 90s00 | Atrial fibrillation monitoring administration |
| 52673A413.00Progressive multifocal leucoencephalopathy49541A413.11Progressive multifocal leukoencephalopathy4948A57y400Pseudoscarlatina2413A70z000Hepatitis C23770A788.00Acquired immune deficiency syndrome103962A78y300Marburg disease27420A90.00Congenital syphilis50581A900.12Congenital syphilitic choroiditis69219A900.14Congenital syphilitic epiphysitis2157A904.00Juvenile neurosyphilis57279A904200Congenital syphilitic meningitis46401A905000Congenital syphilitic gumma | 68816 | A213.00 | Oculoglandular tularaemia |
| 49541A413.11Progressive multifocal leukoencephalopathy49468A57y400Pseudoscarlatina2413A70z000Hepatitis C23770A788.00Acquired immune deficiency syndrome103962A78y300Marburg disease27420A9000Congenital syphilis50581A900.12Congenital syphilitic choroiditis69219A900.14Congenital syphilitic epiphysitis22157A900.16Congenital syphilitic osteochondritis45320A904.00Juvenile neurosyphilis57279A904200Congenital syphilitic gumma | 39419 | A3A2.11 | Lipodystrophy, intestinal |
| 49468A57y400Pseudoscarlatina2413A70z000Hepatitis C23770A788.00Acquired immune deficiency syndrome103962A78y300Marburg disease27420A9000Congenital syphilis50581A900.12Congenital syphilitic choroiditis69219A900.14Congenital syphilitic epiphysitis22157A900.16Congenital syphilitic osteochondritis45320A904.00Juvenile neurosyphilis57279A904200Congenital syphilitic meningitis46401A905000Congenital syphilitic gumma | 52673 | A413.00 | Progressive multifocal leucoencephalopathy |
| 2413A70z000Hepatitis C23770A788.00Acquired immune deficiency syndrome103962A78y300Marburg disease27420A9000Congenital syphilis50581A900.12Congenital syphilitic choroiditis69219A900.14Congenital syphilitic epiphysitis22157A900.16Congenital syphilitic osteochondritis45320A904.00Juvenile neurosyphilis57279A904200Congenital syphilitic meningitis46401A905000Congenital syphilitic gumma | 49541 | A413.11 | Progressive multifocal leukoencephalopathy |
| 23770A788.00Acquired immune deficiency syndrome103962A78y300Marburg disease27420A9000Congenital syphilis50581A900.12Congenital syphilitic choroiditis69219A900.14Congenital syphilitic epiphysitis22157A900.16Congenital syphilitic osteochondritis45320A904.00Juvenile neurosyphilis57279A904200Congenital syphilitic meningitis46401A905000Congenital syphilitic gumma | 49468 | A57y400 | Pseudoscarlatina |
| 103962A78y300Marburg disease27420A9000Congenital syphilis50581A900.12Congenital syphilitic choroiditis69219A900.14Congenital syphilitic epiphysitis22157A900.16Congenital syphilitic osteochondritis45320A904.00Juvenile neurosyphilis57279A904200Congenital syphilitic meningitis46401A905000Congenital syphilitic gumma | 2413 | A70z000 | Hepatitis C |
| 27420A9000Congenital syphilis50581A900.12Congenital syphilitic choroiditis69219A900.14Congenital syphilitic epiphysitis22157A900.16Congenital syphilitic osteochondritis45320A904.00Juvenile neurosyphilis57279A904200Congenital syphilitic meningitis46401A905000Congenital syphilitic gumma | 23770 | A788.00 | Acquired immune deficiency syndrome |
| 50581A900.12Congenital syphilitic choroiditis69219A900.14Congenital syphilitic epiphysitis22157A900.16Congenital syphilitic osteochondritis45320A904.00Juvenile neurosyphilis57279A904200Congenital syphilitic meningitis46401A905000Congenital syphilitic gumma | 103962 | A78y300 | Marburg disease |
| 69219A900.14Congenital syphilitic epiphysitis22157A900.16Congenital syphilitic osteochondritis45320A904.00Juvenile neurosyphilis57279A904200Congenital syphilitic meningitis46401A905000Congenital syphilitic gumma | 27420 | A9000 | Congenital syphilis |
| 22157A900.16Congenital syphilitic osteochondritis45320A904.00Juvenile neurosyphilis57279A904200Congenital syphilitic meningitis46401A905000Congenital syphilitic gumma | 50581 | A900.12 | Congenital syphilitic choroiditis |
| 45320A904.00Juvenile neurosyphilis57279A904200Congenital syphilitic meningitis46401A905000Congenital syphilitic gumma | 69219 | A900.14 | Congenital syphilitic epiphysitis |
| 57279A904200Congenital syphilitic meningitis46401A905000Congenital syphilitic gumma | 22157 | A900.16 | Congenital syphilitic osteochondritis |
| 46401 A905000 Congenital syphilitic gumma | 45320 | A904.00 | Juvenile neurosyphilis |
| | 57279 | A904200 | Congenital syphilitic meningitis |
| 96000 A907.00 Unspecified late congenital syphilis | 46401 | A905000 | Congenital syphilitic gumma |
| | 96000 | A907.00 | Unspecified late congenital syphilis |

| Medcode | Read Code | Description | |
|---------|-----------|---|--|
| 60039 | A90z.00 | Congenital syphilis NOS | |
| 67955 | A985z11 | Rheumatism - gonococcal | |
| 8103 | A993.00 | Reiter's disease / syndrome | |
| 2194 | A993.11 | Reiter's syndrome | |
| 73638 | AB4zz00 | Unspecified histoplasmosis NOS | |
| 52030 | AB68.00 | Phaeohyphomycosis | |
| 42603 | AC22.00 | Thyroid echinococcus granulosus | |
| 3865 | AD500 | Sarcoidosis | |
| 33980 | AD50.00 | Sarcoidosis of lung | |
| 49075 | AD51.00 | Sarcoidosis of lymph nodes | |
| 58841 | AD52.00 | Sarcoidosis of lung with sarcoidosis of lymph nodes | |
| 27769 | AD53.00 | Sarcoidosis of skin | |
| 72595 | AD54.00 | Sarcoidosis of inferior turbinates | |
| 40613 | AD55.00 | Sarcoid arthropathy | |
| 16235 | AD61.00 | Behcet's syndrome | |
| 29735 | B3012 | Osteoma | |
| 36325 | B470300 | Teratoma of undescended testis | |
| 18231 | B540.11 | Phaeochromocytoma | |
| 35014 | B622.00 | Sezary's disease | |
| 100532 | B622z00 | Sezary's disease NOS | |
| 4870 | B625.11 | Histiocytosis X (acute, progressive) | |
| 105762 | B62C.00 | Unifocal Langerhans-cell histiocytosis | |
| 105069 | B693.00 | Juvenile myelomonocytic leukaemia | |
| 4794 | B7312 | Osteoma | |
| 15118 | B7B11 | Teratoma, benign | |
| 2321 | B7H2.11 | Pituitary adenoma | |
| 34693 | B7J1.11 | Congenital lymphangioma | |
| 101374 | B7J1000 | Cystic hygroma of neck | |
| 5542 | B934.11 | Polycythaemia rubra vera | |
| 31560 | B937.12 | Idiopathic thrombocythaemia | |
| 677 | C0200 | Thyrotoxicosis | |
| 1472 | C0211 | Hyperthyroidism | |
| 23315 | C020.00 | Toxic diffuse goitre | |
| 5257 | C020.12 | Graves' disease | |
| 26702 | C020000 | Toxic diffuse goitre with no crisis | |
| 57011 | C020100 | Toxic diffuse goitre with crisis | |
| 49334 | C020z00 | Toxic diffuse goitre NOS | |
| 53280 | C021.00 | Toxic uninodular goitre | |
| 26869 | C021000 | Toxic uninodular goitre with no crisis | |
| 61498 | C021z00 | Toxic uninodular goitre NOS | |
| 68512 | C023000 | Toxic nodular goitre unspecified with no crisis | |
| 100004 | C023100 | Toxic nodular goitre unspecified with crisis | |
| 49361 | C023z00 | Toxic nodular goitre NOS | |
| 49508 | C024.00 | Thyrotoxicosis from ectopic thyroid nodule | |
| 64656 | C024000 | Thyrotoxicosis from ectopic thyroid nodule with no crisis | |
| 56270 | C024z00 | Thyrotoxicosis from ectopic thyroid nodule NOS | |
| 43136 | C02y.00 | Thyrotoxicosis of other specified origin | |

| Medcode | Read Code | Description |
|---------|-----------|--|
| 51273 | C02y000 | Thyrotoxicosis of other specified origin with no crisis |
| 106532 | C02y100 | Thyrotoxicosis of other specified origin with crisis |
| 64856 | C02y200 | Thyrotoxicosis factitia |
| 34220 | C02yz00 | Thyrotoxicosis of other specified origin NOS |
| 15565 | C02z.00 | Thyrotoxicosis without mention of goitre or other cause |
| 26701 | C02z000 | Thyrotoxicosis without mention of goitre or cause no crisis |
| 3194 | C02z100 | Thyrotoxicosis without mention of goitre, cause with crisis |
| 26699 | C02zz00 | Thyrotoxicosis NOS |
| 10097 | C0300 | Congenital hypothyroidism |
| 67513 | C0311 | Cretinism |
| 11892 | C030.00 | Pendred's syndrome |
| 31612 | C03y000 | Congenital hypothyroidism with diffuse goitre |
| 93159 | C03y100 | Congenital hypothyroidism without goitre |
| 51481 | C03z.00 | Congenital hypothyroidism NOS |
| 93323 | C03z.11 | Congenital thyroid insufficiency |
| 27533 | C03z.12 | Cretinism |
| 3290 | C0400 | Acquired hypothyroidism |
| 14704 | C0412 | Thyroid deficiency |
| 273 | C0413 | Hypothyroidism |
| 38976 | C043z00 | latrogenic hypothyroidism NOS |
| 31971 | C046.00 | Autoimmune myxoedema |
| 3941 | C04z.00 | Hypothyroidism NOS |
| 23014 | C04z.12 | Thyroid insufficiency |
| 18282 | C04z.13 | Hypothyroid goitre, acquired |
| 1346 | C0500 | Thyroiditis |
| 3857 | C052.11 | Autoimmune thyroiditis |
| 61026 | C054.00 | latrogenic thyroiditis |
| 69113 | C06y100 | Thyroid atrophy |
| 35957 | C06z.00 | Thyroid disorder NOS |
| 96787 | C0A00 | Congenital iodine deficiency syndrome |
| 72331 | C0A0.00 | Congenital iodine-deficiency syndrome, neurological type |
| 39166 | C0A1.00 | Congenital iodine-deficiency syndrome, myxoedematous type |
| 37518 | C0A3.00 | Iodine-deficiency-related diffuse (endemic) goitre |
| 44459 | C0A4.00 | Iodine-deficiency-related multinodular (endemic) goitre |
| 54511 | C0AX.00 | Iodine-deficiency-related (endemic) goitre, unspecified |
| 711 | C1000 | Diabetes mellitus |
| 38986 | C100.00 | Diabetes mellitus with no mention of complication |
| 24490 | C100000 | Diabetes mellitus, juvenile type, no mention of complication |
| 1038 | C100011 | Insulin dependent diabetes mellitus |
| 506 | C100112 | Non-insulin dependent diabetes mellitus |
| 50972 | C100z00 | Diabetes mellitus NOS with no mention of complication |
| 1682 | C101.00 | Diabetes mellitus with ketoacidosis |
| 53200 | C101000 | Diabetes mellitus, juvenile type, with ketoacidosis |
| 42505 | C101z00 | Diabetes mellitus NOS with ketoacidosis |
| 21482 | C102.00 | Diabetes mellitus with hyperosmolar coma |
| 40023 | C102000 | Diabetes mellitus, juvenile type, with hyperosmolar coma |
| 72345 | C102z00 | Diabetes mellitus NOS with hyperosmolar coma |

| 15690C103.00Diabetes mellitus, juvenile type, with ketoacidotic coma65062C103200Diabetes mellitus, NOS with ketoacidotic coma65062C104.00Diabetes mellitus, With renal manifestation9322C104000Diabetes mellitus, juvenile type, with renal manifestation93107C104.00Diabetes mellitus, with nephropathy NOS33174C105.00Diabetes mellitus, juvenile type, + ophthalmic manifestation69748C105.00Diabetes mellitus, juvenile type, + ophthalmic manifestation7795C106.12Diabetes mellitus, with neuropathy67853C106000Diabetes mellitus, juvenile, + neurological manifestation2573C106000Diabetes mellitus, juvenile, + neurological manifestation2573C106000Diabetes mellitus, juvenile - peripheral circulatory disorder3539C107.00Diabetes mellitus, juvenile - peripheral circulatory disorder6505C107.00Diabetes mellitus, juvenile - peripheral circulatory disorder6505C108.01Insulin dependent diabetes mellitus17858C108.11IDDM-Insulin dependent diabetes mellitus17859C108.12Type 1 diabetes mellitus with renal complications17854C108.00Insulin-dependent diabetes mellitus with neurological complications17858C108.12Type 1 diabetes mellitus with nenal complications17859C108.11Type 1 diabetes mellitus with neurological complications17854C108000Insulin-dependent diabetes mellitus with neurological complications17854C108102< | Medcode | Read Code | Description | |
|--|---------|-----------|--|--|
| 65062 C103200 Diabetes mellitus NOS with ketoacidotic coma 15502 C104.000 Diabetes mellitus with renal manifestation 93922 C104000 Diabetes mellitus with ophthalmic manifestation 93107 C104000 Diabetes mellitus with ophthalmic manifestation 9324 C105000 Diabetes mellitus with ophthalmic manifestation 93423 C105000 Diabetes mellitus with ophthalmic manifestation 94283 C10512 Diabetes mellitus with polyneuropathy 16491 C106.13 Diabetes mellitus with polyneuropathy 67853 C106000 Diabetes mellitus with polyneuropathy 67853 C107000 Diabetes mellitus with paripheral circulatory disorder 93243 C10711 Diabetes mellitus yiu yiu peripheral circulatory disorder 65055 C107000 Diabetes mellitus NOS with peripheral circulatory disorder 1647 C108.00 Insulin dependent diabetes mellitus 17858 C108.11 IDDM-Insulin dependent diabetes mellitus 17854 C108000 Insulin-dependent diabetes mellitus with neurological complications 17854 C108010 Insulin-dependent diabetes mellitus with neurological complications < | | | · · · · | |
| 65062 C103200 Diabetes mellitus NOS with ketoacidotic coma 15502 C104.000 Diabetes mellitus with renal manifestation 93922 C104000 Diabetes mellitus with ophthalmic manifestation 93107 C104000 Diabetes mellitus with ophthalmic manifestation 9324 C105000 Diabetes mellitus with ophthalmic manifestation 93423 C105000 Diabetes mellitus with ophthalmic manifestation 94283 C10512 Diabetes mellitus with polyneuropathy 16491 C106.13 Diabetes mellitus with polyneuropathy 67853 C106000 Diabetes mellitus with polyneuropathy 67853 C107000 Diabetes mellitus with paripheral circulatory disorder 93243 C10711 Diabetes mellitus yiu yiu peripheral circulatory disorder 65055 C107000 Diabetes mellitus NOS with peripheral circulatory disorder 1647 C108.00 Insulin dependent diabetes mellitus 17858 C108.11 IDDM-Insulin dependent diabetes mellitus 17854 C108000 Insulin-dependent diabetes mellitus with neurological complications 17854 C108010 Insulin-dependent diabetes mellitus with neurological complications < | | C103000 | | |
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| 61829C108212Type 1 diabetes mellitus with neurological complications52104C108300Insulin dependent diabetes mellitus with multiple complication108007C108311Type I diabetes mellitus with multiple complications44443C108500Insulin dependent diabetes mellitus with ulcer51957C108511Type I diabetes mellitus with ulcer68390C108512Type I diabetes mellitus with ulcer60499C108600Insulin dependent diabetes mellitus with gangrene6509C108700Insulin dependent diabetes mellitus with retinopathy38161C108711Type I diabetes mellitus with retinopathy41049C108712Type I diabetes mellitus with retinopathy6791C108800Insulin dependent diabetes mellitus - poor control46850C108811Type I diabetes mellitus - poor control45914C108912Type I diabetes mellitus - poor control31310C108900Insulin dependent diabetes maturity onset63017C108911Type I diabetes mellitus maturity onset56448C108A00Insulin-dependent diabetes without complication | 52283 | C108200 | Insulin-dependent diabetes mellitus with neurological comps | |
| 52104C108300Insulin dependent diabetes mellitus with multiple complicatin108007C108311Type I diabetes mellitus with multiple complications44443C108500Insulin dependent diabetes mellitus with ulcer51957C108511Type I diabetes mellitus with ulcer68390C108512Type I diabetes mellitus with ulcer60499C108600Insulin dependent diabetes mellitus with gangrene6509C108700Insulin dependent diabetes mellitus with retinopathy38161C108711Type I diabetes mellitus with retinopathy41049C108712Type I diabetes mellitus with retinopathy6791C108800Insulin dependent diabetes mellitus - poor control46850C108811Type I diabetes mellitus - poor control45914C108812Type I diabetes mellitus - poor control31310C108900Insulin dependent diabetes maturity onset63017C108911Type I diabetes mellitus maturity onset56448C108A00Insulin dependent diabetes without complication | 49146 | C108211 | Type I diabetes mellitus with neurological complications | |
| 108007C108311Type I diabetes mellitus with multiple complications44443C108500Insulin dependent diabetes mellitus with ulcer51957C108511Type I diabetes mellitus with ulcer68390C108512Type 1 diabetes mellitus with ulcer60499C108600Insulin dependent diabetes mellitus with gangrene6509C108700Insulin dependent diabetes mellitus with retinopathy38161C108711Type I diabetes mellitus with retinopathy41049C108712Type I diabetes mellitus with retinopathy6509C108800Insulin dependent diabetes mellitus with retinopathy3110C108712Type I diabetes mellitus with retinopathy6791C108800Insulin dependent diabetes mellitus - poor control45914C108811Type I diabetes mellitus - poor control45914C108900Insulin dependent diabetes maturity onset63017C108911Type I diabetes mellitus maturity onset63017C108912Type I diabetes mellitus maturity onset6448C108A00Insulin-dependent diabetes without complication | 61829 | C108212 | Type 1 diabetes mellitus with neurological complications | |
| 44443C108500Insulin dependent diabetes mellitus with ulcer51957C108511Type I diabetes mellitus with ulcer68390C108512Type 1 diabetes mellitus with ulcer60499C108600Insulin dependent diabetes mellitus with gangrene6509C108700Insulin dependent diabetes mellitus with retinopathy38161C108711Type I diabetes mellitus with retinopathy41049C108712Type I diabetes mellitus with retinopathy6791C108800Insulin dependent diabetes mellitus - poor control46850C108811Type I diabetes mellitus - poor control45914C108812Type I diabetes mellitus - poor control31310C108900Insulin dependent diabetes maturity onset63017C108911Type I diabetes mellitus maturity onset56448C108A00Insulin dependent diabetes without complication | 52104 | C108300 | Insulin dependent diabetes mellitus with multiple complicatn | |
| 51957C108511Type I diabetes mellitus with ulcer68390C108512Type 1 diabetes mellitus with ulcer60499C108600Insulin dependent diabetes mellitus with gangrene6509C108700Insulin dependent diabetes mellitus with retinopathy38161C108711Type I diabetes mellitus with retinopathy41049C108712Type 1 diabetes mellitus with retinopathy6791C108800Insulin dependent diabetes mellitus - poor control46850C108811Type I diabetes mellitus - poor control45914C108812Type 1 diabetes mellitus - poor control31310C108900Insulin dependent diabetes maturity onset63017C108911Type I diabetes mellitus maturity onset97446C108400Insulin-dependent diabetes without complication | 108007 | C108311 | Type I diabetes mellitus with multiple complications | |
| 68390C108512Type 1 diabetes mellitus with ulcer60499C108600Insulin dependent diabetes mellitus with gangrene6509C108700Insulin dependent diabetes mellitus with retinopathy38161C108711Type I diabetes mellitus with retinopathy41049C108712Type 1 diabetes mellitus with retinopathy6791C108800Insulin dependent diabetes mellitus - poor control46850C108811Type I diabetes mellitus - poor control45914C108812Type 1 diabetes mellitus - poor control31310C108900Insulin dependent diabetes maturity onset63017C108911Type I diabetes mellitus maturity onset97446C108912Type 1 diabetes mellitus maturity onset56448C108A00Insulin-dependent diabetes without complication | 44443 | C108500 | Insulin dependent diabetes mellitus with ulcer | |
| 60499C108600Insulin dependent diabetes mellitus with gangrene6509C108700Insulin dependent diabetes mellitus with retinopathy38161C108711Type I diabetes mellitus with retinopathy41049C108712Type I diabetes mellitus with retinopathy6791C108800Insulin dependent diabetes mellitus - poor control46850C108811Type I diabetes mellitus - poor control45914C108812Type I diabetes mellitus - poor control31310C108900Insulin dependent diabetes maturity onset63017C108911Type I diabetes mellitus maturity onset97446C108912Type I diabetes mellitus maturity onset56448C108A00Insulin-dependent diabetes without complication | 51957 | C108511 | Type I diabetes mellitus with ulcer | |
| 6509C108700Insulin dependent diabetes mellitus with retinopathy38161C108711Type I diabetes mellitus with retinopathy41049C108712Type 1 diabetes mellitus with retinopathy6791C108800Insulin dependent diabetes mellitus - poor control46850C108811Type I diabetes mellitus - poor control45914C108812Type I diabetes mellitus - poor control31310C108900Insulin dependent diabetes maturity onset63017C108911Type I diabetes mellitus maturity onset97446C108912Type 1 diabetes mellitus maturity onset56448C108A00Insulin-dependent diabetes without complication | 68390 | C108512 | Type 1 diabetes mellitus with ulcer | |
| 38161C108711Type I diabetes mellitus with retinopathy41049C108712Type 1 diabetes mellitus with retinopathy6791C108800Insulin dependent diabetes mellitus - poor control46850C108811Type I diabetes mellitus - poor control45914C108812Type 1 diabetes mellitus - poor control31310C108900Insulin dependent diabetes maturity onset63017C108911Type I diabetes mellitus maturity onset97446C108912Type 1 diabetes mellitus maturity onset56448C108A00Insulin-dependent diabetes without complication | 60499 | C108600 | Insulin dependent diabetes mellitus with gangrene | |
| 41049C108712Type 1 diabetes mellitus with retinopathy6791C108800Insulin dependent diabetes mellitus - poor control46850C108811Type I diabetes mellitus - poor control45914C108812Type 1 diabetes mellitus - poor control31310C108900Insulin dependent diabetes maturity onset63017C108911Type I diabetes mellitus maturity onset97446C108912Type 1 diabetes mellitus maturity onset56448C108A00Insulin-dependent diabetes without complication | 6509 | C108700 | Insulin dependent diabetes mellitus with retinopathy | |
| 6791C108800Insulin dependent diabetes mellitus - poor control46850C108811Type I diabetes mellitus - poor control45914C108812Type 1 diabetes mellitus - poor control31310C108900Insulin dependent diabetes maturity onset63017C108911Type I diabetes mellitus maturity onset97446C108912Type 1 diabetes mellitus maturity onset56448C108A00Insulin-dependent diabetes without complication | 38161 | C108711 | Type I diabetes mellitus with retinopathy | |
| 46850C108811Type I diabetes mellitus - poor control45914C108812Type 1 diabetes mellitus - poor control31310C108900Insulin dependent diabetes maturity onset63017C108911Type I diabetes mellitus maturity onset97446C108912Type 1 diabetes mellitus maturity onset56448C108A00Insulin-dependent diabetes without complication | 41049 | C108712 | Type 1 diabetes mellitus with retinopathy | |
| 45914C108812Type 1 diabetes mellitus - poor control31310C108900Insulin dependent diabetes maturity onset63017C108911Type I diabetes mellitus maturity onset97446C108912Type 1 diabetes mellitus maturity onset56448C108A00Insulin-dependent diabetes without complication | 6791 | C108800 | Insulin dependent diabetes mellitus - poor control | |
| 31310C108900Insulin dependent diabetes maturity onset63017C108911Type I diabetes mellitus maturity onset97446C108912Type 1 diabetes mellitus maturity onset56448C108A00Insulin-dependent diabetes without complication | 46850 | C108811 | Type I diabetes mellitus - poor control | |
| 63017C108911Type I diabetes mellitus maturity onset97446C108912Type 1 diabetes mellitus maturity onset56448C108A00Insulin-dependent diabetes without complication | 45914 | C108812 | Type 1 diabetes mellitus - poor control | |
| 97446C108912Type 1 diabetes mellitus maturity onset56448C108A00Insulin-dependent diabetes without complication | 31310 | C108900 | Insulin dependent diabetes maturity onset | |
| 56448 C108A00 Insulin-dependent diabetes without complication | 63017 | C108911 | Type I diabetes mellitus maturity onset | |
| | 97446 | C108912 | Type 1 diabetes mellitus maturity onset | |
| 95992 C108A11 Type I diabetes mellitus without complication | 56448 | C108A00 | Insulin-dependent diabetes without complication | |
| | 95992 | C108A11 | Type I diabetes mellitus without complication | |

| Medcode | Read Code | Description |
|---------|-----------|--|
| 111106 | C108A12 | Type 1 diabetes mellitus without complication |
| 24694 | C108B00 | Insulin dependent diabetes mellitus with mononeuropathy |
| 99231 | C108B11 | Type I diabetes mellitus with mononeuropathy |
| 41716 | C108C00 | Insulin dependent diabetes mellitus with polyneuropathy |
| 57621 | C108D00 | Insulin dependent diabetes mellitus with nephropathy |
| 66872 | C108D11 | Type I diabetes mellitus with nephropathy |
| 44440 | C108E00 | Insulin dependent diabetes mellitus with hypoglycaemic coma |
| 42729 | C108E11 | Type I diabetes mellitus with hypoglycaemic coma |
| 70766 | C108E12 | Type 1 diabetes mellitus with hypoglycaemic coma |
| 44260 | C108F00 | Insulin dependent diabetes mellitus with diabetic cataract |
| 17545 | C108F11 | Type I diabetes mellitus with diabetic cataract |
| 110400 | C108F12 | Type 1 diabetes mellitus with diabetic cataract |
| 64446 | C108G00 | Insulin dependent diab mell with peripheral angiopathy |
| 65616 | C108H00 | Insulin dependent diabetes mellitus with arthropathy |
| 62352 | C108H11 | Type I diabetes mellitus with arthropathy |
| 39809 | C108J00 | Insulin dependent diab mell with neuropathic arthropathy |
| 60208 | C108J11 | Type I diabetes mellitus with neuropathic arthropathy |
| 18230 | C108J12 | Type 1 diabetes mellitus with neuropathic arthropathy |
| 64449 | C108z00 | Unspecified diabetes mellitus with multiple complications |
| 17859 | C109.12 | Type 2 diabetes mellitus |
| 18219 | C109.13 | Type II diabetes mellitus |
| 52303 | C109000 | Non-insulin-dependent diabetes mellitus with renal comps |
| 50225 | C109011 | Type II diabetes mellitus with renal complications |
| 50429 | C109100 | Non-insulin-dependent diabetes mellitus with ophthalm comps |
| 59725 | C109111 | Type II diabetes mellitus with ophthalmic complications |
| 70316 | C109112 | Type 2 diabetes mellitus with ophthalmic complications |
| 55842 | C109200 | Non-insulin-dependent diabetes mellitus with neuro comps |
| 67905 | C109211 | Type II diabetes mellitus with neurological complications |
| 45919 | C109212 | Type 2 diabetes mellitus with neurological complications |
| 62146 | C109300 | Non-insulin-dependent diabetes mellitus with multiple comps |
| 108005 | C109312 | Type 2 diabetes mellitus with multiple complications |
| 34912 | C109400 | Non-insulin dependent diabetes mellitus with ulcer |
| 55075 | C109411 | Type II diabetes mellitus with ulcer |
| 65704 | C109412 | Type 2 diabetes mellitus with ulcer |
| 40401 | C109500 | Non-insulin dependent diabetes mellitus with gangrene |
| 62107 | C109511 | Type II diabetes mellitus with gangrene |
| 46150 | C109512 | Type 2 diabetes mellitus with gangrene |
| 58604 | C109611 | Type II diabetes mellitus with retinopathy |
| 42762 | C109612 | Type 2 diabetes mellitus with retinopathy |
| 8403 | C109700 | Non-insulin dependent diabetes mellitus - poor control |
| 24458 | C109711 | Type II diabetes mellitus - poor control |
| 45913 | C109712 | Type 2 diabetes mellitus - poor control |
| 29979 | C109900 | Non-insulin-dependent diabetes mellitus without complication |
| 109103 | C109911 | Type II diabetes mellitus without complication |
| 105784 | C109912 | Type 2 diabetes mellitus without complication |
| 72320 | C109A00 | Non-insulin dependent diabetes mellitus with mononeuropathy |
| 50813 | C109A11 | Type II diabetes mellitus with mononeuropathy |

| Medcode | Read Code | Description | |
|---------|-----------|--|--|
| 45467 | C109B00 | Non-insulin dependent diabetes mellitus with polyneuropathy | |
| 47409 | C109B11 | Type II diabetes mellitus with polyneuropathy | |
| 109865 | C109B12 | Type 2 diabetes mellitus with polyneuropathy | |
| 59365 | C109C00 | Non-insulin dependent diabetes mellitus with nephropathy | |
| 64571 | C109C11 | Type II diabetes mellitus with nephropathy | |
| 24836 | C109C12 | Type 2 diabetes mellitus with nephropathy | |
| 43785 | C109D00 | Non-insulin dependent diabetes mellitus with hypoglyca coma | |
| 56268 | C109D11 | Type II diabetes mellitus with hypoglycaemic coma | |
| 61071 | C109D12 | Type 2 diabetes mellitus with hypoglycaemic coma | |
| 69278 | C109E00 | Non-insulin depend diabetes mellitus with diabetic cataract | |
| 48192 | C109E11 | Type II diabetes mellitus with diabetic cataract | |
| 44779 | C109E12 | Type 2 diabetes mellitus with diabetic cataract | |
| 54212 | C109F00 | Non-insulin-dependent d m with peripheral angiopath | |
| 54899 | C109F11 | Type II diabetes mellitus with peripheral angiopathy | |
| 60699 | C109F12 | Type 2 diabetes mellitus with peripheral angiopathy | |
| 24693 | C109G00 | Non-insulin dependent diabetes mellitus with arthropathy | |
| 18143 | C109G11 | Type II diabetes mellitus with arthropathy | |
| 49869 | C109G12 | Type 2 diabetes mellitus with arthropathy | |
| 40962 | C109H00 | Non-insulin dependent d m with neuropathic arthropathy | |
| 47816 | C109H11 | Type II diabetes mellitus with neuropathic arthropathy | |
| 66965 | C109H12 | Type 2 diabetes mellitus with neuropathic arthropathy | |
| 18278 | C109J00 | Insulin treated Type 2 diabetes mellitus | |
| 37648 | C109J11 | Insulin treated non-insulin dependent diabetes mellitus | |
| 43453 | C10C.00 | Diabetes mellitus autosomal dominant | |
| 46624 | C10C.11 | Maturity onset diabetes in youth | |
| 98392 | C10C.12 | Maturity onset diabetes in youth type 1 | |
| 36695 | C10D.00 | Diabetes mellitus autosomal dominant type 2 | |
| 59991 | C10D.11 | Maturity onset diabetes in youth type 2 | |
| 1549 | C10E.00 | Type 1 diabetes mellitus | |
| 51261 | C10E.12 | Insulin dependent diabetes mellitus | |
| 47582 | C10E000 | Type 1 diabetes mellitus with renal complications | |
| 109837 | C10E011 | Type I diabetes mellitus with renal complications | |
| 102946 | C10E012 | Insulin-dependent diabetes mellitus with renal complications | |
| 47649 | C10E100 | Type 1 diabetes mellitus with ophthalmic complications | |
| 99311 | C10E111 | Type I diabetes mellitus with ophthalmic complications | |
| 98071 | C10E112 | Insulin-dependent diabetes mellitus with ophthalmic comps | |
| 42831 | C10E200 | Type 1 diabetes mellitus with neurological complications | |
| 101735 | C10E212 | Insulin-dependent diabetes mellitus with neurological comps | |
| 47650 | C10E300 | Type 1 diabetes mellitus with multiple complications | |
| 91942 | C10E311 | Type I diabetes mellitus with multiple complications | |
| 45276 | C10E312 | Insulin dependent diabetes mellitus with multiple complicat | |
| 93878 | C10E511 | Type I diabetes mellitus with ulcer | |
| 98704 | C10E512 | Insulin dependent diabetes mellitus with ulcer | |
| 69993 | C10E600 | Type 1 diabetes mellitus with gangrene | |
| 102112 | C10E611 | Type I diabetes mellitus with gangrene | |
| 109051 | C10E612 | Insulin dependent diabetes mellitus with gangrene | |
| 18387 | C10E700 | Type 1 diabetes mellitus with retinopathy | |

| Medcode | Read Code | Description |
|---------|-----------|---|
| 95343 | C10E711 | Type I diabetes mellitus with retinopathy |
| 93875 | C10E712 | Insulin dependent diabetes mellitus with retinopathy |
| 35288 | C10E800 | Type 1 diabetes mellitus - poor control |
| 105337 | C10E811 | Type I diabetes mellitus - poor control |
| 72702 | C10E812 | Insulin dependent diabetes mellitus - poor control |
| 40682 | C10E900 | Type 1 diabetes mellitus maturity onset |
| 96235 | C10E911 | Type I diabetes mellitus maturity onset |
| 97849 | C10E912 | Insulin dependent diabetes maturity onset |
| 69676 | C10EA00 | Type 1 diabetes mellitus without complication |
| 62613 | C10EA11 | Type I diabetes mellitus without complication |
| 99719 | C10EA12 | Insulin-dependent diabetes without complication |
| 68105 | C10EB00 | Type 1 diabetes mellitus with mononeuropathy |
| 46301 | C10EC00 | Type 1 diabetes mellitus with polyneuropathy |
| 91943 | C10EC11 | Type I diabetes mellitus with polyneuropathy |
| 101311 | C10EC12 | Insulin dependent diabetes mellitus with polyneuropathy |
| 10418 | C10ED00 | Type 1 diabetes mellitus with nephropathy |
| 102163 | C10ED12 | Insulin dependent diabetes mellitus with nephropathy |
| 39070 | C10EE00 | Type 1 diabetes mellitus with hypoglycaemic coma |
| 99716 | C10EE12 | Insulin dependent diabetes mellitus with hypoglycaemic coma |
| 49554 | C10EF00 | Type 1 diabetes mellitus with diabetic cataract |
| 100770 | C10EF12 | Insulin dependent diabetes mellitus with diabetic cataract |
| 93468 | C10EG00 | Type 1 diabetes mellitus with peripheral angiopathy |
| 18642 | C10EH00 | Type 1 diabetes mellitus with arthropathy |
| 54008 | C10EJ00 | Type 1 diabetes mellitus with neuropathic arthropathy |
| 30323 | C10EK00 | Type 1 diabetes mellitus with persistent proteinuria |
| 30294 | C10EL00 | Type 1 diabetes mellitus with persistent microalbuminuria |
| 102620 | C10EL11 | Type I diabetes mellitus with persistent microalbuminuria |
| 10692 | C10EM00 | Type 1 diabetes mellitus with ketoacidosis |
| 62209 | C10EM11 | Type I diabetes mellitus with ketoacidosis |
| 40837 | C10EN00 | Type 1 diabetes mellitus with ketoacidotic coma |
| 66145 | C10EN11 | Type I diabetes mellitus with ketoacidotic coma |
| 22871 | C10EP00 | Type 1 diabetes mellitus with exudative maculopathy |
| 97894 | C10EP11 | Type I diabetes mellitus with exudative maculopathy |
| 55239 | C10EQ00 | Type 1 diabetes mellitus with gastroparesis |
| 108724 | C10EQ11 | Type I diabetes mellitus with gastroparesis |
| 758 | C10F.00 | Type 2 diabetes mellitus |
| 22884 | C10F.11 | Type II diabetes mellitus |
| 18777 | C10F000 | Type 2 diabetes mellitus with renal complications |
| 57278 | C10F011 | Type II diabetes mellitus with renal complications |
| 47321 | C10F100 | Type 2 diabetes mellitus with ophthalmic complications |
| 100964 | C10F111 | Type II diabetes mellitus with ophthalmic complications |
| 34268 | C10F200 | Type 2 diabetes mellitus with neurological complications |
| 98616 | C10F211 | Type II diabetes mellitus with neurological complications |
| 65267 | C10F300 | Type 2 diabetes mellitus with multiple complications |
| 43227 | C10F311 | Type II diabetes mellitus with multiple complications |
| 49074 | C10F400 | Type 2 diabetes mellitus with ulcer |
| 91646 | C10F411 | Type II diabetes mellitus with ulcer |

| Medcode | Read Code | Description | |
|---------|-----------|---|-----|
| 12736 | C10F500 | Type 2 diabetes mellitus with gangrene | |
| 104323 | C10F511 | Type II diabetes mellitus with gangrene | |
| 18496 | C10F600 | Type 2 diabetes mellitus with retinopathy | |
| 49655 | C10F611 | Type II diabetes mellitus with retinopathy | |
| 25627 | C10F700 | Type 2 diabetes mellitus - poor control | |
| 47315 | C10F711 | Type II diabetes mellitus - poor control | |
| 39481 | C10F811 | Metabolic syndrome X | |
| 47954 | C10F900 | Type 2 diabetes mellitus without complication | |
| 53392 | C10F911 | Type II diabetes mellitus without complication | |
| 62674 | C10FA00 | Type 2 diabetes mellitus with mononeuropathy | |
| 95351 | C10FA11 | Type II diabetes mellitus with mononeuropathy | |
| 18425 | C10FB00 | Type 2 diabetes mellitus with polyneuropathy | |
| 50527 | C10FB11 | Type II diabetes mellitus with polyneuropathy | |
| 12640 | C10FC00 | Type 2 diabetes mellitus with nephropathy | |
| 102201 | C10FC11 | Type II diabetes mellitus with nephropathy | |
| 46917 | C10FD00 | Type 2 diabetes mellitus with hypoglycaemic coma | |
| 98723 | C10FD11 | Type II diabetes mellitus with hypoglycaemic coma | |
| 44982 | C10FE00 | Type 2 diabetes mellitus with diabetic cataract | |
| 93727 | C10FE11 | Type II diabetes mellitus with diabetic cataract | |
| 37806 | C10FF00 | Type 2 diabetes mellitus with peripheral angiopathy | |
| 104639 | C10FF11 | Type II diabetes mellitus with peripheral angiopathy | |
| 59253 | C10FG00 | Type 2 diabetes mellitus with arthropathy | |
| 103902 | C10FG11 | Type II diabetes mellitus with arthropathy | |
| 35385 | C10FH00 | Type 2 diabetes mellitus with neuropathic arthropathy | |
| 109197 | C10FH11 | Type II diabetes mellitus with neuropathic arthropathy | |
| 1407 | C10FJ00 | Insulin treated Type 2 diabetes mellitus | |
| 64668 | C10FJ11 | Insulin treated Type II diabetes mellitus | |
| 26054 | C10FL00 | Type 2 diabetes mellitus with persistent proteinuria | |
| 60796 | C10FL11 | Type II diabetes mellitus with persistent proteinuria | |
| 18390 | C10FM00 | Type 2 diabetes mellitus with persistent microalbuminuria | |
| 32627 | C10FN00 | Type 2 diabetes mellitus with ketoacidosis | |
| 106528 | C10FN11 | Type II diabetes mellitus with ketoacidosis | |
| 51756 | C10FP00 | Type 2 diabetes mellitus with ketoacidotic coma | |
| 106061 | C10FP11 | Type II diabetes mellitus with ketoacidotic coma | |
| 25591 | C10FQ00 | Type 2 diabetes mellitus with exudative maculopathy | |
| 111798 | C10FQ11 | Type II diabetes mellitus with exudative maculopathy | |
| 63690 | C10FR00 | Type 2 diabetes mellitus with gastroparesis | |
| 51697 | C10G.00 | Secondary pancreatic diabetes mellitus | |
| 96506 | C10G000 | Secondary pancreatic diabetes mellitus without complication | |
| 61122 | C10H.00 | Diabetes mellitus induced by non-steroid drugs | |
| 37957 | C10K.00 | Type A insulin resistance | |
| 56885 | С10К000 | Type A insulin resistance without complication | |
| 43857 | C10M.00 | Lipoatrophic diabetes mellitus | |
| 22487 | C10N.00 | Secondary diabetes mellitus | |
| 94383 | C10N000 | Secondary diabetes mellitus without complication | |
| 108360 | C10P000 | Type I diabetes mellitus in remission | |
| 109628 | C10P011 | Type 1 diabetes mellitus in remission | 295 |

| Medcode | Read Code | Description |
|---------|-----------|--|
| 107824 | C10P100 | Type II diabetes mellitus in remission |
| 110611 | C10P111 | Type 2 diabetes mellitus in remission |
| 33343 | C10y.00 | Diabetes mellitus with other specified manifestation |
| 110997 | C10y000 | Diabetes mellitus, juvenile, + other specified manifestation |
| 70821 | C10yz00 | Diabetes mellitus NOS with other specified manifestation |
| 45491 | C10z.00 | Diabetes mellitus with unspecified complication |
| 68792 | C10z000 | Diabetes mellitus, juvenile type, + unspecified complication |
| 64357 | C10zz00 | Diabetes mellitus NOS with unspecified complication |
| 61520 | C110000 | latrogenic hyperinsulinism |
| 27304 | C111.00 | Other hyperinsulinism |
| 50491 | C111z00 | Other hyperinsulinism NOS |
| 23355 | C115.11 | Zollinger - Ellison syndrome |
| 16433 | C1200 | Parathyroid gland disorders |
| 3559 | C120.00 | Hyperparathyroidism |
| 18740 | C120000 | Primary hyperparathyroidism |
| 73934 | C120100 | Hyperparathyroid bone disease |
| 15096 | C121.00 | Hypoparathyroidism |
| 61859 | C121000 | Autoimmune parathyroiditis |
| 25379 | C121200 | Idiopathic hypoparathyroidism |
| 63512 | C121z00 | Hypoparathyroidism NOS |
| 64789 | C12z.00 | Parathyroid disorder NOS |
| 22732 | C1311 | Hypothalamus disorders |
| 5316 | C130200 | Acromegaly |
| 23560 | C131.00 | Other anterior pituitary hyperfunction |
| 6732 | C131000 | Hyperprolactinaemia |
| 5026 | C132.00 | Panhypopituitarism |
| 8552 | C132.11 | Hypopituitarism NOS |
| 48590 | C132000 | Idiopathic panhypopituitarism |
| 33653 | C132z00 | Panhypopituitarism NOS |
| 20287 | C133.00 | Pituitary dwarfism |
| 105861 | C133.12 | Hypophyseal dwarfism |
| 61409 | C133z00 | Pituitary dwarfism NOS |
| 52426 | C134000 | Prolactin deficiency |
| 16004 | C134011 | Hypoprolactinaemia |
| 11146 | C134300 | TSH - thyroid-stimulating hormone deficiency |
| 11147 | C134411 | ACTH deficiency |
| 15488 | C134z00 | Other anterior pituitary disorder NOS |
| 43908 | C134z11 | Anterior pituitary hormone deficiency NEC |
| 1045 | C135.00 | Diabetes insipidus |
| 60046 | C135.12 | Diabetes insipidus - pituitary |
| 56983 | C137.00 | latrogenic pituitary disorders |
| 50958 | C137.11 | latrogenic hypopituitarism |
| 44881 | C137100 | Post-hypophysectomy hypopituitarism |
| 34459 | C137z00 | latrogenic pituitary disorder NOS |
| 98210 | C139.00 | Hypogonadotropic hypogonadism |
| 36881 | C13X.00 | Hypothalamic dysfunction, not elsewhere classified |
| 44186 | C13y.00 | Other pituitary disorders + diencephalohypophyseal syndromes |
| 296 | | |

| 69820C13y400Other diencephalic syndrome12449C13z.00Pituitary disorders NOS130325C142.00Thymus disease NOS20275C150000Idiopathic Cushing's syndrome20275C150000Hutary dependent Cushing's syndrome20275C151.00Hyperaldosteronism2275C151.12Bartter's syndrome20278C151.12Bartter's syndrome2028C151000Primary hyperaldosteronism2028C151000Primary hyperaldosteronism2028C151000Primary hyperaldosteronism2028C151000Sartter's syndrome2028C151000Acquired adrenogenital syndrome68567C152000Congenital adrenogenital syndrome69764C152000Congenital anydrome with salt loss69765C152100Acquired adrenogenital syndrome69766C152801Adrenogenital syndrome with salt loss69766C152811Adrenogenital anydrome NOS29849C152800Other adrenogenital syndrome with salt loss69764C152801Adrenogenital disorder NOS20876C152811Adrenogenital anydrome NOS20876C152813Congenital adrenal hypertrophy NEC20871C152814Precocious puberty with adrenal hyperglasia208721C152800Adrenogenital isorder NOS208422C153.10Adrenogenital insufficiency20843C154001Addisonia crisis20844C154012Adrenol rusproduction20 | Medcode | Read Code | Description | |
|---|---------|-----------|--|--|
| 12449 C132.00 Pituitary disorders NOS 103025 C142.00 Thymus disease NOS 20967 C150000 Idiopathic Cushing's syndrome 33682 C150100 Iatrogenic Cushing's syndrome 33275 C151000 Pituitary dependent Cushing's syndrome 32275 C151.11 Aldosteronism 32078 C151.12 Bartter's syndrome 29028 C151000 Primary hyperaldosteronism 29028 C151000 Secondary hyperaldosteronism 37119 C151000 Secondary hyperaldosteronism 29028 C152000 Acquired adrenogenital syndrome 68567 C151000 Acquired adrenogenital syndrome 69734 C152000 Other adrenogenital syndrome with salt loss 69744 C152800 Other adrenogenital syndrome with salt loss 69745 C152811 Adrenogenital syndrome NOS 31446 C152811 Adrenogenital disorder NOS 36785 C152812 Precocious puberty with adrenotortical disorder 79360 C152912 Precocious puberty with adrenoto | | | • | |
| 103025C142.00Thymus disease NOS70967C150000Idiopathic Cushing's syndrome20275C150100Iatrogenic Cushing's syndrome32862C150200Pituitary dependent Cushing's syndrome32275C151.00Hyperaldosteronism32286C151.11Aldosteronism32082C151.00Primary hyperaldosteronism37119C151100Secondary hyperaldosteronism37119C151100Secondary hyperaldosteronism37119C151000Primary hyperaldosteronism40288C151200Bartter's syndrome68567C152000Congenital adrenogenital syndrome69916C152000Acquired adrenogenital syndrome69916C152000Other adrenogenital syndrome with salt loss69764C152800Other adrenogenital syndrome NOS31464C152811Adrenogenital syndrome NOS31731C152812Precocious puberty with adrenocortical disorder73860C152813Congenital adrenal gland hypertrophy NEC3133C15200Adrenocortical hyperfunction3134C153.00Other corticoadrenal overactivity43641C153.11Adrenocortical hyperfunction3134C154.00Corticoadrenal insufficiency4042C154.00Addisonian crisis2134C154.00Addisonian crisis2134C154.00Addisonian crisis2134C154.00Addisonian crisis2134C154.00Addisonian crisis2134C154 | | | | |
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| 43641C153.11ACTH overproduction32642C153.12Adrenocortical hyperfunction3113C154.00Corticoadrenal insufficiency4042C154011Addisonian crisis42873C154012Adrenal crisis4481C154100Addison's disease21594C154300Hypoaldosteronism12227C154600Addisonian crisis108019C154700Hyporeninaemic hypoaldosteronism12396C154200Corticoadrenal insufficiency NOS28896C154211Adrenal hypofunction20786C154212Adrenal insufficiency NEC73529C155000Adrenal medullary insufficiency33400C156.00Medulloadrenal hyperfunction31340C163.11Ovarian hypogonadism31274C163200Hypergonadotrophic ovarian failure22836C163300Ovarian hypogonadism31474C164.13Multicystic ovaries9577C172.12Testicular hypofunct- defect adrenocortical hormone synthesis | 57321 | C152z00 | Adrenogenital disorder NOS | |
| 32642C153.12Adrenocortical hyperfunction3113C154.00Corticoadrenal insufficiency4042C154011Addisonian crisis42873C154012Adrenal crisis42874C15400Addison's disease21594C15400Addisonian crisis12227C15400Addisonian crisis108019C154700Hypoaldosteronism12396C154200Corticoadrenal insufficiency NOS28896C154211Adrenal hypofunction20786C154212Adrenal medullary insufficiency73529C155000Adrenal medullary insufficiency3400C156.00Medulloadrenal hypofunction31274C163200Ovarian hypogonadism31274C163200Ovarian hypogonadism31274C163300Ovarian hypogonadism30041C164.13Multicystic ovaries9577C172.12Testicular hypofunc- defect adrenocortical hormone synthesis | 44962 | C153.00 | | |
| 3113C154.00Corticoadrenal insufficiency4042C154011Addisonian crisis42873C154012Adrenal crisis4481C154100Addison's disease21594C154300Hypoaldosteronism12227C154600Addisonian crisis108019C154700Hyporeninaemic hypoaldosteronism12396C154200Corticoadrenal insufficiency NOS28896C154211Adrenal hypofunction20786C154212Adrenal medullary insufficiency73529C155000Adrenal medullary insufficiency54838C155200Other adrenal hypofunction NOS33400C156.00Medulloadrenal hyperfunction41542C152.00Adrenal gland disorder NOS23802C163.11Ovarian hypogonadism31274C163200Hypergonadotrophic ovarian failure22836C164.12Stein - Leventhal syndrome30041C164.13Multicystic ovaries9577C172.12Testicular hypofunc- defect adrenocortical hormone synthesis | 43641 | C153.11 | ACTH overproduction | |
| 4042C154011Addisonian crisis42873C154012Adrenal crisis4481C154100Addison's disease21594C154300Hypoaldosteronism12227C154600Addisonian crisis108019C154700Hyporeninaemic hypoaldosteronism12396C154200Corticoadrenal insufficiency NOS28896C154211Adrenal hypofunction20786C154212Adrenal medullary insufficiency73529C155000Adrenal medullary insufficiency54838C155200Other adrenal hypofunction41542C152.00Adrenal gland disorder NOS23802C163.11Ovarian hypogonadism31274C163200Hypergonadotrophic ovarian failure22836C163300Ovarian hypogonadism16103C164.12Stein - Leventhal syndrome30041C164.13Multicystic ovaries9577C172.12Testicular hypofunc- defect adrenocortical hormone synthesis | 32642 | C153.12 | Adrenocortical hyperfunction | |
| 42873C154012Adrenal crisis4481C154100Addison's disease21594C154300Hypoaldosteronism12227C154600Addisonian crisis108019C154700Hyporeninaemic hypoaldosteronism12396C154z00Corticoadrenal insufficiency NOS28896C154z11Adrenal hypofunction20786C154z12Adrenal medullary insufficiency73529C155000Adrenal medullary insufficiency54838C155z00Other adrenal hypofunction NOS33400C156.00Medulloadrenal hyperfunction41542C152.00Adrenal gland disorder NOS23802C163.11Ovarian hypogonadism31274C163200Hypergonadotrophic ovarian failure22836C164.12Stein - Leventhal syndrome30041C164.13Multicystic ovaries9577C172.12Testicular hypofunc- defect adrenocortical hormone synthesis | 3113 | C154.00 | Corticoadrenal insufficiency | |
| 4481C154100Addison's disease21594C154300Hypoaldosteronism12227C154600Addisonian crisis108019C154700Hyporeninaemic hypoaldosteronism12396C154200Corticoadrenal insufficiency NOS28896C154z11Adrenal hypofunction20786C154z12Adrenal insufficiency NEC73529C155000Adrenal medullary insufficiency54838C155z00Other adrenal hypofunction NOS33400C156.00Medulloadrenal hyperfunction41542C152.00Adrenal gland disorder NOS23802C163.11Ovarian hypogonadism31274C163200Hypergonadotrophic ovarian failure22836C163.00Ovarian hypogonadism16103C164.12Stein - Leventhal syndrome30041C164.13Multicystic ovaries9577C172.12Testicular hypogunadism63528C172000Testicular hypofunc- defect adrenocortical hormone synthesis | 4042 | C154011 | Addisonian crisis | |
| 21594C154300Hypoaldosteronism12227C154600Addisonian crisis108019C154700Hyporeninaemic hypoaldosteronism12396C154200Corticoadrenal insufficiency NOS28896C154211Adrenal hypofunction20786C154212Adrenal insufficiency NEC73529C155000Adrenal medullary insufficiency54838C155200Other adrenal hypofunction NOS33400C156.00Medulloadrenal hyperfunction41542C152.00Adrenal gland disorder NOS23802C163.11Ovarian hypogonadism31274C163200Hypergonadotrophic ovarian failure22836C164.12Stein - Leventhal syndrome30041C164.13Multicystic ovaries9577C172.12Testicular hypofunc- defect adrenocortical hormone synthesis | 42873 | C154012 | Adrenal crisis | |
| 12227C154600Addisonian crisis108019C154700Hyporeninaemic hypoaldosteronism12396C154z00Corticoadrenal insufficiency NOS28896C154z11Adrenal hypofunction20786C154z12Adrenal insufficiency NEC73529C155000Adrenal medullary insufficiency54838C155z00Other adrenal hypofunction NOS33400C156.00Medulloadrenal hyperfunction41542C15z.00Adrenal gland disorder NOS23802C163.11Ovarian hypogonadism31274C163200Hypergonadotrophic ovarian failure22836C164.12Stein - Leventhal syndrome30041C164.13Multicystic ovaries9577C172.12Testicular hypofunc- defect adrenocortical hormone synthesis | 4481 | C154100 | Addison's disease | |
| 108019C154700Hyporeninaemic hypoaldosteronism12396C154z00Corticoadrenal insufficiency NOS28896C154z11Adrenal hypofunction20786C154z12Adrenal insufficiency NEC73529C155000Adrenal medullary insufficiency54838C155z00Other adrenal hypofunction NOS33400C156.00Medulloadrenal hyperfunction41542C15z.00Adrenal gland disorder NOS23802C163.11Ovarian hypogonadism31274C163200Hypergonadotrophic ovarian failure22836C163300Ovarian hypogonadism16103C164.12Stein - Leventhal syndrome30041C164.13Multicystic ovaries9577C172.12Testicular hypofunc- defect adrenocortical hormone synthesis | 21594 | C154300 | Hypoaldosteronism | |
| 12396C154z00Corticoadrenal insufficiency NOS28896C154z11Adrenal hypofunction20786C154z12Adrenal insufficiency NEC73529C155000Adrenal medullary insufficiency54838C155z00Other adrenal hypofunction NOS33400C156.00Medulloadrenal hyperfunction41542C15z.00Adrenal gland disorder NOS23802C163.11Ovarian hypogonadism31274C163200Hypergonadotrophic ovarian failure22836C163300Ovarian hypogonadism16103C164.12Stein - Leventhal syndrome30041C164.13Multicystic ovaries9577C172.12Testicular hypogonadism63528C172000Testicular hypofunc- defect adrenocortical hormone synthesis | 12227 | C154600 | Addisonian crisis | |
| 28896C154z11Adrenal hypofunction20786C154z12Adrenal insufficiency NEC73529C155000Adrenal medullary insufficiency54838C155z00Other adrenal hypofunction NOS33400C156.00Medulloadrenal hyperfunction41542C15z.00Adrenal gland disorder NOS23802C163.11Ovarian hypogonadism31274C163200Hypergonadotrophic ovarian failure22836C163300Ovarian hypogonadism16103C164.12Stein - Leventhal syndrome30041C164.13Multicystic ovaries9577C172.12Testicular hypogonadism63528C172000Testicular hypofunc- defect adrenocortical hormone synthesis | 108019 | C154700 | Hyporeninaemic hypoaldosteronism | |
| 20786C154z12Adrenal insufficiency NEC73529C155000Adrenal medullary insufficiency54838C155z00Other adrenal hypofunction NOS33400C156.00Medulloadrenal hyperfunction41542C15z.00Adrenal gland disorder NOS23802C163.11Ovarian hypogonadism31274C163200Hypergonadotrophic ovarian failure22836C163300Ovarian hypogonadism16103C164.12Stein - Leventhal syndrome30041C164.13Multicystic ovaries9577C172.12Testicular hypogunadism63528C172000Testicular hypofunc- defect adrenocortical hormone synthesis | 12396 | C154z00 | Corticoadrenal insufficiency NOS | |
| 73529C155000Adrenal medullary insufficiency54838C155z00Other adrenal hypofunction NOS33400C156.00Medulloadrenal hyperfunction41542C15z.00Adrenal gland disorder NOS23802C163.11Ovarian hypogonadism31274C163200Hypergonadotrophic ovarian failure22836C163300Ovarian hypogonadism16103C164.12Stein - Leventhal syndrome30041C164.13Multicystic ovaries9577C172.12Testicular hypogonadism63528C172000Testicular hypofunc- defect adrenocortical hormone synthesis | 28896 | C154z11 | Adrenal hypofunction | |
| 54838C155z00Other adrenal hypofunction NOS33400C156.00Medulloadrenal hyperfunction41542C15z.00Adrenal gland disorder NOS23802C163.11Ovarian hypogonadism31274C163200Hypergonadotrophic ovarian failure22836C163300Ovarian hypogonadism16103C164.12Stein - Leventhal syndrome30041C164.13Multicystic ovaries9577C172.12Testicular hypogonadism63528C172000Testicular hypofunc- defect adrenocortical hormone synthesis | 20786 | C154z12 | Adrenal insufficiency NEC | |
| 33400C156.00Medulloadrenal hyperfunction41542C15z.00Adrenal gland disorder NOS23802C163.11Ovarian hypogonadism31274C163200Hypergonadotrophic ovarian failure22836C163300Ovarian hypogonadism16103C164.12Stein - Leventhal syndrome30041C164.13Multicystic ovaries9577C172.12Testicular hypogonadism63528C172000Testicular hypofunc- defect adrenocortical hormone synthesis | 73529 | C155000 | Adrenal medullary insufficiency | |
| 41542C15z.00Adrenal gland disorder NOS23802C163.11Ovarian hypogonadism31274C163200Hypergonadotrophic ovarian failure22836C163300Ovarian hypogonadism16103C164.12Stein - Leventhal syndrome30041C164.13Multicystic ovaries9577C172.12Testicular hypogonadism63528C172000Testicular hypofunc- defect adrenocortical hormone synthesis | 54838 | C155z00 | Other adrenal hypofunction NOS | |
| 23802C163.11Ovarian hypogonadism31274C163200Hypergonadotrophic ovarian failure22836C163300Ovarian hypogonadism16103C164.12Stein - Leventhal syndrome30041C164.13Multicystic ovaries9577C172.12Testicular hypogonadism63528C172000Testicular hypofunc- defect adrenocortical hormone synthesis | 33400 | C156.00 | Medulloadrenal hyperfunction | |
| 31274C163200Hypergonadotrophic ovarian failure22836C163300Ovarian hypogonadism16103C164.12Stein - Leventhal syndrome30041C164.13Multicystic ovaries9577C172.12Testicular hypogonadism63528C172000Testicular hypofunc- defect adrenocortical hormone synthesis | 41542 | C15z.00 | Adrenal gland disorder NOS | |
| 22836C163300Ovarian hypogonadism16103C164.12Stein - Leventhal syndrome30041C164.13Multicystic ovaries9577C172.12Testicular hypogonadism63528C172000Testicular hypofunc- defect adrenocortical hormone synthesis | 23802 | C163.11 | Ovarian hypogonadism | |
| 16103C164.12Stein - Leventhal syndrome30041C164.13Multicystic ovaries9577C172.12Testicular hypogonadism63528C172000Testicular hypofunc- defect adrenocortical hormone synthesis | 31274 | C163200 | Hypergonadotrophic ovarian failure | |
| 30041C164.13Multicystic ovaries9577C172.12Testicular hypogonadism63528C172000Testicular hypofunc- defect adrenocortical hormone synthesis | 22836 | C163300 | Ovarian hypogonadism | |
| 9577C172.12Testicular hypogonadism63528C172000Testicular hypofunc- defect adrenocortical hormone synthesis | 16103 | C164.12 | Stein - Leventhal syndrome | |
| 63528 C172000 Testicular hypofunc- defect adrenocortical hormone synthesis | 30041 | C164.13 | Multicystic ovaries | |
| | 9577 | C172.12 | Testicular hypogonadism | |
| 21876 C172111 Kallman's syndrome | 63528 | C172000 | Testicular hypofunc- defect adrenocortical hormone synthesis | |
| | 21876 | C172111 | Kallman's syndrome | |

| 39898C18.00Polyglandular dysfunction and related disorders66490C180.11Wermer's syndrome48130C181.12Schmidt's syndrome52843C182.00Autoimmune polyglandular failure92901C183.00Polyglandular dysfunction NOS12724C1A0.00Metabolic syndrome15995C121.11Precocious puberty3031C121000Precocious puberty25424C121011Precocious puberty25424C121011Precocious pubarche22704C121111Precocious thelarche34706C124.00Dwarfism NEC65402C124100Constitutional dwarfism66781C124200Dwarfism NEC NOS49161C125.11Androgen insensitivity syndrome68146C12y000Pineal gland dysfunction36314C12y211Sotos syndrome57803C201.00Marasmic kwashiorkor5007C24.00Vitamin A deficiency50073C240.00Vitamin A deficiency with conjunctival xerosis31479C241.00Vitamin A deficiency with sepot and conjunctival61766C242.00Vitamin A deficiency with sepot halmic corneal49266C247000Vitamin A deficiency with xerophthalmia45889C24y.00Vitamin A deficiency with sepot halmia45889C24y.00Vitamin A deficiency with conput halmia45889C24y.00Vitamin A deficiency with corneal xerosis60199C246.00Vitamin A deficiency with xerophthalmia< | |
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| 52843C182.00Autoimmune polyglandular failure92901C183.00Polyglandular hyperfunction47995C182.00Polyglandular dysfunction NOS12724C1A0.00Metabolic syndrome15995C1z1.11Precocious puberty3031C1z1000Precocious puberty25424C1z1011Precocious pubarche22704C1z1111Precocious thelarche34706C1z4.00Dwarfism NEC65402C1z4100Constitutional dwarfism66781C1z4200Dwarfism NEC NOS49161C1z5.11Androgen insensitivity syndrome68146C1zy000Pineal gland dysfunction36314C1zy211Sotos syndrome57803C1zy400Werner's syndrome57877C20.00Kwashiorkor5007C24.00Vitamin A deficiency50073C240.00Vitamin A deficiency with conjunctival xerosis31479C241.00Vitamin A deficiency with corneal xerosis102237C244.00Vitamin A deficiency with keratomalacia66943C245.00Vitamin A deficiency with xerophthalmic corneal49266C247000Vitamin A deficiency with xerophthalmia45889C24y.00Vitamin A deficiency with xerophthalmia4567C2511Vitamin B1 deficiency | |
| 92901C183.00Polyglandular hyperfunction47995C182.00Polyglandular dysfunction NOS12724C1A0.00Metabolic syndrome15995C121.11Precocious puberty3031C1z1000Precocious puberty25424C1z1011Precocious pubarche22704C1z1111Precocious thelarche34706C1z4.00Dwarfism NEC65402C1z4100Constitutional dwarfism66781C1z4200Dwarfism NEC NOS49161C1z5.11Androgen insensitivity syndrome68146C1zy000Pineal gland dysfunction36314C1zy11Sotos syndrome57803C1zy400Werner's syndrome57803C201.00Marasmic kwashiorkor5007C2400Vitamin A deficiency50073C240.00Vitamin A deficiency with conjunctival xerosis31479C241.00Vitamin A deficiency with keratomalacia66943C245.00Vitamin A deficiency with keratomalacia66943C245.00Vitamin A deficiency with xerophthalmic corneal49266C247000Vitamin A deficiency with xerophthalmia45889C24y.00Vitamin A deficiency with xerophthalmia45889C24y.00Vitamin A deficiency with xeroderma4667C2511Vitamin B1 deficiency | |
| 47995C18z.00Polyglandular dysfunction NOS12724C1A0.00Metabolic syndrome15995C1z1.11Precocious puberty3031C1z1000Precocious puberty25424C1z1011Precocious pubarche22704C1z1111Precocious thelarche34706C1z4.00Dwarfism NEC65402C1z4100Constitutional dwarfism66781C1z4200Dwarfism NEC NOS49161C1z5.11Androgen insensitivity syndrome68146C1zy000Pineal gland dysfunction36314C1zy11Sotos syndrome57803C1zy400Werner's syndrome35893C201.00Marasmic kwashiorkor5007C2400Vitamin A deficiency50073C240.00Vitamin A deficiency with conjunctival xerosis112237C244.00Vitamin A deficiency with corneal xerosis102237C244.00Vitamin A deficiency with corneal xerosis60199C246.00Vitamin A deficiency with night blindness60199C245.00Vitamin A deficiency with xerophthalmic corneal49270C249.00Vitamin A deficiency with xerophthalmia45889C249.00Vitamin A deficiency with xerophthalmia4567C2511Vitamin B1 deficiency | |
| 12724C1A0.00Metabolic syndrome15995C1z1.11Precocious puberty3031C1z1000Precocious puberty25424C1z1011Precocious pubarche22704C1z1111Precocious thelarche34706C1z4.00Dwarfism NEC65402C1z4100Constitutional dwarfism66781C1z4200Dwarfism NEC NOS49161C1z5.11Androgen insensitivity syndrome68146C1zy000Pineal gland dysfunction36314C1zy211Sotos syndrome57803C1zy400Werner's syndrome35737C2000Kwashiorkor307C2400Vitamin A deficiency5007C2400Vitamin A deficiency with conjunctival xerosis31479C241.00Vitamin A deficiency with corneal xerosis102237C244.00Vitamin A deficiency with corneal xerosis60199C245.00Vitamin A deficiency with xerophthalmic corneal49266C247000Vitamin A deficiency with xerophthalmia45889C24y.00Vitamin A deficiency with xerophthalmia4667C2511Vitamin A deficiency with xeroderma | |
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| 34706C1z4.00Dwarfism NEC65402C1z4100Constitutional dwarfism66781C1z4z00Dwarfism NEC NOS49161C1z5.11Androgen insensitivity syndrome68146C1zy000Pineal gland dysfunction36314C1zy211Sotos syndrome57803C1zy400Werner's syndrome35737C2000Kwashiorkor35893C201.00Marasmic kwashiorkor5007C2400Vitamin A deficiency50073C240.00Vitamin A deficiency with conjunctival xerosis31479C241.00Vitamin A deficiency with corneal xerosis102237C244.00Vitamin A deficiency with corneal xerosis60199C246.00Vitamin A deficiency with keratomalacia66943C245.00Vitamin A deficiency with xerophthalmic corneal49266C247000Vitamin A deficiency with xerophthalmia45889C24y.00Vitamin A deficiency with corneal xerosis60199C246.00Vitamin A deficiency with xerophthalmia4567C2511Vitamin A deficiency with xeroderma | |
| 65402C1z4100Constitutional dwarfism66781C1z4z00Dwarfism NEC NOS49161C1z5.11Androgen insensitivity syndrome68146C1zy000Pineal gland dysfunction36314C1zy211Sotos syndrome57803C1zy400Werner's syndrome35737C2000Kwashiorkor35893C201.00Marasmic kwashiorkor5007C2400Vitamin A deficiency50073C240.00Vitamin A deficiency with conjunctival xerosis31479C241.00Vitamin A deficiency with corneal xerosis102237C244.00Vitamin A deficiency with corneal xerosis66943C245.00Vitamin A deficiency with keratomalacia66943C246.00Vitamin A deficiency with xerophthalmic corneal49266C247000Vitamin A deficiency with xerophthalmia4589C24y.00Vitamin A deficiency with xerophthalmia4667C2511Vitamin B1 deficiency | |
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| 49161C1z5.11Androgen insensitivity syndrome68146C1zy000Pineal gland dysfunction36314C1zy211Sotos syndrome57803C1zy400Werner's syndrome35737C2000Kwashiorkor35893C201.00Marasmic kwashiorkor5007C2400Vitamin A deficiency50073C240.00Vitamin A deficiency with conjunctival xerosis31479C241.00Vitamin A deficiency with corneal xerosis102237C244.00Vitamin A deficiency with corneal xerosis60199C246.00Vitamin A deficiency with night blindness60199C246.00Vitamin A deficiency with xerophthalmic corneal49266C247000Vitamin A deficiency with xerophthalmia45889C24y.00Vitamin A deficiency with other manifestation49270C24y100Vitamin A deficiency with xeroderma4667C2511Vitamin B1 deficiency | |
| 68146C1zy000Pineal gland dysfunction36314C1zy211Sotos syndrome57803C1zy400Werner's syndrome35737C2000Kwashiorkor35893C201.00Marasmic kwashiorkor5007C2400Vitamin A deficiency50073C240.00Vitamin A deficiency with conjunctival xerosis31479C241.00Vitamin A deficiency with conjunctival xerosis102237C242.00Vitamin A deficiency with corneal xerosis102237C244.00Vitamin A deficiency with keratomalacia66943C245.00Vitamin A deficiency with keratomalacia60199C246.00Vitamin A deficiency with xerophthalmic corneal49266C247000Vitamin A deficiency with xerophthalmia45889C24y.00Vitamin A deficiency with other manifestation49270C24y100Vitamin A deficiency with xeroderma4667C2511Vitamin B1 deficiency | |
| 36314C1zy211Sotos syndrome57803C1zy400Werner's syndrome35737C2000Kwashiorkor35893C201.00Marasmic kwashiorkor5007C2400Vitamin A deficiency50073C240.00Vitamin A deficiency with conjunctival xerosis31479C241.00Vitamin A deficiency with conjunctival xerosis102237C242.00Vitamin A deficiency with corneal xerosis102237C244.00Vitamin A deficiency with keratomalacia66943C245.00Vitamin A deficiency with night blindness60199C246.00Vitamin A deficiency with xerophthalmic corneal49266C247000Vitamin A deficiency with xerophthalmia45889C24y.00Vitamin A deficiency with xerophthalmia4667C2511Vitamin B1 deficiency | |
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| 49270C24y100Vitamin A deficiency with xeroderma4667C2511Vitamin B1 deficiency | |
| 4667 C2511 Vitamin B1 deficiency | |
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| 31444 C252.00 Pellagra | |
| | |
| 45946 C2600 Vitamin B-complex deficiency | |
| 33375 C260.11 Riboflavin deficiency | |
| 24059 C260.12 Vitamin B2 deficiency | |
| 48023 C261.00 Vitamin B6 deficiency syndrome | |
| 43354 C261.11 Vitamin B6 deficiency | |
| 42792 C26z.00 Vitamin B deficiency NOS | |
| 37282 C2712 Vitamin C deficiency | |
| 10450 C2811 Osteomalacia | |
| 5074 C2812 Rickets | |
| 37350 C282.00 Osteomalacia unspecified | |
| 105896 C28A.00 Vitamin D-dependent rickets | |
| 51679 C291000 Vitamin E deficiency | |
| 100830 C291100 Vitamin P deficiency | |
| 47068 C294.00 Trace element deficiency | |
| 25194 C294200 Copper deficiency | |

| 30100 C294400 Magnesium deficiency 106409 C28.00 Vitamin D insufficiency 27435 C300100 Cystinaemia 23311 C300200 Cystine storage disease 23515 C300400 Hartnup disease 24717 C300400 Hartnup disease 107206 C300600 Acquired Fanconi syndrome 46357 C300200 Amino-acid transport disorder NOS 4318 C301.00 Phenylketonuria 3355 C302300 Tyrosinosis 63807 C302400 Hyrosinuria 47758 C302500 Lowe disease 5377 C302500 Lowe disease 3188 C302710 Albino 6181 C302700 Hypertyrosinaemia 3184 C302712 Albino 6181 C302300 Hypertyrolinaemia 3185 C30400 Hypertyrolinaemia 3186 C302700 Histidinaemia 51918 C30500 Histidinaemia 51918 | Medcode | Read Code | Description |
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| 55198C305200Histidinuria10166C307000Hyperglycinaemia48144C307400Hyperlysinaemia22111C309.00Glutaryl CoA dehydrogenase deficiency66720C30y000Alaninaemia30533C30y400Hyperprolinaemia57552C30yy11Adenosine-deaminase deficiency31383C310.00Glycogenosis - glycogen storage disease24186C310.13Glycogen storage disease49317C310000McArdle's disease5955C310211Von Gierke's disease5951C310212Glucose-6-phosphatase deficiency31944C310412Andersen's disease5561C311.00Galactosaemia20730C311000Galactosaemia20730C31100Galactosaemia NOS31384C312.00Hereditary fructose intolerance57431C313011Malabsorption of glucose - galactose37854C313111Lactose malabsorption30404C31200Sucrose-isomaltose intolerance37854C313111Lactose malabsorption36042C313200Sucrose-isomaltose intolerance3805C313511Malabsorption of glucose | | | |
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| 48144C307400Hyperlysinaemia22111C309.00Glutaryl CoA dehydrogenase deficiency66720C30y000Alaninaemia30533C30y400Hyperprolinaemia57552C30yy11Adenosine-deaminase deficiency31383C310.00Glycogenosis - glycogen storage disease24186C310.13Glycogen storage disease49317C310000McArdle's disease65925C310211Von Gierke's disease21934C310212Glucose-6-phosphatase deficiency31944C310412Andersen's disease5561C311.00Galactosaemia20730C311000Galactose-1-phosphate uridyl transferase deficiency65371C311100Galactosemia NOS31384C312.00Hereditary fructose intolerance57431C313011Malabsorption of glucose - galactose37854C313111Lactose malabsorption36042C313200Sucrose-isomaltose intolerance38805C313511Malabsorption of glucose | | | |
| 22111C309.00Glutaryl CoA dehydrogenase deficiency66720C30y000Alaninaemia30533C30y400Hyperprolinaemia57552C30yy11Adenosine-deaminase deficiency31383C310.00Glycogenosis - glycogen storage disease24186C310.13Glycogen storage disease49317C310000McArdle's disease65925C310211Von Gierke's disease21934C310212Glucose-6-phosphatase deficiency31944C310412Andersen's disease5561C311.00Galactosaemia20730C311000Galactosaemia20730C311000Galactosaemia NOS31384C312.00Hereditary fructose intolerance57431C313011Malabsorption of glucose - galactose37854C313200Sucrose-isomaltose intolerance38805C313511Malabsorption of glucose | | | |
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| 31383C310.00Glycogenosis - glycogen storage disease24186C310.13Glycogen storage disease49317C310000McArdle's disease65925C310211Von Gierke's disease21934C310212Glucose-6-phosphatase deficiency31944C310412Andersen's disease5561C311.00Galactosaemia20730C311000Galactose-1-phosphate uridyl transferase deficiency65371C311100Galactosaemia NOS31384C312.00Hereditary fructose intolerance57431C313011Malabsorption of glucose - galactose37854C313200Sucrose-isomaltose intolerance38805C313511Malabsorption of glucose | | | |
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| 49317C310000McArdle's disease65925C310211Von Gierke's disease21934C310212Glucose-6-phosphatase deficiency31944C310412Andersen's disease5561C311.00Galactosaemia20730C311000Galactose-1-phosphate uridyl transferase deficiency65371C311100Galactosiaemia NOS64321C312.00Hereditary fructose intolerance57431C313011Malabsorption of glucose - galactose37854C313111Lactose malabsorption36042C313511Malabsorption of glucose | 31383 | | |
| 65925C310211Von Gierke's disease21934C310212Glucose-6-phosphatase deficiency31944C310412Andersen's disease5561C311.00Galactosaemia20730C311000Galactose-1-phosphate uridyl transferase deficiency65371C311100Galactokinase deficiency64321C311200Galactosaemia NOS31384C312.00Hereditary fructose intolerance57431C313011Malabsorption of glucose - galactose37854C313200Sucrose-isomaltose intolerance38805C313511Malabsorption of glucose | | | |
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| 5561C311.00Galactosaemia20730C311000Galactose-1-phosphate uridyl transferase deficiency65371C311100Galactokinase deficiency64321C311z00Galactosaemia NOS31384C312.00Hereditary fructose intolerance57431C313011Malabsorption of glucose - galactose37854C313111Lactose malabsorption36042C313200Sucrose-isomaltose intolerance38805C313511Malabsorption of glucose | | | |
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| 65371C311100Galactokinase deficiency64321C311z00Galactosaemia NOS31384C312.00Hereditary fructose intolerance57431C313011Malabsorption of glucose - galactose37854C313111Lactose malabsorption36042C313200Sucrose-isomaltose intolerance38805C313511Malabsorption of glucose | 5561 | C311.00 | |
| 64321C311z00Galactosaemia NOS31384C312.00Hereditary fructose intolerance57431C313011Malabsorption of glucose - galactose37854C313111Lactose malabsorption36042C313200Sucrose-isomaltose intolerance38805C313511Malabsorption of glucose | 20730 | C311000 | Galactose-1-phosphate uridyl transferase deficiency |
| 31384C312.00Hereditary fructose intolerance57431C313011Malabsorption of glucose - galactose37854C313111Lactose malabsorption36042C313200Sucrose-isomaltose intolerance38805C313511Malabsorption of glucose | 65371 | C311100 | Galactokinase deficiency |
| 57431C313011Malabsorption of glucose - galactose37854C313111Lactose malabsorption36042C313200Sucrose-isomaltose intolerance38805C313511Malabsorption of glucose | 64321 | C311z00 | Galactosaemia NOS |
| 37854C313111Lactose malabsorption36042C313200Sucrose-isomaltose intolerance38805C313511Malabsorption of glucose | 31384 | C312.00 | Hereditary fructose intolerance |
| 36042C313200Sucrose-isomaltose intolerance38805C313511Malabsorption of glucose | 57431 | C313011 | Malabsorption of glucose - galactose |
| 38805 C313511 Malabsorption of glucose | 37854 | C313111 | Lactose malabsorption |
| | 36042 | C313200 | Sucrose-isomaltose intolerance |
| 42815 C313700 Disaccharidase deficiency | 38805 | C313511 | Malabsorption of glucose |
| | 42815 | C313700 | Disaccharidase deficiency |

| Medcode | Read Code | Description |
|---------|-----------|---|
| 92869 | C313911 | Malabsorption of disaccharide NEC |
| 66577 | C31y300 | Mannosidosis |
| 65382 | C31yX00 | Disorder of glycoprotein metabolism, unspecified |
| 3484 | C320.11 | Familial hypercholesterolaemia |
| 3386 | C320000 | Familial hypercholesterolaemia |
| 102958 | C320600 | Polygenic hypercholesterolaemia |
| 637 | C324.00 | Hyperlipidaemia NOS |
| 56796 | C326z00 | Lipodystrophy NOS |
| 35717 | C327.12 | Fabry's disease |
| 109868 | C327300 | Wolman disease |
| 71522 | C327400 | Alpha-galactosidase A deficiency |
| 24161 | C327411 | Fabry's disease |
| 93886 | C327412 | Anderson's disease |
| 24660 | C327413 | Anderson-Fabry disease |
| 107252 | C329.00 | Hypercholesterolaemia |
| 57509 | C330000 | Waldenstrom's hypergammaglobulinaemic purpura |
| 12386 | C332z00 | Paraproteinaemia NOS |
| 16527 | C333.00 | Macroglobulinaemia |
| 10411 | C333000 | Waldenstrom's macroglobulinaemia |
| 108235 | C333011 | Waldenstrom macroglobulinaemia |
| 71994 | C333z00 | Macroglobulinaemia NOS |
| 5073 | C33y000 | Hypoproteinaemia |
| 2983 | C350000 | Haemochromatosis |
| 29966 | C350300 | Idiopathic pulmonary haemosiderosis |
| 3870 | C351011 | Wilson's disease |
| 26371 | C352000 | Hypermagnesaemia |
| 33347 | C353000 | Hypophosphatasia |
| 22028 | C353100 | Hypophosphatasia rickets |
| 33586 | C353200 | Vitamin-D-resistant rickets |
| 21870 | C353211 | Hypophosphataemic rickets |
| 7902 | C353300 | Hypophosphataemia |
| 9423 | C353400 | Hyperphosphataemia |
| 105061 | C353500 | Acquired hypophosphataemia |
| 106860 | C353600 | Renal failure-associated hyperphosphataemia |
| 107983 | C353700 | X-linked hypophosphataemic rickets |
| 106346 | C353800 | Autosomal dominant hypophosphataemic rickets |
| 70714 | C354111 | Secondary hypercalcaemia |
| 23540 | C354300 | Pseudohypoparathyroidism |
| 60587 | C354311 | Pseudopseudohypoparathyroidism |
| 60113 | C362300 | Lactic acidaemia |
| 23337 | C371000 | Congenital porphyria |
| 65126 | C371600 | Pseudoporphyria |
| 43743 | C371z00 | Porphyria NOS |
| 68482 | C372000 | Hypoxanthine-guanine-phosphoribosyltransferase deficiency |
| 68112 | C373600 | Nephropathic amyloidosis |
| 53970 | C373700 | Primary amyloidosis NEC |
| 107595 | C373H00 | Amyloid A amyloidosis |
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| 46738 C374000 Crigler - Najjar syndrome 39293 C374100 Dubin - Johnson syndrome 46507 C374300 Rotor syndrome 46507 C375130 Rotor syndrome 36244 C375.14 Lipochondrodystrophy 55775 C375.17 Osteochondrodystrophy 107648 C375000 Manosidosis 58375 C375111 Moreles's syndrome 52880 C375400 Disorder of glucosaminoglycan metabolism, unspecified 52881 C376100 Alpha-1-antitrypsin hepatitis 3019 C376200 Alpha-1-antitrypsin deficiency 46749 C377111 Pseudo - Hurler's disease 2310 C37y600 Histiocytosis X, unspecified 37126 C37y600 Histiocytosis S, unspecified 3714 C37y600 Histiocytosis Cell histiocytosis 11631 C37400 Hypervitaminosis A 27344 C37y600 Hypervitaminosis A 2141 C37y600 Hypervitaminosis A 2143 C384.00 Hyckwickian syndrome <th>Medcode</th> <th>Read Code</th> <th>Description</th> <th></th> | Medcode | Read Code | Description | |
|--|---------|-----------|--|--|
| 39293 C374100 Dubin - Johnson syndrome 46507 C374300 Rotor syndrome 34624 C375.14 Lipochondrodystrophy 5775 C375.17 Osteochondrodystrophy 107648 C375000 Mannosidosis 63937 C375113 Schele's syndrome 5284 C375111 Marquio - Brailsford syndrome 52080 C375000 Disorder of glucosaminoglycan metabolism, unspecified 52080 C376100 Alpha-1-antitrypsin hepatitis 63191 C376200 Alpha-1-antitrypsin deficiency 46749 C37111 Pseudo - Hurler's disease 62310 C371000 Histiocytosis X, unspecified 51718 C379000 Haemophagocytic lymphohistocytosis 51714 C379000 Langerhans' cell histocytosis 27934 C379000 Langerhans' cell histocytosis 11631 C371.1 Marinesco-Sjogren syndrome 64905 C382.00 Hypervitaminosis A 21343 C38400 Hypervitaminosis A 21343 C389000 | | | · | |
| 44507 C374300 Rotor syndrome 34624 C375.14 Lipochondrodystrophy 55775 C375.17 Osteochondrodystrophy 107648 C375000 Mannosidosis 69375 C375113 Schele's syndrome 52854 C375411 Morquio - Brailsford syndrome 52800 C375000 Alpha-1-antitrypsin hepatitis 3019 C376200 Alpha-1-antitrypsin hepatitis 3019 C376200 Alpha-1-antitrypsin hepatitis 62310 C377101 Pseudo - Hurler's disease 62310 C374000 Trypsinogen deficiency 51718 C37y000 Histiocytosis X, chronic 36736 C37y000 Histocytosis X, unspecified 51714 C37y800 Haemophagocytic syndrome, infection-associated 40000 C37y800 Haemophagocytic syndrome 64905 C382.00 Hypervitaminosis A 32143 C384.00 Hypervitaminosis A 32143 C384.00 Hypervitaminosis A 32143 C384.00 Hypervitaminosis A | | C374100 | | |
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| 107648C375000Mannosidosis69375C375113Scheie's syndrome58584C375411Morquio - Brailsford syndrome52880C375010Disorder of glucosaminoglycan metabolism, unspecified5288C376100Alpha-1-antitrypsin hepatitis3019C376200Alpha-1-antitrypsin hepatitis6210C377111Pseudo - Hunter's disease62310C377111Pseudo - Hunter's disease62310C377900Histiocytosis X, chronic36736C379600Histiocytosis X, unspecified37126C379700Histiocytosis X, unspecified37241C379000Haemophagocytic lymphohistiocytosis27934C379000Haemophagocytic syndrome, infection-associated40000C379000Langerhans' cell histiocytosis11631C372.11Marinesco-Sjogren syndrome64905C382.00Hypervitaminosis A32143C384.00Hypervitaminosis A32143C38000Pickwickian syndrome35682C39011Agarmaglobulinaemia15137C39000Selective IgA immunodeficiency37161C39000Selective IgA immunodeficiency37161C39000Selective IgA immunodeficiency37162C39000Congenital X-linked agammaglobulinaemia69373C39000Selective IgA immunodeficiency3717C39000Selective IgA immunodeficiency3718C390700Congenital X-linked agammaglobulinaemia69373C390000Selective IgA immunodefic | | | | |
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| 58584C375411Morquio - Brailsford syndrome62281C375510Disorder of glucosaminoglycan metabolism, unspecified52080C375X00Alpha-1-antitrypsin hepatitis3019C376200Alpha-1-antitrypsin hepatitis3019C376200Alpha-1-antitrypsin deficiency46749C377111Pseudo - Hurler's disease62310C37y500Histiocytosis X, chronic36736C37y600Histiocytosis X, unspecified37126C37y700Histiocytosis X, unspecified37126C37y800Haemophagocytic lymphohistiocytosis27934C37y800Haemophagocytic syndrome, infection-associated40000C37y800Langerhans' cell histiocytosis11631C37.11Marinesco-Sjogren syndrome64905C382.00Hypervitaminosis D24755C38y.11Pickwickian syndrome35682C39.011Agammaglobulinaemia15137C39000Pickwickian syndrome35682C390.01Selective IgA immunodeficiency18700C390300Selective IgA immunodeficiency18711C390500Congenital hypogammaglobulinaemia60332C390501Common variable immunodeficiency51728C39000Agammaglobulinaemia617322C390700Common variable immunodeficiency51723C39000Selective IgA immunodeficiency62340C390501Comgenital X-linked agammaglobulinaemia51722C39000Agammaglobulinaemia62332C39000Common | | | | |
| 62281C375611Maroteaux - Lamy syndrome52080C375X00Disorder of glucosaminoglycan metabolism, unspecified2589C376100Alpha-1-antitrypsin hepatitis3019C376200Alpha-1-antitrypsin hepatitis3019C376200Alpha-1-antitrypsin hepatitis62310C377111Pseudo - Hurler's disease62310C377300Trypsinogen deficiency51718C37y500Histiocytosis X, chronic36736C37y600Histiocytosis, unspecified51714C37y700Histiocytosis, unspecified27934C37y900Haemophagocytic lymphohistiocytosis27934C37y900Haemophagocytic syndrome, infection-associated40000C37y800Langerhans' cell histocytosis21131C372.11Marinesco-Sjogren syndrome64905C382.00Hypervitaminosis A32143C384.00Hypervitaminosis A32143C384.00Hypervitaminosis A32143C38000Pickwickian syndrome35682C390110Selective IgA immunodeficiency15171C390300Selective IgA immunodeficiency15173C390500Congenital hypogammaglobulinaemia60810C390512Congenital hypogammaglobulinaemia6373C390600Immunodeficiency57161C390500Comgenital hypogammaglobulinaemia63732C39000Agammaglobulinaemia NEC50656C391000Predominantity T-cell immuno-deficiency62326C392.00Combined immunity defic | | | · | |
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| 3019C376200Alpha-1-antitrypsin deficiency46749C377111Pseudo - Hurler's disease62310C37y100Trypsinogen deficiency51718C37y500Histiocytosis X, unspecified36736C37y600Histiocytosis X, unspecified51718C37y700Histiocytosis, unspecified51714C37y800Haemophagocytic lymphohistiocytosis27934C37y900Haemophagocytic syndrome, infection-associated40000C37y800Langerhans' cell histiocytosis27934C372.11Marinesco-Sjogren syndrome64905C382.00Hypervitaminosis A21435C384.00Hypervitaminosis D24755C389.11Pickwickian syndrome35682C390.10Selective IgA immunodeficiency3574C390000Selective IgA immunodeficiency18700C390200Selective IgA immunodeficiency18701C390500Congenital N-linked agammaglobulinaemia60853C390100Selective IgA immunodeficiency57161C390500Congenital N-linked agammaglobulinaemia67332C390700Agammaglobulinaemia NCC50665C39100Predominantly T-cell immunodeficiency6236C392.00Adenosine deaminase deficiency62378C39000Agammaglobulinaemia NEC50665C39100Predominantly T-cell immunodeficiency6238C392.00Combined immunity deficiency72804C392.00Adenosine deaminase deficency72804C392.00Ad | | | | |
| 46749C377111Pseudo - Hurler's disease62310C37y300Trypsinogen deficiency51718C37y500Histiocytosis X, unspecified36736C37y600Histiocytosis X, unspecified37126C37y700Histiocytosis, unspecified37127C37y800Haemophagocytic lymphohistiocytosis27934C37y900Haemophagocytic syndrome, infection-associated40000C37y800Langerhans' cell histiocytosis1631C37z.11Marinesco-Sjogren syndrome64905C382.00Hypervitaminosis A2143C384.00Hypervitaminosis A32143C384.00Pickwickian syndrome38294C389000Pickwickian syndrome38294C39000Hypegarmaglobulinaemia15137C390000Hypegarmaglobulinaemia15137C390000Selective IgM immunodeficiency18701C390200Selective IgM immunodeficiency18702C390500Congenital hypogammaglobulinaemia60830C390512Congenital hypogammaglobulinaemia61932C39000Agammaglobulinaemia NEC50655C391000Predominantly T-cell immuno-deficiency NOS31322C391200Agammaglobulinaemia NEC50655C391200Combined immunity deficiency NOS31322C392000Agammaglobulinaemia NEC50655C391200Adenosine deaminase deficiency52386C392000Adenosine deaminase deficiency52386C392000Adenosine deaminase deficiency< | | | | |
| 62310C37y300Trypsinogen deficiency51718C37y500Histiocytosis X , chronic36736C37y600Histiocytosis X , unspecified37126C37y700Histiocytosis , unspecified51041C37y800Haemophagocytic lymphohistiocytosis27934C37y900Langerhans' cell histiocytosis27934C37y800Langerhans' cell histiocytosis1631C37.11Marinesco-Sjogren syndrome64905C382.00Hypervitaminosis A32143C384.00Hypervitaminosis D24755C38y.11Pickwickian syndrome35682C390.11Agammaglobulinaemia15137C39000Hypogammaglobulinaemia15137C39000Selective IgA immunodeficiency18701C390500Congenital Hypogammaglobulinaemia60880C390512Congenital Hypogammaglobulinaemia67322C390700Common variable immunodeficiency62588C390100Selective IgG immunodeficiency62588C390500Agammaglobulinaemia67322C390700Common variable immunodeficiency NOS31322C391000Agammaglobulinaemia NEC50665C391000Predominantly T-cell immuno-deficiency NOS31322C392.00Combined immunity deficiency NOS23424C392.00Combined immunity deficiency NOS2343C392.00Combined immunity deficiency NOS2344C392.00Combined immunity deficiency NOS2345C392.00Combined immunity deficiency NOS | | | | |
| 51718C37y500Histiocytosis X, chronic36736C37y600Histiocytosis X, unspecified37126C37y700Histiocytosis, unspecified51041C37y800Haemophagocytic lymphohistiocytosis27934C37y900Haemophagocytic syndrome, infection-associated40000C37yB00Langerhans' cell histiocytosis11631C372.11Marinesco-Sjogren syndrome64905C382.00Hypervitaminosis A32143C384.00Hypervitaminosis D24755C38y.11Pickwickian syndrome38294C38y000Pickwickian syndrome35682C390.11Agammaglobulinaemia15137C390000Hypegammaglobulinaemia NOS8548C390100Selective IgA immunodeficiency18701C390200Selective IgG immunodeficiency57161C390500Congenital hypogammaglobulinaemia69880C390512Congenital N-linked agammaglobulinaemia6973C390000Agammaglobulinaemia NEC50665C391000Predominantiy T-cell immunodeficiency NOS31322C390700Common variable immunodeficiency NOS31322C391200Combinent Immunodeficiency NOS2332C39200Combinent Immunodeficiency NOS2342C39200Combinent Immunodeficiency NOS2352C39200Combinent Immunodeficiency NOS2352C39200Combinent Immunodeficiency NOS2352C39200Combinent Immunodeficiency NOS2352C39200Combinent Immunode | | | | |
| 36736C37y600Histiocytosis X, unspecified37126C37y700Histiocytosis, unspecified51041C37y800Haemophagocytic lymphohistiocytosis27934C37y900Haemophagocytic syndrome, infection-associated40000C37y800Langerhans' cell histiocytosis11631C37z.11Marinesco-Sjogren syndrome64905C382.00Hypervitaminosis A2143C384.00Hypervitaminosis D24755C38y.11Pickwickian syndrome35682C390.01Agammaglobulinaemia15137C390000Pickwickian syndrome35682C390.11Agammaglobulinaemia15137C390000Selective IgA immunodeficiency8548C390100Selective IgA immunodeficiency18701C390200Selective IgG immunodeficiency57161C390500Congenital Npogammaglobulinaemia60880C390512Congenital X-linked agammaglobulinaemia67322C390700Common variable immunodeficiency62586C390000Agammaglobulinaemia NEC50665C391000Predominantly T-cell immunodeficiency NOS31322C39200Adenosine deaminase deficiency72804C39200Combined immunity deficiency72804C39200Adenosine deaminase deficiency NOS24410C394.00Autoimmune disease NOS65517C395.00Immunodeficiency with short-limbed stature54203C397.00Hyperimmunoglobulin E syndrome64236C392.00Common va | | | | |
| 37126C37y700Histiocytosis, unspecified51041C37y800Haemophagocytic lymphohistiocytosis27934C37y900Haemophagocytic syndrome, infection-associated40000C37y800Langerhans' cell histiocytosis11631C37z.11Marinesco-Sjogren syndrome64905C382.00Hypervitaminosis A32143C384.00Hypervitaminosis D24755C38y.11Pickwickian syndrome35682C390.01Agammaglobulinaemia15137C39000Hypegammaglobulinaemia55137C39000Selective IgA immunodeficiency18701C390200Selective IgG immunodeficiency18700C390500Congenital hypogammaglobulinaemia60880C390512Congenital hypogammaglobulinaemia67322C390600Immunodeficiency57161C390500Congenital hypogammaglobulinaemia67322C390700Common variable immunodeficiency57322C390700Common variable immunodeficiency62598C390500Agammaglobulinaemia NEC50665C391000Predominantly T-cell immuno-deficiency NOS31322C392.00Combined immunity deficiency NOS31322C392.00Combined immunity deficiency NOS31323C392.00Combined immunity deficiency NOS31324C392.00Adenosine deaminase deficiency62538C392.00Adenosine deaminase deficiency62538C392.00Adenosine deaminase deficiency62532C392.00Aden | | , | | |
| 51041C37y800Haemophagocytic lymphohistiocytosis27934C37y900Haemophagocytic syndrome, infection-associated40000C37y800Langerhans' cell histiocytosis11631C37z.11Marinesco-Sjogren syndrome64905C382.00Hypervitaminosis A32143C38v.00Hypervitaminosis D24755C38y.11Pickwickian syndrome38294C38y000Pickwickian syndrome35682C390.11Agammaglobulinaemia15137C39000Hypogammaglobulinaemia NOS8548C390100Selective IgA immunodeficiency18701C390200Selective IgG immunodeficiency18700C390300Selective IgG immunodeficiency18701C390500Congenital hypogammaglobulinaemia60880C390512Congenital hypogammaglobulinaemia61933C390600Immunodeficiency with IgM hypergammaglobulinaemia62598C390900Agammaglobulinaemia NEC50655C391000Predominantly T-cell immuno-deficiency NOS31322C392.00Combined immunity deficiency72804C392.00Combined immunity deficiency NOS31322C392.00Combined immunity deficiency NOS26410C394.00Autoimmune disease NOS65517C395.00Immunodeficiency NOS26410C394.00Autoimmune disease NOS65657C398.00Common variable immunodeficiency72804C392.00Adenosine deaminase deficiency65538C395.00Immunode | | - | | |
| 40000C37yB00Langerhans' cell histiocytosis11631C37z.11Marinesco-Sjogren syndrome64905C382.00Hypervitaminosis A32143C384.00Hypervitaminosis D24755C38y.11Pickwickian syndrome38294C38y000Pickwickian syndrome35682C390.11Agammaglobulinaemia15137C390000Hypogammaglobulinaemia NOS8548C390100Selective IgA immunodeficiency85701C390200Selective IgA immunodeficiency18701C390300Selective IgG immunodeficiency18700C390300Selective IgG immunodeficiency60880C390512Congenital Nypogammaglobulinaemia60880C390512Congenital X-linked agammaglobulinaemia69373C390000Immunodeficiency with IgM hypergammaglobulinaemia69373C390000Agammaglobulinaemia NEC50665C391000Predominantly T-cell immuno-deficiency NOS31322C392.00Combined immunity deficiency6238C392.00Combined immunity deficiency6238C392.00Combined immunity deficiency62316C392.00Adenosine deaminase deficiency62326C392.00Lombined immunity deficiency NOS63410C394.00Autoimmune disease NOS65617C395.00Immunodeficiency with short-limbed stature54203C397.00Hyperimmunoglobulin E syndrome21975C398.00Common variable immunodeficiency66857C3982.00 <td< td=""><td>51041</td><td>-</td><td>Haemophagocytic lymphohistiocytosis</td><td></td></td<> | 51041 | - | Haemophagocytic lymphohistiocytosis | |
| 11631C37z.11Marinesco-Sjogren syndrome64905C382.00Hypervitaminosis A32143C384.00Hypervitaminosis D24755C38y.11Pickwickian syndrome38294C38y000Pickwickian syndrome35682C390.11Agammaglobulinaemia15137C390000Hypogammaglobulinaemia NOS8548C390100Selective IgA immunodeficiency18701C390200Selective IgG immunodeficiency18700C390300Selective IgG immunodeficiency18701C390500Congenital hypogammaglobulinaemia60880C390512Congenital hypogammaglobulinaemia6373C390600Immunodeficiency with IgM hypergammaglobulinaemia57322C390700Common variable immunodeficiency NOS13132C39000Agammaglobulinaemia NEC50665C391000Predominantly T-cell immuno-deficiency NOS13132C39200Combined immunity deficiency62538C39200Combined immunity deficiency72804C39200Combined immunity deficiency62538C39200Adenosine deaminase deficiency62538C39200Combined immunity deficiency72804C39200Adenosine deaminase deficiency62538C39200Combined immunity deficiency72804C39200Combined immunity deficiency62538C39200Combined immunity deficiency62541C392.00Immunodeficiency with short-limbed stature54203C397.00Hyperimmunogl | 27934 | C37y900 | Haemophagocytic syndrome, infection-associated | |
| 11631C37z.11Marinesco-Sjogren syndrome64905C382.00Hypervitaminosis A32143C384.00Hypervitaminosis D24755C38y.11Pickwickian syndrome38294C38y000Pickwickian syndrome35682C390.11Agammaglobulinaemia15137C390000Hypogammaglobulinaemia NOS8548C390100Selective IgA immunodeficiency18701C390200Selective IgG immunodeficiency18700C390300Selective IgG immunodeficiency18701C390500Congenital hypogammaglobulinaemia60880C390512Congenital hypogammaglobulinaemia6373C390600Immunodeficiency with IgM hypergammaglobulinaemia57322C390700Common variable immunodeficiency NOS13132C39000Agammaglobulinaemia NEC50665C391000Predominantly T-cell immuno-deficiency NOS13132C39200Combined immunity deficiency62538C39200Combined immunity deficiency72804C39200Combined immunity deficiency62538C39200Adenosine deaminase deficiency62538C39200Combined immunity deficiency72804C39200Adenosine deaminase deficiency62538C39200Combined immunity deficiency72804C39200Combined immunity deficiency62538C39200Combined immunity deficiency62541C392.00Immunodeficiency with short-limbed stature54203C397.00Hyperimmunogl | 40000 | C37yB00 | Langerhans' cell histiocytosis | |
| 32143C384.00Hypervitaminosis D24755C38y.11Pickwickian syndrome38294C38y000Pickwickian syndrome35682C390.11Agammaglobulinaemia15137C390000Hypogammaglobulinaemia NOS8548C390100Selective IgA immunodeficiency18701C390200Selective IgG immunodeficiency18700C390300Selective IgG immunodeficiency57161C390500Congenital hypogammaglobulinaemia60880C390512Congenital X-linked agammaglobulinaemia69373C390600Immunodeficiency with IgM hypergammaglobulinaemia57322C390700Common variable immunodeficiency NOS51322C391000Predominantly T-cell immuno-deficiency NOS51322C392.00Combined immunity deficiency62236C392.00Combined immunity deficiency62236C392.00Combined immunity deficiency62328C392.00Combined immunity deficiency NOS26410C394.00Autoimmune disease NOS65517C395.00Immunodeficiency with short-limbed stature54203C397.00Hyperimmunoglobulin E syndrome21975C398.00Common variable immunodeficiency66857C398200Common variable immunodeficiency69871C398200Common variable immunodeficiency39800C39X.00Immunodeficiency associated+major defect, unspecified | 11631 | | Marinesco-Sjogren syndrome | |
| 24755C38y.11Pickwickian syndrome38294C38y000Pickwickian syndrome35682C390.11Agammaglobulinaemia15137C390000Hypogammaglobulinaemia NOS8548C390100Selective IgA immunodeficiency18701C390200Selective IgM immunodeficiency18700C390300Selective IgG immunodeficiency57161C390500Congenital hypogammaglobulinaemia60880C390512Congenital X-linked agammaglobulinaemia69373C390600Immunodeficiency with IgM hypergammaglobulinaemia57322C390700Common variable immunodeficiency NOS51322C39000Agammaglobulinaemia NEC50665C391000Predominantly T-cell immuno-deficiency NOS31322C39200Combined immunity deficiency62236C392.00Combined immunity deficiency62328C39200Adenosine deaminase deficiency62328C392.00Combined immunity deficiency NOS26410C394.00Autoimmune disease NOS65517C395.00Immunodeficiency with short-limbed stature54203C397.00Hyperimmunoglobulin E syndrome21975C398.00Common variable immunodeficiency66857C398200Common variable immunodeficiency39800C39X.00Immunodeficiency associated+major defect, unspecified | 64905 | C382.00 | Hypervitaminosis A | |
| 38294C38y000Pickwickian syndrome35682C390.11Agammaglobulinaemia15137C390000Hypogammaglobulinaemia NOS8548C390100Selective IgA immunodeficiency18701C390200Selective IgG immunodeficiency18700C390300Selective IgG immunodeficiency57161C390500Congenital hypogammaglobulinaemia60880C390512Congenital X-linked agammaglobulinaemia69373C390600Immunodeficiency with IgM hypergammaglobulinaemia57322C390700Common variable immunodeficiency NOS31322C391000Predominantly T-cell immuno-deficiency NOS31322C391200Wiskott - Aldrich syndrome62236C39200Combined immunity deficiency62317C39200Combined immunity deficiency NOS26410C394.00Autoimmune disease NOS65617C395.00Immunodeficiency with short-limbed stature54203C397.00Hyperimmunoglobulin E syndrome21975C398.00Common variable immunodeficiency66857C392.00Combined immunity deficiency NOS26410C394.00Autoimmune disease NOS65617C395.00Immunodeficiency with short-limbed stature54203C397.00Hyperimmunoglobulin E syndrome21975C398.00Common variable immunodeficiency66857C398200Common variable immunodeficiency39800C39X.00Immunodeficiency associated+major defect, unspecified | 32143 | C384.00 | Hypervitaminosis D | |
| 35682C390.11Agammaglobulinaemia15137C390000Hypogammaglobulinaemia NOS8548C390100Selective IgA immunodeficiency18701C390200Selective IgG immunodeficiency18700C390300Selective IgG immunodeficiency57161C390500Congenital hypogammaglobulinaemia60880C390512Congenital X-linked agammaglobulinaemia69373C390600Immunodeficiency with IgM hypergammaglobulinaemia57322C390700Common variable immunodeficiency NOS31322C391000Predominantly T-cell immuno-deficiency NOS31322C391200Wiskott - Aldrich syndrome62236C39200Combined immunity deficiency NOS26410C394.00Adenosine deaminase deficiency NOS26410C394.00Autoimmune disease NOS65617C395.00Immunodeficiency with short-limbed stature54203C397.00Hyperimmunoglobulin E syndrome21975C398.00Common variable immunodeficiency66857C398200Common variable immunodeficiency66857C398200Common variable immunodeficiency66857C398200Common variable immunodeficiency66857C398200Common variable immunodeficiency66857C398200Common variable immunodeficiency66857C398200Common variable immunodeficiency39800C39X.00Immunodeficiency associated+major defect, unspecified | 24755 | C38y.11 | Pickwickian syndrome | |
| 15137C390000Hypogamaglobulinaemia NOS8548C390100Selective IgA immunodeficiency18701C390200Selective IgG immunodeficiency18700C390300Selective IgG immunodeficiency57161C390500Congenital hypogammaglobulinaemia60880C390512Congenital X-linked agammaglobulinaemia69373C390600Immunodeficiency with IgM hypergammaglobulinaemia57322C390700Common variable immunodeficiency62598C390900Agammaglobulinaemia NEC50665C391000Predominantly T-cell immuno-deficiency NOS31322C392000Combined immunity deficiency62236C392.00Combined immunity deficiency62328C392000Adenosine deaminase deficiency NOS6410C394.00Autoimmune disease NOS65617C395.00Immunodeficiency with short-limbed stature54203C397.00Hyperimmunoglobulin E syndrome21975C398.00Common variable immunodeficiency66857C398200Common variable immunodeficiency66857C398200Common variable immunodeficiency69850C397.00Hyperimmunoglobulin E syndrome21975C398200Common variable immunodeficiency69857C398200Common variable immunodeficiency69857C398200Common variable immunodeficiency39800C39X.00Immunodeficiency associated+major defect, unspecified | 38294 | C38y000 | Pickwickian syndrome | |
| 8548C390100Selective IgA immunodeficiency18701C390200Selective IgM immunodeficiency18700C390300Selective IgG immunodeficiency57161C390500Congenital hypogammaglobulinaemia60880C390512Congenital X-linked agammaglobulinaemia69373C390600Immunodeficiency with IgM hypergammaglobulinaemia57322C390700Common variable immunodeficiency62598C390900Agammaglobulinaemia NEC50665C391000Predominantly T-cell immuno-deficiency NOS31322C392000Combined immunity deficiency62236C392.00Combined immunity deficiency62328C392200Combined immunity deficiency NOS26410C394.00Autoimmune disease NOS65617C395.00Immunodeficiency with short-limbed stature54203C397.00Hyperimmunoglobulin E syndrome21975C398.00Common variable immunodeficiency66857C39200Mannose-binding lectin deficiency39800C39X.00Immunodeficiency associated+major defect, unspecified | 35682 | C390.11 | Agammaglobulinaemia | |
| 18701C390200Selective IgM immunodeficiency18700C390300Selective IgG immunodeficiency57161C390500Congenital hypogammaglobulinaemia60880C390512Congenital X-linked agammaglobulinaemia69373C390600Immunodeficiency with IgM hypergammaglobulinaemia57322C390700Common variable immunodeficiency62598C390900Agammaglobulinaemia NEC50665C391000Predominantly T-cell immuno-deficiency NOS31322C39200Combined immunity deficiency62236C392.00Combined immunity deficiency62328C39200Combined immunity deficiency NOS26410C394.00Autoimmune disease NOS65617C395.00Immunodeficiency with short-limbed stature54203C397.00Hyperimmunoglobulin E syndrome21975C398.00Common variable immunodeficiency66857C399000Mannose-binding lectin deficiency39800C39X.00Immunodeficiency associated+major defect, unspecified | 15137 | C390000 | Hypogammaglobulinaemia NOS | |
| 18700C390300Selective IgG immunodeficiency57161C390500Congenital hypogammaglobulinaemia60880C390512Congenital X-linked agammaglobulinaemia69373C390600Immunodeficiency with IgM hypergammaglobulinaemia57322C390700Common variable immunodeficiency62598C390900Agammaglobulinaemia NEC50665C391000Predominantly T-cell immuno-deficiency NOS31322C391200Wiskott - Aldrich syndrome62236C392.00Combined immunity deficiency62328C39200Adenosine deaminase deficiency NOS26410C394.00Autoimmune disease NOS65617C395.00Immunodeficiency with short-limbed stature54203C397.00Hyperimmunoglobulin E syndrome21975C398.00Common variable immunodeficiency6857C392.00Common variable immunodeficiency39800C39X.00Immunodeficiency associated+major defect, unspecified | 8548 | C390100 | Selective IgA immunodeficiency | |
| 57161C390500Congenital hypogammaglobulinaemia60880C390512Congenital X-linked agammaglobulinaemia69373C390600Immunodeficiency with IgM hypergammaglobulinaemia57322C390700Common variable immunodeficiency62598C390900Agammaglobulinaemia NEC50665C391000Predominantly T-cell immuno-deficiency NOS31322C391200Wiskott - Aldrich syndrome62236C392.00Combined immunity deficiency72804C392600Adenosine deaminase deficiency NOS26410C394.00Autoimmune disease NOS65617C395.00Immunodeficiency with short-limbed stature54203C397.00Hyperimmunoglobulin E syndrome21975C398.00Common variable immunodeficiency66857C398200Mannose-binding lectin deficiency39800C39X.00Immunodeficiency associated+major defect, unspecified | 18701 | C390200 | Selective IgM immunodeficiency | |
| 60880C390512Congenital X-linked agammaglobulinaemia69373C390600Immunodeficiency with IgM hypergammaglobulinaemia57322C390700Common variable immunodeficiency62598C390900Agammaglobulinaemia NEC50665C391000Predominantly T-cell immuno-deficiency NOS31322C391200Wiskott - Aldrich syndrome62236C392.00Combined immunity deficiency72804C392600Adenosine deaminase deficiency NOS26410C394.00Autoimmune disease NOS65617C395.00Immunodeficiency with short-limbed stature54203C397.00Hyperimmunoglobulin E syndrome21975C398.00Common variable immunodeficiency66857C399200Mannose-binding lectin deficiency39800C39X.00Immunodeficiency associated+major defect, unspecified | 18700 | C390300 | Selective IgG immunodeficiency | |
| 69373C390600Immunodeficiency with IgM hypergammaglobulinaemia57322C390700Common variable immunodeficiency62598C390900Agammaglobulinaemia NEC50665C391000Predominantly T-cell immuno-deficiency NOS31322C391200Wiskott - Aldrich syndrome62236C392.00Combined immunity deficiency72804C392600Adenosine deaminase deficiency62328C392200Combined immunity deficiency NOS26410C394.00Autoimmune disease NOS65617C395.00Immunodeficiency with short-limbed stature54203C397.00Hyperimmunoglobulin E syndrome21975C398.00Common variable immunodeficiency66857C39200Mannose-binding lectin deficiency39800C39X.00Immunodeficiency associated+major defect, unspecified | 57161 | C390500 | Congenital hypogammaglobulinaemia | |
| 57322C390700Common variable immunodeficiency62598C390900Agammaglobulinaemia NEC50665C391000Predominantly T-cell immuno-deficiency NOS31322C391200Wiskott - Aldrich syndrome62236C392.00Combined immunity deficiency72804C392600Adenosine deaminase deficiency62328C392z00Combined immunity deficiency NOS26410C394.00Autoimmune disease NOS65617C395.00Immunodeficiency with short-limbed stature54203C397.00Hyperimmunoglobulin E syndrome21975C398.00Common variable immunodeficiency66857C399200Mannose-binding lectin deficiency39800C39X.00Immunodeficiency associated+major defect, unspecified | 60880 | C390512 | Congenital X-linked agammaglobulinaemia | |
| 62598C390900Agammaglobulinaemia NEC50665C391000Predominantly T-cell immuno-deficiency NOS31322C391200Wiskott - Aldrich syndrome62236C392.00Combined immunity deficiency72804C392600Adenosine deaminase deficiency62328C392200Combined immunity deficiency NOS26410C394.00Autoimmune disease NOS65617C395.00Immunodeficiency with short-limbed stature54203C397.00Hyperimmunoglobulin E syndrome21975C398.00Common variable immunodeficiency66857C399200Mannose-binding lectin deficiency39800C39X.00Immunodeficiency associated+major defect, unspecified | 69373 | C390600 | Immunodeficiency with IgM hypergammaglobulinaemia | |
| 50665C391000Predominantly T-cell immuno-deficiency NOS31322C391200Wiskott - Aldrich syndrome62236C392.00Combined immunity deficiency72804C392600Adenosine deaminase deficiency62328C392z00Combined immunity deficiency NOS26410C394.00Autoimmune disease NOS65617C395.00Immunodeficiency with short-limbed stature54203C397.00Hyperimmunoglobulin E syndrome21975C398.00Common variable immunodeficiency66857C399200Mannose-binding lectin deficiency39800C39X.00Immunodeficiency associated+major defect, unspecified | 57322 | C390700 | Common variable immunodeficiency | |
| 31322C391200Wiskott - Aldrich syndrome62236C392.00Combined immunity deficiency72804C392600Adenosine deaminase deficiency62328C392z00Combined immunity deficiency NOS26410C394.00Autoimmune disease NOS65617C395.00Immunodeficiency with short-limbed stature54203C397.00Hyperimmunoglobulin E syndrome21975C398.00Common variable immunodeficiency66857C398200Common variable immunodeficiency109671C399000Mannose-binding lectin deficiency39800C39X.00Immunodeficiency associated+major defect, unspecified | 62598 | C390900 | Agammaglobulinaemia NEC | |
| 62236C392.00Combined immunity deficiency72804C392600Adenosine deaminase deficiency62328C392z00Combined immunity deficiency NOS26410C394.00Autoimmune disease NOS65617C395.00Immunodeficiency with short-limbed stature54203C397.00Hyperimmunoglobulin E syndrome21975C398.00Common variable immunodeficiency66857C398200Common variable immunodeficiency109671C399000Mannose-binding lectin deficiency39800C39X.00Immunodeficiency associated+major defect, unspecified | 50665 | C391000 | Predominantly T-cell immuno-deficiency NOS | |
| 72804C392600Adenosine deaminase deficiency62328C392z00Combined immunity deficiency NOS26410C394.00Autoimmune disease NOS65617C395.00Immunodeficiency with short-limbed stature54203C397.00Hyperimmunoglobulin E syndrome21975C398.00Common variable immunodeficiency66857C398200Common variable immunodef wth autoantibod to B- or T-cells109671C399000Mannose-binding lectin deficiency39800C39X.00Immunodeficiency associated+major defect, unspecified | 31322 | C391200 | Wiskott - Aldrich syndrome | |
| 62328C392z00Combined immunity deficiency NOS26410C394.00Autoimmune disease NOS65617C395.00Immunodeficiency with short-limbed stature54203C397.00Hyperimmunoglobulin E syndrome21975C398.00Common variable immunodeficiency66857C398200Common variable immunodef wth autoantibod to B- or T-cells109671C399000Mannose-binding lectin deficiency39800C39X.00Immunodeficiency associated+major defect, unspecified | 62236 | C392.00 | Combined immunity deficiency | |
| 26410C394.00Autoimmune disease NOS65617C395.00Immunodeficiency with short-limbed stature54203C397.00Hyperimmunoglobulin E syndrome21975C398.00Common variable immunodeficiency66857C398200Common variable immunodef wth autoantibod to B- or T-cells109671C399000Mannose-binding lectin deficiency39800C39X.00Immunodeficiency associated+major defect, unspecified | 72804 | C392600 | Adenosine deaminase deficiency | |
| 65617C395.00Immunodeficiency with short-limbed stature54203C397.00Hyperimmunoglobulin E syndrome21975C398.00Common variable immunodeficiency66857C398200Common variable immunodef wth autoantibod to B- or T-cells109671C399000Mannose-binding lectin deficiency39800C39X.00Immunodeficiency associated+major defect, unspecified | 62328 | C392z00 | Combined immunity deficiency NOS | |
| 54203C397.00Hyperimmunoglobulin E syndrome21975C398.00Common variable immunodeficiency66857C398200Common variable immunodef wth autoantibod to B- or T-cells109671C399000Mannose-binding lectin deficiency39800C39X.00Immunodeficiency associated+major defect, unspecified | 26410 | C394.00 | Autoimmune disease NOS | |
| 21975C398.00Common variable immunodeficiency66857C398200Common variable immunodef wth autoantibod to B- or T-cells109671C399000Mannose-binding lectin deficiency39800C39X.00Immunodeficiency associated+major defect, unspecified | 65617 | C395.00 | Immunodeficiency with short-limbed stature | |
| 66857C398200Common variable immunodef wth autoantibod to B- or T-cells109671C399000Mannose-binding lectin deficiency39800C39X.00Immunodeficiency associated+major defect, unspecified | 54203 | C397.00 | Hyperimmunoglobulin E syndrome | |
| 109671C399000Mannose-binding lectin deficiency39800C39X.00Immunodeficiency associated+major defect, unspecified | 21975 | C398.00 | Common variable immunodeficiency | |
| 39800 C39X.00 Immunodeficiency associated+major defect, unspecified | 66857 | C398200 | Common variable immunodef wth autoantibod to B- or T-cells | |
| | 109671 | C399000 | Mannose-binding lectin deficiency | |
| | 39800 | C39X.00 | Immunodeficiency associated+major defect, unspecified | |

| 66218C3A00Iodine-deficiency syndromes52212Cyu2.00[X]Diabetes mellitus795D0000Iron deficiency anaemias27726D000.00Iron deficiency anaemia due to chronic blood loss48338D000.12Iron deficiency anaemia due to blood loss48739D002200Idiopathic hypochromic anaemia15439D002200Iron deficiency anaemia NOS4475D0111Megaloblastic anaemia2813D010.11Addison's anaemia55370D011.12Biermer's congenital pernicious anaemia46289D010.13Congenital deficiency anaemia32953D011000Vitamin B12 deficiency anaemia due to dietary causes2482D011100Vitamin B12 deficiency anaemia62637D011200Transcobalamin II deficiency59103D012121Megaloblastic anaemia due to dietary causes64601D014000Amino-acid deficiency anaemia104812D01y000Vitamin E deficiency anaemia62257D01y100Vitamin E deficiency anaemia53799D012.11Megaloblastic anaemia NOS53799D012.11Megaloblastic anaemia57274D010.00Hereditary spherocytosis71308D10.00Hereditary spherocytosis71400D14000Amino-acid deficiency anaemia57274D100.00Hereditary spherocytosis71308D10200Glucose-6-phosphate dehydrogenase deficiency anaemia107820D103000Haemolytic anaemia due to pyruvate kinase def | Medcode | Read Code | Description |
|--|---------|-----------|---|
| 795D00.00Iron deficiency anaemias27726D000.00Iron deficiency anaemia due to chronic blood loss48338D001.12Iron deficiency anaemia due to blood loss40750D002200Idiopathic hypochromic anaemia15439D002200Iron deficiency anaemia NOS4475D0111Megaloblastic anaemia2813D010.12Biermer's congenital pernicious anaemia46289D010.13Congenital deficiency of intrinsic factor5271D011.11Vitamin B12 deficiency anaemia due to dietary causes2482D011000Vitamin B12 deficiency anaemia due to dietary causes2482D011100Vit B12 defic anaemia due to malabsorption with proteinuria62637D012112Megaloblastic anaemia due to dietary causes64601D014000Amino-acid deficiency anaemia104812D01y000Vitamin E deficiency anaemia62257D01y100Vitamin E deficiency anaemia53326D100Hereditary haemolytic anaemia53327D102.00Other deficiency anaemia53328D10.00Hereditary haemolytic anaemia62257D01y100Vitamin E deficiency anaemia53329D012.11Megaloblastic anaemia NOS53329D12.00Haemolytic anaemia3326D100Haemolytic anaemia due to glutathione metabolism disorder22531D102000Glucose-6-phosphate dehydrogenase deficiency55561D103100Haemolytic anaemia due to pyruvate kinase deficiency55561D103100 | 66218 | C3A00 | Iodine-deficiency syndromes |
| 27726D000.00Iron deficiency anaemia due to chronic blood loss48338D000.12Iron deficiency anaemia due to blood loss40750D00z00Idiopathic hypochromic anaemia15439D00z00Iron deficiency anaemia NOS4475D01.11Megaloblastic anaemia2813D010.12Biermer's congenital pernicious anaemia46289D010.13Congenital deficiency of intrinsic factor5271D011.11Vitamin B12 deficiency anaemia32953D011000Vitamin B12 deficiency anaemia32953D011000Vitamin B12 deficiency anaemia2482D011100Vit B12 defic anaemia due to dietary causes2482D011200Transcobalamin II deficiency59103D012112Megaloblastic anaemia due to dietary causes64601D014000Amino-acid deficiency anaemia104812D01200Vitamin E deficiency anaemia62257D01y100Vitamin E deficiency anaemia62257D012.11Megaloblastic anaemia NOS3326D100Hereditary haemolytic anaemias3325D10.00Hereditary spherocytosis71808D102.00Haemolytic anaemia due to glutathione metabolism disorder22531D10300Haemolytic anaemia due to pyruvate kinase deficiency55561D103100Haemolytic anaemia due to pyruvate kinase deficiency1171D104.00Thalassaemia1174D104100Thalassaemia1174D104100Thalassaemia31075D104201Th | 52212 | Cyu2.00 | [X]Diabetes mellitus |
| 48338D000.12Iron deficiency anaemia due to blood loss40750D002200Idiopathic hypochromic anaemia15439D00z00Iron deficiency anaemia NOS4475D0111Megaloblastic anaemia2813D010.11Addison's anaemia55370D010.12Biermer's congenital pernicious anaemia46289D010.13Congenital deficiency of intrinsic factor5271D011.11Vitamin B12 deficiency anaemia32953D011000Vitamin B12 deficiency anaemia due to dietary causes2482D011100Vit B12 defic anaemia due to malabsorption with proteinuria62637D01200Transcobalamin II deficiency59103D012112Megaloblastic anaemia due to dietary causes64601D014000Amino-acid deficiency anaemia104812D01y000Vitamin C deficiency anaemia62257D01y100Vitamin E deficiency anaemia53799D012.11Megaloblastic anaemia NOS3326D100Haemolytic anaemias3326D100Hereditary haemolytic anaemias7237D100.00Hereditary spherocytosis71808D102.00Glucose-6-phosphate dehydrogenase deficiency anaemia107820D13300Haemolytic anaemia due to pyruvate kinase deficiency55561D13100Haemolytic anaemia due to pyruvate kinase deficiency55561D103100Haemolytic anaemia1174D104100Thalassaemia31075D104201Thalassaemia31075D104200A | 795 | D0000 | Iron deficiency anaemias |
| 40750D00z200Idiopathic hypochromic anaemia15439D00z200Iron deficiency anaemia NOS4475D0111Megaloblastic anaemia2813D010.11Addison's anaemia55370D010.12Biermer's congenital pernicious anaemia46289D010.13Congenital deficiency of intrinsic factor5271D011.11Vitamin B12 deficiency anaemia due to dietary causes2482D01100Vitamin B12 deficiency anaemia due to dietary causes2482D011100Vitamin B12 deficiency anaemia due to dietary causes2482D011200Transcobalamin II deficiency59103D012112Megaloblastic anaemia due to dietary causes64601D014000Amino-acid deficiency anaemia104812D01y000Vitamin C deficiency anaemia62257D01y100Vitamin E deficiency anaemia53799D012.11Megaloblastic anaemia NOS53799D012.11Megaloblastic anaemias3326D100Haemolytic anaemias39456D10.00Hereditary spherocytosis71808D102.00Glucose-6-phosphate dehydrogenase deficiency anaemia107820D103000Haemolytic anaemia due to pyruvate kinase deficiency55561D13100Haemolytic anaemia due to pyruvate kinase deficiency5171D104.00Thalassaemia1174D104100Thalassaemia1174D104200Thalassaemia31075D104201Sickle-cell thalassaemia31075D104201Sickle-cell thalas | 27726 | D000.00 | Iron deficiency anaemia due to chronic blood loss |
| 15439D00z200Iron deficiency anaemia NOS4475D01.11Megaloblastic anaemia2813D010.11Addison's anaemia55370D010.12Biermer's congenital pernicious anaemia46289D010.13Congenital deficiency of intrinsic factor5271D011.11Vitamin B12 deficiency anaemia32953D011000Vitamin B12 deficiency anaemia due to dietary causes2482D011100Vit B12 defic anaemia due to malabsorption with proteinuria62637D01200Transcobalamin II deficiency59103D012112Megaloblastic anaemia due to dietary causes64601D014000Amino-acid deficiency anaemia64257D01100Vitamin C deficiency anaemia62257D01100Vitamin E deficiency anaemia62257D012.00Vitamin E deficiency anaemia63799D012.11Megaloblastic anaemia NOS53799D012.11Megaloblastic anaemia NOS3326D100Haemolytic anaemia7237D100.00Hereditary spherocytosis71808D102.00Haemolytic anaemia due to glutathione metabolism disorder25551D103100Haemolytic anaemia due to pyruvate kinase deficiency55561D103100Haemolytic anaemia due to pyruvate kinase deficiency5174D104200Thalassaemia1174D104200Thalassaemia1174D104200Thalassaemia1174D104200Thalassaemia31075D104211Sickle-cell thalassaemia3 | 48338 | D000.12 | Iron deficiency anaemia due to blood loss |
| 4475D01.11Megaloblastic anaemia2813D010.11Addison's anaemia55370D010.12Biermer's congenital pernicious anaemia46289D010.13Congenital deficiency of intrinsic factor5271D011.11Vitamin B12 deficiency anaemia32953D01000Vitamin B12 deficiency anaemia due to dietary causes2482D01100Vit B12 defic anaemia due to malabsorption with proteinuria62637D01200Transcobalamin II deficiency59103D012112Megaloblastic anaemia due to dietary causes64601D014000Amino-acid deficiency anaemia104812D01y000Vitamin C deficiency anaemia62257D01y100Vitamin E deficiency anaemia57274D01z.00Other deficiency anaemia57274D01z.00Haemolytic anaemias NOS53326D100Haemolytic anaemias39456D10.00Hereditary spherocytosis7137D100.00Hereditary spherocytosis71408D10200Glucose-6-phosphate dehydrogenase deficiency anaemia107820D103000Haemolytic anaemia due to pyruvate kinase deficiency1171D104.00Thalassaemia1174D104100Thalassaemia31075D104211Sickle-cell thalassaemia31075D104211Sickle-cell thalassaemia31075D104400Alpha trait thalassaemia3286D104300Alpha trait thalassaemia31075D104211Sickle-cell thalassaemia31075D10 | 40750 | D00z200 | Idiopathic hypochromic anaemia |
| 2813D010.11Addison's anaemia55370D010.12Biermer's congenital pernicious anaemia46289D010.13Congenital deficiency of intrinsic factor5271D011.11Vitamin B12 deficiency anaemia32953D011000Vitamin B12 deficiency anaemia due to dietary causes2482D011100Vit B12 defic anaemia due to malabsorption with proteinuria62637D01200Transcobalamin II deficiency59103D012112Megaloblastic anaemia due to dietary causes64601D014000Amino-acid deficiency anaemia104812D01y000Vitamin C deficiency anaemia62257D011200Vitamin E deficiency anaemia57274D012.00Other deficiency anaemia NOS3326D100Haemolytic anaemia NOS3326D10.00Hereditary herocytosis71808D102.00Glucose-6-phosphate dehydrogenase deficiency anaemia107820D103000Haemolytic anaemia due to pyruvate kinase deficiency55551D103100Haemolytic anaemia due to pyruvate kinase deficiency1171D104.00Thalassaemia1174D104100Thalassaemia1174D104200Thalassaemia31075D104211Sickle-cell thalassaemia31075D104400Alpha thalassaemia31075D104400Alpha thalassaemia31075D104400Alpha thalassaemia31075D104400Alpha trait thalassaemia31075D104400Alpha trait thalassaemia <td>15439</td> <td>D00zz00</td> <td>Iron deficiency anaemia NOS</td> | 15439 | D00zz00 | Iron deficiency anaemia NOS |
| 55370D010.12Biermer's congenital pernicious anaemia46289D010.13Congenital deficiency of intrinsic factor5271D011.11Vitamin B12 deficiency anaemia32953D011000Vitamin B12 deficiency anaemia due to dietary causes2482D011100Vit B12 defic anaemia due to malabsorption with proteinuria62637D01200Transcobalamin II deficiency59103D012112Megaloblastic anaemia due to dietary causes64601D014000Amino-acid deficiency anaemia104812D01y000Vitamin C deficiency anaemia62257D01y100Vitamin E deficiency anaemia62257D01y100Vitamin E deficiency anaemia57274D012.00Other deficiency anaemia NOS53326D100Haemolytic anaemias39456D10.00Hereditary haemolytic anaemias7237D100.00Haemolytic anaemia due to glutathione metabolism disorder25561D103000Haemolytic anaemia due to pyruvate kinase deficiency1171D104.00Thalassaemia1174D104100Thalassaemia1174D104200Thalassaemia3866D104300Alpha thalassaemia37808D104411Homozygous alpha thalassaemia37808D104400Alpha trait thalassaemia3864D104500Beta trait thalassaemia | 4475 | D0111 | Megaloblastic anaemia |
| 46289D010.13Congenital deficiency of intrinsic factor5271D011.11Vitamin B12 deficiency anaemia32953D011000Vitamin B12 deficiency anaemia due to dietary causes2482D011100Vit B12 defic anaemia due to malabsorption with proteinuria62637D011200Transcobalamin II deficiency59103D012112Megaloblastic anaemia due to dietary causes64601D014000Amino-acid deficiency anaemia104812D01y000Vitamin C deficiency anaemia62257D01y100Vitamin E deficiency anaemia62257D01y100Vitamin E deficiency anaemia57274D01z.00Other deficiency anaemia NOS53799D01z.11Megaloblastic anaemia NOS3326D100Haemolytic anaemias39456D10.00Hereditary spherocytosis71808D102.00Glucose-6-phosphate dehydrogenase deficiency anaemia107820D103000Haemolytic anaemia due to pyruvate kinase deficiency55561D103100Haemolytic anaemia due to pyruvate kinase deficiency1171D104.00Thalassaemia1174D104100Thalassaemia with haemoglobin S disease31075D104201Sickle-cell thalassaemia37808D104301Alpha thalassaemia37808D104300Alpha trait thalassaemia37804D104500Beta trait thalassaemia | 2813 | D010.11 | Addison's anaemia |
| 5271D011.11Vitamin B12 deficiency anaemia32953D011000Vitamin B12 deficiency anaemia due to dietary causes2482D011100Vit B12 defic anaemia due to malabsorption with proteinuria62637D011200Transcobalamin II deficiency59103D012112Megaloblastic anaemia due to dietary causes64601D014000Amino-acid deficiency anaemia104812D01y000Vitamin C deficiency anaemia62257D01y100Vitamin E deficiency anaemia62257D01y100Vitamin E deficiency anaemia57274D01z.00Other deficiency anaemia NOS53799D01z.11Megaloblastic anaemia NOS3326D100Haemolytic anaemias39456D10.00Hereditary spherocytosis71808D102.00Glucose-6-phosphate dehydrogenase deficiency anaemia107820D103000Haemolytic anaemia due to pyruvate kinase deficiency55561D103100Haemolytic anaemia due to pyruvate kinase deficiency1171D104.00Thalassaemia1174D104100Thalassaemia31075D104201Sickle-cell thalassaemia31075D104301Alpha thalassaemia31075D104301Alpha trait thalassaemia3264D104500Beta trait thalassaemia | 55370 | D010.12 | Biermer's congenital pernicious anaemia |
| 32953D011000Vitamin B12 deficiency anaemia due to dietary causes2482D011100Vit B12 defic anaemia due to malabsorption with proteinuria62637D011200Transcobalamin II deficiency59103D012112Megaloblastic anaemia due to dietary causes64601D014000Amino-acid deficiency anaemia104812D01y000Vitamin C deficiency anaemia62257D01y100Vitamin E deficiency anaemia57274D01z.00Other deficiency anaemia NOS53799D01z.11Megaloblastic anaemia NOS3326D100Haemolytic anaemias39456D10.00Hereditary haemolytic anaemias7237D100.00Hereditary spherocytosis71808D102.00Glucose-6-phosphate dehydrogenase deficiency anaemia107820D103000Haemolytic anaemia due to pyruvate kinase deficiency55561D103100Haemolytic anaemia due to pyruvate kinase deficiency1171D104.00Thalassaemia1174D104100Thalassaemia31075D104200Sickle-cell thalassaemia31075D104211Sickle-cell thalassaemia31075D104310Alpha trait thalassaemia32864D104500Beta trait thalassaemia | 46289 | D010.13 | Congenital deficiency of intrinsic factor |
| 2482D011100Vit B12 defic anaemia due to malabsorption with proteinuria62637D011200Transcobalamin II deficiency59103D012112Megaloblastic anaemia due to dietary causes64601D014000Amino-acid deficiency anaemia104812D01y000Vitamin C deficiency anaemia62257D01y100Vitamin E deficiency anaemia57274D01z.00Other deficiency anaemia NOS53799D01z.11Megaloblastic anaemias NOS5326D100Haemolytic anaemias39456D10.00Hereditary haemolytic anaemias7237D100.00Hereditary spherocytosis71808D102.00Glucose-6-phosphate dehydrogenase deficiency anaemia107820D103000Haemolytic anaemia due to pyruvate kinase deficiency55561D103100Haemolytic anaemia due to pyruvate kinase deficiency1171D104.00Thalassaemia1174D104100Thalassaemia31075D104200Alpha thalassaemia37808D104301Alpha thalassaemia37808D104400Alpha trait thalassaemia37804D104500Beta trait thalassaemia | 5271 | D011.11 | Vitamin B12 deficiency anaemia |
| 62637D011200Transcobalamin II deficiency59103D012112Megaloblastic anaemia due to dietary causes64601D014000Amino-acid deficiency anaemia104812D01y000Vitamin C deficiency anaemia62257D01y100Vitamin E deficiency anaemia62257D01y100Vitamin E deficiency anaemia57274D01z.00Other deficiency anaemias NOS53799D01z.11Megaloblastic anaemias NOS3326D100Haemolytic anaemias39456D1000Hereditary pherocytosis71808D102.00Haemolytic anaemia due to glutathione metabolism disorder22531D102000Glucose-6-phosphate dehydrogenase deficiency anaemia107820D103000Haemolytic anaemia due to pyruvate kinase deficiency55561D103100Haemolytic anaemia due to pyruvate kinase deficiency1171D104.00Thalassaemia1174D104200Thalassaemia31075D104200Alpha thalassaemia31075D104300Alpha thalassaemia37808D104311Homozygous alpha thalassaemia37808D104400Alpha trait thalassaemia37804D104500Beta trait thalassaemia | 32953 | D011000 | Vitamin B12 deficiency anaemia due to dietary causes |
| 59103D012112Megaloblastic anaemia due to dietary causes64601D014000Amino-acid deficiency anaemia104812D01y000Vitamin C deficiency anaemia62257D01y100Vitamin E deficiency anaemia57274D01z.00Other deficiency anaemia NOS53799D01z.11Megaloblastic anaemia NOS3326D100Haemolytic anaemias39456D1000Hereditary haemolytic anaemias7237D100.00Hereditary spherocytosis71808D102.00Glucose-6-phosphate dehydrogenase deficiency anaemia107820D103000Haemolytic anaemia due to pyruvate kinase deficiency55561D103100Haemolytic anaemia due to pyruvate kinase deficiency1171D104.00Thalassaemia1174D104100Thalassaemia with haemoglobin S disease31075D104211Sickle-cell thalassaemia37808D104301Homozygous alpha thalassaemia37808D104300Alpha trait thalassaemia37804D104500Beta trait thalassaemia | 2482 | D011100 | Vit B12 defic anaemia due to malabsorption with proteinuria |
| 64601D014000Amino-acid deficiency anaemia104812D01y000Vitamin C deficiency anaemia62257D01y100Vitamin E deficiency anaemia57274D01z.00Other deficiency anaemias NOS53799D01z.11Megaloblastic anaemia NOS3326D100Haemolytic anaemias39456D10.00Hereditary haemolytic anaemias7237D100.00Hereditary spherocytosis71808D102.00Glucose-6-phosphate dehydrogenase deficiency anaemia107820D103000Haemolytic anaemia due to glutathione metabolism disorder25561D103100Haemolytic anaemia due to pyruvate kinase deficiency1171D104.00Thalassaemia1174D104100Thalassaemia minor NEC54429D104200Thalassaemia with haemoglobin S disease31075D104211Sickle-cell thalassaemia37808D104311Homozygous alpha thalassaemia37808D104300Alpha trait thalassaemia37804D104500Beta trait thalassaemia | 62637 | D011200 | Transcobalamin II deficiency |
| 104812D01y000Vitamin C deficiency anaemia62257D01y100Vitamin E deficiency anaemia57274D01z.00Other deficiency anaemias NOS53799D01z.11Megaloblastic anaemias NOS3326D100Haemolytic anaemias39456D1000Hereditary haemolytic anaemias7237D100.00Hereditary spherocytosis71808D102.00Haemolytic anaemia due to glutathione metabolism disorder22531D102000Glucose-6-phosphate dehydrogenase deficiency anaemia107820D103000Haemolytic anaemia due to pyruvate kinase deficiency55561D103100Haemolytic anaemia due to pyruvate kinase deficiency1171D104.00Thalassaemia1174D104100Thalassaemia minor NEC54429D104200Thalassaemia31075D104211Sickle-cell thalassaemia37808D104300Alpha thalassaemia37808D104400Alpha trait thalassaemia37804D104500Beta trait thalassaemia | 59103 | D012112 | Megaloblastic anaemia due to dietary causes |
| 62257D01y100Vitamin E deficiency anaemia57274D01z.00Other deficiency anaemias NOS53799D01z.11Megaloblastic anaemia NOS3326D100Haemolytic anaemias39456D1000Hereditary haemolytic anaemias7237D100.00Hereditary spherocytosis71808D102.00Haemolytic anaemia due to glutathione metabolism disorder22531D102000Glucose-6-phosphate dehydrogenase deficiency anaemia107820D103000Haemolytic anaemia due to pyruvate kinase deficiency55561D103100Haemolytic anaemia due to pyruvate kinase deficiency1171D104.00Thalassaemia1174D104100Thalassaemia with haemoglobin S disease31075D104201Sickle-cell thalassaemia37808D104300Alpha thalassaemia37808D104300Alpha trait thalassaemia37804D104500Beta trait thalassaemia | 64601 | D014000 | Amino-acid deficiency anaemia |
| 57274D01z.00Other deficiency anaemias NOS53799D01z.11Megaloblastic anaemia NOS3326D100Haemolytic anaemias39456D1000Hereditary haemolytic anaemias7237D100.00Hereditary spherocytosis71808D102.00Haemolytic anaemia due to glutathione metabolism disorder22531D102000Glucose-6-phosphate dehydrogenase deficiency anaemia107820D103000Haemolytic anaemia due to pyruvate kinase deficiency55561D103100Haemolytic anaemia due to pyruvate kinase deficiency1171D104.00Thalassaemia1174D104100Thalassaemia with haemoglobin S disease31075D104200Alpha thalassaemia37808D104300Alpha trait thalassaemia37804D104500Beta trait thalassaemia | 104812 | D01y000 | Vitamin C deficiency anaemia |
| 53799D01z.11Megaloblastic anaemia NOS3326D100Haemolytic anaemias39456D1000Hereditary haemolytic anaemias7237D100.00Hereditary spherocytosis71808D102.00Haemolytic anaemia due to glutathione metabolism disorder22531D102000Glucose-6-phosphate dehydrogenase deficiency anaemia107820D103000Haemolytic anaemia due to hexokinase deficiency55561D103100Haemolytic anaemia due to pyruvate kinase deficiency1171D104.00Thalassaemia1174D104100Thalassaemia with haemoglobin S disease31075D104201Sickle-cell thalassaemia37808D104300Alpha thalassaemia12235D104400Alpha trait thalassaemia9864D104500Beta trait thalassaemia | 62257 | D01y100 | Vitamin E deficiency anaemia |
| 3326D100Haemolytic anaemias39456D1000Hereditary haemolytic anaemias7237D100.00Hereditary spherocytosis71808D102.00Haemolytic anaemia due to glutathione metabolism disorder22531D102000Glucose-6-phosphate dehydrogenase deficiency anaemia107820D103000Haemolytic anaemia due to hexokinase deficiency55561D103100Haemolytic anaemia due to pyruvate kinase deficiency1171D104.00Thalassaemia1174D104100Thalassaemia minor NEC54429D104200Thalassaemia with haemoglobin S disease31075D104211Sickle-cell thalassaemia37808D104311Homozygous alpha thalassaemia12235D104400Alpha trait thalassaemia9864D104500Beta trait thalassaemia | 57274 | D01z.00 | Other deficiency anaemias NOS |
| 39456D1000Hereditary haemolytic anaemias7237D100.00Hereditary spherocytosis71808D102.00Haemolytic anaemia due to glutathione metabolism disorder22531D102000Glucose-6-phosphate dehydrogenase deficiency anaemia107820D103000Haemolytic anaemia due to hexokinase deficiency55561D103100Haemolytic anaemia due to pyruvate kinase deficiency1171D104.00Thalassaemia1174D104100Thalassaemia minor NEC54429D104200Thalassaemia with haemoglobin S disease31075D104211Sickle-cell thalassaemia37808D104300Alpha thalassaemia12235D104400Alpha trait thalassaemia9864D104500Beta trait thalassaemia | 53799 | D01z.11 | Megaloblastic anaemia NOS |
| 7237D100.00Hereditary spherocytosis71808D102.00Haemolytic anaemia due to glutathione metabolism disorder22531D102000Glucose-6-phosphate dehydrogenase deficiency anaemia107820D103000Haemolytic anaemia due to hexokinase deficiency55561D103100Haemolytic anaemia due to pyruvate kinase deficiency1171D104.00Thalassaemia1174D104100Thalassaemia minor NEC54429D104200Thalassaemia with haemoglobin S disease31075D104211Sickle-cell thalassaemia37808D104300Alpha thalassaemia12235D104400Alpha trait thalassaemia9864D104500Beta trait thalassaemia | 3326 | D100 | Haemolytic anaemias |
| 71808D102.00Haemolytic anaemia due to glutathione metabolism disorder22531D102000Glucose-6-phosphate dehydrogenase deficiency anaemia107820D103000Haemolytic anaemia due to hexokinase deficiency55561D103100Haemolytic anaemia due to pyruvate kinase deficiency1171D104.00Thalassaemia1174D104100Thalassaemia minor NEC54429D104200Thalassaemia with haemoglobin S disease31075D104211Sickle-cell thalassaemia8866D104300Alpha thalassaemia37808D104311Homozygous alpha thalassaemia12235D104400Alpha trait thalassaemia9864D104500Beta trait thalassaemia | 39456 | D1000 | Hereditary haemolytic anaemias |
| 22531D102000Glucose-6-phosphate dehydrogenase deficiency anaemia107820D103000Haemolytic anaemia due to hexokinase deficiency55561D103100Haemolytic anaemia due to pyruvate kinase deficiency1171D104.00Thalassaemia1174D104100Thalassaemia minor NEC54429D104200Thalassaemia with haemoglobin S disease31075D104211Sickle-cell thalassaemia8866D104300Alpha thalassaemia37808D104311Homozygous alpha thalassaemia12235D104400Alpha trait thalassaemia9864D104500Beta trait thalassaemia | 7237 | D100.00 | Hereditary spherocytosis |
| 107820D103000Haemolytic anaemia due to hexokinase deficiency55561D103100Haemolytic anaemia due to pyruvate kinase deficiency1171D104.00Thalassaemia1174D104100Thalassaemia minor NEC54429D104200Thalassaemia with haemoglobin S disease31075D104211Sickle-cell thalassaemia8866D104300Alpha thalassaemia37808D104311Homozygous alpha thalassaemia12235D104400Alpha trait thalassaemia9864D104500Beta trait thalassaemia | 71808 | D102.00 | Haemolytic anaemia due to glutathione metabolism disorder |
| 55561D103100Haemolytic anaemia due to pyruvate kinase deficiency1171D104.00Thalassaemia1174D104100Thalassaemia minor NEC54429D104200Thalassaemia with haemoglobin S disease31075D104211Sickle-cell thalassaemia8866D104300Alpha thalassaemia37808D104311Homozygous alpha thalassaemia12235D104400Alpha trait thalassaemia9864D104500Beta trait thalassaemia | 22531 | D102000 | Glucose-6-phosphate dehydrogenase deficiency anaemia |
| 1171D104.00Thalassaemia1174D104100Thalassaemia minor NEC54429D104200Thalassaemia with haemoglobin S disease31075D104211Sickle-cell thalassaemia8866D104300Alpha thalassaemia37808D104311Homozygous alpha thalassaemia12235D104400Alpha trait thalassaemia9864D104500Beta trait thalassaemia | 107820 | D103000 | Haemolytic anaemia due to hexokinase deficiency |
| 1174D104100Thalassaemia minor NEC54429D104200Thalassaemia with haemoglobin S disease31075D104211Sickle-cell thalassaemia8866D104300Alpha thalassaemia37808D104311Homozygous alpha thalassaemia12235D104400Alpha trait thalassaemia9864D104500Beta trait thalassaemia | 55561 | D103100 | Haemolytic anaemia due to pyruvate kinase deficiency |
| 54429D104200Thalassaemia with haemoglobin S disease31075D104211Sickle-cell thalassaemia8866D104300Alpha thalassaemia37808D104311Homozygous alpha thalassaemia12235D104400Alpha trait thalassaemia9864D104500Beta trait thalassaemia | 1171 | D104.00 | Thalassaemia |
| 31075D104211Sickle-cell thalassaemia8866D104300Alpha thalassaemia37808D104311Homozygous alpha thalassaemia12235D104400Alpha trait thalassaemia9864D104500Beta trait thalassaemia | 1174 | D104100 | Thalassaemia minor NEC |
| 8866D104300Alpha thalassaemia37808D104311Homozygous alpha thalassaemia12235D104400Alpha trait thalassaemia9864D104500Beta trait thalassaemia | 54429 | D104200 | Thalassaemia with haemoglobin S disease |
| 37808D104311Homozygous alpha thalassaemia12235D104400Alpha trait thalassaemia9864D104500Beta trait thalassaemia | 31075 | D104211 | Sickle-cell thalassaemia |
| 12235D104400Alpha trait thalassaemia9864D104500Beta trait thalassaemia | 8866 | D104300 | Alpha thalassaemia |
| 9864 D104500 Beta trait thalassaemia | 37808 | D104311 | Homozygous alpha thalassaemia |
| | 12235 | D104400 | Alpha trait thalassaemia |
| 57144 D104600 Beta intermedia thalassaemia | 9864 | D104500 | Beta trait thalassaemia |
| | 57144 | D104600 | Beta intermedia thalassaemia |
| 27761 D104800 Beta minor thalassaemia | 27761 | D104800 | Beta minor thalassaemia |
| 32943 D104900 Delta-beta thalassaemia | 32943 | D104900 | Delta-beta thalassaemia |
| 4666 D104z00 Thalassaemia NOS | 4666 | | Thalassaemia NOS |
| 3616 D105.00 Sickle-cell trait | 3616 | D105.00 | |
| 23519 D106.00 Sickle-cell anaemia | | D106.00 | |
| 69964 D106000 Sickle-cell anaemia of unspecified type | 69964 | D106000 | Sickle-cell anaemia of unspecified type |
| 32937 D106100 Sickle-cell anaemia with no crisis | 32937 | | |
| 31370 D106200 Sickle-cell anaemia with crisis | 31370 | D106200 | |
| 31306 D106300 Sickle-cell anaemia with haemoglobin C disease | 31306 | D106300 | |
| 8119 D106400 Sickle-cell anaemia with haemoglobin D disease 302 | | D106400 | Sickle-cell anaemia with haemoglobin D disease |

| Medcode | Read Code | Description | |
|---------|-----------|---|-----|
| 93872 | D106500 | Sickle-cell anaemia with haemoglobin E disease | |
| 57397 | D106z00 | Sickle-cell anaemia NOS | |
| 57298 | D107000 | Congenital Heinz-body anaemia | |
| 31800 | D107300 | Haemoglobin-C disease | |
| 7624 | D107400 | Haemoglobin-D disease | |
| 32373 | D107500 | Haemoglobin-E disease | |
| 31662 | D107600 | Haemoglobin Zurich disease | |
| 7526 | D107700 | Haemoglobin-H disease | |
| 14698 | D10z.00 | Hereditary haemolytic anaemia NOS | |
| 27771 | D1100 | Acquired haemolytic anaemias | |
| 3818 | D110.00 | Autoimmune haemolytic anaemias | |
| 39876 | D110z00 | Autoimmune haemolytic anaemia NOS | |
| 57897 | D111.00 | Non-autoimmune haemolytic anaemia | |
| 29323 | D111300 | Haemolytic-uraemic syndrome | |
| 94214 | D111200 | Non-autoimmune haemolytic anaemia NOS | |
| 100022 | D112012 | Marchiafava - Micheli syndrome | |
| 35612 | D112100 | Paroxysmal nocturnal haemoglobinuria | |
| 50495 | D112z12 | Acquired haemolytic anaemia with haemoglobinuria NEC | |
| 29933 | D11z000 | Acquired spherocytosis | |
| 18631 | D1z00 | Haemolytic anaemias NOS | |
| 109273 | D200.13 | Blackfan - Diamond syndrome | |
| 44913 | D200.15 | Hypoplastic anaemia - familial | |
| 37320 | D200000 | Congenital hypoplastic anaemia | |
| 72252 | D200300 | Constitutional red cell aplasia and hypoplasia | |
| 32900 | D200311 | Blackfan - Diamond syndrome | |
| 7225 | D200312 | Congenital pure red cell aplasia | |
| 47438 | D200313 | Constitutional red cell hypoplasia | |
| 61462 | D200314 | Congenital red cell hypoplasia | |
| 43166 | D201100 | Aplastic anaemia due to drugs | |
| 32715 | D201111 | Hypoplastic anaemia due to drug or chemical substance | |
| 57859 | D201200 | Aplastic anaemia due to infection | |
| 65351 | D201211 | Hypoplastic anaemia due to infection | |
| 66239 | D201400 | Aplastic anaemia due to toxic cause | |
| 57114 | D201412 | Hypoplastic anaemia due to toxic cause | |
| 31774 | D201z13 | Secondary red cell hypoplasia NEC | |
| 65502 | D201z14 | Secondary red cell aplasia NEC | |
| 69269 | D20X.00 | Acquired pure red cell aplasia, unspecified | |
| 43330 | D210000 | Congenital sideroblastic anaemia | |
| 41699 | D210100 | Acquired sideroblastic anaemia | |
| 31550 | D210300 | Secondary sideroblastic anaemia due to disease | |
| 47225 | D210400 | Secondary sideroblastic anaemia due to drugs and toxins | |
| 53422 | D21y000 | Congenital dyshaematopoietic anaemia | |
| 31040 | D21y011 | Congenital dyserythropoietic anaemia | |
| 56752 | D21y012 | Congenital dyserythropoiesis NEC | |
| 5632 | D300.00 | Haemophilia-A (factor VIII deficiency) | |
| 2833 | D300.12 | Haemophilia A | |
| 31166 | D301.12 | Haemophilia B | |
| | | | 202 |

| Medcode | Read Code | Description |
|---------|-----------|--|
| 22706 | D302.00 | Haemophilia-C (factor XI deficiency) |
| 56664 | D302.11 | Haemophilia C |
| 46026 | D303.00 | Congenital deficiency of other clotting factors |
| 59314 | D303000 | Congenital afibrinogenaemia |
| 36588 | D303100 | Deficiency of factor II or prothrombin |
| 51291 | D303111 | Hypoprothrombinaemia |
| 15556 | D303200 | Deficiency of factor V or labile factor |
| 45637 | D303300 | Deficiency of factor VII or stable factor |
| 47198 | D303400 | Deficiency of factor X or Stuart-Prower factor |
| 34673 | D303500 | Deficiency of factor XII or Hageman factor |
| 20174 | D303600 | Deficiency of factor XIII or fibrin stabilizing factor |
| 44146 | D303800 | Homozygous factor V Leiden mutation |
| 54725 | D303y00 | Congenital deficiency of other clotting factor OS |
| 57275 | D303z00 | Congenital deficiency of other clotting factor NOS |
| 17520 | D304.00 | Von Willebrand's disease |
| 46025 | D307.00 | Acquired coagulation factor deficiency |
| 46546 | D307200 | Acquired factor II deficiency |
| 43824 | D307211 | Acquired prothrombin deficiency |
| 103789 | D307212 | Acquired hypoprothrombinaemia |
| 37587 | D307z00 | Acquired coagulation factor deficiency NOS |
| 8479 | D309.00 | Protein S deficiency |
| 26102 | D30B.00 | Protein C deficiency |
| 46726 | D311000 | Hereditary haemorrhagic thrombasthenia |
| 5144 | D313.12 | Idiopathic thrombocytopenic purpura |
| 65723 | D313.14 | Megakaryocytic hypoplasia |
| 12234 | D313000 | Idiopathic thrombocytopenic purpura |
| 55582 | D313100 | Congenital thrombocytopenic purpura |
| 58906 | D313111 | Hereditary thrombocytopenia NEC |
| 68533 | D313211 | TAR syndrome |
| 53113 | D400500 | Congenital neutropenia |
| 66049 | D401000 | Congenital dysphagocytosis |
| 50985 | D402.16 | Pelger - Huet anomaly |
| 44611 | D410300 | Polycythaemia due to cyanotic respiratory disease |
| 44894 | D410400 | Renal polycythaemia |
| 10702 | D414.00 | Hypersplenism |
| 111382 | D417.12 | Sulphaemoglobinaemia |
| 34150 | D41y000 | Hypergammaglobulinaemia |
| 2337 | D41y200 | Pseudocholinesterase deficiency |
| 18636 | E011200 | Wernicke-Korsakov syndrome |
| 854 | E1000 | Schizophrenic disorders |
| 73295 | E100.11 | Schizophrenia simplex |
| 58687 | E100500 | Schizophrenia in remission |
| 66506 | E101000 | Unspecified hebephrenic schizophrenia |
| 1494 | E103.00 | Paranoid schizophrenia |
| 36172 | E103500 | Paranoid schizophrenia in remission |
| 9281 | E103z00 | Paranoid schizophrenia NOS |
| 56438 | E107500 | Schizo-affective schizophrenia in remission |
| 304 | | |

| 8407E102.00Schizophrenia NOS8567E11.11Bipolar psychoses26161E11.13Manic disorder, single episode37070F110.00Manic disorder, single episode NOS36611E11000Recurrent manic episodes46425E11100Recurrent manic episodes, moderate65811E11100Recurrent manic episodes, severe without mention psychosis27739E11100Recurrent manic episodes, severe without mention psychosis32255E111400Recurrent manic episodes, severe without mention psychosis37178E111600Recurrent manic episodes, severe without mention psychosis37184E111600Recurrent manic episodes, prevere, with psychosis37178E11100Recurrent manic episodes, in full remission37184E11100Bipolar affective disorder, currently manic37185E114000Bipolar affective disorder, currently manic, mance37186E114000Bipolar affective disorder, currently manic, moderate3718E114000Bipolar affective disorder, currently manic, moderate37202E114000Bipolar affective disorder, currently manic, part/unspec remission37214E114000Bipolar affective disorder, currently manic, NOS37234E11500Bipolar affective disorder, currently depressed, moderate3724E11500Bipolar affective disorder, currently depressed, moderate3725E11500Bipolar affective disorder, currently depressed, moderate37264E11500Bipolar affective disorder, numentid <th>Medcode</th> <th>Read Code</th> <th>Description</th> <th></th> | Medcode | Read Code | Description | |
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| 26161 E1113 Manic psychoses 37070 E110.00 Manic disorder, single episode NOS 26227 E111.00 Recurrent manic episodes, mold 27739 E111.00 Recurrent manic episodes, moldrate 65811 E111100 Recurrent manic episodes, severe without mention psychosis 2275 E111400 Recurrent manic episodes, severe, with psychosis 58863 E111500 Recurrent manic episodes, severe, with psychosis 58863 E111600 Recurrent manic episodes, severe, with psychosis 57885 E111400 Recurrent manic episodes, currently manic 3702 E11400 Bipolar affective disorder, currently manic, unspecified 3702 E114000 Bipolar affective disorder, currently manic, moderate 55829 E114000 Bipolar affective disorder, currently manic, full remission 57605 E114000 Bipolar affective disorder, currently manic, full 63724 E11400 Bipolar affective disorder, currently manic, NOS 63734 E11500 Bipolar affective disorder, currently manic, NOS 63764 E11500 Bipolar affective disorder, currently | 8407 | E10z.00 | Schizophrenia NOS | |
| 26161 E1113 Manic psychoses 37070 E110.00 Manic disorder, single episode NOS 26227 E111.00 Recurrent manic episodes, mold 27739 E111.00 Recurrent manic episodes, moldrate 65811 E111100 Recurrent manic episodes, severe without mention psychosis 2275 E111400 Recurrent manic episodes, severe, with psychosis 58863 E111500 Recurrent manic episodes, severe, with psychosis 58863 E111600 Recurrent manic episodes, severe, with psychosis 57885 E111400 Recurrent manic episodes, currently manic 3702 E11400 Bipolar affective disorder, currently manic, unspecified 3702 E114000 Bipolar affective disorder, currently manic, moderate 55829 E114000 Bipolar affective disorder, currently manic, full remission 57605 E114000 Bipolar affective disorder, currently manic, full 63724 E11400 Bipolar affective disorder, currently manic, NOS 63734 E11500 Bipolar affective disorder, currently manic, NOS 63764 E11500 Bipolar affective disorder, currently | 8567 | E1111 | · · | |
| 37070 E110.00 Manic disorder, single episode 36611 E110200 Recurrent manic episodes 46425 E111100 Recurrent manic episodes, mold 27739 E111200 Recurrent manic episodes, moderate 65811 E111200 Recurrent manic episodes, severe, with psychosis 37295 E111400 Recurrent manic episodes, severe, with psychosis 38663 E111500 Recurrent manic episodes, partial or unspecified remission 37178 E111400 Bipolar affective disorder, currently manic 36126 E111400 Bipolar affective disorder, currently manic, mild 46434 E114200 Bipolar affective disorder, currently manic, moderate 55829 E114400 Bipolar affective disorder, currently manic, part/unspec remission 56126 E114200 Bipolar affective disorder, currently manic, NOS 57845 E114200 Bipolar affective disorder, currently depressed 58746 E11500 Bipolar affective disorder, currently depressed, moderate 58747 E11500 Bipolar affective disorder, currently depressed, moderate 58747 E11500 Bipolar affective disorder, currently depressed, noderate 58765 | 26161 | | | |
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| 73423E117300Unspecified bipolar affective disorder, severe, no psychosis68326E117400Unspecified bipolar affective disorder, severe with psychosis70721E117500Unspecified bipolar affect disord, partial/unspec remission24230E117600Unspecified bipolar affective disorder, in full remission27986E117z00Unspecified bipolar affective disorder, NOS | 63698 | E117100 | Unspecified bipolar affective disorder, mild | |
| 68326E117400Unspecified bipolar affective disorder, severe with psychosis70721E117500Unspecified bipolar affect disord, partial/unspec remission24230E117600Unspecified bipolar affective disorder, in full remission27986E117z00Unspecified bipolar affective disorder, NOS | 68647 | E117200 | Unspecified bipolar affective disorder, moderate | |
| 70721E117500Unspecified bipolar affect disord, partial/unspec remission24230E117600Unspecified bipolar affective disorder, in full remission27986E117z00Unspecified bipolar affective disorder, NOS | 73423 | E117300 | Unspecified bipolar affective disorder, severe, no psychosis | |
| 24230E117600Unspecified bipolar affective disorder, in full remission27986E117z00Unspecified bipolar affective disorder, NOS | 68326 | E117400 | Unspecified bipolar affective disorder, severe with psychosis | |
| 27986 E117z00 Unspecified bipolar affective disorder, NOS | 70721 | E117500 | Unspecified bipolar affect disord, partial/unspec remission | |
| | 24230 | E117600 | Unspecified bipolar affective disorder, in full remission | |
| 109634 E121.11 Sander's disease | 27986 | E117z00 | Unspecified bipolar affective disorder, NOS | |
| | 109634 | E121.11 | Sander's disease | |

| Medcode | Read Code | Description |
|---------|-----------|--|
| 43225 | E1400 | Psychoses with origin in childhood |
| 22098 | E140.00 | Infantile autism |
| 43444 | E140.11 | Kanner's syndrome |
| 1276 | E140.12 | Autism |
| 7302 | E140.13 | Childhood autism |
| 36662 | E140z00 | Infantile autism NOS |
| 71819 | E14y.00 | Other childhood psychoses |
| 24244 | E14y000 | Atypical childhood psychoses |
| 66757 | E14yz00 | Other childhood psychoses NOS |
| 37395 | E14z.11 | Childhood schizophrenia NOS |
| 3208 | E203.00 | Obsessive-compulsive disorders |
| 15566 | E203z00 | Obsessive-compulsive disorder NOS |
| 2135 | E271.00 | Anorexia nervosa |
| 36541 | E2D2211 | Mutism of childhood or adolescence |
| 3775 | E2E00 | Childhood hyperkinetic syndrome |
| 34199 | E2E0000 | Attention deficit without hyperactivity |
| 58069 | E2E1.00 | Hyperkinesis with developmental delay |
| 45263 | E2E2.00 | Hyperkinetic conduct disorder |
| 41769 | E2Ez.00 | Hyperkinetic syndrome NOS |
| 3567 | E2F3.00 | Speech or language developmental disorder |
| 6340 | E2F3.11 | Language development disorder |
| 3417 | E2F3.12 | Speech development disorder |
| 1277 | E2F3z00 | Speech or language developmental disorder NOS |
| 1362 | E300 | Mental retardation |
| 302 | E310.00 | Moderate mental retardation, IQ in range 35-49 |
| 45133 | E312.00 | Profound mental retardation with IQ less than 20 |
| 37867 | E3z00 | Mental retardation NOS |
| 91547 | Eu20311 | [X]Atypical schizophrenia |
| 26299 | Eu31100 | [X]Bipolar affect disorder cur epi manic wout psychotic symp |
| 28277 | Eu31200 | [X]Bipolar affect disorder cur epi manic with psychotic symp |
| 23713 | Eu31400 | [X]Bipol aff disord, curr epis sev depress, no psychot symp |
| 44693 | Eu31600 | [X]Bipolar affective disorder, current episode mixed |
| 27584 | Eu31700 | [X]Bipolar affective disorder, currently in remission |
| 104065 | Eu31800 | [X]Bipolar affective disorder type I |
| 103915 | Eu31900 | [X]Bipolar affective disorder type II |
| 33751 | Eu31z00 | [X]Bipolar affective disorder, unspecified |
| 34929 | Eu50100 | [X]Atypical anorexia nervosa |
| 9581 | Eu50200 | [X]Bulimia nervosa |
| 33863 | Eu50300 | [X]Atypical bulimia nervosa |
| 36946 | Eu50z00 | [X]Eating disorder, unspecified |
| 28962 | Eu700 | [X]Mental retardation |
| 36143 | Eu72.00 | [X]Severe mental retardation |
| 6514 | Eu80z00 | [X]Developmental disorder of speech and language unspecified |
| 98342 | Eu81400 | [X]Moderate learning disability |
| 98293 | Eu81500 | [X]Severe learning disability |
| 4477 | Eu81z11 | [X]Learning disability NOS |
| 3637 | Eu84000 | [X]Childhood autism |

| Medcode | Read Code | Description | |
|---------|--------------|---|---|
| 9982 | Eu84011 | [X]Autistic disorder | |
| 50337 | Eu84012 | [X]Infantile autism | |
| 24044 | Eu84100 | [X]Atypical autism | |
| 24062 | Eu84111 | [X]Atypical childhood psychosis | |
| 34174 | Eu84112 | [X]Mental retardation with autistic features | |
| 51375 | Eu84511 | [X]Autistic psychopathy | |
| 42941 | Eu84z11 | [X]Autistic spectrum disorder | |
| 100899 | Eu85.00 | [X]Global developmental delay | |
| 33505 | Eu90100 | [X]Hyperkinetic conduct disorder | |
| 45799 | Eu90111 | [X]Hyperkinetic disorder associated with conduct disorder | |
| 50015 | Eu90z00 | [X]Hyperkinetic disorder, unspecified | |
| 97421 | Eu90z11 | [X]Hyperkinetic reaction of childhood or adolescence NOS | |
| 96770 | Eu90z12 | [X]Hyperkinetic syndrome NOS | |
| 26285 | Eu9y700 | [X]Attention deficit disorder | |
| 6494 | F037.00 | Transverse myelitis | |
| 34092 | F100 | Hereditary and degenerative diseases of the CNS | |
| 59035 | F100z00 | Leucodystrophy NOS | |
| 21169 | F101300 | Tay-Sach's disease | |
| 31892 | F1100 | Other cerebral degenerations | |
| 11136 | F111.00 | Pick's disease | |
| 4675 | F113.00 | Acquired communicating hydrocephalus | |
| 3584 | F115.00 | Hydrocephalus | |
| 34976 | F11y.00 | Other cerebral degeneration | |
| 31524 | , F11yz00 | Other cerebral degeneration NOS | |
| 21863 | F130.00 | Other basal ganglia degenerative diseases | |
| 40553 | F130400 | Progressive supranuclear ophthalmoplegia | |
| 35839 | F130500 | Shy-Drager syndrome | |
| 50762 | F130z00 | Other basal ganglia degenerative disease NOS | |
| 37644 | F132100 | Progressive myoclonic epilepsy | |
| 45602 | F132200 | Myoclonic encephalopathy | |
| 37897 | F132z00 | Myoclonus NOS | |
| 8487 | F132z12 | Myoclonic seizure | |
| 62243 | F136000 | Idiopathic familial dystonia | |
| 66314 | F137111 | Congenital athetosis | |
| 23356 | F138100 | Orofacial dyskinesia | |
| 107057 | F139000 | Paroxysmal non-kinesigenic dyskinesia | |
| 94690 | F13B.00 | Myoclonic dystonia | |
| 97143 | F13C.00 | Segawa syndrome | |
| 3514 | F141.00 | Hereditary spastic paraplegia | |
| 99763 | F142000 | Marie's cerebellar ataxia | |
| 111807 | F142100 | Sanger-Brown cerebellar ataxia | |
| 109176 | F143.11 | Roussy-Levy syndrome | |
| 50096 | F145.00 | Congenital nonprogressive ataxia | |
| 21889 | F1500 | Anterior horn cell disease | |
| 70109 | F151300 | X-linked bulbo-spinal atrophy | |
| 7470 | F152111 | Duchenne Aran muscular atrophy | |
| 71400 | F15y.00 | Other anterior horn cell disease | _ |

| 58729F152.00Anterior horn cell disease NOS69740F160.00Syringomylelia and syringobulbia9785F160.00Syringomylelia or syringobulbia NOS96785F160.00Syringomylelia or syringobulbia NOS96785F172.00[X] Horners syndrome16167F172.11Horner's syndrome16167F172.00[X] Horners syndrome16168F1900Hereditary and degenerative diseases of the CNS OS105180F1900Horner's syndrome56006F1200Neuromylelits optica56153F210.00Neuromylelits optica56153F210.00Neuromylelits optica56153F220.00Harchiafava-Bignami disease1749F2200Herniplegia8970F221.00Herniplegia8973F222.00Flacid hemiplegia8974F222.00Herniplegia8975F23.00Congenital cerebral palsy2580F23.10Congenital spastic cerebral palsy2580F23.11Congenital diplegia9940F23.010Congenital diplegia9951F23000Congenital diplegia9976F23000Congenital diplegia9985F231.00Congenital diplegia9985F231.00Congenital diplegia9986F231.00Congenital diplegia9987F230.01Congenital monolegia9988F230.00Congenital monolegia9999F230.00Congenital monolegia99940F | Medcode | Read Code | Description |
|--|---------|-----------|---|
| 47358 F160100 Syringomyelia or syringobulbia NOS 96785 F160200 [X] Horners syndrome 16157 F172.10 Horner's syndrome 61968 F1y.00 Hereditary and degenerative diseases of the CNS OS 105180 F1y0.00 Hereditary and degenerative diseases of the CNS NOS 68806 F20.00 Multiple sclerosis of the spinal cord 44795 F21.00 Neuromyelitis optica 56133 F21.900 Marchiafava-Bignami disease 1749 F22.00 Hemiplegia 8970 F22.00 Hemiplegia 8933 F222.00 Hemiplegia 8942 F22.00 Hemiplegia 8955 F23.00 Congenital cerebral palsy 5530 F23.11 Congenital orebral palsy 5540 F23.11 Paraplegia - congenital 9940 F23.11 Paraplegia - congenital 9741 F23000 Congenital maplegia 55551 F23000 Congenital monoplegia 5554 F23.00 Congenital monoplegia | 58729 | F15z.00 | Anterior horn cell disease NOS |
| 96785 F160200 Syringomyelia or syringobulbia NOS 5600 F172.00 [X] Horner's syndrome 16167 F172.11 Horner's syndrome 16168 F1y0.00 Fræditary and degenerative diseases of the CNS OS 105180 F1y0.00 Hereditary and degenerative diseases of the CNS NOS 69886 F201.00 Multiple sclerosis of the spinal cord 44795 F21.000 Murchiafava-fignami disease 1749 F22.01 Hemiplegia 807 F22.00 Hemiplegia 807 F22.00 Hemiplegia 8938 F222.00 Left hemiplegia 8492 F22.00 Hemiplegia 8492 F22.00 Right hemiplegia 8492 F22.00 Right lemiplegia 8492 F22.00 Congenital crebral palsy 5560 F23.11 Congenital diplegia 99040 F230.00 Congenital diplegia 91700 F230000 Congenital diplegia 91711 Spastic diplegic creebral palsy 5121 | 69740 | F160.00 | Syringomyelia and syringobulbia |
| 5600F172.00[X] Horner's syndrome16167F172.11Horner's syndrome61968F1y00Hreditary and degenerative diseases of the CNS OS15180F1y00Hereditary and degenerative diseases of the CNS NOS69886F201.00Multiple sclerosis of the spinal cord44795F210.00Neuromyelitis optica56153F211000Marchiafava-Bignami disease1749F2201Hemiplegia807F2201Hemiplegia8938F220.00Flactio hemiplegia8939F220.00Eft hemiplegia8939F2200Hemiplegia8930F2200Hemiplegia8931F2200Hemiplegia8932F2200Hemiplegia8933F2200Congenital cerebral palsy5540F2311Congenital cerebral palsy5550F2312Infartile cerebral palsy5512F230.00Congenital diplegia99040F2311Paraplegia - congenital37160F230000Congenital diplegia9512F230.00Congenital diplegia19475F230.01Congenital spastic diplegia19475F23.00Congenital spastic diplegia19475F23.00Congenital spastic diplegia19475F23.00Congenital spastic diplegia19475F23.00Congenital spastic diplegia19475F23.00Ataxic infartile cerebral palsy1958F23.00Ataxic infartile cerebral palsy <tr< td=""><td>47358</td><td>F160100</td><td>Syringobulbia</td></tr<> | 47358 | F160100 | Syringobulbia |
| 16167F172.11Horner's syndrome61968F1y00Hereditary and degenerative diseases of the CNS OS105180F1y0.00Fragile X associated tremor ataxia syndrome56006F1200Hereditary and degenerative diseases of the CNS NOS68886F201.00Multiple sclerosis of the spinal cord44795F21.000Neuromyelitis optica56153F22.000Marchiafava-Bignami disease1749F2200Herniplegia897F2211Hemiplegia8933F222.00Flaccid hemiplegia8934F222.00Erthemiplegia8935F220.00Right hemiplegia8942F223.00Congenital cerebral palsy2550F2312Infantile cerebral palsy2550F2312Infantile cerebral palsy2550F2312Infantile cerebral palsy2551F23000Congenital diplegia99040F23011Paraplegia - congenital37160F23000Congenital paraplegia5551F231.00Congenital paraplegia3925F231.00Congenital paraplegia3925F231.00Congenital monoplegia3925F231.00Congenital monoplegia3925F231.00Congenital spastic foot2019F234.00Infantile cerebral palsy25529F234.00Infantile cerebral palsy25537F234.00Infantile cerebral palsy25548F234.00Infantile cerebral palsy25549F234.00 <td< td=""><td>96785</td><td>F160z00</td><td>Syringomyelia or syringobulbia NOS</td></td<> | 96785 | F160z00 | Syringomyelia or syringobulbia NOS |
| 61968F1y.00Hereditary and degenerative diseases of the CNS OS105180F1y0.00Fragile X associated tremor ataxia syndrome56006F1z.00Metreditary and degenerative diseases of the CNS NOS69886F201.00Multiple sclerosis of the spinal cord44795F21.000Neuromyelitis optica56153F21.000Marchiafava-Bignami disease1749F2200Hemiplegia807F2211Hemiplegia8933F222.00Eft hemiplegia8933F222.00Left hemiplegia8492F2200Hemiplegia NOS2069F2300Congenital crebral palsy5500F2312Infantile crebral palsy5531F230.00Congenital iplegia99040F230.11Paraplegia - congenital37160F230000Congenital diplegia104775F23111Spastic diplegia Congenital37160F230000Congenital diplegia104775F23110Congenital monplegia5539F23.00Congenital monplegia37551F230000Congenital diplegia NOS27966F231.00Congenital monplegia35593F23.00Congenital monplegia35593F23.00Congenital monplegia5593F23.00Congenital monplegia5593F23.00Congenital crebral palsy10428F23.00Ataxic diplegic cerebral palsy25594F23.00Ataxic diplegic cerebral palsy25595F23.00Conge | 5600 | F172.00 | [X] Horners syndrome |
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| 15530F23.11Congenital spastic cerebral palsy5560F23.12Infantile cerebral palsy25324F230.00Congenital diplegia99040F230.11Paraplegia - congenital37160F230000Congenital paraplegia5512F230100Cerebral palsy with spastic diplegia104775F230111Spastic diplegic cerebral palsy45551F230200Congenital diplegia NOS27966F231.00Congenital hemiplegia33925F233.00Congenital monoplegia55593F233.11Congenital spastic foot2019F234.00Infantile hemiplegia NOS53178F23y.00Other congenital cerebral palsy104828F23y100Ataxic infantile cerebral palsy104828F23y100Flacid infantile cerebral palsy25593F233.00Congenital spastic cerebral palsy10627F23y200Spastic cerebral palsy2558F23y400Ataxic diplegic cerebral palsy10627F23y100Flaccid infantile cerebral palsy2659F241000Flaccid paraplegia9375F241000Flaccid paraplegia9375F241000Flaccid paraplegia9385F24y000Progressive supranuclear palsy49034F24y011Steele Richardson Olszewsk syn9310F24y02Steele - Richardson Olszewsk syndrome18688F24y100Todd's paralysis7037F24y200Steele-Richardson-Olszewski syndrome573F2500Epil | 8492 | F22z.00 | Hemiplegia NOS |
| 5560F23.12Infantile cerebral palsy25324F230.00Congenital diplegia99040F230.11Paraplegia - congenital37160F230000Congenital paraplegia5512F230100Cerebral palsy with spastic diplegia104775F230111Spastic diplegic cerebral palsy45551F230200Congenital diplegia NOS27966F231.00Congenital hemiplegia33925F233.00Congenital monoplegia5593F233.11Congenital spastic foot2019F234.00Infantile hemiplegia NOS53178F23y00Other congenital cerebral palsy104828F23y100Flaccid infantile cerebral palsy104828F23y100Flaccid infantile cerebral palsy25570F23200Spastic cerebral palsy106627F232,00Congenital suprabulbar paresis28306F232.00Congenital cerebral palsy NOS46175F241000Flaccid paraplegia9375F241100Spastic paraplegia9385F24y000Progressive supranuclear palsy49034F24y011Steele Richardson Olszewsk syn93910F24y012Steele - Richardson Olszewski syndrome18688F24y100Todd's paralysis7037F24y200Steele-Richardson-Olszewski syndrome573F2500Epilepsy | 2069 | F2300 | Congenital cerebral palsy |
| 25324F230.00Congenital diplegia99040F230.11Paraplegia - congenital37160F230000Congenital paraplegia5512F230100Cerebral palsy with spastic diplegia104775F230111Spastic diplegic cerebral palsy45551F230200Congenital diplegia NOS27966F231.00Congenital hemiplegia33925F233.00Congenital spastic foot2019F234.00Infantile hemiplegia NOS5517F230,00Congenital cerebral palsy2019F234.00Infantile hemiplegia NOS53178F23y.00Other congenital cerebral palsy2019F234.00Infantile cerebral palsy21548F23y000Ataxic infantile cerebral palsy25570F23y200Spastic cerebral palsy2659F23y400Ataxic diplegic cerebral palsy20627F23y200Spastic cerebral palsy20636F232.00Congenital cerebral palsy20647F24000Flaccid paraplegia3975F241100Spastic paraplegia3975F24100Flaccid paraplegia3975F24110Spastic paraplegia3975F24100Spastic paraplegia39310F24y011Steele Richardson Oszewski syndrome18688F24y100Todd's paralysis7037F24y200Steele-Richardson-Olszewski syndrome573F2500Epilepsy | 15530 | F2311 | Congenital spastic cerebral palsy |
| 99040F230.11Paraplegia - congenital37160F230000Congenital paraplegia5512F230100Cerebral palsy with spastic diplegia104775F230111Spastic diplegic cerebral palsy45551F230200Congenital diplegia NOS27966F231.00Congenital hemiplegia33925F233.00Congenital spastic foot2019F234.00Infantile hemiplegia NOS53178F23y.00Other congenital cerebral palsy21548F23y000Ataxic infantile cerebral palsy21548F23y000Ataxic infantile cerebral palsy25570F23y200Spastic cerebral palsy25570F23y200Spastic cerebral palsy20627F23y200Spastic cerebral palsy20768F23u00Ataxic diplegic cerebral palsy20779F23y200Spastic cerebral palsy20806F23.00Congenital suprabulbar paresis20807F23y100Flaccid paraplegia30927F241000Flaccid paraplegia30937F24100Spastic paraplegia30938F24y00Progressive supranuclear palsy49034F24y011Steele Richardson Olszewski syndrome30930F24y200Steele-Richardson-Olszewski syndrome573F25.00Epilepsy | 5560 | F2312 | Infantile cerebral palsy |
| 37160F230000Congenital paraplegia5512F230100Cerebral palsy with spastic diplegia104775F230111Spastic diplegic cerebral palsy45551F230200Congenital diplegia NOS27966F231.00Congenital hemiplegia33925F233.00Congenital monoplegia55593F233.11Congenital spastic foot2019F234.00Infantile hemiplegia NOS53178F23y.00Other congenital cerebral palsy21548F23y000Ataxic infantile cerebral palsy21548F23y000Ataxic infantile cerebral palsy25570F23y200Spastic cerebral palsy25570F23y200Spastic cerebral palsy20627F23y400Ataxic diplegic cerebral palsy20627F23y400Ataxic diplegic cerebral palsy20796F241000Flaccid paraplegia3975F241100Spastic paraplegia3975F241100Spastic paraplegia3935F24y001Yorgerssive supranuclear palsy49034F24y011Steele Richardson Olszewsk syn39310F24y020Steele-Richardson-Olszewski syndrome18688F24y100Todd's paralysis7037F24y200Steele-Richardson-Olszewski syndrome573F2500Epilepsy | 25324 | F230.00 | Congenital diplegia |
| 5512F230100Cerebral palsy with spastic diplegia104775F230111Spastic diplegic cerebral palsy45551F230200Congenital diplegia NOS27966F231.00Congenital hemiplegia33925F233.00Congenital spastic foot2019F234.00Infantile hemiplegia NOS53178F23y.00Other congenital cerebral palsy21548F23y000Ataxic infantile cerebral palsy204828F23y100Flaccid infantile cerebral palsy20593F23y200Spastic cerebral palsy20594F23y100Flaccid infantile cerebral palsy20595F23y200Spastic cerebral palsy20627F23y200Spastic cerebral palsy20627F23y100Flaccid infantile cerebral palsy20627F23y100Flaccid infantile cerebral palsy20628F24000Congenital suprabulbar paresis28306F23z.00Congenital cerebral palsy NOS46175F241000Flaccid paraplegia9375F241100Spastic paraplegia9385F24y000Progressive supranuclear palsy49034F24y011Steele Richardson Olszewsk syn93910F24y012Steele Richardson Olszewsk isyndrome18688F24y100Todd's paralysis7037F24y200Steele-Richardson-Olszewski syndrome573F2500Epilepsy | 99040 | F230.11 | Paraplegia - congenital |
| 104775F230111Spastic diplegic cerebral palsy45551F230200Congenital diplegia NOS27966F231.00Congenital hemiplegia33925F233.00Congenital monoplegia5593F233.11Congenital spastic foot2019F234.00Infantile hemiplegia NOS53178F23y.00Other congenital cerebral palsy21548F23y000Ataxic infantile cerebral palsy20559F23y100Flaccid infantile cerebral palsy25570F23y200Spastic cerebral palsy25659F23y400Ataxic diplegic cerebral palsy20627F23y511Congenital cerebral palsy NOS28306F23z.00Congenital cerebral palsy NOS46175F241000Flaccid paraplegia9375F241000Flaccid paraplegia9385F24y001Spastic paraplegia93910F24y012Steele Richardson Olszewsk syn93910F24y100Todd's paralysis7037F24y200Steele-Richardson-Olszewsk isyndrome573F25.00Epilepsy | 37160 | F230000 | Congenital paraplegia |
| 45551F230200Congenital diplegia NOS27966F231.00Congenital hemiplegia33925F233.00Congenital monoplegia55593F233.11Congenital spastic foot2019F234.00Infantile hemiplegia NOS53178F23y.00Other congenital cerebral palsy21548F23y000Ataxic infantile cerebral palsy104828F23y100Flaccid infantile cerebral palsy25570F23y200Spastic cerebral palsy25659F23y400Ataxic diplegic cerebral palsy100627F23y511Congenital suprabulbar paresis28306F23z.00Congenital cerebral palsy NOS46175F241000Flaccid paraplegia9375F24100Spastic paraplegia9385F24y011Steele Richardson Olszewsk syn93910F24y012Steele - Richardson Olszewski syndrome18688F24y100Todd's paralysis7037F24y200Steele-Richardson-Olszewski syndrome573F2500Epilepsy | 5512 | F230100 | Cerebral palsy with spastic diplegia |
| 27966F231.00Congenital hemiplegia33925F233.00Congenital monoplegia55593F233.11Congenital spastic foot2019F234.00Infantile hemiplegia NOS53178F23y.00Other congenital cerebral palsy21548F23y000Ataxic infantile cerebral palsy104828F23y100Flaccid infantile cerebral palsy25570F23y200Spastic cerebral palsy2659F23y400Ataxic diplegic cerebral palsy100627F23y511Congenital cerebral palsy NOS46175F241000Flaccid paraplegia9375F24100Flaccid paraplegia9385F24y011Steele Richardson Olszewsk syn93910F24y012Steele - Richardson Olszewsk i syndrome18688F24y100Todd's paralysis7037F24.00Steele-Richardson-Olszewsk i syndrome573F2500Epilepsy | 104775 | F230111 | Spastic diplegic cerebral palsy |
| 33925F233.00Congenital monoplegia55593F233.11Congenital spastic foot2019F234.00Infantile hemiplegia NOS53178F23y.00Other congenital cerebral palsy21548F23y000Ataxic infantile cerebral palsy104828F23y100Flaccid infantile cerebral palsy25570F23y200Spastic cerebral palsy25570F23y200Spastic cerebral palsy2659F23y400Ataxic diplegic cerebral palsy100627F23y511Congenital suprabulbar paresis28306F23.00Congenital cerebral palsy NOS46175F241000Flaccid paraplegia9375F24100Spastic paraplegia9385F24y011Steele Richardson Olszewsk syn93910F24y012Steele - Richardson Olszewsk i syndrome18688F24y100Steele-Richardson-Olszewsk i syndrome7037F24.00Fuel-Richardson-Olszewsk i syndrome573F2500Epilepsy | 45551 | F230z00 | Congenital diplegia NOS |
| 55593F233.11Congenital spastic foot2019F234.00Infantile hemiplegia NOS53178F23y.00Other congenital cerebral palsy21548F23y000Ataxic infantile cerebral palsy104828F23y100Flaccid infantile cerebral palsy25570F23y200Spastic cerebral palsy2659F23y400Ataxic diplegic cerebral palsy100627F23y511Congenital suprabulbar paresis28306F23z.00Congenital cerebral palsy NOS46175F241000Flaccid paraplegia9375F241100Spastic paraplegia9385F24y011Steele Richardson Olszewsk syn93910F24y012Steele - Richardson Olszewski syndrome18688F24y100Todd's paralysis7037F24y200Steele-Richardson-Olszewski syndrome573F2500Epilepsy | 27966 | F231.00 | Congenital hemiplegia |
| 2019F234.00Infantile hemiplegia NOS53178F23y.00Other congenital cerebral palsy21548F23y000Ataxic infantile cerebral palsy104828F23y100Flaccid infantile cerebral palsy25570F23y200Spastic cerebral palsy25659F23y400Ataxic diplegic cerebral palsy100627F23y511Congenital suprabulbar paresis28306F23z.00Congenital cerebral palsy NOS46175F241000Flaccid paraplegia9375F241100Spastic paraplegia9385F24y000Progressive supranuclear palsy49034F24y011Steele Richardson Olszewski syndrome18688F24y100Todd's paralysis7037F24y200Steele-Richardson-Olszewski syndrome573F2500Epilepsy | 33925 | F233.00 | Congenital monoplegia |
| 53178F23y.00Other congenital cerebral palsy21548F23y000Ataxic infantile cerebral palsy104828F23y100Flaccid infantile cerebral palsy25570F23y200Spastic cerebral palsy52659F23y400Ataxic diplegic cerebral palsy100627F23y511Congenital suprabulbar paresis28306F23z.00Congenital cerebral palsy NOS46175F241000Flaccid paraplegia9375F241100Spastic paraplegia9385F24y000Progressive supranuclear palsy49034F24y011Steele Richardson Olszewsk syn93910F24y012Steele - Richardson Olszewski syndrome18688F24y100Todd's paralysis7037F24y200Steele-Richardson-Olszewski syndrome573F2500Epilepsy | 55593 | F233.11 | Congenital spastic foot |
| 21548F23y000Ataxic infantile cerebral palsy104828F23y100Flaccid infantile cerebral palsy25570F23y200Spastic cerebral palsy52659F23y400Ataxic diplegic cerebral palsy100627F23y511Congenital suprabulbar paresis28306F23z.00Congenital cerebral palsy NOS46175F241000Flaccid paraplegia9375F241100Spastic paraplegia9385F24y000Progressive supranuclear palsy49034F24y011Steele Richardson Olszewsk syn93910F24y012Steele - Richardson Olszewski syndrome18688F24y100Todd's paralysis7037F24y200Steele-Richardson-Olszewski syndrome573F2500Epilepsy | 2019 | F234.00 | Infantile hemiplegia NOS |
| 104828F23y100Flaccid infantile cerebral palsy25570F23y200Spastic cerebral palsy52659F23y400Ataxic diplegic cerebral palsy100627F23y511Congenital suprabulbar paresis28306F23z.00Congenital cerebral palsy NOS46175F241000Flaccid paraplegia9375F241100Spastic paraplegia9385F24y000Progressive supranuclear palsy49034F24y011Steele Richardson Olszewsk syn93910F24y012Steele - Richardson Olszewski syndrome18688F24y100Todd's paralysis7037F24y200Steele-Richardson-Olszewski syndrome573F2500Epilepsy | 53178 | F23y.00 | Other congenital cerebral palsy |
| 25570F23y200Spastic cerebral palsy52659F23y400Ataxic diplegic cerebral palsy100627F23y511Congenital suprabulbar paresis28306F23z.00Congenital cerebral palsy NOS46175F241000Flaccid paraplegia9375F241100Spastic paraplegia9385F24y000Progressive supranuclear palsy49034F24y011Steele Richardson Olszewski syndrome18688F24y100Todd's paralysis7037F24y200Steele-Richardson-Olszewski syndrome573F2500Epilepsy | 21548 | F23y000 | Ataxic infantile cerebral palsy |
| 52659F23y400Ataxic diplegic cerebral palsy100627F23y511Congenital suprabulbar paresis28306F23z.00Congenital cerebral palsy NOS46175F241000Flaccid paraplegia9375F241100Spastic paraplegia9385F24y000Progressive supranuclear palsy49034F24y011Steele Richardson Olszewsk syn93910F24y012Steele - Richardson Oszewski syndrome18688F24y100Todd's paralysis7037F24y200Steele-Richardson-Olszewski syndrome573F2500Epilepsy | 104828 | F23y100 | Flaccid infantile cerebral palsy |
| 100627F23y511Congenital suprabulbar paresis28306F23z.00Congenital cerebral palsy NOS46175F241000Flaccid paraplegia9375F241100Spastic paraplegia9385F24y000Progressive supranuclear palsy49034F24y011Steele Richardson Olszewsk syn93910F24y012Steele - Richardson Oszewski syndrome18688F24y100Todd's paralysis7037F24y200Steele-Richardson-Olszewski syndrome573F2500Epilepsy | 25570 | F23y200 | Spastic cerebral palsy |
| 28306F23z.00Congenital cerebral palsy NOS46175F241000Flaccid paraplegia9375F241100Spastic paraplegia9385F24y000Progressive supranuclear palsy49034F24y011Steele Richardson Olszewsk syn93910F24y012Steele - Richardson Oszewski syndrome18688F24y100Todd's paralysis7037F24y200Steele-Richardson-Olszewski syndrome573F2500Epilepsy | 52659 | F23y400 | Ataxic diplegic cerebral palsy |
| 46175F241000Flaccid paraplegia9375F241100Spastic paraplegia9385F24y000Progressive supranuclear palsy49034F24y011Steele Richardson Olszewsk syn93910F24y012Steele - Richardson Oszewski syndrome18688F24y100Todd's paralysis7037F24y200Steele-Richardson-Olszewski syndrome573F2500Epilepsy | 100627 | F23y511 | Congenital suprabulbar paresis |
| 9375F241100Spastic paraplegia9385F24y000Progressive supranuclear palsy49034F24y011Steele Richardson Olszewsk syn93910F24y012Steele - Richardson Oszewski syndrome18688F24y100Todd's paralysis7037F24y200Steele-Richardson-Olszewski syndrome573F2500Epilepsy | 28306 | F23z.00 | Congenital cerebral palsy NOS |
| 9385F24y000Progressive supranuclear palsy49034F24y011Steele Richardson Olszewsk syn93910F24y012Steele - Richardson Oszewski syndrome18688F24y100Todd's paralysis7037F24y200Steele-Richardson-Olszewski syndrome573F2500Epilepsy | 46175 | F241000 | Flaccid paraplegia |
| 49034F24y011Steele Richardson Olszewsk syn93910F24y012Steele - Richardson Oszewski syndrome18688F24y100Todd's paralysis7037F24y200Steele-Richardson-Olszewski syndrome573F2500Epilepsy | 9375 | F241100 | Spastic paraplegia |
| 93910F24y012Steele - Richardson Oszewski syndrome18688F24y100Todd's paralysis7037F24y200Steele-Richardson-Olszewski syndrome573F2500Epilepsy | 9385 | F24y000 | Progressive supranuclear palsy |
| 18688F24y100Todd's paralysis7037F24y200Steele-Richardson-Olszewski syndrome573F2500Epilepsy | 49034 | F24y011 | Steele Richardson Olszewsk syn |
| 7037F24y200Steele-Richardson-Olszewski syndrome573F2500Epilepsy | 93910 | F24y012 | Steele - Richardson Oszewski syndrome |
| 573 F2500 Epilepsy | 18688 | F24y100 | Todd's paralysis |
| | 7037 | F24y200 | Steele-Richardson-Olszewski syndrome |
| 2907 F250000 Petit mal (minor) epilepsy | 573 | F2500 | Epilepsy |
| | 2907 | F250000 | Petit mal (minor) epilepsy |

| 1715 F250011 Epileptic absences 24309 F250200 Epileptic seizures - atonic 31830 F250400 Juvenile absence epilepsy 44252 F250400 Generalised convulsive epilepsy NOS 26144 F251000 Generalised convulsive epilepsy 988 F251000 Grand mal (major) epilepsy 2804 F251001 Tonic-clonic epilepsy 37782 F251000 Epileptic seizures - donic 18471 F251200 Epileptic seizures - donic 18471 F251000 Epileptic seizures - donic 18471 F251000 Generalised convulsive epilepsy 5688 F251600 Generalised convulsive epilepsy NOS 5117 F25300 Grand mal status 40936 F25100 Generalised convulsive epilepsy NOS 5117 F25400 Partial epilepsy with inpairment of consciousness 3128 F254100 Partial epilepsy with inpairment of consciousness NOS 21390 F25400 Partial epilepsy without impairment of consciousness NOS 2511 F25511 Focal ep | Medcode | Read Code | Description | |
|---|---------|-----------|-----------------------------------|--|
| 24309F250200Epileptic seizures - akinetic31830F250300Generalised nonconvulsive epilepsy NOS26144F251000Generalised nonconvulsive epilepsy NOS26144F251000Generalised convulsive epilepsy2884F251000Grand mal (major) epilepsy3782F251100Neonatal mycolonic epilepsy3784F251000Epileptic seizures - clonic4801F251000Epileptic seizures - clonic4801F251000Epileptic seizures - clonic4801F251000Epileptic seizures - clonic5817F251000Grand mal seizure4808F251000Grand mal seizure4808F251000Grand mal seizure4808F251000Generalised convulsive epilepsy NOS5117F253000Grand mal seizure48080F253100Grand mal seizure48080F253100Grand mal seizure48080F254000Temporal lobe epilepsy32288F254000Partial epilepsy with impairment of consciousness3175F254000Temporal lobe epilepsy32281F254000Partial epilepsy without impairment of consciousness NOS5252F25201Partial epilepsy without impairment of consciousness NOS5253F25500Partial epilepsy without impairment of consciousness OS5254F25500Partial epilepsy without impairment of consciousness NOS5254F25500Partial epilepsy without impairment of consciousness NOS5254F25500Partial epilepsy | | | - | |
| 31830F250300Epileptic seizures - akinetic17399F250400Juvenile absence epilepsy44252F250200Generalised nonconvulsive epilepsy NOS28144F25100Genar mail (major) epilepsy988F25100Grand mal (major) epilepsy3782F251010Nonatal myoclonic epilepsy3782F25100Epileptic seizures - clonic4801F251300Epileptic seizures - clonic4801F251300Epileptic seizures - clonic4801F251300Epileptic seizures - tonic5152F251000Grand mal seizure4806F25100Generalised convulsive epilepsy NOS5117F25300Grand mal seizure48086F25100Grand mal status4933F25400Partial epilepsy with impairment of consciousness3175F25400Partial epilepsy3180F25400Partial epilepsy without impairment of consciousness3175F25400Partial epilepsy without impairment of consciousness3176F25500Partial epilepsy without impairment of consciousness3178F25400Partial epilepsy3180F25400Partial epilepsy5211Focal epilepsy3120F25400Partial epilepsy5251F25500Partial epilepsy5252F25501Motor epilepsy32634F25500Partial epilepsy5253F25500Partial epilepsy5254F25500Partial epilepsy5255F25500< | - | | | |
| 17399F250400Juvenile absence epilepsy44252F250200Generalised nonconvulsive epilepsy NOS26144F251000Grand mal (major) epilepsy2884F251011Tonic-clonic epilepsy37782F251100Neonatal myoclonic epilepsy18771F251200Epileptic seizures - clonic4801F2513000Epileptic seizures - tonic1887F251500Tonic-clonic epilepsy5668F251000Grand mal seizures4806F251000Grand mal seizure49836F253100Grand mal seizure49836F253100Grand mal seizure49836F253100Grand mal seizure4983F253.11Status epilepsy NOS5117F25300Grand mal seizure4983F254.00Partial epilepsy with impairment of consciousness3125F254000Fartial epilepsy32634F254100Psychomotor epilepsy32634F254100Psychosensory epilepsy32635F25501Partial epilepsy without impairment of consciousness NOS26015F25501Partial epilepsy without impairment of consciousness3275F25501Partial epilepsy without impairment of consciousness OS27364F25500Partial epilepsy without impairment of consciousness NOS3737F25500Partial epilepsy without impairment of consciousness NOS3738F25500Partial epilepsy without impairment of consciousness NOS2738F25500Partial epilepsy without impairment of consciousn | | | | |
| 44252F250:00Generalised nonconvulsive epilepsy NOS26144F251.00Generalised convulsive epilepsy988F251000Grand mal (major) epilepsy2804F251011Tonic-clonic epilepsy37782F251100Neonatal myoclonic epilepsy18471F251200Epileptic seizures - clonic4801F251300Epileptic seizures - clonic8187F251400Epileptic seizures - clonic8187F25100Generalised convulsive epilepsy NOS5117F253.00Grand mal seizure40806F253.00Grand mal seizure40807F253.00Grand mal seizure40808F254.00Partial epilepsy with impairment of consciousness3175F254.00Partial epilepsy32288F254.00Partial epilepsy36203F254200Partial epilepsy36203F254200Partial epilepsy31920F254200Partial epilepsy36215F255011Focal epilepsy36236F255012Motor epilepsy36246F25500Partial epilepsy without impairment of consciousness3525F255011Focal epilepsy36341F254.00Partial epilepsy36341F255.00Partial epilepsy36203F255.00Partial epilepsy36204F255.00Partial epilepsy36205F255.00Partial epilepsy36206F255.00Partial epilepsy36207F255.00Partial epilepsy3638 | | | | |
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| 65262 F26y111 Moebius' ophthalmoplegic migraine | 28031 | F26y.00 | Other forms of migraine | |
| | 3658 | F26y000 | Hemiplegic migraine | |
| 22685 F26y200 Status migrainosus | 65262 | F26y111 | Moebius' ophthalmoplegic migraine | |
| | 22685 | F26y200 | Status migrainosus | |

| 28092F26y00Other forms of migraine NOS14700F26x00Narcolepsy11779F271.00Narcolepsy37870F280211Intracerebral cyst NOS37871F280211Pseudoporencephaly37872F280211Intracerebral cyst NOS46041F281.10CFS - Chronic fatigue syndrome98734F28200Severe chronic fatigue syndrome98734F28200Severe chronic fatigue syndrome98734F28000Severe chronic fatigue syndrome98734F28.00GUTI deficiency syndrome101242F284.00Guttri deficiency syndrome10353F281.00Spastic quadriplegic cerebral palsy10454F28.00Cerebral palsy104754F28.00Other cerebral palsy104754F28.00Cerebral palsy NOS28294F32610Polyneuritis cranialis28294F32610Other cerebral palsy104754F28.00Cenecot-Marie-Tooth syndrome28294F36100Charcot-Marie-Tooth syndrome28294F36100Charcot-Marie-Tooth syndrome28391F36100Charcot-Marie-Tooth syndrome28391F36100Charcot-Marie-Tooth syndrome28391F36100Charcot-Marie-Tooth syndrome28392F36800Hereditary motor and sensory neuropathy type II28456F36100Hereditary motor and sensory neuropathy type II28567F38100Nolyneuropathy in calsease NOS28578F37100Polyneuropathy in | Medcode | Read Code | Description |
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| 32527F368.00Hereditary motor and sensory neuropathy56910F368000Hereditary motor and sensory neuropathy type I35465F368100Hereditary motor and sensory neuropathy type II106103F368200Hereditary motor and sensory neuropathy type III45081F37.11Toxic neuropathy33841F370200Miller-Fisher syndrome57313F371.00Polyneuropathy in collagen vascular disease44095F37100Polyneuropathy in disseminated lupus erythematosus47465F371100Polyneuropathy in polyarteritis nodosa62401F371200Polyneuropathy in collagen vascular disease NOS31790F372.00Polyneuropathy in diabetes30537F373.00Polyneuropathy in malignant disease56272F374.00Polyneuropathy in malignant disease56273F374.00Polyneuropathy in beriberi24355F374200Polyneuropathy in beriberi24355F374200Polyneuropathy in diphtheria39692F374300Polyneuropathy in herpes zoster68960F374500Polyneuropathy in hypoglycaemia100064F374800Polyneuropathy in porphyria40751F374900Polyneuropathy in porphyria | 108834 | F361012 | Charcot-Marie-Tooth syndrome |
| 56910F368000Hereditary motor and sensory neuropathy type I35465F368100Hereditary motor and sensory neuropathy type II106103F368200Hereditary motor and sensory neuropathy type III45081F37.11Toxic neuropathy33841F370200Miller-Fisher syndrome57313F371.00Polyneuropathy in collagen vascular disease44095F371000Polyneuropathy in polyarteritis nodosa62401F371200Polyneuropathy in rheumatoid arthritis71258F371200Polyneuropathy in collagen vascular disease NOS31790F372.00Polyneuropathy in diabetes30537F373.00Polyneuropathy in diabetes56272F374.00Polyneuropathy in disease EC66336F374000Polyneuropathy in beriberi24355F374200Polyneuropathy in vitamin B deficiency52089F374300Polyneuropathy in diphtheria39692F374400Polyneuropathy in herpes zoster68960F374500Polyneuropathy in hypoglycaemia100064F374800Polyneuropathy in mumps58758F374800Polyneuropathy in sarcoidosis58751F374800Polyneuropathy in sarcoidosis | 70040 | F361z00 | Peroneal muscular atrophy NOS |
| 35465F368100Hereditary motor and sensory neuropathy type II106103F368200Hereditary motor and sensory neuropathy type III45081F37.11Toxic neuropathy33841F370200Miller-Fisher syndrome57313F371.00Polyneuropathy in collagen vascular disease44095F371000Polyneuropathy in disseminated lupus erythematosus47465F371100Polyneuropathy in polyarteritis nodosa62401F371200Polyneuropathy in collagen vascular disease NOS31790F372.00Polyneuropathy in diabetes30537F373.00Polyneuropathy in diabetes30537F374.00Polyneuropathy in disease EC66336F374000Polyneuropathy in amliginant disease52052F374200Polyneuropathy in vitamin B deficiency24355F374200Polyneuropathy in heriberi24355F374200Polyneuropathy in herpes zoster68960F374500Polyneuropathy in mumps39692F374800Polyneuropathy in porphyria40051F374800Polyneuropathy in sarcoidosis | 32527 | F368.00 | Hereditary motor and sensory neuropathy |
| 106103F368200Hereditary motor and sensory neuropathy type III45081F37.11Toxic neuropathy33841F370200Miller-Fisher syndrome57313F371.00Polyneuropathy in collagen vascular disease44095F371000Polyneuropathy in disseminated lupus erythematosus47465F371100Polyneuropathy in polyarteritis nodosa62401F371200Polyneuropathy in rheumatoid arthritis71258F371200Polyneuropathy in collagen vascular disease NOS31790F372.00Polyneuropathy in collagen vascular disease NOS30537F373.00Polyneuropathy in diabetes30537F374.00Polyneuropathy in disease EC66336F374000Polyneuropathy in beriberi24355F374200Polyneuropathy in vitamin B deficiency52089F374300Polyneuropathy in herpes zoster68960F374500Polyneuropathy in hypoglycaemia100064F374600Polyneuropathy in porphyria40751F374900Polyneuropathy in sarcoidosis | 56910 | F368000 | Hereditary motor and sensory neuropathy type I |
| 45081F37.11Toxic neuropathy33841F370200Miller-Fisher syndrome57313F371.00Polyneuropathy in collagen vascular disease44095F371000Polyneuropathy in disseminated lupus erythematosus47465F371100Polyneuropathy in polyarteritis nodosa62401F371200Polyneuropathy in rheumatoid arthritis71258F371200Polyneuropathy in collagen vascular disease NOS31790F372.00Polyneuropathy in diabetes30537F373.00Polyneuropathy in diabetes56272F374.00Polyneuropathy in disease EC66336F374000Polyneuropathy in beriberi24355F374200Polyneuropathy in vitamin B deficiency52089F374300Polyneuropathy in herpes zoster68960F374500Polyneuropathy in hypoglycaemia100064F374600Polyneuropathy in mumps58758F374800Polyneuropathy in sarcoidosis58751F374800Polyneuropathy in sarcoidosis | 35465 | F368100 | Hereditary motor and sensory neuropathy type II |
| 33841F370200Miller-Fisher syndrome57313F371.00Polyneuropathy in collagen vascular disease44095F371000Polyneuropathy in disseminated lupus erythematosus47465F371100Polyneuropathy in polyarteritis nodosa62401F371200Polyneuropathy in rheumatoid arthritis71258F371200Polyneuropathy in collagen vascular disease NOS31790F372.00Polyneuropathy in diabetes30537F373.00Polyneuropathy in malignant disease56272F374.00Polyneuropathy in disease EC66336F374000Polyneuropathy in beriberi24355F374200Polyneuropathy in vitamin B deficiency52089F374300Polyneuropathy in herpes zoster68960F374500Polyneuropathy in hypoglycaemia100064F374600Polyneuropathy in mumps58758F374800Polyneuropathy in sarcoidosis40751F374900Polyneuropathy in sarcoidosis | 106103 | F368200 | Hereditary motor and sensory neuropathy type III |
| 57313F371.00Polyneuropathy in collagen vascular disease44095F371000Polyneuropathy in disseminated lupus erythematosus47465F371100Polyneuropathy in polyarteritis nodosa62401F371200Polyneuropathy in rheumatoid arthritis71258F371200Polyneuropathy in collagen vascular disease NOS31790F372.00Polyneuropathy in diabetes30537F373.00Polyneuropathy in malignant disease56272F374.00Polyneuropathy in amyloidosis73337F374100Polyneuropathy in beriberi24355F374200Polyneuropathy in vitamin B deficiency52089F374300Polyneuropathy in herpes zoster68960F374500Polyneuropathy in hypoglycaemia100064F374600Polyneuropathy in mumps58758F374800Polyneuropathy in porphyria40751F374900Polyneuropathy in sarcoidosis | 45081 | F3711 | Toxic neuropathy |
| 44095F371000Polyneuropathy in disseminated lupus erythematosus47465F371100Polyneuropathy in polyarteritis nodosa62401F371200Polyneuropathy in rheumatoid arthritis71258F371200Polyneuropathy in collagen vascular disease NOS31790F372.00Polyneuropathy in diabetes30537F373.00Polyneuropathy in malignant disease56272F374.00Polyneuropathy in disease EC66336F374000Polyneuropathy in beriberi24355F374200Polyneuropathy in vitamin B deficiency52089F374300Polyneuropathy in diphtheria39692F374000Polyneuropathy in herpes zoster68960F374600Polyneuropathy in mumps100064F374600Polyneuropathy in mumps58758F374800Polyneuropathy in porphyria40751F374900Polyneuropathy in sarcoidosis | 33841 | F370200 | Miller-Fisher syndrome |
| 47465F371100Polyneuropathy in polyarteritis nodosa62401F371200Polyneuropathy in rheumatoid arthritis71258F371200Polyneuropathy in collagen vascular disease NOS31790F372.00Polyneuropathy in diabetes30537F373.00Polyneuropathy in malignant disease56272F374.00Polyneuropathy in disease EC66336F374000Polyneuropathy in amyloidosis73337F374100Polyneuropathy in beriberi24355F374200Polyneuropathy in vitamin B deficiency52089F374300Polyneuropathy in herpes zoster68960F374500Polyneuropathy in hypoglycaemia100064F374600Polyneuropathy in mumps58758F374800Polyneuropathy in porphyria40751F374900Polyneuropathy in sarcoidosis | 57313 | F371.00 | Polyneuropathy in collagen vascular disease |
| 62401F371200Polyneuropathy in rheumatoid arthritis71258F371200Polyneuropathy in collagen vascular disease NOS31790F372.00Polyneuropathy in diabetes30537F373.00Polyneuropathy in malignant disease56272F374.00Polyneuropathy in disease EC66336F374000Polyneuropathy in beriberi24355F374200Polyneuropathy in vitamin B deficiency52089F374300Polyneuropathy in diphtheria39692F374400Polyneuropathy in herpes zoster68960F374500Polyneuropathy in mumps58758F374800Polyneuropathy in mumps58758F374900Polyneuropathy in porphyria40751F374900Polyneuropathy in sarcoidosis | 44095 | F371000 | Polyneuropathy in disseminated lupus erythematosus |
| 71258F371z00Polyneuropathy in collagen vascular disease NOS31790F372.00Polyneuropathy in diabetes30537F373.00Polyneuropathy in malignant disease56272F374.00Polyneuropathy in disease EC66336F374000Polyneuropathy in amyloidosis73337F374100Polyneuropathy in beriberi24355F374200Polyneuropathy in vitamin B deficiency52089F374300Polyneuropathy in diphtheria39692F374400Polyneuropathy in herpes zoster68960F374500Polyneuropathy in mumps58758F374800Polyneuropathy in porphyria40751F374900Polyneuropathy in sarcoidosis | 47465 | F371100 | Polyneuropathy in polyarteritis nodosa |
| 31790F372.00Polyneuropathy in diabetes30537F373.00Polyneuropathy in malignant disease56272F374.00Polyneuropathy in disease EC66336F374000Polyneuropathy in amyloidosis73337F374100Polyneuropathy in beriberi24355F374200Polyneuropathy in vitamin B deficiency52089F374300Polyneuropathy in diphtheria39692F374400Polyneuropathy in herpes zoster68960F374500Polyneuropathy in hypoglycaemia100064F374600Polyneuropathy in porphyria40751F374900Polyneuropathy in sarcoidosis | 62401 | F371200 | Polyneuropathy in rheumatoid arthritis |
| 30537F373.00Polyneuropathy in malignant disease56272F374.00Polyneuropathy in disease EC66336F374000Polyneuropathy in amyloidosis73337F374100Polyneuropathy in beriberi24355F374200Polyneuropathy in vitamin B deficiency52089F374300Polyneuropathy in diphtheria39692F374400Polyneuropathy in herpes zoster68960F374500Polyneuropathy in mumps58758F374800Polyneuropathy in porphyria40751F374900Polyneuropathy in sarcoidosis | 71258 | F371z00 | Polyneuropathy in collagen vascular disease NOS |
| 56272F374.00Polyneuropathy in disease EC66336F374000Polyneuropathy in amyloidosis73337F374100Polyneuropathy in beriberi24355F374200Polyneuropathy in vitamin B deficiency52089F374300Polyneuropathy in diphtheria39692F374400Polyneuropathy in herpes zoster68960F374500Polyneuropathy in hypoglycaemia100064F374600Polyneuropathy in mumps58758F374800Polyneuropathy in porphyria40751F374900Polyneuropathy in sarcoidosis | 31790 | F372.00 | Polyneuropathy in diabetes |
| 66336F374000Polyneuropathy in amyloidosis73337F374100Polyneuropathy in beriberi24355F374200Polyneuropathy in vitamin B deficiency52089F374300Polyneuropathy in diphtheria39692F374400Polyneuropathy in herpes zoster68960F374500Polyneuropathy in hypoglycaemia100064F374600Polyneuropathy in mumps58758F374800Polyneuropathy in porphyria40751F374900Polyneuropathy in sarcoidosis | 30537 | F373.00 | Polyneuropathy in malignant disease |
| 73337F374100Polyneuropathy in beriberi24355F374200Polyneuropathy in vitamin B deficiency52089F374300Polyneuropathy in diphtheria39692F374400Polyneuropathy in herpes zoster68960F374500Polyneuropathy in hypoglycaemia100064F374600Polyneuropathy in mumps58758F374800Polyneuropathy in porphyria40751F374900Polyneuropathy in sarcoidosis | 56272 | F374.00 | Polyneuropathy in disease EC |
| 24355F374200Polyneuropathy in vitamin B deficiency52089F374300Polyneuropathy in diphtheria39692F374400Polyneuropathy in herpes zoster68960F374500Polyneuropathy in hypoglycaemia100064F374600Polyneuropathy in mumps58758F374800Polyneuropathy in porphyria40751F374900Polyneuropathy in sarcoidosis | 66336 | F374000 | Polyneuropathy in amyloidosis |
| 52089F374300Polyneuropathy in diphtheria39692F374400Polyneuropathy in herpes zoster68960F374500Polyneuropathy in hypoglycaemia100064F374600Polyneuropathy in mumps58758F374800Polyneuropathy in porphyria40751F374900Polyneuropathy in sarcoidosis | 73337 | F374100 | Polyneuropathy in beriberi |
| 39692F374400Polyneuropathy in herpes zoster68960F374500Polyneuropathy in hypoglycaemia100064F374600Polyneuropathy in mumps58758F374800Polyneuropathy in porphyria40751F374900Polyneuropathy in sarcoidosis | 24355 | F374200 | Polyneuropathy in vitamin B deficiency |
| 68960F374500Polyneuropathy in hypoglycaemia100064F374600Polyneuropathy in mumps58758F374800Polyneuropathy in porphyria40751F374900Polyneuropathy in sarcoidosis | 52089 | F374300 | Polyneuropathy in diphtheria |
| 100064F374600Polyneuropathy in mumps58758F374800Polyneuropathy in porphyria40751F374900Polyneuropathy in sarcoidosis | 39692 | F374400 | Polyneuropathy in herpes zoster |
| 58758F374800Polyneuropathy in porphyria40751F374900Polyneuropathy in sarcoidosis | 68960 | F374500 | Polyneuropathy in hypoglycaemia |
| 40751 F374900 Polyneuropathy in sarcoidosis | 100064 | F374600 | Polyneuropathy in mumps |
| | 58758 | F374800 | Polyneuropathy in porphyria |
| 63555 F374z00 Polyneuropathy in disease NOS | 40751 | F374900 | Polyneuropathy in sarcoidosis |
| | 63555 | F374z00 | Polyneuropathy in disease NOS |

| Medcode | Read Code | Description |
|---------|-----------|--|
| 24222 | F376.00 | Polyneuropathy due to drugs |
| 24226 | F37z.11 | Polyneuropathy unspecified |
| 104026 | F3811 | Neuromuscular disease |
| 66740 | F380100 | Juvenile or adult myasthenia gravis |
| 27515 | F380z00 | Myasthenia gravis NOS |
| 51640 | F381.00 | Myasthenic syndrome due to disease EC |
| 105082 | F381011 | Lambert-Eaton syndrome |
| 57551 | F381100 | Myasthenic syndrome due to other malignancy |
| 95005 | F381200 | Myasthenic syndrome due to botulism |
| 39420 | F381300 | Myasthenic syndrome due to diabetic amyotrophy |
| 61069 | F381400 | Myasthenic syndrome due to hypothyroidism |
| 56973 | F381500 | Myasthenic syndrome due to pernicious anaemia |
| 47695 | F381600 | Myasthenic syndrome due to thyrotoxicosis |
| 65825 | F381z00 | Myasthenic syndrome due to disease NOS |
| 63323 | F382.00 | Toxic myoneural disorder |
| 36697 | F38y.11 | Amyotonia congenita |
| 22246 | F38y.13 | Congenital benign hypotonia |
| 63333 | F390000 | Benign congenital myopathy |
| 68118 | F391.00 | Hereditary progressive muscular dystrophy |
| 26210 | F391011 | Pseudohypertrophic dystrophy |
| 48036 | F391100 | Erb's muscular dystrophy |
| 66726 | F391500 | Distal (Gower's) muscular dystrophy |
| 38448 | F391700 | Oculopharyngeal muscular dystrophy |
| 32749 | F391800 | Becker muscular dystrophy |
| 34985 | F391A00 | Emery-Dreifuss muscular dystrophy |
| 23484 | F392111 | Thomsen's disease |
| 54014 | F392300 | Infantile myotonia |
| 101786 | F392400 | Neuromyotonia |
| 44867 | F392z00 | Myotonic disorder NOS |
| 32916 | F394.00 | Toxic myopathy |
| 18307 | F39X.00 | Mitochondrial myopathy, not elsewhere classified |
| 45876 | F421200 | Renal retinopathy |
| 39637 | F421A11 | Retinitis proliferans |
| 66964 | F426500 | Pseudoretinitis pigmentosa |
| 22727 | F427.00 | Hereditary retinal dystrophies |
| 42511 | F427000 | Unspecified hereditary retinal dystrophies |
| 97370 | F427200 | Hereditary retinal dystrophies with other diseases |
| 28450 | F427300 | Juvenile retinoschisis |
| 2745 | F427600 | Retinitis pigmentosa |
| 43899 | F427700 | Other pigmented retinal dystrophies |
| 44058 | F427811 | Progressive rod dystrophy |
| 29168 | F427C00 | Vitelliform dystrophy |
| 69100 | F427H00 | Other Bruch's membrane dystrophy |
| 28113 | F427J00 | Leber's congenital amaurosis |
| 50363 | F427z00 | Hereditary retinal dystrophy NOS |
| 64654 | F435.00 | Hereditary choroid dystrophies |
| 99620 | F435000 | Unspecified hereditary choroid dystrophy |
| | | 311 |

| Medcode | Read Code | Description |
|---------|-----------|---|
| 41668 | F460.00 | Infantile, juvenile and presenile cataracts |
| 49621 | F475100 | Total internal ophthalmoplegia |
| 9884 | F480011 | Congenital amblyopia |
| 40637 | F486300 | Congenital night blindness NOS |
| 28386 | F4A0400 | Hypopyon ulcer |
| 94708 | F4B2100 | Idiopathic corneal oedema |
| 64693 | F4B5100 | Juvenile epithelial corneal dystrophy |
| 52610 | F4E3411 | Pseudoptosis |
| 45341 | F4E4113 | Marcus - Gunn syndrome |
| 24805 | F4G1111 | Pseudotumour of orbit |
| 3826 | F4H1.00 | Optic atrophy |
| 95763 | F4H1300 | Optic atrophy due to retinal dystrophy |
| 45706 | F4H1600 | Leber's hereditary optic atrophy |
| 48037 | F4H1711 | Leber's optic atrophy |
| 41833 | F4H1z00 | Optic atrophy NOS |
| 22373 | F4H3400 | Toxic optic neuropathy |
| 26835 | F4H3z00 | Optic neuritis NOS |
| 47132 | F4H5.00 | Optic chiasm disorders |
| 47676 | F4H5z00 | Optic chiasm disorder NOS |
| 94560 | F4J3000 | Unspecified heterotropia |
| 22632 | F4J4600 | Pseudostrabismus |
| 7766 | F4J7000 | Duane's syndrome |
| 98579 | F4J7011 | Stilling-Turck-Duane syndrome |
| 15996 | F4K0.00 | Scleritis and episcleritis |
| 5318 | F4K0.12 | Scleritis |
| 37665 | F4K0500 | Sclerokeratitis |
| 44859 | F4K0z00 | Scleritis or episcleritis NOS |
| 1523 | F4K4600 | Adie's pupil syndrome |
| 32176 | F4K5600 | Other forms of nystagmus |
| 536 | F591.00 | Sensorineural hearing loss |
| 3171 | F591211 | Nerve deafness |
| 10665 | F591400 | Congenital sensorineural deafness |
| 10112 | F591600 | Sensorineural hearing loss, bilateral |
| 29191 | F591700 | Sensorineurl hear loss, unilat unrestrict hear/contralat side |
| 100736 | F591800 | Congenital prelingual deafness |
| 107323 | F591A00 | Bilateral congenital sensorineural hearing loss |
| 107607 | F591B00 | Profound sensorineural hearing loss |
| 107350 | F591C00 | Moderate sensorineural hearing loss |
| 107610 | F591E00 | Severe sensorineural hearing loss |
| 3747 | F593.00 | Deaf mutism, NEC |
| 686 | F59z.00 | Deafness NOS |
| 7603 | Fy03.00 | Sleep apnoea |
| 108703 | Fy112 | Deafblind |
| 48189 | G0000 | Rheumatic fever without heart involvement |
| 44756 | G0100 | Rheumatic fever with heart involvement |
| 69995 | G020.00 | Rheumatic chorea with heart involvement |
| 63252 | G021.00 | Rheumatic chorea without mention of heart involvement |
| 312 | 001100 | |

| Medcode 72936 9312 1267 1885 32435 51879 | Read Code G02z.00 G100 G1100 G110.00 | Description Rheumatic chorea NOS Chronic rheumatic heart disease |
|--|--|--|
| 9312 1267 1885 32435 | G100 G1100 | |
| 1267 1885 32435 | G1100 | |
| 1885 32435 | | Mitral valve diseases |
| 32435 | | Mitral stenosis |
| | G110.11 | Rheumatic mitral stenosis |
| | G111.00 | Rheumatic mitral insufficiency |
| 21807 | G111.11 | Mitral incompetence - rheumatic |
| 22837 | G111.12 | Mitral regurgitation - rheumatic |
| 44488 | G112.00 | Mitral stenosis with insufficiency |
| 50983 | G112.12 | Mitral stenosis with incompetence |
| 44328 | G112.13 | Mitral stenosis with regurgitation |
| 30443 | G11z.00 | Mitral valve disease NOS |
| 9391 | G120.00 | Rheumatic aortic stenosis |
| 32211 | G121.00 | Rheumatic aortic insufficiency |
| 43347 | G121.11 | Aortic incompetence - rheumatic |
| 7963 | G121.12 | Aortic regurgitation - rheumatic |
| 63960 | G122.00 | Rheumatic aortic stenosis with insufficiency |
| 50809 | G12z.00 | Rheumatic aortic valve disease NOS |
| 49355 | G131.00 | Mitral stenosis and aortic insufficiency |
| 61250 | G131.13 | Mitral stenosis and aortic incompetence |
| 33262 | G132.00 | Mitral insufficiency and aortic stenosis |
| 31759 | G132.12 | Mitral incompetence and aortic stenosis |
| 33907 | G132.13 | Mitral regurgitation and aortic stenosis |
| 31727 | G133.00 | Mitral and aortic incompetence |
| 94872 | G133.11 | Mitral and aortic insufficiency |
| 11878 | G133.12 | Mitral and aortic regurgitation |
| 29158 | G13z.00 | Mitral and aortic valve disease NOS |
| 16373 | G140.00 | Tricuspid valve disease NEC |
| 31505 | G140000 | Rheumatic tricuspid stenosis |
| 60266 | G140100 | Rheumatic tricuspid insufficiency |
| 21980 | G140111 | Tricuspid regurgitation - rheumatic |
| 42239 | G140112 | Tricuspid incompetence - rheumatic |
| 93114 | G140200 | Rheumatic tricuspid stenosis and insufficiency |
| 93113 | G14021X | Rheumatic tricuspid stenosis and regurgitation |
| 62186 | G14021Y | Rheumatic tricuspid stenosis and incompetence |
| 56029 | G140300 | Tricuspid stenosis, cause unspecified |
| 42128 | G140400 | Tricuspid insufficiency, cause unspecified |
| 34869 | G140412 | Tricuspid incompetence, cause unspecified |
| 9286 | G140413 | Tricuspid regurgitation, cause unspecified |
| 72306 | G140500 | Tricuspid stenosis and insufficiency, cause unspecified |
| 49551 | G140514 | Tricuspid stenosis and regurgitation, cause unspecified |
| 72613 | G140z00 | Rheumatic tricuspid valve disease NOS |
| 44167 | G141.00 | Rheumatic pulmonary valve disease |
| 62207 | G141000 | Rheumatic pulmonary stenosis |
| 54088 | G141100 | Rheumatic pulmonary insufficiency |
| 105626 | G141200 | Rheumatic pulmonary stenosis and insufficiency |
| 36768 | G141z00 | Rheumatic pulmonary valve disease NOS |

| Medcode | Read Code | Description |
|---------|-----------|---|
| 59275 | G14z.11 | Rheumatic valvulitis, chronic NOS |
| 62404 | G1y0.00 | Rheumatic myocarditis |
| 53878 | G1yz000 | Rheumatic heart disease unspecified |
| 22262 | G1yz100 | Rheumatic left ventricular failure |
| 799 | G2000 | Essential hypertension |
| 107704 | G2012 | Primary hypertension |
| 31464 | G21z.00 | Hypertensive heart disease NOS |
| 61166 | G21z000 | Hypertensive heart disease NOS without CCF |
| 62718 | G21z100 | Hypertensive heart disease NOS with CCF |
| 4668 | G2200 | Hypertensive renal disease |
| 32423 | G222.00 | Hypertensive renal disease with renal failure |
| 63466 | G2300 | Hypertensive heart and renal disease |
| 21837 | G232.00 | Hypertensive heart&renal dis wth (congestive) heart failure |
| 28684 | G233.00 | Hypertensive heart and renal disease with renal failure |
| 57987 | G234.00 | Hyperten heart&renal dis+both(congestv)heart and renal fail |
| 68659 | G23z.00 | Hypertensive heart and renal disease NOS |
| 7329 | G2400 | Secondary hypertension |
| 42229 | G24zz00 | Secondary hypertension NOS |
| 7057 | G2z00 | Hypertensive disease NOS |
| 15661 | G310.11 | Dressler's syndrome |
| 2155 | G341000 | Ventricular cardiac aneurysm |
| 91774 | G341300 | Acquired atrioventricular fistula of heart |
| 23708 | G361.00 | Atrial septal defect/curr comp folow acut myocardal infarct |
| 7180 | G400 | Pulmonary circulation diseases |
| 24444 | G401.11 | Infarction - pulmonary |
| 54113 | G41y.00 | Other chronic pulmonary heart disease |
| 34065 | G41y000 | Secondary pulmonary hypertension |
| 71046 | G41yz00 | Other chronic pulmonary heart disease NOS |
| 37807 | G42y000 | Pulmonary arteritis |
| 55416 | G52y700 | Toxic myocarditis |
| 59140 | G532100 | Pick's disease of heart |
| 65807 | G532z00 | Constrictive pericarditis NOS |
| 2977 | G540.00 | Mitral valve incompetence |
| 40949 | G540.12 | Mitral valve insufficiency |
| 9450 | G540.14 | Mitral valve regurgitation |
| 1294 | G540.15 | Mitral valve prolapse |
| 561 | G540.16 | Mitral regurgitation |
| 5058 | G540000 | Mitral incompetence, non-rheumatic |
| 34240 | G540100 | Mitral incompetence, cause unspecified |
| 31839 | G540200 | Mitral valve prolapse |
| 39916 | G540300 | Mitral valve leaf prolapse |
| 24557 | G540z00 | Mitral valve disorders NOS |
| 4548 | G541.00 | Aortic valve disorders |
| 14998 | G541000 | Aortic incompetence, non-rheumatic |
| 47887 | G541011 | Aortic insufficiency, non-rheumatic |
| 10187 | G541012 | Aortic regurgitation, non-rheumatic |
| 999 | G541100 | Aortic stenosis, non-rheumatic |
| 314 | | |

| Medcode | Read Code | Description | |
|---------|-----------|--|--|
| 1007 | G541200 | Aortic incompetence alone, cause unspecified | |
| 58810 | G541211 | Aortic insufficiency alone, cause unspecified | |
| 1005 | G541212 | Aortic regurgitation alone, cause unspecified | |
| 2343 | G541300 | Aortic stenosis alone, cause unspecified | |
| 10964 | G541400 | Aortic valve stenosis with insufficiency | |
| 9591 | G541500 | Aortic stenosis | |
| 30610 | G541600 | Aortic valve sclerosis | |
| 49185 | G541700 | Aortic valve calcification | |
| 2817 | G542.00 | Tricuspid valve disorders, non-rheumatic | |
| 1779 | G542000 | Tricuspid incompetence, non-rheumatic | |
| 97738 | G542011 | Tricuspid insufficiency, non-rheumatic | |
| 35372 | G542012 | Tricuspid regurgitation, non-rheumatic | |
| 35724 | G542100 | Tricuspid stenosis, non-rheumatic | |
| 43855 | G542z00 | Tricuspid valve disorders NOS | |
| 12312 | G543.00 | Pulmonary valve disorders | |
| 23608 | G543000 | Pulmonary incompetence, non-rheumatic | |
| 15496 | G543012 | Pulmonary regurgitation, non-rheumatic | |
| 14723 | G543100 | Pulmonary stenosis, non-rheumatic | |
| 46736 | G543200 | Pulmonary incompetence, cause unspecified | |
| 38299 | G543213 | Pulmonary insufficiency, cause unspecified | |
| 2669 | G543300 | Pulmonary stenosis, cause unspecified | |
| 61878 | G543311 | Pulmonary stenosis, cause unspecified | |
| 34932 | G543400 | Pulmonary valve stenosis with insufficiency | |
| 40239 | G544.00 | Multiple valve diseases | |
| 57338 | G544X00 | Multiple valve disease, unspecified | |
| 22003 | G54z013 | Regurgitation of unspecified heart valve | |
| 73283 | G552.11 | Becker's disease | |
| 68766 | G554011 | Congestive obstructive cardiomyopathy | |
| 30667 | G557000 | Amyloid heart disease | |
| 47037 | G558300 | Sarcoid heart disease | |
| 105651 | G558400 | Amyloid cardiomyopathy | |
| 4549 | G5612 | Heart block | |
| 58032 | G561000 | Atrioventricular block unspecified | |
| 27928 | G561300 | Mobitz type I (Wenckebach) atrioventricular block | |
| 103752 | G561311 | Mobitz type 1 second degree atrioventricular block | |
| 27375 | G561z00 | Atrioventricular block NOS | |
| 53826 | G562z00 | Left bundle branch hemiblock NOS | |
| 26318 | G563.00 | Left main stem bundle branch block | |
| 98675 | G565100 | Right BBB with left posterior fascicular block | |
| 57069 | G565200 | Right BBB with left anterior fascicular block | |
| 72653 | G565300 | Other bilateral bundle branch block | |
| 39003 | G565z00 | Other bundle branch block NOS | |
| 39843 | G566.00 | Other heart block | |
| 18437 | G566000 | Sinoatrial block | |
| 46178 | G566z00 | Other heart block NOS | |
| 25147 | G567.00 | Anomalous atrioventricular excitation | |
| 8230 | G567400 | Wolff-Parkinson-White syndrome | |

| Medcode | Read Code | Description |
|---------|-----------|--|
| 42803 | G567z00 | Anomalous atrioventricular excitation NOS |
| 22691 | G56y200 | Romano - Ward syndrome |
| 19337 | G56y500 | Long Q-T syndrome |
| 3769 | G56z000 | Stokes-Adams syndrome |
| 4940 | G570.00 | Paroxysmal supraventricular tachycardia |
| 23647 | G570100 | Paroxysmal atrioventricular tachycardia |
| 51845 | G570200 | Paroxysmal junctional tachycardia |
| 29491 | G570300 | Paroxysmal nodal tachycardia |
| 35124 | G570z00 | Paroxysmal supraventricular tachycardia NOS |
| 7794 | G571.11 | Ventricular tachycardia |
| 25266 | G572.00 | Paroxysmal tachycardia unspecified |
| 1381 | G572z00 | Paroxysmal tachycardia NOS |
| 2212 | G573.00 | Atrial fibrillation and flutter |
| 1664 | G573000 | Atrial fibrillation |
| 96277 | G573400 | Permanent atrial fibrillation |
| 107472 | G573600 | Paroxysmal atrial flutter |
| 23437 | G573z00 | Atrial fibrillation and flutter NOS |
| 9023 | G576300 | Atrial premature depolarization |
| 426 | G577.00 | Sinus arrhythmia |
| 7827 | G57y.00 | Other cardiac dysrhythmias |
| 1536 | G57y900 | Supraventricular tachycardia NOS |
| 31133 | G57yz00 | Other cardiac dysrhythmia NOS |
| 10079 | G580.12 | Right heart failure |
| 884 | G581.00 | Left ventricular failure |
| 23481 | G581.11 | Asthma - cardiac |
| 104275 | G584.00 | Right ventricular failure |
| 509 | G5y3.00 | Cardiomegaly |
| 562 | G5y3411 | Left ventricular hypertrophy |
| 98751 | G5y3600 | Right ventricular dilatation |
| 34437 | G5y7.00 | Sarcoid myocarditis |
| 49787 | G5y8.00 | Rheumatoid myocarditis |
| 29180 | G5y9.00 | Cardiac septal defect, acquired |
| 43816 | G5yA.00 | Rheumatoid carditis |
| 21854 | G5yy700 | Left ventricular thrombosis |
| 107397 | G5yyD00 | Left ventricular cardiac dysfunction |
| 108180 | G5yyE00 | Right ventricular systolic dysfunction |
| 5051 | G6100 | Intracerebral haemorrhage |
| 30202 | G617.00 | Intracerebral haemorrhage, intraventricular |
| 57315 | G618.00 | Intracerebral haemorrhage, multiple localized |
| 31060 | G61X.00 | Intracerebral haemorrhage in hemisphere, unspecified |
| 3535 | G61z.00 | Intracerebral haemorrhage NOS |
| 57495 | G6311 | Infarction - precerebral |
| 569 | G6412 | Infarction - cerebral |
| 26424 | G64z400 | Infarction of basal ganglia |
| 16956 | G669.00 | Cerebral palsy, not congenital or infantile, acute |
| 98277 | G71A.00 | Aortic root dilatation |
| 62323 | G7500 | Polyarteritis nodosa and allied conditions |
| 316 | | |

| 6157 G751000 Kawasaki disease 4810 G754.00 Wegener's granulomatosis 37640 G757.00 Takayasu's disease 3880 G755.00 Juvenile polyarteritis 68136 G752.00 Polyarteritis nodosa and allied conditions NOS 37980 G764.11 Marable's syndrome 4942 G770.00 Hereditary haemorrhagic telangiectasia 35157 G770.11 Rendu - Osler - Weber disease 20676 G820.00 Budd - Chari syndrome (hepatic vein thrombosis) 8412 G8y2200 Superior vena cava syndrome 788 H312.000 Chronic asthmatic bronchitis 111668 H32y.11 Sawyer - Jones syndrome 78 H33.00 Asthma 2200 H33.00 Asthma 1208 H33.00 Asthma 25766 H332.00 Mixed asthma 160605 H332.00 Asthma unspecified 4422 H332.00 Asthma attack 233 H332011 Sture asthma attack 234 <th>Medcode</th> <th>Read Code</th> <th>Description</th> | Medcode | Read Code | Description |
|--|---------|-----------|--------------------------|
| 37640 G757.00 Takayasu's disease 13830 G759.00 Juvenile polyarteritis 68136 G752.00 Polyarteritis nodosa and allied conditions NOS 68136 G752.00 Polyarteritis nodosa and allied conditions NOS 37980 G764.11 Marable's syndrome 4942 G770.00 Hereditary haemorrhagic telangiectasia 35157 G770.11 Rendu - Osler - Weber disease 20676 G820.00 Budd - Chiari syndrome (hepatic vein thrombosis) 8412 G820.00 Rueuratic heart disease 5798 H312000 Chronic asthmatic bronchitis 111668 H32y211 Sawper - Jones syndrome 78 H33.00 Asthma 1208 H33.00 Asthma 1208 H33.00 Asthma 1208 H33.00 Asthma unspecified 4422 H33.00 Asthma unspecified 4432 H33.000 Status asthmaticus NOS 233 H332011 Asthma attack 232 H33200 Status asthma tick | 6157 | G751000 | • |
| 37640 G757.00 Takayasu's disease 13830 G759.00 Juvenile polyarteritis 68136 G752.00 Polyarteritis nodosa and allied conditions NOS 68136 G752.00 Polyarteritis nodosa and allied conditions NOS 37980 G764.11 Marable's syndrome 4942 G770.00 Hereditary haemorrhagic telangiectasia 35157 G770.11 Rendu - Osler - Weber disease 20676 G820.00 Budd - Chiari syndrome (hepatic vein thrombosis) 8412 G820.00 Rueuratic heart disease 5798 H312000 Chronic asthmatic bronchitis 111668 H32y211 Sawper - Jones syndrome 78 H33.00 Asthma 1208 H33.00 Asthma 1208 H33.00 Asthma 1208 H33.00 Asthma unspecified 4422 H33.00 Asthma unspecified 4432 H33.000 Status asthmaticus NOS 233 H332011 Asthma attack 232 H33200 Status asthma tick | 4810 | G754.00 | Wegener's granulomatosis |
| 18380G759.00Juvenile polyarteritis68136G752.00Polyarteritis nodosa and allied conditions NOS37980G764.11Marable's syndrome9492G770.00Hereditary haemorrhagic telangiectasia35157G770.11Rendu - Osler - Weber disease20676G820.00Budd - Chiari syndrome (hepatic vein thrombosis)8412G8y2200Superior vena cava syndrome107452GA00Rheumatic heart disease5798H31200Chronic asthmatic bronchitis111668H32y11Sawyer - Jones syndrome78H33.00Asthma2290H330.11Allergic asthma105805H332.00Mixed asthma105805H332.00Chronic asthma with fixed airflow obstruction4442H332.00Satus asthmaticus NOS233H332011Severe asthma anspecified4442H332.00Asthma unspecified43211Asthma attack2322H33211Asthma attack233H32111Asthma attack234H53.00Pulmonary congestion and hypostasis61229H54.00Pulmonary fibrosis103753H563.31Idiopathic pulmonary fibrosis103753H563.00Idiopathic pulmonary fibrosis103472H56300Pulmonary surcidosis9380H58500Pulmonary surcidosis9380H58500Pulmonary insufficiency following shock7221H58100Pulmonary insufficiency following shock7221H | 37640 | | |
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| 23896J041.12Retrognathism26364J041.00Retrognathism NOS26364J06100Costen's syndrome102267J06y700Unilateral condylar mandibular hyperplasia103529J06y800Orofacial Cronh's disease28161J082900Orofacial granulomatosis10428J08711Ulcerative oral mucositis10428J08711Ulcerative oral mucositis10428J08711Ulcerative oral mucositis10428J10012Megaoesophagus in Chagas' disease16713J100300Megaoesophagus in Chagas' disease16713J103.00Oesophageal stricture and stenosis NOS173141J106300Subdiaphragmatic oesophageal diverticulum63815J106500Acquired oesophageal diverticulum63815J100200Tracheo-oesophageal fistula38418J32.11Omphalocele010368J32.000Omphalocele010379J34.000Diaphragmatic hernia with gargrene44233J341.00Diaphragmatic hernia with obstruction6387J34.00Diaphragmatic hernia with opstruction6388J40.01Crohn's disease7396J402Inflammatory bowel disease7397J40.00Crohn's disease of the ileum unspecified7398J40000Crohn's disease of the ileum NOS7398J40010Crohn's disease of the ileum NOS7398J40010Crohn's disease of the ileum NOS7398J400200Crohn's disease of the ileum NOS< | Medcode | Read Code | Description |
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| 63815J106500Acquired oesophagocole4048J10y200Tracheo-oesophageal fistula38418J3211Omphalocele100368J321000Omphalocele with obstruction4987J3400Diaphragmatic hernia with gangrene44233J341.00Diaphragmatic hernia i rireducible60697J342.00Diaphragmatic hernia i rireducible62920J34y.00Unspecified diaphragmatic hernia44111J34y.11Sandifer's syndrome11780J342.00Diaphragmatic hernia NOS1796J412Inflammatory bowel disease593J4011Crohn's disease of the terminal ileum66238J400200Crohn's disease of the ileum unspecified39278J400200Crohn's disease of the ileum NOS20688J401200Crohn's disease of the large bowel NOS20688J401200Crohn's disease of the large bowel NOS6538J401211Crohn's disease of the large bowel NOS6538J401200Ulcerative colitis and/or proctitis6550J410.00Ulcerative colitis704J410100Ulcerative colitis704J410200Ulcerative proctocolitis8347J410300Ulcerative proctocilitis NOS3443J410.00Ulcerative proctocilitis704J410200Ulcerative proctocilitis NOS3443J412000Ulcerative proctocilitis734J412000Ulcerative proctocilitis734J412000Ulcerative proctocilitis< | 41141 | J103z00 | Oesophageal stricture and stenosis NOS |
| 4048J10y200Tracheo-oesophageal fistula38418J32.11Omphalocele100368J321000Omphalocele with obstruction4987J34.00Diaphragmatic hernia24703J340.00Diaphragmatic hernia with gangrene44233J341.00Diaphragmatic hernia with obstruction60697J342.00Diaphragmatic hernia - irreducible62920J34y.00Unspecified diaphragmatic hernia11780J342.00Diaphragmatic hernia NOS11780J4412Inflammatory bowel disease593J4011Crohn's disease of the terminal ileum66238J400200Crohn's disease of the ileum unspecified39278J400400Crohn's disease of the ileum unspecified39278J400200Crohn's disease of the large bowel NOS20688J401200Crohn's disease of the large bowel NOS20688J401200Crohn's disease NOS1784J41.12Ulcerative proctocolitis6538J401200Ulcerative proctocolitis6539J410.00Ulcerative proctocolitis704J41000Ulcerative rectosigmoiditis8347J410300Ulcerative rectosigmoiditis8347J410300Ulcerative proctocilitis NOS3456J410200Ulcerative proctocilitis NOS3455J410200Ulcerative proctocilitis NOS3456J410200Ulcerative (chronic) enterocolitis3455J410200Ulcerative (chronic) enterocolitis3456J410200Ulcerati | 73431 | J106300 | Subdiaphragmatic oesophageal diverticulum |
| 38418J32.11Omphalocele100368J321000Omphalocele with obstruction4987J34.00Diaphragmatic hernia24703J340.00Diaphragmatic hernia with gangrene44233J341.00Diaphragmatic hernia - irreducible60697J342.00Diaphragmatic hernia - irreducible62920J34y.00Unspecified diaphragmatic hernia4111J34y.11Sandifer's syndrome11780J42.00Diaphragmatic hernia NOS1796J412Inflarmatory bowel disease593J40.11Crohn's disease of the terminal ileum66238J400200Crohn's disease of the ileum unspecified32778J400400Crohn's disease of the ileum NOS9359J400200Crohn's disease of the ileum NOS9359J400200Crohn's disease of the large bowel NOS6538J401210Crohn's disease NOS1784J41.12Ulcerative colitis6539J410.00Ulcerative proctocolitis6650J410.00Ulcerative proctocolitis704J410100Ulcerative rectosigmoiditis8347J410300Ulcerative rectosigmoiditis8347J410300Ulcerative proctocilitis NOS33456J410200Ulcerative (chronic) enterocolitis34453J410200Ulcerative proctocilitis NOS34454J41200Ulcerative proctocilitis NOS34454J41200Ulcerative (chronic) enterocolitis34455J410200Ulcerative (chronic) enterocolitis <td>63815</td> <td>J106500</td> <td>Acquired oesophagocoele</td> | 63815 | J106500 | Acquired oesophagocoele |
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| 44233J341.00Diaphragmatic hernia with obstruction60697J342.00Diaphragmatic hernia - irreducible62920J34y.00Unspecified diaphragmatic hernia44111J34y.11Sandifer's syndrome11780J342.00Diaphragmatic hernia NOS1796J412Inflammatory bowel disease593J40.11Crohn's disease28476J400200Crohn's disease of the terminal ileum66238J400300Crohn's disease of the ileum unspecified39278J400400Crohn's disease of the ileum NOS9359J400200Crohn's disease of the large bowel NOS6638J401200Crohn's disease of the large bowel NOS6538J401211Crohn's disease of the large bowel NOS6538J401211Crohn's disease NOS1784J4112Ulcerative colitis and/or proctitis6550J41000Ulcerative rectosigmoiditis8347J410300Ulcerative rectosigmoiditis8347J410300Ulcerative rectosigmoiditis8347J410200Ulcerative procticolitis NOS30433J411.00Ulcerative proctocolitis3445J412.00Ulcerative proctocolitis3445J412.00Ulcerative proctocolitis3445J412.00Ulcerative proctocolitis3445J412.00Ulcerative proctocolitis3456J412.00Ulcerative proctocolitis3453J412.00Ulcerative pancolitis3454J421.00Ulcerative pancolitis | 4987 | J3400 | Diaphragmatic hernia |
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| 62920J34y.00Unspecified diaphragmatic hernia44111J34y.11Sandifer's syndrome11780J342.00Diaphragmatic hernia NOS1796J412Inflammatory bowel disease593J40.11Crohn's disease28476J400200Crohn's disease of the terminal ileum66238J400300Crohn's disease of the ileum unspecified39278J400400Crohn's disease of the ileum NOS9359J400200Crohn's disease of the small bowel NOS20688J401200Crohn's disease of the large bowel NOS6538J401211Crohn's disease NOS59994J402.11Crohn's disease NOS1784J41.12Ulcerative colitis and/or proctitis6650J410.00Ulcerative rectosigmoiditis84732J41000Ulcerative rectosigmoiditis8347J410300Ulcerative proctocolitis3456J410200Ulcerative proctocolitis NOS30433J411.00Ulcerative (chronic) enterocolitis3445J410200Ulcerative proctocolitis NOS30433J411.00Ulcerative proctocilitis NOS30434J41200Ulcerative proctocilitis NOS30433J411.00Ulcerative proctocilitis NOS30434J421000Superior mesenteric artery syndrome35852J502200Stenosis of intestine NOS | 44233 | J341.00 | Diaphragmatic hernia with obstruction |
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| 9359J400z00Crohn's disease of the small bowel NOS20688J401z00Crohn's disease of the large bowel NOS6538J401z11Crohn's colitis59994J40z.11Crohn's disease NOS1784J4112Ulcerative colitis and/or proctitis6650J410.00Ulcerative proctocolitis48732J41000Ulcerative proctocolitis704J410100Ulcerative rectosigmoiditis8347J410200Ulcerative proctocolitis NOS30433J411.00Ulcerative proctocolitis NOS30433J411.00Ulcerative (chronic) enterocolitis42822J412.00Ulcerative gancolitis36434J421000Superior mesenteric artery syndrome35852J502200Stenosis of intestine NOS | 66238 | J400300 | Crohn's disease of the ileum unspecified |
| 20688J401z00Crohn's disease of the large bowel NOS6538J401z11Crohn's colitis59994J40z.11Crohn's disease NOS1784J4112Ulcerative colitis and/or proctitis6650J410.00Ulcerative proctocolitis48732J410000Ulcerative ileocolitis704J410100Ulcerative colitis24858J410200Ulcerative rectosigmoiditis8347J410300Ulcerative proctocolitis NOS30433J411.00Ulcerative (chronic) enterocolitis42822J412.00Ulcerative (chronic) ileocolitis104259J413.00Ulcerative pancolitis36434J421000Superior mesenteric artery syndrome35852J50z200Stenosis of intestine NOS | 39278 | J400400 | Crohn's disease of the ileum NOS |
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| 59994J40z.11Crohn's disease NOS1784J4112Ulcerative colitis and/or proctitis6650J410.00Ulcerative proctocolitis48732J410000Ulcerative ileocolitis704J410100Ulcerative colitis24858J410200Ulcerative rectosigmoiditis8347J410300Ulcerative procticolitis NOS3456J410200Ulcerative proctocolitis NOS30433J411.00Ulcerative (chronic) enterocolitis42822J412.00Ulcerative (chronic) ileocolitis104259J413.00Ulcerative pancolitis36434J421000Superior mesenteric artery syndrome35852J50z200Stenosis of intestine NOS | 20688 | J401z00 | Crohn's disease of the large bowel NOS |
| 1784J4112Ulcerative colitis and/or proctitis6650J410.00Ulcerative proctocolitis48732J410000Ulcerative ileocolitis704J410100Ulcerative colitis24858J410200Ulcerative rectosigmoiditis8347J410300Ulcerative procticis33456J410200Ulcerative proctocolitis NOS30433J411.00Ulcerative (chronic) enterocolitis42822J412.00Ulcerative (chronic) ileocolitis104259J413.00Ulcerative pancolitis36434J421000Superior mesenteric artery syndrome35852J50z200Stenosis of intestine NOS | 6538 | J401z11 | Crohn's colitis |
| 6650J410.00Ulcerative proctocolitis48732J410000Ulcerative ileocolitis704J410100Ulcerative colitis24858J410200Ulcerative rectosigmoiditis8347J410300Ulcerative proctitis33456J410z00Ulcerative proctocolitis NOS30433J411.00Ulcerative (chronic) enterocolitis42822J412.00Ulcerative (chronic) ileocolitis104259J413.00Ulcerative pancolitis36434J421000Superior mesenteric artery syndrome35852J50z200Stenosis of intestine NOS | 59994 | J40z.11 | Crohn's disease NOS |
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| 24858J410200Ulcerative rectosigmoiditis8347J410300Ulcerative proctitis33456J410z00Ulcerative proctocolitis NOS30433J411.00Ulcerative (chronic) enterocolitis42822J412.00Ulcerative (chronic) ileocolitis104259J413.00Ulcerative pancolitis36434J421000Superior mesenteric artery syndrome35852J50z200Stenosis of intestine NOS | 48732 | J410000 | Ulcerative ileocolitis |
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| | 36434 | J421000 | Superior mesenteric artery syndrome |
| 35863 J527.00 Megacolon excluding Hirschsprung's disease | 35852 | J50z200 | Stenosis of intestine NOS |
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| 4816 J527200 Megacolon NOS 29179 J572200 Stenosis of rectum and anus NOS 6363 J51200 Stenosis of rectum and anus NOS 6363 J61.00 Cirnosis and chronic liver disease 9029 J614100 Chronic active hepatitis 7357 J613111 Autoimmune chronic active hepatitis 53480 J614300 Recurrent hepatitis 74257 J615.11 Portal cirnosis 96664 J615800 Juvenile portal cirnosis 5454 J615.00 Biliary cirnosis 5454 J61500 Biliary cirnosis 5454 J616000 Primary biliary cirnosis 5453 J616000 Primary biliary cirnosis 5454 J616000 Biliary cirnosis of children 5563 J61600 Biliary cirnosis of solidren 5434 J61400 Hepatic fibrosis 100592 J61400 Hepatit fibrosis 100592 J61400 Hepatit fibrosis 100592 J61400 Hepatit fibrosis <td< th=""><th>Medcode</th><th>Read Code</th><th>Description</th><th></th></td<> | Medcode | Read Code | Description | |
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| 44310J690z00Coeliac disease NOS29513J69y011Malabsorption due to intolerance to fat49191J69y200Intestinal malabsorption of protein49739J69y300Intestinal malabsorption of carbohydrate31392J69y600Intestinal malabsorption of fat31419J69y700Malabsorption - iron11934J69yz13Malabsorption syndrome NOS42715J69z.00Intestinal malabsorption NOS2773K000Nephritis, nephrosis and nephrotic syndrome108711K000111CGN - Crescentic glomerulonephritis2999K0100Nephrotic syndrome with proliferative glomerulonephritis | | | | |
| 29513J69y011Malabsorption due to intolerance to fat49191J69y200Intestinal malabsorption of protein49739J69y300Intestinal malabsorption of carbohydrate31392J69y600Intestinal malabsorption of fat31419J69y700Malabsorption - iron11934J69yz13Malabsorption syndrome NOS42715J69z.00Intestinal malabsorption NOS2773K000Nephritis, nephrosis and nephrotic syndrome108711K000111CGN - Crescentic glomerulonephritis2999K0100Nephrotic syndrome9840K010.00Nephrotic syndrome with proliferative glomerulonephritis | | | · | |
| 49191J69y200Intestinal malabsorption of protein49739J69y300Intestinal malabsorption of carbohydrate31392J69y600Intestinal malabsorption of fat31419J69y700Malabsorption - iron11934J69yz13Malabsorption syndrome NOS42715J69z.00Intestinal malabsorption NOS2773K000Nephritis, nephrosis and nephrotic syndrome108711K000111CGN - Crescentic glomerulonephritis2999K0100Nephrotic syndrome9840K010.00Nephrotic syndrome with proliferative glomerulonephritis | | | | |
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| 31392J69y600Intestinal malabsorption of fat31419J69y700Malabsorption - iron11934J69yz13Malabsorption syndrome NOS42715J69z.00Intestinal malabsorption NOS2773K000Nephritis, nephrosis and nephrotic syndrome108711K000111CGN - Crescentic glomerulonephritis2999K0100Nephrotic syndrome9840K010.00Nephrotic syndrome with proliferative glomerulonephritis | | - | | |
| 31419J69y700Malabsorption - iron11934J69yz13Malabsorption syndrome NOS42715J69z.00Intestinal malabsorption NOS2773K000Nephritis, nephrosis and nephrotic syndrome108711K000111CGN - Crescentic glomerulonephritis2999K0100Nephrotic syndrome9840K010.00Nephrotic syndrome with proliferative glomerulonephritis | | | | |
| 11934J69yz13Malabsorption syndrome NOS42715J69z.00Intestinal malabsorption NOS2773K000Nephritis, nephrosis and nephrotic syndrome108711K000111CGN - Crescentic glomerulonephritis2999K0100Nephrotic syndrome9840K010.00Nephrotic syndrome with proliferative glomerulonephritis | 31392 | | · · · · · · · · · · · · · · · · · · · | |
| 42715J69z.00Intestinal malabsorption NOS2773K000Nephritis, nephrosis and nephrotic syndrome108711K000111CGN - Crescentic glomerulonephritis2999K0100Nephrotic syndrome9840K010.00Nephrotic syndrome with proliferative glomerulonephritis | | | | |
| 2773K000Nephritis, nephrosis and nephrotic syndrome108711K000111CGN - Crescentic glomerulonephritis2999K0100Nephrotic syndrome9840K010.00Nephrotic syndrome with proliferative glomerulonephritis | 11934 | J69yz13 | Malabsorption syndrome NOS | |
| 108711K000111CGN - Crescentic glomerulonephritis2999K0100Nephrotic syndrome9840K010.00Nephrotic syndrome with proliferative glomerulonephritis | 42715 | J69z.00 | | |
| 2999K0100Nephrotic syndrome9840K010.00Nephrotic syndrome with proliferative glomerulonephritis | 2773 | КООО | Nephritis, nephrosis and nephrotic syndrome | |
| 9840 K010.00 Nephrotic syndrome with proliferative glomerulonephritis | 108711 | K000111 | CGN - Crescentic glomerulonephritis | |
| | 2999 | K0100 | Nephrotic syndrome | |
| 1002 K011.00 Neghaptic conductors with recent parts of the latter | 9840 | K010.00 | Nephrotic syndrome with proliferative glomerulonephritis | |
| 1803 KU11.00 INEPHROTIC SYNOROME WITH MEMORANOUS glomerulonephritis | 1803 | K011.00 | Nephrotic syndrome with membranous glomerulonephritis | |
| 99644 K012.00 Nephrotic syndrome+membranoproliferative glomerulonephritis | 99644 | K012.00 | Nephrotic syndrome+membranoproliferative glomerulonephritis | |
| 29634 K013.00 Nephrotic syndrome with minimal change glomerulonephritis | 29634 | K013.00 | Nephrotic syndrome with minimal change glomerulonephritis | |
| 23913 K014.00 Nephrotic syndrome, minor glomerular abnormality | 23913 | K014.00 | Nephrotic syndrome, minor glomerular abnormality | |

| Medcode | Read Code | Description |
|----------------|--------------|--|
| 22852 | K015.00 | Nephrotic syndrome, focal and segmental glomerular lesions |
| 21947 | K017.00 | Nephrotic syn difus mesangial prolifertiv glomerulonephritis |
| 50472 | K018.00 | Nephrotic syn, difus endocapilary proliftv glomerulonephritis |
| 21989 | K019.00 | Nephrotic syn, diffuse mesangiocapillary glomerulonephritis |
| 56987 | K01A.00 | Nephrotic syndrome, dense deposit disease |
| 17365 | K01B.00 | Nephrotic syndrome, diffuse crescentic glomerulonephritis |
| 108816 | K01x.00 | Nephrotic syndrome in diseases EC |
| 47922 | K01x000 | Nephrotic syndrome in amyloidosis |
| 2471 | K01x100 | Nephrotic syndrome in diabetes mellitus |
| 99201 | K01x200 | Nephrotic syndrome in malaria |
| 58750 | K01x300 | Nephrotic syndrome in polyarteritis nodosa |
| 47672 | K01x400 | Nephrotic syndrome in systemic lupus erythematosus |
| 94373 | K01y.00 | Nephrotic syndrome with other pathological kidney lesions |
| 27427 | K01z.00 | Nephrotic syndrome NOS |
| 7804 | K0200 | Chronic glomerulonephritis |
| 10647 | K0211 | Nephritis - chronic |
| 11875 | K0212 | Nephropathy - chronic |
| 60960 | K02y.00 | Other chronic glomerulonephritis |
| 97758 | , K02y000 | Chronic glomerulonephritis + diseases EC |
| 4669 | K02y200 | Chronic focal glomerulonephritis |
| 63615 | K02yz00 | Other chronic glomerulonephritis NOS |
| 15097 | K02z.00 | Chronic glomerulonephritis NOS |
| 33580 | K0300 | Nephritis and nephropathy unspecified |
| 4850 | K0311 | Nephritis and nephropathy unspecified |
| 11873 | K0312 | Nephropathy, unspecified |
| 107814 | K032200 | Focal glomerulon + focal recurr macroscop glomerulonephritis |
| 24384 | K032400 | Familial glomerulonephritis in Alport's syndrome |
| 67193 | K032y00 | Nephritis unsp+OS membranoprolif glomerulonephritis lesion |
| 50305 | K032y11 | Hypocomplementaemic persistent glomerulonephritis NEC |
| 36342 | K032y11 | Mesangioproliferative glomerulonephritis NEC |
| 41881 | K032y13 | Mesangiocapillary glomerulonephritis NEC |
| 94350 | K032z00 | Nephritis unsp+membranoprolif glomerulonephritis lesion NOS |
| 36125 | K03U.00 | Unspecif nephr synd, diff concentric glomerulonephritis |
| 62520 | K03W.00 | Unsp nephrit synd, diff endocap prolif glomerulonephritis |
| 30301 | K03X.00 | Unsp nephrit synd, diff mesang prolif glomerulonephritis |
| 5182 | K03z.00 | Unspecified glomerulonephritis NOS |
| 104981 | K052.00 | Chronic kidney disease |
| 105392 | K051.00 | Chronic kidney disease stage 1 |
| 105392 | K051.00 | Chronic kidney disease stage 1 Chronic kidney disease stage 2 |
| 350 | K052.00 | Renal failure unspecified |
| | | |
| 26220 | K0700 | Renal sclerosis unspecified |
| 22876 | K071.00 | Renal fibrosis |
| 4480 | K07z.00 | Renal sclerosis NOS |
| 29638 | K080.00 | Renal osteodystrophy |
| 34648 | K080100 | Renal dwarfism |
| 66062 34637 | K080300 | Renal rickets |
| J/637 | K080z00 | Renal osteodystrophy NOS |

| 30310K081.00Nephrogenic diabetes insipidus110481K081000Acquired nephrogenic diabetes insipidus41013K089300Renal tubular acidosis110983K089400Renal tubular acidosis110983K089400Hyperkaleemic renal tubular acidosis111100K089400Hyperkaleemic renal tubular acidosis111100K089400Unilateral small kidney43919K090.00Unilateral small kidney105369K090100Unilateral small kidney63374K091.00Bilateral small kidneys63364K0A2100Recur+persist haematuria, focal+segmental glomerulan lesions63317K02200Recur+persist haematuria df mesangiocapilary glomerulonephritis60856K0A2700Recur+persist haematuria df mesangiocapilary glomerulonephritis60856K0A2700Recur+persist haematuria dfus crescentic glomerulonephritis60857K0A3000Chronic nephritic syndrome60857K0A3000Chronic nephritic syndrome, minor glomerular abnormality40413K0A3000Chronic nephritic syndrome, dense deposit disease60857K0A3000Chronic nephritic syndrome, dense deposit disease60857K0A3000Chronic nephritic syndrome, dense deposit disease61988K0A5000Hereditary nephropathy NEC, dense deposit disease62958K0A5000Hereditary nephropathy NEC, dense deposit disease63950K0A5000Hereditary nephropathy NEC, dense deposit disease64951K0A5000Hereditary nephropathy NEC, dense deposit | Medcode | Read Code | Description | |
|---|---------|-----------|--|--|
| 110481 K081000 Acquired nephrogenic diabetes insipidus 41013 K08y300 Renal function impairment with growth failure 5072 K08y400 Renal function impairment with growth failure 5072 K08y400 Renal tubular acidasis 111100 K08y411 Renal acidaemia 1111300 K08y600 Hyperkalaemic renal tubular acidosis 48475 K08y611 Type IV renal tubular acidosis 48475 K08y600 Unilateral small kidney 105369 K090100 Unilateral small kidney 68364 K0A2000 Recur+persist haematuria, focal+segmental glomerular lesions 61317 K0A200 Recur+persist haematuria df mesangial prolif glomerulonephritis 60856 K0A2000 Recur+persist haematuria df mesangial prolif glomerulonephritis 60856 K0A3000 Chronic nephritic syndrome 60555 K0A3000 Chronic nephritic syndrome, dense deposit disease 60857 K0A3000 Chronic nephritic syndrome, dense deposit disease 60858 K0A3000 Chronic nephritic syndrome, dense deposit disease 60198 K | | | | |
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| 5072K08y400Renal tubular acidosis110981K08y412Renal tubular acidosis111100K08yB00Hyperkalaemic renal tubular acidosis111100K08yB11Type IV renal tubular acidosis48475K08y111Renal acidaemia48475K08y111Renal acidaemia48475K090.00Unilateral small kidney105369K090100Bilateral small kidney with contralateral hypertrophy83774K091.00Bilateral small kidneys68364K0A2100Recur+persist haematuria focal+segmental glomerular lesions61317K0A2200Recur+persist haematuria difus membranous glomerulonephritis60484K0A200Recur+persist haematuria difus crescentic glomerulonephritis60555K0A3000Chronic nephritic syndrome60505K0A3000Chronic nephritic syndrome, ninor glomerular abnormality40413K0A3000Chronic nephritic syndrome, dense deposit disease60575K0A3000Chronic nephritic syndrome60587K0A3000Chronic nephritic syndrome60587K0A3000Chronic nephritic syndrome60587K0A3000Hereditary nephropathy NEC, finar glomerular abnormality41238K0A5000Hereditary nephropathy NEC, finar glomerular abnormality41239K0A500Hereditary nephropathy NEC, finar glomerular abnormality41230K0A500Hereditary nephropathy NEC, finar glomerular abnormality41238K0A500Hereditary nephropathy, NEC, focal+segment glomerularephritis9138K0 | 41013 | | | |
| 110983K08y412Renal tubular acidaemia1111300K08y600Hyperkalaemic renal tubular acidosis1111509K08y111Type IV renal tubular acidosis48475K08y111Renal acidaemia43919K090.00Unilateral small kidney105369K090100Bilateral small kidney with contralateral hypertrophy38774K091.00Bilateral small kidneys63844K0A2100Recur+persist haematuria, focal+segmental glomerular lesions61317K0A2200Recur+persist haematuria difus membranous glomerulonephritis60844K0A2300Recur+persist haematuria difus crescentic glomerulonephritis60856K0A2700Recur+persist haematuria difus crescentic glomerulonephritis60856K0A3000Chronic nephritic syndrome, minor glomerular abnormality40413K0A3000Chronic nephritic syndrome, dense deposit disease60857K0A3000Chronic nephritic syndrifus crescentic glomerulonephritis6198K0A3000Chronic nephritic syndrifus crescentic glomerulan abnormality41230K0A5000Hereditary nephropathy NEC, focal+segment al glomerular lesion41231K0A5000Hereditary nephropathy NEC, dense deposit disease60857K0A3000Hereditary nephropathy NEC, dense deposit disease62980K0A5000Hereditary nephropathy NEC, dense deposit disease62980K0A5000Hereditary nephropathy NEC, dense deposit disease62980K0A5000Hereditary nephropathy NEC, dense deposit disease62980K082.00Rena tubulo-in | 5072 | | | |
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| 45904K0B2.00Ren tub-interst disordr/blood dis+disordr inv immune mech67261K0B4.00Ren tub-interstil disordr/systemc connectv tiss disorder41148K0B4000Renal tubulo-interstilial disorder in SLE48057K0B5.00Renal tubulo-interstilial disordrs in transplant rejectn41159K0C1.00Nephropathy induced by other drugs meds and biologl substncs57784K0C2.00Nephropathy induced by unspec drug medicament or biol subs50893K0C4.00Toxic nephropathy, not elsewhere classified107027K0G00Sickle cell nephropathy107765K0J00Renal disorders in systemic disease53944K10y.00Pyelonephritis and pyonephrosis unspecified95710K10300Pyelonephrosis17778K111.00Hydronephrosis17778K112.00Hydronephrosis with renal and ureteral calculous obstruction10410K113.00Hydronephrosis with pelviureteric junction obstruction | 64622 | | | |
| 67261K0B4.00Ren tub-interstitl disordr/systemc connectv tiss disorder41148K0B4000Renal tubulo-interstitial disorder in SLE48057K0B5.00Renal tubulo-interstitial disordrs in transplant rejectn41159K0C1.00Nephropathy induced by other drugs meds and biologl substncs57784K0C2.00Nephropathy induced by unspec drug medicament or biol subs50893K0C4.00Toxic nephropathy, not elsewhere classified107027K0G.00Sickle cell nephropathy107765K0J.00Renal disorders in systemic disease53944K10y.00Pyelonephritis and pyonephrosis unspecified95710K11.00Hydronephrosis17778K111.00Hydronephrosis with renal and ureteral calculous obstruction10410K113.00Hydronephrosis with ureteropelvic junction obstruction8522K113.11Hydronephrosis with pelviureteric junction obstruction | 45904 | K0B2.00 | Ren tub-interst disordr/blood dis+disordr inv immune mech | |
| 41148K0B4000Renal tubulo-interstitial disorder in SLE48057K0B5.00Renal tubulo-interstitial disorder in transplant rejectn41159K0C1.00Nephropathy induced by other drugs meds and biologl substncs57784K0C2.00Nephropathy induced by unspec drug medicament or biol subs50893K0C4.00Toxic nephropathy, not elsewhere classified107027K0G00Sickle cell nephropathy107765K0J00Renal disorders in systemic disease53944K10y.00Pyelonephritis and pyonephrosis unspecified95710K10300Pyelonephritis in diseases EC3277K1100Hydronephrosis17778K112.00Hydronephrosis with renal and ureteral calculous obstruction10410K113.00Hydronephrosis with ureteropelvic junction obstruction | 67261 | K0B4.00 | | |
| 41159K0C1.00Nephropathy induced by other drugs meds and biologl substncs57784K0C2.00Nephropathy induced by unspec drug medicament or biol subs50893K0C4.00Toxic nephropathy, not elsewhere classified107027K0G00Sickle cell nephropathy107765K0J00Renal disorders in systemic disease53944K10y.00Pyelonephritis and pyonephrosis unspecified95710K10y300Pyelonephritis in diseases EC3277K11.00Hydronephrosis17778K111.00Hydronephrosis with renal and ureteral calculous obstruction10410K113.00Hydronephrosis with ureteropelvic junction obstruction8522K113.11Hydronephrosis with pelviureteric junction obstruction | 41148 | K0B4000 | Renal tubulo-interstitial disorder in SLE | |
| 57784K0C2.00Nephropathy induced by unspec drug medicament or biol subs50893K0C4.00Toxic nephropathy, not elsewhere classified107027K0G00Sickle cell nephropathy107765K0J00Renal disorders in systemic disease53944K10y.00Pyelonephritis and pyonephrosis unspecified95710K10y300Pyelonephritis in diseases EC3277K1100Hydronephrosis17778K111.00Hydronephrosis with renal and ureteral calculous obstruction10410K113.00Hydronephrosis with ureteropelvic junction obstruction8522K113.11Hydronephrosis with pelviureteric junction obstruction | 48057 | K0B5.00 | Renal tubulo-interstitial disordrs in transplant rejectn | |
| 50893K0C4.00Toxic nephropathy, not elsewhere classified107027K0G00Sickle cell nephropathy107765K0J00Renal disorders in systemic disease53944K10y.00Pyelonephritis and pyonephrosis unspecified95710K10y300Pyelonephritis in diseases EC3277K1100Hydronephrosis17778K111.00Hydroureteronephrosis27592K112.00Hydronephrosis with renal and ureteral calculous obstruction10410K113.00Hydronephrosis with ureteropelvic junction obstruction8522K113.11Hydronephrosis with pelviureteric junction obstruction | 41159 | K0C1.00 | Nephropathy induced by other drugs meds and biologl substncs | |
| 50893K0C4.00Toxic nephropathy, not elsewhere classified107027K0G00Sickle cell nephropathy107765K0J00Renal disorders in systemic disease53944K10y.00Pyelonephritis and pyonephrosis unspecified95710K10y300Pyelonephritis in diseases EC3277K1100Hydronephrosis17778K111.00Hydroureteronephrosis27592K112.00Hydronephrosis with renal and ureteral calculous obstruction10410K113.00Hydronephrosis with ureteropelvic junction obstruction8522K113.11Hydronephrosis with pelviureteric junction obstruction | 57784 | K0C2.00 | Nephropathy induced by unspec drug medicament or biol subs | |
| 107765K0J00Renal disorders in systemic disease53944K10y.00Pyelonephritis and pyonephrosis unspecified95710K10y300Pyelonephritis in diseases EC3277K1100Hydronephrosis17778K111.00Hydroureteronephrosis27592K112.00Hydronephrosis with renal and ureteral calculous obstruction10410K113.00Hydronephrosis with ureteropelvic junction obstruction8522K113.11Hydronephrosis with pelviureteric junction obstruction | 50893 | K0C4.00 | | |
| 53944K10y.00Pyelonephritis and pyonephrosis unspecified95710K10y300Pyelonephritis in diseases EC3277K11.00Hydronephrosis17778K111.00Hydroureteronephrosis27592K112.00Hydronephrosis with renal and ureteral calculous obstruction10410K113.00Hydronephrosis with ureteropelvic junction obstruction8522K113.11Hydronephrosis with pelviureteric junction obstruction | 107027 | K0G00 | Sickle cell nephropathy | |
| 95710K10y300Pyelonephritis in diseases EC3277K1100Hydronephrosis17778K111.00Hydroureteronephrosis27592K112.00Hydronephrosis with renal and ureteral calculous obstruction10410K113.00Hydronephrosis with ureteropelvic junction obstruction8522K113.11Hydronephrosis with pelviureteric junction obstruction | 107765 | K0J00 | Renal disorders in systemic disease | |
| 3277K11.00Hydronephrosis17778K111.00Hydroureteronephrosis27592K112.00Hydronephrosis with renal and ureteral calculous obstruction10410K113.00Hydronephrosis with ureteropelvic junction obstruction8522K113.11Hydronephrosis with pelviureteric junction obstruction | 53944 | K10y.00 | Pyelonephritis and pyonephrosis unspecified | |
| 17778K111.00Hydroureteronephrosis27592K112.00Hydronephrosis with renal and ureteral calculous obstruction10410K113.00Hydronephrosis with ureteropelvic junction obstruction8522K113.11Hydronephrosis with pelviureteric junction obstruction | 95710 | K10y300 | Pyelonephritis in diseases EC | |
| 27592K112.00Hydronephrosis with renal and ureteral calculous obstruction10410K113.00Hydronephrosis with ureteropelvic junction obstruction8522K113.11Hydronephrosis with pelviureteric junction obstruction | 3277 | K1100 | Hydronephrosis | |
| 10410K113.00Hydronephrosis with ureteropelvic junction obstruction8522K113.11Hydronephrosis with pelviureteric junction obstruction | 17778 | K111.00 | Hydroureteronephrosis | |
| 8522 K113.11 Hydronephrosis with pelviureteric junction obstruction | 27592 | K112.00 | Hydronephrosis with renal and ureteral calculous obstruction | |
| | 10410 | K113.00 | Hydronephrosis with ureteropelvic junction obstruction | |
| 28159 K11X.00 Hydronephrosis with ureteral stricture NEC | 8522 | K113.11 | Hydronephrosis with pelviureteric junction obstruction | |
| | 28159 | K11X.00 | Hydronephrosis with ureteral stricture NEC | |

| Medcode | Read Code | Description |
|---------|-----------|---|
| 27302 | K11z.00 | Hydronephrosis NOS |
| 104079 | K132.11 | Acquired renal cystic disease |
| 31841 | K135.00 | Hydroureter |
| 40049 | K13y700 | Megaloureter - acquired |
| 31097 | K16X.00 | Uninhibited neuropathic bladder, NEC |
| 3354 | K274.00 | Peyronie's disease |
| 73156 | K562.12 | Atresia of vagina |
| 27648 | K562300 | Atresia of vagina |
| 38312 | L162.12 | Nephropathy NOS in pregnancy without hypertension |
| 61935 | L185.11 | Congenital heart disease in pregnancy |
| 107689 | M12A400 | Juvenile spring eruption |
| 50627 | M142.00 | Juvenile dermatitis herpetiformis |
| 17810 | M142.11 | Juvenile pemphigoid |
| 53763 | M144z00 | Pemphigus NOS |
| 31667 | M145300 | Acquired epidermolysis bullosa |
| 58116 | M145z00 | Pemphigoid NOS |
| 4125 | M154.00 | Lupus erythematosus |
| 33449 | M154000 | Lupus erythematosus chronicus |
| 2667 | M154100 | Discoid lupus erythematosus |
| 40797 | M154200 | Lupus erythematosus migrans |
| 65391 | M154300 | Lupus erythematosus nodularis |
| 46148 | M154400 | Lupus erythematosus profundus |
| 44984 | M154500 | Lupus erythematosus tumidus |
| 63955 | M154600 | Lupus erythematosus unguium mutilans |
| 7522 | M154z00 | Lupus erythematosus NOS |
| 36466 | M15y200 | Pityriasis rubra (Hebra) |
| 476 | M160.00 | Psoriatic arthropathy |
| 96880 | M160.11 | Psoriatic arthritis |
| 26368 | M160000 | Psoriasis spondylitica |
| 12500 | M160z00 | Psoriatic arthropathy NOS |
| 162 | M161000 | Psoriasis unspecified |
| 30272 | M161200 | Psoriasis circinata |
| 42008 | M161300 | Psoriasis diffusa |
| 21633 | M161500 | Psoriasis geographica |
| 65839 | M161700 | Psoriasis gyrata |
| 48257 | M161800 | Psoriasis inveterata |
| 60169 | M161900 | Psoriasis ostracea |
| 24136 | M161C00 | Psoriasis punctata |
| 30210 | M161F00 | Psoriasis vulgaris |
| 172 | M161z00 | Psoriasis NOS |
| 107491 | M162111 | Pityriasis lichenoides et varioliformis acuta |
| 107401 | M162311 | Pityriasis lichenoides chronica |
| 36838 | M163.11 | Pityriasis circinata |
| 48641 | M165200 | Pityriasis streptogenes |
| 37538 | M210500 | Sclerodactyly |
| 23639 | M211600 | Acquired ichthyosis |
| 108683 | M21yD00 | Hemifacial atrophy |

| Medcode | Read Code | Description | |
|---------|-----------|---|-----|
| 1037 | M240.00 | Alopecia | |
| 976 | M240000 | Alopecia unspecified | |
| 685 | M240100 | Alopecia areata | |
| 52294 | M240600 | Alopecia senilis | |
| 50780 | M240700 | Alopecia febrilis | |
| 43109 | M240900 | Alopecia disseminata | |
| 48735 | M240C00 | Alopecia follicularis | |
| 48719 | M240H00 | Alopecia seborrhoeica | |
| 40947 | M240J00 | Alopecia hereditaria | |
| 36298 | M250.11 | Hypohidrosis | |
| 975 | M295100 | Vitiligo | |
| 7859 | M2y4800 | Juvenile plantar dermatosis | |
| 72688 | Myu1.00 | [X]Bullous disorders | |
| 7871 | N000.00 | Systemic lupus erythematosus | |
| 29519 | N000300 | Systemic lupus erythematosus with organ or sys involv | |
| 99435 | N000500 | Neonatal lupus erythematosus | |
| 42719 | N000z00 | Systemic lupus erythematosus NOS | |
| 3670 | N001.00 | Scleroderma | |
| 28417 | N001.12 | Systemic sclerosis | |
| 44141 | N001000 | Progressive systemic sclerosis | |
| 110174 | N001200 | Systemic sclerosis induced by drugs and chemicals | |
| 2360 | N002.00 | Sicca (Sjogren's) syndrome | |
| 32649 | N003000 | Juvenile dermatomyositis | |
| 15511 | N004.00 | Polymyositis | |
| 58818 | N012011 | Behcet's syndrome arthropathy | |
| 27603 | N0400 | Rheumatoid arthritis and other inflammatory polyarthropathy | |
| 844 | N040.00 | Rheumatoid arthritis | |
| 44743 | N040000 | Rheumatoid arthritis of cervical spine | |
| 107963 | N040300 | Rheumatoid arthritis of sternoclavicular joint | |
| 100914 | N040400 | Rheumatoid arthritis of acromioclavicular joint | |
| 59738 | N040500 | Rheumatoid arthritis of elbow | |
| 63365 | N040600 | Rheumatoid arthritis of distal radio-ulnar joint | |
| 48832 | N040700 | Rheumatoid arthritis of wrist | |
| 42299 | N040800 | Rheumatoid arthritis of MCP joint | |
| 41941 | N040900 | Rheumatoid arthritis of PIP joint of finger | |
| 63198 | N040A00 | Rheumatoid arthritis of DIP joint of finger | |
| 49067 | N040B00 | Rheumatoid arthritis of hip | |
| 100776 | N040C00 | Rheumatoid arthritis of sacro-iliac joint | |
| 50863 | N040D00 | Rheumatoid arthritis of knee | |
| 107791 | N040E00 | Rheumatoid arthritis of tibio-fibular joint | |
| 51239 | N040F00 | Rheumatoid arthritis of ankle | |
| 73619 | N040G00 | Rheumatoid arthritis of subtalar joint | |
| 70658 | N040H00 | Rheumatoid arthritis of talonavicular joint | |
| 71784 | N040J00 | Rheumatoid arthritis of other tarsal joint | |
| 51238 | N040K00 | Rheumatoid arthritis of 1st MTP joint | |
| 99414 | N040L00 | Rheumatoid arthritis of lesser MTP joint | |
| 107112 | N040M00 | Rheumatoid arthritis of IP joint of toe | |
| | • | · · · | 272 |

| 31054 NO 31054 NO 46436 NO 37431 NO 4186 NO 50644 NO 36276 NO 36276 NO 27557 NO 7196 NO 42405 NO 31181 NO 28456 NO 31360 NO 31724 NO 31724 NO 31724 NO 31724 NO 31724 NO 97623 NO 97623 NO 2184 N1 44026 N1 37892 N1 23390 N1 51550 N1 51691 N1 40333 N1 62875 N1 | 040N00 040S00 040S00 042100 042100 042200 043000 043000 043000 043000 043000 043000 043000 043000 043000 043000 043000 045000 045100 045000 045000 045000 045100 045000 045000 04511 065.11 082N00 093.11 00.00 00.00 00.00 00.00 | Rheumatoid vasculitisRheumatoid arthritis - multiple jointRheumatoid arthritis - multiple jointRheumatoid arthritis - multiple jointRheumatoid arthropathy + visceral/systemic involvement NOSJuvenile rheumatoid arthritis - Still's diseaseJuvenile rheumatoid arthropathy unspecifiedMonarticular juvenile rheumatoid arthritisJuvenile rheumatoid arthritis NOSOther juvenile arthritisJuvenile ankylosing spondylitisJuvenile arthritis in psoriasisJuvenile arthritis in psoriasisJuvenile arthritis in ulcerative colitisJuvenile rheumatoid arthritisMuvenile rheumatoid arthritisPolyarthropathy NECPolyarthritisNeuromuscular dislocation of the hipHench - Rosenberg syndromeAnkylosing spondylitisOther inflammatory spondylopathies |
|---|--|--|
| 46436 NO 37431 NO 37431 NO 4186 NO 50644 NO 36276 NO 36276 NO 27557 NO 7196 NO 42405 NO 31181 NO 28456 NO 31360 NO 31360 NO 31724 NO 31724 NO 31724 NO 64871 NO 97623 NO 2184 N1 44026 N1 37892 N1 23390 N1 51550 N1 51691 N1 40333 N1 62875 N1 | 042100 042200 043.00 043.00 04300 04300 043200 045.00 045.00 045100 045200 045300 045500 045500 045500 045500 045511 065211 065211 082N00 093.11 00.00 | Rheumatoid lung diseaseRheumatoid arthropathy + visceral/systemic involvement NOSJuvenile rheumatoid arthritis - Still's diseaseJuvenile rheumatoid arthropathy unspecifiedMonarticular juvenile rheumatoid arthritisJuvenile rheumatoid arthritis NOSOther juvenile arthritisJuvenile ankylosing spondylitisJuvenile arthritis in psoriasisJuvenile arthritis in Crohn's diseaseJuvenile arthritis in ulcerative colitisJuvenile rheumatoid arthritisPolyarthropathy NECPolyarthritisNeuromuscular dislocation of the hipHench - Rosenberg syndromeAnkylosing spondylitisOther inflammatory spondylopathies |
| 37431 NO 4186 NO 50644 NO 36276 NO 36276 NO 27557 NO 7196 NO 42405 NO 31181 NO 28456 NO 31360 NO 31724 NO 97623 NO 97623 NO 2184 N1 44026 N1 37892 N1 51550 N1 51691 N1 40333 N1 62875 N1 | 042z00 043.00 043.00 043000 043200 045.00 045100 045200 045200 045500 045500 045500 045500 045500 045500 045500 045500 045500 045500 04511 065211 082N00 093.11 00.00 | Rheumatoid arthropathy + visceral/systemic involvement NOSJuvenile rheumatoid arthritis - Still's diseaseJuvenile rheumatoid arthropathy unspecifiedMonarticular juvenile rheumatoid arthritisJuvenile rheumatoid arthritis NOSOther juvenile arthritisJuvenile ankylosing spondylitisJuvenile seronegative polyarthritisJuvenile arthritis in psoriasisJuvenile arthritis in crohn's diseaseJuvenile rheumatoid arthritisJuvenile arthritis in ulcerative colitisJuvenile rheumatoid arthritisRheumatoid lungPolyarthropathy NECPolyarthritisNeuromuscular dislocation of the hipHench - Rosenberg syndromeAnkylosing spondylitisOther inflammatory spondylopathies |
| 4186 NO 50644 NO 36276 NO 27557 NO 7196 NO 42405 NO 42405 NO 31181 NO 28456 NO 12575 NO 71083 NO 31360 NO 31724 NO 31724 NO 7454 NO 64871 NO 97623 NO 2184 N1 44026 N1 37892 N1 23390 N1 51550 N1 51691 N1 40333 N1 62875 N1 | 043.00 043000 043000 043000 043200 043200 045.00 045000 045100 045100 045200 045300 045300 045500 045500 045500 045500 045211 082N00 093.11 .00.00 .0y.00 | Juvenile rheumatoid arthritis - Still's disease Juvenile rheumatoid arthropathy unspecified Monarticular juvenile rheumatoid arthritis Juvenile rheumatoid arthritis NOS Other juvenile arthritis Juvenile ankylosing spondylitis Juvenile ankylosing spondylitis Juvenile seronegative polyarthritis Juvenile arthritis in psoriasis Juvenile arthritis in Crohn's disease Juvenile arthritis in Crohn's disease Juvenile arthritis in ulcerative colitis Juvenile rheumatoid arthritis Rheumatoid lung Polyarthropathy NEC Polyarthritis Neuromuscular dislocation of the hip Hench - Rosenberg syndrome Ankylosing spondylitis Other inflammatory spondylopathies |
| 50644 NO 36276 NO 27557 NO 7196 NO 42405 NO 31181 NO 28456 NO 12575 NO 71083 NO 31360 NO 31724 NO 7454 NO 1670 NO 97623 NO 2184 N1 44026 N1 37892 N1 51550 N1 51691 N1 40333 N1 62875 N1 | 043000 043300 043200 043200 043200 045000 045000 045000 045000 045000 045000 045200 045200 045300 045500 045500 045500 045500 045500 045500 045500 045500 045500 045500 045500 045500 045500 045500 045500 045500 045500 045511 065211 082N00 093.11 .00.00 .0y.00 | Juvenile rheumatoid arthropathy unspecified Monarticular juvenile rheumatoid arthritis Juvenile rheumatoid arthritis NOS Other juvenile arthritis Juvenile anthritis Juvenile anthritis spondylitis Juvenile arthritis in psoriasis Juvenile arthritis in Crohn's disease Juvenile arthritis in ulcerative colitis Juvenile rheumatoid arthritis Rheumatoid lung Polyarthropathy NEC Polyarthritis Neuromuscular dislocation of the hip Hench - Rosenberg syndrome Ankylosing spondylitis Other inflammatory spondylopathies |
| 36276 NO 27557 NO 7196 NO 42405 NO 31181 NO 28456 NO 12575 NO 71083 NO 31360 NO 31724 NO 7454 NO 64871 NO 97623 NO 2184 N1 44026 N1 37892 N1 23390 N1 51691 N1 40333 N1 62875 N1 | 043300 043200 043200 045.00 045000 045100 045100 045200 045300 045500 045500 045511 05211 082N00 093.11 00.00 09.00 | Monarticular juvenile rheumatoid arthritisJuvenile rheumatoid arthritis NOSOther juvenile arthritisJuvenile ankylosing spondylitisJuvenile seronegative polyarthritisJuvenile arthritis in psoriasisJuvenile arthritis in Crohn's diseaseJuvenile arthritis in ulcerative colitisJuvenile rheumatoid arthritisRheumatoid lungPolyarthropathy NECPolyarthritisNeuromuscular dislocation of the hipHench - Rosenberg syndromeAnkylosing spondylitisOther inflammatory spondylopathies |
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| 7196 NO 42405 NO 31181 NO 28456 NO 12575 NO 71083 NO 31360 NO 31724 NO 7454 NO 1670 NO 64871 NO 97623 NO 2184 N1 44026 N1 37892 N1 51550 N1 51691 N1 40333 N1 62875 N1 | 045.00 045000 045100 045200 045300 045300 045500 045500 045500 065.11 065.11 082N00 093.11 00.00 | Other juvenile arthritisJuvenile ankylosing spondylitisJuvenile seronegative polyarthritisJuvenile arthritis in psoriasisJuvenile arthritis in Crohn's diseaseJuvenile arthritis in ulcerative colitisJuvenile rheumatoid arthritisRheumatoid lungPolyarthropathy NECPolyarthritisNeuromuscular dislocation of the hipHench - Rosenberg syndromeAnkylosing spondylitisOther inflammatory spondylopathies |
| 42405 NO 31181 NO 28456 NO 12575 NO 71083 NO 31360 NO 31360 NO 31724 NO 7454 NO 64871 NO 97623 NO 2184 N1 44026 N1 37892 N1 51550 N1 51691 N1 40333 N1 62875 N1 | 045000 045100 045200 045300 045400 045500 04500 04500 04500 065.11 065211 082N00 093.11 00.00 093.00 | Juvenile ankylosing spondylitis Juvenile seronegative polyarthritis Juvenile arthritis in psoriasis Juvenile arthritis in Crohn's disease Juvenile arthritis in ulcerative colitis Juvenile rheumatoid arthritis Rheumatoid lung Polyarthropathy NEC Polyarthritis Neuromuscular dislocation of the hip Hench - Rosenberg syndrome Ankylosing spondylitis Other inflammatory spondylopathies |
| 31181 NO 28456 NO 12575 NO 71083 NO 31360 NO 31724 NO 31724 NO 7454 NO 1670 NO 64871 NO 97623 NO 2184 N1 44026 N1 37892 N1 51550 N1 51691 N1 40333 N1 62875 N1 | 045100 045200 045300 045400 045500 045500 045500 065.11 065.11 065211 082N00 093.11 00.00 | Juvenile seronegative polyarthritis Juvenile arthritis in psoriasis Juvenile arthritis in Crohn's disease Juvenile arthritis in ulcerative colitis Juvenile rheumatoid arthritis Rheumatoid lung Polyarthropathy NEC Polyarthropathy NEC Polyarthritis Neuromuscular dislocation of the hip Hench - Rosenberg syndrome Ankylosing spondylitis Other inflammatory spondylopathies |
| 28456 NO 12575 NO 71083 NO 31360 NO 31360 NO 31724 NO 7454 NO 7454 NO 64871 NO 97623 NO 2184 N1 44026 N1 37892 N1 51550 N1 51691 N1 40333 N1 62875 N1 | 045200 045300 045400 045500 04y000 065.11 065z11 082N00 093.11 00.00 093.00 | Juvenile arthritis in psoriasis Juvenile arthritis in Crohn's disease Juvenile arthritis in ulcerative colitis Juvenile rheumatoid arthritis Rheumatoid lung Polyarthropathy NEC Polyarthritis Neuromuscular dislocation of the hip Hench - Rosenberg syndrome Ankylosing spondylitis Other inflammatory spondylopathies |
| 12575 NO 71083 NO 31360 NO 31724 NO 31724 NO 7454 NO 7454 NO 1670 NO 64871 NO 97623 NO 2184 N1 44026 N1 37892 N1 51550 N1 51691 N1 40333 N1 62875 N1 | 045300 045400 045500 04y000 065.11 065z11 082N00 093.11 .00.00 .0y.00 | Juvenile arthritis in Crohn's disease Juvenile arthritis in ulcerative colitis Juvenile rheumatoid arthritis Rheumatoid lung Polyarthropathy NEC Polyarthritis Neuromuscular dislocation of the hip Hench - Rosenberg syndrome Ankylosing spondylitis Other inflammatory spondylopathies |
| 71083 NO 31360 NO 31724 NO 31724 NO 7454 NO 7454 NO 1670 NO 64871 NO 97623 NO 2184 N1 44026 N1 37892 N1 51550 N1 51691 N1 40333 N1 62875 N1 | 045400 045500 04y000 065.11 065z11 082N00 093.11 .00.00 .0y.00 | Juvenile arthritis in ulcerative colitis Juvenile rheumatoid arthritis Rheumatoid lung Polyarthropathy NEC Polyarthritis Neuromuscular dislocation of the hip Hench - Rosenberg syndrome Ankylosing spondylitis Other inflammatory spondylopathies |
| 31360 NO 31724 NO 7454 NO 7457 NO 1670 NO 64871 NO 97623 NO 2184 N1 44026 N1 37892 N1 51550 N1 51691 N1 40333 N1 62875 N1 59014 N1 | 045500 04y000 065.11 065z11 082N00 093.11 .00.00 .0y.00 | Juvenile rheumatoid arthritis Rheumatoid lung Polyarthropathy NEC Polyarthritis Neuromuscular dislocation of the hip Hench - Rosenberg syndrome Ankylosing spondylitis Other inflammatory spondylopathies |
| 31724 NO 7454 NO 1670 NO 64871 NO 97623 NO 2184 N1 44026 N1 37892 N1 51550 N1 51691 N1 40333 N1 62875 N1 | 04y000 065.11 065z11 082N00 093.11 00.00 09.00 | Rheumatoid lungPolyarthropathy NECPolyarthritisNeuromuscular dislocation of the hipHench - Rosenberg syndromeAnkylosing spondylitisOther inflammatory spondylopathies |
| 7454 NO 1670 NO 64871 NO 97623 NO 2184 N1 44026 N1 37892 N1 23390 N1 51550 N1 51691 N1 40333 N1 62875 N1 | 065.11 065z11 082N00 093.11 .00.00 .0y.00 | Polyarthropathy NEC Polyarthritis Neuromuscular dislocation of the hip Hench - Rosenberg syndrome Ankylosing spondylitis Other inflammatory spondylopathies |
| 1670 N0 64871 N0 97623 N0 2184 N1 44026 N1 37892 N1 23390 N1 51550 N1 51691 N1 40333 N1 62875 N1 | 065z11 082N00 093.11 000.00 .0y.00 | Polyarthritis Neuromuscular dislocation of the hip Hench - Rosenberg syndrome Ankylosing spondylitis Other inflammatory spondylopathies |
| 64871 NO 97623 NO 2184 N1 44026 N1 37892 N1 23390 N1 51550 N1 51691 N1 40333 N1 62875 N1 | 082N00 093.11 00.00 .0y.00 | Neuromuscular dislocation of the hip Hench - Rosenberg syndrome Ankylosing spondylitis Other inflammatory spondylopathies |
| 97623 NO 2184 N1 44026 N1 37892 N1 23390 N1 51550 N1 51691 N1 40333 N1 62875 N1 59014 N1 | 093.11 .00.00 .0y.00 | Hench - Rosenberg syndrome Ankylosing spondylitis Other inflammatory spondylopathies |
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| 44026 N1 37892 N1 23390 N1 51550 N1 51691 N1 40333 N1 62875 N1 59014 N1 | .0y.00 | Other inflammatory spondylopathies |
| 37892 N1 23390 N1 51550 N1 51691 N1 40333 N1 62875 N1 59014 N1 | | |
| 23390 N1 51550 N1 51691 N1 40333 N1 62875 N1 59014 N1 | 0yz00 | |
| 51550 N1 51691 N1 40333 N1 62875 N1 59014 N1 | | Other inflammatory spondylopathies NOS |
| 51691 N1 40333 N1 62875 N1 59014 N1 | 21.00 | Thoracic disc displacement without myelopathy |
| 40333 N1 62875 N1 59014 N1 | 29200 | Thoracic disc disorder with myelopathy |
| 62875 N1 59014 N1 | 2B100 | Thoracic disc prolapse with myelopathy |
| 59014 N1 | 2C100 | Thoracic disc prolapse with radiculopathy |
| | 35100 | Rheumatic torticollis |
| | .3y100 | Klippel's disease |
| 1408 N2 | 2000 | Polymyalgia rheumatica |
| 40319 N2 | 16211 | Pellegrini - Stieda syndrome |
| 21970 N2 | 21z312 | Osteophyte of unspecified site |
| 93927 N2 | 231400 | Polymyositis ossificans |
| 31439 N2 | 32000 | Amyotrophia NOS |
| 65405 N2 | 37300 | Pseudosarcomatous fibromatosis |
| 33474 N2 | 40.00 | Rheumatism and fibrositis unspecified |
| 35937 N2 | 40z00 | Rheumatism or fibrositis NOS |
| 96966 N2 | 48000 | Myofascial pain syndrome |
| 37298 N3 | 300 | Osteopathy/chondropathy/acquired musculoskeletal deformity |
| 54213 N3 | 807.00 | Osteopathy from poliomyelitis |
| 3528 N3 | 310.11 | Paget's disease of bone |
| 50862 N3 | 310000 | Paget's disease-cervical spine |
| 71514 N3 | 310100 | Paget's disease-thoracic spine |
| 56021 N3 | 310200 | Paget's disease-lumbar spine |
| 56578 N3 | 310300 | Paget's disease-sacrum |
| | | Paget's disease-clavicle |
| 70397 N3 | 310500 | |

| Medcode | Read Code | Description |
|---------|-----------|---|
| 63779 | N310700 | Paget's disease-humerus |
| 65387 | N310800 | Paget's disease-radius |
| 73964 | N310900 | Paget's disease-ulna |
| 95037 | N310A00 | Paget's disease-carpal bone |
| 27501 | N310D00 | Paget's disease-pelvis |
| 57905 | N310E00 | Paget's disease-femur |
| 56897 | N310F00 | Paget's disease-patella |
| 35769 | N310G00 | Paget's disease-tibia |
| 72456 | N310H00 | Paget's disease-fibula |
| 51146 | N310P00 | Paget's disease-skull |
| 66795 | N310x00 | Paget's disease-multiple sites |
| 56078 | N310y00 | Paget's disease OS |
| 37902 | N310z00 | Paget's disease NOS |
| 36725 | N320.00 | Juvenile osteochondritis of the spine |
| 50510 | N320000 | Juvenile osteochondritis of the spine, unspecified |
| 1721 | N320000 | Scheuermann's disease |
| 69739 | N320100 | Juvenile osteochondritis of the spine NOS |
| 34369 | N320200 | Juvenile osteochondritis of the hip and pelvis |
| | | · · · |
| 66495 | N321000 | Juvenile osteochondritis of the hip and pelvis, unspecified |
| 21502 | N321400 | Juvenile osteochondritis of the iliac crest |
| 94462 | N321500 | Juvenile osteochondritis of the symphysis pubis |
| 95730 | N321511 | Pierson's disease |
| 68673 | N321z00 | Juvenile osteochondritis of the hip and pelvis NOS |
| 62237 | N323.00 | Juvenile osteochondritis of the arm and hand |
| 63370 | N323.11 | Juvenile osteochondritis of the arm |
| 101671 | N323000 | Juvenile osteochondritis of the arm, unspecified |
| 39819 | N323100 | Juvenile osteochondritis of the hand, unspecified |
| 73645 | N323z00 | Juvenile osteochondritis of the arm and hand NOS |
| 33667 | N324.00 | Juvenile osteochondrosis of the leg |
| 24028 | N324000 | Juvenile osteochondrosis of the leg, unspecified |
| 35026 | N324111 | Juvenile osteochondrosis of the primary patellar centre |
| 48242 | N324300 | Juvenile osteochondrosis of the secondary patellar centre |
| 38898 | N324z00 | Juvenile osteochondrosis of the leg, NOS |
| 48042 | N325.00 | Juvenile osteochondrosis of the foot |
| 63567 | N325000 | Juvenile osteochondrosis of the foot, unspecified |
| 60589 | N325z00 | Juvenile osteochondrosis of the foot NOS |
| 50425 | N326.00 | Other juvenile osteochondroses |
| 6975 | N326200 | Juvenile osteochondritis NOS |
| 9691 | N326300 | Juvenile osteochondrosis NOS |
| 94547 | N326z00 | Juvenile osteochondroses NOS |
| 3156 | N327.00 | Osteochondritis dissecans |
| 54563 | N327000 | Osteochondritis dissecans of patella |
| 38335 | N327100 | Osteochondritis dissecans of lateral femoral condyle |
| 103515 | N327300 | Osteochondritis dissecans of the humeral head |
| 70914 | N327400 | Osteochondritis dissecans of the capitellum |
| 97447 | N327500 | Osteochondritis dissecans of the radial head |
| 97466 | N327700 | Osteochondritis dissecans of the wrist |

| Medcode | Read Code | Description |
|---------|--------------|---|
| 34206 | N327800 | Osteochondritis dissecans of the femoral head |
| 38518 | N327900 | Osteochondritis dissecans of the talus |
| 42068 | N327y00 | Osteochondritis dissecans of other site |
| 52681 | N328.00 | Juvenile osteochondrosis of spine |
| 17135 | N32z300 | Osteochondrosis NOS |
| 22861 | N32zz00 | Osteochondropathy NOS |
| 277 | N330.00 | Osteoporosis |
| 40428 | N330300 | Idiopathic osteoporosis |
| 60433 | N330900 | Osteoporosis in multiple myelomatosis |
| 31580 | N330A00 | Osteoporosis in endocrine disorders |
| 25650 | N330D00 | Osteoporosis due to corticosteroids |
| 34798 | N330z00 | Osteoporosis NOS |
| 33526 | N331300 | Osteoporosis of disuse with pathological fracture |
| 27597 | N331600 | Idiopathic osteoporosis with pathological fracture |
| 42657 | N334900 | Osteonecrosis due to drugs |
| 45737 | N334A00 | Osteonecrosis due to previous trauma |
| 58843 | N334B00 | Osteonecrosis in caisson disease |
| 69157 | N334C00 | Osteonecrosis due to haemoglobinopathy |
| 4098 | N337100 | Sudek's atrophy |
| 29734 | N33z.11 | Osteolytic lesion |
| 26864 | N33zD00 | Osteolysis |
| 22417 | N33zH00 | Osteolytic lesion |
| 53972 | N373900 | Scoliosis secondary to other treatment |
| 40041 | N374300 | Scoliosis associated with other condition |
| 64218 | N374A00 | Scoliosis in skeletal dysplasia |
| 67445 | N374C00 | Scoliosis in neurofibromatosis |
| 43192 | N374D00 | Scoliosis in connective tissue anomalies |
| 110165 | P002.00 | Hemicephaly |
| 62968 | P101000 | Chiari malformation type I |
| 72928 | P103400 | Sacral spina bifida with hydrocephalus - closed |
| 95018 | P110z00 | Unspecified spina bifida without hydrocephalus NOS |
| 71525 | P117400 | Sacral spina bifida without hydrocephalus - open |
| 69370 | P118000 | Unspecified spina bifida without hydrocephalus - closed |
| 70923 | P118400 | Sacral spina bifida without hydrocephalus - closed |
| 43593 | P11y.11 | Syringomyelocele |
| 101703 | , P11z.14 | Congenital hernia of dura mater |
| 53474 | P2013 | Congenital cerebral hernia |
| 72048 | P2014 | Congenital endaural hernia |
| 31717 | P2015 | Sinus pericranii |
| 67264 | P205.00 | Frontal encephalocele |
| 23457 | P220.00 | Agenesis of brain, part unspecified |
| 100305 | P221.00 | Aplasia of brain, part unspecified |
| 63668 | P222.00 | Hypoplasia of brain, part unspecified |
| 53723 | P223.00 | Agyria |
| 95892 | P226000 | Congenital bilateral perisylvian syndrome |
| 39724 | P227.00 | Anomalies of cerebrum |
| 40777 | P227000 | Agenesis of cerebrum |
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| Medcode | Read Code | Description |
|---------|--------------|--|
| 103611 | P227100 | Congenital hypoplasia of cerebrum |
| 111258 | P227z00 | Anomaly of cerebrum NOS |
| 32468 | P228.00 | Anomalies of corpus callosum |
| 41775 | P228000 | Congenital absence of corpus callosum |
| 39486 | P228011 | Agenesis of corpus callosum |
| 37600 | P228100 | Hypoplasia of corpus callosum |
| 103057 | P228200 | Aplasia of corpus callosum |
| 60648 | P228z00 | Anomaly of corpus callosum NOS |
| 46471 | P229.00 | Anomalies of hypothalamus |
| 28318 | P22A.00 | Anomalies of cerebellum |
| 25316 | P22A000 | Congenital absence of cerebellum |
| 54877 | P22A011 | Agenesis of cerebellum |
| 44717 | P22A100 | Hypoplasia of cerebellum |
| 91846 | P22A200 | Aplasia of cerebellum |
| 44253 | P22Az00 | Anomaly of cerebellum NOS |
| 58710 | P22z.12 | Agenesis of part of brain NEC |
| 60216 | P22z.13 | Hypoplasia of part of brain NEC |
| 9611 | P2300 | Congenital hydrocephalus |
| 40588 | P230.11 | Hydrocephauls with anomaly of aqueduct of Sylvius |
| 46120 | P230.12 | Stenosis of aqueduct of Sylvius |
| 51345 | P233.00 | Atresia of foramina of Magendie and Luschka |
| 97663 | P233.12 | Hydrocephalus with atresia of foramina of Magendie+Luschka |
| 107207 | P235.00 | X-linked hydrocephalus |
| 28353 | P23z.00 | Congenital hydrocephalus NOS |
| 39391 | P240.00 | Congenital cerebral cyst |
| 95632 | P240.11 | Congenital intracerebral cyst |
| 107846 | P240000 | Single congenital cerebral cyst |
| 109441 | P240100 | Multiple congenital cerebral cysts |
| 71733 | P240z00 | Congenital cerebral cyst NOS |
| 37474 | P241.00 | Macroencephaly |
| 33442 | P241.11 | Megalencephaly |
| 72094 | P242.00 | Macrogyria |
| 64134 | P248.00 | Congenital dilated lateral ventricles of brain |
| 50169 | P249.00 | Megalencephaly |
| 95697 | P24A.00 | Hemimegalencephaly |
| 48940 | P252.00 | Congenital tethering of spinal cord |
| 45918 | P25y200 | Congenital anomaly of spinal meninges |
| 67476 | , P2x0.00 | Agenesis of nerve, unspecified |
| 3884 | P2x4.00 | Marcus - Gunn syndrome |
| 31616 | P2x5.00 | Riley - Day syndrome |
| 43808 | P2x6.00 | Chiari malformation type I |
| 93911 | P2xz000 | Agenesis of nerve NEC |
| 39392 | P2xz100 | Congenital optic atrophy |
| 73574 | P2y00 | Unspec nervous system anomaly of brain/cord/nervous system |
| 8893 | P2y0.00 | Congenital brain anomaly |
| 36974 | P2y1.00 | Congenital spinal cord anomaly |
| 23605 | P3000 | Anophthalmos |
| | | 2)- |

| Medcode | Read Code | Description |
|---------|-----------|---|
| 68208 | P300200 | Congenital absence of eye |
| 70742 | P300z00 | Anophthalmos NOS |
| 51185 | P301.00 | Congenital cystic eyeball |
| 67756 | P303.00 | Congenital absence of eyes |
| 37557 | P30z.00 | Anophthalmos NOS |
| 26462 | P3100 | Microphthalmos |
| 72284 | P310.00 | Microphthalmos, unspecified |
| 48507 | P312.00 | Microphthalmos with other eye anomaly |
| 63439 | P31z.00 | Microphthalmos NOS |
| 23407 | P320000 | Congenital glaucoma |
| 49829 | P322000 | Congenital keratoglobus |
| 38026 | P322100 | Congenital megalocornea |
| 94176 | P322112 | Congenital macrocornea |
| 35351 | P3311 | Congenital lens anomaly |
| 299 | P330.00 | Congenital cataract, unspecified |
| 39081 | P334000 | Total congenital cataract |
| 69823 | P335.00 | Congenital aphakia |
| 62531 | P335.11 | Congenital absence of lens |
| 52652 | P336000 | Microphakia |
| 29474 | P337.00 | Congenital ectopic lens |
| 99424 | P33y100 | Congenital membranous cataract |
| 45926 | P33z.00 | Congenital cataract or lens anomaly NOS |
| 23783 | P340100 | Congenital keratoconus |
| 71732 | P341000 | Congenital corneal opacity with visual deficit |
| 66259 | P341z00 | Congenital corneal opacities NOS |
| 51768 | P342200 | Rieger's anomaly |
| 44851 | P344000 | Congenital anisocoria |
| 73673 | P344100 | Atresia of pupil |
| 59944 | P344600 | Aplasia of iris |
| 34924 | P352.00 | Congenital chorioretinal degeneration |
| 60812 | P353100 | Congenital cysts of the posterior segment |
| 62976 | P355.00 | Other congenital retinal changes |
| 50584 | P355100 | Congenital retinal fold |
| 101194 | P355200 | Congenital hypertrophy of retinal pigment epithelium |
| 25692 | P355z00 | Other congenital retinal changes NOS |
| 26024 | P356000 | Congenital optic disc coloboma |
| 49791 | P357000 | Congenital retinal aneurysm |
| 62587 | P357100 | Congenital arteriovenous malformation of retina |
| 94285 | P35z.00 | Congenital anomalies of posterior chamber NOS |
| 94280 | P3600 | Congenital anomalies of eyelid, lacrimal system and orbit |
| 31998 | P361300 | Congenital ectropion |
| 67169 | P361z00 | Congenital eyelid deformity NOS |
| 67919 | P362000 | Agenesis of cilia |
| 30468 | P364.00 | Congenital lacrimal passage anomalies |
| 97779 | P364111 | Congenital absence of punctum lacrimale |
| 50282 | P365.00 | Congenital orbit anomalies |
| 58909 | P3700 | Macrophthalmos |

| Medcode | Read Code | Description | |
|---------|-----------|--|-----|
| 25819 | P402000 | Atresia of external auditory canal | |
| 102497 | P402111 | Congenital stricture of external auditory canal | |
| 95103 | P402112 | Congenital stricture of osseous meatus | |
| 31374 | P40z.11 | Deafness due to congenital anomaly NEC | |
| 93879 | P4111 | Polyotia | |
| 42721 | P421.11 | Congenital big ears | |
| 101739 | P423100 | Congenital stenosis of eustachian tube | |
| 48936 | P42z300 | Congenital prominent auricle | |
| 35616 | P4500 | Congenital webbing of neck | |
| 99458 | P45z.00 | Congenital webbing of neck NOS | |
| 35942 | P4y4.00 | Congenital absence of chin | |
| 70982 | P4z00 | Congenital face or neck anomaly NOS | |
| 93198 | P4z0.00 | Congenital anomaly of neck NOS | |
| 37784 | P4z1.00 | Congenital anomaly of face NOS | |
| 21943 | P511 | Cardiac septal defects | |
| 23754 | P512 | Congenital heart disease, septal and bulbar anomalies | |
| 37405 | P5011 | Aortic septal defect | |
| 98893 | P5012 | Common truncus | |
| 45187 | P500.12 | Truncus arteriosus | |
| 45505 | P501.00 | Aortic septal defect | |
| 65330 | P501.12 | Aorticopulmonary septal defect | |
| 41371 | P502.11 | Truncus arteriosus | |
| 1778 | P511.00 | Double outlet right ventricle | |
| 40025 | P511300 | Taussig-Bing syndrome | |
| 65318 | P511z00 | Double outlet right ventricle NOS | |
| 4864 | P5200 | Tetralogy of Fallot | |
| 38967 | P520.00 | Tetralogy of Fallot, unspecified | |
| 23692 | P520.11 | Ventricular septal defect in Fallot's tetralogy | |
| 63046 | P52z.00 | Tetralogy of Fallot NOS | |
| 246 | P5400 | Ventricular septal defect | |
| 42132 | P540.00 | Ventricular septal defect, unspecified | |
| 67657 | P542.00 | Left ventricle to right atrial communication | |
| 34067 | P54z.00 | Ventricular septal defect NOS | |
| 3255 | P550.00 | Atrial septal defect NOS | |
| 54243 | P55z.00 | Ostium secundum atrial septal defect NOS | |
| 51053 | P561.00 | Ostium primum defect | |
| 55535 | P56z000 | Common atrium | |
| 43049 | P56z100 | Common atrioventricular canal | |
| 44896 | P56z200 | Common atrioventricular-type ventricular septal defect | |
| 46117 | P5800 | Double outlet left ventricle | |
| 48205 | P5X00 | Congenital malforms of cardiac chambers+connections unsp | |
| 5621 | P600 | Other congenital heart anomalies | |
| 39992 | P6000 | Pulmonary valve anomalies | |
| 69940 | P600.00 | Pulmonary valve anomaly, unspecified | |
| 54488 | P601000 | Hypoplasia of pulmonary valve | |
| 22778 | P602.00 | Congenital pulmonary stenosis | |
| 45452 | P602100 | Congenital fusion of pulmonary valve segment | |
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| Medcode | Read Code | Description |
|---------|-----------|--|
| 33919 | P602z00 | Congenital pulmonary stenosis NOS |
| 21851 | P603.00 | Right hypoplastic heart syndrome |
| 68982 | P603.11 | Pseudotruncus arteriosus |
| 107150 | P60z000 | Congenital insufficiency of the pulmonary valve |
| 12752 | P6100 | Congenital tricuspid atresia and stenosis |
| 69169 | P611.00 | Congenital tricuspid stenosis |
| 100065 | P61z.00 | Congenital tricuspid atresia or stenosis NOS |
| 6886 | P6300 | Congenital aortic valve stenosis |
| 8636 | P6400 | Congenital aortic valve insufficiency |
| 58734 | P640.00 | Congenital aortic valve insufficiency, unspecified |
| 3300 | P641.00 | Bicuspid aortic valve |
| 6843 | P64z.00 | Congenital aortic valve insufficiency NOS |
| 57091 | P6500 | Congenital mitral stenosis |
| 100291 | P65z.00 | Congenital mitral stenosis NOS |
| 61651 | P6600 | Congenital mitral insufficiency |
| 108457 | P6900 | Left ventricular outflow tract obstruction |
| 46825 | P6W00 | Congenital malformation of aortic and mitral valves unsp |
| 50529 | P6X00 | Congenital malformation of tricuspid valve, unspecified |
| 16539 | P6y0.00 | Subaortic stenosis |
| 9401 | P6y2.00 | Pulmonary infundibular stenosis |
| 99128 | P6y3.00 | Obstructive heart anomaly NEC |
| 104266 | P6y3100 | Right ventricular outflow tract obstruction |
| 97818 | P6y3z00 | Obstructive heart anomaly NEC NOS |
| 71956 | P6y4000 | Congenital absence of coronary artery |
| 62163 | P6y4100 | Single coronary artery |
| 31373 | P6y4400 | Anomalous coronary artery communication |
| 28705 | P6y4411 | Congenital coronary arterio-venous fistula |
| 49901 | P6y4500 | Congenital coronary aneurysm |
| 103412 | P6y4600 | Congenital stricture of coronary artery |
| 24533 | P6y5.00 | Congenital heart block |
| 68097 | P6y5000 | Congenital heart block, unspecified |
| 52310 | P6y5100 | Congenital complete atrio-ventricular heart block |
| 102167 | P6y5200 | Congenital incomplete atrio-ventricular heart block |
| 70992 | P6y5z00 | Congenital heart block NOS |
| 98061 | P6y8.00 | Congenital dextroposition of heart |
| 44767 | P6yy.11 | Hypoplastic aortic orifice or valve |
| 93089 | P6yy000 | Atresia of cardiac vein |
| 68063 | P6yy100 | Hypoplasia of cardiac vein |
| 34007 | P6yy200 | Congenital cardiomegaly |
| 49133 | P6yy300 | Congenital left ventricular diverticulum |
| 50362 | P6yy400 | Congenital pericardial defect |
| 101896 | P6yy411 | Congenital absence of pericardium |
| 68894 | P6yy500 | Congenital anomaly of myocardium |
| 108193 | P6yy600 | Congenital aneurysm of heart |
| 37451 | P6yy700 | Atresia of heart valve NEC |
| 23752 | P6yy900 | Congenital epicardial cyst |
| 95785 | РбууАОО | Hemicardia |
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| Medcode | Read Code | Description |] |
|----------------|--------------------|---|-----|
| 247 | P6z00 | Congenital heart anomaly NOS | |
| 26626 | P6z0.00 | Unspecified anomaly of heart valve | |
| 109236 | P6z1.00 | Anomalous bands of heart | |
| 103432 | P6z1000 | Anomalous atrial bands | |
| 64778 | P6z1100 | Anomalous ventricular bands | |
| 38968 | P6z2.00 | Acyanotic congenital heart disease NOS | |
| 11982 | P6zz.00 | Congenital heart anomaly NOS | |
| 9778 | P700 | Other congenital circulatory system anomalies | |
| 57932 | P710.00 | Hypoplasia of aortic arch, unspecified | |
| 72295 | P711.00 | Preductal coarctation of aorta | |
| 106756 | P711.13 | Preductal aortic stenosis | |
| 16731 | P713.11 | Stenosis of aortic arch | |
| 50220 | P7200 | Other anomalies of aorta | |
| 40030 | P7200 | | |
| 40030 62230 | P7211 P720.00 | Anomalies of the aorta excluding coarction Anomaly of aorta, unspecified | |
| | | | |
| 67286 68198 | P721000 P722.00 | Anomalous origin of the aortic arch Atresia and stenosis of aorta | |
| | | | |
| 59298 | P722100 | Aplasia of aorta | |
| 37515 | P722200 | Hypoplasia of aorta | |
| 53964 | P722400 | Supra-valvular aortic stenosis | |
| 58189 | P722411 | Congenital stenosis of ascending aorta | |
| 58076 | P722z00 | Atresia or stenosis of aorta NOS | |
| 44781 | P72z.00 | Other anomalies of aorta NOS | |
| 56200 | P72z100 | Congenital aneurysm of aorta | |
| 11293 | P72z111 | Congenital dilatation of aorta | |
| 11945 | P72zz00 | Other anomaly of aorta NOS | |
| 63187 | P730.00 | Pulmonary artery anomaly, unspecified | |
| 67928 | P731.00 | Pulmonary artery agenesis | |
| 103672 | P731.11 | Congenital absence of pulmonary artery | |
| 54487 | P734.00 | Hypoplasia of the pulmonary artery | |
| 2670 | P735.00 | Stenosis of pulmonary artery | |
| 111389 | P735.11 | Congenital stricture of pulmonary artery | |
| 96225 | P736.00 | Pulmonary arterio-venous aneurysm | |
| 47853 | P736.11 | Pulmonary arterio-venous fistula | |
| 65029 | P737.00 | Pulmonary artery aneurysm | |
| 42127 | P73z.00 | Pulmonary artery anomaly NOS | |
| 42684 | P7400 | Anomalies of great veins | |
| 45291 | P740.00 | Anomaly of great veins, unspecified | |
| 74890 | P740000 | Anomaly of the pulmonary veins, unspecified | |
| 50886 | P740100 | Anomaly of the vena cava, unspecified | |
| 51941 | P741.00 | Total anomalous pulmonary venous return - TAPVR | |
| 105037 | P741000 | Subdiaphragmatic total anomalous pulmonary venous return | |
| 103039 | P741100 | Supradiaphragmatic total anomalous pulmonary venous return | |
| 68784 | P741z00 | Total anomalous pulmonary venous return NOS | |
| 63677 | P742.11 | Anomalous termination of right pulmonary vein | |
| 101307 | P743.00 | Anomalous portal vein termination | |
| 73663 | P74z.00 | Other great vein anomalies | |
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| Medcode | Read Code | Description |
|---------|-----------|--|
| 72655 | P74z100 | Absence of superior vena cava |
| 51675 | P74z200 | Stenosis of inferior vena cava |
| 41197 | P74z300 | Stenosis of superior vena cava |
| 36606 | P74z600 | Scimitar syndrome |
| 71874 | P74z700 | Transposition of pulmonary veins |
| 73554 | P74zz00 | Other great vein anomaly NOS |
| 65384 | P7611 | Other congenital anomalies of peripheral arteries |
| 22070 | P7612 | Other congenital anomalies of peripheral veins |
| 42389 | P761.00 | Anomaly of artery NEC |
| 68310 | P762.00 | Atresia of artery NEC |
| 61062 | P767.00 | Congenital peripheral aneurysm |
| 58591 | P769.00 | Congenital arterial stricture |
| 35208 | P76A.00 | Congenital varix |
| 50786 | P76C.00 | Anomalies of renal artery NEC |
| 97401 | P76Cz00 | Anomaly of renal artery NEC NOS |
| 108675 | P76y.00 | Congenital anomaly of peripheral vascular system OS |
| 73738 | P76yz00 | Other congenital anomaly of peripheral vascular system NOS |
| 29738 | P7W00 | Congenital malformation of circulatory system, unspecif |
| 45910 | P7X00 | Congenital malformation of great arteries, unspecified |
| 55893 | P7y0000 | Congenital anomaly of cerebral vessel, unspecified |
| 24424 | P7y0100 | Congenital cerebral arteriovenous aneurysm |
| 95800 | P7y0111 | Congenital arteriovenous fistula of brain |
| 44581 | P7y0112 | Congenital cerebral arteriovenous malformation |
| 36666 | P7y0200 | Congenital brain aneurysm NEC |
| 101592 | P7yz.00 | Other cardiovascular system anomaly NOS |
| 63173 | P7yz000 | Congenital aneurysm NEC |
| 56810 | P7yz100 | Congenital chylothorax |
| 65499 | P7yzz00 | Other cardiovascular system anomaly NOS |
| 46398 | P800 | Respiratory system congenital anomalies |
| 31027 | P8000 | Choanal atresia |
| 66643 | P800.00 | Choanal atresia, unspecified |
| 68606 | P802.00 | Atresia of the posterior nares |
| 107172 | P803.00 | Congenital stenosis of the anterior nares |
| 96389 | P804.00 | Congenital stenosis of the posterior nares |
| 60514 | P80z.00 | Choanal atresia NOS |
| 66698 | P813.00 | Congenital cleft nose |
| 73595 | P816.00 | Congenital perforation of the nasal sinus wall |
| 31771 | P8200 | Congenital web of larynx |
| 111186 | P820.00 | Congenital web of larynx, unspecified |
| 42855 | P821.00 | Congenital glottic web of larynx |
| 97956 | P822.00 | Congenital subglottic web of larynx |
| 70985 | P82z.00 | Congenital web of larynx NOS |
| 29373 | P8300 | Other anomalies of larynx, trachea and bronchus |
| 63530 | P831.00 | Anomaly of laryngeal and tracheal cartilage |
| 47467 | P831200 | Anomaly of thyroid cartilage |
| 31020 | P831300 | Anomaly of tracheal cartilage |
| 104555 | P831700 | Congenital laryngomalacia |

| Medcode | Read Code | Description | ٦ |
|---------|--------------|--|---|
| 55062 | P831z00 | Anomaly of laryngeal or tracheal cartilage NOS | |
| 72001 | P832.00 | Atresia of larynx and trachea | |
| 61727 | P832000 | Atresia of epiglottis | |
| 92834 | P832100 | Atresia of glottis | |
| 63288 | P832300 | Atresia of trachea | |
| 59273 | P833.00 | Congenital stenosis of larynx, trachea and bronchus | |
| 61450 | P833000 | Congenital stenosis of larynx | |
| 48818 | P833100 | Congenital stenosis of trachea | |
| 71893 | P833200 | Congenital stenosis of bronchus | |
| 49142 | P833300 | Congenital subglottic stenosis | |
| 55144 | P833400 | Congenital supraglottic stenosis | |
| 63637 | P83y.00 | Other anomaly of larynx, trachea and bronchus | |
| 37835 | P83y100 | Congenital dilatation of trachea | |
| 45351 | P83y300 | Congenital laryngocele | |
| 99683 | , P83y500 | Congenital diverticulum of trachea | |
| 105605 | , P83y700 | Congenital cleft of posterior cricoid cartilage | |
| 11845 | , P83yB00 | Congenital bronchomalacia | |
| 63507 | P83yw00 | Other anomaly of larynx | |
| 36474 | P83yX00 | Congenital malformation of larynx, unspecified | |
| 70193 | P83yx00 | Other anomaly of trachea | |
| 104976 | P83yy00 | Other anomaly of bronchus | |
| 103042 | P83yz00 | Other anomaly of larynx, trachea or bronchus NOS | |
| 36779 | P83z.00 | Other anomalies of larynx, trachea or bronchus NOS | |
| 66223 | P840.00 | Congenital cystic lung disease, unspecified | |
| 31820 | P841.00 | Congenital polycystic lung | |
| 50980 | P841.12 | Multiple congenital bronchogenic cysts | |
| 66951 | P842.00 | Congenital honeycomb lung | |
| 32600 | P843.12 | Congenital bronchogenic cyst | |
| 96586 | P844.00 | Congenital cystic adenomatoid malformation of the lung | |
| 33804 | P84z.00 | Congenital cystic lung NOS | |
| 52664 | P850.00 | Aplasia of lung | |
| 23874 | P851.00 | Hypoplasia of lung | |
| 59444 | P853.00 | Agenesis of lung | |
| 54384 | P853.11 | Congenital absence of lung | |
| 68268 | P853000 | Congenital absence of lung fissures | |
| 97185 | P853100 | Congenital absence of lobe of lung | |
| 63453 | P860.00 | Anomaly of lung, unspecified | |
| 56427 | P861.00 | Congenital bronchiectasis | |
| 52894 | P8y2.00 | Atresia of nasopharynx | |
| 44347 | P8y4.00 | Congenital pulmonary lymphangiectasis | |
| 46397 | P8z00 | Respiratory system anomaly NOS | |
| 58885 | P900.00 | Cleft palate, unspecified | |
| 73531 | P901.00 | Unilateral complete cleft palate | |
| 38873 | P901.11 | Cleft hard palate, unilateral | |
| 73558 | P902.00 | Unilateral incomplete cleft palate | |
| 57490 | P902.12 | Cleft soft palate, unilateral | |
| 48948 | P903.00 | Bilateral complete cleft palate | |

| Medcode | Read Code | Description |
|---------|-----------|--|
| 106078 | P904.00 | Bilateral incomplete cleft palate |
| 97477 | P904.11 | Cleft soft palate, bilateral |
| 68166 | P906.11 | Cleft soft palate, central |
| 65623 | P907.11 | Cleft hard palate NOS |
| 25740 | P908.11 | Cleft soft palate NOS |
| 42208 | P90A.00 | Cleft soft palate, bilateral |
| 64549 | P90B.00 | Cleft hard palate, bilateral |
| 101223 | P90C.00 | Cleft hard palate, unilateral |
| 15364 | P90z.00 | Cleft palate NOS |
| 2027 | P9100 | Cleft lip (harelip) |
| 63930 | P911.00 | Unilateral complete cleft lip |
| 54012 | P912.00 | Unilateral incomplete cleft lip |
| 54721 | P913.00 | Bilateral complete cleft lip |
| 35374 | P91z.00 | Cleft lip NOS |
| 51301 | P920.00 | Cleft palate with cleft lip, unspecified |
| 62987 | P921.00 | Unilateral complete cleft palate with cleft lip |
| 54144 | P922.00 | Unilateral incomplete cleft palate with cleft lip |
| 44977 | P923.00 | Bilateral complete cleft palate with cleft lip |
| 62690 | P924.00 | Bilateral incomplete cleft palate with cleft lip |
| 93972 | P928.00 | Cleft hard palate with cleft soft palate, unilateral |
| 33902 | P92A.00 | Cleft hard palate with cleft lip, bilateral |
| 62321 | P92B.00 | Cleft hard palate with cleft lip, unilateral |
| 68398 | P92z.00 | Cleft palate with cleft lip NOS |
| 50430 | P9z00 | Cleft palate or cleft lip NOS |
| 72991 | PA00 | Other congenital upper alimentary tract anomalies |
| 37358 | PA10.00 | Anomaly of tongue, unspecified |
| 30176 | PA14.00 | Macroglossia |
| 103145 | PA15.00 | Microglossia |
| 34305 | PA22.00 | Atresia, salivary duct |
| 49382 | PA23.00 | Congenital salivary gland fistula |
| 37517 | PA25y00 | Other congenital anomaly of palate |
| 56901 | PA27000 | Imperforate pharynx |
| 49742 | PA27100 | Congenital pharyngeal polyp |
| 109860 | PA2A000 | Congenital ectropion of lip |
| 37408 | PA300 | Oesophageal atresia, stenosis and fistula |
| 46814 | PA311 | Congenital oesophageal ring |
| 49707 | PA31.11 | Congenital oesophageal stenosis |
| 31730 | PA32.00 | Congenital oesophageal fistula |
| 37868 | PA32100 | Oesophagotracheal fistula |
| 35042 | PA32111 | Congenital tracheo-oesophageal fistula |
| 95311 | PA32z00 | Congenital oesophageal fistula NOS |
| 98741 | PA33.00 | Imperforate oesophagus |
| 98859 | PA35.00 | Congenital absence of oesophagus |
| 33655 | PA37.00 | Atresia of oesophagus with tracheo-oesophageal fistula |
| 22560 | PA40.00 | Congenital dilatation of oesophagus |
| 55900 | PA43.00 | Congenital duplication of oesophagus |
| 43558 | PA45.00 | Congenital oesophageal pouch |
| 334 | | • |

| Medcode | Read Code | Description | |
|-----------------|--------------------|---|-----|
| 43215 | PA600 | Congenital hiatus hernia | |
| 72271 | PA70.00 | Congenital cardiospasm | |
| 23416 | PA70.11 | Congenital achalasia of cardia | |
| 47776 | PA71.00 | Congenital hourglass stomach | |
| 65337 | PA73.00 | Congenital stomach diverticulum | |
| 71255 | PA75.00 | Megalogastria | |
| 66199 | PA77.00 | Transposition of stomach | |
| 25280 | PAz2.00 | Unspecified anomalies of stomach | |
| 55080 | PAzz.00 | Anomalies of upper alimentary tract NOS | |
| 42998 | PB00 | Other congenital digestive system anomaly | |
| 60083 | PB100 | Small intestine atresia and stenosis | |
| 33584 | PB10.00 | Atresia of small intestine | |
| 40252 | PB10000 | Atresia of small intestine, unspecified | |
| 19039 | PB10100 | Atresia of duodenum | |
| 53565 | PB10200 | Atresia of ileum | |
| 52687 | PB10300 | Atresia of jejunum | |
| 70579 | PB10z00 | Small intestine atresia NOS | |
| 18406 | PB11200 | Congenital absence of ileum | |
| 66309 | PB12.00 | Congenital obstruction of small intestine | |
| 59399 | PB13.00 | Congenital stenosis of small intestine | |
| 20686 | PB13000 | Congenital stenosis of duodenum | |
| 67021 | PB13100 | Congenital stenosis of jejunum | |
| 69712 | PB13200 | Congenital stenosis of ileum | |
| 99366 | PB13z00 | Congenital stenosis of small intestine NOS | |
| 47939 | PB13z11 | Congenital stricture of small intestine | |
| 68484 | PB14.00 | Imperforate jejunum | |
| 25042 | PB1z.00 | Small intestine atresia or stenosis NOS | |
| 51672 | PB200 | Atresia and stenosis of large intestine/rectum/anal canal | |
| 27598 | PB211 | Atresia large intestine | |
| 50109 | PB212 | Stenosis large intestine | |
| 58855 | PB20.00 | Congenital absence of large intestine | |
| 59430 | PB20000 | Congenital absence of anus | |
| 50443 | PB20200 | Congenital absence of rectum | |
| 93826 | PB20300 | Congenital absence of anus with fistula | |
| 58095 | PB20400 | Congenital absence of rectum with fistula | |
| 31468 | PB21.00 | Atresia of large intestine | |
| 31731 | PB21000 | Atresia of anus | |
| 23593 | PB21000 | Atresia of colon | |
| 46123 | PB21200 | Atresia of colori | |
| 99653 | PB21200 | Atresia of appendix | |
| 71153 | PB21500 | Atresia of appendix Atresia of rectum with fistula | |
| 65762 | PB21300 PB22.00 | Congenital obstruction of large intestine | |
| 108445 | PB22.00 PB22.11 | Congenital obstruction of large intestine | |
| 90483 | PB22.11 PB23.00 | Congenital occlusion of anus | |
| 90483 101348 | PB23.00 PB23000 | - | |
| | | Congenital occlusion of anus with fistula | |
| 62671 | PB23z00 | Congenital occlusion of anus NOS | |
| 48020 | PB24.00 | Congenital stricture of anus | 225 |

| Medcode | Read Code | Description |
|---------|-----------|---|
| 35019 | PB24.11 | Congenital anal stricture |
| 41359 | PB24000 | Congenital stricture of anus with fistula |
| 100539 | PB24011 | Congenital stenosis of anus with fistula |
| 107117 | PB24100 | Congenital stricture of anus without mention of fistula |
| 49089 | PB24111 | Congenital stenosis of anus without mention of fistula |
| 73497 | PB24z00 | Congenital stricture of anus NOS |
| 49501 | PB25.00 | Congenital stricture of rectum |
| 38655 | PB25.11 | Congenital rectal stricture |
| 69054 | PB25000 | Congenital stricture of rectum with fistula |
| 101122 | PB25111 | Congenital stenosis of rectum without mention of fistula |
| 42469 | PB25z00 | Congenital stricture of rectum NOS |
| 4855 | PB26.00 | Imperforate anus |
| 61401 | PB26000 | Imperforate anus with fistula |
| 67319 | PB26z00 | Imperforate anus NOS |
| 49242 | PB27.00 | Imperforate rectum |
| 44953 | PB27000 | Imperforate rectum with fistula |
| 35968 | PB2z.00 | Atresia and stenosis of large intestine/rectum/anus NOS |
| 56630 | PB300 | Hirschsprung's disease and allied congenital conditions |
| 94813 | PB311 | Aganglionosis |
| 8546 | PB30.00 | Hirschsprung's disease |
| 63395 | PB30000 | Long segment Hirschsprung's disease |
| 70582 | PB30z00 | Hirschsprung's disease NOS |
| 37401 | PB31.00 | Idiopathic congenital megacolon |
| 65511 | PB33.11 | Aganglionic macrocolon |
| 59085 | PB3z.00 | Hirschsprung's disease and allied congenital conditions NOS |
| 67830 | PB40.00 | Congenital intestinal adhesions |
| 69684 | PB40000 | Congenital omental adhesions |
| 67420 | PB40200 | Congenital peritoneal adhesions |
| 47616 | PB40211 | Congenital peritoneal bands |
| 69811 | PB40z00 | Congenital intestinal adhesions NOS |
| 50278 | PB500 | Other anomalies of intestine |
| 68819 | PB52z11 | Congenital redundant rectal mucosa |
| 48260 | PB52z12 | Congenital redundant colon |
| 67877 | PB53.00 | Transposition of intestine |
| 71180 | PB53000 | Transposition of intestine, unspecified |
| 59279 | PB53100 | Transposition of appendix |
| 66200 | PB53200 | Transposition of caecum |
| 45857 | PB53300 | Transposition of colon |
| 50050 | PB56.00 | Megaloduodenum |
| 37080 | PB59.00 | Congenital anal fistula |
| 47726 | PB5X.00 | Congenital malformation of intestine, unspecified |
| 49448 | PB5z.11 | Congenital volvulus |
| 71051 | PB5z000 | Congenital faecal fistula |
| 40425 | PB611 | Bile duct anomalies |
| 53764 | PB60200 | Bile duct anomaly, unspecified |
| 16417 | PB61000 | Congenital absence of bile duct |
| 49479 | PB61200 | Congenital obstruction of bile duct |
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| Medcode | Read Code | Description |
|---------|--------------|---|
| 95810 | PB61300 | Congenital stricture of bile duct |
| 32803 | PB61311 | Congenital stricture of common bile duct |
| 38389 | PB61400 | Atresia of bile duct |
| 48269 | PB61500 | Congenital absence of hepatic ducts |
| 50400 | PB61600 | Atresia of hepatic ducts |
| 27565 | PB62.00 | Congenital cystic liver disease |
| 34903 | PB62.11 | Congenital hepatic cyst |
| 18195 | PB62000 | Congenital polycystic liver disease |
| 72000 | PB62z00 | Congenital cystic liver disease NOS |
| 42256 | PB63000 | Congenital absence of gallbladder |
| 47576 | PB63011 | Agenesis of gallbladder |
| 98402 | PB63100 | Congenital absence of liver lobe |
| 40029 | PB63500 | Alagille syndrome |
| 20979 | PB6y000 | Congenital choledochal cyst |
| 48738 | PB6y100 | Congenital hepatomegaly |
| 65590 | PB6y700 | Congenital dilation of bile duct |
| 66182 | PB6yw00 | Other congenital anomaly of liver |
| 110299 | PB6yw13 | Trilobular liver |
| 94116 | РВбууОО | Other congenital anomaly of hepatic or bile ducts |
| 61593 | PB72.00 | Hypoplasia of pancreas |
| 30055 | PB7z.00 | Anomalies of pancreas NOS |
| 60738 | PBy0.00 | Congenital absence of digestive system NOS |
| 39277 | PBy2.00 | Congenital malposition of digestive system NOS |
| 44969 | , PC00 | Congenital genital organ anomalies |
| 42571 | PC00.00 | Congenital absence of ovary |
| 106909 | PCOy.11 | Congenital ovarian dysplasia |
| 61770 | , PC1y200 | Atresia of fallopian tube |
| 57747 | PC4y200 | Congenital absence of clitoris |
| 32484 | PC4y800 | Congenital stenosis of cervical canal |
| 37200 | PC4y900 | Congenital stenosis of vagina |
| 62647 | PC4y911 | Congenital stricture of vagina |
| 65385 | PC4yA00 | Atresia of cervix |
| 36548 | PC4yB00 | Atresia of vagina |
| 30143 | PC4yC00 | Congenital vaginal cyst NEC |
| 30673 | PC4yE00 | Congenital labial adhesions |
| 46264 | , PC70.00 | True hermaphroditism |
| 54216 | PC71.00 | Male pseudohermaphroditism |
| 64539 | PC72.00 | Female pseudohermaphroditism |
| 48532 | PC7z100 | Pseudohermaphrodite NOS |
| 49245 | PCy0000 | Congenital absence of penis |
| 94282 | , PCy1.00 | Congenital aplasia of genital organ NEC |
| 91739 | , PCy1000 | Congenital aplasia of prostate |
| 38020 | , PCy1300 | Congenital aplasia of scrotum |
| 23948 | PCy2000 | Hypoplasia of penis |
| 95015 | , PCy3.00 | Atresia of genital organ NEC |
| 56100 | , PCy3000 | Atresia of ejaculatory duct |
| 62335 | PCy3z00 | Atresia of genital organ NEC NOS |
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| Medcode | Read Code | Description |
|---------|-----------|---|
| 48765 | PCy4.12 | Testicular agenesis, bilateral |
| 38998 | PCy5.12 | Testicular agenesis, unilateral |
| 22437 | PCyw.00 | Other congenital anomaly of testis or scrotum |
| 30097 | PD000 | Renal agenesis and dysgenesis |
| 27474 | PD00.00 | Renal agenesis, unspecified |
| 31961 | PD00100 | Unilateral renal agenesis |
| 55985 | PD00z00 | Renal agenesis, unspecified NOS |
| 27471 | PD01.00 | Congenital renal atrophy |
| 3314 | PD02.00 | Congenital absence of kidney |
| 71154 | PD02000 | Bilateral congenital absence of kidneys |
| 23958 | PD02100 | Unilateral congenital absence of kidney |
| 65407 | PD02z00 | Congenital absence of kidney NOS |
| 42925 | PD03000 | Bilateral renal hypoplasia |
| 30650 | PD03100 | Unilateral renal hypoplasia |
| 9500 | PD04000 | Bilateral renal dysplasia |
| 24120 | PD04100 | Unilateral renal dysplasia |
| 54656 | PD04111 | Unilateral renal dysgenesis |
| 105657 | PD04200 | Renal dysplasia and retinal aplasia |
| 29659 | PD0z.00 | Renal agenesis or dysgenesis NOS |
| 15917 | PD100 | Congenital cystic kidney disease |
| 4504 | PD113 | Polycystic kidney |
| 27436 | PD114 | Sponge kidney |
| 17523 | PD10.00 | Congenital renal cyst, single |
| 4503 | PD11.00 | Polycystic kidney disease |
| 105919 | PD11011 | Autosomal recessive polycystic kidney disease |
| 4505 | PD11100 | Polycystic kidneys, adult type |
| 105143 | PD11111 | Autosomal dominant polycystic kidney disease |
| 56852 | PD11z00 | Polycystic kidney disease NOS |
| 9240 | PD11z11 | Cystic kidney disease NEC |
| 42632 | PD12.00 | Medullary cystic disease |
| 66998 | PD12000 | Medullary cystic disease, juvenile type |
| 42042 | PD12011 | Nephronophthisis |
| 105794 | PD12012 | Autosomal recessive medullary cystic disease |
| 47135 | PD12100 | Medullary cystic disease, adult type |
| 109106 | PD12200 | Nephronophthisis - medullary cystic disease |
| 110208 | PD12211 | Autosomal dominant medullary cystic disease |
| 64694 | PD12y00 | Medullary cystic disease OS |
| 41522 | PD12z00 | Medullary cystic disease NOS |
| 18331 | PD13.00 | Multicystic renal dysplasia |
| 11946 | PD13.11 | Multicystic kidney |
| 59031 | PD1yz00 | Other congenital cystic kidney disease NOS |
| 50331 | PD1z.00 | Congenital cystic kidney disease NOS |
| 49700 | PD20.00 | Atresia of ureter |
| 59736 | PD21.11 | Congenital ureteric valves |
| 33355 | PD22.00 | Congenital stricture of ureter |
| 50820 | PD22.11 | Congenital stenosis of ureter |
| 97464 | PD22000 | Congenital stricture of ureter, unspecified |
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| Medcode | Read Code | Description | |
|---------|-----------|---|--|
| 27646 | PD22100 | Congenital stricture of ureteropelvic junction | |
| 96829 | PD22200 | Congenital stricture of ureterovesical orifice | |
| 69191 | PD22z00 | Congenital stricture of ureter NOS | |
| 5379 | PD23.00 | Congenital hydronephrosis | |
| 22571 | PD23.11 | Congenital dilated renal pelvis | |
| 26403 | PD24.00 | Congenital dilatation of ureter | |
| 46116 | PD25.00 | Hydroureter - congenital | |
| 5099 | PD26.00 | Megaloureter - congenital | |
| 46177 | PD2z.00 | Obstructive defect of renal pelvis or ureter NOS | |
| 32963 | PD30.12 | Renal duplication NEC | |
| 56531 | PD31.00 | Congenital calculus of kidney | |
| 4431 | PD34.11 | Duplex kidneys | |
| 92988 | PD3C.00 | Triple kidney with triple pelvis | |
| 24918 | PD47.00 | Congenital vesico-uretero-renal reflux | |
| 97475 | PD60000 | Atresia of bladder neck | |
| 47854 | PD60z00 | Congenital bladder neck obstruction NOS | |
| 34741 | PD61.00 | Congenital obstruction of urethra | |
| 95045 | PD61000 | Atresia of anterior urethra | |
| 100419 | PD61z00 | Congenital obstruction of urethra NOS | |
| 41342 | PD62.00 | Congenital urethral valvular stricture | |
| 69107 | PD62.11 | Congenital posterior urethral valves | |
| 31985 | PD63.00 | Congenital urinary meatus stricture | |
| 67371 | PD63.11 | Congenital urinary meatus obstruction | |
| 71832 | PD63z00 | Congenital urinary meatus stricture NOS | |
| 104830 | PD64.00 | Congenital vesicourethral orifice stricture | |
| 11710 | PD67.00 | Congenital posterior urethral valves | |
| 30315 | PD700 | Anomalies of urachus | |
| 56889 | PD7z.00 | Anomalies of urachus NOS | |
| 109067 | PD800 | Congenital abnormality of the kidney | |
| 108940 | PD80.00 | Duplex kidney | |
| 39970 | PDy0.00 | Congenital absence of bladder | |
| 57166 | PDy5.00 | Congenital bladder hernia | |
| 29419 | PDy6.00 | Congenital urethrorectal fistula | |
| 41025 | PDy7.00 | Congenital prolapse of bladder mucosa | |
| 47479 | PDy8.00 | Congenital prolapse of urethra | |
| 44752 | PDz2.00 | Unspecified anomaly of bladder | |
| 46880 | PDz3.00 | Unspecified anomaly of urethra | |
| 3298 | PE11 | Congenital musculoskeletal deformities | |
| 9371 | PE00000 | Hemifacial microsomia | |
| 53454 | PE07.00 | Congenital bent or squashed nose | |
| 65125 | PE111 | Congenital wry neck | |
| 22012 | PE200 | Congenital spine deformity | |
| 49933 | PE20.00 | Congenital spine deformity, unspecified | |
| 29412 | PE2z.00 | Congenital spine deformity NOS | |
| 38363 | PE2z.11 | Congenital postural curvature of spine NOS | |
| | | | |
| 9239 | PE300 | Congenital dislocation and subluxation of the hip | |

| 45970 | | |
|--------|--------------|--|
| | PE30000 | Unilateral congenital dislocation of hip |
| 38373 | PE30100 | Bilateral congenital dislocation of hip |
| 33576 | PE30z00 | Congenital dislocation of hip NOS |
| 34019 | PE31000 | Unilateral congenital subluxation of hip |
| 97269 | PE31014 | Congenital instability of hip joint |
| 61870 | PE31100 | Bilateral congenital subluxation of hip |
| 62586 | PE31z00 | Congenital subluxation of hip NOS |
| 38772 | PE34000 | Unilateral dysplastic hip |
| 34285 | PE34100 | Bilateral dysplastic hip |
| 50468 | PE35100 | Bilateral unstable hip |
| 27301 | PE3z.00 | Congenital dislocation of hip NOS |
| 41198 | PE411 | Congenital leg bone bowing |
| 50367 | PE40.00 | Congenital genu recurvatum |
| 22846 | PE50.00 | Congenital talipes varus |
| 156 | PE51.00 | Congenital talipes equinovarus |
| 7815 | PE5y000 | Congenital talipes calcaneovarus |
| 29808 | PE60.00 | Congenital talipes valgus |
| 23980 | PE60.11 | Congenital clubfoot - valgus |
| 50065 | PE61000 | Congenital vertical talus |
| 31013 | PE6y000 | Congenital talipes equinovalgus |
| 41807 | , PE6z.11 | Congenital metatarsus valgus |
| 38386 | PE7y100 | Congenital talipes calcaneus |
| 4334 | PE7y200 | Congenital talipes equinus |
| 27309 | PE80.11 | Congenital funnel chest |
| 45651 | PE8y000 | Congenital club hand |
| 41019 | PE8y011 | Congenital club fingers |
| 35125 | PE8y111 | Congenital thoracic wall deformity NEC |
| 22301 | PE8y200 | Congenital dislocation of elbow |
| 56631 | PE8y300 | Congenital flexion contractures of leg |
| 61879 | PE8y400 | Congenital spade-like hand |
| 50307 | PE8y600 | Congenital flexion contracture of hip |
| 29124 | PE8y800 | Congenital flexion contracture of knee |
| 37167 | PE911 | Other congenital musculoskeletal deformity |
| 33946 | PEz00 | Congenital musculoskeletal deformity NOS |
| 14649 | PF00 | Other congenital limb anomalies |
| 40691 | PF0z.00 | Polydactyly NOS |
| 63079 | PF10.00 | Syndactyly of multiple digits, unspecified |
| 41117 | PF11.00 | Syndactyly of fingers without bone fusion |
| 56836 | PF13.00 | Syndactyly of toes without bone fusion |
| 67014 | PF14.00 | Syndactyly of toes with bone fusion |
| 108734 | PF14.13 | Syndactyly of toes with bone fusion |
| 38836 | PF15.00 | Polysyndactyly |
| 43838 | PF1z.00 | Syndactyly NOS |
| 68991 | PF1z.11 | Polysyndactyly |
| 37973 | PF21.11 | Congenital absence part of arm |
| 59307 | PF21400 | Congenital amputation of upper limb |
| 46835 | PF21613 | Congenital absence of hand |

| Medcode | Read Code | Description |
|---------|-----------|--|
| 56350 | PF21z11 | Agenesis of hand |
| 37277 | PF23.00 | Congenital absence upper arm and forearm with hand present |
| 72180 | PF24.00 | Congenital absence of upper arm only |
| 27624 | PF25.00 | Congenital absence of forearm only |
| 66061 | PF26200 | Total radial absence |
| 68975 | PF27100 | Total absence of ulna |
| 33394 | PF29.00 | Congenital absence of finger |
| 22457 | PF2z.11 | Hypoplasia of upper limb |
| 60525 | PF31200 | Congenital absence of leg and foot |
| 94734 | PF34100 | Congenital short femur |
| 72561 | PF35.00 | Congenital absence of lower leg only |
| 104835 | PF36200 | Congenital tibial deficiency type III |
| 60930 | PF37.00 | Agenesis of fibula |
| 97903 | PF37100 | Congenital fibular deficiency type II |
| 64339 | PF39400 | Congenital absence of other multiple toes |
| 24646 | PF3z.11 | Hypoplasia of lower limb |
| 28661 | PF40.00 | Congenital absence of limb NOS |
| 53564 | PF45.00 | Congenital amputation of unspecified limb |
| 59166 | PF47.11 | Adactyly |
| 51993 | PF4z.13 | Hypoplasia of limb NOS |
| 28542 | PF51.00 | Congenital deformity of clavicle |
| 37402 | PF55.11 | Apert's syndrome |
| 41840 | PF55000 | Acrocephalosyndactyly (Apert) |
| 57986 | PF55300 | Saethre-Chotzen syndrome |
| 30141 | PF58.00 | Congenital cleft hand |
| 24053 | PF5E.00 | Constriction ring syndrome of upper limb |
| 38896 | PF5E000 | Constriction ring |
| 93038 | PF5E100 | Constriction ring with lymphoedema |
| 62353 | PF5E200 | Acrosyndactyly |
| 104024 | PF5E400 | Constriction ring with acrosyndactyly and amputation |
| 48901 | PF5F.00 | Congenital absence of both forearm and hand |
| 48508 | PF5G.00 | Congenital complete absence of upper limb(s) |
| 26291 | PF5r.00 | Other congenital anomalies of fingers |
| 37965 | PF5rD00 | Congenital malformation of thumb |
| 66010 | PF5u.00 | Other congenital anomalies of forearm |
| 61558 | PF5uz00 | Other congenital anomaly forearm NOS |
| 24218 | PF5v.00 | Congenital anomalies of elbow and upper arm |
| 63972 | PF5w.00 | Other congenital anomalies of shoulder |
| 49743 | PF5w.11 | Congenital deformity of scapula NEC |
| 48510 | PF5x.00 | Other congenital anomalies of whole arm |
| 62024 | PF5y300 | Congenital humeral varus |
| 2889 | PF63100 | Congenital hip dysplasia |
| 40517 | PF63X00 | Congenital deformity of hip, unspecified |
| 63834 | PF63z00 | Other congenital hip joint deformity NOS |
| 61638 | PF64000 | Congenital absence of patella |
| 50077 | PF64z00 | Congenital knee joint deformity NOS |
| 99687 | PF69000 | Congenital synostosis of lower limb bones |
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| Medcode | Read Code | Description |
|---------|--------------|--|
| 46652 | PF6B.00 | Congenital overgrowth of lower limb |
| 53673 | PF6B200 | Congenital overgrowth of foot |
| 62705 | PF6B300 | Congen overgrowth of whole lower limb |
| 62450 | PF6C.00 | Congenital undergrowth of lower limb |
| 54180 | PF6C000 | Congenital undergrowth of proximal part of limb |
| 64939 | PF6C100 | Congenital undergrowth of distal part of limb |
| 67293 | PF6D.00 | Constriction ring syndrome of lower limb |
| 93784 | PF6D000 | Constriction ring of lower limb |
| 28775 | PF6D300 | Constriction ring syndrome of lower limb with amputation |
| 59150 | PF6v.00 | Other congenital anomalies of lower leg |
| 92299 | PF6w.00 | Other congenital anomalies of upper leg |
| 25190 | PF6x.00 | Other congenital anomalies of pelvis |
| 55114 | PF6xz00 | Other congenital anomalies of pelvis NOS |
| 54295 | PF6y000 | Congenital angulation of tibia |
| 27426 | PF6y100 | Congenital deformity of ankle joint |
| 64527 | PF6y200 | Congenital deformity of sacroiliac joint |
| 67220 | PF6y300 | Congenital fusion of sacroiliac joint |
| 36277 | PF6y400 | Congenital varus ankle |
| 36791 | PF6y500 | Congenital valgus ankle |
| 48469 | PF6y600 | Congenital pseudarthrosis of tibia |
| 66220 | PFyz.00 | Other anomaly of unspecified limb NOS |
| 9723 | PFz00 | Congenital anomaly of unspecified limb NOS |
| 38119 | PG00.00 | Congenital absence of skull bones |
| 48272 | PG01.00 | Acrocephaly |
| 16897 | PG03.00 | Craniosynostosis |
| 25783 | PG04.11 | Crouzon's disease |
| 107520 | PG04.12 | Trigorhinophalangeal dysplasia |
| 38476 | PG0B.00 | Trigonocephaly |
| 4046 | PG0C.00 | Pierre - Robin syndrome |
| 44064 | PG0E.00 | Oculomandibular dysostosis |
| 69377 | PG0E.11 | Hallerman - Streif syndrome |
| 96210 | PG0J.00 | Pierre Robin association |
| 33762 | PG0y000 | Brachycephaly |
| 69913 | , PG0yz00 | Other anomaly of skull or face bone NOS |
| 60066 | , PG10.00 | Anomaly of spine, unspecified |
| 35729 | PG11.00 | Congenital lumbosacral spondylolysis |
| 1871 | PG12.00 | Congenital spondylolisthesis |
| 68093 | PG13000 | Congenital absence of cervical vertebra |
| 43351 | PG13300 | Congenital absence of sacrum |
| 29414 | PG15.11 | Congenital lumbosacral fusion |
| 52822 | PG15000 | Congenital complete fusion of spine |
| 91259 | PG15100 | Congenital partial fusion of spine - balanced |
| 53028 | PG15200 | Congenital partial fusion of spine - unbalanced |
| 4674 | PG16.00 | Klippel-Feil syndrome |
| 73985 | PG16z00 | Klippel - Feil syndrome NOS |
| 3336 | PG17.00 | Spina bifida occulta |
| 28717 | PG18.11 | Congenital kyphoscoliosis |
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| Medcode | Read Code | Description |
|---------|-----------|--|
| 5574 | PG1u.00 | Congenital anomalies of cervical vertebrae NEC |
| 41763 | PG1uz00 | Congenital anomaly of cervical vertebrae NEC NOS |
| 40690 | PG1v.00 | Congenital anomalies of thoracic vertebrae NEC |
| 71152 | PG1vz00 | Congenital anomaly of thoracic vertebrae NEC NOS |
| 66463 | PG1wz00 | Congenital anomaly of lumbar vertebra NEC NOS |
| 48088 | PG1x.00 | Congenital sacrococcygeal anomalies NEC |
| 93830 | PG1x000 | Congenital absence of coccyx |
| 68081 | PG1x100 | Congenital absence of sacrum |
| 70583 | PG1xz00 | Congenital sacrococcygeal anomaly NOS |
| 56878 | PG1y.00 | Other anomaly of spine |
| 53416 | PG1y.11 | Congenital deformity of lumbosacral joint |
| 51156 | PG1y.12 | Congenital deformity of lumbosacral region |
| 68493 | PG1y400 | Hypoplasia of spine |
| 22768 | PG1yz00 | Other anomaly of spine NOS |
| 45429 | PG1z.00 | Anomalies of spine NOS |
| 42378 | PG30.00 | Congenital absence of rib |
| 63291 | PG31.00 | Congenital absence of sternum |
| 35806 | PG33.00 | Congenital fusion of ribs |
| 31378 | PG3x.00 | Other congenital anomalies of ribs |
| 51424 | PG3y.00 | Other congenital anomalies of sternum |
| 66465 | PG3z.11 | Anomalies of thoracic cage unspecified |
| 22756 | PG400 | Chondrodysplasia |
| 73905 | PG40.00 | Chondrodysplasia, unspecified |
| 5006 | PG41.11 | Dwarfism |
| 57804 | PG41.13 | Achondroplastic dwarf |
| 94173 | PG41000 | Hypochondroplasia |
| 29840 | PG42.15 | Hypochondroplasia |
| 59172 | PG42.16 | Osteopathia striata |
| 36351 | PG42.17 | Pseudochondroplasia |
| 61992 | PG42012 | Maffuci's syndrome |
| 105696 | PG42100 | Myotonic chondrodysplasia |
| 50228 | PG43.11 | Jeune's syndrome |
| 37743 | PG44100 | Metatropic dwarfism |
| 56900 | PG44200 | Thanatophoric dwarfism |
| 67262 | PG44211 | Thanatophoric dysplasia |
| 43115 | PG44600 | Pseudoachondroplasia |
| 95921 | PG44z00 | Other dwarfing syndromes NOS |
| 26069 | PG45.00 | Metaphyseal dysostosis |
| 56692 | PG45.12 | Schmid's metaphyseal dysostosis |
| 45162 | PG45.15 | Metaphyseal dysplasia |
| 95041 | PG4B100 | Hypochondrogenesis |
| 18193 | PG4C.00 | Chondrodysplasia punctata |
| 14917 | PG4z.00 | Chondrodysplasia NOS |
| 36753 | PG500 | Osteodysplasia |
| 38450 | PG511 | Osteodystrophy |
| 96403 | PG50.00 | Osteodysplasia, unspecified |
| 5524 | PG51.13 | Adair-Dighton syndrome |

| Medcode | Read Code | Description |
|---------|-----------|---|
| 66679 | PG51.15 | Van der Hoeve's syndrome |
| 50325 | PG52.11 | Albers - Schonberg syndrome |
| 39943 | PG53.00 | Osteopoikilosis |
| 30600 | PG54.00 | Polyostotic fibrous dysplasia |
| 68007 | PG55.11 | Ellis - Van Creveld syndrome |
| 58035 | PG56000 | Chondrodysplasia calcificans congenita |
| 63146 | PG56011 | Chondrodysplasia calcificans congenita |
| 15046 | PG5y000 | Albright-Sternberg syndrome |
| 30601 | PG5y011 | Albright-McCune-Sternberg syndrome |
| 57407 | PG5y012 | Albright's polyostotic dysplasia |
| 55331 | PG5z.00 | Osteodysplasia NOS |
| 68427 | PG5z.11 | Osteochondrodysplasia |
| 31416 | PG600 | Anomalies of diaphragm |
| 49768 | PG61.00 | Congenital diaphragmatic hernia |
| 59281 | PG61.11 | Congenital defect of diaphragmatic NEC |
| 24561 | PG62.00 | Congenital foramen Morgagni hernia |
| 15593 | PG71.00 | Gastroschisis |
| 22853 | PG72.00 | Prune belly syndrome |
| 110450 | PG73.00 | Congenital umbilical hernia |
| 63565 | PGW00 | Osteochondrodyspl with defct growth tub bone spine unspec |
| 52658 | PGX00 | Congenital malformation of bony thorax, unspecified |
| 56160 | PGy0212 | Orbinsky syndrome |
| 4451 | PGy2.00 | Ehlers-Danlos syndrome |
| 63549 | PGy2000 | Ehlers-Danlos syndrome type I |
| 72787 | PGy2100 | Ehlers-Danlos syndrome type II |
| 28335 | PGy2200 | Ehlers-Danlos syndrome type III |
| 70415 | PGy2300 | Ehlers-Danlos syndrome type IV |
| 53984 | PGy2500 | Ehlers-Danlos syndrome type VI |
| 95643 | PGy2600 | Ehlers-Danlos syndrome type VII |
| 98263 | PGy2700 | Ehlers-Danlos syndrome type VIII |
| 57769 | PGyy000 | Amyotrophica congenita |
| 45473 | PGyy400 | Aplasia of muscle |
| 2709 | PGz00 | Congenital musculoskeletal anomalies NOS |
| 35801 | PGz11 | Congenital deformity of musculoskeletal system NEC |
| 22492 | PGz2.00 | Unspecified anomaly of bones |
| 28247 | PGz4.00 | Unspecified anomaly of connective tissue |
| 31007 | PH11 | Congenital skin anomalies |
| 27326 | PH00.00 | Congenital lymphoedema |
| 51067 | PH03.00 | Congenital elephantiasis |
| 370 | PH100 | Ichthyosis congenita |
| 36468 | PH10.00 | Congenital ichthyosis, unspecified |
| 11632 | PH12.11 | Sjogren - Larsson syndrome |
| 5555 | PH14.00 | Ichthyosis vulgaris |
| 35335 | PH15.00 | X-linked ichthyosis |
| 64322 | PH1z.00 | Ichthyosis congenita NOS |
| 57526 | PH1z.11 | Congenital ichthyosiform erythroderma |
| 48046 | PH32000 | Congenital poikiloderma |
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| Medcode | Read Code | Description | |
|----------------|--------------------|--|--|
| 40502 | PH33300 | Rothmund-Thomson syndrome | |
| 57510 | PH33312 | Thomson's disease | |
| 60246 | PH3y100 | Congenital scar | |
| 36991 | PH3y300 | Congenital keratoderma | |
| 37798 | PH3y700 | Epidermolysis bullosa simplex | |
| 16618 | PH40.00 | Congenital alopecia | |
| 59553 | PH40.11 | Congenital atrichosis | |
| 104030 | PH40000 | Congenital alopecia, unspecified | |
| 92345 | PH40100 | Congenital localised alopecia | |
| 68179 | PH40200 | Congenital generalised alopecia | |
| 98667 | PH40z00 | Congenital alopecia NOS | |
| 46296 | PH41.00 | Congenital monilethrix | |
| 30154 | PH42.00 | Congenital hypertrichosis | |
| 32621 | PH52.00 | Congenital koilonychia | |
| 95805 | PH52.00 PH53.00 | Congenital leukonychia | |
| 95805 66070 | PH53.00 PH54.00 | Congenital neukonychia Congenital onychauxis | |
| 35067 | PH54.00 PH55.00 | Congenital pachyonychia | |
| 65092 | PH55.00 PH6X.00 | Congenital pacifyonycina Congenital malformation of breast, unspecified | |
| | | | |
| 54223 | PHz0.11 | Congenital dermal defect | |
| 27676 | PHz2.11 | Congenital deformity of nail | |
| 671 | PJ00 | Chromosomal anomalies | |
| 1543 | PJ000 | Down's syndrome - trisomy 21 | |
| 23489 | PJ011 | Mongolism | |
| 18415 | PJ012 | Trisomy 21 | |
| 42701 | PJ00.00 | Trisomy 21, meiotic nondisjunction | |
| 32010 | PJ01.00 | Trisomy 21, mosaicism | |
| 107919 | PJ01.11 | Trisomy 21, mitotic nondisjunction | |
| 61499 | PJ02.00 | Trisomy 21, translocation | |
| 101309 | PJ02.11 | Partial trisomy 21 in Down's syndrome | |
| 10759 | PJOz.00 | Down's syndrome NOS | |
| 61627 | PJOz.11 | Trisomy 21 NOS | |
| 37105 | PJ300 | Monosomies and deletions from the autosomes | |
| 57806 | PJ30.11 | Deletion of long arm of chromosome 21 | |
| 31795 | PJ31.00 | Cri-du-chat syndrome | |
| 98941 | PJ31.11 | Deletion of short arm of chromosome 5 | |
| 66566 | PJ32.00 | Deletion of short arm of chromosome 4 | |
| 67298 | PJ33000 | Deletion of long arm of chromosome 13 | |
| 95440 | PJ33100 | Deletion of long arm of chromosome 18 | |
| 97927 | PJ33200 | Deletion of short arm of chromosome 18 | |
| 36871 | PJ33300 | Smith-Magenis syndrome | |
| 100507 | PJ33400 | Jacobsen syndrome | |
| 104196 | PJ33800 | Chromosome 4q deletion syndrome | |
| 68256 | PJ36.00 | Whole chromosome monosomy, meiotic nondisjunction | |
| 95598 | PJ37.00 | Whole chromosome monosomy, mosaicism | |
| 67815 | PJ37z00 | Whole chromosome monosomy, mosaicism NOS | |
| 100562 | PJ38.00 | Chromosome replaced with ring or dicentric | |
| 106938 | PJ38.11 | Chromosome replaced with dicentric | |

| Medcode | Read Code | Description |
|---------|-----------|---|
| 47247 | PJ38.12 | Chromosome replaced with ring |
| 12841 | PJ3y000 | Shprintzen syndrome |
| 98395 | PJ3z.00 | Monosomies and deletions from the autosomes NOS |
| 37702 | PJ50.00 | Whole chromosome trisomy syndromes |
| 37591 | PJ50100 | Trisomy 7 |
| 70198 | PJ50600 | Trisomy 12 |
| 100024 | PJ50800 | Trisomy 22 |
| 107670 | PJ50w00 | Whole chromosome trisomy, meitotic nondisjunction |
| 45512 | PJ50x00 | Whole chromosome trisomy, mosaicism |
| 101982 | PJ50z00 | Whole chromosome trisomy syndrome NOS |
| 19062 | PJ51.00 | Partial trisomy syndromes |
| 71815 | PJ51000 | Major partial trisomy |
| 100174 | PJ51z00 | Partial trisomy syndrome NOS |
| 54377 | PJ52.00 | Trisomies of autosomes NEC |
| 34913 | PJ52300 | Triploidy |
| 107119 | PJ52z00 | Trisomy of autosomes NEC NOS |
| 54241 | PJ53000 | Chromosome inversion in normal individual |
| 62041 | PJ53500 | Shwachman-Diamond syndrome |
| 71029 | PJ5z.00 | Unspecified conditions due to autosomal anomalies |
| 61407 | PJ5z.11 | Aneuploidy NEC |
| 73492 | PJ60.00 | Mixed gonadal dysgenesis |
| 4943 | PJ63.00 | Turner's syndrome |
| 98244 | PJ63000 | Turner's phenotype, karyotype normal |
| 30721 | PJ63100 | Turner's phenotype, karyotype 45X |
| 92599 | PJ63200 | Turner's phenotype, karyotype 46X iso (Xq) |
| 109385 | PJ63300 | Turner's,karyotype 46X + abnorm. sex chromosome,not iso(Xq) |
| 51868 | PJ63400 | Turner's phenotype, mosaicism 45X/46XX or 45X/46XY |
| 40570 | PJ63500 | Turner's, mosaic, 45X/other cell line with abn.sex chromosome |
| 65206 | PJ63600 | Turner's phenotype, other variant karyotypes |
| 97871 | PJ63611 | Turner's phenotype, ring chromosome karyotype |
| 64945 | PJ63612 | Turner's phenotype, partial X deletion karyotype |
| 53168 | PJ63z00 | Turner's syndrome NOS |
| 41152 | PJ64000 | XY, female phenotype |
| 54490 | PJ70.00 | Klinefelter's phenotype, karyotype 47XXY |
| 67854 | PJ71.00 | Klinefelter's syndrome, male with more than two X chromosomes |
| 56545 | PJ71.11 | Klinefelter's syndrome, XXXY |
| 62414 | PJ71.12 | Klinefelter's syndrome, XXXXY |
| 96257 | PJ72.00 | Klinefelter's syndrome, male with 46XX karyotype |
| 91262 | PJ73.00 | Klinefelter's syndrome, XXYY |
| 68109 | PJ74.00 | Klinefelter's syndrome, XY/XXY mosaic |
| 59439 | PJ7z.00 | Klinefelter's syndrome NOS |
| 93694 | PJ900 | Mowat-Wilson syndrome |
| 4376 | PJX00 | Sex chromosome abnormality, male phenotype, unspecified |
| 55119 | PJy1.00 | Sex chromosome mosaicism |
| 33269 | PJy1000 | Mosaic XO/XY |
| 32783 | PJy1100 | Mosaic XO/XX |
| 64578 | PJy1200 | Mosaic XY/XXY |
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| Medcode | Read Code | Description |
|---------|--------------|--|
| 105345 | PJy1300 | Mosaic including XXXXY |
| 65983 | PJy1z00 | Sex chromosome mosaicism NOS |
| 32782 | PJy2.00 | XXX syndrome |
| 6377 | PJy2.11 | Triple X female |
| 99213 | , PJy2.12 | Karyotype 47, XXX |
| 11948 | , PJy3.00 | XXY syndrome |
| 23643 | PJy5.00 | Mosaicism, lines with various numbers of X chromosomes |
| 37484 | PJy6.00 | Male with structurally abnormal sex chromosome |
| 102328 | PJyy.11 | Absence of sex chromosome |
| 9768 | PJyy300 | Karyotype 47,XYY |
| 34667 | PJyz.00 | Sex chromosome anomaly NOS |
| 20231 | PJz00 | Chromosomal anomalies NOS |
| 26140 | PJz0.00 | Mosaicism NOS |
| 9665 | PJz1.00 | Additional chromosome NOS |
| 26338 | PK000 | Anomalies of spleen |
| 59741 | PK03.00 | Congenital splenomegaly |
| 71462 | PK06.00 | Hypoplasia of spleen |
| 59625 | PK0z.00 | Anomalies of spleen NOS |
| 25292 | PK100 | Anomalies of adrenal gland |
| 71109 | PK11.00 | Absent adrenal gland |
| 29818 | PK13.00 | Hypoplasia of adrenal gland |
| 95752 | PK15.00 | Aplasia of adrenal gland |
| 107541 | PK1yz00 | Other congenital anomaly of adrenal gland NOS |
| 36064 | , PK1z.00 | Anomalies of adrenal gland NOS |
| 32424 | PK24.00 | Anomalies of pituitary gland |
| 111629 | PK24100 | Congenital absence of pituitary gland |
| 70576 | PK24z00 | Anomaly of pituitary gland NOS |
| 10638 | PK25.00 | Anomalies of thyroid gland NEC |
| 3374 | PK25100 | Congenital absence of thyroid gland |
| 70581 | PK25z00 | Anomaly of thyroid gland NEC NOS |
| 57704 | PK26.00 | Anomalies of thyroglossal duct NEC |
| 39588 | PK27.00 | Anomalies of parathyroid gland NEC |
| 100681 | PK27z00 | Anomaly of parathyroid gland NEC NOS |
| 39366 | PK28.00 | Anomalies of thymus |
| 73987 | PK28100 | Congenital absence of thymus |
| 48842 | PK28z00 | Anomaly of thymus gland NOS |
| 72246 | PK30.00 | Situs inversus, unspecified |
| 47596 | PK30.11 | Transposition of viscera unspecified |
| 43560 | PK31.00 | Situs inversus abdominalis |
| 65785 | PK31.11 | Transposition of abdominal viscera |
| 63861 | PK32.00 | Situs inversus thoracis |
| 110797 | PK34.00 | Situs inversus with levocardia |
| 23513 | PK3z.00 | Situs inversus NOS |
| 15607 | PK60.00 | Peutz - Jegher's syndrome |
| 4749 | PK61.00 | Sturge-Weber syndrome |
| 28443 | PK62.00 | Von Hippel-Lindau syndrome |
| 16530 | PK700 | Multiple congenital anomalies NOS |
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| Medcode | Read Code | Description |
|---------|-----------|--|
| 98724 | PK7z.00 | Multiple congenital anomalies NOS |
| 58981 | PK800 | Congenital malformation syndromes due to known exogen causes |
| 57081 | PK84.00 | Fetal valproate syndrome |
| 107550 | PKy0400 | Marshall-Smith syndrome |
| 57458 | PKy1.11 | Biedl-Bardet syndrome |
| 936 | PKy2.00 | Marfan's syndrome |
| 30187 | PKy5.00 | Congen malformation syndromes affecting facial appearance |
| 49307 | PKy5000 | Oral - facial - digital syndrome |
| 98998 | PKy5011 | Papillon-Leage-Psaume syndrome |
| 67072 | PKy5100 | Mohr's syndrome |
| 70356 | PKy5600 | Marchesani syndrome |
| 111653 | PKy5900 | Oculo-palato-digital syndrome |
| 50508 | PKy5B00 | Costello syndrome |
| 99476 | PKy5H00 | Simpson-Golabi-Behmel syndrome |
| 108543 | PKy5M00 | Oculofaciocardiodental syndrome |
| 67260 | PKy5z00 | Congenital malform syndrome affecting facial appearance NOS |
| 57953 | PKy6.00 | Congenital malformation syndromes with short stature |
| 32868 | PKy6200 | Russell - Silver syndrome |
| 34719 | PKy6400 | Seckel syndrome |
| 22048 | PKy6500 | Aarskog syndrome |
| 57043 | PKy6600 | Dubowitz syndrome |
| 73575 | PKy6z00 | Congenital malformation syndrome with short stature NOS |
| 45548 | PKy7.00 | Congenital malformation syndromes involving limbs |
| 21966 | PKy7100 | Holt - Oram syndrome |
| 10491 | PKy7200 | Klippel - Trenaunay - Weber syndrome |
| 104100 | PKy7311 | Rubinstein-Taybi syndrome |
| 31211 | PKy7A00 | Congenital contractural arachnodactyly |
| 95151 | PKy7z00 | Congenital malformation syndrome involving limbs NOS |
| 97293 | PKy8.00 | Congenital malformation syndromes with other skeletal change |
| 10068 | PKy8000 | Noonan's syndrome |
| 100310 | PKy8z00 | Congenital malformation syndrome+other skeletal changes NOS |
| 94910 | РКу9.00 | Congenital malformation syndromes with metabolic disturbance |
| 24395 | РКу9000 | Alport's syndrome |
| 12357 | PKy9100 | Beckwith's syndrome |
| 32054 | PKy9111 | Wiedemann - Beckwith syndrome |
| 69127 | PKy9211 | Kinky hair syndrome |
| 72742 | PKyG.00 | Men ret congen heart dis blepharophim blepharop hypopl teeth |
| 61322 | PKyG.11 | Ohdo blepharophimosis syndrome |
| 106927 | PKyP.00 | Diab insipidus, diab mell, optic atrophy and deafness |
| 25089 | PKyz100 | Acardia |
| 31853 | PKyz600 | Congenital hemihypertrophy |
| 53820 | PyuA.00 | [X]Chromosomal abnormalities, not elswhere classified |
| 23447 | Q200000 | Cerebral haemorrhage unspecified, due to birth trauma |
| 36559 | Q200011 | Intracerebral haemorrhage in fetus or newborn |
| 44479 | Q200511 | Intracerebral haematoma in fetus or newborn |
| 48731 | Q200700 | Cerebral haemorrhage due to birth injury |
| 15082 | Q215.00 | Severe birth asphyxia - apgar score less than 4 at 1 minute |
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| Medcode | Read Code | Description | |
|---------|-----------|---|--|
| 68903 | Q313400 | Tracheobronchial haemorrhage origin in the perinatal period | |
| 48476 | Q317200 | Wilson-Mikity syndrome | |
| 39079 | Q319.00 | Respiratory failure of newborn | |
| 43003 | Q402000 | Congenital herpes simplex | |
| 70280 | Q402100 | Congenital listeriosis | |
| 69316 | Q402200 | Congenital malaria | |
| 107917 | Q402311 | Congenital hydrocephalus due to toxoplasmosis | |
| 55957 | Q402400 | Congenital tuberculosis | |
| 52576 | Q402500 | Congenital falciparum malaria | |
| 67779 | Q409.00 | Congenital viral hepatitis | |
| 40762 | Q409000 | Congenital hepatitis A infection | |
| 50245 | Q409100 | Congenital hepatitis B infection | |
| 107622 | Q409z00 | Congenital viral hepatitis NOS | |
| 106080 | Q40V.00 | Congenital infectious and parasitic disease, unspecified | |
| 93368 | Q40X.00 | Congenital viral disease, unspecified | |
| 31452 | Q424.00 | Kernicterus due to isoimmunisation | |
| 48012 | Q437.00 | Kernicterus not due to isoimmunisation | |
| 61800 | Q437z00 | Kernicterus of newborn NOS | |
| 65686 | Q444.12 | Neonatal hypoparathroidism | |
| 106500 | Q44A.00 | Neonatal hypoparathyroidism | |
| 68850 | Q454000 | Polycythaemia due to donor twin transfusion | |
| 64182 | Q454z00 | Polycythaemia neonatorum NOS | |
| 31248 | Q455.00 | Congenital anaemia | |
| 99494 | Q455000 | Congenital anaemia from fetal blood loss | |
| 57813 | Q466100 | Congenital faecoliths causing obstruction | |
| 13304 | Q480.12 | Seizures in newborn | |
| 56614 | Q488.00 | Neonatal cerebral ischaemia | |
| 48202 | Q48A.00 | Neonatal cerebral leukomalacia | |
| 8722 | Q48y200 | Congenital hypotonia | |
| 26681 | Q48y300 | Congenital hypertonia | |
| 94733 | Q48y500 | Megalencephaly | |
| 34642 | Q48yz11 | Congenital hepatic fibrosis | |
| 46545 | S62z.00 | Cerebral haemorrhage following injury NOS | |
| 40765 | SB00100 | Common carotid artery injury | |
| 63298 | SJ01.00 | Optic chiasm injury | |
| 62286 | SJ21.00 | Thoracic cord injury without spinal bone injury | |
| 102775 | SJ21z00 | Thoracic cord injury without spinal bone injury, NOS | |
| 21483 | SM31000 | Hydrochloric acid causing toxic effect | |
| 101375 | SN51000 | Acquired C1 esterase inhibitor deficiency | |
| 101075 | SN51100 | Hereditary C1 esterase inhibitor deficiency | |
| 32919 | SN5y011 | Malignant hyperthermia due to anaesthesia | |
| 24599 | Z271G11 | Type 1 dip | |
| 44403 | Z271H11 | Type 2 dip | |
| 93788 | Z77C.32 | Physical health handicap | |
| 56376 | Z7CD200 | Learning difficulties | |
| 10890 | Z7E4400 | Cerebellar ataxia | |
| 46999 | Z8811 | Physical health handicap | |

| Medcode | Read Code | Description |
|---------|-----------|---|
| 25990 | ZPA2100 | Special educational needs |
| 105445 | ZR1N.00 | Anomalous sentences repetition test |
| 45726 | ZRq9.00 | Systemic lupus erythematosus disease activity index |
| 22896 | ZS00 | Speech and language disorder |
| 59254 | ZS42100 | Spastic dysarthria |
| 60703 | ZS42111 | Pseudobulbar palsy type of dysarthria |
| 64216 | ZS42113 | Suprabulbar palsy type of dysarthria |
| 38800 | ZS42411 | Ataxic dysarthria |
| 43892 | ZS500 | Speech and language dyspraxias |
| 28845 | ZS600 | Speech and phonology impairments |
| 93178 | ZS78411 | Transcortical motor aphasia |
| 101822 | ZS78600 | Transcortical sensory dysphasia |
| 105929 | ZS78611 | Transcortical sensory aphasia |
| 65074 | ZS78D00 | Wernicke's dysphasia |
| 51158 | ZS78D13 | Wernicke's aphasia |
| 99857 | ZS7C400 | Language disorder associated with right hemisphere damage |
| 32831 | ZS7C600 | Language disorder associated with thought disorder |
| 49889 | ZS82.00 | Acquired epileptic aphasia |
| 59806 | ZS82.11 | Landau-Kleffner syndrome |
| 28543 | ZS91.00 | Attention deficit disorder |
| 24753 | ZS91.12 | [X]Attention deficit disorder |
| 32923 | ZT23.00 | Speech problem |
| 22796 | ZT4C211 | Mute |

ICD-10 Codes

| ICD-10 Code | Description |
|-------------|---|
| A15.0 | Tuberculosis of lung, confirmed by sputum microscopy with or without culture |
| A15.1 | Tuberculosis of lung, confirmed by culture only |
| A15.2 | Tuberculosis of lung, confirmed histologically |
| A15.3 | Tuberculosis of lung, confirmed by unspecified means |
| A15.4 | Tuberculosis of intrathoracic lymph nodes, confirmed bacteriologically and histologically |
| A15.5 | Tuberculosis of larynx, trachea and bronchus, confirmed bacteriologically and histologically |
| A15.6 | Tuberculous pleurisy, confirmed bacteriologically and histologically |
| A15.7 | Primary respiratory tuberculosis, confirmed bacteriologically and histologically |
| A15.8 | Other respiratory tuberculosis, confirmed bacteriologically and histologically |
| A15.9 | Respiratory tuberculosis unspecified, confirmed bacteriologically and histologically |
| A16.0 | Tuberculosis of lung, bacteriologically and histologically negative |
| A16.1 | Tuberculosis of lung, bacteriological and histological examination not done |
| A16.2 | Tuberculosis of lung, without mention of bacteriological or histological confirmation |
| A16.3 | Tuberculosis of intrathoracic lymph nodes, without mention of bacteriological or histological confirmation |
| A16.4 | Tuberculosis of larynx, trachea and bronchus, without mention of bacteriological or histological confirmation |
| A16.5 | Tuberculous pleurisy, without mention of bacteriological or histological confirmation |
| A16.7 | Primary respiratory tuberculosis without mention of bacteriological or histological confirmation |
| A16.8 | Other respiratory tuberculosis, without mention of bacteriological or histological confirmation |
| A16.9 | Respiratory tuberculosis unspecified, without mention of bacteriological or histological confirmation |
| A18.0 | Tuberculosis of bones and joints |
| A18.1 | Tuberculosis of genitourinary system |
| A18.2 | Tuberculous peripheral lymphadenopathy |
| A18.3 | Tuberculosis of intestines, peritoneum and mesenteric glands |
| A18.4 | Tuberculosis of skin and subcutaneous tissue |
| A18.5 | Tuberculosis of eye |
| A18.6 | Tuberculosis of ear |
| A18.7 | Tuberculosis of adrenal glands |
| A18.8 | Tuberculosis of other specified organs |
| A19.0 | Acute miliary tuberculosis of a single specified site |
| A19.1 | Acute miliary tuberculosis of multiple sites |
| A19.2 | Acute miliary tuberculosis, unspecified |
| A19.8 | Other miliary tuberculosis |
| A19.9 | Miliary tuberculosis, unspecified |
| A50.0 | Early congenital syphilis, symptomatic |
| A50.1 | Early congenital syphilis, latent |
| A50.2 | Early congenital syphilis, unspecified |
| A50.3 | Late congenital syphilitic oculopathy |
| A50.4 | Late congenital neurosyphilis [juvenile neurosyphilis] |
| A50.5 | Other late congenital syphilis, symptomatic |
| A50.6 | Late congenital syphilis, latent |

| ICD-10 Code | Description |
|-------------|---|
| A50.7 | Late congenital syphilis, unspecified |
| A50.9 | Congenital syphilis, unspecified |
| A81.2 | Progressive multifocal leukoencephalopathy |
| A81.8 | Other atypical virus infections of central nervous system |
| A81.9 | Atypical virus infection of central nervous system, unspecified |
| B18.0 | Chronic viral hepatitis B with delta-agent |
| B18.1 | Chronic viral hepatitis B without delta-agent |
| B18.2 | Chronic viral hepatitis C |
| B18.8 | Other chronic viral hepatitis |
| B18.9 | Chronic viral hepatitis, unspecified |
| B37.1 | Pulmonary candidiasis |
| B37.5 | Candidal meningitis |
| B37.6 | Candidal endocarditis |
| B37.7 | Candidal sepsis |
| B38.1 | Chronic pulmonary coccidioidomycosis |
| B39.1 | Chronic pulmonary histoplasmosis capsulati |
| B40.1 | Chronic pulmonary blastomycosis |
| B44.0 | Invasive pulmonary aspergillosis |
| B44.7 | Disseminated aspergillosis |
| B45.0 | Pulmonary cryptococcosis |
| B45.1 | Cerebral cryptococcosis |
| B45.2 | Cutaneous cryptococcosis |
| B45.3 | Osseous cryptococcosis |
| B45.7 | Disseminated cryptococcosis |
| B45.8 | Other forms of cryptococcosis |
| B45.9 | Cryptococcosis, unspecified |
| B46.0 | Pulmonary mucormycosis |
| B46.1 | Rhinocerebral mucormycosis |
| B46.2 | Gastrointestinal mucormycosis |
| B46.3 | Cutaneous mucormycosis |
| B46.4 | Disseminated mucormycosis |
| B46.5 | Mucormycosis, unspecified |
| B46.8 | Other zygomycoses |
| B46.9 | Zygomycosis, unspecified |
| B48.7 | Opportunistic mycoses |
| B50.0 | Plasmodium falciparum malaria with cerebral complications |
| B51.0 | Plasmodium vivax malaria with rupture of spleen |
| B52.0 | Plasmodium malariae malaria with nephropathy |
| B55.0 | Visceral leishmaniasis |
| B55.1 | Cutaneous leishmaniasis |
| B55.2 | Mucocutaneous leishmaniasis |
| B55.9 | Leishmaniasis, unspecified |
| B57.2 | Chagas disease (chronic) with heart involvement |
| B57.3 | Chagas disease (chronic) with digestive system involvement |
| B57.4 | Chagas disease (chronic) with nervous system involvement |
| B57.5 | Chagas disease (chronic) with other organ involvement |
| B58.0 | Toxoplasma oculopathy |
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| ICD-10 Code | Description | |
|-------------|---|--|
| B59 | Pneumocystosis | |
| B67.0 | Echinococcus granulosus infection of liver | |
| B67.1 | Echinococcus granulosus infection of lung | |
| B67.2 | Echinococcus granulosus infection of bone | |
| B67.3 | Echinococcus granulosus infection, other and multiple sites | |
| B67.4 | Echinococcus granulosus infection, unspecified | |
| B67.5 | Echinococcus multilocularis infection of liver | |
| B67.6 | Echinococcus multilocularis infection, other and multiple sites | |
| B67.7 | Echinococcus multilocularis infection, unspecified | |
| B67.8 | Echinococcosis, unspecified, of liver | |
| B67.9 | Echinococcosis, other and unspecified | |
| B69.0 | Cysticercosis of central nervous system | |
| B69.1 | Cysticercosis of eye | |
| B69.8 | Cysticercosis of other sites | |
| B69.9 | Cysticercosis, unspecified | |
| B73 | Onchocerciasis | |
| B74.0 | Filariasis due to Wuchereria bancrofti | |
| B74.1 | Filariasis due to Brugia malayi | |
| B74.2 | Filariasis due to Brugia timori | |
| B74.3 | Loiasis | |
| B74.4 | Mansonelliasis | |
| B74.8 | Other filariases | |
| B74.9 | Filariasis, unspecified | |
| B78.7 | Disseminated strongyloidiasis | |
| B90.0 | Sequelae of central nervous system tuberculosis | |
| B90.1 | Sequelae of genitourinary tuberculosis | |
| B90.2 | Sequelae of tuberculosis of bones and joints | |
| B90.8 | Sequelae of tuberculosis of other organs | |
| B90.9 | Sequelae of respiratory and unspecified tuberculosis | |
| B91 | Sequelae of poliomyelitis | |
| B92 | Sequelae of leprosy | |
| B94.0 | Sequelae of trachoma | |
| B94.1 | Sequelae of viral encephalitis | |
| B94.2 | Sequelae of viral hepatitis | |
| B94.8 | Sequelae of other specified infectious and parasitic diseases | |
| B94.9 | Sequelae of unspecified infectious or parasitic disease | |
| D00.0 | Carcinoma in situ: Lip, oral cavity and pharynx | |
| D00.1 | Carcinoma in situ: Oesophagus | |
| D00.2 | Carcinoma in situ: Stomach | |
| D01.0 | Carcinoma in situ: Colon | |
| D01.1 | Carcinoma in situ: Rectosigmoid junction | |
| D01.2 | Carcinoma in situ: Rectum | |
| D01.3 | Carcinoma in situ: Anus and anal canal | |
| D01.4 | Carcinoma in situ: Other and unspecified parts of intestine | |
| D01.5 | Carcinoma in situ: Liver, gallbladder and bile ducts | |
| | | |
| D01.7 | Carcinoma in situ: Other specified digestive organs | |

| ICD-10 Code | Description |
|-------------|---|
| D02.0 | Carcinoma in situ: Larynx |
| D02.1 | Carcinoma in situ: Trachea |
| D02.2 | Carcinoma in situ: Bronchus and lung |
| D02.3 | Carcinoma in situ: Other parts of respiratory system |
| D02.4 | Carcinoma in situ: Respiratory system, unspecified |
| D05.0 | Lobular carcinoma in situ |
| D05.1 | Intraductal carcinoma in situ |
| D05.7 | Other carcinoma in situ of breast |
| D05.9 | Carcinoma in situ of breast, unspecified |
| D06.0 | Carcinoma in situ: Endocervix |
| D06.1 | Carcinoma in situ: Exocervix |
| D06.7 | Carcinoma in situ: Other parts of cervix |
| D06.9 | Carcinoma in situ: Cervix, unspecified |
| D07.0 | Carcinoma in situ: Endometrium |
| D07.1 | Carcinoma in situ: Vulva |
| D07.2 | Carcinoma in situ: Vagina |
| D07.3 | Carcinoma in situ: Other and unspecified female genital organs |
| D07.4 | Carcinoma in situ: Penis |
| D07.5 | Carcinoma in situ: Prostate |
| D07.6 | Carcinoma in situ: Other and unspecified male genital organs |
| D09.0 | Carcinoma in situ: Bladder |
| D09.1 | Carcinoma in situ: Other and unspecified urinary organs |
| D09.2 | Carcinoma in situ: Eye |
| D09.3 | Carcinoma in situ: Thyroid and other endocrine glands |
| D09.7 | Carcinoma in situ of other specified sites |
| D09.9 | Carcinoma in situ, unspecified |
| D12.0 | Benign neoplasm: Caecum |
| D12.1 | Benign neoplasm: Appendix |
| D12.2 | Benign neoplasm: Ascending colon |
| D12.3 | Benign neoplasm: Transverse colon |
| D12.4 | Benign neoplasm: Descending colon |
| D12.5 | Benign neoplasm: Sigmoid colon |
| D12.6 | Benign neoplasm: Colon, unspecified |
| D12.7 | Benign neoplasm: Rectosigmoid junction |
| D12.8 | Benign neoplasm: Rectum |
| D12.9 | Benign neoplasm: Anus and anal canal |
| D13.0 | Benign neoplasm: Oesophagus |
| D13.1 | Benign neoplasm: Stomach |
| D13.2 | Benign neoplasm: Duodenum |
| D13.3 | Benign neoplasm: Other and unspecified parts of small intestine |
| D13.4 | Benign neoplasm: Liver |
| D13.5 | Benign neoplasm: Extrahepatic bile ducts |
| D13.6 | Benign neoplasm: Pancreas |
| D13.7 | Benign neoplasm: Endocrine pancreas |
| D13.9 | Benign neoplasm: Ill-defined sites within the digestive system |
| D13.5 | Benign neoplasm: Larynx |
| D14.2 | Benign neoplasm: Trachea |
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| ICD-10 Code | Description | |
|-------------|---|--|
| D14.3 | Benign neoplasm: Bronchus and lung | |
| D14.4 | Benign neoplasm: Respiratory system, unspecified | |
| D15.0 | Benign neoplasm: Thymus | |
| D15.2 | Benign neoplasm: Mediastinum | |
| D15.7 | Benign neoplasm: Other specified intrathoracic organs | |
| D15.9 | Benign neoplasm: Intrathoracic organ, unspecified | |
| D15.1 | Benign neoplasm: Heart | |
| D20.0 | Benign neoplasm: Retroperitoneum | |
| D20.1 | Benign neoplasm: Peritoneum | |
| D32.0 | Benign neoplasm: Cerebral meninges | |
| D32.1 | Benign neoplasm: Spinal meninges | |
| D34 | Benign neoplasm of thyroid gland | |
| D35.0 | Benign neoplasm: Adrenal gland | |
| D35.1 | Benign neoplasm: Parathyroid gland | |
| D35.2 | Benign neoplasm: Pituitary gland | |
| D35.3 | Benign neoplasm: Craniopharyngeal duct | |
| D35.4 | Benign neoplasm: Pineal gland | |
| D35.5 | Benign neoplasm: Carotid body | |
| D35.6 | Benign neoplasm: Aortic body and other paraganglia | |
| D35.7 | Benign neoplasm: Other specified endocrine glands | |
| D35.8 | Benign neoplasm: Pluriglandular involvement | |
| D35.9 | Benign neoplasm: Endocrine gland, unspecified | |
| D37.0 | Neoplasm of uncertain or unknown behaviour: Lip, oral cavity and pharynx | |
| D37.1 | Neoplasm of uncertain or unknown behaviour: Stomach | |
| D37.2 | Neoplasm of uncertain or unknown behaviour: Small intestine | |
| D37.3 | Neoplasm of uncertain or unknown behaviour: Appendix | |
| D37.4 | Neoplasm of uncertain or unknown behaviour: Colon | |
| D37.5 | Neoplasm of uncertain or unknown behaviour: Rectum | |
| D37.6 | Neoplasm of uncertain or unknown behaviour: Liver, gallbladder and bile ducts | |
| D37.7 | Neoplasm of uncertain or unknown behaviour: Other digestive organs | |
| D37.9 | Neoplasm of uncertain or unknown behaviour: Digestive organ, unspecified | |
| D38.0 | Neoplasm of uncertain or unknown behaviour: Larynx | |
| D38.1 | Neoplasm of uncertain or unknown behaviour: Trachea, bronchus and lung | |
| D38.2 | Neoplasm of uncertain or unknown behaviour: Pleura | |
| D38.3 | Neoplasm of uncertain or unknown behaviour: Mediastinum | |
| D38.4 | Neoplasm of uncertain or unknown behaviour: Thymus | |
| D38.5 | Neoplasm of uncertain or unknown behaviour: Other respiratory organs | |
| D38.6 | Neoplasm of uncertain or unknown behaviour: Respiratory organ, unspecified | |
| D39.0 | Neoplasm of uncertain or unknown behaviour: Uterus | |
| D39.1 | Neoplasm of uncertain or unknown behaviour: Ovary | |
| D39.2 | Neoplasm of uncertain or unknown behaviour: Placenta | |
| D39.7 | Neoplasm of uncertain or unknown behaviour: Other female genital organs | |
| D39.9 | Neoplasm of uncertain or unknown behaviour: Female genital organ, unspecified | |
| D40.0 | Neoplasm of uncertain or unknown behaviour: Prostate | |
| D40.1 | Neoplasm of uncertain or unknown behaviour: Testis | |
| D40.7 | Neoplasm of uncertain or unknown behaviour: Other male genital organs | |
| | | |

| ICD-10 Code | Description |
|-------------|--|
| D41.0 | Neoplasm of uncertain or unknown behaviour: Kidney |
| D41.1 | Neoplasm of uncertain or unknown behaviour: Renal pelvis |
| D41.2 | Neoplasm of uncertain or unknown behaviour: Ureter |
| D41.3 | Neoplasm of uncertain or unknown behaviour: Urethra |
| D41.4 | Neoplasm of uncertain or unknown behaviour: Bladder |
| D41.7 | Neoplasm of uncertain or unknown behaviour: Other urinary organs |
| D41.9 | Neoplasm of uncertain or unknown behaviour: Urinary organ, unspecified |
| D42.0 | Neoplasm of uncertain or unknown behaviour: Cerebral meninges |
| D42.1 | Neoplasm of uncertain or unknown behaviour: Spinal meninges |
| D42.9 | Neoplasm of uncertain or unknown behaviour: Meninges, unspecified |
| D44.0 | Neoplasm of uncertain or unknown behaviour: Thyroid gland |
| D44.1 | Neoplasm of uncertain or unknown behaviour: Adrenal gland |
| D44.2 | Neoplasm of uncertain or unknown behaviour: Parathyroid gland |
| D44.3 | Neoplasm of uncertain or unknown behaviour: Pituitary gland |
| D44.5 | Neoplasm of uncertain or unknown behaviour: Pineal gland |
| D44.7 | Neoplasm of uncertain or unknown behaviour: Aortic body and other paraganglia |
| D44.8 | Neoplasm of uncertain or unknown behaviour: Pluriglandular involvement |
| D44.9 | Neoplasm of uncertain or unknown behaviour: Endocrine gland, unspecified |
| D45 | Polycythaemia vera |
| D46.0 | Refractory anaemia without ring sideroblasts, so stated |
| D46.1 | Refractory anaemia with ring sideroblasts |
| D46.2 | Refractory anaemia with excess of blasts |
| D46.4 | Refractory anaemia, unspecified |
| D46.5 | Refractory anaemia with multi-lineage dysplasia |
| D46.6 | Myelodysplastic syndrome with isolated del(5q) chromosomal abnormality |
| D46.7 | Other myelodysplastic syndromes |
| D46.9 | Myelodysplastic syndrome, unspecified |
| D47.0 | Histiocytic and mast cell tumours of uncertain and unknown behaviour |
| D47.1 | Chronic myeloproliferative disease |
| D47.2 | Monoclonal gammopathy of undetermined significance (MGUS) |
| D47.3 | Essential (haemorrhagic) thrombocythaemia |
| D47.4 | Osteomyelofibrosis |
| D47.5 | Chronic eosinophilic leukaemia [hypereosinophilic syndrome] |
| D47.7 | Other specified neoplasms of uncertain or unknown behaviour of lymphoid, haematopoietic and related tissue |
| D47.9 | Neoplasm of uncertain or unknown behaviour of lymphoid, haematopoietic and related tissue, unspecified |
| D55.0 | Anaemia due to glucose-6-phosphate dehydrogenase [G6PD] deficiency |
| D55.1 | Anaemia due to other disorders of glutathione metabolism |
| D55.2 | Anaemia due to disorders of glycolytic enzymes |
| D55.3 | Anaemia due to disorders of nucleotide metabolism |
| D55.8 | Other anaemias due to enzyme disorders |
| D55.9 | Anaemia due to enzyme disorder, unspecified |
| D56.0 | Alpha thalassaemia |
| D56.2 | Delta-beta thalassaemia |
| D56.4 | Hereditary persistence of fetal haemoglobin [HPFH] |
| D56.8 | Other thalassaemias |

| ICD-10 Code | Description |
|-------------|--|
| D56.9 | Thalassaemia, unspecified |
| D57.0 | Sickle-cell anaemia with crisis |
| D57.1 | Sickle-cell anaemia without crisis |
| D57.2 | Double heterozygous sickling disorders |
| D57.8 | Other sickle-cell disorders |
| D58.0 | Hereditary spherocytosis |
| D58.1 | Hereditary elliptocytosis |
| D58.2 | Other haemoglobinopathies |
| D58.8 | Other specified hereditary haemolytic anaemias |
| D58.9 | Hereditary haemolytic anaemia, unspecified |
| D63.0 | Anaemia in neoplastic disease |
| D63.8 | Anaemia in other chronic diseases classified elsewhere |
| D66 | Hereditary factor VIII deficiency |
| D68.0 | Von Willebrand disease |
| D68.1 | Hereditary factor XI deficiency |
| D68.2 | Hereditary deficiency of other clotting factors |
| D68.4 | Acquired coagulation factor deficiency |
| D68.5 | Primary Thrombophilia |
| D68.6 | Other Thrombophilia |
| D68.8 | Other specified coagulation defects |
| D68.9 | Coagulation defect, unspecified |
| D69.0 | Allergic purpura |
| D69.1 | Qualitative platelet defects |
| D69.2 | Other nonthrombocytopenic purpura |
| D69.3 | Idiopathic thrombocytopenic purpura |
| D69.4 | Other primary thrombocytopenia |
| D69.5 | Secondary thrombocytopenia |
| D69.6 | Thrombocytopenia, unspecified |
| D69.8 | Other specified haemorrhagic conditions |
| D69.9 | Haemorrhagic condition, unspecified |
| D71 | Functional disorders of polymorphonuclear neutrophils |
| D72.0 | Genetic anomalies of leukocytes |
| D72.1 | Eosinophilia |
| D72.8 | Other specified disorders of white blood cells |
| D72.9 | Disorder of white blood cells, unspecified |
| D73.0 | Hyposplenism |
| D73.1 | Hypersplenism |
| D73.2 | Chronic congestive splenomegaly |
| D73.3 | Abscess of spleen |
| D73.4 | Cyst of spleen |
| D73.5 | Infarction of spleen |
| D73.8 | Other diseases of spleen |
| D73.9 | Disease of spleen, unspecified |
| D74.0 | Congenital methaemoglobinaemia |
| D74.8 | Other methaemoglobinaemias |
| D74.9 | Methaemoglobinaemia, unspecified |
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| ICD-10 Code | Description |
|-------------|--|
| D75.1 | Secondary polycythaemia |
| D75.8 | Other specified diseases of blood and blood-forming organs |
| D75.9 | Disease of blood and blood-forming organs, unspecified |
| D76.1 | Haemophagocytic lymphohistiocytosis |
| D76.2 | Haemophagocytic syndrome, infection-associated |
| D76.3 | Other histiocytosis syndromes |
| D80.0 | Hereditary hypogammaglobulinaemia |
| D80.1 | Nonfamilial hypogammaglobulinaemia |
| D80.2 | Selective deficiency of immunoglobulin A [IgA] |
| D80.3 | Selective deficiency of immunoglobulin G [IgG] subclasses |
| D80.4 | Selective deficiency of immunoglobulin M [IgM] |
| D80.8 | Other immunodeficiencies with predominantly antibody defects |
| D80.9 | Immunodeficiency with predominantly antibody defects, unspecified |
| D82.0 | Wiskott-Aldrich syndrome |
| D82.2 | Immunodeficiency with short-limbed stature |
| D82.3 | Immunodeficiency following hereditary defective response to Epstein-Barr virus |
| D82.4 | Hyperimmunoglobulin E [IgE] syndrome |
| D82.5 | |
| D82.6 | |
| D82.7 | |
| D82.8 | Immunodeficiency associated with other specified major defects |
| D82.9 | Immunodeficiency associated with major defect, unspecified |
| D84.0 | Lymphocyte function antigen-1 [LFA-1] defect |
| D84.1 | Defects in the complement system |
| D84.8 | Other specified immunodeficiencies |
| D84.9 | Immunodeficiency, unspecified |
| E00.0 | Congenital iodine-deficiency syndrome, neurological type |
| E00.1 | Congenital iodine-deficiency syndrome, myxoedematous type |
| E00.2 | Congenital iodine-deficiency syndrome, mixed type |
| E00.9 | Congenital iodine-deficiency syndrome, unspecified |
| E03.0 | Congenital hypothyroidism with diffuse goitre |
| E03.1 | Congenital hypothyroidism without goitre |
| E07.1 | Dyshormogenetic goitre |
| E10 | Type 1 diabetes mellitus |
| E11 | Type 2 diabetes mellitus |
| E12 | Malnutrition-related diabetes mellitus |
| E13 | Other specified diabetes mellitus |
| E14 | Unspecified diabetes mellitus |
| E22.0 | Acromegaly and pituitary gigantism |
| E23.0 | Hypopituitarism |
| E24.4 | Alcohol-induced pseudo-Cushing syndrome |
| E25.0 | Congenital adrenogenital disorders associated with enzyme deficiency |
| E25.8 | Other adrenogenital disorders |
| E25.9 | Adrenogenital disorder, unspecified |
| E26.8 | Other hyperaldosteronism |
| E29.1 | Testicular hypofunction |
| E31.1 | Polyglandular hyperfunction |
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| ICD-10 Code | Description |
|-------------|---|
| E31.8 | Other polyglandular dysfunction |
| E31.9 | Polyglandular dysfunction, unspecified |
| E34.0 | Carcinoid syndrome |
| E34.1 | Other hypersecretion of intestinal hormones |
| E34.2 | Ectopic hormone secretion, not elsewhere classified |
| E34.5 | Androgen resistance syndrome |
| E35.0 | Disorders of thyroid gland in diseases classified elsewhere |
| E66.0 | Obesity due to excess calories |
| E66.1 | Drug-induced obesity |
| E66.2 | Extreme obesity with alveolar hypoventilation |
| E66.8 | Other obesity |
| E66.9 | Obesity, unspecified |
| E70.0 | Classical phenylketonuria |
| E70.3 | Albinism |
| E70.8 | Other disorders of aromatic amino-acid metabolism |
| E70.9 | Disorder of aromatic amino-acid metabolism, unspecified |
| E78.0 | Pure hypercholesterolaemia |
| E78.1 | Pure hyperglyceridaemia |
| E78.2 | Mixed hyperlipidaemia |
| E78.3 | Hyperchylomicronaemia |
| E78.4 | Other hyperlipidaemia |
| E78.5 | Hyperlipidaemia, unspecified |
| E78.6 | Lipoprotein deficiency |
| E78.8 | Other disorders of lipoprotein metabolism |
| E78.9 | Disorder of lipoprotein metabolism, unspecified |
| E79.8 | Other disorders of purine and pyrimidine metabolism |
| E79.9 | Disorder of purine and pyrimidine metabolism, unspecified |
| E80.0 | Hereditary erythropoietic porphyria |
| E80.1 | Porphyria cutanea tarda |
| E80.2 | Other porphyria |
| E80.3 | Defects of catalase and peroxidase |
| E80.5 | Crigler-Najjar syndrome |
| E80.7 | Disorder of bilirubin metabolism, unspecified |
| E83.1 | Disorders of iron metabolism |
| E83.2 | Disorders of zinc metabolism |
| E83.3 | Disorders of phosphorus metabolism and phosphatases |
| E83.4 | Disorders of magnesium metabolism |
| E83.5 | Disorders of calcium metabolism |
| E83.8 | Other disorders of mineral metabolism |
| E83.9 | Disorder of mineral metabolism, unspecified |
| E85.0 | Non-neuropathic heredofamilial amyloidosis |
| E85.1 | Neuropathic heredofamilial amyloidosis |
| E85.2 | Heredofamilial amyloidosis, unspecified |
| E85.3 | Secondary systemic amyloidosis |
| E85.4 | Organ-limited amyloidosis |
| E85.8 | Other amyloidosis |
| | Amyloidosis, unspecified |

| ICD-10 Code | Description |
|-------------|---|
| E88.2 | Lipomatosis, not elsewhere classified |
| E88.3 | Tumour lysis syndrome |
| E88.8 | Other specified metabolic disorders |
| E88.9 | Metabolic disorder, unspecified |
| F00.0 | Dementia in Alzheimer disease with early onset |
| F00.1 | Dementia in Alzheimer disease with late onset |
| F00.2 | Dementia in Alzheimer disease, atypical or mixed type |
| F00.9 | Dementia in Alzheimer disease, unspecified |
| F01.0 | Vascular dementia of acute onset |
| F01.1 | Multi-infarct dementia |
| F01.2 | Subcortical vascular dementia |
| F01.3 | Mixed cortical and subcortical vascular dementia |
| F01.8 | Other vascular dementia |
| F01.9 | Vascular dementia, unspecified |
| F02.1 | Dementia in Creutzfeldt-Jakob disease |
| F02.2 | Dementia in Huntington disease |
| F02.3 | Dementia in Parkinson disease |
| F02.4 | Dementia in human immunodeficiency virus [HIV] disease |
| F02.8 | Dementia in other specified diseases classified elsewhere |
| F03 | Unspecified dementia |
| F04 | Organic amnesic syndrome, not induced by alcohol and other psychoactive substances |
| F05.0 | Delirium not superimposed on dementia, so described |
| F05.1 | Delirium superimposed on dementia |
| F05.8 | Other delirium |
| F05.9 | Delirium, unspecified |
| F06.0 | Organic hallucinosis |
| F06.1 | Organic catatonic disorder |
| F06.2 | Organic delusional [schizophrenia-like] disorder |
| F06.5 | Organic dissociative disorder |
| F06.6 | Organic emotionally labile [asthenic] disorder |
| F06.7 | Mild cognitive disorder |
| F06.8 | Other specified mental disorders due to brain damage and dysfunction and to physical disease |
| F07.0 | Organic personality disorder |
| F07.1 | Postencephalitic syndrome |
| F07.2 | Postconcussional syndrome |
| F07.8 | Other organic personality and behavioural disorders due to brain disease, damage and dysfunction |
| F07.9 | Unspecified organic personality and behavioural disorder due to brain disease, damage and dysfunction |
| F09 | Unspecified organic or symptomatic mental disorder |
| F10 | Mental and behavioural disorders due to use of alcohol |
| F11 | Mental and behavioural disorders due to use of opioids |
| F12 | Mental and behavioural disorders due to use of cannabinoids |
| F13 | Mental and behavioural disorders due to use of sedatives or hypnotics |
| F14 | Mental and behavioural disorders due to use of cocaine |
| F15 | Mental and behavioural disorders due to use of other stimulants, including caffeine |
| 200 | |

| F16 Mental and behavioural disorders due to use of halucinogens F17 Mental and behavioural disorders due to use of volatile solvents F18 Mental and behavioural disorders due to use of volatile solvents F19 Peranoid schizophrenia F20.0 Paranoid schizophrenia F20.1 Hebephrenic schizophrenia F20.2 Catatonic schizophrenia F20.3 Undifferentiated schizophrenia F20.4 Post-schizophrenia F20.5 Residual schizophrenia F20.6 Simple schizophrenia F20.7 Post-schizophrenia F20.8 Other schizophrenia F20.9 Schizophrenia F20.9 Schizophrenia F21.0 Delusional disorder F22.8 Other schizophrenia F23.9 Persistent delusional disorders F23.9 Persistent delusional disorder without symptoms of schizophrenia F23.4 Acute polymorphic psychotic disorder without symptoms of schizophrenia F23.4 Acute polymorphic psychotic disorder F23.4 Acute and transient psychotic disorder F23.5 Schizophrenia-like psychotic disorder F23.6 Other acute and transient psychotic disorders F23.7 Schizophrenia-like psychotic disorder F23.8 <th>ICD-10 Code</th> <th>Description</th> <th></th> | ICD-10 Code | Description | |
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| F19 Mental and behavioural disorders due to multiple drug use and use of other psychoactive substances F20.0 Paranoid schizophrenia F20.1 Hebephrenic schizophrenia F20.2 Catatonic schizophrenia F20.3 Undifferentiated schizophrenia F20.4 Post-schizophrenia F20.5 Residual schizophrenia F20.6 Simple schizophrenia F20.7 Schizophrenia, unspecified F21.3 Schizophrenia (alsorder F22.0 Delusional disorder F22.0 Delusional disorder F22.9 Persistent delusional disorder, unspecified F23.0 Acute polymorphic psychotic disorder without symptoms of schizophrenia F23.1 Acute polymorphic psychotic disorder F23.3 Other acute predominantly delusional psychotic disorders F23.4 Acute and transient psychotic disorder F23.5 Schizophrenia-like psychotic disorders F23.4 Induced delusional disorder, mapecified F23.4 Acute and transient psychotic disorders F23.5 Schizoaffective disorder, mapecified F24 Indu | F17 | | |
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| F28Other nonorganic psychotic disordersF29Unspecified nonorganic psychosisF30.0HypomaniaF30.1Mania without psychotic symptomsF30.2Mania with psychotic symptomsF30.8Other manic episodesF30.9Manic episode, unspecifiedF31.0Bipolar affective disorder, current episode manic without psychotic symptomsF31.2Bipolar affective disorder, current episode manic with psychotic symptomsF31.3Bipolar affective disorder, current episode manic with psychotic symptomsF31.4Bipolar affective disorder, current episode severe depressionF31.5Bipolar affective disorder, current episode severe depression with psychoticF31.6Bipolar affective disorder, current episode mixedF31.7Bipolar affective disorder, current episode mixed | F25.8 | | |
| F28Other nonorganic psychotic disordersF29Unspecified nonorganic psychosisF30.0HypomaniaF30.1Mania without psychotic symptomsF30.2Mania with psychotic symptomsF30.8Other manic episodesF30.9Manic episode, unspecifiedF31.0Bipolar affective disorder, current episode manic without psychotic symptomsF31.2Bipolar affective disorder, current episode manic with psychotic symptomsF31.3Bipolar affective disorder, current episode manic with psychotic symptomsF31.4Bipolar affective disorder, current episode severe depression without psychotic symptomsF31.5Bipolar affective disorder, current episode severe depression with psychotic symptomsF31.6Bipolar affective disorder, current episode mixedF31.7Bipolar affective disorder, current episode mixed | F25.9 | Schizoaffective disorder, unspecified | |
| F29Unspecified nonorganic psychosisF30.0HypomaniaF30.1Mania without psychotic symptomsF30.2Mania with psychotic symptomsF30.8Other manic episodesF30.9Manic episode, unspecifiedF31.0Bipolar affective disorder, current episode manic without psychotic symptomsF31.1Bipolar affective disorder, current episode manic without psychotic symptomsF31.2Bipolar affective disorder, current episode manic with psychotic symptomsF31.3Bipolar affective disorder, current episode severe depressionF31.4Bipolar affective disorder, current episode severe depression without psychotic symptomsF31.5Bipolar affective disorder, current episode severe depression with psychotic symptomsF31.6Bipolar affective disorder, current episode mixedF31.7Bipolar affective disorder, current episode mixed | F28 | · · · · · · · · · · · · · · · · · · · | |
| F30.0HypomaniaF30.1Mania without psychotic symptomsF30.2Mania with psychotic symptomsF30.8Other manic episodesF30.9Manic episode, unspecifiedF31.0Bipolar affective disorder, current episode hypomanicF31.1Bipolar affective disorder, current episode manic without psychotic symptomsF31.2Bipolar affective disorder, current episode manic with psychotic symptomsF31.3Bipolar affective disorder, current episode manic with psychotic symptomsF31.4Bipolar affective disorder, current episode severe depression without psychotic symptomsF31.5Bipolar affective disorder, current episode severe depression with psychotic symptomsF31.6Bipolar affective disorder, current episode mixedF31.7Bipolar affective disorder, current in the provide mixed | F29 | | |
| F30.1Mania without psychotic symptomsF30.2Mania with psychotic symptomsF30.8Other manic episodesF30.9Manic episode, unspecifiedF31.0Bipolar affective disorder, current episode hypomanicF31.1Bipolar affective disorder, current episode manic without psychotic symptomsF31.2Bipolar affective disorder, current episode manic with psychotic symptomsF31.3Bipolar affective disorder, current episode mild or moderate depressionF31.4Bipolar affective disorder, current episode severe depression without psychotic symptomsF31.5Bipolar affective disorder, current episode severe depression with psychoticF31.6Bipolar affective disorder, current episode mixedF31.7Bipolar affective disorder, current episode mixed | F30.0 | | |
| F30.2Mania with psychotic symptomsF30.8Other manic episodesF30.9Manic episode, unspecifiedF31.0Bipolar affective disorder, current episode hypomanicF31.1Bipolar affective disorder, current episode manic without psychotic symptomsF31.2Bipolar affective disorder, current episode manic with psychotic symptomsF31.3Bipolar affective disorder, current episode manic with psychotic symptomsF31.4Bipolar affective disorder, current episode severe depression without psychotic symptomsF31.5Bipolar affective disorder, current episode severe depression without psychotic symptomsF31.6Bipolar affective disorder, current episode mixedF31.7Bipolar affective disorder, current episode mixed | F30.1 | | |
| F30.8Other manic episodesF30.9Manic episode, unspecifiedF31.0Bipolar affective disorder, current episode hypomanicF31.1Bipolar affective disorder, current episode manic without psychotic symptomsF31.2Bipolar affective disorder, current episode manic with psychotic symptomsF31.3Bipolar affective disorder, current episode mild or moderate depressionF31.4Bipolar affective disorder, current episode severe depression without psychotic symptomsF31.5Bipolar affective disorder, current episode severe depression with psychotic symptomsF31.6Bipolar affective disorder, current episode mixedF31.7Bipolar affective disorder, currently in remission | | | |
| F30.9Manic episode, unspecifiedF31.0Bipolar affective disorder, current episode hypomanicF31.1Bipolar affective disorder, current episode manic without psychotic symptomsF31.2Bipolar affective disorder, current episode manic with psychotic symptomsF31.3Bipolar affective disorder, current episode mild or moderate depressionF31.4Bipolar affective disorder, current episode severe depression without psychotic symptomsF31.5Bipolar affective disorder, current episode severe depression with psychotic symptomsF31.6Bipolar affective disorder, current episode mixedF31.7Bipolar affective disorder, currently in remission | | | |
| F31.0Bipolar affective disorder, current episode hypomanicF31.1Bipolar affective disorder, current episode manic without psychotic symptomsF31.2Bipolar affective disorder, current episode manic with psychotic symptomsF31.3Bipolar affective disorder, current episode mild or moderate depressionF31.4Bipolar affective disorder, current episode severe depression without psychotic symptomsF31.5Bipolar affective disorder, current episode severe depression with psychotic symptomsF31.6Bipolar affective disorder, current episode mixedF31.7Bipolar affective disorder, currently in remission | | · · | |
| F31.1Bipolar affective disorder, current episode manic without psychotic symptomsF31.2Bipolar affective disorder, current episode manic with psychotic symptomsF31.3Bipolar affective disorder, current episode mild or moderate depressionF31.4Bipolar affective disorder, current episode severe depression without psychotic symptomsF31.5Bipolar affective disorder, current episode severe depression with psychotic symptomsF31.6Bipolar affective disorder, current episode mixedF31.7Bipolar affective disorder, currently in remission | | • • • | |
| F31.2Bipolar affective disorder, current episode manic with psychotic symptomsF31.3Bipolar affective disorder, current episode mild or moderate depressionF31.4Bipolar affective disorder, current episode severe depression without psychotic symptomsF31.5Bipolar affective disorder, current episode severe depression with psychotic symptomsF31.6Bipolar affective disorder, current episode mixedF31.7Bipolar affective disorder, currently in remission | | | |
| F31.3Bipolar affective disorder, current episode mild or moderate depressionF31.4Bipolar affective disorder, current episode severe depression without psychotic symptomsF31.5Bipolar affective disorder, current episode severe depression with psychotic symptomsF31.6Bipolar affective disorder, current episode mixedF31.7Bipolar affective disorder, currently in remission | | | |
| F31.4Bipolar affective disorder, current episode severe depression without psychotic symptomsF31.5Bipolar affective disorder, current episode severe depression with psychotic symptomsF31.6Bipolar affective disorder, current episode mixedF31.7Bipolar affective disorder, currently in remission | | | |
| F31.4symptomsF31.5Bipolar affective disorder, current episode severe depression with psychotic symptomsF31.6Bipolar affective disorder, current episode mixedF31.7Bipolar affective disorder, currently in remission | | | |
| F31.5symptomsF31.6Bipolar affective disorder, current episode mixedF31.7Bipolar affective disorder, currently in remission | F31.4 | symptoms | |
| F31.7 Bipolar affective disorder, currently in remission | F31.5 | | |
| | F31.6 | Bipolar affective disorder, current episode mixed | |
| F31.8 Other bipolar affective disorders | F31.7 | Bipolar affective disorder, currently in remission | |
| | F31.8 | Other bipolar affective disorders | |

| ICD-10 Code | Description |
|-------------|---|
| F31.9 | Bipolar affective disorder, unspecified |
| F42.0 | Predominantly obsessional thoughts or ruminations |
| F42.1 | Predominantly compulsive acts [obsessional rituals] |
| F42.2 | Mixed obsessional thoughts and acts |
| F42.8 | Other obsessive-compulsive disorders |
| F42.9 | Obsessive-compulsive disorder, unspecified |
| F43.0 | Acute stress reaction |
| F43.1 | Post-traumatic stress disorder |
| F43.2 | Adjustment disorders |
| F43.8 | Other reactions to severe stress |
| F43.9 | Reaction to severe stress, unspecified |
| F44.0 | Dissociative amnesia |
| F44.1 | Dissociative fugue |
| F44.2 | Dissociative stupor |
| F44.3 | Trance and possession disorders |
| F44.4 | Dissociative motor disorders |
| F44.5 | Dissociative convulsions |
| F44.6 | Dissociative anaesthesia and sensory loss |
| F44.7 | Mixed dissociative [conversion] disorders |
| F44.8 | Other dissociative [conversion] disorders |
| F44.9 | Dissociative [conversion] disorder, unspecified |
| F45.0 | Somatization disorder |
| F45.1 | Undifferentiated somatoform disorder |
| F45.2 | Hypochondriacal disorder |
| F45.3 | Somatoform autonomic dysfunction |
| F45.4 | Persistent somatoform pain disorder |
| F45.8 | Other somatoform disorders |
| F45.9 | Somatoform disorder, unspecified |
| F48.1 | Depersonalization-derealization syndrome |
| F48.8 | Other specified neurotic disorders |
| F48.9 | Neurotic disorder, unspecified |
| F50.0 | Anorexia nervosa |
| F50.1 | Atypical anorexia nervosa |
| F50.2 | Bulimia nervosa |
| F50.3 | |
| F50.4 | Atypical bulimia nervosa |
| F50.5 | Overeating associated with other psychological disturbances |
| F50.5 | Vomiting associated with other psychological disturbances |
| F50.8 | Other eating disorders |
| 5.061 | Eating disorder, unspecified Mild mental and behavioural disorders associated with the puerperium, not |
| F53.0 | elsewhere classified |
| F53.1 | Severe mental and behavioural disorders associated with the puerperium, not |
| | elsewhere classified |
| F53.8 | Other mental and behavioural disorders associated with the puerperium, not elsewhere classified |
| F53.9 | Puerperal mental disorder, unspecified |
| F54 | Psychological and behavioural factors associated with disorders or diseases classified elsewhere |

| ICD-10 Code | Description |
|-------------|--|
| F70 | Mild mental retardation |
| F71 | Moderate mental retardation |
| F72 | Severe mental retardation |
| F73 | Profound mental retardation |
| F78 | Other mental retardation |
| F79 | Unspecified mental retardation |
| F80.0 | Specific speech articulation disorder |
| F80.1 | Expressive language disorder |
| F80.2 | Receptive language disorder |
| F80.8 | Other developmental disorders of speech and language |
| F80.9 | Developmental disorder of speech and language, unspecified |
| F82 | Specific developmental disorder of motor function |
| F83 | Mixed specific developmental disorders |
| F84.1 | Atypical autism |
| F84.3 | Other childhood disintegrative disorder |
| F84.4 | Overactive disorder associated with mental retardation and stereotyped movements |
| F84.5 | Asperger syndrome |
| F84.6 | |
| F84.8 | Other pervasive developmental disorders |
| F84.9 | Pervasive developmental disorder, unspecified |
| F88 | Other disorders of psychological development |
| F89 | Unspecified disorder of psychological development |
| F90.0 | Disturbance of activity and attention |
| F90.1 | Hyperkinetic conduct disorder |
| F90.8 | Other hyperkinetic disorders |
| F90.9 | Hyperkinetic disorder, unspecified |
| F91.0 | Conduct disorder confined to the family context |
| F91.1 | Unsocialized conduct disorder |
| F91.2 | Socialized conduct disorder |
| F91.3 | Oppositional defiant disorder |
| F91.8 | Other conduct disorders |
| F91.9 | Conduct disorder, unspecified |
| F92.0 | Depressive conduct disorder |
| F92.8 | Other mixed disorders of conduct and emotions |
| F92.9 | Mixed disorder of conduct and emotions, unspecified |
| F93.3 | Sibling rivalry disorder |
| F93.8 | Other childhood emotional disorders |
| F93.9 | Childhood emotional disorder, unspecified |
| F94.0 | Elective mutism |
| F94.1 | Reactive attachment disorder of childhood |
| F94.2 | Disinhibited attachment disorder of childhood |
| F94.8 | Other childhood disorders of social functioning |
| F94.9 | Childhood disorder of social functioning, unspecified |
| F95.0 | Transient tic disorder |
| F95.1 | Chronic motor or vocal tic disorder |
| F95.2 | Combined vocal and multiple motor tic disorder [de la Tourette] |
| F95.8 | Other tic disorders |

| F95.9 F98.0 | |
|----------------|---|
| | Tic disorder, unspecified |
| 1 30.0 | Nonorganic enuresis |
| F98.1 | Nonorganic encopresis |
| F98.2 | Feeding disorder of infancy and childhood |
| F98.3 | Pica of infancy and childhood |
| F98.4 | Stereotyped movement disorders |
| F98.5 | Stuttering [stammering] |
| F98.6 | Cluttering |
| F98.8 | Other specified behavioural and emotional disorders with onset usually occurring in childhood and adolescence |
| F98.9 | Unspecified behavioural and emotional disorders with onset usually occurring in childhood and adolescence |
| G00.0 | Haemophilus meningitis |
| G00.1 | Pneumococcal meningitis |
| G00.2 | Streptococcal meningitis |
| G00.3 | Staphylococcal meningitis |
| G00.8 | Other bacterial meningitis |
| G00.9 | Bacterial meningitis, unspecified |
| G01 | Meningitis in bacterial diseases classified elsewhere |
| G02.0 | Meningitis in viral diseases classified elsewhere |
| G02.1 | Meningitis in mycoses |
| G02.8 | Meningitis in other specified infectious and parasitic diseases classified elsewhere |
| G03.0 | Nonpyogenic meningitis |
| G03.1 | Chronic meningitis |
| G03.2 | Benign recurrent meningitis [Mollaret] |
| G03.8 | Meningitis due to other specified causes |
| G03.9 | Meningitis, unspecified |
| G04.0 | Acute disseminated encephalitis |
| G04.1 | Tropical spastic paraplegia |
| G04.2 | Bacterial meningoencephalitis and meningomyelitis, not elsewhere classified |
| G04.8 | Other encephalitis, myelitis and encephalomyelitis |
| G04.9 | Encephalitis, myelitis and encephalomyelitis, unspecified |
| G05.0 | Encephalitis, myelitis and encephalomyelitis in bacterial diseases classified elsewhere |
| G05.1 | Encephalitis, myelitis and encephalomyelitis in viral diseases classified elsewhere |
| G05.2 | Encephalitis, myelitis and encephalomyelitis in other infectious and parasitic diseases classified elsewhere |
| G05.8 | Encephalitis, myelitis and encephalomyelitis in other diseases classified elsewhere |
| G06.0 | Intracranial abscess and granuloma |
| G06.1 | Intraspinal abscess and granuloma |
| G06.2 | Extradural and subdural abscess, unspecified |
| G07 | Intracranial and intraspinal abscess and granuloma in diseases classified elsewhere |
| G08 | Intracranial and intraspinal phlebitis and thrombophlebitis |
| G09 | Sequelae of inflammatory diseases of central nervous system |
| G11.0 | Congenital nonprogressive ataxia |
| G11.4 | Hereditary spastic paraplegia |
| G11.8 | Other hereditary ataxias |
| G11.9 | Hereditary ataxia, unspecified |
| G13.0 | Paraneoplastic neuromyopathy and neuropathy |
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| ICD-10 Code | Description |
|-------------|---|
| G13.1 | Other systemic atrophy primarily affecting central nervous system in neoplastic |
| G13.2 | disease |
| G13.2 | Systemic atrophy primarily affecting central nervous system in myxoedema Systemic atrophy primarily affecting central nervous system in other diseases |
| G13.8 | classified elsewhere |
| G14 | Postpolio syndrome |
| G21.0 | Malignant neuroleptic syndrome |
| G21.1 | Other drug-induced secondary parkinsonism |
| G21.2 | Secondary parkinsonism due to other external agents |
| G21.3 | Postencephalitic parkinsonism |
| G21.4 | Vascular parkinsonism |
| G21.8 | Other secondary parkinsonism |
| G21.9 | Secondary parkinsonism, unspecified |
| G22 | Parkinsonism in diseases classified elsewhere |
| G23.1 | Progressive supranuclear ophthalmoplegia [Steele-Richardson-Olszewski] |
| G23.2 | Striatonigral degeneration |
| G23.3 | Multiple system atrophy, cerebellar type [MSA-C] |
| G23.9 | Degenerative disease of basal ganglia, unspecified |
| G24.1 | Idiopathic familial dystonia |
| G24.2 | Idiopathic nonfamilial dystonia |
| G24.3 | Spasmodic torticollis |
| G24.4 | Idiopathic orofacial dystonia |
| G24.5 | Blepharospasm |
| G24.8 | Other dystonia |
| G24.9 | Dystonia, unspecified |
| G25.0 | Essential tremor |
| G25.1 | Drug-induced tremor |
| G25.2 | Other specified forms of tremor |
| G25.3 | Myoclonus |
| G25.4 | Drug-induced chorea |
| G25.5 | Other chorea |
| G25.6 | Drug-induced tics and other tics of organic origin |
| G25.8 | Other specified extrapyramidal and movement disorders |
| G25.9 | Extrapyramidal and movement disorder, unspecified |
| G26 | Extrapyramidal and movement disorders in diseases classified elsewhere |
| G30.0 | Alzheimer disease with early onset |
| G30.1 | Alzheimer disease with late onset |
| G30.8 | Other Alzheimer disease |
| G30.9 | Alzheimer disease, unspecified |
| G31.0 | Circumscribed brain atrophy |
| G31.1 | Senile degeneration of brain, not elsewhere classified |
| G31.2 | Degeneration of nervous system due to alcohol |
| G32.0 | Subacute combined degeneration of spinal cord in diseases classified elsewhere |
| G32.8 | Other specified degenerative disorders of nervous system in diseases classified elsewhere |
| G36.0 | Neuromyelitis optica [Devic] |
| G36.1 | Acute and subacute haemorrhagic leukoencephalitis [Hurst] |
| G36.8 | Other specified acute disseminated demyelination |

| ICD-10 Code | Description |
|-------------|--|
| G36.9 | Acute disseminated demyelination, unspecified |
| G37.0 | Diffuse sclerosis |
| G37.1 | Central demyelination of corpus callosum |
| G37.2 | Central pontine myelinolysis |
| G37.3 | Acute transverse myelitis in demyelinating disease of central nervous system |
| G37.4 | Subacute necrotizing myelitis |
| G37.5 | Concentric sclerosis [Baló] |
| G37.8 | Other specified demyelinating diseases of central nervous system |
| G37.9 | Demyelinating disease of central nervous system, unspecified |
| G40.0 | Localization-related (focal)(partial) idiopathic epilepsy and epileptic syndromes with seizures of localized onset |
| G40.1 | Localization-related (focal)(partial) symptomatic epilepsy and epileptic syndromes with simple partial seizures |
| G40.2 | Localization-related (focal)(partial) symptomatic epilepsy and epileptic syndromes with complex partial seizures |
| G40.3 | Generalized idiopathic epilepsy and epileptic syndromes |
| G40.6 | Grand mal seizures, unspecified (with or without petit mal) |
| G40.7 | Petit mal, unspecified, without grand mal seizures |
| G40.8 | Other epilepsy |
| G40.9 | Epilepsy, unspecified |
| G41.0 | Grand mal status epilepticus |
| G41.1 | Petit mal status epilepticus |
| G41.2 | Complex partial status epilepticus |
| G41.8 | Other status epilepticus |
| G41.9 | Status epilepticus, unspecified |
| G43.0 | Migraine without aura [common migraine] |
| G43.1 | Migraine with aura [classical migraine] |
| G43.2 | Status migrainosus |
| G43.3 | Complicated migraine |
| G43.8 | Other migraine |
| G43.9 | Migraine, unspecified |
| G44.0 | Cluster headache syndrome |
| G44.1 | Vascular headache, not elsewhere classified |
| G44.2 | Tension-type headache |
| G44.3 | Chronic post-traumatic headache |
| G44.4 | Drug-induced headache, not elsewhere classified |
| G44.8 | Other specified headache syndromes |
| G45.0 | Vertebro-basilar artery syndrome |
| G45.1 | Carotid artery syndrome (hemispheric) |
| G45.2 | Multiple and bilateral precerebral artery syndromes |
| G45.3 | Amaurosis fugax |
| G45.4 | Transient global amnesia |
| G45.8 | Other transient cerebral ischaemic attacks and related syndromes |
| G45.9 | Transient cerebral ischaemic attack, unspecified |
| G46.0 | Middle cerebral artery syndrome |
| G46.1 | Anterior cerebral artery syndrome |
| G46.2 | Posterior cerebral artery syndrome |
| G46.3 | Brain stem stroke syndrome |
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| ICD-10 Code | Description |
|-------------|--|
| G46.4 | Cerebellar stroke syndrome |
| G46.5 | Pure motor lacunar syndrome |
| G46.6 | Pure sensory lacunar syndrome |
| G46.7 | Other lacunar syndromes |
| G46.8 | Other vascular syndromes of brain in cerebrovascular diseases |
| G47.0 | Disorders of initiating and maintaining sleep [insomnias] |
| G47.1 | Disorders of excessive somnolence [hypersomnias] |
| G47.2 | Disorders of the sleep-wake schedule |
| G47.3 | Sleep apnoea |
| G47.4 | Narcolepsy and cataplexy |
| G47.8 | Other sleep disorders |
| G47.9 | Sleep disorder, unspecified |
| G50.0 | Trigeminal neuralgia |
| G50.1 | Atypical facial pain |
| G50.8 | Other disorders of trigeminal nerve |
| G50.9 | Disorder of trigeminal nerve, unspecified |
| G51.0 | Bell palsy |
| G51.1 | Geniculate ganglionitis |
| G51.2 | Melkersson syndrome |
| G51.3 | Clonic hemifacial spasm |
| G51.4 | Facial myokymia |
| G51.8 | Other disorders of facial nerve |
| G51.9 | Disorder of facial nerve, unspecified |
| G52.0 | Disorders of olfactory nerve |
| G52.1 | Disorders of glossopharyngeal nerve |
| G52.2 | Disorders of vagus nerve |
| G52.3 | Disorders of hypoglossal nerve |
| G52.7 | Disorders of multiple cranial nerves |
| G52.8 | Disorders of other specified cranial nerves |
| G52.9 | Cranial nerve disorder, unspecified |
| G53.0 | Postzoster neuralgia |
| G53.1 | Multiple cranial nerve palsies in infectious and parasitic diseases classified elsewhere |
| G53.2 | Multiple cranial nerve palsies in sarcoidosis |
| G53.3 | Multiple cranial nerve palsies in neoplastic disease |
| G53.8 | Other cranial nerve disorders in other diseases classified elsewhere |
| G54.0 | Brachial plexus disorders |
| G54.1 | Lumbosacral plexus disorders |
| G54.2 | Cervical root disorders, not elsewhere classified |
| G54.3 | Thoracic root disorders, not elsewhere classified |
| G54.4 | Lumbosacral root disorders, not elsewhere classified |
| G54.5 | Neuralgic amyotrophy |
| G54.6 | Phantom limb syndrome with pain |
| G54.7 | Phantom limb syndrome without pain |
| G54.8 | Other nerve root and plexus disorders |
| G54.9 | Nerve root and plexus disorder, unspecified |
| G55.0 | Nerve root and plexus compressions in neoplastic disease |
| G55.1 | Nerve root and plexus compressions in intervertebral disc disorders |

| ICD-10 Code | Description |
|-------------|---|
| G55.2 | Nerve root and plexus compressions in spondylosis |
| G55.3 | Nerve root and plexus compressions in other dorsopathies |
| G55.8 | Nerve root and plexus compressions in other diseases classified elsewhere |
| G56.0 | Carpal tunnel syndrome |
| G56.1 | Other lesions of median nerve |
| G56.2 | Lesion of ulnar nerve |
| G56.3 | Lesion of radial nerve |
| G56.4 | Causalgia |
| G56.8 | Other mononeuropathies of upper limb |
| G56.9 | Mononeuropathy of upper limb, unspecified |
| G57.0 | Lesion of sciatic nerve |
| G57.1 | Meralgia paraesthetica |
| G57.2 | Lesion of femoral nerve |
| G57.3 | Lesion of lateral popliteal nerve |
| G57.4 | Lesion of medial popliteal nerve |
| G57.5 | Tarsal tunnel syndrome |
| G57.6 | Lesion of plantar nerve |
| G57.8 | Other mononeuropathies of lower limb |
| G57.9 | Mononeuropathy of lower limb, unspecified |
| G58.0 | Intercostal neuropathy |
| G58.7 | Mononeuritis multiplex |
| G58.8 | Other specified mononeuropathies |
| G58.9 | Mononeuropathy, unspecified |
| G59.0 | Diabetic mononeuropathy |
| G59.8 | Other mononeuropathies in diseases classified elsewhere |
| G60.2 | Neuropathy in association with hereditary ataxia |
| G60.3 | Idiopathic progressive neuropathy |
| G60.8 | Other hereditary and idiopathic neuropathies |
| G60.9 | Hereditary and idiopathic neuropathy, unspecified |
| G61.0 | Guillain-Barré syndrome |
| G61.1 | Serum neuropathy |
| G61.8 | Other inflammatory polyneuropathies |
| G61.9 | Inflammatory polyneuropathy, unspecified |
| G62.0 | Drug-induced polyneuropathy |
| G62.1 | Alcoholic polyneuropathy |
| G62.2 | Polyneuropathy due to other toxic agents |
| G62.8 | Other specified polyneuropathies |
| G62.9 | Polyneuropathy, unspecified |
| G63.1 | Polyneuropathy in neoplastic disease |
| G63.2 | Diabetic polyneuropathy |
| G63.3 | Polyneuropathy in other endocrine and metabolic diseases |
| G63.5 | Polyneuropathy in systemic connective tissue disorders |
| G63.6 | Polyneuropathy in other musculoskeletal disorders |
| G63.8 | Polyneuropathy in other diseases classified elsewhere |
| G64 | Other disorders of peripheral nervous system |
| G70.0 | Myasthenia gravis |
| G70.1 | Toxic myoneural disorders |
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| G70.8 | Other specified myoneural disorders | |
|-------|---|--|
| G71.8 | Other primary disorders of muscles | |
| G71.9 | Primary disorder of muscle, unspecified | |
| G72.0 | Drug-induced myopathy | |
| G72.1 | Alcoholic myopathy | |
| G72.2 | Myopathy due to other toxic agents | |
| G72.3 | Periodic paralysis | |
| G72.4 | Inflammatory myopathy, not elsewhere classified | |
| G72.8 | Other specified myopathies | |
| G72.9 | Myopathy, unspecified | |
| G73.0 | Myasthenic syndromes in endocrine diseases | |
| G73.1 | Lambert-Eaton syndrome | |
| G73.2 | Other myasthenic syndromes in neoplastic disease | |
| G73.3 | Myasthenic syndromes in other diseases classified elsewhere | |
| G73.5 | Myopathy in endocrine diseases | |
| G73.6 | Myopathy in metabolic diseases | |
| G73.7 | Myopathy in other diseases classified elsewhere | |
| G80.1 | Spastic diplegic cerebral palsy | |
| G80.2 | Spastic hemiplegic cerebral palsy | |
| G80.3 | Dyskinetic cerebral palsy | |
| G80.4 | Ataxic cerebral palsy | |
| G80.9 | Cerebral palsy, unspecified | |
| G81.0 | Flaccid hemiplegia | |
| G81.1 | Spastic hemiplegia | |
| G81.9 | Hemiplegia, unspecified | |
| G82.0 | Flaccid paraplegia | |
| G82.1 | Spastic paraplegia | |
| G82.2 | Paraplegia, unspecified | |
| G83.0 | Diplegia of upper limbs | |
| G83.1 | Monoplegia of lower limb | |
| G83.2 | Monoplegia of upper limb | |
| G83.3 | Monoplegia, unspecified | |
| G83.4 | Cauda equina syndrome | |
| G83.5 | Locked-in syndrome | |
| G83.8 | Other specified paralytic syndromes | |
| G83.9 | Paralytic syndrome, unspecified | |
| G90.0 | Idiopathic peripheral autonomic neuropathy | |
| G90.1 | Familial dysautonomia [Riley-Day] | |
| G90.2 | Horner syndrome | |
| G90.4 | Autonomic dysreflexia | |
| G90.8 | Other disorders of autonomic nervous system | |
| G90.9 | Disorder of autonomic nervous system, unspecified | |
| G91.0 | Communicating hydrocephalus | |
| G91.1 | Obstructive hydrocephalus | |
| G91.2 | Normal-pressure hydrocephalus | |
| | Post-traumatic hydrocephalus, unspecified | |
| G91.3 | Post-tradmatic hydrocephalus, unspecified | |

| G91.9 G92 G93.0 G93.1 G93.2 G93.3 G93.8 G93.9 | Hydrocephalus, unspecifiedToxic encephalopathyCerebral cystsAnoxic brain damage, not elsewhere classifiedBenign intracranial hypertensionPostviral fatigue syndromeOther specified disorders of brainDisorder of brain, unspecified |
|---|---|
| G93.0 G93.1 G93.2 G93.3 G93.8 G93.9 | Cerebral cysts Anoxic brain damage, not elsewhere classified Benign intracranial hypertension Postviral fatigue syndrome Other specified disorders of brain |
| G93.1 G93.2 G93.3 G93.8 G93.9 | Anoxic brain damage, not elsewhere classified Benign intracranial hypertension Postviral fatigue syndrome Other specified disorders of brain |
| G93.2 G93.3 G93.8 G93.9 | Benign intracranial hypertension Postviral fatigue syndrome Other specified disorders of brain |
| G93.3 G93.8 G93.9 | Postviral fatigue syndrome Other specified disorders of brain |
| G93.8 G93.9 | Other specified disorders of brain |
| G93.9 | Other specified disorders of brain |
| | Disorder of brain, unspecified |
| 604.4 | |
| G94.1 | Hydrocephalus in neoplastic disease |
| G94.2 | Hydrocephalus in other diseases classified elsewhere |
| G94.8 | Other specified disorders of brain in diseases classified elsewhere |
| G95.0 | Syringomyelia and syringobulbia |
| G95.1 | Vascular myelopathies |
| G95.2 | Cord compression, unspecified |
| G95.8 | Other specified diseases of spinal cord |
| G95.9 | Disease of spinal cord, unspecified |
| G96.0 | Cerebrospinal fluid leak |
| G96.1 | Disorders of meninges, not elsewhere classified |
| G96.8 | Other specified disorders of central nervous system |
| G96.9 | Disorder of central nervous system, unspecified |
| G99.0 | Autonomic neuropathy in endocrine and metabolic diseases |
| G99.1 | Other disorders of autonomic nervous system in other diseases classified elsewhere |
| G99.2 | Myelopathy in diseases classified elsewhere |
| G99.8 | Other specified disorders of nervous system in diseases classified elsewhere |
| H05.1 | Chronic inflammatory disorders of orbit |
| H05.2 | Exophthalmic conditions |
| H05.3 | Deformity of orbit |
| H05.4 | Enophthalmos |
| H05.5 | Retained (old) foreign body following penetrating wound of orbit |
| H05.8 | Other disorders of orbit |
| H05.9 | Disorder of orbit, unspecified |
| H13.3 | Ocular pemphigoid |
| H17.0 | Adherent leukoma |
| H17.1 | Other central corneal opacity |
| H17.8 | Other corneal scars and opacities |
| H17.9 | Corneal scar and opacity, unspecified |
| H18.0 | Corneal pigmentations and deposits |
| H18.1 | Bullous keratopathy |
| H18.2 | Other corneal oedema |
| H18.3 | Changes in corneal membranes |
| H18.4 | Corneal degeneration |
| H18.5 | Hereditary corneal dystrophies |
| H18.6 | Keratoconus |
| H18.7 | Other corneal deformities |
| H18.8 | Other specified disorders of cornea |
| H18.9 | Disorder of cornea, unspecified |
| H19.3 | Keratitis and keratoconjunctivitis in other diseases classified elsewhere |
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| H21.0 H H21.2 H H21.3 H H21.4 H H21.5 H H21.8 H H21.9 H | Description Hyphaema Degeneration of iris and ciliary body Cyst of iris, ciliary body and anterior chamber Pupillary membranes Other adhesions and disruptions of iris and ciliary body Other specified disorders of iris and ciliary body Disorder of iris and ciliary body, unspecified Infantile, juvenile and presenile cataract |
|---|--|
| H21.2 I H21.3 I H21.4 I H21.5 I H21.8 I H21.9 I | Degeneration of iris and ciliary body Cyst of iris, ciliary body and anterior chamber Pupillary membranes Other adhesions and disruptions of iris and ciliary body Other specified disorders of iris and ciliary body Disorder of iris and ciliary body, unspecified |
| H21.3 () H21.4 () H21.5 () H21.8 () H21.9 () | Cyst of iris, ciliary body and anterior chamber Pupillary membranes Other adhesions and disruptions of iris and ciliary body Other specified disorders of iris and ciliary body Disorder of iris and ciliary body, unspecified |
| H21.4 H H21.5 (H21.8 (H21.9 H | Pupillary membranes Other adhesions and disruptions of iris and ciliary body Other specified disorders of iris and ciliary body Disorder of iris and ciliary body, unspecified |
| H21.5 (H21.8 (H21.9 (| Other adhesions and disruptions of iris and ciliary body Other specified disorders of iris and ciliary body Disorder of iris and ciliary body, unspecified |
| H21.8 (H21.9 [| Other specified disorders of iris and ciliary body Disorder of iris and ciliary body, unspecified |
| H21.9 (| Disorder of iris and ciliary body, unspecified |
| | |
| п20.0 | Infantile, juvenile and presenile cataract |
| | Traumatic cataract |
| | Complicated cataract |
| | Drug-induced cataract |
| | After-cataract |
| | Other specified cataract |
| | Cataract, unspecified |
| | Aphakia |
| | Dislocation of lens |
| | Other specified disorders of lens |
| | Disorder of lens, unspecified |
| H28.0 | Diabetic cataract |
| H28.1 (| Cataract in other endocrine, nutritional and metabolic diseases |
| | Cataract in other diseases classified elsewhere |
| H31.0 (| Chorioretinal scars |
| H31.1 (| Choroidal degeneration |
| H31.2 I | Hereditary choroidal dystrophy |
| H31.3 (| Choroidal haemorrhage and rupture |
| H31.4 (| Choroidal detachment |
| H31.8 (| Other specified disorders of choroid |
| Н31.9 (| Disorder of choroid, unspecified |
| H32.8 (| Other chorioretinal disorders in diseases classified elsewhere |
| H33.0 I | Retinal detachment with retinal break |
| H33.1 I | Retinoschisis and retinal cysts |
| H33.2 9 | Serous retinal detachment |
| Н33.3 | Retinal breaks without detachment |
| H33.4 ⁻ | Traction detachment of retina |
| H33.5 (| Other retinal detachments |
| H34.0 - | Transient retinal artery occlusion |
| H34.1 (| Central retinal artery occlusion |
| H34.2 (| Other retinal artery occlusions |
| H34.8 (| Other retinal vascular occlusions |
| H34.9 | Retinal vascular occlusion, unspecified |
| H35.0 | Background retinopathy and retinal vascular changes |
| H35.1 | Retinopathy of prematurity |
| H35.2 (| Other proliferative retinopathy |
| Н35.3 (| Degeneration of macula and posterior pole |
| H35.4 I | Peripheral retinal degeneration |
| H35.6 I | Retinal haemorrhage |
| H35.7 9 | Separation of retinal layers |

| ICD-10 Code | Description |
|-------------|---|
| H35.8 | Other specified retinal disorders |
| H35.9 | Retinal disorder, unspecified |
| H40.0 | Glaucoma suspect |
| H40.1 | Primary open-angle glaucoma |
| H40.2 | Primary angle-closure glaucoma |
| H40.3 | Glaucoma secondary to eye trauma |
| H40.4 | Glaucoma secondary to eye inflammation |
| H40.5 | Glaucoma secondary to other eye disorders |
| H40.6 | Glaucoma secondary to drugs |
| H40.8 | Other glaucoma |
| H40.9 | Glaucoma, unspecified |
| H42.0 | Glaucoma in endocrine, nutritional and metabolic diseases |
| H43.0 | Vitreous prolapse |
| H43.1 | Vitreous haemorrhage |
| H43.2 | Crystalline deposits in vitreous body |
| H43.3 | Other vitreous opacities |
| H43.8 | Other disorders of vitreous body |
| H43.9 | Disorder of vitreous body, unspecified |
| H44.0 | Purulent endophthalmitis |
| H44.1 | Other endophthalmitis |
| H44.2 | Degenerative myopia |
| H44.3 | Other degenerative disorders of globe |
| H44.4 | Hypotony of eye |
| H44.5 | Degenerated conditions of globe |
| H44.6 | Retained (old) intraocular foreign body, magnetic |
| H44.7 | Retained (old) intraocular foreign body, nonmagnetic |
| H44.8 | Other disorders of globe |
| H44.9 | Disorder of globe, unspecified |
| H47.0 | Disorders of optic nerve, not elsewhere classified |
| H47.1 | Papilloedema, unspecified |
| H47.3 | Other disorders of optic disc |
| H47.4 | Disorders of optic chiasm |
| H47.5 | Disorders of other visual pathways |
| H47.6 | Disorders of visual cortex |
| H47.7 | Disorder of visual pathways, unspecified |
| H54.0 | Blindness, binocular |
| H54.1 | Severe visual impairment, binocular |
| H54.2 | Moderate visual impairment, binocular |
| H54.4 | Blindness, monocular |
| H60.2 | Malignant otitis externa |
| H65.2 | Chronic serous otitis media |
| H65.3 | Chronic mucoid otitis media |
| H65.4 | Other chronic nonsuppurative otitis media |
| H66.1 | Chronic tubotympanic suppurative otitis media |
| H66.2 | Chronic atticoantral suppurative otitis media |
| H66.3 | Other chronic suppurative otitis media |
| H69.0 | Patulous Eustachian tube |
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| ICD-10 Code | Description | |
|-------------|---|--|
| H69.8 | Other specified disorders of Eustachian tube | |
| H69.9 | Eustachian tube disorder, unspecified | |
| H70.1 | Chronic mastoiditis | |
| H73.1 | Chronic myringitis | |
| H74.0 | Tympanosclerosis | |
| H74.1 | Adhesive middle ear disease | |
| H74.2 | Discontinuity and dislocation of ear ossicles | |
| H74.3 | Other acquired abnormalities of ear ossicles | |
| H75.0 | Mastoiditis in infectious and parasitic diseases classified elsewhere | |
| H80.0 | Otosclerosis involving oval window, nonobliterative | |
| H80.1 | Otosclerosis involving oval window, obliterative | |
| H80.2 | Cochlear otosclerosis | |
| H80.8 | Other otosclerosis | |
| H80.9 | Otosclerosis, unspecified | |
| H81.0 | Ménière disease | |
| H81.4 | Vertigo of central origin | |
| H83.0 | Labyrinthitis | |
| H83.2 | Labyrinthine dysfunction | |
| H90.0 | Conductive hearing loss, bilateral | |
| H90.3 | Sensorineural hearing loss, bilateral | |
| H90.5 | Sensorineural hearing loss, unspecified | |
| H90.6 | Mixed conductive and sensorineural hearing loss, bilateral | |
| H91.0 | Ototoxic hearing loss | |
| H91.1 | Presbycusis | |
| H91.2 | Sudden idiopathic hearing loss | |
| H91.3 | Deaf mutism, not elsewhere classified | |
| H91.8 | Other specified hearing loss | |
| H91.9 | Hearing loss, unspecified | |
| 143.1 | Cardiomyopathy in metabolic diseases | |
| 160.0 | Subarachnoid haemorrhage from carotid siphon and bifurcation | |
| 160.1 | Subarachnoid haemorrhage from middle cerebral artery | |
| 160.2 | Subarachnoid haemorrhage from anterior communicating artery | |
| 160.3 | Subarachnoid haemorrhage from posterior communicating artery | |
| 160.4 | Subarachnoid haemorrhage from basilar artery | |
| 160.5 | Subarachnoid haemorrhage from vertebral artery | |
| 160.6 | Subarachnoid haemorrhage from other intracranial arteries | |
| 160.7 | Subarachnoid haemorrhage from intracranial artery, unspecified | |
| 160.8 | Other subarachnoid haemorrhage | |
| 160.9 | Subarachnoid haemorrhage, unspecified | |
| 161.0 | Intracerebral haemorrhage in hemisphere, subcortical | |
| 161.1 | Intracerebral haemorrhage in hemisphere, cortical | |
| 161.2 | Intracerebral haemorrhage in hemisphere, unspecified | |
| 161.4 | Intracerebral haemorrhage in cerebellum | |
| 161.5 | Intracerebral haemorrhage, intraventricular | |
| 161.6 | Intracerebral haemorrhage, multiple localized | |
| 161.8 | Other intracerebral haemorrhage | |
| l61.9 | Intracerebral haemorrhage, unspecified | |

| ICD-10 Code | Description |
|--------------|--|
| 162.0 | Subdural haemorrhage (acute)(nontraumatic) |
| 162.1 | Nontraumatic extradural haemorrhage |
| 162.9 | Intracranial haemorrhage (nontraumatic), unspecified |
| 163.0 | Cerebral infarction due to thrombosis of precerebral arteries |
| 163.1 | Cerebral infarction due to embolism of precerebral arteries |
| 163.2 | Cerebral infarction due to unspecified occlusion or stenosis of precerebral arteries |
| 163.3 | Cerebral infarction due to thrombosis of cerebral arteries |
| 163.4 | Cerebral infarction due to embolism of cerebral arteries |
| 163.5 | Cerebral infarction due to unspecified occlusion or stenosis of cerebral arteries |
| 163.6 | Cerebral infarction due to cerebral venous thrombosis, nonpyogenic |
| 163.8 | Other cerebral infarction |
| 163.9 | Cerebral infarction, unspecified |
| 164 | Stroke, not specified as haemorrhage or infarction |
| 165.0 | Occlusion and stenosis of vertebral artery |
| 165.1 | Occlusion and stenosis of basilar artery |
| 165.2 | Occlusion and stenosis of carotid artery |
| 165.3 | Occlusion and stenosis of multiple and bilateral precerebral arteries |
| 165.8 | Occlusion and stenosis of other precerebral artery |
| 165.9 | Occlusion and stenosis of unspecified precerebral artery |
| 166.0 | Occlusion and stenosis of middle cerebral artery |
| 166.1 | Occlusion and stenosis of anterior cerebral artery |
| 166.2 | Occlusion and stenosis of posterior cerebral artery |
| 166.3 | Occlusion and stenosis of cerebellar arteries |
| 166.4 | Occlusion and stenosis of multiple and bilateral cerebral arteries |
| 166.8 | Occlusion and stenosis of other cerebral artery |
| 166.9 | Occlusion and stenosis of unspecified cerebral artery |
| 167.0 | Dissection of cerebral arteries, nonruptured |
| 167.1 | Cerebral aneurysm, nonruptured |
| 167.2 | Cerebral atherosclerosis |
| 167.3 | Progressive vascular leukoencephalopathy |
| 167.4 | Hypertensive encephalopathy |
| 167.5 | Moyamoya disease |
| 167.6 | Nonpyogenic thrombosis of intracranial venous system |
| 167.7 | Cerebral arteritis, not elsewhere classified |
| 167.8 | Other specified cerebrovascular diseases |
| 167.9 | Cerebrovascular disease, unspecified |
| 168.0 | Cerebral amyloid angiopathy |
| 168.2 | Cerebral arteritis in other diseases classified elsewhere |
| 168.8 | Other cerebrovascular disorders in diseases classified elsewhere |
| 169.0 | Sequelae of subarachnoid haemorrhage |
| 169.1 | Sequelae of intracerebral haemorrhage |
| 169.2 | Sequelae of other nontraumatic intracranial haemorrhage |
| 169.3 | Sequelae of cerebral infarction |
| 169.4 | Sequelae of stroke, not specified as haemorrhage or infarction |
| 169.8 | Sequelae of other and unspecified cerebrovascular diseases |
| 172.0 | Aneurysm and dissection of carotid artery |
| 172.5 374 | Aneurysm and dissection of other precerebral arteries |

| 172.9 Aneurysm and dissection of unspecified site 179.2 Peripheral angiopathy in diseases classified elsewhere 141.0 Simple chronic bronchitis 141.1 Mucopurulent chronic bronchitis 141.2 Unspecified chronic bronchitis 143.4 Mixed simple and mucopurulent chronic bronchitis 143.4 Unspecified chronic bronchitis 143.5 Centrilobular emphysema 143.8 Other emphysema 143.9 Emphysema, unspecified 144.0 Chronic obstructive pulmonary disease with acute lower respiratory infection 144.1 Chronic obstructive pulmonary disease, unspecified 144.9 Other specified chronic obstructive pulmonary disease 145.0 Predominantly allergic asthma 145.1 Nonallergic asthma 145.2 Predominantly allergic asthma 145.3 Mixed astast 145.4 Bronchiectasis 160 Coalworker pneumoconiosis 161 Pneumoconiosis due to abestos and other mineral fibres 162.0 Pneumoconiosis due to abestos and other mineral fibres 163.1 Bauxite fibrosis (of lung) 163.2 Berge | ICD-10 Code | Description |
|--|-------------|---|
| 179.2 Peripheral angiopathy in diseases classified elsewhere 141.0 Simple chronic bronchitis 141.1 Mucopurulent chronic bronchitis 141.2 Unspecified chronic bronchitis 142 Unspecified chronic bronchitis 143.0 Macteod syndrome 143.1 Panlobular emphysema 143.2 Centrilobular emphysema 143.8 Other emphysema 143.9 Emphysema, unspecified 144.0 Chronic obstructive pulmonary disease with acute lower respiratory infection 144.1 Chronic obstructive pulmonary disease with acute exacerbation, unspecified 144.4 Other specified chronic obstructive pulmonary disease 145.9 Chronic obstructive pulmonary disease, unspecified 145.0 Predominanty allergic asthma 145.1 Nonallergic asthma 145.8 Mixed asthma 145.9 Asthma, unspecified 146 Status asthmaticus 147 Bronchiectasis 160 Coalworker pneumoconiosis 161 Pneumoconiosis due to talc dust 162.0 Pneumoconiosis due to talc dust 163.1 B | | |
| 141.0 Simple chronic bronchitis 141.1 Mucopurulent chronic bronchitis 141.8 Mixed simple and mucopurulent chronic bronchitis 142 Unspecified chronic bronchitis 143.0 MacLeod syndrome 143.1 Panlobular emphysema 143.2 Centrilobular emphysema 143.3 Other emphysema 143.4 Other specified 144.4 Chronic obstructive pulmonary disease with acute lower respiratory infection 144.1 Chronic obstructive pulmonary disease, unspecified 144.2 Other specified chronic obstructive pulmonary disease, unspecified 144.9 Chronic obstructive pulmonary disease, unspecified 145.1 Nonaliergic asthma 145.2 Asthma, unspecified 145.3 Mixed asthma 145.4 Bronchicetasis 160 Coalworker pneumoconiosis 171 Bronchicetasis 162.0 Pneumoconiosis due to other dust containing silica 163.1 Bauxite fibrosis (of lung) 163.2 Berylliosis 163.3 Graphite fibrosis (of lung) 163.4 Siderosis <t< td=""><td>179.2</td><td></td></t<> | 179.2 | |
| 141.1 Mucopurulent chronic bronchitis 141.8 Mixed simple and mucopurulent chronic bronchitis 142 Unspecified chronic bronchitis 143.0 MacLeod syndrome 143.1 Panlobular emphysema 143.2 Centrilobular emphysema 143.3 Other emphysema 143.4 Other emphysema 143.5 Emphysema, unspecified 144.0 Chronic obstructive pulmonary disease with acute lower respiratory infection 144.1 Chronic obstructive pulmonary disease, unspecified 144.8 Other specified chronic obstructive pulmonary disease 145.0 Predominanty allergic asthma 145.1 Nonallergic asthma 145.3 Mixed asthma 145.4 Mixed asthma 145.9 Asthma, unspecified 146 Status asthmaticus 147 Bronchiectasis 160 Coalworker pneumoconiosis 161.0 Pneumoconiosis due to asbesto and other mineral fibres 162.0 Pneumoconiosis due to able dust 163.0 Aluminosis (of lung) 163.1 Bauxite fibrosis (of lung) 163 | J41.0 | |
| 141.8 Mixed simple and mucopurulent chronic bronchitis 142 Unspecified chronic bronchitis 143.0 MacLeod syndrome 143.1 Panlobular emphysema 143.2 Centrilobular emphysema 143.8 Other emphysema 143.9 Emphysema, unspecified 144.0 Chronic obstructive pulmonary disease with acute lower respiratory infection 144.1 Chronic obstructive pulmonary disease, unspecified 144.9 Chronic obstructive pulmonary disease, unspecified 145.0 Predominantly allergic asthma 145.1 Nonallergic asthma 145.2 Perdominantly allergic asthma 145.3 Mixed asthma 145.4 Bronchiectasis 146 Status asthmaticus 147 Bronchiectasis 160 Coalworker pneumoconiosis 161 Pneumoconiosis due to aller dust 162.0 Pneumoconiosis due to aller dust 163.1 Bauxite fibrosis (of lung) 163.3 Graphite fibrosis (of lung) 163.4 Siderosis 163.3 Graphite fibrosis (of lung) 163.4 Siderosis 163.5 Stannosis 163.6 Pneumoconiosis due to other specified inorganic dusts 164 | J41.1 | |
| 142 Unspecified chronic bronchitis 143.0 MacLeod syndrome 143.1 Panlobular emphysema 143.2 Centrilobular emphysema 143.8 Other emphysema 143.9 Emphysema, unspecified 143.4 Chronic obstructive pulmonary disease with acute lower respiratory infection 144.1 Chronic obstructive pulmonary disease with acute exacerbation, unspecified 144.9 Chronic obstructive pulmonary disease, unspecified 144.9 Chronic obstructive pulmonary disease, unspecified 145.0 Predominantly allergic asthma 145.1 Nonallergic asthma 145.9 Asthma, unspecified 145.9 Asthma, unspecified 146 Status asthmaticus 147 Bronchiectasis 160 Coalworker pneumoconiosis 161 Pneumoconiosis due to abestos and other mineral fibres 162.0 Pneumoconiosis due to other dust containing silica 163.1 Bauxite fibrosis (of lung) 163.2 Berylliosis 163.3 Graphite fibrosis (of lung) 163.4 Siderosis 163.5 Stannosis 163.6 Pneumoconiosis associated with tuberculosis 164 Unspecified pneumoconiosis 165.1 F | J41.8 | |
| 143.0MacLeod syndrome143.1Panlobular emphysema143.2Centrilobular emphysema143.8Other emphysema143.8Other emphysema, unspecified144.0Chronic obstructive pulmonary disease with acute lower respiratory infection144.1Chronic obstructive pulmonary disease with acute exacerbation, unspecified144.8Other specified chronic obstructive pulmonary disease, unspecified144.9Chronic obstructive pulmonary disease, unspecified145.0Predominantly allergic asthma145.1Nonallergic asthma145.3Mixed asthma145.9Astma, unspecified146Status asthmaticus147Bronchiectasis160Coalworker pneumoconiosis161Pneumoconiosis due to asbestos and other mineral fibres162.0Pneumoconiosis due to asbestos and other mineral fibres163.1Bauxite fibrosis (of lung)163.2Berylliosis163.3Graphite fibrosis (of lung)163.4Siderosis163.4Siderosis164.4Unspecified pneumoconiosis165.5Pneumoconiosis due to other specified inorganic dusts166.1Flax-dresser disease165.2Cannabinosi166.3Aitway disease due to other specified inorganic dusts166.4Aitway disease due to other specific organic dusts167.4Bagassosis167.5Mushroom-worker lung167.1Bagassosis167.2Bird fancier lung167.3Sube | J42 | |
| 143.1 Panlobular emphysema 143.2 Centrilobular emphysema 143.3 Other emphysema 143.9 Emphysema, unspecified 144.0 Chronic obstructive pulmonary disease with acute lower respiratory infection 144.1 Chronic obstructive pulmonary disease with acute exacerbation, unspecified 144.9 Chronic obstructive pulmonary disease, unspecified 144.9 Chronic obstructive pulmonary disease, unspecified 145.0 Predominantly allergic asthma 145.1 Nonallergic asthma 145.4 Mixed asthma 145.5 Mixed asthma 145.6 Status asthmaticus 147 Bronchicctasis 160 Coalworker pneumoconiosis 161 Pneumoconiosis due to abestos and other mineral fibres 162.0 Pneumoconiosis due to act dust 163.1 Bauxite fibrosis (of lung) 163.2 Berylliosis 163.3 Graphte fibrosis (of lung) 163.4 Siderosis 165.5 Stannosis 166.1 Flax-dresser disease 165.2 Cannabinosis 165.3 S | J43.0 | |
| 143.2Centrilobular emphysema143.8Other emphysema143.9Emphysema, unspecified144.0Chronic obstructive pulmonary disease with acute lower respiratory infection144.1Chronic obstructive pulmonary disease with acute exacerbation, unspecified144.2Other specified chronic obstructive pulmonary disease144.9Chronic obstructive pulmonary disease, unspecified145.0Predominantly allergic asthma145.1Nonallergic asthma145.8Mixed asthma145.9Asthma, unspecified145.9Asthma, unspecified146Status asthmaticus147Bronchiectasis160Coalworker pneumoconiosis161Pneumoconiosis due to absetsos and other mineral fibres162.0Pneumoconiosis due to tolc dust163.1Bauxite fibrosis (of lung)163.2Berylliosis163.3Graphite fibrosis (of lung)163.4Siderosis163.5Stannosis164Unspecified neumoconiosis165.4Pneumoconiosis due to other specified inorganic dusts166.0Byssinosis166.1Flax-dresser disease166.2Cannabinosis167.4Airway disease due to other specific organic dusts167.5Muscoris167.6Maple-bark-stripper lung167.7Airconditioner and humidifier lung167.6Maple-bark-stripper lung | J43.1 | • |
| 143.8 Other emphysema 143.9 Emphysema, unspecified 144.0 Chronic obstructive pulmonary disease with acute lower respiratory infection 144.1 Chronic obstructive pulmonary disease with acute exacerbation, unspecified 144.8 Other specified chronic obstructive pulmonary disease 144.9 Chronic obstructive pulmonary disease, unspecified 145.0 Predominantly allergic asthma 145.1 Nonallergic asthma 145.8 Mixed asthma 145.9 Asthma, unspecified 146 Status asthmaticus 147 Bronchiectasis 160 Coalworker pneumoconiosis 161 Pneumoconiosis due to abestos and other mineral fibres 162.0 Pneumoconiosis due to atbestos 163.1 Baukite fibrosis (of lung) 163.2 Berylliosis 163.3 Graphite fibrosis (of lung) 163.4 Siderosis 163.5 Stanosis 164 Unspecified pneumoconiosis 165 Pneumoconiosis due to other specified inorganic dusts 166.0 Byssinosis 165.1 Flax-dresser disease | J43.2 | |
| 143.9Emphysema, unspecified144.0Chronic obstructive pulmonary disease with acute lower respiratory infection144.1Chronic obstructive pulmonary disease with acute exacerbation, unspecified144.8Other specified chronic obstructive pulmonary disease144.9Chronic obstructive pulmonary disease, unspecified145.0Predominantly allergic asthma145.1Nonallergic asthma145.8Mixed asthma145.9Asthma, unspecified146Status asthmaticus147Bronchiectasis160Coalworker pneumoconiosis161Pneumoconiosis due to absetso and other mineral fibres162.8Pneumoconiosis due to talc dust163.1Bauxite fibrosis (of lung)163.2Berylliosis163.3Graphite fibrosis (of lung)163.4Siderosis165Pneumoconiosis due to other specified inorganic dusts166.0Byssinosis167.0Fiax-dresser disease166.1Fiax-dresser disease166.2Annabinosis (of tuog)167.3Suberosis167.4Matworker lung167.5Mushrom-worker lung167.6Maple-bark-stripper lung167.7Air-conditioner and humidifier lung | J43.8 | |
| 144.0Chronic obstructive pulmonary disease with acute lower respiratory infection144.1Chronic obstructive pulmonary disease with acute exacerbation, unspecified144.9Chronic obstructive pulmonary disease144.9Chronic obstructive pulmonary disease, unspecified145.0Predominantly allergic asthma145.1Nonallergic asthma145.3Mixed asthma145.4Mixed asthma145.5Asthma, unspecified146Status asthmaticus147Bronchiectasis160Coalworker pneumoconiosis161Pneumoconiosis due to absetso and other mineral fibres162.0Pneumoconiosis due to other dust containing silica163.1Bauxite fibrosis (of lung)163.2Berylliosis163.3Graphite fibrosis (of lung)163.4Siderosis163.5Stannosis163.4Siderosis164Unspecified pneumoconiosis165Pneumoconiosis due to other specified inorganic dusts166.1Flax-dresser disease166.2Canabinosis166.3Airway disease due to other specific organic dusts166.4Airway disease due to other specific organic dusts167.0Farmer lung167.1Bagassosis167.2Bird fancier lung167.3Suberosis167.4Maltworker lung167.5Mushroom-worker lung167.6Maple-bark-stripper lung167.7Air-conditioner and humidifier lung | J43.9 | |
| 144.1Chronic obstructive pulmonary disease with acute exacerbation, unspecified144.8Other specified chronic obstructive pulmonary disease.144.9Chronic obstructive pulmonary disease, unspecified145.0Predominantly allergic asthma145.1Nonallergic asthma145.8Mixed asthma145.9Asthma, unspecified146Status asthmaticus147Bronchiectasis160Coalworker pneumoconiosis161Pneumoconiosis due to asbestos and other mineral fibres162.0Pneumoconiosis due to talc dust163.0Aluminosis (of lung)163.1Bauxite fibrosis (of lung)163.2Berylliosis163.3Graphite fibrosis (of lung)163.4Siderosis163.5Stannosis164Unspecified pneumoconiosis165.4Pneumoconiosis due to other specified inorganic dusts166.1Flax-dresser disease166.2Canabinosis166.3Preumoconiosis due to other specified inorganic dusts166.4Linspecified pneumoconiosis166.5Pneumoconiosis associated with tuberculosis166.6Bysinosis166.7Flax-dresser disease167.9Farmer lung167.1Bagassois167.2Bird fancier lung167.5Mushroom-worker lung167.6Maple-bark-stripper lung167.6Maple-bark-stripper lung167.7Air-conditioner and humidifier lung | J44.0 | |
| 144.8Other specified chronic obstructive pulmonary disease144.9Chronic obstructive pulmonary disease, unspecified145.0Predominantly allergic asthma145.1Nonallergic asthma145.8Mixed asthma145.9Asthma, unspecified146Status asthmaticus147Bronchiectasis160Coalworker pneumoconiosis161Pneumoconiosis due to asbestos and other mineral fibres162.0Pneumoconiosis due to talc dust163.1Bauxite fibrosis (of lung)163.2Berylliosis163.3Graphite fibrosis (of lung)163.4Siderosis165.5Stanosis166.0Byssinosis167.4Meumoconiosis due to other specified inorganic dusts168.3Graphite fibrosis (of lung)163.4Siderosis165.5Stanosis166.0Byssinosis166.1Flax-dresser disease166.2Cannabinosis167.4Airway disease due to other specific organic dusts167.4Bagassosis167.5Suberosis167.4Matworker lung167.5Mushroom-worker lung167.6Maple-bark-stripper lung167.7Air-conditioner and humidifier lung | J44.1 | |
| 144.9Chronic obstructive pulmonary disease, unspecified145.0Predominantly allergic asthma145.1Nonallergic asthma145.8Mixed asthma145.9Asthma, unspecified146Status asthmaticus147Bronchiectasis160Coalworker pneumoconiosis161Pneumoconiosis due to asbestos and other mineral fibres162.0Pneumoconiosis due to talc dust163.1Bauxite fibrosis (of lung)163.2Berylliosis163.3Graphite fibrosis (of lung)163.4Siderosis163.5Stannosis164Unspecified pneumoconiosis165.8Pneumoconiosis due to other specified inorganic dusts163.4Siderosis163.5Stannosis164Unspecified pneumoconiosis165Pneumoconiosis associated with tuberculosis166.0Byssinosis166.1Flax-dresser disease166.2Cannabinosis166.3Airway disease due to other specific organic dusts167.0Farmer lung167.1Bagassosis167.2Bird fancier lung167.3Suberosis167.4Maltworker lung167.5Mushroom-worker lung167.6Maple-bark-stripper lung167.7Air-conditioner and humidifier lung | J44.8 | |
| 145.0Predominantly allergic asthma145.1Nonallergic asthma145.8Mixed asthma145.9Asthma, unspecified146Status asthmaticus147Bronchiectasis160Coalworker pneumoconiosis161Pneumoconiosis due to asbestos and other mineral fibres162.0Pneumoconiosis due to talc dust162.8Pneumoconiosis due to other dust containing silica163.0Aluminosis (of lung)163.1Bauxite fibrosis (of lung)163.2Berylliosis163.3Graphite fibrosis (of lung)163.4Siderosis163.5Stannosis164Unspecified pneumoconiosis165Pneumoconiosis due to other specified inorganic dusts166.0Byssinosis166.1Flax-dresser disease166.2Canabinosis166.3Airway disease due to other specific organic dusts166.4Hax-dresser disease166.5Airway disease due to other specific organic dusts167.1Bagasosis167.2Bird fancier lung167.3Suberosis167.4Malkworker lung167.5Mushroom-worker lung167.6Malpe-bark-stripper lung167.7Air-conditioner and humidifier lung | J44.9 | |
| 145.1Nonallergic asthma145.8Mixed asthma145.9Asthma, unspecified146Status asthmaticus147Bronchiectasis160Coalworker pneumoconiosis161Pneumoconiosis due to asbestos and other mineral fibres162.0Pneumoconiosis due to talc dust162.8Pneumoconiosis due to other dust containing silica163.0Aluminosis (of lung)163.1Bauxite fibrosis (of lung)163.2Berylliosis163.3Graphite fibrosis (of lung)163.4Siderosis163.5Stannosis163.8Pneumoconiosis due to other specified inorganic dusts163.9Jeumoconiosis associated with tuberculosis164Unspecified pneumoconiosis165Pneumoconiosis associated with tuberculosis166.0Byssinosis166.1Flax-dresser disease166.2Cannabinosis166.3Airway disease due to other specific organic dusts167.4Bagassosis167.5Bird fancier lung167.4Maltworker lung167.5Mushroom-worker lung167.6Malpe-bark-stripper lung167.7Air-conditioner and humidifier lung | | |
| 145.8Mixed asthma145.9Asthma, unspecified146Status asthmaticus147Bronchiectasis160Coalworker pneumoconiosis161Pneumoconiosis due to asbestos and other mineral fibres162.0Pneumoconiosis due to abbestos and other mineral fibres162.0Pneumoconiosis due to abbestos and other mineral fibres162.0Pneumoconiosis due to other dust containing silica162.0Aluminosis (of lung)163.1Bauxite fibrosis (of lung)163.2Berylliosis163.3Graphite fibrosis (of lung)163.4Siderosis163.5Stannosis163.8Pneumoconiosis due to other specified inorganic dusts164Unspecified pneumoconiosis165Pneumoconiosis associated with tuberculosis166.0Bysinosis166.1Flax-dresser disease166.2Cannabinosis167.0Farmer lung167.1Bagassosis167.2Bird fancier lung167.3Suberosis167.4Maltworker lung167.5Mushroom-worker lung167.6Maple-bark-stripper lung167.7Air-conditioner and humidifier lung | J45.1 | |
| 146Status asthmaticus147Bronchiectasis160Coalworker pneumoconiosis161Pneumoconiosis due to asbestos and other mineral fibres162.0Pneumoconiosis due to talc dust162.8Pneumoconiosis due to other dust containing silica163.0Aluminosis (of lung)163.1Bauxite fibrosis (of lung)163.2Berylliosis163.3Graphite fibrosis (of lung)163.4Siderosis163.5Stannosis163.8Pneumoconiosis due to other specified inorganic dusts164Unspecified pneumoconiosis165Pneumoconiosis associated with tuberculosis166.0Byssinosis166.1Flax-dresser disease166.2Cannabinosis167.1Bagassosis167.2Bird fancier lung167.3Suberosis167.4Maltworker lung167.5Mushroom-worker lung167.6Maple-bark-stripper lung167.7Air-conditioner and humidifier lung | J45.8 | |
| 146Status asthmaticus147Bronchiectasis160Coalworker pneumoconiosis161Pneumoconiosis due to asbestos and other mineral fibres162.0Pneumoconiosis due to talc dust162.8Pneumoconiosis due to other dust containing silica163.0Aluminosis (of lung)163.1Bauxite fibrosis (of lung)163.2Berylliosis163.3Graphite fibrosis (of lung)163.4Siderosis163.5Stannosis163.8Pneumoconiosis due to other specified inorganic dusts163.8Pneumoconiosis due to other specified inorganic dusts164Unspecified pneumoconiosis165Pneumoconiosis associated with tuberculosis166.0Byssinosis166.1Flax-dresser disease166.2Cannabinosis167.0Farmer lung167.1Bagassosis167.2Bird fancier lung167.3Suberosis167.4Maltworker lung167.5Mushroom-worker lung167.6Maple-bark-stripper lung167.7Air-conditioner and humidifier lung | J45.9 | Asthma, unspecified |
| J60Coalworker pneumoconiosisJ61Pneumoconiosis due to asbestos and other mineral fibresJ62.0Pneumoconiosis due to talc dustJ62.8Pneumoconiosis due to other dust containing silicaJ63.0Aluminosis (of lung)J63.1Bauxite fibrosis (of lung)J63.2BerylliosisJ63.3Graphite fibrosis (of lung)J63.4SiderosisJ63.5StannosisJ63.8Pneumoconiosis due to other specified inorganic dustsJ64Unspecified pneumoconiosisJ65.5Pneumoconiosis associated with tuberculosisJ66.0ByssinosisJ66.1Flax-dresser diseaseJ66.2CannabinosisJ67.0Farmer lungJ67.1BagassosisJ67.2Bird fancier lungJ67.3SuberosisJ67.4Maltworker lungJ67.5Mushroom-worker lungJ67.6Maple-bark-stripper lungJ67.7Air-conditioner and humidifier lung | J46 | · · · · |
| J61Pneumoconiosis due to asbestos and other mineral fibresJ62.0Pneumoconiosis due to atlc dustJ62.8Pneumoconiosis due to other dust containing silicaJ63.0Aluminosis (of lung)J63.1Bauxite fibrosis (of lung)J63.2BerylliosisJ63.3Graphite fibrosis (of lung)J63.4SiderosisJ63.5StannosisJ63.8Pneumoconiosis due to other specified inorganic dustsJ63.8Pneumoconiosis associated with tuberculosisJ64Unspecified pneumoconiosisJ65Pneumoconiosis associated with tuberculosisJ66.0ByssinosisJ66.1Flax-dresser diseaseJ66.2CannabinosisJ67.0Farmer lungJ67.1BagassosisJ67.2Bird fancier lungJ67.3SuberosisJ67.4Maltworker lungJ67.5Mushroom-worker lungJ67.6Maple-bark-stripper lungJ67.7Air-conditioner and humidifier lung | J47 | Bronchiectasis |
| J61Pneumoconiosis due to asbestos and other mineral fibresJ62.0Pneumoconiosis due to talc dustJ62.8Pneumoconiosis due to other dust containing silicaJ63.0Aluminosis (of lung)J63.1Bauxite fibrosis (of lung)J63.2BerylliosisJ63.3Graphite fibrosis (of lung)J63.4SiderosisJ63.5StannosisJ63.8Pneumoconiosis due to other specified inorganic dustsJ63.4Unspecified pneumoconiosisJ63.5Pneumoconiosis associated with tuberculosisJ64.4Unspecified pneumoconiosisJ65.5Pneumoconiosis associated with tuberculosisJ66.0ByssinosisJ66.1Flax-dresser diseaseJ66.2CannabinosisJ67.4BagassosisJ67.3SuberosisJ67.4Maltworker lungJ67.5Mushroom-worker lungJ67.6Maple-bark-stripper lungJ67.7Air-conditioner and humidifier lung | J60 | Coalworker pneumoconiosis |
| J62.8Pneumoconiosis due to other dust containing silicaJ63.0Aluminosis (of lung)J63.1Bauxite fibrosis (of lung)J63.2BerylliosisJ63.3Graphite fibrosis (of lung)J63.4SiderosisJ63.5StannosisJ63.8Pneumoconiosis due to other specified inorganic dustsJ64Unspecified pneumoconiosisJ65Pneumoconiosis associated with tuberculosisJ66.0ByssinosisJ66.1Flax-dresser diseaseJ66.2CannabinosisJ67.0Farmer lungJ67.1BagassosisJ67.2Bird fancier lungJ67.3SuberosisJ67.4Maltworker lungJ67.5Mushroom-worker lungJ67.6Maple-bark-stripper lungJ67.7Air-conditioner and humidifier lung | J61 | |
| 163.0Aluminosis (of lung)163.1Bauxite fibrosis (of lung)163.2Berylliosis163.3Graphite fibrosis (of lung)163.4Siderosis163.5Stannosis163.8Pneumoconiosis due to other specified inorganic dusts164Unspecified pneumoconiosis165Pneumoconiosis associated with tuberculosis166.0Byssinosis166.1Flax-dresser disease166.2Cannabinosis167.0Farmer lung167.1Bagassosis167.2Bird fancier lung167.3Suberosis167.4Maltworker lung167.5Mushroom-worker lung167.6Maple-bark-stripper lung167.7Air-conditioner and humidifier lung | J62.0 | Pneumoconiosis due to talc dust |
| 163.1Bauxite fibrosis (of lung)163.2Berylliosis163.3Graphite fibrosis (of lung)163.4Siderosis163.5Stannosis163.8Pneumoconiosis due to other specified inorganic dusts164Unspecified pneumoconiosis165Pneumoconiosis associated with tuberculosis166.0Byssinosis166.1Flax-dresser disease166.2Cannabinosis166.8Airway disease due to other specific organic dusts167.0Farmer lung167.1Bagassosis167.2Bird fancier lung167.3Suberosis167.4Maltworker lung167.5Mushroom-worker lung167.6Maple-bark-stripper lung167.7Air-conditioner and humidifier lung | J62.8 | Pneumoconiosis due to other dust containing silica |
| J63.2BerylliosisJ63.3Graphite fibrosis (of lung)J63.4SiderosisJ63.5StannosisJ63.8Pneumoconiosis due to other specified inorganic dustsJ64Unspecified pneumoconiosisJ65Pneumoconiosis associated with tuberculosisJ66.0ByssinosisJ66.1Flax-dresser diseaseJ66.2CannabinosisJ67.0Farmer lungJ67.1BagassosisJ67.2Bird fancier lungJ67.3SuberosisJ67.4Maltworker lungJ67.5Mushroom-worker lungJ67.7Air-conditioner and humidifier lung | J63.0 | Aluminosis (of lung) |
| J63.3Graphite fibrosis (of lung)J63.4SiderosisJ63.5StannosisJ63.8Pneumoconiosis due to other specified inorganic dustsJ64Unspecified pneumoconiosisJ65Pneumoconiosis associated with tuberculosisJ66.0ByssinosisJ66.1Flax-dresser diseaseJ66.2CannabinosisJ66.8Airway disease due to other specific organic dustsJ67.0Farmer lungJ67.1BagassosisJ67.2Bird fancier lungJ67.3SuberosisJ67.4Maltworker lungJ67.5Mushroom-worker lungJ67.6Maple-bark-stripper lungJ67.7Air-conditioner and humidifier lung | J63.1 | Bauxite fibrosis (of lung) |
| J63.4SiderosisJ63.5StannosisJ63.8Pneumoconiosis due to other specified inorganic dustsJ64Unspecified pneumoconiosisJ65Pneumoconiosis associated with tuberculosisJ66.0ByssinosisJ66.1Flax-dresser diseaseJ66.2CannabinosisJ66.8Airway disease due to other specific organic dustsJ67.0Farmer lungJ67.1BagassosisJ67.2Bird fancier lungJ67.3SuberosisJ67.4Maltworker lungJ67.5Mushroom-worker lungJ67.7Air-conditioner and humidifier lung | J63.2 | Berylliosis |
| J63.4SiderosisJ63.5StannosisJ63.8Pneumoconiosis due to other specified inorganic dustsJ64Unspecified pneumoconiosisJ65Pneumoconiosis associated with tuberculosisJ66.0ByssinosisJ66.1Flax-dresser diseaseJ66.2CannabinosisJ66.8Airway disease due to other specific organic dustsJ67.0Farmer lungJ67.1BagassosisJ67.2Bird fancier lungJ67.3SuberosisJ67.4Maltworker lungJ67.5Mushroom-worker lungJ67.6Maple-bark-stripper lungJ67.7Air-conditioner and humidifier lung | J63.3 | Graphite fibrosis (of lung) |
| J63.8Pneumoconiosis due to other specified inorganic dustsJ64Unspecified pneumoconiosisJ65Pneumoconiosis associated with tuberculosisJ66.0ByssinosisJ66.1Flax-dresser diseaseJ66.2CannabinosisJ66.8Airway disease due to other specific organic dustsJ67.0Farmer lungJ67.1BagassosisJ67.2Bird fancier lungJ67.3SuberosisJ67.4Maltworker lungJ67.5Mushroom-worker lungJ67.6Maple-bark-stripper lungJ67.7Air-conditioner and humidifier lung | J63.4 | |
| J64Unspecified pneumoconiosisJ65Pneumoconiosis associated with tuberculosisJ66.0ByssinosisJ66.1Flax-dresser diseaseJ66.2CannabinosisJ66.3Airway disease due to other specific organic dustsJ67.0Farmer lungJ67.1BagassosisJ67.2Bird fancier lungJ67.3SuberosisJ67.4Maltworker lungJ67.5Mushroom-worker lungJ67.7Air-conditioner and humidifier lung | J63.5 | Stannosis |
| J65Pneumoconiosis associated with tuberculosisJ66.0ByssinosisJ66.1Flax-dresser diseaseJ66.2CannabinosisJ66.8Airway disease due to other specific organic dustsJ67.0Farmer lungJ67.1BagassosisJ67.2Bird fancier lungJ67.3SuberosisJ67.4Maltworker lungJ67.5Mushroom-worker lungJ67.7Air-conditioner and humidifier lung | J63.8 | Pneumoconiosis due to other specified inorganic dusts |
| J66.0ByssinosisJ66.1Flax-dresser diseaseJ66.2CannabinosisJ66.8Airway disease due to other specific organic dustsJ67.0Farmer lungJ67.1BagassosisJ67.2Bird fancier lungJ67.3SuberosisJ67.4Maltworker lungJ67.5Mushroom-worker lungJ67.6Maple-bark-stripper lungJ67.7Air-conditioner and humidifier lung | J64 | Unspecified pneumoconiosis |
| J66.1Flax-dresser diseaseJ66.2CannabinosisJ66.8Airway disease due to other specific organic dustsJ67.0Farmer lungJ67.1BagassosisJ67.2Bird fancier lungJ67.3SuberosisJ67.4Maltworker lungJ67.5Mushroom-worker lungJ67.6Maple-bark-stripper lungJ67.7Air-conditioner and humidifier lung | J65 | Pneumoconiosis associated with tuberculosis |
| J66.2CannabinosisJ66.8Airway disease due to other specific organic dustsJ67.0Farmer lungJ67.1BagassosisJ67.2Bird fancier lungJ67.3SuberosisJ67.4Maltworker lungJ67.5Mushroom-worker lungJ67.6Maple-bark-stripper lungJ67.7Air-conditioner and humidifier lung | J66.0 | Byssinosis |
| J66.8Airway disease due to other specific organic dustsJ67.0Farmer lungJ67.1BagassosisJ67.2Bird fancier lungJ67.3SuberosisJ67.4Maltworker lungJ67.5Mushroom-worker lungJ67.6Maple-bark-stripper lungJ67.7Air-conditioner and humidifier lung | J66.1 | Flax-dresser disease |
| J67.0Farmer lungJ67.1BagassosisJ67.2Bird fancier lungJ67.3SuberosisJ67.4Maltworker lungJ67.5Mushroom-worker lungJ67.6Maple-bark-stripper lungJ67.7Air-conditioner and humidifier lung | J66.2 | Cannabinosis |
| J67.1BagassosisJ67.2Bird fancier lungJ67.3SuberosisJ67.4Maltworker lungJ67.5Mushroom-worker lungJ67.6Maple-bark-stripper lungJ67.7Air-conditioner and humidifier lung | J66.8 | Airway disease due to other specific organic dusts |
| J67.2Bird fancier lungJ67.3SuberosisJ67.4Maltworker lungJ67.5Mushroom-worker lungJ67.6Maple-bark-stripper lungJ67.7Air-conditioner and humidifier lung | J67.0 | Farmer lung |
| J67.3SuberosisJ67.4Maltworker lungJ67.5Mushroom-worker lungJ67.6Maple-bark-stripper lungJ67.7Air-conditioner and humidifier lung | J67.1 | Bagassosis |
| J67.4Maltworker lungJ67.5Mushroom-worker lungJ67.6Maple-bark-stripper lungJ67.7Air-conditioner and humidifier lung | J67.2 | Bird fancier lung |
| J67.5 Mushroom-worker lung J67.6 Maple-bark-stripper lung J67.7 Air-conditioner and humidifier lung | J67.3 | Suberosis |
| J67.6 Maple-bark-stripper lung J67.7 Air-conditioner and humidifier lung | J67.4 | Maltworker lung |
| J67.7 Air-conditioner and humidifier lung | J67.5 | Mushroom-worker lung |
| | J67.6 | Maple-bark-stripper lung |
| J67.8 Hypersensitivity pneumonitis due to other organic dusts | J67.7 | Air-conditioner and humidifier lung |
| | J67.8 | Hypersensitivity pneumonitis due to other organic dusts |

| ICD-10 Code | Description |
|-------------|---|
| J67.9 | Hypersensitivity pneumonitis due to unspecified organic dust |
| J68.0 | Bronchitis and pneumonitis due to chemicals, gases, fumes and vapours |
| J68.1 | Pulmonary oedema due to chemicals, gases, fumes and vapours |
| J68.2 | Upper respiratory inflammation due to chemicals, gases, fumes and vapours, not elsewhere classified |
| J68.3 | Other acute and subacute respiratory conditions due to chemicals, gases, fumes and vapours |
| J68.4 | Chronic respiratory conditions due to chemicals, gases, fumes and vapours |
| J68.8 | Other respiratory conditions due to chemicals, gases, fumes and vapours |
| J68.9 | Unspecified respiratory condition due to chemicals, gases, fumes and vapours |
| J69.0 | Pneumonitis due to food and vomit |
| J69.1 | Pneumonitis due to oils and essences |
| J69.8 | Pneumonitis due to other solids and liquids |
| J70.0 | Acute pulmonary manifestations due to radiation |
| J70.1 | Chronic and other pulmonary manifestations due to radiation |
| J70.2 | Acute drug-induced interstitial lung disorders |
| J70.3 | Chronic drug-induced interstitial lung disorders |
| J70.4 | Drug-induced interstitial lung disorders, unspecified |
| J70.8 | Respiratory conditions due to other specified external agents |
| J70.9 | Respiratory conditions due to unspecified external agent |
| J80 | Adult respiratory distress syndrome |
| J81 | Pulmonary oedema |
| J82 | Pulmonary eosinophilia, not elsewhere classified |
| J84.0 | Alveolar and parietoalveolar conditions |
| J84.8 | Other specified interstitial pulmonary diseases |
| J84.9 | Interstitial pulmonary disease, unspecified |
| J85.0 | Gangrene and necrosis of lung |
| J85.1 | Abscess of lung with pneumonia |
| J85.2 | Abscess of lung without pneumonia |
| J85.3 | Abscess of mediastinum |
| J86.0 | Pyothorax with fistula |
| J86.9 | Pyothorax without fistula |
| J98.0 | Diseases of bronchus, not elsewhere classified |
| J98.1 | Pulmonary collapse |
| J98.2 | Interstitial emphysema |
| J98.3 | Compensatory emphysema |
| J98.5 | Diseases of mediastinum, not elsewhere classified |
| J98.6 | Disorders of diaphragm |
| J98.8 | Other specified respiratory disorders |
| J98.9 | Respiratory disorder, unspecified |
| J99.0 | Respiratory disorders in diseases classified elsewhere: Rheumatoid lung disease |
| J99.1 | Respiratory disorders in other diffuse connective tissue disorders |
| К20 | Oesophagitis |
| К21.0 | Gastro-oesophageal reflux disease with oesophagitis |
| К22.0 | Achalasia of cardia |
| K22.1 | Ulcer of oesophagus |
| К22.2 | Oesophageal obstruction |

| ICD-10 Code | Description |
|-------------|--|
| K22.3 | Perforation of oesophagus |
| K22.4 | Dyskinesia of oesophagus |
| K22.5 | Diverticulum of oesophagus, acquired |
| K22.6 | Gastro-oesophageal laceration-haemorrhage syndrome |
| K22.7 | Barrett oesophagus |
| K22.8 | Other specified diseases of oesophagus |
| К22.9 | Disease of oesophagus, unspecified |
| K23.0 | Tuberculous oesophagitis |
| K23.1 | Megaoesophagus in Chagas disease |
| K23.8 | Disorders of oesophagus in other diseases classified elsewhere |
| K25 | Gastric ulcer |
| K26 | Duodenal ulcer |
| K27 | Peptic ulcer, site unspecified |
| K28 | Gastrojejunal ulcer |
| K29.0 | Acute haemorrhagic gastritis |
| K29.1 | Other acute gastritis |
| K29.2 | Alcoholic gastritis |
| K29.3 | Chronic superficial gastritis |
| K29.4 | Chronic atrophic gastritis |
| K29.5 | Chronic gastritis, unspecified |
| K29.6 | Other gastritis |
| K29.7 | Gastritis, unspecified |
| K29.8 | Duodenitis |
| К29.9 | Gastroduodenitis, unspecified |
| K31.0 | Acute dilatation of stomach |
| K31.1 | Adult hypertrophic pyloric stenosis |
| K31.2 | Hourglass stricture and stenosis of stomach |
| K31.3 | Pylorospasm, not elsewhere classified |
| K31.4 | Gastric diverticulum |
| K31.5 | Obstruction of duodenum |
| K31.6 | Fistula of stomach and duodenum |
| K31.7 | Polyp of stomach and duodenum |
| K31.8 | Other specified diseases of stomach and duodenum |
| K31.9 | Disease of stomach and duodenum, unspecified |
| K50.0 | Crohn disease of small intestine |
| K50.1 | Crohn disease of large intestine |
| K50.8 | Other Crohn disease |
| K50.9 | Crohn disease, unspecified |
| K51.0 | Ulcerative (chronic) pancolitis |
| K51.2 | Ulcerative (chronic) proctitis |
| K51.3 | Ulcerative (chronic) rectosigmoiditis |
| K51.4 | Inflammatory polyps |
| K51.5 | Left sided colitis |
| K51.8 | Other ulcerative colitis |
| K51.9 | Ulcerative colitis, unspecified |
| | |
| K52.0 | Gastroenteritis and colitis due to radiation |

| | Description |
|----------------|---|
| K52.2 | Allergic and dietetic gastroenteritis and colitis |
| | Indeterminate colitis |
| K52.8 | Other specified noninfective gastroenteritis and colitis |
| | Noninfective gastroenteritis and colitis, unspecified |
| | Chronic vascular disorders of intestine |
| | Angiodysplasia of colon |
| | Other vascular disorders of intestine |
| K57.0 | Diverticular disease of small intestine with perforation and abscess |
| | Diverticular disease of small intestine without perforation or abscess |
| | Diverticular disease of large intestine with perforation and abscess |
| | Diverticular disease of large intestine without perforation or abscess |
| | Diverticular disease of both small and large intestine with perforation and abscess |
| | Diverticular disease of both small and large intestine without perforation or abscess |
| | Diverticular disease of intestine, part unspecified, with perforation and abscess |
| | Diverticular disease of intestine, part unspecified, without perforation or abscess |
| | Neurogenic bowel, not elsewhere classified |
| | Abscess of intestine |
| K63.1 | Perforation of intestine (nontraumatic) |
| K63.2 | Fistula of intestine |
| K63.3 | Ulcer of intestine |
| K66.0 | Peritoneal adhesions |
| K66.1 | Haemoperitoneum |
| K66.8 (| Other specified disorders of peritoneum |
| К66.9 І | Disorder of peritoneum, unspecified |
| K67.3 - | Tuberculous peritonitis |
| К70.0 | Alcoholic fatty liver |
| К70.1 | Alcoholic hepatitis |
| К70.2 | Alcoholic fibrosis and sclerosis of liver |
| К70.3 | Alcoholic cirrhosis of liver |
| К70.4 | Alcoholic hepatic failure |
| К70.9 | Alcoholic liver disease, unspecified |
| K73.0 | Chronic persistent hepatitis, not elsewhere classified |
| K73.1 | Chronic lobular hepatitis, not elsewhere classified |
| K73.2 | Chronic active hepatitis, not elsewhere classified |
| К73.8 (| Other chronic hepatitis, not elsewhere classified |
| K73.9 | Chronic hepatitis, unspecified |
| к75.0 | Abscess of liver |
| K75.1 I | Phlebitis of portal vein |
| K75.2 I | Nonspecific reactive hepatitis |
| | Granulomatous hepatitis, not elsewhere classified |
| | Autoimmune hepatitis |
| | Other specified inflammatory liver diseases |
| | Inflammatory liver disease, unspecified |
| | Fatty (change of) liver, not elsewhere classified |
| | Chronic passive congestion of liver |
| | Central haemorrhagic necrosis of liver |
| К76.3 I 378 | Infarction of liver |

| ICD-10 Code | Description | |
|-------------|---|-----|
| K76.4 | Peliosis hepatis | |
| K76.6 | Portal hypertension | |
| K76.7 | Hepatorenal syndrome | |
| К76.9 | Liver disease, unspecified | |
| К80.0 | Calculus of gallbladder with acute cholecystitis | |
| K80.1 | Calculus of gallbladder with other cholecystitis | |
| К80.2 | Calculus of gallbladder without cholecystitis | |
| К80.3 | Calculus of bile duct with cholangitis | |
| К80.4 | Calculus of bile duct with cholecystitis | |
| K80.5 | Calculus of bile duct without cholangitis or cholecystitis | |
| K80.8 | Other cholelithiasis | |
| K81.0 | Acute cholecystitis | |
| K81.1 | Chronic cholecystitis | |
| K81.8 | Other cholecystitis | |
| K81.9 | Cholecystitis, unspecified | |
| K82.0 | Obstruction of gallbladder | |
| K82.1 | Hydrops of gallbladder | |
| K82.2 | Perforation of gallbladder | |
| K82.3 | Fistula of gallbladder | |
| K82.4 | Cholesterolosis of gallbladder | |
| K82.8 | Other specified diseases of gallbladder | |
| K82.9 | Disease of gallbladder, unspecified | |
| K83.0 | Cholangitis | |
| K83.1 | Obstruction of bile duct | |
| K83.2 | Perforation of bile duct | |
| K83.3 | Fistula of bile duct | |
| К83.4 | Spasm of sphincter of Oddi | |
| K83.5 | Biliary cyst | |
| K83.8 | Other specified diseases of biliary tract | |
| К83.9 | Disease of biliary tract, unspecified | |
| К85.0 | Idiopathic acute pancreatitis | |
| K85.1 | Biliary acute pancreatitis | |
| K85.2 | Alcohol-induced acute pancreatitis | |
| К85.3 | Drug-induced acute pancreatitis | |
| K85.8 | Other acute pancreatitis | |
| К85.9 | Acute pancreatitis, unspecified | |
| К86.0 | Alcohol-induced chronic pancreatitis | |
| K86.1 | Other chronic pancreatitis | |
| K86.2 | Cyst of pancreas | |
| K86.3 | Pseudocyst of pancreas | |
| K86.9 | Disease of pancreas, unspecified | |
| K87.0 | Disorders of gallbladder and biliary tract in diseases classified elsewhere | |
| K90.0 | Coeliac disease | |
| K90.1 | Tropical sprue | |
| K90.2 | Blind loop syndrome, not elsewhere classified | |
| K90.3 | Pancreatic steatorrhoea | |
| K90.4 | Malabsorption due to intolerance, not elsewhere classified | |
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| ICD-10 Code | Description |
|--------------|---|
| K90.8 | Other intestinal malabsorption |
| К93.0 | Tuberculous disorders of intestines, peritoneum and mesenteric glands |
| K93.1 | Megacolon in Chagas disease |
| L10.0 | Pemphigus vulgaris |
| L10.1 | Pemphigus vegetans |
| L10.2 | Pemphigus foliaceus |
| L10.3 | Brazilian pemphigus [fogo selvagem] |
| L10.4 | Pemphigus erythematosus |
| L10.5 | Drug-induced pemphigus |
| L10.8 | Other pemphigus |
| L10.9 | Pemphigus, unspecified |
| L11.0 | Acquired keratosis follicularis |
| L11.8 | Other specified acantholytic disorders |
| L11.9 | Acantholytic disorder, unspecified |
| L12.0 | Bullous pemphigoid |
| L12.1 | Cicatricial pemphigoid |
| L12.2 | Chronic bullous disease of childhood |
| L12.3 | Acquired epidermolysis bullosa |
| L12.8 | Other pemphigoid |
| L12.9 | Pemphigoid, unspecified |
| L13.0 | Dermatitis herpetiformis |
| L13.1 | Subcorneal pustular dermatitis |
| L13.8 | Other specified bullous disorders |
| L13.9 | Bullous disorder, unspecified |
| L14 | Bullous disorders in diseases classified elsewhere |
| L28.0 | Lichen simplex chronicus |
| L28.1 | Prurigo nodularis |
| L28.2 | Other prurigo |
| L40.0 | Psoriasis vulgaris |
| L40.1 | Generalized pustular psoriasis |
| L40.2 | Acrodermatitis continua |
| L40.3 | Pustulosis palmaris et plantaris |
| L40.4 | Guttate psoriasis |
| L40.5 | Arthropathic psoriasis |
| L40.8 | Other psoriasis |
| L40.9 | Psoriasis, unspecified |
| L41.0 | Pityriasis lichenoides et varioliformis acuta |
| L41.1 | Pityriasis lichenoides chronica |
| L41.3 | Small plaque parapsoriasis |
| L41.4 | Large plaque parapsoriasis |
| L41.5 | Retiform parapsoriasis |
| L41.8 | Other parapsoriasis |
| L41.9 | Parapsoriasis, unspecified |
| L42 | Pityriasis rosea |
| L43.0 | Hypertrophic lichen planus |
| L43.1 | Bullous lichen planus |
| L43.2 380 | Lichenoid drug reaction |

| ICD-10 Code | Description |
|-------------|--|
| L43.3 | Subacute (active) lichen planus |
| L43.8 | Other lichen planus |
| L43.9 | Lichen planus, unspecified |
| L44.0 | Pityriasis rubra pilaris |
| L44.1 | Lichen nitidus |
| L44.2 | Lichen striatus |
| L44.3 | Lichen ruber moniliformis |
| L44.4 | Infantile papular acrodermatitis [Giannotti-Crosti] |
| L44.8 | Other specified papulosquamous disorders |
| L44.9 | Papulosquamous disorder, unspecified |
| L45 | Papulosquamous disorders in diseases classified elsewhere |
| L57.0 | Actinic keratosis |
| L57.1 | Actinic reticuloid |
| L57.2 | Cutis rhomboidalis nuchae |
| L57.3 | Poikiloderma of Civatte |
| L57.4 | Cutis laxa senilis |
| L57.5 | Actinic granuloma |
| L57.8 | Other skin changes due to chronic exposure to nonionizing radiation |
| L57.9 | Skin changes due to chronic exposure to nonionizing radiation, unspecified |
| L58.1 | Chronic radiodermatitis |
| L59.0 | Erythema ab igne [dermatitis ab igne] |
| L59.8 | Other specified disorders of skin and subcutaneous tissue related to radiation |
| L59.9 | Disorder of skin and subcutaneous tissue related to radiation, unspecified |
| L62.0 | Clubbed nail pachydermoperiostosis |
| L87.0 | Keratosis follicularis et parafollicularis in cutem penetrans [Kyrle] |
| L87.1 | Reactive perforating collagenosis |
| L87.2 | Elastosis perforans serpiginosa |
| L87.8 | Other transepidermal elimination disorders |
| L87.9 | Transepidermal elimination disorder, unspecified |
| L88 | Pyoderma gangrenosum |
| L90.0 | Lichen sclerosus et atrophicus |
| L90.1 | Anetoderma of Schweninger-Buzzi |
| L90.2 | Anetoderma of Jadassohn-Pellizzari |
| L90.3 | Atrophoderma of Pasini and Pierini |
| L90.4 | Acrodermatitis chronica atrophicans |
| L90.5 | Scar conditions and fibrosis of skin |
| L90.6 | Striae atrophicae |
| L90.8 | Other atrophic disorders of skin |
| L90.9 | Atrophic disorder of skin, unspecified |
| L92.0 | Granuloma annulare |
| L92.1 | Necrobiosis lipoidica, not elsewhere classified |
| L92.2 | Granuloma faciale [eosinophilic granuloma of skin] |
| L92.3 | Foreign body granuloma of skin and subcutaneous tissue |
| L92.8 | Other granulomatous disorders of skin and subcutaneous tissue |
| L92.9 | Granulomatous disorder of skin and subcutaneous tissue, unspecified |
| L93.0 | Discoid lupus erythematosus |
| L93.1 | Subacute cutaneous lupus erythematosus |

| ICD-10 Code | Description |
|-------------|---|
| L93.2 | Other local lupus erythematosus |
| L95.0 | Livedoid vasculitis |
| L95.1 | Erythema elevatum diutinum |
| L95.8 | Other vasculitis limited to skin |
| L95.9 | Vasculitis limited to skin, unspecified |
| L98.5 | Mucinosis of skin |
| L99.0 | Amyloidosis of skin |
| M01.1 | Tuberculous arthritis |
| M03.6 | Reactive arthropathy in other diseases classified elsewhere |
| M05.0 | Felty syndrome |
| M05.1 | Seropositive rheumatoid arthritis: Rheumatoid lung disease |
| M05.2 | Rheumatoid vasculitis |
| M05.3 | Rheumatoid arthritis with involvement of other organs and systems |
| M05.8 | Other seropositive rheumatoid arthritis |
| M05.9 | Seropositive rheumatoid arthritis, unspecified |
| M06.0 | Seronegative rheumatoid arthritis |
| M06.1 | Adult-onset Still disease |
| M06.2 | Rheumatoid bursitis |
| M06.3 | Rheumatoid nodule |
| M06.4 | Inflammatory polyarthropathy |
| M06.8 | Other specified rheumatoid arthritis |
| M06.9 | Rheumatoid arthritis, unspecified |
| M07.0 | Distal interphalangeal psoriatic arthropathy |
| M07.1 | Arthritis mutilans |
| M07.2 | Psoriatic spondylitis |
| M07.3 | Other psoriatic arthropathies |
| M07.4 | Arthropathy in Crohn disease [regional enteritis] |
| M07.6 | Other enteropathic arthropathies |
| M08.0 | Juvenile rheumatoid arthritis |
| M08.1 | Juvenile ankylosing spondylitis |
| M08.2 | Juvenile arthritis with systemic onset |
| M08.3 | Juvenile polyarthritis (seronegative) |
| M08.4 | Pauciarticular juvenile arthritis |
| M08.8 | Other juvenile arthritis |
| M08.9 | Juvenile arthritis, unspecified |
| M09.0 | Juvenile arthritis in psoriasis |
| M09.1 | Juvenile arthritis in Crohn disease [regional enteritis] |
| M09.2 | Juvenile arthritis in ulcerative colitis |
| M09.8 | Juvenile arthritis in other diseases classified elsewhere |
| M10.0 | Idiopathic gout |
| M10.1 | Lead-induced gout |
| M10.2 | Drug-induced gout |
| M10.3 | Gout due to impairment of renal function |
| M10.4 | Other secondary gout |
| M10.9 | Gout, unspecified |
| M11.0 | Hydroxyapatite deposition disease |
| M11.1 | Familial chondrocalcinosis |
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| ICD-10 Code | Description | |
|-------------|---|--|
| M11.2 | Other chondrocalcinosis | |
| M11.8 | Other specified crystal arthropathies | |
| M11.9 | Crystal arthropathy, unspecified | |
| M12.0 | Chronic postrheumatic arthropathy [Jaccoud] | |
| M12.1 | Kaschin-Beck disease | |
| M12.2 | Villonodular synovitis (pigmented) | |
| M12.3 | Palindromic rheumatism | |
| M12.4 | Intermittent hydrarthrosis | |
| M12.5 | Traumatic arthropathy | |
| M12.8 | Other specific arthropathies, not elsewhere classified | |
| M13.0 | Polyarthritis, unspecified | |
| M13.1 | Monoarthritis, not elsewhere classified | |
| M13.8 | Other specified arthritis | |
| M13.9 | Arthritis, unspecified | |
| M14.0 | Gouty arthropathy due to enzyme defects and other inherited disorders | |
| M14.2 | Diabetic arthropathy | |
| M14.3 | Lipoid dermatoarthritis | |
| M14.4 | Arthropathy in amyloidosis | |
| M14.5 | Arthropathies in other endocrine, nutritional and metabolic disorders | |
| M14.6 | Neuropathic arthropathy | |
| M14.8 | Arthropathies in other specified diseases classified elsewhere | |
| M30.0 | Polyarteritis nodosa | |
| M30.1 | Polyarteritis with lung involvement [Churg-Strauss] | |
| M30.2 | Juvenile polyarteritis | |
| M30.3 | Mucocutaneous lymph node syndrome [Kawasaki] | |
| M30.8 | Other conditions related to polyarteritis nodosa | |
| M31.0 | Hypersensitivity angiitis | |
| M31.1 | Thrombotic microangiopathy | |
| M31.2 | Lethal midline granuloma | |
| M31.4 | Aortic arch syndrome [Takayasu] | |
| M31.5 | Giant cell arteritis with polymyalgia rheumatica | |
| M31.6 | Other giant cell arteritis | |
| M31.7 | Microscopic polyangiitis | |
| M31.8 | Other specified necrotizing vasculopathies | |
| M31.9 | Necrotizing vasculopathy, unspecified | |
| M32.0 | Drug-induced systemic lupus erythematosus | |
| M32.8 | Other forms of systemic lupus erythematosus | |
| M32.9 | Systemic lupus erythematosus, unspecified | |
| M33.0 | Juvenile dermatomyositis | |
| M33.1 | Other dermatomyositis | |
| M33.2 | Polymyositis | |
| M33.9 | Dermatopolymyositis, unspecified | |
| M34.0 | Progressive systemic sclerosis | |
| M34.1 | CR(E)ST syndrome | |
| M34.2 | Systemic sclerosis induced by drugs and chemicals | |
| M34.8 | Other forms of systemic sclerosis | |
| M34.9 | Systemic sclerosis, unspecified | |

| ICD-10 Code | Description |
|--------------|--|
| M35.0 | Sicca syndrome [Sjögren] |
| M35.1 | Other overlap syndromes |
| M35.2 | Behçet disease |
| M35.3 | Polymyalgia rheumatica |
| M35.4 | Diffuse (eosinophilic) fasciitis |
| M35.5 | Multifocal fibrosclerosis |
| M35.6 | Relapsing panniculitis [Weber-Christian] |
| M35.7 | Hypermobility syndrome |
| M35.8 | Other specified systemic involvement of connective tissue |
| M35.9 | Systemic involvement of connective tissue, unspecified |
| M36.0 | Dermato(poly)myositis in neoplastic disease |
| M36.1 | Arthropathy in neoplastic disease |
| M36.2 | Haemophilic arthropathy |
| M36.3 | Arthropathy in other blood disorders |
| M36.4 | Arthropathy in hypersensitivity reactions classified elsewhere |
| M40.0 | Postural kyphosis |
| M40.1 | Other secondary kyphosis |
| M40.2 | Other and unspecified kyphosis |
| M40.3 | Flatback syndrome |
| M40.4 | Other lordosis |
| M40.5 | Lordosis, unspecified |
| M41.0 | Infantile idiopathic scoliosis |
| M41.1 | Juvenile idiopathic scoliosis |
| M41.2 | Other idiopathic scoliosis |
| M41.3 | Thoracogenic scoliosis |
| M41.4 | Neuromuscular scoliosis |
| M41.5 | Other secondary scoliosis |
| M41.8 | Other forms of scoliosis |
| M41.9 | Scoliosis, unspecified |
| M42.0 | Juvenile osteochondrosis of spine |
| M42.1 | Adult osteochondrosis of spine |
| M42.9 | Spinal osteochondrosis, unspecified |
| M43.0 | Spondylolysis |
| M43.1 | Spondylolisthesis |
| M43.2 | Other fusion of spine |
| M43.3 | Recurrent atlantoaxial subluxation with myelopathy |
| M43.4 | Other recurrent atlantoaxial subluxation |
| M43.5 | Other recurrent vertebral subluxation |
| M43.6 | Torticollis |
| M43.8 | Other specified deforming dorsopathies |
| M43.9 | Deforming dorsopathy, unspecified |
| M45 | Ankylosing spondylitis |
| M46.0 | Spinal enthesopathy |
| M46.1 | Sacroiliitis, not elsewhere classified |
| M46.2 | Osteomyelitis of vertebra |
| M46.3 | Infection of intervertebral disc (pyogenic) |
| M46.4 384 | Discitis, unspecified |

| ICD-10 Code | Description |
|-------------|---|
| M46.5 | Other infective spondylopathies |
| M46.8 | Other specified inflammatory spondylopathies |
| M46.9 | Inflammatory spondylopathy, unspecified |
| M47.0 | Anterior spinal and vertebral artery compression syndromes |
| M47.1 | Other spondylosis with myelopathy |
| M47.2 | Other spondylosis with radiculopathy |
| M47.8 | Other spondylosis |
| M47.9 | Spondylosis, unspecified |
| M48.0 | Spinal stenosis |
| M48.1 | Ankylosing hyperostosis [Forestier] |
| M48.2 | Kissing spine |
| M48.3 | Traumatic spondylopathy |
| M48.4 | Fatigue fracture of vertebra |
| M48.5 | Collapsed vertebra, not elsewhere classified |
| M48.8 | Other specified spondylopathies |
| M48.9 | Spondylopathy, unspecified |
| M49.0 | Tuberculosis of spine |
| M49.5 | Collapsed vertebra in diseases classified elsewhere |
| M50.0 | Cervical disc disorder with myelopathy |
| M50.1 | Cervical disc disorder with radiculopathy |
| M50.2 | Other cervical disc displacement |
| M50.3 | Other cervical disc degeneration |
| M50.8 | Other cervical disc disorders |
| M50.9 | Cervical disc disorder, unspecified |
| M51.0 | Lumbar and other intervertebral disc disorders with myelopathy |
| M51.1 | Lumbar and other intervertebral disc disorders with radiculopathy |
| M51.2 | Other specified intervertebral disc displacement |
| M51.3 | Other specified intervertebral disc degeneration |
| M51.4 | Schmorl nodes |
| M51.8 | Other specified intervertebral disc disorders |
| M51.9 | Intervertebral disc disorder, unspecified |
| M53.0 | Cervicocranial syndrome |
| M53.1 | Cervicobrachial syndrome |
| M53.2 | Spinal instabilities |
| M53.3 | Sacrococcygeal disorders, not elsewhere classified |
| M53.8 | Other specified dorsopathies |
| M53.9 | Dorsopathy, unspecified |
| M54.0 | Panniculitis affecting regions of neck and back |
| M54.1 | Radiculopathy |
| M54.2 | Cervicalgia |
| M54.3 | Sciatica |
| M54.4 | Lumbago with sciatica |
| M54.5 | Low back pain |
| M54.6 | Pain in thoracic spine |
| M54.8 | Other dorsalgia |
| M54.9 | Dorsalgia, unspecified |
| M60.0 | Infective myositis |

| ICD-10 Code | Description |
|--------------|--|
| M60.1 | Interstitial myositis |
| M60.2 | Foreign body granuloma of soft tissue, not elsewhere classified |
| M60.8 | Other myositis |
| M60.9 | Myositis, unspecified |
| M61.0 | Myositis ossificans traumatica |
| M61.1 | Myositis ossificans progressiva |
| M61.2 | Paralytic calcification and ossification of muscle |
| M61.3 | Calcification and ossification of muscles associated with burns |
| M61.4 | Other calcification of muscle |
| M61.5 | Other ossification of muscle |
| M61.9 | Calcification and ossification of muscle, unspecified |
| M62.0 | Diastasis of muscle |
| M62.1 | Other rupture of muscle (nontraumatic) |
| M62.2 | Ischaemic infarction of muscle |
| M62.3 | Immobility syndrome (paraplegic) |
| M62.4 | Contracture of muscle |
| M62.5 | Muscle wasting and atrophy, not elsewhere classified |
| M62.6 | Muscle strain |
| M62.8 | Other specified disorders of muscle |
| M62.9 | Disorder of muscle, unspecified |
| M63.8 | Other disorders of muscle in diseases classified elsewhere |
| M80.1 | Postoophorectomy osteoporosis with pathological fracture |
| M80.2 | Osteoporosis of disuse with pathological fracture |
| M80.3 | Postsurgical malabsorption osteoporosis with pathological fracture |
| M80.4 | Drug-induced osteoporosis with pathological fracture |
| M80.5 | Idiopathic osteoporosis with pathological fracture |
| M80.8 | Other osteoporosis with pathological fracture |
| M80.9 | Unspecified osteoporosis with pathological fracture |
| M81.1 | Postoophorectomy osteoporosis |
| M81.2 | Osteoporosis of disuse |
| M81.3 | Postsurgical malabsorption osteoporosis |
| M81.4 | Drug-induced osteoporosis |
| M81.5 | Idiopathic osteoporosis |
| M81.6 | Localized osteoporosis [Lequesne] |
| M81.8 | Other osteoporosis |
| M81.9 | Osteoporosis, unspecified |
| M82.0 | Osteoporosis in multiple myelomatosis |
| M82.1 | Osteoporosis in endocrine disorders |
| M82.8 | Osteoporosis in other diseases classified elsewhere |
| M84.0 | Malunion of fracture |
| M84.1 | Nonunion of fracture [pseudarthrosis] |
| M84.2 | Delayed union of fracture |
| M84.8 | Other disorders of continuity of bone |
| M84.9 | Disorder of continuity of bone, unspecified |
| M85.0 | Fibrous dysplasia (monostotic) |
| M85.1 | Skeletal fluorosis |
| M85.2 386 | Hyperostosis of skull |

| ICD-10 Code | Description |
|-------------|--|
| M85.3 | Osteitis condensans |
| M85.4 | Solitary bone cyst |
| M85.5 | Aneurysmal bone cyst |
| M85.6 | Other cyst of bone |
| M85.8 | Other specified disorders of bone density and structure |
| M85.9 | Disorder of bone density and structure, unspecified |
| M86.3 | Chronic multifocal osteomyelitis |
| M86.4 | Chronic osteomyelitis with draining sinus |
| M86.5 | Other chronic haematogenous osteomyelitis |
| M86.6 | Other chronic osteomyelitis |
| M89.0 | Algoneurodystrophy |
| M89.1 | Epiphyseal arrest |
| M89.2 | Other disorders of bone development and growth |
| M89.3 | Hypertrophy of bone |
| M89.4 | Other hypertrophic osteoarthropathy |
| M89.6 | Osteopathy after poliomyelitis |
| M89.8 | Other specified disorders of bone |
| M89.9 | Disorder of bone, unspecified |
| M90.0 | Tuberculosis of bone |
| M90.4 | Osteonecrosis due to haemoglobinopathy |
| M90.6 | Osteitis deformans in neoplastic disease |
| M90.7 | Fracture of bone in neoplastic disease |
| M90.8 | Osteopathy in other diseases classified elsewhere |
| M91.0 | Juvenile osteochondrosis of pelvis |
| M91.1 | Juvenile osteochondrosis of head of femur [Legg-Calvé-Perthes] |
| M91.2 | Coxa plana |
| M91.3 | Pseudocoxalgia |
| M91.8 | Other juvenile osteochondrosis of hip and pelvis |
| M91.9 | Juvenile osteochondrosis of hip and pelvis, unspecified |
| M92.0 | Juvenile osteochondrosis of humerus |
| M92.1 | Juvenile osteochondrosis of radius and ulna |
| M92.2 | Juvenile osteochondrosis of hand |
| M92.3 | Other juvenile osteochondrosis of upper limb |
| M92.4 | Juvenile osteochondrosis of patella |
| M92.5 | Juvenile osteochondrosis of tibia and fibula |
| M92.6 | Juvenile osteochondrosis of tarsus |
| M92.7 | Juvenile osteochondrosis of metatarsus |
| M92.8 | Other specified juvenile osteochondrosis |
| M92.9 | Juvenile osteochondrosis, unspecified |
| M93.0 | Slipped upper femoral epiphysis (nontraumatic) |
| M93.1 | Kienböck disease of adults |
| M93.2 | Osteochondritis dissecans |
| M93.8 | Other specified osteochondropathies |
| M93.9 | Osteochondropathy, unspecified |
| M94.0 | Chondrocostal junction syndrome [Tietze] |
| M94.1 | Relapsing polychondritis |
| M94.2 | Chondromalacia |

| ICD-10 Code | Description |
|-------------|--|
| M94.3 | Chondrolysis |
| M94.8 | Other specified disorders of cartilage |
| M94.9 | Disorder of cartilage, unspecified |
| N00 | Acute nephritic syndrome |
| N01 | Rapidly progressive nephritic syndrome |
| N02 | Recurrent and persistent haematuria |
| N03 | Chronic nephritic syndrome |
| N04 | Nephrotic syndrome |
| N05 | Unspecified nephritic syndrome |
| N07 | Hereditary nephropathy, not elsewhere classified |
| N08.1 | Glomerular disorders in neoplastic diseases |
| N08.2 | Glomerular disorders in blood diseases and disorders involving the immune mechanism |
| N08.3 | Glomerular disorders in diabetes mellitus |
| N08.4 | Glomerular disorders in other endocrine, nutritional and metabolic diseases |
| N08.5 | Glomerular disorders in systemic connective tissue disorders |
| N08.8 | Glomerular disorders in other diseases classified elsewhere |
| N11.0 | Nonobstructive reflux-associated chronic pyelonephritis |
| N11.1 | Chronic obstructive pyelonephritis |
| N11.8 | Other chronic tubulo-interstitial nephritis |
| N11.9 | Chronic tubulo-interstitial nephritis, unspecified |
| N12 | Tubulo-interstitial nephritis, not specified as acute or chronic |
| N13.0 | Hydronephrosis with ureteropelvic junction obstruction |
| N13.1 | Hydronephrosis with ureteral stricture, not elsewhere classified |
| N13.2 | Hydronephrosis with renal and ureteral calculous obstruction |
| N13.3 | Other and unspecified hydronephrosis |
| N13.4 | Hydroureter |
| N13.5 | Kinking and stricture of ureter without hydronephrosis |
| N13.6 | Pyonephrosis |
| N13.7 | Vesicoureteral-reflux-associated uropathy |
| N13.8 | Other obstructive and reflux uropathy |
| N13.9 | Obstructive and reflux uropathy, unspecified |
| N14.0 | Analgesic nephropathy |
| N14.1 | Nephropathy induced by other drugs, medicaments and biological substances |
| N14.2 | Nephropathy induced by other drugs, medicaments and biological substances |
| N14.3 | Nephropathy induced by dispectified drug, medicament of biological substance |
| N14.4 | Toxic nephropathy, not elsewhere classified |
| N15.0 | Balkan nephropathy |
| N15.1 | Renal and perinephric abscess |
| N15.8 | Other specified renal tubulo-interstitial diseases |
| N15.9 | Renal tubulo-interstitial disease, unspecified |
| | Renal tubulo-interstitial disease, unspectified Renal tubulo-interstitial disorders in infectious and parasitic diseases classified |
| N16.0 | elsewhere |
| N16.1 | Renal tubulo-interstitial disorders in neoplastic diseases |
| N16.2 | Renal tubulo-interstitial disorders in blood diseases and disorders involving the immune mechanism |
| N16.3 | Renal tubulo-interstitial disorders in metabolic diseases |
| N16.4 | Renal tubulo-interstitial disorders in systemic connective tissue disorders |

| ICD-10 Code | Description | |
|-------------|---|--|
| N16.5 | Renal tubulo-interstitial disorders in transplant rejection | |
| N16.8 | Renal tubulo-interstitial disorders in other diseases classified elsewhere | |
| N20.0 | Calculus of kidney | |
| N20.1 | Calculus of ureter | |
| N20.2 | Calculus of kidney with calculus of ureter | |
| N20.9 | Urinary calculus, unspecified | |
| N21.0 | Calculus in bladder | |
| N21.1 | Calculus in urethra | |
| N21.8 | Other lower urinary tract calculus | |
| N21.9 | Calculus of lower urinary tract, unspecified | |
| N22.0 | Urinary calculus in schistosomiasis [bilharziasis] | |
| N22.8 | Calculus of urinary tract in other diseases classified elsewhere | |
| N23 | Unspecified renal colic | |
| N25.0 | Renal osteodystrophy | |
| N25.9 | Disorder resulting from impaired renal tubular function, unspecified | |
| N26 | Unspecified contracted kidney | |
| N28.0 | Ischaemia and infarction of kidney | |
| N28.1 | Cyst of kidney, acquired | |
| N28.8 | Other specified disorders of kidney and ureter | |
| N28.9 | Disorder of kidney and ureter, unspecified | |
| N29.0 | Late syphilis of kidney | |
| N29.8 | Other disorders of kidney and ureter in other diseases classified elsewhere | |
| N31.0 | Uninhibited neuropathic bladder, not elsewhere classified | |
| N31.1 | Reflex neuropathic bladder, not elsewhere classified | |
| N31.2 | Flaccid neuropathic bladder, not elsewhere classified | |
| N31.8 | Other neuromuscular dysfunction of bladder | |
| N31.9 | Neuromuscular dysfunction of bladder, unspecified | |
| N32.0 | Bladder-neck obstruction | |
| N32.1 | Vesicointestinal fistula | |
| N32.2 | Vesical fistula, not elsewhere classified | |
| N32.3 | Diverticulum of bladder | |
| N32.4 | Rupture of bladder, nontraumatic | |
| N32.8 | Other specified disorders of bladder | |
| N32.9 | Bladder disorder, unspecified | |
| N33.0 | Tuberculous cystitis | |
| N33.8 | Bladder disorders in other diseases classified elsewhere | |
| N35.0 | Post-traumatic urethral stricture | |
| N35.1 | Postinfective urethral stricture, not elsewhere classified | |
| N35.8 | Other urethral stricture | |
| N35.9 | Urethral stricture, unspecified | |
| N36.0 | Urethral fistula | |
| N36.1 | Urethral diverticulum | |
| N36.2 | Urethral caruncle | |
| N36.3 | Prolapsed urethral mucosa | |
| N36.8 | Other specified disorders of urethra | |
| N36.9 | Urethral disorder, unspecified | |
| N39.1 | | |

| ICD-10 Code | Description |
|-------------|---|
| N39.3 | Stress incontinence |
| N39.4 | Other specified urinary incontinence |
| N40 | Hyperplasia of prostate |
| N42.0 | Calculus of prostate |
| N42.1 | Congestion and haemorrhage of prostate |
| N42.2 | Atrophy of prostate |
| N42.3 | Dysplasia of prostate |
| N42.8 | Other specified disorders of prostate |
| N42.9 | Disorder of prostate, unspecified |
| N70.1 | Chronic salpingitis and oophoritis |
| N70.9 | Salpingitis and oophoritis, unspecified |
| N71.1 | Chronic inflammatory disease of uterus |
| N71.9 | Inflammatory disease of uterus, unspecified |
| N72 | Inflammatory disease of cervix uteri |
| N73.0 | Acute parametritis and pelvic cellulitis |
| N73.1 | Chronic parametritis and pelvic cellulitis |
| N73.2 | Unspecified parametritis and pelvic cellulitis |
| N73.3 | Female acute pelvic peritonitis |
| N73.4 | Female chronic pelvic peritonitis |
| N73.5 | Female pelvic peritonitis, unspecified |
| N73.6 | Female pelvic peritoneal adhesions |
| N73.8 | Other specified female pelvic inflammatory diseases |
| N73.9 | Female pelvic inflammatory disease, unspecified |
| N74.0 | Tuberculous infection of cervix uteri |
| N74.1 | Female tuberculous pelvic inflammatory disease |
| N74.2 | Female syphilitic pelvic inflammatory disease |
| N74.3 | Female gonococcal pelvic inflammatory disease |
| N74.4 | Female chlamydial pelvic inflammatory disease |
| N74.8 | Female pelvic inflammatory disorders in other diseases classified elsewhere |
| N80.0 | Endometriosis of uterus |
| N80.1 | Endometriosis of ovary |
| N80.2 | Endometriosis of fallopian tube |
| N80.3 | Endometriosis of pelvic peritoneum |
| N80.4 | Endometriosis of rectovaginal septum and vagina |
| N80.5 | Endometriosis of intestine |
| N80.6 | Endometriosis in cutaneous scar |
| N80.8 | Other endometriosis |
| N80.9 | Endometriosis, unspecified |
| N81.0 | Female urethrocele |
| N81.1 | Cystocele |
| N81.2 | Incomplete uterovaginal prolapse |
| N81.3 | Complete uterovaginal prolapse |
| N81.4 | Uterovaginal prolapse, unspecified |
| N81.5 | Vaginal enterocele |
| N81.6 | Rectocele |
| N81.8 | Other female genital prolapse |
| N81.9 | Female genital prolapse, unspecified |
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| ICD-10 Code | Description | |
|-------------|---|--|
| N82.0 | Vesicovaginal fistula | |
| N82.1 | Other female urinary-genital tract fistulae | |
| N82.2 | Fistula of vagina to small intestine | |
| N82.3 | Fistula of vagina to large intestine | |
| N82.4 | Other female intestinal-genital tract fistulae | |
| N82.5 | Female genital tract-skin fistulae | |
| N82.8 | Other female genital tract fistulae | |
| N82.9 | Female genital tract fistula, unspecified | |
| N85.0 | Endometrial glandular hyperplasia | |
| N85.1 | Endometrial adenomatous hyperplasia | |
| N85.2 | Hypertrophy of uterus | |
| N85.3 | Subinvolution of uterus | |
| N85.4 | Malposition of uterus | |
| N85.5 | Inversion of uterus | |
| N85.6 | Intrauterine synechiae | |
| N85.7 | Haematometra | |
| N85.8 | Other specified noninflammatory disorders of uterus | |
| N85.9 | Noninflammatory disorder of uterus, unspecified | |
| N87.0 | Mild cervical dysplasia | |
| N87.1 | Moderate cervical dysplasia | |
| N87.2 | Severe cervical dysplasia, not elsewhere classified | |
| N87.9 | Dysplasia of cervix uteri, unspecified | |
| N88.0 | Leukoplakia of cervix uteri | |
| N88.1 | Old laceration of cervix uteri | |
| N88.2 | Stricture and stenosis of cervix uteri | |
| N88.3 | Incompetence of cervix uteri | |
| N88.4 | Hypertrophic elongation of cervix uteri | |
| N88.8 | Other specified noninflammatory disorders of cervix uteri | |
| N88.9 | Noninflammatory disorder of cervix uteri, unspecified | |
| 035.4 | Maternal care for (suspected) damage to fetus from alcohol | |
| P10.0 | Subdural haemorrhage due to birth injury | |
| P10.2 | Intraventricular haemorrhage due to birth injury | |
| P10.3 | Subarachnoid haemorrhage due to birth injury | |
| P10.4 | Tentorial tear due to birth injury | |
| P10.8 | Other intracranial lacerations and haemorrhages due to birth injury | |
| P10.9 | Unspecified intracranial laceration and haemorrhage due to birth injury | |
| P27.0 | Wilson-Mikity syndrome | |
| P27.1 | Bronchopulmonary dysplasia originating in the perinatal period | |
| P27.8 | Other chronic respiratory diseases originating in the perinatal period | |
| P27.9 | Unspecified chronic respiratory disease originating in the perinatal period | |
| P35.2 | Congenital herpesviral [herpes simplex] infection | |
| P35.9 | Congenital viral disease, unspecified | |
| P37.0 | Congenital tuberculosis | |
| P37.1 | Congenital toxoplasmosis | |
| P52.0 | Intraventricular (nontraumatic) haemorrhage, grade 1, of fetus and newborn | |
| P52.1 | Intraventricular (nontraumatic) haemorrhage, grade 2, of fetus and newborn | |
| P52.2 | Intraventricular (nontraumatic) haemorrhage, grade 3, of fetus and newborn | |

| ICD-10 Code | Description |
|--------------|--|
| P52.3 | Unspecified intraventricular (nontraumatic) haemorrhage of fetus and newborn |
| P52.5 | Subarachnoid (nontraumatic) haemorrhage of fetus and newborn |
| P52.6 | Cerebellar (nontraumatic) and posterior fossa haemorrhage of fetus and newborn |
| P52.8 | Other intracranial (nontraumatic) haemorrhages of fetus and newborn |
| P52.9 | Intracranial (nontraumatic) haemorrhage of fetus and newborn, unspecified |
| P57.0 | Kernicterus due to isoimmunization |
| P57.8 | Other specified kernicterus |
| P57.9 | Kernicterus, unspecified |
| P75 | Meconium ileus in cystic fibrosis |
| P90 | Convulsions of newborn |
| P91.1 | Acquired periventricular cysts of newborn |
| P96.0 | Congenital renal failure |
| Q00.1 | Craniorachischisis |
| Q02 | Microcephaly |
| Q03.0 | Malformations of aqueduct of Sylvius |
| Q03.8 | Other congenital hydrocephalus |
| Q04.1 | Arhinencephaly |
| Q04.5 | Megalencephaly |
| Q04.8 | Other specified congenital malformations of brain |
| Q06.0 | Amyelia |
| Q06.1 | Hypoplasia and dysplasia of spinal cord |
| Q06.2 | Diastematomyelia |
| Q06.3 | Other congenital cauda equina malformations |
| Q06.4 | Hydromyelia |
| Q06.8 | Other specified congenital malformations of spinal cord |
| Q06.9 | Congenital malformation of spinal cord, unspecified |
| Q07.8 | Other specified congenital malformations of nervous system |
| Q07.9 | Congenital malformation of nervous system, unspecified |
| Q10.4 | Absence and agenesis of lacrimal apparatus |
| Q10.7 | Congenital malformation of orbit |
| Q11.0 | Cystic eyeball |
| Q11.1 | Other anophthalmos |
| Q11.2 | Microphthalmos |
| Q11.3 | Macrophthalmos |
| Q12.0 | Congenital cataract |
| Q12.1 | Congenital displaced lens |
| Q12.2 | Coloboma of lens |
| Q12.3 | Congenital aphakia |
| Q12.4 | Spherophakia |
| Q12.8 | Other congenital lens malformations |
| Q12.9 | Congenital lens malformation, unspecified |
| Q13.0 | Coloboma of iris |
| Q13.1 | Absence of iris |
| Q13.2 | Other congenital malformations of iris |
| Q13.3 | Congenital corneal opacity |
| Q13.4 | Other congenital corneal malformations |
| Q13.8 392 | Other congenital malformations of anterior segment of eye |

| ICD-10 Code | Description | |
|-------------|---|--|
| Q13.9 | Congenital malformation of anterior segment of eye, unspecified | |
| Q14.0 | Congenital malformation of vitreous humour | |
| Q14.1 | Congenital malformation of retina | |
| Q14.2 | Congenital malformation of optic disc | |
| Q14.3 | Congenital malformation of choroid | |
| Q14.8 | Other congenital malformations of posterior segment of eye | |
| Q14.9 | Congenital malformation of posterior segment of eye, unspecified | |
| Q15.0 | Congenital glaucoma | |
| Q15.8 | Other specified congenital malformations of eye | |
| Q15.9 | Congenital malformation of eye, unspecified | |
| Q16.0 | Congenital absence of (ear) auricle | |
| Q16.1 | Congenital absence, atresia and stricture of auditory canal (external) | |
| Q16.2 | Absence of eustachian tube | |
| Q16.3 | Congenital malformation of ear ossicles | |
| Q16.4 | Other congenital malformations of middle ear | |
| Q16.5 | Congenital malformation of inner ear | |
| Q16.9 | Congenital malformation of ear causing impairment of hearing, unspecified | |
| Q18.8 | Other specified congenital malformations of face and neck | |
| Q20.1 | Double outlet right ventricle | |
| Q20.2 | Double outlet left ventricle | |
| Q20.5 | Discordant atrioventricular connection | |
| Q21.0 | Ventricular septal defect | |
| Q21.1 | Atrial septal defect | |
| Q21.2 | Atrioventricular septal defect | |
| Q21.4 | Aortopulmonary septal defect | |
| Q21.9 | Congenital malformation of cardiac septum, unspecified | |
| Q22.2 | Congenital pulmonary valve insufficiency | |
| Q22.3 | Other congenital malformations of pulmonary valve | |
| Q22.8 | Other congenital malformations of tricuspid valve | |
| Q22.9 | Congenital malformation of tricuspid valve, unspecified | |
| Q23.1 | Congenital insufficiency of aortic valve | |
| Q23.3 | Congenital mitral insufficiency | |
| Q23.8 | Other congenital malformations of aortic and mitral valves | |
| Q24.0 | Dextrocardia | |
| Q24.1 | Laevocardia | |
| Q24.2 | Cor triatriatum | |
| Q24.3 | Pulmonary infundibular stenosis | |
| Q24.4 | Congenital subaortic stenosis | |
| Q24.5 | Malformation of coronary vessels | |
| Q24.6 | Congenital heart block | |
| Q24.8 | Other specified congenital malformations of heart | |
| Q24.9 | Congenital malformation of heart, unspecified | |
| Q25.0 | Patent ductus arteriosus | |
| Q25.1 | Coarctation of aorta | |
| Q25.2 | Atresia of aorta | |
| Q25.3 | Stenosis of aorta | |
| | | |

| 025.8 Other congenital malformations of great arteries, 025.9 Congenital stenosis of vena cava 026.1 Persistent left superior vena cava 026.3 Partial anomalous pulmonary venous connection 026.5 Anomalous potal venous connection 026.5 Anomalous potal venous connection 026.7 Congenital mafformation of great vein, unspecified 027.0 Congenital and formations of renal artery 027.1 Congenital mafformations of renal artery 027.2 Other congenital malformations of peripheral vascular system 027.4 Congenital malformations of peripheral vascular system 027.9 Congenital mafformation of precerebral vescels 028.0 Arteriovenous malformation of precerebral vescels 028.1 Other mafformations of cerebral vessels 028.2 Congenital mafformation of or clualatory system, unspecified 030.0 Choanal atresia 031.0 Agenesis and underdevelopment of nose 030.2 Fissured, notched and cleft nose 030.3 Congenital mafformation of nose 031.0 Web of larynx 031.1 Congeni | ICD-10 Code | Description |
|---|---------------------|--|
| Q25.9 Congenital malformation of great arteries, unspecified Q26.1 Persistent left superior vena cava Q26.3 Partial anomalous pulmonary venous connection Q26.4 Partial anomalous pulmonary venous connection Q26.5 Anomalous portal venous connection Q26.9 Congenital malformation of great vein, unspecified Q27.0 Congenital malformations of renal artery Q27.1 Congenital malformations of renal artery Q27.2 Other congenital malformations of renal artery Q27.3 Peripheral arteriovenous malformation Q27.4 Congenital malformation of precerebral vescular system Q27.8 Other specified congenital malformations of peripheral vascular system Q28.0 Arteriovenous malformation of precerebral vessels Q28.1 Other malformation of circulary system, unspecified Q30.0 Choanal atresia Q30.1 Agenesis and underdevelopment of nose Q30.2 Fissured, notched and cleft nose Q30.3 Congenital malformations of nose, unspecified Q30.4 Congenital malformations of nose Q30.5 Congenital malformations of larynx | | • |
| Q26.0 Congenital stenosis of vena cava Q26.1 Persistent left superior vena cava Q26.3 Partial anomalous pulmonary venous connection Q26.5 Anomalous portal venous connection Q26.5 Congenital malformation of great vein, unspecified Q27.0 Congenital ansers and hypoplasia of umbilical artery Q27.1 Congenital malformations of renal artery Q27.3 Peripheral arteriovenous malformations of peripheral vascular system Q27.4 Congenital malformations of peripheral vascular system Q27.8 Other specified congenital malformations of peripheral vascular system Q27.8 Other malformations of precerebral vessels Q28.0 Arteriovenous malformation of percerbral vessels Q28.1 Other malformations of creater vessels Q30.0 Choanal atresia Q30.0 Choanal atresia Q30.1 Agenesis and underdevelopment of nose Q30.2 Fissured, notched and cleft nose Q30.3 Congenital malformations of nose Q31.0 Web of larynx Q31.1 Congenital subglottic stenosis Q31.2 Laryngcele | Q25.9 | |
| Q26.1 Persistent left superior vena cava Q26.3 Partial anomalous pulmonary venous connection Q26.5 Anomalous portal venous connection Q26.7 Congenital malformation of great vein, unspecified Q27.0 Congenital absence and hypoplasia of umbilical artery Q27.1 Congenital malformations of renal artery Q27.2 Other congenital malformations of peral artery Q27.3 Peripheral arteriovenous malformation Q27.4 Congenital phlebectasia Q27.8 Other specified congenital malformations of peripheral vascular system Q28.0 Arteriovenous malformation of precerebral vessels Q28.1 Other malformation of circulatory system, unspecified Q30.0 Choanal atresia Q30.1 Agenesis and underdevelopment of nose Q30.2 Fissured, notched and cleft nose Q30.3 Congenital malformation of nose, unspecified Q31.1 Agenesis and underdevelopment of nose Q30.2 Fissured, notched and septum Q30.3 Congenital malformations of nose Q30.4 Congenital malformations of larynx Q31.5 Congeni | Q26.0 | |
| Q26.3 Partial anomalous portal venous connection Q26.9 Congenital mafformation of great vein, unspecified Q27.0 Congenital absence and hypoplasia of umbilical artery Q27.1 Congenital anafformations of renal artery Q27.3 Peripheral arteriovenous malformation Q27.4 Congenital phebectasia Q27.5 Other specified congenital malformations of peripheral vascular system Q27.4 Congenital mafformation of peripheral vascular system Q27.5 Congenital mafformation of precerebral vessels Q28.1 Other maiformations of crecerebral vessels Q28.3 Other maiformations of crecerebral vessels Q28.4 Congenital malformation of inculatory system, unspecified Q30.0 Choanal atresia Q30.1 Agenesis and underdevelopment of nose Q30.2 Fissured, notched and cleft nose Q30.3 Congenital malformations of nose Q30.4 Congenital malformation of nose, unspecified Q31.1 Congenital malformation of larynx Q30.2 Fissured, notched and cleft nose Q30.3 Congenital malformation of larynx Q31.4 | Q26.1 | |
| Q26.5 Anomalous portal venous connection Q26.9 Congenital malformation of great vein, unspecified Q27.0 Congenital absence and hypoplasia of umbilical artery Q27.1 Congenital malformations of renal artery Q27.3 Peripheral arteriovenous malformation Q27.4 Congenital phlebetcasia Q27.8 Other specified congenital malformations of peripheral vascular system Q27.8 Other specified congenital malformations of peripheral vascular system Q27.8 Other malformation of precerebral vessels Q28.0 Arteriovenous malformation of precerebral vessels Q28.1 Other malformations of circulatory system, unspecified Q30.0 Choanal atresia Q30.1 Agenesis and underdevelopment of nose Q30.2 Fissured, notched and cleft nose Q30.3 Congenital malformations of nose Q30.4 Other congenital malformations of larynx Q31.1 Congenital malformation of nose, unspecified Q30.2 Fissured, notched and cleft nose Q30.3 Congenital malformations of nose Q31.4 Congenital malformation of larynx Q31.5 Congenital malformation of larynx <tr< td=""><td>Q26.3</td><td></td></tr<> | Q26.3 | |
| Q26.9 Congenital maiformation of great vein, unspecified Q27.1 Congenital absence and hypoplasia of umbilical artery Q27.2 Other congenital maiformations of renal artery Q27.3 Peripheral arteriovenous malformation Q27.4 Congenital maiformations of prenpheral vascular system Q27.5 Other specified congenital maiformations of peripheral vascular system Q27.4 Congenital maiformation of percerebral vascular system Q27.9 Congenital maiformation of percerebral vessels Q28.0 Arteriovenous maiformation of precerebral vessels Q28.1 Other malformations of circulatory system, unspecified Q30.0 Choanal artesia Q30.1 Agenesis and underdevelopment of nose Q30.2 Fissured, notched and cleft nose Q30.3 Congenital maiformations of nose Q30.4 Other congenital maiformations of larynx Q31.1 Congenital maiformation of nose Q30.2 Fissured, notched and cleft nose Q30.3 Congenital maiformations of nose Q30.4 Other congenital maiformations of larynx Q31.1 Laryngocele Q31.2 <td>Q26.5</td> <td></td> | Q26.5 | |
| Q27.0 Congenital absence and hypoplasia of umbilical artery Q27.1 Congenital renal artery stenosis Q27.2 Other congenital malformations of renal artery Q27.3 Peripheral arteriovenous malformation Q27.4 Congenital phebectasia Q27.8 Other specified congenital malformations of peripheral vascular system Q27.9 Congenital malformation of percerbaral vascular system, unspecified Q28.1 Other malformations of precerebral vessels Q28.2 Other malformations of creverbaral vessels Q28.3 Other malformations of creverbaral vessels Q28.4 Other malformations of creverbaral vessels Q28.5 Congenital malformation of inculatory system, unspecified Q30.0 Choanal atresia Q30.1 Agenesis and underdevelopment of nose Q30.2 Fissured, notched and cleft nose Q30.3 Congenital malformations of nose Q30.4 Other congenital malformations of larynx Q31.1 Congenital subglottic stenosis Q31.2 Laryngeal hypoplasia Q31.3 Congenital anaformations of larynx Q31.4 Congenital malformations of larynx Q31.5 | Q26.9 | · · · |
| Q27.2 Other congenital malformations of renal artery Q27.3 Peripheral arteriovenous malformation Q27.4 Congenital phlebectasia Q27.5 Other specified congenital malformations of peripheral vascular system Q27.9 Congenital malformation of peripheral vascular system, unspecified Q28.0 Arteriovenous malformation of precerebral vessels Q28.1 Other malformations of cerebral vessels Q28.2 Other malformation of circulatory system, unspecified Q30.0 Choanal atresia Q30.1 Agenesis and underdevelopment of nose Q30.2 Fissured, notched and cleft nose Q30.3 Congenital malformations of nose Q30.4 Other congenital malformations of nose Q30.5 Congenital malformation of nose Q30.6 Other congenital malformations of lose Q30.7 Congenital subglottic stenosis Q31.1 Congenital subglottic stenosis Q31.2 Laryngeal hypoplasia Q31.3 Laryngocele Q31.4 Congenital malformation of larynx Q31.5 Congenital malformation of larynx Q31.6 Other congenital malformation of larynx | Q27.0 | |
| Q27.2 Other congenital malformations of renal artery Q27.3 Peripheral arteriovenous malformation Q27.4 Congenital phlebectasia Q27.9 Oongenital malformations of peripheral vascular system Q27.9 Congenital malformation of precerebral vessels Q28.0 Arteriovenous malformation of precerebral vessels Q28.1 Other malformations of crebral vessels Q28.2 Congenital malformation of circulatory system, unspecified Q30.0 Choanal atresia Q30.1 Agenesis and underdevelopment of nose Q30.2 Fissured, notched and cleft nose Q30.3 Congenital malformations of nose, unspecified Q30.4 Other congenital malformations of nose Q30.5 Congenital malformation of nose, unspecified Q31.0 Web of larynx Q31.1 Congenital subglottic stenosis Q31.2 Laryngeal hypoplasia Q31.3 Laryngeal hypoplasia Q31.4 Laryngeal hypoplasia Q31.5 Congenital malformations of larynx Q31.6 Other congenital malformations of larynx Q31.7 Congenital malformation of larynx Q31.8 | Q27.1 | |
| Q27.3 Peripheral arteriovenous malformation Q27.4 Congenital phlebectasia Q27.9 Congenital malformation of peripheral vascular system Q28.0 Arteriovenous malformation of precerebral vessels Q28.1 Other malformations of precerebral vessels Q28.2 Arteriovenous malformation of circulatory system, unspecified Q28.3 Other malformations of cerebral vessels Q28.4 Congenital malformation of circulatory system, unspecified Q30.0 Choanal atresia Q30.1 Agenesis and underdevelopment of nose Q30.2 Fissured, notched and cleft nose Q30.3 Congenital malformations of nose Q30.4 Other congenital malformation of nose, unspecified Q31.0 Web of larynx Q31.1 Congenital malformation of nose, unspecified Q31.2 Laryngeal hypoplasia Q31.3 Laryngeal hypoplasia Q31.4 Congenital anaformations of larynx Q31.5 Congenital malformation of larynx, unspecified Q31.4 Laryngeal hypoplasia Q31.5 Congenital malformations of larynx Q32.0 Congenital malformations of larynx | Q27.2 | |
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| Q27.9Congenital malformation of peripheral vascular system, unspecifiedQ28.0Arteriovenous malformation of precerebral vesselsQ28.1Other malformations of precerebral vesselsQ28.3Other malformations of creabral vesselsQ28.9Congenital malformation of circulatory system, unspecifiedQ30.0Choanal atresiaQ30.1Agenesis and underdevelopment of noseQ30.2Fissured, notched and cleft noseQ30.3Congenital malformations of noseQ30.4Congenital malformations of noseQ30.5Congenital malformations of noseQ30.6Congenital malformations of noseQ30.7Congenital malformations of noseQ30.8Other congenital malformations of noseQ30.9Congenital subglottic stenosisQ31.1Congenital subglottic stenosisQ31.2Laryngeal hypoplasiaQ31.3LaryngoceleQ31.4Other congenital malformations of larynxQ31.5Congenital malformation of larynx, unspecifiedQ3.0Congenital malformation of bronchusQ3.1Congenital malformation of bronchusQ3.2Congenital stenosis of bronchusQ3.3Congenital stenosis of bronchusQ3.4Other congenital malformations of bronchusQ3.2Congenital stenosis of bronchusQ3.3Agenesis of lungQ3.4Congenital periorations of lungQ3.3Agenesis of lungQ3.4Congenital malformations of lungQ3.5Ectopic tissue in lungQ3.6C | Q27.4 | Congenital phlebectasia |
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| Q28.9Congenital malformation of circulatory system, unspecifiedQ30.0Choanal atresiaQ30.1Agenesis and underdevelopment of noseQ30.2Fissured, notched and cleft noseQ30.3Congenital perforated nasal septumQ30.4Other congenital malformations of noseQ30.9Congenital malformation of nose, unspecifiedQ31.0Web of larynxQ31.1Congenital subglottic stenosisQ31.2Laryngeal hypoplasiaQ31.3LaryngoceleQ31.4Other congenital malformations of larynxQ31.5Congenital larlformations of larynxQ31.6Other congenital malformations of larynxQ31.7Congenital malformations of larynxQ31.8Other congenital malformations of larynxQ32.0Congenital tracheomalaciaQ32.2Congenital tracheomalaciaQ32.3Congenital tracheomalaciaQ32.4Other congenital malformations of bronchusQ33.1Accessory lobe of lungQ33.2Sequestration of lungQ33.3Agenesis of lungQ33.4Congenital pronchoitectasisQ33.5Ectopic tissue in lungQ33.6Other congenital malformations of lungQ33.7Congenital malformation of lung, unspecifiedQ34.0Anomaly of pleuraQ34.4Other congenital malformations of lungQ33.4Congenital bronchoitectasisQ33.5Ectopic tissue in lungQ34.0Anomaly of pleuraQ34.1Congenital malformation of lung, unspecifie | Q28.1 | Other malformations of precerebral vessels |
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| Q31.5Congenital laryngomalaciaQ31.8Other congenital malformations of larynxQ31.9Congenital malformation of larynx, unspecifiedQ32.0Congenital tracheomalaciaQ32.2Congenital bronchomalaciaQ32.3Congenital stenosis of bronchusQ32.4Other congenital malformations of bronchusQ33.0Congenital cystic lungQ33.1Accessory lobe of lungQ33.2Sequestration of lungQ33.3Agenesis of lungQ33.4Congenital bronchiectasisQ33.5Ectopic tissue in lungQ33.8Other congenital malformations of lungQ33.9Congenital malformations of lungQ34.0Anomaly of pleuraQ34.8Other congenital malformations of respiratory system | Q31.2 | Laryngeal hypoplasia |
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| Q32.0Congenital tracheomalaciaQ32.2Congenital bronchomalaciaQ32.3Congenital stenosis of bronchusQ32.4Other congenital malformations of bronchusQ33.0Congenital cystic lungQ33.1Accessory lobe of lungQ33.2Sequestration of lungQ33.3Agenesis of lungQ33.4Congenital bronchiectasisQ33.5Ectopic tissue in lungQ33.8Other congenital malformations of lungQ33.9Congenital malformations of lungQ34.0Anomaly of pleuraQ34.8Other specified congenital malformations of respiratory system | Q31.8 | Other congenital malformations of larynx |
| Q32.2Congenital bronchomalaciaQ32.3Congenital stenosis of bronchusQ32.4Other congenital malformations of bronchusQ33.0Congenital cystic lungQ33.1Accessory lobe of lungQ33.2Sequestration of lungQ33.3Agenesis of lungQ33.4Congenital bronchiectasisQ33.5Ectopic tissue in lungQ33.8Other congenital malformations of lungQ33.9Congenital malformation of lung, unspecifiedQ34.0Anomaly of pleuraQ34.8Other specified congenital malformations of respiratory system | Q31.9 | Congenital malformation of larynx, unspecified |
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| Q32.4Other congenital malformations of bronchusQ33.0Congenital cystic lungQ33.1Accessory lobe of lungQ33.2Sequestration of lungQ33.3Agenesis of lungQ33.4Congenital bronchiectasisQ33.5Ectopic tissue in lungQ33.8Other congenital malformations of lung, unspecifiedQ34.0Anomaly of pleuraQ34.1Congenital cyst of mediastinumQ34.8Other specified congenital malformations of respiratory system | Q32.2 | Congenital bronchomalacia |
| Q33.0Congenital cystic lungQ33.1Accessory lobe of lungQ33.2Sequestration of lungQ33.3Agenesis of lungQ33.4Congenital bronchiectasisQ33.5Ectopic tissue in lungQ33.8Other congenital malformations of lung, unspecifiedQ34.0Anomaly of pleuraQ34.1Congenital cyst of mediastinumQ34.8Other specified congenital malformations of respiratory system | Q32.3 | Congenital stenosis of bronchus |
| Q33.1Accessory lobe of lungQ33.2Sequestration of lungQ33.3Agenesis of lungQ33.4Congenital bronchiectasisQ33.5Ectopic tissue in lungQ33.8Other congenital malformations of lung, unspecifiedQ34.0Anomaly of pleuraQ34.1Congenital cyst of mediastinumQ34.8Other specified congenital malformations of respiratory system | | Other congenital malformations of bronchus |
| Q33.2Sequestration of lungQ33.3Agenesis of lungQ33.4Congenital bronchiectasisQ33.5Ectopic tissue in lungQ33.8Other congenital malformations of lungQ33.9Congenital malformation of lung, unspecifiedQ34.0Anomaly of pleuraQ34.1Congenital cyst of mediastinumQ34.8Other specified congenital malformations of respiratory system | Q33.0 | |
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| Q33.4Congenital bronchiectasisQ33.5Ectopic tissue in lungQ33.8Other congenital malformations of lungQ33.9Congenital malformation of lung, unspecifiedQ34.0Anomaly of pleuraQ34.1Congenital cyst of mediastinumQ34.8Other specified congenital malformations of respiratory system | - | Sequestration of lung |
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| Q33.8Other congenital malformations of lungQ33.9Congenital malformation of lung, unspecifiedQ34.0Anomaly of pleuraQ34.1Congenital cyst of mediastinumQ34.8Other specified congenital malformations of respiratory system | | |
| Q33.9Congenital malformation of lung, unspecifiedQ34.0Anomaly of pleuraQ34.1Congenital cyst of mediastinumQ34.8Other specified congenital malformations of respiratory system | | |
| Q34.0Anomaly of pleuraQ34.1Congenital cyst of mediastinumQ34.8Other specified congenital malformations of respiratory system | | |
| Q34.1Congenital cyst of mediastinumQ34.8Other specified congenital malformations of respiratory system | | |
| Q34.8 Other specified congenital malformations of respiratory system | | |
| | | |
| Q34.9 Congenital malformation of respiratory system, unspecified | | |
| | Q34.9 394 | Congenital malformation of respiratory system, unspecified |

| ICD-10 Code | Description |
|-------------|--|
| Q35.1 | Cleft hard palate |
| Q35.3 | Cleft soft palate |
| Q35.5 | Cleft hard palate with cleft soft palate |
| Q35.7 | Cleft uvula |
| Q35.9 | Cleft palate, unspecified |
| Q36.0 | Cleft lip, bilateral |
| Q36.1 | Cleft lip, median |
| Q36.9 | Cleft lip, unilateral |
| Q37.0 | Cleft hard palate with bilateral cleft lip |
| Q37.1 | Cleft hard palate with unilateral cleft lip |
| Q37.2 | Cleft soft palate with bilateral cleft lip |
| Q37.3 | Cleft soft palate with unilateral cleft lip |
| Q37.4 | Cleft hard and soft palate with bilateral cleft lip |
| Q37.5 | Cleft hard and soft palate with unilateral cleft lip |
| Q37.8 | Unspecified cleft palate with bilateral cleft lip |
| Q37.9 | Unspecified cleft palate with unilateral cleft lip |
| Q38.0 | Congenital malformations of lips, not elsewhere classified |
| Q38.3 | Other congenital malformations of tongue |
| Q38.4 | Congenital malformations of salivary glands and ducts |
| Q38.6 | Other congenital malformations of mouth |
| Q38.7 | Pharyngeal pouch |
| Q38.8 | Other congenital malformations of pharynx |
| Q39.0 | Atresia of oesophagus without fistula |
| Q39.1 | Atresia of oesophagus with tracheo-oesophageal fistula |
| Q39.2 | Congenital tracheo-oesophageal fistula without atresia |
| Q39.3 | Congenital stenosis and stricture of oesophagus |
| Q39.4 | Oesophageal web |
| Q39.5 | Congenital dilatation of oesophagus |
| Q39.8 | Other congenital malformations of oesophagus |
| Q39.9 | Congenital malformation of oesophagus, unspecified |
| Q40.2 | Other specified congenital malformations of stomach |
| Q40.3 | Congenital malformation of stomach, unspecified |
| Q40.8 | Other specified congenital malformations of upper alimentary tract |
| Q41.1 | Congenital absence, atresia and stenosis of jejunum |
| Q41.2 | Congenital absence, atresia and stenosis of ileum |
| Q41.8 | Congenital absence, atresia and stenosis of other specified parts of small intestine |
| Q42.0 | Congenital absence, atresia and stenosis of rectum with fistula |
| Q42.1 | Congenital absence, atresia and stenosis of rectum without fistula |
| Q42.2 | Congenital absence, atresia and stenosis of anus with fistula |
| Q42.3 | Congenital absence, atresia and stenosis of anus without fistula |
| Q42.8 | Congenital absence, atresia and stenosis of other parts of large intestine |
| Q42.9 | Congenital absence, atresia and stenosis of large intestine, part unspecified |
| Q43.1 | Hirschsprung disease |
| Q43.3 | Congenital malformations of intestinal fixation |
| Q43.4 | Duplication of intestine |
| Q43.5 | Ectopic anus |
| Q43.6 | Congenital fistula of rectum and anus |
| | 30 |

| Q43.9 Congenital maiformation of intestine, unspecified Q44.1 Other congenital maiformations of gallbladder Q44.1 Other congenital maiformations of bile duts Q44.4 Choledochal cyst Q44.5 Other congenital maiformations of bile duts Q44.4 Choledochal cyst Q44.5 Other congenital maiformations of bile duts Q45.1 Annular pancreas Q45.2 Congenital maiformations of pancreas and pancreatic duct Q45.3 Other congenital maiformations of digestive system Q45.3 Other congenital maiformations of digestive system Q45.4 Congenital abscie of ovary Q50.0 Congenital abscie of ovary Q51.1 Doubling of uterus with doubling of cervix and vagina Q51.2 Other doubling of uterus Q51.4 Unicornate uterus Q51.4 Unicornate uterus Q51.4 Unicornate uterus Q51.4 Lunicornate uterus Q51.4 Unicornate uterus Q51.5 Agenesis and plasia of uterus and cigestive and urinary tracts Q51.4 Unicornate uterus | ICD-10 Code | Description |
|---|-------------|--|
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| Q54.0Hypospadias, balanicQ54.1Hypospadias, penileQ54.2Hypospadias, penoscrotalQ54.3Hypospadias, perinealQ54.4Other hypospadiasQ54.5Other hypospadiasQ54.9Hypospadias, unspecifiedQ55.0Absence and aplasia of testisQ55.5Congenital absence and aplasia of penisQ56.0Hermaphroditism, not elsewhere classifiedQ56.1Male pseudohermaphroditism, not elsewhere classifiedQ56.2Female pseudohermaphroditism, not elsewhere classifiedQ56.3Pseudohermaphroditism, unspecifiedQ56.4Indeterminate sex, unspecifiedQ60.2Renal agenesis, unspecifiedQ60.4Renal hypoplasia, bilateralQ60.5Renal hypoplasia, unspecifiedQ61.0Congenital single renal cystQ61.2Polycystic kidney, autosomal dominant | Q52.2 | Congenital rectovaginal fistula |
| Q54.1Hypospadias, penileQ54.2Hypospadias, penoscrotalQ54.3Hypospadias, perinealQ54.3Hypospadias, perinealQ54.4Other hypospadiasQ54.9Hypospadias, unspecifiedQ55.0Absence and aplasia of testisQ55.5Congenital absence and aplasia of penisQ56.0Hermaphroditism, not elsewhere classifiedQ56.1Male pseudohermaphroditism, not elsewhere classifiedQ56.2Female pseudohermaphroditism, not elsewhere classifiedQ56.3Pseudohermaphroditism, unspecifiedQ56.4Indeterminate sex, unspecifiedQ60.2Renal agenesis, unspecifiedQ60.4Renal hypoplasia, bilateralQ60.5Renal hypoplasia, unspecifiedQ61.0Congenital single renal cystQ61.2Polycystic kidney, autosomal dominant | Q52.4 | Other congenital malformations of vagina |
| Q54.2Hypospadias, penoscrotalQ54.3Hypospadias, perinealQ54.3Other hypospadiasQ54.4Other hypospadiasQ54.9Hypospadias, unspecifiedQ55.0Absence and aplasia of testisQ55.5Congenital absence and aplasia of penisQ56.0Hermaphroditism, not elsewhere classifiedQ56.1Male pseudohermaphroditism, not elsewhere classifiedQ56.2Female pseudohermaphroditism, not elsewhere classifiedQ56.3Pseudohermaphroditism, unspecifiedQ56.4Indeterminate sex, unspecifiedQ60.2Renal agenesis, unspecifiedQ60.4Renal hypoplasia, bilateralQ60.5Renal hypoplasia, unspecifiedQ61.0Congenital single renal cystQ61.2Polycystic kidney, autosomal recessiveQ61.2Polycystic kidney, autosomal dominant | Q54.0 | Hypospadias, balanic |
| Q54.3Hypospadias, perinealQ54.3Other hypospadiasQ54.9Hypospadias, unspecifiedQ55.0Absence and aplasia of testisQ55.5Congenital absence and aplasia of penisQ56.0Hermaphroditism, not elsewhere classifiedQ56.1Male pseudohermaphroditism, not elsewhere classifiedQ56.2Female pseudohermaphroditism, not elsewhere classifiedQ56.3Pseudohermaphroditism, unspecifiedQ56.4Indeterminate sex, unspecifiedQ60.2Renal agenesis, unspecifiedQ60.4Renal hypoplasia, bilateralQ60.5Renal hypoplasia, unspecifiedQ61.0Congenital single renal cystQ61.2Polycystic kidney, autosomal dominant | Q54.1 | Hypospadias, penile |
| Q54.8Other hypospadiasQ54.9Hypospadias, unspecifiedQ55.0Absence and aplasia of testisQ55.5Congenital absence and aplasia of penisQ56.0Hermaphroditism, not elsewhere classifiedQ56.1Male pseudohermaphroditism, not elsewhere classifiedQ56.2Female pseudohermaphroditism, not elsewhere classifiedQ56.3Pseudohermaphroditism, unspecifiedQ56.4Indeterminate sex, unspecifiedQ60.2Renal agenesis, unspecifiedQ60.5Renal hypoplasia, bilateralQ60.5Renal hypoplasia, unspecifiedQ61.1Polycystic kidney, autosomal recessiveQ61.2Polycystic kidney, autosomal dominant | Q54.2 | Hypospadias, penoscrotal |
| Q54.9Hypospadias, unspecifiedQ55.0Absence and aplasia of testisQ55.5Congenital absence and aplasia of penisQ56.0Hermaphroditism, not elsewhere classifiedQ56.1Male pseudohermaphroditism, not elsewhere classifiedQ56.2Female pseudohermaphroditism, not elsewhere classifiedQ56.3Pseudohermaphroditism, unspecifiedQ56.4Indeterminate sex, unspecifiedQ60.2Renal agenesis, unspecifiedQ60.4Renal hypoplasia, bilateralQ60.5Renal hypoplasia, unspecifiedQ61.0Congenital single renal cystQ61.1Polycystic kidney, autosomal recessiveQ61.2Polycystic kidney, autosomal dominant | Q54.3 | Hypospadias, perineal |
| Q55.0Absence and aplasia of testisQ55.5Congenital absence and aplasia of penisQ56.0Hermaphroditism, not elsewhere classifiedQ56.1Male pseudohermaphroditism, not elsewhere classifiedQ56.2Female pseudohermaphroditism, not elsewhere classifiedQ56.3Pseudohermaphroditism, unspecifiedQ56.4Indeterminate sex, unspecifiedQ60.2Renal agenesis, unspecifiedQ60.4Renal hypoplasia, bilateralQ60.5Renal hypoplasia, unspecifiedQ61.0Congenital single renal cystQ61.1Polycystic kidney, autosomal recessiveQ61.2Polycystic kidney, autosomal dominant | Q54.8 | Other hypospadias |
| Q55.5Congenital absence and aplasia of penisQ56.0Hermaphroditism, not elsewhere classifiedQ56.1Male pseudohermaphroditism, not elsewhere classifiedQ56.2Female pseudohermaphroditism, not elsewhere classifiedQ56.3Pseudohermaphroditism, unspecifiedQ56.4Indeterminate sex, unspecifiedQ60.2Renal agenesis, unspecifiedQ60.4Renal hypoplasia, bilateralQ60.5Renal hypoplasia, unspecifiedQ61.0Congenital single renal cystQ61.2Polycystic kidney, autosomal dominant | Q54.9 | Hypospadias, unspecified |
| Q56.0Hermaphroditism, not elsewhere classifiedQ56.1Male pseudohermaphroditism, not elsewhere classifiedQ56.2Female pseudohermaphroditism, not elsewhere classifiedQ56.3Pseudohermaphroditism, unspecifiedQ56.4Indeterminate sex, unspecifiedQ60.2Renal agenesis, unspecifiedQ60.4Renal hypoplasia, bilateralQ60.5Renal hypoplasia, unspecifiedQ61.0Congenital single renal cystQ61.1Polycystic kidney, autosomal dominant | Q55.0 | Absence and aplasia of testis |
| Q56.1Male pseudohermaphroditism, not elsewhere classifiedQ56.2Female pseudohermaphroditism, not elsewhere classifiedQ56.3Pseudohermaphroditism, unspecifiedQ56.4Indeterminate sex, unspecifiedQ60.2Renal agenesis, unspecifiedQ60.4Renal hypoplasia, bilateralQ60.5Renal hypoplasia, unspecifiedQ61.0Congenital single renal cystQ61.1Polycystic kidney, autosomal dominant | Q55.5 | Congenital absence and aplasia of penis |
| Q56.2Female pseudohermaphroditism, not elsewhere classifiedQ56.3Pseudohermaphroditism, unspecifiedQ56.4Indeterminate sex, unspecifiedQ60.2Renal agenesis, unspecifiedQ60.4Renal hypoplasia, bilateralQ60.5Renal hypoplasia, unspecifiedQ61.0Congenital single renal cystQ61.1Polycystic kidney, autosomal recessiveQ61.2Polycystic kidney, autosomal dominant | Q56.0 | Hermaphroditism, not elsewhere classified |
| Q56.3Pseudohermaphroditism, unspecifiedQ56.4Indeterminate sex, unspecifiedQ60.2Renal agenesis, unspecifiedQ60.4Renal hypoplasia, bilateralQ60.5Renal hypoplasia, unspecifiedQ61.0Congenital single renal cystQ61.1Polycystic kidney, autosomal recessiveQ61.2Polycystic kidney, autosomal dominant | Q56.1 | Male pseudohermaphroditism, not elsewhere classified |
| Q56.4Indeterminate sex, unspecifiedQ60.2Renal agenesis, unspecifiedQ60.4Renal hypoplasia, bilateralQ60.5Renal hypoplasia, unspecifiedQ61.0Congenital single renal cystQ61.1Polycystic kidney, autosomal recessiveQ61.2Polycystic kidney, autosomal dominant | Q56.2 | Female pseudohermaphroditism, not elsewhere classified |
| Q60.2Renal agenesis, unspecifiedQ60.4Renal hypoplasia, bilateralQ60.5Renal hypoplasia, unspecifiedQ61.0Congenital single renal cystQ61.1Polycystic kidney, autosomal recessiveQ61.2Polycystic kidney, autosomal dominant | Q56.3 | Pseudohermaphroditism, unspecified |
| Q60.4Renal hypoplasia, bilateralQ60.5Renal hypoplasia, unspecifiedQ61.0Congenital single renal cystQ61.1Polycystic kidney, autosomal recessiveQ61.2Polycystic kidney, autosomal dominant | Q56.4 | Indeterminate sex, unspecified |
| Q60.5Renal hypoplasia, unspecifiedQ61.0Congenital single renal cystQ61.1Polycystic kidney, autosomal recessiveQ61.2Polycystic kidney, autosomal dominant | Q60.2 | Renal agenesis, unspecified |
| Q61.0 Congenital single renal cyst Q61.1 Polycystic kidney, autosomal recessive Q61.2 Polycystic kidney, autosomal dominant | Q60.4 | Renal hypoplasia, bilateral |
| Q61.1 Polycystic kidney, autosomal recessive Q61.2 Polycystic kidney, autosomal dominant | Q60.5 | Renal hypoplasia, unspecified |
| Q61.2 Polycystic kidney, autosomal dominant | Q61.0 | Congenital single renal cyst |
| | Q61.1 | Polycystic kidney, autosomal recessive |
| Q61.3 Polycystic kidney, unspecified | Q61.2 | Polycystic kidney, autosomal dominant |
| | Q61.3 | Polycystic kidney, unspecified |

| ICD-10 Code | Description | | |
|-------------|---|--|--|
| Q61.5 | Medullary cystic kidney | | |
| Q61.8 | Other cystic kidney diseases | | |
| Q62.0 | Congenital hydronephrosis | | |
| Q62.1 | Atresia and stenosis of ureter | | |
| Q62.3 | Other obstructive defects of renal pelvis and ureter | | |
| Q62.4 | Agenesis of ureter | | |
| Q62.5 | Duplication of ureter | | |
| Q62.6 | Malposition of ureter | | |
| Q62.8 | Other congenital malformations of ureter | | |
| Q63.0 | Accessory kidney | | |
| Q63.1 | Lobulated, fused and horseshoe kidney | | |
| Q63.2 | Ectopic kidney | | |
| Q63.8 | Other specified congenital malformations of kidney | | |
| Q63.9 | Congenital malformation of kidney, unspecified | | |
| Q64.0 | Epispadias | | |
| Q64.1 | Exstrophy of urinary bladder | | |
| Q64.3 | Other atresia and stenosis of urethra and bladder neck | | |
| Q64.4 | Malformation of urachus | | |
| Q64.5 | Congenital absence of bladder and urethra | | |
| Q64.6 | Congenital diverticulum of bladder | | |
| Q64.7 | Other congenital malformations of bladder and urethra | | |
| Q64.8 | Other specified congenital malformations of urinary system | | |
| Q64.9 | Congenital malformation of urinary system, unspecified | | |
| Q65.0 | Congenital dislocation of hip, unilateral | | |
| Q65.1 | Congenital dislocation of hip, bilateral | | |
| Q65.2 | Congenital dislocation of hip, unspecified | | |
| Q65.8 | Other congenital deformities of hip | | |
| Q65.9 | Congenital deformity of hip, unspecified | | |
| Q67.5 | Congenital deformity of spine | | |
| Q68.2 | Congenital deformity of knee | | |
| Q71.0 | Congenital complete absence of upper limb(s) | | |
| Q71.1 | Congenital absence of upper arm and forearm with hand present | | |
| Q71.2 | Congenital absence of both forearm and hand | | |
| Q71.3 | Congenital absence of hand and finger(s) | | |
| Q71.4 | Longitudinal reduction defect of radius | | |
| Q71.5 | Longitudinal reduction defect of ulna | | |
| Q71.6 | Lobster-claw hand | | |
| Q71.8 | Other reduction defects of upper limb(s) | | |
| Q71.9 | Reduction defect of upper limb, unspecified | | |
| Q72.0 | Congenital complete absence of lower limb(s) | | |
| Q72.1 | Congenital absence of thigh and lower leg with foot present | | |
| Q72.2 | Congenital absence of both lower leg and foot | | |
| Q72.3 | Congenital absence of foot and toe(s) | | |
| Q72.4 | Longitudinal reduction defect of femur | | |
| Q72.5 | Longitudinal reduction defect of tibia | | |
| Q72.6 | Longitudinal reduction defect of fibula | | |
| Q72.7 | Split foot | | |

| ICD-10 Code | Description | | |
|-------------|--|--|--|
| Q72.8 | Other reduction defects of lower limb(s) | | |
| Q72.9 | Reduction defect of lower limb, unspecified | | |
| Q73.0 | Congenital absence of unspecified limb(s) | | |
| Q73.1 | Phocomelia, unspecified limb(s) | | |
| Q73.8 | Other reduction defects of unspecified limb(s) | | |
| Q74.0 | Other congenital malformations of upper limb(s), including shoulder girdle | | |
| Q74.1 | Congenital malformation of knee | | |
| Q74.2 | Other congenital malformations of lower limb(s), including pelvic girdle | | |
| Q74.8 | Other specified congenital malformations of limb(s) | | |
| Q74.9 | Unspecified congenital malformation of limb(s) | | |
| Q75.1 | Craniofacial dysostosis | | |
| Q75.3 | Macrocephaly | | |
| Q75.4 | Mandibulofacial dysostosis | | |
| Q75.5 | Oculomandibular dysostosis | | |
| Q75.8 | Other specified congenital malformations of skull and face bones | | |
| Q75.9 | Congenital malformation of skull and face bones, unspecified | | |
| Q76.1 | Klippel-Feil syndrome | | |
| Q76.2 | Congenital spondylolisthesis | | |
| Q76.3 | Congenital scoliosis due to congenital bony malformation | | |
| Q76.4 | Other congenital malformations of spine, not associated with scoliosis | | |
| Q77.0 | Achondrogenesis | | |
| Q77.1 | Thanatophoric short stature | | |
| Q77.5 | Dystrophic dysplasia | | |
| Q77.6 | Chondroectodermal dysplasia | | |
| Q77.7 | Spondyloepiphyseal dysplasia | | |
| Q77.8 | Other osteochondrodysplasia with defects of growth of tubular bones and spine | | |
| Q77.9 | Osteochondrodysplasia with defects of growth of tubular bones and spine, unspecified | | |
| Q78.0 | Osteogenesis imperfecta | | |
| Q78.1 | Polyostotic fibrous dysplasia | | |
| Q78.2 | Osteopetrosis | | |
| Q78.3 | Progressive diaphyseal dysplasia | | |
| Q78.4 | Enchondromatosis | | |
| Q78.6 | Multiple congenital exostoses | | |
| Q78.8 | Other specified osteochondrodysplasias | | |
| Q79.0 | Congenital diaphragmatic hernia | | |
| Q79.4 | Prune belly syndrome | | |
| Q79.5 | Other congenital malformations of abdominal wall | | |
| Q79.6 | Ehlers-Danlos syndrome | | |
| Q79.8 | Other congenital malformations of musculoskeletal system | | |
| Q80.0 | Ichthyosis vulgaris | | |
| Q80.1 | X-linked ichthyosis | | |
| Q80.2 | Lamellar ichthyosis | | |
| Q80.3 | Congenital bullous ichthyosiform erythroderma | | |
| Q80.8 | Other congenital ichthyosis | | |
| Q80.9 | Congenital ichthyosis, unspecified | | |
| Q82.0 | Hereditary lymphoedema | | |
| 200 | | | |

| ICD-10 Code | Description | | |
|-------------|---|--|--|
| Q82.2 | Mastocytosis | | |
| Q82.3 | Incontinentia pigmenti | | |
| Q82.9 | Congenital malformation of skin, unspecified | | |
| Q85.0 | Neurofibromatosis (nonmalignant) | | |
| Q85.9 | Phakomatosis, unspecified | | |
| Q86.1 | Fetal hydantoin syndrome | | |
| Q86.2 | Dysmorphism due to warfarin | | |
| Q86.8 | Other congenital malformation syndromes due to known exogenous causes | | |
| Q87.3 | Congenital malformation syndromes involving early overgrowth | | |
| Q87.4 | Marfan syndrome | | |
| Q87.5 | Other congenital malformation syndromes with other skeletal changes | | |
| Q89.1 | Congenital malformations of adrenal gland | | |
| Q89.2 | Congenital malformations of other endocrine glands | | |
| Q89.3 | Situs inversus | | |
| Q89.4 | Conjoined twins | | |
| Q89.7 | Multiple congenital malformations, not elsewhere classified | | |
| Q89.8 | Other specified congenital malformations | | |
| Q89.9 | Congenital malformation, unspecified | | |
| Q90.0 | Trisomy 21, meiotic nondisjunction | | |
| Q90.1 | Trisomy 21, mosaicism (mitotic nondisjunction) | | |
| Q90.2 | Trisomy 21, translocation | | |
| Q90.9 | Down syndrome, unspecified | | |
| Q92.2 | Major partial trisomy | | |
| Q92.3 | Minor partial trisomy | | |
| Q92.5 | Duplications with other complex rearrangements | | |
| Q92.6 | Extra marker chromosomes | | |
| Q92.9 | Trisomy and partial trisomy of autosomes, unspecified | | |
| Q93.0 | Whole chromosome monosomy, meiotic nondisjunction | | |
| Q93.1 | Whole chromosome monosomy, mosaicism (mitotic nondisjunction) | | |
| Q93.6 | Deletions seen only at prometaphase | | |
| Q93.7 | Deletions with other complex rearrangements | | |
| Q93.9 | Deletion from autosomes, unspecified | | |
| Q97.0 | Karyotype 47,XXX | | |
| Q97.1 | Female with more than three X chromosomes | | |
| Q97.2 | Mosaicism, lines with various numbers of X chromosomes | | |
| Q97.3 | Female with 46,XY karyotype | | |
| Q97.8 | Other specified sex chromosome abnormalities, female phenotype | | |
| Q97.9 | Sex chromosome abnormality, female phenotype, unspecified | | |
| Q98.0 | Klinefelter syndrome karyotype 47,XXY | | |
| Q99.0 | Chimera 46,XX/46,XY | | |
| Q99.1 | 46,XX true hermaphrodite | | |
| Q99.2 | Fragile X chromosome | | |
| Q99.8 | Other specified chromosome abnormalities | | |
| Q99.9 | Chromosomal abnormality, unspecified | | |

<u>Anxiety – Diagnostic Read Codes</u>

| Medcode | Read Code | Description | |
|----------------|--------------------|--|--|
| 636 | E200.00 | Anxiety states | |
| 6939 | E200000 | Anxiety state unspecified | |
| 4069 | E200100 | Panic disorder | |
| 462 | E200111 | Panic attack | |
| 4659 | E200200 | Generalised anxiety disorder | |
| 1758 | E200400 | Chronic anxiety | |
| 4534 | E200z00 | Anxiety state NOS | |
| 1907 | E202.00 | Phobic disorders | |
| 16638 | E202.11 | Social phobic disorders | |
| 9944 | E202.12 | Phobic anxiety | |
| 2300 | E202000 | Phobia unspecified | |
| 3076 | E202100 | Agoraphobia with panic attacks | |
| 12838 | E202200 | Agoraphobia without mention of panic attacks | |
| 16199 | E202300 | Social phobia, fear of eating in public | |
| 31957 | E202400 | Social phobia, fear of public speaking | |
| 18603 | E202500 | Social phobia, fear of public washing | |
| 14729 | E202z00 | Phobic disorder NOS | |
| 1582 | E205.11 | Nervous exhaustion | |
| 791 | E20z.11 | Nervous breakdown | |
| 11940 | E280.00 | Acute panic state due to acute stress reaction | |
| 6221 | E292000 | Separation anxiety disorder | |
| 56924 | E292400 | Adjustment reaction with anxious mood | |
| 31522 | E2D0.00 | Disturbance of anxiety and fearfulness childhood/adolescent | |
| 35619 | E2D0000 | Childhood and adolescent overanxiousness disturbance | |
| 56026 | E2D0100 | Childhood and adolescent fearfulness disturbance | |
| 35594 | E2D0200 | Disturbance anxiety and fearfulness childhood/adolescent NOS | |
| 9386 | Eu40.00 | [X]Phobic anxiety disorders | |
| 2571 | Eu40000 | [X]Agoraphobia | |
| 16729 | Eu40000 | [X]Agoraphobia without history of panic disorder | |
| 14890 | Eu40011 | [X]Panic disorder with agoraphobia | |
| 11602 | Eu40100 | [X]Social phobias | |
| 27685 | Eu40y00 | [X]Other phobic anxiety disorders | |
| 34064 | Eu40z00 | [X]Phobic anxiety disorder, unspecified | |
| 5385 | Eu40200 | [X]Other anxiety disorders | |
| 8205 | Eu41000 | [X]Panic disorder [episodic paroxysmal anxiety] | |
| 6408 | Eu41000 | [X]Panic attack | |
| 4081 | Eu41011 | [X]Panic state | |
| 10344 | Eu41012 Eu41100 | [X]Generalized anxiety disorder | |
| 962 | Eu41100 | [X]Anxiety neurosis | |
| 35825 | Eu41112 | [X]Anxiety reaction | |
| 50191 | Eu41112 | [X]Anxiety state | |
| 24066 | Eu41110 | [X]Other specified anxiety disorders | |
| 24000 | Eu41y00 Eu41y11 | [X]Anxiety hysteria | |
| 23838 | Eu41y11 Eu41z00 | [X]Anxiety disorder, unspecified | |
| 25638 | Eu41200 Eu41z11 | [X]Anxiety NOS | |
| 66806 | Eu41211 Eu45215 | [X]Nosophobia | |
| 17687 | Eu45215 Eu51511 | [X]Dream anxiety disorder | |
| 18032 | Eu51511 Eu93000 | [X]Separation anxiety disorder of childhood | |
| 24351 | Eu93000 Eu93100 | [X]Phobic anxiety disorder of childhood | |
| | | [X]Social anxiety disorder of childhood | |
| 29907 61430 | Eu93200 | [X]Childhood overanxious disorder | |
| 400 | Eu93y12 | | |

| Medcode | Read Code | Description |
|---------|-----------|--|
| 42788 | Eu40112 | [X]Social neurosis |
| 108107 | 8CAZ000 | Patient given advice about management of anxiety |
| 63521 | 8G52.00 | Antiphobic therapy |
| 9125 | 8G94.00 | Anxiety management training |
| 28925 | 8HHp.00 | Referral for guided self-help for anxiety |
| 25749 | Z481.00 | Phobia counselling |
| 22159 | Z4I7.00 | Acknowledging anxiety |
| 62935 | Z4I7100 | Recognising anxiety |
| 28381 | Z4I7200 | Alleviating anxiety |
| 26295 | Z4I7211 | Reducing anxiety |
| 7999 | Z4L1.00 | Anxiety counselling |
| 4634 | E200500 | Recurrent anxiety |

Anxiety - Symptom Read Codes

| Medcode | Read Code | Description |
|---------|-----------|------------------------------|
| 4127 | 13JK.00 | Business worries |
| 2291 | 13JK.14 | Work worries |
| 40578 | 13JM.14 | Work worries |
| 107410 | 173f.00 | Anxiety about breathlessness |
| 29608 | 1B12.00 | 'Nerves' - nervousness |
| 3586 | 1B12.11 | 'Nerves' |
| 514 | 1B12.12 | Tension - nervous |
| 131 | 1B13.00 | Anxiousness |
| 5902 | 1B13.11 | Anxiousness - symptom |
| 93401 | 1B13.12 | Anxious |
| 29569 | 1B14.00 | Tenseness |
| 2585 | 1B14.11 | Tenseness - symptom |
| 5347 | 1B1H.11 | Fear |
| 11890 | 1B1V.00 | C/O - panic attack |
| 18672 | 1Bb00 | Specific fear |
| 22683 | 1Bb0.00 | Fear of falling |
| 18967 | 1Bb1.00 | Fear of getting cancer |
| 109887 | 1M61.00 | Fearful with pain |
| 13124 | 2258 | O/E - anxious |
| 8725 | 2259 | O/E - nervous |
| 19000 | 225J.00 | O/E - panic attack |
| 26331 | 225K.00 | O/E - fearful mood |
| 2509 | R2y2.00 | [D]Nervousness |
| 17853 | R2y2.11 | [D]Nerves |
| 10723 | R2y2.12 | [D]Nervous tension |
| 7899 | 2253 | O/E - distressed |
| 101422 | 16ZB100 | Feeling low or worried |
| 2524 | 1BK00 | Worried |

Anxiety - Screening Tool Read Codes

| Medcode | Read Code | Description | |
|---------|-----------|--|--|
| 19163 | 388b.00 | Depression anxiety stress scales anxiety score | |
| 19631 | 388N.00 | HAD scale: anxiety score | |
| 94196 | 388w.00 | Generalised anxiety disorder 7 item score | |
| 100992 | 38Du.00 | Improving Access to Psychological Therapies pro phobia scale | |
| 101323 | 38Du000 | IAPT phobia scale - Soc sit due fear embarrass mak fool self | |
| 102106 | 38Du100 | IAPT phobia scale - Cert situ fear panic attak distres symp | |
| 102133 | 38Du200 | IAPT phobia scale - Cert situ becse fear particulr obj activ | |
| 105292 | 38GQ.00 | Short health anxiety inventory | |
| 108416 | 38QN.00 | Generalised anxiety disorder 2 scale | |
| 26079 | ZR29.00 | Beck anxiety inventory | |
| 40739 | ZR2C.00 | Beck anxiety standardised rating scale | |
| 52243 | ZR3U.00 | Clinical anxiety scale | |
| 110355 | ZRkb.00 | Speilberger state-trait anxiety inventory | |
| 64519 | ZRkb.11 | STAI - Speilberger state-trait anxiety inventory | |
| 95547 | ZRrd.00 | Zung's anxiety status inventory | |
| 72649 | ZRre.00 | Zung's self-rating anxiety scale | |
| 56445 | ZRre.11 | SASZ - Zung's self-rating anxiety scal | |
| 112968 | ZRrd.11 | ASI - Zung's anxiety status inventory | |
| 94671 | 388w.11 | GAD-7 score | |
| 108194 | 6897 | Anxiety screening | |
| 19630 | 388J.00 | Hospital anxiety and depression scale | |
| 108928 | 38GJ000 | EuroQol five dimension five level anxiety depression score | |
| 52655 | ZR700 | Depression anxiety scale | |
| 19245 | ZRLr.00 | Hospital anxiety and depression scale | |
| 35398 | ZRLr.11 | HAD - Hospital anxiety and depression scale | |
| 24820 | ZRLr.12 | HADS - Hospital anxiety and depression scale | |
| 56034 | ZRVM.00 | Leeds scale for the self-assessment of anxiety & depression | |
| 108245 | 6897000 | Anxiety screening using questions | |

Anxiety – ICD-10 Codes

| ICD-10 Code | Description | |
|-------------|--|--|
| F40 | Phobic anxiety disorders | |
| F40.0 | Agoraphobia | |
| F40.1 | Social phobias | |
| F40.8 | Other phobic anxiety disorders | |
| F40.9 | Phobic anxiety disorder, unspecified | |
| F41 | Other anxiety disorders | |
| F41.0 | Panic disorder [episodic paroxysmal anxiety] | |
| F41.1 | Generalized anxiety disorder | |
| F41.8 | Other specified anxiety disorders | |
| F41.9 | Anxiety disorder, unspecified | |

Depression - Diagnostic Read Codes

| Medcode | Read Code | Description |
|---------|-----------|--|
| 44848 | 8BK0.00 | Depression management programme |
| 30483 | 8CAa.00 | Patient given advice about management of depression |
| 32841 | 8HHq.00 | Referral for guided self-help for depression |
| 12399 | 9H90.00 | Depression annual review |
| 12122 | 9H91.00 | Depression medication review |
| 30405 | 9H92.00 | Depression interim review |
| 42931 | 9HA0.00 | On depression register |
| 30583 | 9k400 | Depression - enhanced services administration |
| 65435 | 9k40.00 | Depression - enhanced service completed |
| 96995 | 9kQ00 | On full dose long term treatment depression - enh serv admin |
| 51258 | 90v00 | Depression monitoring administration |
| 71009 | 90v0.00 | Depression monitoring first letter |
| 72966 | 90v1.00 | Depression monitoring second letter |
| 91105 | 90v2.00 | Depression monitoring third letter |
| 88644 | 90v3.00 | Depression monitoring verbal invite |
| 85852 | 90v4.00 | Depression monitoring telephone invite |
| 2560 | E1112 | Depressive psychoses |
| 10610 | E112.00 | Single major depressive episode |
| 5879 | E112.11 | Agitated depression |
| 6546 | E112.12 | Endogenous depression first episode |
| 6950 | E112.13 | Endogenous depression first episode |
| 595 | E112.14 | Endogenous depression |
| 34390 | E112000 | Single major depressive episode, unspecified |
| 16506 | E112100 | Single major depressive episode, mild |
| 15155 | E112200 | Single major depressive episode, moderate |
| 15219 | E112300 | Single major depressive episode, severe, without psychosis |
| 32159 | E112400 | Single major depressive episode, severe, with psychosis |
| 7011 | E112z00 | Single major depressive episode NOS |
| 15099 | E113.00 | Recurrent major depressive episode |
| 6932 | E113.11 | Endogenous depression - recurrent |
| 35671 | E113000 | Recurrent major depressive episodes, unspecified |
| 29342 | E113100 | Recurrent major depressive episodes, mild |
| 14709 | E113200 | Recurrent major depressive episodes, moderate |
| 25697 | E113300 | Recurrent major depressive episodes, severe, no psychosis |
| 24171 | E113400 | Recurrent major depressive episodes, severe, with psychosis |
| 6482 | E113700 | Recurrent depression |
| 25563 | E113z00 | Recurrent major depressive episode NOS |
| 10825 | E118.00 | Seasonal affective disorder |
| 27491 | E11y200 | Atypical depressive disorder |
| 54607 | E11z0 | Unspecified affective psychoses |
| 3489 | E11z100 | Rebound mood swings |
| 9183 | E11z200 | Masked depression |
| 33425 | E11zz | Other affective psychosis NOS |
| 8478 | E130.00 | Reactive depressive psychosis |
| 17770 | E130.11 | Psychotic reactive depression |
| 1055 | E135.00 | Agitated depression |
| 1131 | E204.00 | Neurotic depression reactive type |
| 1533 | E290.00 | Brief depressive reaction |
| 36246 | E290z00 | Brief depressive reaction NOS |
| 16632 | E291.00 | Prolonged depressive reaction |
| 324 | E2B00 | Depressive disorder NEC |
| 2972 | E2B0.00 | Postviral depression |
| 4323 | E2B1.00 | Chronic depression |

| 1726 Eu3.00 [X]Nogaressive episode 4639 Eu32.00 [X]Single episode of psychogenic depressive reaction 18510 Eu32.11 [X]Single episode of psychogenic depression 7604 Eu32.13 [X]Single episode of psychogenic depression 9211 Eu32.100 [X]Mild depressive episode 9667 Eu32200 [X]Swere depressive episode 9667 Eu32211 [X]Single episode agitated depression wout psychotic symptoms 12989 Eu32211 [X]Single episode agitated depression wout psychotic symptoms 22806 Eu32213 [X]Single episode of major depression wout psychotic symptoms 12099 Eu32300 [X]Single episode of psychotic depression 24117 Eu32311 [X]Single episode of psychotic depression 24112 Eu32312 [X]Single episode of psychotic depression 24863 Eu32400 [X]Major depression, mild 98426 Eu32400 [X]Major depression, moderately severe 98417 Eu32800 [X]Major depression, severe with psychotic symptoms 98417 Eu32400 [X]Major depression 6854 | Medcode | Read Code | Description |
|--|---------|-----------|--|
| 4639 Eu32.00 [X]Depressive episode 9055 Eu32.11 [X]Single episode of depressive reaction 18510 Eu32.12 [X]Single episode of reactive depression 11717 Eu32000 [X]Mild depressive episode 9667 Eu32200 [X]Moderate depressive episode 9667 Eu32210 [X]Single episode of reactive depressive system out psychotic symptoms 22806 Eu32211 [X]Single episode of major depression wout psychotic symptoms 22806 Eu32212 [X]Single episode of major depression and psychotic symptoms 24117 Eu32311 [X]Single episode of factive depressive psychosis 24117 Eu32312 [X]Single episode of factive depressive psychosis 24112 Eu32313 [X]Single episode of factive depressive psychosis 24112 Eu32314 [X]Single episode of reactive depressive psychosis 10667 Eu32400 [X]Major depression, moderately severe 98346 Eu32500 [X]Major depression, severe with psychotic symptoms 98417 Eu32400 [X]Major depression on 56609 Eu32410 [X]Major depression on | | | - |
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| 28248Eu32z13[X]Prolonged single episode of reactive depression5987Eu32z14[X] Reactive depression NOS3292Eu33.00[X]Recurrent depressive disorder8851Eu33.11[X]Recurrent episodes of depressive reaction19696Eu33.12[X]Recurrent episodes of reactive depression8902Eu33.13[X]Recurrent episodes of reactive depression28756Eu33.14[X]Seasonal depressive disorder2876Eu33.15[X]SAD - Seasonal affective disorder29784Eu33000[X]Recurrent depressive disorder, current episode moderate11329Eu33100[X]Recurrent depression without psychotic symptoms11252Eu3211[X]Endogenous depression, recurrent without psychotic symptoms23731Eu3214[X]Vital depression, recurrent without psychotic symptoms32941Eu3313[X]Recurrent severe episodes/psychogenic depressive psychosis16861Eu3315[X]Recurrent severe episodes/psychogenic depression37764Eu3316[X]Recurrent depressive disorders44300Eu3220[X]Recurrent depressive disorders44300Eu3211[X]Monopolar depression NOS42857Eu3400[X]Cyclothymia3584Eu3400[X]Cyclothymia8584Eu34101[X]Depressive neurosis10290Eu34112[X]Depressive personality disorder7737Eu34113[X]Depressive personality disorder | | | |
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| 8851Eu33.11[X]Recurrent episodes of depressive reaction19696Eu33.12[X]Recurrent episodes of psychogenic depression8902Eu33.13[X]Recurrent episodes of reactive depression28756Eu33.14[X]Seasonal depressive disorder8826Eu33.15[X]SAD - Seasonal affective disorder29784Eu33000[X]Recurrent depressive disorder, current episode mild29520Eu33100[X]Recurrent depressive disorder, current episode moderate11329Eu3211[X]Endogenous depression without psychotic symptoms11252Eu3212[X]Major depression, recurrent without psychotic symptoms23731Eu3311[X]Endogenous depression with psychotic symptoms32941Eu3311[X]Recurr severe episodes/major depression +psychotic symptoms31757Eu3315[X]Recurrent severe episodes of psychogenic depression37764Eu3316[X]Recurrent depressive disorder,44300Eu3210[X]Recurrent depressive disorder,44300Eu3211[X]Monopolar depression NOS42857Eu34.00[X]Persistent mood affective disorders21540Eu34000[X]Cyclothymia7953Eu34100[X]Depressive neurosis10290Eu34112[X]Depressive personality disorder7377Eu34113[X]Neurotic depression | | - | |
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| 29520Eu33100[X]Recurrent depressive disorder, current episode moderate11329Eu33211[X]Endogenous depression without psychotic symptoms11252Eu33212[X]Major depression, recurrent without psychotic symptoms73991Eu33214[X]Vital depression, recurrent without psychotic symptoms23731Eu33311[X]Endogenous depression with psychotic symptoms32941Eu33313[X]Recurr severe episodes/major depression+psychotic symptom31757Eu33314[X]Recurr severe episodes/psychogenic depressive psychosis16861Eu33315[X]Recurrent severe episodes of psychotic depression37764Eu33316[X]Recurrent severe episodes/reactive depressive psychosis44300Eu33200[X]Recurrent depressive disorders44300Eu33211[X]Monopolar depression NOS42857Eu3400[X]Persistent mood affective disorders21540Eu34000[X]Cyclothymia7953Eu34100[X]Depressive neurosis10290Eu34112[X]Depressive personality disorder7737Eu34113[X]Neurotic depression | | | |
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| 11252Eu33212[X]Major depression, recurrent without psychotic symptoms73991Eu33214[X]Vital depression, recurrent without psychotic symptoms23731Eu33311[X]Endogenous depression with psychotic symptoms32941Eu33313[X]Recurr severe episodes/major depression+psychotic symptom31757Eu33314[X]Recurr severe episodes/psychogenic depressive psychosis16861Eu33315[X]Recurrent severe episodes of psychotic depression37764Eu33316[X]Recurrent severe episodes/reactive depressive psychosis44300Eu33200[X]Other recurrent depressive disorders44300Eu33211[X]Monopolar depression NOS42857Eu34.00[X]Persistent mood affective disorders21540Eu34000[X]Cyclothymia7953Eu34100[X]Dysthymia8584Eu34111[X]Depressive personality disorder7737Eu34113[X]Neurotic depression | | | |
| 73991Eu33214[X]Vital depression, recurrent without psychotic symptoms23731Eu33311[X]Endogenous depression with psychotic symptoms32941Eu33313[X]Recurr severe episodes/major depression+psychotic symptom31757Eu33314[X]Recurr severe episodes/psychogenic depressive psychosis16861Eu33315[X]Recurrent severe episodes of psychotic depression37764Eu33316[X]Recurrent severe episodes/reactive depressive psychosis44300Eu33200[X]Other recurrent depressive disorders44300Eu33200[X]Recurrent depressive disorders44300Eu33200[X]Persistent mood affective disorders21540Eu34000[X]Cyclothymia7953Eu34100[X]Dysthymia8584Eu34111[X]Depressive personality disorder7737Eu34113[X]Neurotic depression | | | |
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| 16861Eu33315[X]Recurrent severe episodes of psychotic depression37764Eu33316[X]Recurrent severe episodes/reactive depressive psychosis47731Eu33y00[X]Other recurrent depressive disorders44300Eu33z00[X]Recurrent depressive disorder, unspecified36616Eu33z11[X]Monopolar depression NOS42857Eu34.00[X]Persistent mood affective disorders21540Eu34000[X]Cyclothymia7953Eu34100[X]Dysthymia8584Eu34111[X]Depressive neurosis10290Eu34112[X]Depressive personality disorder7737Eu34113[X]Neurotic depression | | | |
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| 47731Eu33y00[X]Other recurrent depressive disorders44300Eu33z00[X]Recurrent depressive disorder, unspecified36616Eu33z11[X]Monopolar depression NOS42857Eu34.00[X]Persistent mood affective disorders21540Eu34000[X]Cyclothymia7953Eu34100[X]Dysthymia8584Eu34111[X]Depressive neurosis10290Eu34112[X]Depressive personality disorder7737Eu34113[X]Neurotic depression | | | |
| 44300Eu33z00[X]Recurrent depressive disorder, unspecified36616Eu33z11[X]Monopolar depression NOS42857Eu34.00[X]Persistent mood affective disorders21540Eu34000[X]Cyclothymia7953Eu34100[X]Dysthymia8584Eu34111[X]Depressive neurosis10290Eu34112[X]Depressive personality disorder7737Eu34113[X]Neurotic depression | | | |
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| 8584Eu34111[X]Depressive neurosis10290Eu34112[X]Depressive personality disorder7737Eu34113[X]Neurotic depression | | Eu34000 | |
| 10290Eu34112[X]Depressive personality disorder7737Eu34113[X]Neurotic depression | 7953 | Eu34100 | [X]Dysthymia |
| 7737 Eu34113 [X]Neurotic depression | 8584 | Eu34111 | [X]Depressive neurosis |
| | 10290 | Eu34112 | [X]Depressive personality disorder |
| | 7737 | Eu34113 | [X]Neurotic depression |
| 50243 Eu34y00 [X]Other persistent mood affective disorders | 50243 | Eu34y00 | [X]Other persistent mood affective disorders |

| Medcode | Read Code | Description |
|---------|-----------|--|
| 39767 | Eu34z00 | [X]Persistent mood affective disorder, unspecified |
| 28008 | Eu3y.00 | [X]Other mood affective disorders |
| 50998 | Eu3y000 | [X]Other single mood affective disorders |
| 29921 | Eu3y100 | [X]Other recurrent mood affective disorders |
| 19054 | Eu3y111 | [X]Recurrent brief depressive episodes |
| 29579 | Eu3yy00 | [X]Other specified mood affective disorders |
| 37090 | Eu3z.00 | [X]Unspecified mood affective disorder |
| 32845 | Eu92000 | [X]Depressive conduct disorder |
| 29527 | R007z13 | [D]Postoperative depression |
| 41989 | Eu32211 | [X]Single episode agitated depressn w'out psychotic symptoms |
| 33469 | Eu33200 | [X]Recurr depress disorder cur epi severe without psyc sympt |

Depression - Symptom Read Codes

| Medcode | Read Code | Description |
|---------|-----------|---|
| 1996 | 1B17.00 | Depressed |
| 2930 | 1B17.12 | C/O - feeling unhappy |
| 4824 | 1B17.11 | C/O - feeling depressed |
| 6021 | 1BO00 | Mood swings |
| 8928 | 1BT11 | Low mood |
| 9796 | 1B1U.00 | Symptoms of depression |
| 10015 | 1BT00 | Depressed mood |
| 10438 | 1B1U.11 | Depressive symptoms |
| 12416 | 1S400 | Mood observations |
| 25435 | 1BQ00 | Loss of capacity for enjoyment |
| 26028 | 1BT12 | Sad mood |
| 30740 | 1BP00 | Loss of interest |
| 48349 | 1S40.00 | Dysphoric mood |
| 100977 | 1JJ00 | Suspected depression |
| 1908 | 2257 | O/E - depressed |
| 59869 | 1BP0.00 | Loss of interest in previously enjoyable activity |
| 21124 | 1BI00 | Blunted affect |
| 53148 | 1BU00 | Loss of hope for the future |

Depression – Screening Tool Read Codes

| Medcode | Read Code | Description | |
|---------|-----------|---|--|
| 4740 | 6891 | Depression screen | |
| 12450 | 6896 | Depression screening using questions | |
| 106647 | 3880100 | Visual analogue mood scale | |
| 103903 | 6891000 | Assessment using Whooley depression screen | |
| 13583 | 388f.00 | Patient health questionnaire (PHQ-9) score | |
| 26817 | 388g.00 | Beck depression inventory second edition score | |
| 19630 | 388J.00 | Hospital anxiety and depression scale | |
| 91400 | 3881.00 | BASDEC - Brief Assessment Schedule Depression Cards score | |
| 19409 | 388P.00 | HAD scale: depression score | |
| 9970 | 388Z.00 | Depression anxiety stress scales depression score | |
| 101250 | 38Dp.00 | HAMD - Hamilton rating scale for depression | |
| 109588 | 38Dp.11 | HRSD - Hamilton rating scale for depression | |
| 101423 | 38Dq.00 | MADRS - Montgomery-Asberg depression rating scale | |
| 108928 | 38GJ000 | EuroQol five dimension five level anxiety depression score | |
| 26224 | ZR2A.00 | Beck depression inventory | |
| 26080 | ZR2A.11 | BDI - Beck depression inventory | |
| 28442 | ZR2G.00 | Behaviour and mood disturbance scale | |
| 38058 | ZR2h.00 | Brief depression rating scale | |
| 113683 | ZR2h.11 | BDRS - Brief depression rating scale | |
| 64177 | ZR3L.00 | Child depression scale | |
| 95734 | ZR3L.11 | CDS - Child depression scale | |
| 60210 | ZR3L100 | Child depression scale, second research edition | |
| 52655 | ZR700 | Depression anxiety scale | |
| 54999 | ZR800 | Depression self rating scale | |
| 56130 | ZR811 | DSRS - Depression self rating scale | |
| 34275 | ZRaH.00 | Mood affective checklist | |
| 64584 | ZRaH.11 | MACL - Mood affective checklist | |
| 44287 | ZRby.00 | Profile of mood states | |
| 100194 | ZRby.11 | POMS - Profile of mood states | |
| 55288 | ZRLfH00 | Health of the Nation Outcome Scale item 7 - depressed mood | |
| 96038 | ZRLfI00 | Health of the Nation Outcome Scale item 7 - depressed mood | |
| 42975 | ZRLU.00 | Hamilton rating scale for depression | |
| 42836 | ZRLU.11 | HAMD - Hamilton rating scale for depression | |
| 44927 | ZRLU.12 | HRSD - Hamilton rating scale for depression | |
| 56982 | ZRrc.00 | Zung self-rating depression scale | |
| 37942 | ZRrc.11 | SDS - Zung self-rating depression scale | |
| 102465 | ZRrI.00 | Wakefield self-assessment depression inventory | |
| 89707 | ZRrY.00 | WHO depression scale | |
| 56034 | ZRVM.00 | Leeds scale for the self-assessment of anxiety & depression | |
| 4876 | ZV79000 | [V]Screening for depression | |
| 19245 | ZRLr.00 | Hospital anxiety and depression scale | |
| 35398 | ZRLr.11 | HAD - Hospital anxiety and depression scale | |
| 24820 | ZRLr.12 | HADS - Hospital anxiety and depression scale | |

Depression – ICD-10 Codes

| ICD-10 Code | Description | |
|-------------|---|--|
| F32 | Depressive episode | |
| F32.0 | Mild depressive episode | |
| F32.1 | Moderate depressive episode | |
| F32.2 | Severe depressive episode without psychotic symptoms | |
| F32.3 | Severe depressive episode with psychotic symptoms | |
| F32.8 | Other depressive episodes | |
| F32.9 | Depressive episode, unspecified | |
| F33 | Recurrent depressive disorder | |
| F33.0 | Recurrent depressive disorder, current episode mild | |
| F33.1 | Recurrent depressive disorder, current episode moderate | |
| | Recurrent depressive disorder, current episode severe without psychotic | |
| F33.2 | symptoms | |
| | Recurrent depressive disorder, current episode severe with psychotic | |
| F33.3 | symptoms | |
| F33.8 | Other recurrent depressive disorders | |
| F33.9 | Recurrent depressive disorder, unspecified | |
| F34 | Persistent mood [affective] disorders | |
| F34.0 | Cyclothymia | |
| F34.1 | Dysthymia | |
| F34.8 | Other persistent mood [affective] disorders | |
| F34.9 | Persistent mood [affective] disorder, unspecified | |
| F38 | Other mood [affective] disorders | |
| F38.0 | Other single mood [affective] disorders | |
| F38.8 | Other specifiied mood [affective] disorders | |
| F39 | Unspecified mood [affective] disorder | |

| Medcode | Read Code | Description | | |
|----------------|--------------------|---|--|--|
| 2557 | TK05.00 | Suicide + selfinflicted poisoning by drug or medicine NOS | | |
| 3246 | TK15 | Attempted suicide | | |
| 3406 | TK17 | Para-suicide | | |
| 3985 | U213 | [X]Suicide | | |
| 5616 | TK3y.00 | Suicide + selfinflicted inj oth mean hang/strangle/suffocate | | |
| 8229 | U215 | [X]Para-suicide | | |
| 13557 | TK30.00 | Suicide and selfinflicted injury by hanging | | |
| 14853 | TK00.00 | Suicide + selfinflicted poisoning by analgesic/antipyretic | | |
| 15177 | TK60.00 | Suicide and selfinflicted injury by cutting | | |
| 16485 | TK01.00 | Suicide + selfinflicted poisoning by barbiturates | | |
| 17378 | U214 | [X]Attempted suicide | | |
| 21027 | TK14 | Suicide and self harm | | |
| 21027 | TK00 | Suicide and selfinflicted injury | | |
| 22199 | TK04.00 | Suicide + selfinflicted poisoning by other drugs/medicines | | |
| 23080 | TK300 | Suicide + selfinflicted injury by hang/strangulate/suffocate | | |
| 23753 | TK700 | Suicide and selfinflicted injury by jumping from high place | | |
| 27470 | TK61.00 | Suicide and selfinflicted injury by stabbing | | |
| 27470 | TK03.00 | Suicide + selfinflicted poisoning tranquilliser/psychotropic | | |
| 28080 | TK03.00 | Suicide + selfinflicted poisoning by corrosive/caustic subst | | |
| 28080 | TK51.00 | Suicide and selfinflicted injury by shotgun | | |
| 30292 | TK000 | Suicide + selfinflicted poisoning by solid/liquid substances | | |
| 31854 | TK400 | Suicide and selfinflicted injury by drowning | | |
| 33596 | TK02.00 | Suicide + selfinflicted poisoning by oth sedatives/hypnotics | | |
| 35419 | | | | |
| 36084 | 1BD5.00 TKx2.00 | High suicide risk | | |
| 36255 | TK600 | Suicide and selfinflicted injury by scald | | |
| | TK500 | Suicide and selfinflicted injury by cutting and stabbing | | |
| 41241 42937 | TK71.00 | Suicide and selfinflicted injury NOS | | |
| 46456 | TKx1.00 | Suicide+selfinflicted injury-jump from oth manmade structure | | |
| 47501 | TKx00 | Suicide and selfinflicted injury by burns or fire | | |
| 47301 48871 | TK20.00 | Suicide and selfinflicted injury by other means | | |
| 49135 | TK1y.00 | Suicide + selfinflicted poisoning by motor veh exhaust gas | | |
| 51328 | TK19.00 | Suicide and selfinflicted poisoning by other utility gas Suicide and selfinflicted poisoning by other carbon monoxide | | |
| 51685 | TK31.00 | Suicide + selfinflicted injury by suffocation by plastic bag | | |
| 52458 | TK06.00 | Suicide + selfinflicted poisoning by agricultural chemical | | |
| 56137 | TK52.00 | Suicide and selfinflicted injury by hunting rifle | | |
| 58605 | TK7z.00 | Suicide+selfinflicted injury-jump from high place NOS | | |
| 60767 | TK3z.00 | Suicide + selfinflicted inj by hang/strangle/suffocate NOS | | |
| 61113 | TK72.00 | Suicide+selfinflicted injury-jump from natural sites | | |
| 61569 | TK72.00 | Suicide+selfinflicted injury-jump from residential premises | | |
| 61618 | TK200 | Suicide + selfinflicted poisoning by other gases and vapours | | |
| 59405 | TK200 | Suicide + selfinflicted injury-jumping before moving object | | |
| 64744 | TKx5.00 | Suicide + selfinflicted injury-jumping before moving object Suicide and selfinflicted injury by crashing motor vehicle | | |
| 65309 | TK54.00 | Suicide and selfinflicted injury by other firearm | | |
| 65448 | TK6z.00 | Suicide and selfinflicted injury by cutting and stabbing NOS | | |
| 66063 | TKxy.00 | Suicide and selfinflicted injury by other specified means | | |
| 66109 | TK01000 | Suicide and self inflicted injury by Amylobarbitone | | |
| 66621 | TK01000 | Suicide + selfinflicted poisoning by solid/liquid subst NOS | | |
| 66915 | TK500 | Suicide and selfinflicted injury by firearms and explosives | | |
| 69969 | TK10.00 | Suicide + selfinflicted poisoning by gas via pipeline | | |
| 70405 | TK10.00 | Suicide + selfinflicted poisoning by gases in domestic use | | |
| 70405 | TK100 | Suicide + selfinflicted injury-jump/lie before moving object | | |
| 70948 | TKx0.00 | Suicide and selfinflicted injury by electrocution | | |
| 11122 | 11.4.00 | שונותב מות לבווווווונובת ווושו א של בוברו סרמנוסוו | | |

| Medcode | Read Code | Description | |
|---------|-----------|--|--|
| 71375 | TK11.00 | Suicide + selfinflicted poisoning by liquified petrol gas | |
| 71843 | TKxz.00 | Suicide and selfinflicted injury by other means NOS | |
| 73628 | TK2z.00 | Suicide + selfinflicted poisoning by gases and vapours NOS | |
| 94412 | TK1z.00 | Suicide + selfinflicted poisoning by domestic gases NOS | |
| 94442 | TK01400 | Suicide and self inflicted injury by Phenobarbitone | |
| 96430 | TKx7.00 | Suicide and selfinflicted injury caustic subst, excl poison | |
| 98594 | TKx3.00 | Suicide and selfinflicted injury by extremes of cold | |
| 99566 | TK01100 | Suicide and self inflicted injury by Barbitone | |
| 101056 | TK5z.00 | Suicide and selfinflicted injury by firearms/explosives NOS | |
| 101906 | TKx6.00 | Suicide and selfinflicted injury by crashing of aircraft | |
| 104834 | TK2y.00 | Suicide + selfinflicted poisoning by other gases and vapours | |
| 106178 | TK01z00 | Suicide and self inflicted injury by barbiturates | |
| 106180 | TKx0z00 | Suicide + selfinflicted inj-jump/lie before moving obj NOS | |
| 108187 | TK53.00 | Suicide and selfinflicted injury by military firearms | |
| 5589 | 1BD4.00 | Suicide risk | |
| 37194 | 1BD6.00 | Moderate suicide risk | |
| 104485 | 1BDE.00 | Suicide risk increased from previous level | |
| 1712 | 1BD1.00 | Suicidal ideation | |
| 4067 | 1BD3.00 | Suicidal plans | |
| 9504 | 1B19.11 | Suicidal - symptom | |
| 15437 | 1B19.00 | Suicidal | |
| 71955 | 8G600 | Anti-suicide psychotherapy | |
| 71548 | 8G6Z.00 | Anti-suicide psychotherapy NOS | |
| 99832 | Z9K3.00 | Suicide prevention | |
| 104354 | 8G61.00 | Potential suicide care | |
| 110167 | 9j200 | Initiation of suicide risk management document | |

| ICD-10 Code | Description | | |
|-------------|--|--|--|
| X60 | Intentional self-poisoning by and exposure to nonopioid analgesics, antipyretics and | | |
| | antirheumatics | | |
| X61 | Intentional self-poisoning by and exposure to antiepileptic, sedative-hypnotic, | | |
| | antiparkinsonism and psychotropic drugs, not elsewhere classified | | |
| X62 | Intentional self-poisoning by and exposure to narcotics and psychodysleptics | | |
| | [hallucinogens], not elsewhere classified | | |
| X63 | Intentional self-poisoning by and exposure to other drugs acting on the autonomic | | |
| | nervous system | | |
| X64 | Intentional self-poisoning by and exposure to other and unspecified drugs, | | |
| | medicaments and biological substances | | |
| X65 | Intentional self-poisoning by and exposure to alcohol | | |
| X66 | Intentional self-poisoning by and exposure to organic solvents and halogenated | | |
| | hydrocarbons and their vapours | | |
| X67 | Intentional self-poisoning by and exposure to carbon monoxide and other gases and | | |
| | vapours | | |
| X67.0 | Intentional self-poisoning by and exposure to carbon monoxide from combustion | | |
| | engine exhaust | | |
| X67.1 | Intentional self-poisoning by and exposure to carbon monoxide from utility gas | | |
| X67.2 | Intentional self-poisoning by and exposure to carbon monoxide from other domestic | | |
| | fuels | | |
| X67.3 | Intentional self-poisoning by and exposure to carbon monoxide from other sources | | |
| X67.4 | Intentional self-poisoning by and exposure to carbon monoxide from unspecified | | |
| | sources | | |
| X67.8 | Intentional self-poisoning by and exposure to other specified gases and vapours | | |
| X67.9 | Intentional self-poisoning by and exposure to unspecified gases and vapours | | |
| X68 | Intentional self-poisoning by and exposure to pesticides | | |
| X69 | Intentional self-poisoning by and exposure to other and unspecified chemicals and | | |
| | noxious substances | | |
| X70 | Intentional self-harm by hanging, strangulation and suffocation | | |
| X71 | Intentional self-harm by drowning and submersion | | |
| X72 | Intentional self-harm by handgun discharge | | |
| X73 | Intentional self-harm by rifle, shotgun and larger firearm discharge | | |
| X74 | Intentional self-harm by other and unspecified firearm discharge | | |
| X75 | Intentional self-harm by explosive material | | |
| X76 | Intentional self-harm by smoke, fire and flames | | |
| X77 | Intentional self-harm by steam, hot vapours and hot objects | | |
| X78 | Intentional self-harm by sharp object | | |
| X79 | Intentional self-harm by blunt object | | |
| X80 | Intentional self-harm by jumping from a high place | | |
| X81 | Intentional self-harm by jumping or lying before moving object | | |
| X82 | Intentional self-harm by crashing of motor vehicle | | |
| X83 | Intentional self-harm by other specified means | | |
| X84 | Intentional self-harm by unspecified means | | |

<u>Co-morbid Anxiety & Depression – Diagnostic Read Codes</u>

| Medcode | Read Code | Description |
|---------|-----------|---|
| 655 | E200300 | Anxiety with depression |
| 15220 | Eu34114 | [X] Persistent anxiety depression |
| 7749 | Eu41211 | [X] Mild anxiety depression |
| 11913 | Eu41200 | [X] Mixed anxiety and depressive disorder |

<u>Co-morbid Anxiety & Depression – ICD-10 Codes</u>

| ICD-10 Code | Description |
|-------------|---------------------------------------|
| F41.2 | Mixed anxiety and depressive disorder |

HES OP Mental Health Codes

| HES OP Treatment Specification | Description | |
|-----------------------------------|---|--|
| 711 | Child and Adolescent Psychiatry | |
| 713 | Psychotherapy | |
| 722 | Liaison Psychiatry | |
| 725 | Mental Health Recovery and Rehabilitation Service | |
| 726 | Mental Health Dual Diagnosis Service | |

HES A&E Mental Health Codes

| HES A&E Mental Health Code | Description |
|-------------------------------|------------------------|
| 35 | Psychiatric conditions |

Appendix 8 – Lists of Indications For Antidepressants, Anxiolytics & Hypnotics

Antidepressants

| Drug | Indications from NICE Child BNF Guidelines | Indications from NICE Adult BNF Guidelines |
|---------------|---|---|
| Amitriptyline | - neuropathic pain | major depressive disorder abdominal pain/discomfort neuropathic pain migraine prophylaxis chronic tension-type headache prophylaxis emotional lability in multiple sclerosis |
| Citalopram | - major depression | depressive illness panic disorder |
| Clomipramine | NR | depressive illness phobic and obsessional states narcolepsy-associated cataplexy |
| Dosulepin | NR | - depressive illness |
| Duloxetine | NR | depressive illness generalised anxiety disorder diabetic neuropathy stress urinary incontinence |
| Escitalopram | NR | depressive illness generalised anxiety disorder panic disorder social anxiety disorder obsessive-compulsive disorder (OCD) |
| Fluoxetine | - major depression | major depression obsessive-compulsive disorder (OCD) bulimia nervosa menopausal symptoms (breast cancer) |
| Flupentixol | NR | depressive illness schizophrenia/other psychoses |
| Fluvoxamine | - obsessive-compulsive disorder (OCD) | depressive illness obsessive-compulsive disorder (OCD) |
| Imipramine | attention deficit hyperactivity disorder (ADHD) nocturnal enuresis | depressive illness nocturnal enuresis |
| Lofepramine | NR | - depressive illness |
| Mirtazapine | NR | - major depression |
| Nortriptyline | - depressive illness | depressive illness neuropathic pain |
| Paroxetine | NR | major depression social anxiety disorder post-traumatic stress disorder (PTSD) generalised anxiety disorder obsessive-compulsive disorder (OCD) panic disorder |
| Pregabalin | NR | generalised anxiety disorder neuropathic pain focal seizures |
| Sertraline | major depression obsessive-compulsive disorder (OCD) | depressive illness obsessive-compulsive disorder (OCD) panic disorder post-traumatic stress disorder (PTSD) social anxiety disorder |

| Drug | Indications from NICE Child BNF Guidelines | Indications from NICE Adult BNF Guidelines |
|-------------|---|--|
| Venlafaxine | NR | major depression generalised anxiety disorder social anxiety disorder panic disorder menopausal symptoms (breast cancer) |

NR: not reported

Anxiolytics

| Drug | Indications from NICE Child BNF Guidelines | Indications from NICE Adult BNF Guidelines |
|-------------|--|---|
| Buspirone | NR | - anxiety (short-term use) |
| Clobazam | epilepsy cluster seizures | anxiety (short-term use) epilepsy anxiety/severe acute anxiety |
| Diazapam | tetanus muscle spasm status epilepticus febrile convulsions convulsions due to poisoning life-threatening acute drug-induced dystonic reactions | acute panic attacks acute anxiety and agitation anxiety-associated insomnia anxiety-associated dyspnoea (palliative care) muscle spasm tetanus acute alcohol withdrawal acute drug-induced dystonic reactions premedication sedation status epilepticus febrile convulsions convulsions due to poisoning muscle spasm pain (palliative care) |
| Hydroxyzine | - pruritus | - pruritus |
| Lorazepam | premedication status epilepticus febrile convulsions convulsions caused by poisoning | anxiety (short-term use) acute panic attacks anxiety-associated insomnia sedation premedication status epilepticus febrile convulsions convulsions caused by poisoning |
| Midazolam | status epilepticus febrile convulsions sedation premedication induction of anaesthesia | status epilepticus febrile convulsions sedation premedication induction of anaesthesia adjunct to antipsychotic (palliative care) convulsions (palliative care) |

NR: not reported

Hypnotics

| Drug | Indications from NICE Child BNF Guidelines | Indications from NICE Adult BNF Guidelines |
|--------------|--|--|
| Chloral | - sedation | - insomnia |
| hydrate | - insomnia | lisolilla |
| Melatonin | sleep onset insomnia | - insomnia |
| weiatonini | delayed sleep phase syndrome | - jet lag |
| Nitrazepam | NR | - insomnia |
| Promethazine | symptomatic relief of allergy insomnia sedation nausea/vomiting/vertigo/labyrinthine disorders/motion sickness (travel) | symptomatic relief of allergy anaphylactic reactions (emergency) sedation nausea/vomiting/vertigo/labyrinthine disorders/motion sickness (travel) |
| Temazepam | - premedication (surgery) | premedication (surgery) insomnia sedation (dental procedures) |
| Triclofos | NR | NR |
| Zopiclone | NR | - insomnia |

NR: not reported

Appendix 9: Read Code, ICD-10 Code & Prescription Lists – Maternal Mental Health Conditions

| Medcode | Read Code | Description | |
|---------|-----------|--|--|
| 2076 | E2100 | Personality disorders | |
| 5652 | E210.00 | Paranoid personality disorder | |
| 14979 | E211.00 | Affective personality disorder | |
| 16178 | E211000 | Unspecified affective personality disorder | |
| 28227 | E2111 | Neurotic personality disorder | |
| 12228 | E211100 | Hypomanic personality disorder | |
| 12707 | E211300 | Cyclothymic personality disorder | |
| 51497 | E211z00 | Affective personality disorder NOS | |
| 3369 | E212.00 | Schizoid personality disorder | |
| 67130 | E212000 | Unspecified schizoid personality disorder | |
| 61969 | E212200 | Schizotypal personality | |
| 14747 | E212z00 | Schizoid personality disorder NOS | |
| 23597 | E213.00 | Explosive personality disorder | |
| 6339 | E213.11 | Aggressive personality | |
| 20881 | E214.00 | Compulsive personality disorders | |
| 30395 | E214000 | Anankastic personality | |
| 1293 | E214100 | Obsessional personality | |
| 40057 | E214.11 | Anancastic personality | |
| 34456 | E214z00 | Compulsive personality disorder NOS | |
| 27481 | E215.00 | Histrionic personality disorders | |
| 44242 | E215000 | Unspecified histrionic personality disorder | |
| 19927 | E215100 | Munchausen's syndrome | |
| 4759 | E215.11 | Hysterical personality disorders | |
| 3709 | E215200 | Emotionally unstable personality | |
| 60522 | E215z00 | Histrionic personality disorder NOS | |
| 4515 | E216.00 | Inadequate personality disorder | |
| 48796 | E216.11 | Asthenic personality | |
| 21665 | E216.12 | Dependent personality | |
| 19931 | E216.13 | Labile personality | |
| 23977 | E217.00 | Antisocial or sociopathic personality disorder | |
| 68042 | E217.11 | Amoral personality | |
| 25146 | E21y.00 | Other personality disorders | |
| 37289 | E21y000 | Narcissistic personality disorder | |
| 35642 | E21y100 | Avoidant personality disorder | |
| 18565 | E21y200 | Borderline personality disorder | |
| 35763 | E21y300 | Passive-aggressive personality disorder | |
| 27803 | E21y400 | Eccentric personality disorder | |
| 1364 | E21y500 | Immature personality disorder | |
| 70899 | E21y600 | Masochistic personality disorder | |
| 21077 | E21y700 | Psychoneurotic personality disorder | |
| 2729 | E21y711 | Neurotic personality | |
| 15960 | E21yz00 | Other personality disorder NOS | |
| 15098 | E21z.00 | Personality disorder NOS | |
| 792 | E21z.11 | Psychopathic personality | |
| 20255 | E2C3100 | Pathological gambling | |
| 26859 | Eu21.18 | [X]Schizotypal personality disorder | |
| 26839 | Eu34011 | [X]Affective personality disorder | |
| 54848 | Eu34012 | [X]Cycloid personality | |
| 23854 | Eu34013 | [X]Cyclothymic personality | |
| 10290 | Eu34112 | [X]Depressive personality disorder | |

Severe Mental Illness - Diagnostic Read Codes

| Medcode | Read Code | Description | |
|----------------|--------------------|--|--|
| 21005 | Eu600 | [X]Disorders of adult personality and behaviour | |
| 50188 | Eu60.00 | [X]Specific personality disorders | |
| 21338 | Eu60000 | [X]Paranoid personality disorder | |
| 111667 | Eu60011 | [X]Expansive paranoid personality disorder | |
| 69000 | Eu60013 | [X]Querulant personality disorder | |
| 48687 | Eu60014 | [X]Sensitive paranoid personality disorder | |
| 38371 | Eu60100 | [X]Schizoid personality disorder | |
| 31632 | Eu60200 | [X]Dissocial personality disorder | |
| 105029 | Eu60211 | [X]Amoral personality disorder | |
| 32869 | Eu60212 | [X]Antisocial personality disorder | |
| 56502 | Eu60213 | [X]Asocial personality disorder | |
| 21671 | Eu60214 | [X]Psychopathic personality disorder | |
| 45188 | Eu60215 | [X]Sociopathic personality disorder | |
| 7745 | Eu60300 | [X]Emotionally unstable personality disorder | |
| 20839 | Eu60311 | [X]Aggressive personality disorder | |
| 31789 | Eu60312 | [X]Borderline personality disorder | |
| 58693 | Eu60312 | [X]Explosive personality disorder | |
| 43690 | Eu60400 | [X]Histrionic personality disorder | |
| 27945 | Eu60400 | [X]Hysterical personality disorder | |
| 69185 | Eu60411 | [X]Psychoinfantile personality disorder | |
| 52465 | Eu60500 | [X]Anankastic personality disorder | |
| 38100 | Eu60500 | [X]Compulsive personality disorder | |
| 22259 | Eu60511 | [X]Obsessional personality disorder | |
| 17420 | Eu60512 | [X]Obsessive-compulsive personality disorder | |
| 8424 | Eu60600 | [X]Anxious [avoidant] personality disorder | |
| 31819 | Eu60700 | [X]Dependent personality disorder | |
| 39535 | Eu60700 | [X]Asthenic personality disorder | |
| 38031 | Eu60711 | [X]Inadequate personality disorder | |
| | | [X]Passive personality disorder | |
| 33741 59008 | Eu60713 Eu60714 | [X]Self defeating personality disorder | |
| 40104 | Eu60800 | [X]Addictive personality | |
| 49600 | Eu60y00 | [X]Other specific personality disorders | |
| 55969 | Eu60y00 Eu60y11 | [X]Eccentric personality disorder | |
| 71431 | - | | |
| 49779 | Eu60y12 | [X]Haltlose type personality disorder | |
| | Eu60y13 | [X]Immature personality disorder | |
| 53335 | Eu60y14 | [X]Narcissistic personality disorder | |
| 50348 | Eu60y16 | [X]Psychoneurotic personality disorder [X]Personality disorder; unspecified | |
| 42496 | Eu60z00 | | |
| 57567 | Eu60z11 | [X]Character neurosis NOS | |
| 49721 | Eu60z12 | [X]Pathological personality NOS | |
| 30603 | Eu61.00 | [X]Mixed and other personality disorders | |
| 56347 | Eu62.00 | [X]Enduring personality change not attrib to brain damag/dis | |
| 48232 | Eu62000 | [X]Enduring personality change after catastrophic experience | |
| 57440 | Eu62011 | [X]Personality change after concentration camp experiences | |
| 65695 | Eu62012 | [X]Personality change after disasters | |
| 53555 | Eu62013 | [X]Personality change aft prolong captiv+possib/being killed | |
| 41298 | Eu62014 | [X]Personlty chang aft expos life-threat sit/victim/terrorsm | |
| 31817 | Eu62015 | [X]Personality change after torture | |
| 37531 | Eu62100 | [X]Enduring personality change after psychiatric illness | |
| 35268 | Eu62y00 | [X]Other enduring personality changes | |
| 34881 | Eu62y11 | [X]Chronic pain personality syndrome | |
| 87000 | Eu62z00 | [X]Enduring personality change; unspecified | |
| 20973 | Eu63.00 | [X]Habit and impulse disorders | |
| 45543 | Eu63000 | [X]Pathological gambling | |
| 8863 | Eu63011 | [X]Compulsive gambling | |

| Medcode | Read Code | Description | |
|----------------|--------------------|---|--|
| 32142 | Eu63100 | [X]Pathological fire-setting | |
| 11731 | Eu63200 | [X]Pathological stealing | |
| 3165 | Eu63300 | [X]Trichotillomania | |
| 25152 | Eu63y00 | [X]Other habit and impulse disorders | |
| 58897 | Eu63z00 | [X]Habit and impulse disorder; unspecified | |
| 64838 | Eu6y.00 | [X]Other disorders of adult personality and behaviour | |
| 37622 | Eu6y000 | [X]Elaboration of physical symptoms for psychological reason | |
| 39353 | Eu6y100 | [X]Intent product/feign of symptom/disab eith physical/psych | |
| 31021 | Eu6y111 | [X] Munchausens syndrome | |
| 46560 | Eu6y200 | [X]Munchausen's by proxy | |
| 107644 | Eu6y300 | [X]Factitious disorder | |
| 34896 | Eu6yy00 | [X]Other specified disorders of adult personality/behaviour | |
| 39777 | Eu6z.00 | [X]Unspecified disorder of adult personality and behaviour | |
| 22713 | 1S42.00 | Manic mood | |
| 19345 | 212T.00 | Psychosis; schizophrenia + bipolar affective disord resolved | |
| 2117 | E107.00 | Schizo-affective schizophrenia | |
| 58862 | E107000 | Unspecified schizo-affective schizophrenia | |
| 61098 | E107100 | Subchronic schizo-affective schizophrenia | |
| 99000 | E107.11 | Cyclic schizophrenia | |
| 43800 | E107200 | Chronic schizo-affective schizophrenia | |
| 58866 | E107300 | Acute exacerbation subchronic schizo-affective schizophrenia | |
| 63478 | E107400 | Acute exacerbation of chronic schizo-affective schizophrenia | |
| 10575 | E107z00 | Schizo-affective schizophrenia NOS | |
| 14656 | E1100 | Affective psychoses | |
| 37070 | E110.00 | Manic disorder; single episode | |
| 20110 | E110000 | Single manic episode; unspecified | |
| 14728 | E110100 | Single manic episode; mild | |
| 18909 | E110.11 | Hypomanic psychoses | |
| 24640 | E110200 | Single manic episode; moderate | |
| 43093 | E110300 | Single manic episode; severe without mention of psychosis | |
| 50218 | E110400 | Single manic episode; severe; with psychosis | |
| 109485 | E110500 | Single manic episode in partial or unspecified remission | |
| 36611 | E110z00 | Manic disorder; single episode NOS | |
| 26227 | E111.00 | Recurrent manic episodes | |
| 19967 | E111000 | Recurrent manic episodes; unspecified | |
| 8567 | E1111 | Bipolar psychoses | |
| 46425 | E111100 | Recurrent manic episodes; mild | |
| 27739 | E111200 | Recurrent manic episodes; moderate | |
| 65811 | E111300 | Recurrent manic episodes; severe without mention psychosis | |
| 32295 | E111400 | Recurrent manic episodes; severe; with psychosis | |
| 58863 | E111500 | Recurrent manic episodes; partial or unspecified remission | |
| 46415 | E111z00 | Recurrent manic episode NOS | |
| 32159 | E112400 | Single major depressive episode; severe; with psychosis | |
| 24171 | E113400 | Recurrent major depressive episodes; severe; with psychosis | |
| 3702 | E114.00 | Bipolar affective disorder; currently manic | |
| 35738 | E114000 | Bipolar affective disorder; currently manic; unspecified Bipolar affective disorder; currently manic; mild | |
| 36126 17385 | E114100 | | |
| | E114.11 | Manic-depressive - now manic Bipolar affective disorder; currently manic; moderate | |
| 46434 16347 | E114200 E114300 | | |
| 55829 | E114300 E114400 | Bipolar affect disord; currently manic; severe; no psychosis Bipolar affect disord; currently manic; severe with psychosis | |
| 59011 | E114400 E114500 | | |
| 57605 | E114500 E114z00 | Bipolar affect disord; currently manic; part/unspec remission | |
| 4677 | E114200 E115.00 | Bipolar affective disorder; currently manic; NOS | |
| 15923 | E115.00 E115000 | Bipolar affective disorder; currently depressed | |
| 17272 | E112000 | Bipolar affective disorder; currently depressed; unspecified | |

| Medcode | Read Code | Description | |
|----------------|--------------------|--|--|
| 35734 | E115100 | Bipolar affective disorder; currently depressed; mild | |
| 12831 | E115.11 | Manic-depressive - now depressed | |
| 27890 | E115200 | Bipolar affective disorder; currently depressed; moderate | |
| 35607 | E115300 | Bipolar affect disord; now depressed; severe; no psychosis | |
| 63701 | E115400 | Bipolar affect disord; now depressed; severe with psychosis | |
| 72026 | E115500 | Bipolar affect disord; now depressed; part/unspec remission | |
| 37296 | E115z00 | Bipolar affective disorder; currently depressed; NOS | |
| 31316 | E116.00 | Mixed bipolar affective disorder | |
| 31535 | E116000 | Mixed bipolar affective disorder; unspecified | |
| 24689 | E116100 | Mixed bipolar affective disorder; mild | |
| 63150 | E116200 | Mixed bipolar affective disorder; moderate | |
| 63284 | E116300 | Mixed bipolar affective disorder; severe; without psychosis | |
| 54195 | E116400 | Mixed bipolar affective disorder; severe; with psychosis | |
| 63651 | E116500 | Mixed bipolar affective disorder; partial/unspec remission | |
| 63583 | E116z00 | Mixed bipolar affective disorder; NOS | |
| 14784 | E117.00 | Unspecified bipolar affective disorder | |
| 49763 | E117.00 | Unspecified bipolar affective disorder; unspecified | |
| 63698 | E117000 | Unspecified bipolar affective disorder; mild | |
| 63698 | E117100 E117200 | Unspecified bipolar affective disorder; mild | |
| 73423 | E117200 E117300 | Unspecified bipolar affective disorder; severe; no psychosis | |
| | | | |
| 68326 70721 | E117400 E117500 | Unspecified bipolar affective disorder; severe with psychosis Unspecified bipolar affect disord; partial/unspec remission | |
| | | | |
| 27986 | E117z00 | Unspecified bipolar affective disorder; NOS | |
| 60178 | E11y.00 | Other and unspecified manic-depressive psychoses | |
| 11596 | E11y000 | Unspecified manic-depressive psychoses | |
| 70925 | E11y100 | Atypical manic disorder | |
| 70399 | E11y300 | Other mixed manic-depressive psychoses | |
| 33426 | E11yz00 | Other and unspecified manic-depressive psychoses NOS | |
| 41992 | E11z.00 | Other and unspecified affective psychoses | |
| 54607 | E11z000 | Unspecified affective psychoses NOS | |
| 33425 | E11zz00 | Other affective psychosis NOS | |
| 8478 | E130.00 | Reactive depressive psychosis | |
| 8766 | EuOz.12 | [X]Symptomatic psychosis NOS | |
| 20785 | Eu20400 | [X]Post-schizophrenic depression | |
| 9422 | Eu25.00 | [X]Schizoaffective disorders | |
| 33847 | Eu25000 | [X]Schizoaffective disorder; manic type | |
| 16905 | Eu25011 | [X]Schizoaffective psychosis; manic type | |
| 11055 | Eu25100 | [X]Schizoaffective disorder; depressive type | |
| 35274 | Eu25111 | [X]Schizoaffective psychosis; depressive type | |
| 33693 | Eu25200 | [X]Schizoaffective disorder; mixed type | |
| 104763 | Eu25211 | [X]Cyclic schizophrenia | |
| 37580 | Eu25212 | [X]Mixed schizophrenic and affective psychosis | |
| 58532 | Eu25y00 | [X]Other schizoaffective disorders | |
| 37681 | Eu25z00 | [X]Schizoaffective disorder; unspecified | |
| 33410 | Eu25z11 | [X]Schizoaffective psychosis NOS | |
| 12173 | Eu30.00 | [X]Manic episode | |
| 2741 | Eu30000 | [X]Hypomania | |
| 13024 | Eu30100 | [X]Mania without psychotic symptoms | |
| 9521 | Eu30.11 | [X]Bipolar disorder; single manic episode | |
| 21065 | Eu30200 | [X]Mania with psychotic symptoms | |
| 37102 | Eu30211 | [X]Mania with mood-congruent psychotic symptoms | |
| 48632 | Eu30212 | [X]Mania with mood-incongruent psychotic symptoms | |
| 32088 | Eu30y00 | [X]Other manic episodes | |
| 44513 | Eu30z00 | [X]Manic episode; unspecified | |
| 4678 | Eu30z11 | [X]Mania NOS | |

| 6874 Eu31.00 [X] Bipolar affective disorder 16808 Eu31000 [X] Bipolar affective disorder; current episode hypomanic 26299 Eu31100 [X] Bipolar affect disorder cur epi manic wout psychotic symp 1531 Eu31.11 [X] Manic-depressive psychosis 66113 Eu31.13 [X] Manic-depressive reaction 28277 Eu31200 [X] Bipolar affect disorder cur epi manic with psychotic symp 16562 Eu31300 [X] Bipolar affect disorder cur epi manic with psychotic symp 144693 Eu31600 [X] Bipolar affective disorder; current episode mixed 104055 Eu31800 [X] Bipolar affective disorder; current episode mixed 104055 Eu31900 [X] Bipolar affective disorder; current episode mixed 104051 Eu31900 [X] Bipolar affective disorder; 103915 Eu31900 [X] Bipolar affective disorders 51302 Eu3111 [X] Bipolar affective disorder; 103915 Eu31900 [X] Bipolar affective disorder; 12099 Eu32300 [X] Bipolar affective disorder; 13371 [X] Single episode of psychotic symptoms 24 | Medcode | Read Code | Description | |
|---|---------|-----------|--|--|
| 16808 Eu31000 [X]Bipolar affect disorder; current episode hypomanic 26299 Eu31100 [X]Bipolar affect disorder cur epi manic wout psychotic symp 1531 Eu31.11 [X]Manic-depressive ilness 6710 Eu31.12 [X]Manic-depressive reaction 28277 Eu31200 [X]Bipolar affect disorder cur epi manic with psychotic symp 16562 Eu31000 [X]Bipolar affect disorder; current episode mixed 104055 Eu31400 [X]Bipolar affective disorder; current episode mixed 104065 Eu31800 [X]Bipolar affective disorder type I 10315 Eu31900 [X]Bipolar affective disorder type II 104051 Eu31910 [X]Bipolar affective disorders; 10315 Eu31900 [X]Bipolar affective disorders; 10322 Eu3111 [X]Bipolar affective disorders; 110315 Eu32000 [X]Brever depressive episodes 12039 Eu32100 [X]Bipolar affective disorder; 1212 Eu32101 [X]Bipolar affective disorder; 12032 Eu3111 [X]Bipolar affective disorder; 12032 Eu3141 [X]B | | | | |
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| 52678Eu32312[X]Single episode of psychogenic depressive psychosis24112Eu32313[X]Single episode of psychotic depression28863Eu32314[X]Single episode of reactive depressive psychosis98417Eu32800[X]Major depression; severe with psychic symptoms101054Eu32900[X]Single major depr ep; severe with psych; psych in remiss101153Eu32400[X]Recurr major depr ep; severe with psych; psych in remiss29451Eu3313[X]Manic-depress psychosis;depressd;no psychotic symptoms47009Eu3300[X]Recurrent depress psychosis;depressd;no psychotic symptoms23731Eu3311[X]Endogenous depression with psychotic symptoms28677Eu3312[X]Manic-depress psychosis;depressed type+psychotic symptoms31757Eu3314[X]Recurr severe episodes/major depression spychosis16861Eu3315[X]Recurrent severe episodes/psychogenic depressive psychosis31633Eu32.11[X]Affective psychosis NOS19151BH00Delusions434621BH0.00Delusion of persecution179821BH11Delusion of persecution23733E100.00C/E - delusion of persecution247428611Poor insight into psychotic condition2513225F.00O/E - delusion of persecution2523225F.00O/E - delusion of persecution3734E1000Schizophrenia2513E1000Schizophrenia2523E1000Schizophrenia2523E10.00Schizophrenia </td <td></td> <td></td> <td></td> | | | | |
| 24112Eu32313[X]Single episode of psychotic depression28863Eu32314[X]Single episode of reactive depressive psychosis98417Eu32800[X]Major depression; severe with psychic symptoms101054Eu32900[X]Single major depr ep; severe with psych; psych in remiss101153Eu32A00[X]Recurr major depr ep; severe with psych; psych in remiss29451Eu33213[X]Manic-depress psychosis; depression psychotic symptoms27009Eu3311[X]Endogenous depression with psychotic symptoms28677Eu33312[X]Manic-depress psychosis; depressed type+psychotic symptoms28677Eu33313[X]Recurrent depress psychosis; depression+psychotic symptoms32941Eu33313[X]Recurrent severe episodes/major depression+psychotic symptom31757Eu33314[X]Recurrent severe episodes of psychotic depression31764Eu33316[X]Recurrent severe episodes/reactive depressive psychosis191518H00Delusions4346218H0.00Delusion of persecution1798218H11Delusion12472225E.00O/E - paranoid delusions52523225F.00O/E - delusion of persecution261788HHs.00Referral to psychosis early intervention service15958E100Schizophrenia22644E1000Simple schizophrenia22616E100100Subchronic schizophrenia23222E100.00Simple schizophrenia23232E100.00Subchronic schizophrenia | | | | |
| 28863Eu32314[X]Single episode of reactive depressive psychosis98417Eu32800[X]Major depression; severe with psychic symptoms101054Eu32900[X]Single major depr ep; severe with psych; psych in remiss101153Eu32A00[X]Recurr major depr ep; severe with psych; psych in remiss29451Eu33213[X]Manic-depress psychosis; depressd; no psychotic symptoms47009Eu33300[X]Recurrent depress disorder cur epi severe with psyc symp23731Eu33311[X]Endogenous depression with psychotic symptoms28677Eu33312[X]Manic-depress psychosis; depressed type+psychotic symptoms32941Eu33313[X]Recurrent severe episodes/major depression+psychotic symptom31757Eu33314[X]Recurrent severe episodes/reactive depressive psychosis16861Eu33315[X]Recurrent severe episodes/reactive depressive psychosis31633Eu32.11[X]Affective psychosis NOS19151BH.00Delusions434621BH0.00Delusion of persecution179821BH11Delusion12472225E.00O/E - paranoid delusions52523225F.00O/E - delusion of persecution439028511Psychotic condition; insight present264428611Poor insight into psychosis early intervention service15958E100Schizophrenia15733E100000Subchronic schizophrenia23222E100.00Simple schizophrenia23234E100100Subchronic schizophrenia23244E1 | | | | |
| 98417Eu32800[X]Major depression; severe with psychic symptoms101054Eu32900[X]Single major depr ep; severe with psych; psych in remiss101153Eu32400[X]Recurr major depr ep; severe with psych; psych in remiss29451Eu3213[X]Manic-depress psychosis; depression opsychotic symptoms47009Eu33300[X]Recurrent depress disorder cur epi severe with psyc symp23731Eu3311[X]Endogenous depression with psychotic symptoms28677Eu3312[X]Manic-depress psychosis; depressed type+psychotic symptoms32941Eu3313[X]Recurr severe episodes/major depression+psychotic symptom31757Eu3314[X]Recurr severe episodes/psychogenic depressive psychosis16861Eu3315[X]Recurrent severe episodes/psychotic depression37764Eu3316[X]Recurrent severe episodes/reactive depressive psychosis31633Eu32.11[X]Affective psychosis NOS19151BH00Delusions434621BH0.00Delusion of persecution179821BH11Delusion12472225E.00O/E - paranoid delusions52523225F.00O/E - delusion of persecution439028511Psychotic condition; insight present2264428611Poor insight into psychotic condition261788HHs.00Referral to psychoses854E1000Schizophrenia32222E100.00Simple schizophrenia23616E100100Subchronic schizophrenia23616E100100Subchronic schizo | - | | | |
| 101054Eu32900[X]Single major depr ep; severe with psych; psych in remiss101153Eu32A00[X]Recurr major depr ep; severe with psych; psych in remiss29451Eu33213[X]Manic-depress psychosis; depressd; no psychotic symptoms47009Eu3300[X]Recurrent depress disorder cur epi severe with psyc symp23731Eu3311[X]Endogenous depression with psychotic symptoms28677Eu3312[X]Manic-depress psychosis; depressed type+psychotic symptoms32941Eu3313[X]Recurr severe episodes/major depressive psychosis16861Eu3314[X]Recurrent severe episodes/psychogenic depressive psychosis16861Eu3316[X]Recurrent severe episodes/reactive depressive psychosis31633Eu32.11[X]Affective psychosis NOS19151BH.00Delusions434621BH0.00Delusion of persecution179821BH.11Delusion12472225E.00O/E - paranoid delusions52523225F.00O/E - delusion of persecution439028511Psychotic condition; insight present264428611Poor insight into psychotic condition261788HHs.00Referral to psychosis854E1000Schizophrenia32222E100.00Simple schizophrenia32225E10.00Schizophrenia3222E100.00Simple schizophrenia3232E10000Unspecified schizophrenia3234E10000Subchronic schizophrenia3235E10010Subchronic schizophreni | | | | |
| 101153Eu32A00[X]Recurr major depr ep; severe with psych; psych in remiss29451Eu33213[X]Manic-depress psychosis; depressd; no psychotic symptoms47009Eu33300[X]Recurrent depress disorder cur epi severe with psyc symp23731Eu3311[X]Endogenous depression with psychotic symptoms28677Eu33312[X]Manic-depress psychosis; depressed type+psychotic symptom31757Eu3313[X]Recurr severe episodes/major depression+psychotic symptom31757Eu3314[X]Recurrent severe episodes of psychotic depression37764Eu3316[X]Recurrent severe episodes/reactive depressive psychosis31633Eu32.11[X]Affective psychosis NOS19151BH.00Delusions434621BH0.00Delusion of persecution12472225E.00O/E - paranoid delusions52523225F.00O/E - delusion of persecution264428611Poor insight into psychotic condition261788HHs.00Referral to psychosis early intervention service15958E100Schizophrenia32222E100.00Simple schizophrenia2323E10000Unspecified schizophrenia23245E10000Subchronic schizophrenia2325E100.01Subchronic schizophrenia | | | | |
| 29451Eu33213[X]Manic-depress psychosis;depressd;no psychotic symptoms47009Eu3300[X]Recurrent depress disorder cur epi severe with psyc symp23731Eu3311[X]Endogenous depression with psychotic symptoms28677Eu3312[X]Manic-depress psychosis;depressed type+psychotic symptoms32941Eu3313[X]Recurr severe episodes/major depression+psychotic symptom31757Eu3314[X]Recurr severe episodes/psychogenic depressive psychosis16861Eu3315[X]Recurrent severe episodes of psychotic depression37764Eu3316[X]Recurrent severe episodes/reactive depressive psychosis31633Eu32.11[X]Affective psychosis NOS19151BH.00Delusions434621BH0.00Delusion of persecution179821BH11Delusion12472225E.00O/E - paranoid delusions52523225F.00O/E - delusion of persecution439028511Psychotic condition; insight present2264428611Poor insight into psychotic condition261788HHs.00Referral to psychoses854E10.00Schizophrenia32222E100.00Simple schizophrenia3733E100000Unspecified schizophrenia23616E100100Subchronic schizophrenia23616E100100Subchronic schizophrenia | | | | |
| 47009Eu33300[X]Recurrent depress disorder cur epi severe with psyc symp23731Eu3311[X]Endogenous depression with psychotic symptoms28677Eu33312[X]Manic-depress psychosis;depressed type+psychotic symptoms32941Eu3313[X]Recurr severe episodes/major depression+psychotic symptom31757Eu3314[X]Recurr severe episodes/psychogenic depressive psychosis16861Eu3315[X]Recurrent severe episodes of psychotic depression37764Eu3316[X]Recurrent severe episodes/reactive depressive psychosis31633Eu32.11[X]Affective psychosis NOS19151BH.00Delusions434621BH0.00Delusion of persecution179821BH.11Delusion12472225E.00O/E - paranoid delusions52523225F.00O/E - delusion of persecution439028511Psychotic condition; insight present2264428611Poor insight into psychotic condition261788HHs.00Referral to psychoses854E10.00Schizophrenia32222E100.00Simple schizophrenia23616E100100Subchronic schizophrenia23616E100100Subchronic schizophrenia23616E100100Subchronic schizophrenia | | | | |
| 23731Eu33311[X]Endogenous depression with psychotic symptoms28677Eu33312[X]Manic-depress psychosis;depressed type+psychotic symptoms32941Eu33313[X]Recurr severe episodes/major depression+psychotic symptom31757Eu33314[X]Recurr severe episodes/psychogenic depressive psychosis16861Eu33315[X]Recurrent severe episodes/psychogenic depression37764Eu33316[X]Recurrent severe episodes/reactive depressive psychosis31633Eu32.11[X]Affective psychosis NOS19151BH.00Delusions434621BH0.00Delusion of persecution179821BH11Delusion12472225E.00O/E - paranoid delusions52523225F.00O/E - delusion of persecution439028511Psychotic condition; insight present2264428611Poor insight into psychotic condition2178BHHs.00Referral to psychoses854E1000Schizophrenic disorders32222E100.00Simple schizophrenia15733E10000Unspecified schizophrenia23616E100100Subchronic schizophrenia73295E100.11Schizophrenia simplex | | | | |
| 28677Eu33312[X]Manic-depress psychosis;depressed type+psychotic symptoms32941Eu33313[X]Recurr severe episodes/major depression+psychotic symptom31757Eu33314[X]Recurr severe episodes/psychogenic depressive psychosis16861Eu33315[X]Recurrent severe episodes of psychotic depression37764Eu33316[X]Recurrent severe episodes/reactive depressive psychosis31633Eu32.11[X]Affective psychosis NOS19151BH.00Delusions434621BH0.00Delusion of persecution179821BH.11Delusion12472225E.00O/E - paranoid delusions52523225F.00O/E - delusion of persecution439028511Psychotic condition; insight present2264428611Poor insight into psychotic condition261788HHs.00Referral to psychoses854E1000Schizophrenic disorders32222E100.00Simple schizophrenia15733E100000Unspecified schizophrenia23616E100100Subchronic schizophrenia73295E100.11Schizophrenia simplex | - | | | |
| 32941Eu33313[X]Recurr severe episodes/major depression+psychotic symptom31757Eu33314[X]Recurr severe episodes/psychogenic depressive psychosis16861Eu33315[X]Recurrent severe episodes of psychotic depression37764Eu33316[X]Recurrent severe episodes/reactive depressive psychosis31633Eu3z.11[X]Affective psychosis NOS19151BH00Delusions434621BH0.00Delusion of persecution179821BH11Delusion12472225E.00O/E - paranoid delusions52523225F.00O/E - delusion of persecution439028511Psychotic condition; insight present2264428611Poor insight into psychotic condition261788HHs.00Referral to psychosis early intervention service15958E100Schizophrenia disorders32222E100.00Simple schizophrenia15733E100000Unspecified schizophrenia23616E100100Subchronic schizophrenia73295E100.11Schizophrenia simplex | | | | |
| 31757Eu33314[X]Recurr severe episodes/psychogenic depressive psychosis16861Eu33315[X]Recurrent severe episodes of psychotic depression37764Eu33316[X]Recurrent severe episodes/reactive depressive psychosis31633Eu3z.11[X]Affective psychosis NOS19151BH.00Delusions434621BH0.00Delusion of persecution179821BH.11Delusion12472225E.00O/E - paranoid delusions52523225F.00O/E - delusion of persecution439028511Psychotic condition; insight present2264428611Poor insight into psychotic condition261788HHs.00Referral to psychoses854E1000Schizophrenic disorders32222E100.00Simple schizophrenia15733E100000Unspecified schizophrenia23616E100100Subchronic schizophrenia73295E100.11Schizophrenia simplex | | | | |
| 16861Eu33315[X]Recurrent severe episodes of psychotic depression37764Eu33316[X]Recurrent severe episodes/reactive depressive psychosis31633Eu32.11[X]Affective psychosis NOS19151BH.00Delusions434621BH0.00Delusion of persecution179821BH11Delusion12472225E.00O/E - paranoid delusions52523225F.00O/E - delusion of persecution439028511Psychotic condition; insight present2264428611Poor insight into psychotic condition261788HHs.00Referral to psychoses854E1000Schizophrenic disorders32222E100.00Simple schizophrenia15733E100000Unspecified schizophrenia23616E100100Subchronic schizophrenia73295E100.11Schizophrenia simplex | | | | |
| 37764Eu33316[X]Recurrent severe episodes/reactive depressive psychosis31633Eu3z.11[X]Affective psychosis NOS19151BH00Delusions434621BH0.00Delusion of persecution179821BH11Delusion12472225E.00O/E - paranoid delusions52523225F.00O/E - delusion of persecution439028511Psychotic condition; insight present2264428611Poor insight into psychotic condition261788HHs.00Referral to psychosis early intervention service15958E100Schizophrenic disorders32222E100.00Simple schizophrenia15733E100000Unspecified schizophrenia23616E100100Subchronic schizophrenia73295E100.11Schizophrenia simplex | | | | |
| 31633Eu3z.11[X]Affective psychosis NOS19151BH00Delusions434621BH0.00Delusion of persecution179821BH11Delusion12472225E.00O/E - paranoid delusions52523225F.00O/E - delusion of persecution439028511Psychotic condition; insight present2264428611Poor insight into psychotic condition261788HHs.00Referral to psychosis early intervention service15958E100Non-organic psychoses854E1000Schizophrenia disorders32222E100.00Simple schizophrenia15733E100000Unspecified schizophrenia23616E100100Subchronic schizophrenia73295E100.11Schizophrenia simplex | | | | |
| 19151BH00Delusions434621BH0.00Delusion of persecution179821BH11Delusion12472225E.00O/E - paranoid delusions52523225F.00O/E - delusion of persecution439028511Psychotic condition; insight present2264428611Poor insight into psychotic condition261788HHs.00Referral to psychosis early intervention service15958E100Non-organic psychoses854E1000Schizophrenic disorders32222E100.00Simple schizophrenia15733E100000Unspecified schizophrenia23616E100100Subchronic schizophrenia73295E100.11Schizophrenia simplex | | | | |
| 434621BH0.00Delusion of persecution179821BH11Delusion12472225E.00O/E - paranoid delusions52523225F.00O/E - delusion of persecution439028511Psychotic condition; insight present2264428611Poor insight into psychotic condition261788HHs.00Referral to psychosis early intervention service15958E100Non-organic psychoses854E10.00Schizophrenic disorders32222E100.00Simple schizophrenia15733E100000Unspecified schizophrenia23616E100100Subchronic schizophrenia73295E100.11Schizophrenia simplex | | | | |
| 179821BH11Delusion12472225E.00O/E - paranoid delusions52523225F.00O/E - delusion of persecution439028511Psychotic condition; insight present2264428611Poor insight into psychotic condition261788HHs.00Referral to psychosis early intervention service15958E100Non-organic psychoses854E1000Schizophrenic disorders32222E100.00Simple schizophrenia15733E100000Unspecified schizophrenia23616E100100Subchronic schizophrenia73295E100.11Schizophrenia simplex | | | | |
| 12472225E.00O/E - paranoid delusions52523225F.00O/E - delusion of persecution439028511Psychotic condition; insight present2264428611Poor insight into psychotic condition261788HHs.00Referral to psychosis early intervention service15958E100Non-organic psychoses854E1000Schizophrenic disorders32222E100.00Simple schizophrenia15733E100000Unspecified schizophrenia23616E100100Subchronic schizophrenia73295E100.11Schizophrenia simplex | | | | |
| 52523225F.00O/E - delusion of persecution439028511Psychotic condition; insight present2264428611Poor insight into psychotic condition261788HHs.00Referral to psychosis early intervention service15958E100Non-organic psychoses854E1000Schizophrenic disorders32222E100.00Simple schizophrenia15733E100000Unspecified schizophrenia23616E100100Subchronic schizophrenia73295E100.11Schizophrenia simplex | | | | |
| 439028511Psychotic condition; insight present2264428611Poor insight into psychotic condition261788HHs.00Referral to psychosis early intervention service15958E100Non-organic psychoses854E1000Schizophrenic disorders32222E100.00Simple schizophrenia15733E100000Unspecified schizophrenia23616E100100Subchronic schizophrenia73295E100.11Schizophrenia simplex | - | | | |
| 2264428611Poor insight into psychotic condition261788HHs.00Referral to psychosis early intervention service15958E100Non-organic psychoses854E10.00Schizophrenic disorders32222E100.00Simple schizophrenia15733E100000Unspecified schizophrenia23616E100100Subchronic schizophrenia73295E100.11Schizophrenia simplex | | | | |
| 261788HHs.00Referral to psychosis early intervention service15958E100Non-organic psychoses854E1000Schizophrenic disorders32222E100.00Simple schizophrenia15733E100000Unspecified schizophrenia23616E100100Subchronic schizophrenia73295E100.11Schizophrenia simplex | - | | | |
| 15958E100Non-organic psychoses854E1000Schizophrenic disorders32222E100.00Simple schizophrenia15733E100000Unspecified schizophrenia23616E100100Subchronic schizophrenia73295E100.11Schizophrenia simplex | - | | | |
| 854E1000Schizophrenic disorders32222E100.00Simple schizophrenia15733E100000Unspecified schizophrenia23616E100100Subchronic schizophrenia73295E100.11Schizophrenia simplex | | | | |
| 32222E100.00Simple schizophrenia15733E100000Unspecified schizophrenia23616E100100Subchronic schizophrenia73295E100.11Schizophrenia simplex | | | | |
| 15733E100000Unspecified schizophrenia23616E100100Subchronic schizophrenia73295E100.11Schizophrenia simplex | - | | | |
| 23616E100100Subchronic schizophrenia73295E100.11Schizophrenia simplex | | | | |
| 73295 E100.11 Schizophrenia simplex | | | | |
| | | | | |
| 3984 E100200 Chronic schizophrenic | | | | |
| | - | | · | |
| | | | Acute exacerbation of subchronic schizophrenia | |
| 44498 E100400 Acute exacerbation of chronic schizophrenia | | | · · · · · · · · · · · · · · · · · · · | |
| 53625 E100z00 Simple schizophrenia NOS | 53625 | | | |
| 30619 E101.00 Hebephrenic schizophrenia | | | | |
| 66506 E101000 Unspecified hebephrenic schizophrenia | | | | |
| 97919 E101400 Acute exacerbation of chronic hebephrenic schizophrenia | 97919 | E101400 | | |

| Medcode | Read Code | Description | |
|---------|------------------|--|--|
| 48054 | E101z00 | Hebephrenic schizophrenia NOS | |
| 25546 | E101200 | Catatonic schizophrenia | |
| 58716 | E102.00 | Unspecified catatonic schizophrenia | |
| 99199 | E102000 | Subchronic catatonic schizophrenia | |
| 107222 | E102100 | Acute exacerbation of chronic catatonic schizophrenia | |
| | | | |
| 63867 | E102z00 | Catatonic schizophrenia NOS | |
| 1494 | E103.00 | Paranoid schizophrenia Unspecified paranoid schizophrenia | |
| 33383 | E103000 | Subchronic paranoid schizophrenia | |
| 104760 | E103100 | | |
| 31362 | E103200 | Chronic paranoid schizophrenia | |
| 51322 | E103300 | Acute exacerbation of subchronic paranoid schizophrenia | |
| 53032 | E103400 | Acute exacerbation of chronic paranoid schizophrenia | |
| 9281 | E103z00 | Paranoid schizophrenia NOS | |
| 576 | E104.00 | Acute schizophrenic episode | |
| 93167 | E104.11 | Oneirophrenia | |
| 66410 | E105.00 | Latent schizophrenia | |
| 102311 | E105000 | Unspecified latent schizophrenia | |
| 94299 | E105200 | Chronic latent schizophrenia | |
| 102446 | E105z00 | Latent schizophrenia NOS | |
| 38063 | E106.00 | Residual schizophrenia | |
| 39062 | E10y.00 | Other schizophrenia | |
| 33338 | E10y000 | Atypical schizophrenia | |
| 99070 | E10y100 | Coenesthopathic schizophrenia | |
| 92994 | E10y.11 | Cenesthopathic schizophrenia | |
| 49761 | E10yz00 | Other schizophrenia NOS | |
| 8407 | E10z.00 | Schizophrenia NOS | |
| 4261 | E1200 | Paranoid states | |
| 14743 | E120.00 | Simple paranoid state | |
| 3890 | E121.00 | Chronic paranoid psychosis | |
| 14971 | E122.00 | Paraphrenia | |
| 62680 | E123.00 | Shared paranoid disorder | |
| 50868 | E123.11 | Folie a deux | |
| 31589 | E12y.00 | Other paranoid states | |
| 66766 | E12y000 | Paranoia querulans | |
| 31455 | E12yz00 | Other paranoid states NOS | |
| 12771 | E12z.00 | Paranoid psychosis NOS | |
| 31984 | E1300 | Other nonorganic psychoses | |
| 17770 | E130.11 | Psychotic reactive depression | |
| 20228 | E1311 | Reactive psychoses | |
| 7332 | E132.00 | Reactive confusion | |
| 15053 | E133.00 | Acute paranoid reaction | |
| 68058 | E133.11 | Bouffee delirante | |
| 24345 | E134.00 | Psychogenic paranoid psychosis | |
| 16333 | E13y.00 | Other reactive psychoses | |
| 23538 | E13y100 | Brief reactive psychosis | |
| 26119 | E13yz00 | Other reactive psychosis NOS | |
| 14965 | E13z.00 | Nonorganic psychosis NOS | |
| 3636 | E13z.11 | Psychotic episode NOS | |
| 16537 | E1y00 | Other specified non-organic psychoses | |
| 22188 | E1z00 | Non-organic psychosis NOS | |
| 8766 | Eu0z.12 | [X]Symptomatic psychosis NOS | |
| 17281 | Eu02.12 Eu200 | | |
| | | [X]Schizophrenia; schizotypal and delusional disorders | |
| 34236 | Eu20.00 | [X]Schizophrenia | |
| 16764 | Eu20000 | [X]Paranoid schizophrenia | |
| 50060 | Eu20011 | [X]Paraphrenic schizophrenia | |

| Medcode | Read Code | Description | |
|---------|--------------------|--|--|
| 43405 | Eu20100 | [X]Hebephrenic schizophrenia | |
| 53985 | Eu20111 | [X]Disorganised schizophrenia | |
| 61501 | Eu20200 | [X]Catatonic schizophrenia | |
| 20572 | Eu20211 | [X]Catatonic stupor | |
| 64533 | Eu20212 | [X]Schizophrenic catalepsy | |
| 35877 | Eu20213 | [X]Schizophrenic catatonia | |
| 31493 | Eu20214 | [X]Schizophrenic flexibilatis cerea | |
| 60013 | Eu20300 | [X]Undifferentiated schizophrenia | |
| 91547 | Eu20311 | [X]Atypical schizophrenia | |
| 64264 | Eu20500 | [X]Residual schizophrenia | |
| 24107 | Eu20511 | [X]Chronic undifferentiated schizophrenia | |
| 35848 | Eu20600 | [X]Simple schizophrenia | |
| 49420 | Eu20y00 | [X]Other schizophrenia | |
| 94001 | Eu20y00 | [X]Schizophreniform disord NOS | |
| 18053 | Eu20y12 Eu20y13 | [X]Schizophrenifrm psychos NOS | |
| 34966 | Eu20y15 Eu20z00 | [X]Schizophrenia; unspecified | |
| 39316 | Eu21.00 | [X]Schizotypal disorder | |
| 91511 | Eu21.00 Eu21.11 | [X]Latent schizophrenic reaction | |
| 54387 | Eu21.11 | [X]Borderline schizophrenia | |
| 64993 | Eu21.12 | [X]Latent schizophrenia | |
| 62449 | Eu21.13 | [X]Prepsychotic schizophrenia | |
| 40386 | Eu21.14 Eu21.15 | [X]Prodromal schizophrenia | |
| 40386 | Eu21.15 Eu21.16 | [X]Pseudoneurotic schizophrenia | |
| 71250 | | [X]Pseudopsychopathic schizophrenia | |
| 28562 | Eu21.17 | | |
| | Eu22.00 | [X]Persistent delusional disorders [X]Delusional disorder | |
| 34389 | Eu22000 | [X]Paranoid psychosis | |
| 2113 | Eu22011 | | |
| 11172 | Eu22012 | [X]Paranoid state | |
| 47947 | Eu22013 | [X]Paraphrenia - late | |
| 65127 | Eu22014 | [X]Sensitiver Beziehungswahn | |
| 4843 | Eu22015 | [X]Paranoia | |
| 62405 | Eu22100 | [X]Delusional misidentification syndrome | |
| 55221 | Eu22111 | [X]Capgras syndrome | |
| 98821 | Eu22200 | [X]Cotard syndrome | |
| 66077 | Eu22y00 | [X]Other persistent delusional disorders | |
| 40981 | Eu22y11 | [X]Delusional dysmorphophobia | |
| 50248 | Eu22y12 | [X]Involutional paranoid state | |
| 55236 | Eu22y13 | [X]Paranoia querulans | |
| 49223 | Eu22z00 | [X]Persistent delusional disorder; unspecified | |
| 25019 | Eu23.00 | [X]Acute and transient psychotic disorders | |
| 36720 | Eu23000 | [X]Acute polymorphic psychot disord without symp of schizoph | |
| 50023 | Eu23011 | [X]Bouffee delirante | |
| 21455 | Eu23012 | [X]Cycloid psychosis | |
| 21595 | Eu23100 | [X]Acute polymorphic psychot disord with symp of schizophren | |
| 26143 | Eu23112 | [X]Cycloid psychosis with symptoms of schizophrenia | |
| 11778 | Eu23200 | [X]Acute schizophrenia-like psychotic disorder | |
| 59096 | Eu23211 | [X]Brief schizophreniform disorder | |
| 70884 | Eu23212 | [X]Brief schizophrenifrm psych | |
| 94604 | Eu23214 | [X]Schizophrenic reaction | |
| 44307 | Eu23300 | [X]Other acute predominantly delusional psychotic disorders | |
| 27770 | Eu23312 | [X]Psychogenic paranoid psychosis | |
| 44503 | Eu23y00 | [X]Other acute and transient psychotic disorders | |
| 34168 | Eu23z00 | [X]Acute and transient psychotic disorder; unspecified | |
| 31707 | Eu23z11 | [X]Brief reactive psychosis NOS | |
| 29651 | Eu23z12 | [X]Reactive psychosis | |

| Medcode | Read Code | Description | |
|---------|-----------|--|--|
| 51302 | Eu24.00 | [X]Induced delusional disorder | |
| 105606 | Eu24.11 | [X]Folie a deux | |
| 47230 | Eu24.12 | [X]Induced paranoid disorder | |
| 11973 | Eu24.13 | [X]Induced psychotic disorder | |
| 51903 | Eu25012 | [X]Schizophreniform psychosis; manic type | |
| 41022 | Eu25112 | [X]Schizophreniform psychosis; depressive type | |
| 30985 | Eu2y.00 | [X]Other nonorganic psychotic disorders | |
| 31738 | Eu2y.11 | [X]Chronic hallucinatory psychosis | |
| 11244 | Eu2z.00 | [X]Unspecified nonorganic psychosis | |
| 694 | Eu2z.11 | [X]Psychosis NOS | |
| 31738 | Eu2y.11 | [X]Chronic hallucinatory psychosis | |
| 11244 | Eu2z.00 | [X]Unspecified nonorganic psychosis | |
| 694 | Eu2z.11 | [X]Psychosis NOS | |

Severe Mental Illness - ICD-10 Codes

| ICD-10 Code | Description |
|-------------|---|
| F20 | Schizophrenia |
| F20.0 | Paranoid schizophrenia |
| F20.1 | Hebephrenic schizophrenia |
| F20.2 | Catatonic schizophrenia |
| F20.3 | Undifferntiated schizophrenia |
| F20.4 | Post-schizophrenic depression |
| F20.5 | Residual schizophrenia |
| F20.6 | Simple schizophrenia |
| F20.8 | Other schizophrenia |
| F20.9 | Schizophrenia, unspecified |
| F21 | Schizotypal disorder |
| F22 | Persistent delusional disorders |
| F22.0 | Delusional disorder |
| F22.8 | Other persistent delusional disorders |
| F22.9 | Persistent delusional disorder, unspecified |
| F23 | Acute and transient psychotic disorders |
| F23.0 | Acute polymorphic psychotic disorder without symptoms of schizophrenia |
| F23.1 | Acute polymorphic psychotic disorder without symptoms of schizophrenia |
| F23.2 | Acute schizophrenia-like psychotic disorder |
| F23.3 | Other acute predominantly delusional psychotic disorders |
| F23.8 | Other acute and transient psychotic disorders |
| F23.9 | Acute and transient psychotic disorder, unspecified |
| F24 | Induced delusional disorder |
| F25 | Schizoaffective disorders |
| F25.0 | Schizoaffective disorder, manic type |
| F25.1 | Schizoaffective disorder, depressive type |
| F25.2 | Schizoaffective disorder, mixed type |
| F25.8 | Other schizoaffective disorders |
| F25.9 | Schizoaffective disorder, unspecified |
| F28 | Other nonorganic psychotic disorders |
| F29 | Unspecified nonorganic psychosis |
| F30 | Manic episode |
| F30.0 | Hypomania |
| F30.1 | Mania without psychotic symptoms |
| F30.2 | Mania with psychotic symptoms |
| F30.8 | Other manic episodes |
| F30.9 | Manic episode, unspecified |
| F31 | Bipolar affective disorder |
| F31.0 | Bipolar affective disorder, current episode hypomanic |
| F31.1 | Bipolar affective disorder, current episode manic without psychotic symptoms |
| F31.2 | Bipolar affective disorder, current episode manic with psychotic symptoms |
| F31.3 | Bipolar affective disorder, current episode mild or moderate depression |
| | Bipolar affective disorder, current episode severe depression without psychotic |
| F31.4 | symptoms |
| | Bipolar affective disorder, current episode severe depression with psychotic |
| F31.5 | symptoms |
| F31.6 | Bipolar affective disorder, current episode mixed |
| F31.8 | Other bipolar affective disorders |
| F31.9 | Bipolar affective disorder, unspecified |
| F60 | Specific personality disorders |
| F60.0 | Paranoid personality disorder |
| F60.1 | Schizoid personality disorder |
| F60.2 | Dissocial personality disorder |
| | |

| ICD-10 Code | Description | |
|-------------|--|--|
| F60.3 | Emotionally unstable personality disorder | |
| F60.4 | Histrionic personality disorder | |
| F60.5 | Anankastic personality disorder | |
| F60.6 | Anxious [avoidant] personality disorder | |
| F60.7 | Dependent personality disorder | |
| F60.8 | Other specific personality disorders | |
| F60.9 | Personality disorder, unspecified | |
| F61 | Mixed and other personality disorders | |
| F62 | Enduring personality changes, not attributable to brain damage and disease | |
| F62.0 | Enduring personality change after catastrophic experience | |
| F62.1 | Enduring personality change after psychiatric illness | |
| F62.8 | Other enduring personality changes | |
| F62.9 | Enduring personality change, unspecified | |
| F63 | Habit and impulse disorders | |
| F63.0 | Pathological gambling | |
| F63.1 | Pathological fire-setting [pyromania] | |
| F63.2 | Pathological stealing [kleptomania] | |
| F63.3 | Trichotillomania | |
| F63.8 | Other habit and impulse disorders | |
| F63.9 | Habit and impulse disorder, unspecified | |

| Medcode | Read Code | Description |
|---------|-----------|--------------------------------|
| 3881 | 1B16.00 | Agitated |
| 1996 | 1B17.00 | Depressed |
| 4824 | 1B17.11 | C/O - feeling depressed |
| 1914 | 1B1E.00 | Hallucinations |
| 9796 | 1B1U.00 | Symptoms of depression |
| 10438 | 1B1U.11 | Depressive symptoms |
| 25435 | 1BQ00 | Loss of capacity for enjoyment |
| 10015 | 1BT00 | Depressed mood |
| 8928 | 1BT11 | Low mood |
| 53148 | 1BU00 | Loss of hope for the future |
| 18575 | 1BY00 | Elevated mood |
| 100977 | 1JJ00 | Suspected depression |
| 1908 | 2257 | O/E - depressed |
| 32585 | 225C.00 | O/E - elated |
| 8766 | Eu0z.12 | [X]Symptomatic psychosis NOS |
| 15066 | F481K00 | Visual hallucinations |
| 2455 | R001.00 | [D]Hallucinations |
| 12120 | R001000 | [D]Hallucinations; auditory |
| 12064 | R001400 | [D]Visual hallucinations |
| 19916 | R001z00 | [D]Hallucinations NOS |

Affective Psychotic Disorders - Symptom Read Codes

Mood Stabilisers

• Lithium

Non-Affective Psychotic Disorders - Symptom Read Codes

| Medcode | Read Code | Description |
|---------|-----------|--|
| 26155 | 28L00 | O/E - impulsive behaviour |
| 2235 | E2C00 | Disturbance of conduct NEC |
| 2040 | E2C0.00 | Aggressive unsocial conduct disorder |
| 41599 | E2C4.00 | Mixed disturbance of conduct and emotion |
| 1914 | 1B1E.00 | Hallucinations |
| 32875 | 1BH1.00 | Grandiose delusions |
| 55479 | 1BH2.00 | Ideas of reference |
| 22643 | 1BH3.00 | Paranoid ideation |
| 15066 | F481K00 | Visual hallucinations |
| 2455 | R001.00 | [D]Hallucinations |
| 12120 | R001000 | [D]Hallucinations; auditory |
| 12064 | R001400 | [D]Visual hallucinations |
| 19916 | R001z00 | [D]Hallucinations NOS |

Antipsychotics

- Amisulpride
- Amitriptyline
- Aripiprazole
- Benperidol
- Chlorpromazine
- Chlorprothixene
- Clozapine
- Droperidol
- Flupentixol
- Fluphenaxine
- Haloperidol
- Levomepromazine
- Loxapine
- Lurasidone
- Olanzapine
- Oxpertine
- Paliperidone
- Pericyazine
- Perphenazine
- Pimozide
- Prochlorperazine
- Promazine
- Quetiapine
- Remoxipride
- Risperidone
- Sertindole
- Sulpiride
- Thioridazine
- Trifluoperazine
- Trifluperidol
- Zotepine
- Zuclopenthixol

| 19000 2251.00 O/E - panic attack 63321 8652.00 Antiphobic therapy 9125 8694.00 Anxiety management training 28925 81Hp.00 Referral for guided self-help for anxiety 25051 6030000 Acute confusional state; post traumatic 1238 E031000 Acute hysterical psychosis 22117 E131.00 Acute hysterical psychosis 22117 E130.00 Psychogenic stupor 9686 E200 Neurotic; personality and other nonpsychotic disorders 636 E200.00 Anxiety state unspecified 4069 E200100 Panic disorder 4659 E200200 Anxiety state unspecified 4659 E200200 Anxiety state NOS 2188 E20100 Hysteria 41572 E200400 Chronic anxiety 4534 E200200 Anxiety state NOS 2188 E20100 Hysteria 41572 E200400 Hysteria 41574 E200200 Anxiety state NOS 2 | Medcode | Read Code | Description |
|--|---------|-----------|------------------------------|
| 63521 8G52.00 Antiphobic therapy 9125 8G94.00 Anxiety management training 28925 8HPp.00 Referral for guided self-help for anxiety 25051 E030000 Acute confusional state; post traumatic 61238 E031000 Subacute confusional state; post traumatic 29937 E131.00 Acute hysterical psychosis 22117 E13y000 Psychogenic stupor 9686 E200 Neurotic; personality and other nonpsychotic disorders 636 E200.00 Anxiety states 6939 E200000 Anxiety state 6939 E200101 Panic disorder 4652 E200100 Generalised anxiety disorder 655 E200300 Anxiety with depression 1758 E200400 Chronic anxiety 4634 E200500 Recurrent anxiety 4534 E201000 Hysteria 41572 E201000 Hysteria lbindness 44739 E201200 Hysterial selfied 34438 E201300 Hysterical bindness | 19000 | 225J.00 | |
| 9125 8694.00 Anxiety management training 28925 81Hp.00 Referral for guided self-help for anxiety 25051 E030000 Acute confusional state; post traumatic 61238 E031000 Subacute confusional state; post traumatic 29937 E131.00 Acute hysterical psychosis 22117 E139000 Psychogenic stupor 9686 E200 Neurotic jersonality and other nonpsychotic disorders 636 E200.00 Anxiety state unspecified 4069 E200100 Panic disorder 4659 E200200 Generalised anxiety disorder 655 E200300 Anxiety state NOS 21758 E200400 Chronic anxiety 4634 E200500 Recurrent anxiety 4534 E201000 Hysteria 41572 E201000 Hysteria 41572 E201000 Hysteria anspecified 3438 E201200 Hysterical paralysis 16484 E201500 Hysterical analysis 16484 E201500 Hysterical anaysis< | 63521 | 8G52.00 | |
| 28925 8HHp.00 Referral for guided self-help for anxiety 25051 E030000 Acute confusional state; post traumatic 61238 E031000 Subacute confusional state; post traumatic 29937 E131.00 Acute hysterical psychosis 22117 E13y000 Psychogenic stupor 9686 E200 Neurotic; personality and other nonpsychotic disorders 5249 E20.00 Anxiety state 636 E200.00 Anxiety state unspecified 4069 E200100 Panic disorder 4651 E200200 Generalised anxiety disorder 655 E200300 Anxiety with depression 1758 E200400 Chronic anxiety 4634 E200200 Recurrent anxiety 4534 E200200 Anxiety state NOS 2188 E201.00 Hysteria unspecified 41727 E201000 Hysterical bindness 44739 E201200 Hysterical bindness 44739 E201200 Hysterical paralysis 16484 E201500 Hysteric | 9125 | | |
| 25051 E030000 Acute confusional state; post traumatic 61238 E031000 Subacute confusional state; post traumatic 29937 E131.00 Acute hysterical psychosis 22117 E13y000 Psychogenic stupor 9686 E200 Neurotic, personality and other nonpsychotic disorders 636 E200.00 Anxiety states 6939 E200000 Anxiety state unspecified 4062 E200110 Panic disorder 4651 E200200 Generalised anxiety disorder 655 E200300 Anxiety with depression 1758 E200400 Chronic anxiety 4634 E200100 Recurrent anxiety 4534 E200200 Anxiety state NOS 2188 E20100 Hysteria 41572 E200300 Hysterical paralysis 14574 E20100 Hysterical paralysis 14572 E201000 Hysterical paralysis 16484 E201500 Hysterical paralysis 16484 E201500 Hysterical paralysis | 28925 | 8HHp.00 | |
| 61238 E031000 Subacute confusional state; post traumatic 29937 E131.00 Acute hysterical psychosis 22117 E13y000 Psychogenic stupor 9686 E200 Neurotic; personality and other nonpsychotic disorders 634 E200.00 Anxiety state unspecified 4059 E200100 Panic disorder 462 E200100 Anxiety state unspecified 4059 E200200 Generalised anxiety disorder 655 E200300 Anxiety state NOS 2188 E200400 Chronic anxiety 4634 E200500 Recurrent anxiety 4534 E200200 Anxiety state NOS 2188 E201.00 Hysteria 41572 E201000 Hysterical deafness 23598 E201300 Hysterical deafness 23598 E201300 Hysterical seizures 33702 E201511 Fit - hysterical 1434 E201500 Hysterical seizures 33702 E201300 Hysterical annesia 4775 </td <td>25051</td> <td></td> <td></td> | 25051 | | |
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| 9686 E200 Neurotic; personality and other nonpsychotic disorders 5249 E20.00 Anxiety states 636 E20000 Anxiety state unspecified 4069 E200100 Panic disorder 462 E200111 Panic attack 4659 E200200 Generalised anxiety disorder 655 E200300 Anxiety with depression 1758 E200400 Chronic anxiety 4634 E200500 Recurrent anxiety 4634 E200500 Recurrent anxiety 4634 E200100 Hysteria 41572 E201000 Hysteria 41572 E201000 Hysteria 41572 E20100 Hysterical bindness 44739 E201200 Hysterical tremor 3488 E201100 Hysterical paralysis 16484 E201500 Hysterical seizures 33702 E201601 Astasia - abasia; hysterical 15431 E01511 Fit - hysterical 15434 E201600 Other conversion d | 22117 | E13y000 | Psychogenic stupor |
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| 46399E201611Astasia - abasia; hysterical4143E201612Globus hystericus4269E201700Hysterical amnesia4775E201800Hysterical fugue43302E201900Multiple personality23490E201A00Dissociative reaction unspecified29322E201B00Compensation neurosis24525E201200Phantom pregnancy23354E201211Aphonia - hysterical24638E201212Ataxia - hysterical40066E201213Ganser's syndrome - hysterical1907E20200Phobia unspecified9944E202100Agoraphobia with panic attacks2300E202.11Social phobic disorders3076E202.12Phobic anxiety12838E202200Agoraphobia without mention of panic attacks16199E202300Social phobia; fear of eating in public31957E202400Social phobia; fear of public speaking18603E202500Social phobia; fear of public washing | | | · · |
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| 4775E201800Hysterical fugue43302E201900Multiple personality23490E201A00Dissociative reaction unspecified29322E201B00Compensation neurosis24525E201C00Phantom pregnancy23354E201z10Hysteria NOS4105E201z11Aphonia - hysterical24638E201z12Ataxia - hysterical40066E201z13Ganser's syndrome - hysterical1907E202.00Phobic disorders16638E20200Phobia unspecified9944E202100Agoraphobia with panic attacks2300E202.11Social phobic disorders3076E202.12Phobic anxiety12838E202200Agoraphobia without mention of panic attacks16199E202300Social phobia; fear of eating in public31957E202500Social phobia; fear of public speaking18603E202500Social phobia; fear of public washing | | | |
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| 23354E201z00Hysteria NOS4105E201z11Aphonia - hysterical24638E201z12Ataxia - hysterical40066E201z13Ganser's syndrome - hysterical1907E202.00Phobic disorders16638E202000Phobia unspecified9944E202100Agoraphobia with panic attacks2300E202.11Social phobic disorders3076E202.12Phobic anxiety12838E202000Agoraphobia without mention of panic attacks16199E202300Social phobia; fear of eating in public31957E202400Social phobia; fear of public speaking18603E202500Social phobia; fear of public washing | 24525 | | |
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| 24638E201z12Ataxia - hysterical40066E201z13Ganser's syndrome - hysterical1907E202.00Phobic disorders16638E202000Phobia unspecified9944E202100Agoraphobia with panic attacks2300E202.11Social phobic disorders3076E202.12Phobic anxiety12838E202200Agoraphobia without mention of panic attacks16199E202300Social phobia; fear of eating in public31957E202400Social phobia; fear of public speaking18603E202500Social phobia; fear of public washing | | | |
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| 3076E202.12Phobic anxiety12838E202200Agoraphobia without mention of panic attacks16199E202300Social phobia; fear of eating in public31957E202400Social phobia; fear of public speaking18603E202500Social phobia; fear of public washing | | | |
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| 31957E202400Social phobia; fear of public speaking18603E202500Social phobia; fear of public washing | - | | |
| 18603 E202500 Social phobia; fear of public washing | - | | |
| | - | | |
| 28106 E202600 Acrophobia | 28106 | E202600 | Acrophobia |
| 28938 E202700 Animal phobia | | | |

Common Mental Health Disorders – Diagnostic Read Codes

| 1723 E202800 Claustrophobia 31672 E202400 Fear of rowds 4167 E202400 Cear of phobia 1300 E202200 Deral phobia 13161 E202800 Cancer phobia 13266 E202200 Fear of death 6071 E202800 Fear of pregnancy 14729 E202200 Phobic disorder NOS 3843 E203.00 Obsessive-compulsive disorders 47365 E203000 Compulsive merosis 5678 E203100 Obsessive-compulsive disorder NOS 3861 E205.00 Neurasthenia - nervous debility 5361 E203.00 Obsessive-compulsive disorder NOS 3861 E203.00 Obsessive-compulsive disorder NOS 3861 E203.00 Neurasthenia - nervous debility 5305 E206.00 Depersonalisation syndrome 966 E207.00 Hypochondriasis 42000 E207.00 Writer's cramp neurosis 59518 E209/110 Briquet's disorder 5680 | Medcode | Read Code | Description |
|---|---------|-----------|--|
| 31672 E202900 Fear of frying 4167 E202800 Cancer phobia 2366 E202000 Pear of death 0671 E202000 Pear of pregnancy 14729 E202000 Pear of pregnancy 14729 E20200 Phobic disorder NOS 38543 E20211 Weight fixation 3208 E20300 Obsessive-compulsive disorders 47365 E203000 Obsessive-compulsive disorder NOS 38541 E20311 Anancastic neurosis 2030 E203100 Obsessive-compulsive disorder NOS 3861 E205.00 Neurasthenia - nervous debility 5355 E206.00 Depersonalisation syndrome 966 E207.00 Hypochondriasis 42000 E20y100 Somatization disorder 56341 E20y100 Somatization disorder 56351 E20y100 Wether accupational neurosis 33518 E20y200 Other neurosis disorder NOS 7171 E20x200 Nevrotis disorder NOS 14780 <td>1723</td> <td>E202800</td> <td>-</td> | 1723 | E202800 | - |
| 4167 E202400 Fear of flying 1510 E202400 Carcer phobia 2366 E202000 Fear of gregnancy 14729 E20200 Fear of pregnancy 14729 E20200 Phobic disorder NOS 38543 E202100 Obsessive-compulsive disorders 37365 E203000 Compulsive neurosis 5678 E203000 Obsessive-compulsive disorder NOS 3361 E205.00 Neurasthenia - nervous debility 5305 E206.00 Depersonalisation syndrome 966 E207.00 Hypochondriasis 42000 E20y.00 Other neurotic disorder 5321 E20y000 Somatization disorder 5471 E20y000 Other occupational neurosis 3518 E20y100 Writer's cramp neurosis 3518 E20y200 Other occupational neurosis 72171 E20y200 Other occupational neurosis 72171 E20y200 Other occupational neurosis 7311 E20y200 Other occupational neurosis | 31672 | | |
| 1510 E202800 Cancer phobia 2366 E202000 Fear of death 10390 E202000 Fear of dreath 6071 E202200 Paer of death 6071 E202200 Phobid disorder NOS 38543 E20211 Weight fixation 3208 E203000 Obsessive-compulsive disorders 47365 E203000 Obsessive-compulsive disorder NOS 3361 E20310 Obsessive-compulsive disorder NOS 3361 E205.00 Neurasthenia - nervous debility 5305 E206.00 Depersonalisation syndrome 966 E207.00 Hypochondriasis 42000 E209.00 Other neurotic disorders 5351 E209.00 Other neurosis 5421 E20y000 Writer's cramp neurosis 3585 E209.00 Other neurosis 42006 E209.00 Other neurosis 72171 E20y000 Other neurosis 4355 E209/00 Other neurosis 72171 E200.00 Neur | | | |
| 2366 E202000 Pera of death 10390 E202000 Fear of regnancy 14729 E202200 Phobic disorder NOS 38543 E20211 Weight fixation 3208 E203000 Obsessive-compulsive disorders 47365 E203000 Compulsive neurosis 5678 E203100 Obsessive-compulsive disorder NOS 3361 E205.00 Neurasthenia - nervous debility 5305 E206.00 Depersonalisation syndrome 966 E207.00 Hypochondriasis 42000 E20y.000 Somatization disorder 56341 E20y000 Somatization disorder 56341 E20y200 Other occupational neurosis 72171 E20y200 Other neurotic disorder NOS 39518 E20y200 Other neurotic disorder NOS 14780 E20c.00 Neurotic disorder NOS 14780 E20c.00 Psychogenic musculoskeletal symptoms 4256100 Psychogenic torticollis 15331 E20000 Psychogenic torticollis | | | |
| 10390 E202D00 Fear of death 6071 E202E00 Fear of pregnancy 14729 E202201 Weight fixation 3208 E203.00 Obsessive-compulsive disorders 47365 E203100 Obsessive-compulsive disorders 5678 E203100 Obsessive-compulsive disorder NOS 3361 E203200 Obsessive-compulsive disorder NOS 3361 E203200 Obsessive-compulsive disorder NOS 3361 E205.00 Neurasthenia - nervous debility 5305 E206.00 Depersonalisation syndrome 966 E207.00 Hypochondraisis 42000 E20y.00 Other neurosis 53911 E20y010 Writer's cramp neurosis 34050 E20y100 Writer's cramp neurosis 37217 E20y200 Other neurosis 43050 E20y200 Other neurotic disorder NOS 791 E20:10 Neurotic disorder NOS 791 E20:00 Psychogenic respiratory symptoms 58200 E260:00 Psychogenic respiratory sympto | | | |
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| 14729 E20200 Phobic disorder NOS 38543 E20211 Weight fixation 3208 E20300 Obsessive-compulsive disorders 47365 E203100 Obsessive-compulsive disorder NOS 2030 E203.11 Anancastic neurosis 2030 E203.10 Obsessive-compulsive disorder NOS 3361 E205.00 Neurasthenia - nervous debility 5305 E206.00 Depersonalisation syndrome 966 E207.00 Hypochondriasis 42000 E207.00 Hypochondriasis 42000 E20y.00 Somatization disorder 56941 E20y010 Writer's cramp neurosis 39518 E20y200 Other occupational neurosis 72171 E20y200 Other neurotic disorder NOS 73471 E200200 Neurotic disorder NOS 791 E202.11 Neurotic disorder NOS 791 E200.00 Psychogenic musculoskeletal symptoms 65851 E260000 Psychogenic aphonia 15035 E260200 Psychogenic aphonia | | | |
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| 3361E205.00Neurasthenia - nervous debility5305E206.00Depersonalisation syndrome966E207.00Hypochondriasis42000E20y.00Other neurotic disorders15321E20y000Somatization disorder56941E20y100Writer's cramp neurosis39518E20y200Other occupational neurosis72171E20y300Psychasthenic neurosis72171E20y200Other occupational neurosis72171E20z.00Neurotic disorder NOS14780E20z.00Neurotic disorder NOS14780E20z.00Psychogenic musculoskeletal symptoms48561E260100Psychogenic torticollis15035E260200Psychogenic torticollis15035E260100Psychogenic respiratory symptoms32034E261000Psychogenic cough47809E261200Psychogenic cough23413E261400Psychogenic any symptoms32034E261000Psychogenic aponia34664E26100Psychogenic aponia34664E26100Psychogenic aponia34664E26100Psychogenic aponia34664E26100Psychogenic arespiratory symptom NOS29448E262.00Psychogenic cardiovascular symptoms15224E26200Cardiac neurosis15284E26200Psychogenic cardiovascular symptom S15295E263000Psychogenic cardiovascular symptom S15294E26300Psychogenic skin symptoms15295< | | | |
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| 2871E264200Cyclical vomiting - psychogenic15371E264300Psychogenic diarrhoea10158E264311Spurious diarrhoea3869E264400Psychogenic dyspepsia15939E264500Psychogenic constipation | 37695 | E264000 | Psychogenic aerophagy |
| 15371E264300Psychogenic diarrhoea10158E264311Spurious diarrhoea3869E264400Psychogenic dyspepsia15939E264500Psychogenic constipation | 4963 | E264.11 | Globus abdominalis |
| 10158E264311Spurious diarrhoea3869E264400Psychogenic dyspepsia15939E264500Psychogenic constipation | 2871 | E264200 | Cyclical vomiting - psychogenic |
| 3869E264400Psychogenic dyspepsia15939E264500Psychogenic constipation | 15371 | E264300 | Psychogenic diarrhoea |
| 15939 E264500 Psychogenic constipation | 10158 | E264311 | |
| 15939 E264500 Psychogenic constipation | 3869 | E264400 | Psychogenic dyspepsia |
| | | | |
| | 71437 | E264z00 | Psychogenic gastrointestinal tract symptom NOS |

| Medcode | Read Code | Description |
|----------------|--------------------|---|
| 68379 | E265.00 | Psychogenic genitourinary tract symptoms |
| 20109 | E265100 | Psychogenic vaginismus |
| 44547 | E265200 | Psychogenic dysmenorrhea |
| 55781 | E265300 | Psychogenic dysuria |
| 73547 | E265z00 | Psychogenic genitourinary tract symptom NOS |
| 89237 | E267.00 | Psychogenic symptom of special sense organ |
| 62400 | E26y.00 | Other psychogenic malfunction |
| 96391 | E26yz00 | Other psychogenic malfunction NOS |
| 5067 | E26z.00 | Psychosomatic disorder NOS |
| 40311 | E278.00 | Psychalgia |
| 53766 | E278000 | Psychogenic pain unspecified |
| 45205 | E278200 | Psychogenic backache |
| 54373 | E278z00 | Psycholgia NOS |
| 24847 | E283100 | Acute posttrauma stress state |
| 20802 | E28z.12 | Flying phobia |
| 27742 | E28z.13 | Stage fright |
| 62193 | E292300 | Specific academic or work inhibition |
| 67304 | E292300 | Specific academic of work inhibition |
| 28302 | E292311 | Specific work inhibition |
| 32387 | E29y100 | Other post-traumatic stress disorder |
| 50106 | E299100 | Other specified neuroses or other mental disorders |
| 42410 | E2z00 | Neuroses or other mental disorder NOS |
| 15220 | E2200 Eu34114 | [X]Persistant anxiety depression |
| 23808 | Eu34114 Eu400 | [X]Neurotic; stress - related and somoform disorders |
| 9386 | Eu400 Eu40.00 | [X]Phobic anxiety disorders |
| 2571 | Eu40.00 | [X]Agoraphobia |
| 16729 | Eu40000 Eu40011 | [X]Agoraphobia without history of panic disorder |
| 14890 | Eu40011 Eu40012 | [X]Panic disorder with agoraphobia |
| 14890 | Eu40012 Eu40100 | [X]Social phobias |
| 42788 | Eu40100 Eu40112 | [X]Social neurosis |
| 9785 | Eu40112 Eu40200 | [X]Specific (isolated) phobias |
| 67965 | Eu40200 Eu40211 | [X]Acrophobia |
| 18248 | Eu40211 Eu40212 | [X]Animal phobias |
| 11280 | Eu40212 Eu40213 | |
| 12635 | Eu40213 Eu40214 | [X]Claustrophobia [X]Simple phobia |
| | | |
| 12508 27685 | Eu40300 Eu40y00 | [X]Needle phobia [X]Other phobic anxiety disorders |
| 34064 | Eu40y00 Eu40z00 | [X]Phobic anxiety disorder; unspecified |
| 7222 | Eu40200 Eu40z11 | [X]Phobia NOS |
| 67898 | Eu40211 Eu40z12 | [X]Phobic state NOS |
| 5385 | Eu40212 Eu41.00 | [X]Other anxiety disorders |
| 8205 | Eu41.00 Eu41000 | [X]Panic disorder [episodic paroxysmal anxiety] |
| 6408 | Eu41000 Eu41011 | [X]Panic attack |
| 4081 | | |
| 10344 | Eu41012 | [X]Panic state [X]Generalized anxiety disorder |
| 962 | Eu41100 Eu41111 | [X]Anxiety neurosis |
| 35825 | Eu41111 Eu41112 | [X]Anxiety reaction |
| 50191 | Eu41112 Eu41113 | [X]Anxiety reaction [X]Anxiety state |
| 11913 | Eu41115 Eu41200 | [X]Mixed anxiety and depressive disorder |
| 7749 | Eu41200 | [X]Mild anxiety depression |
| 44321 | Eu41211 Eu41300 | [X]Other mixed anxiety disorders |
| 24066 | Eu41300 Eu41y00 | [X]Other specified anxiety disorders |
| 24066 28167 | Eu41y00 Eu41y11 | [X]Anxiety hysteria |
| 23838 | - | [X]Anxiety hysteria [X]Anxiety disorder; unspecified |
| | Eu41z00 | [X]Anxiety disorder; unspecified [X]Anxiety NOS |
| 25638 | Eu41z11 | |

| Medcode | Read Code | Description |
|---------|--------------------|--|
| 5304 | Eu42.00 | [X]Obsessive - compulsive disorder |
| 24251 | Eu42000 | [X]Predominantly obsessional thoughts or ruminations |
| 21836 | Eu42100 | [X]Predominantly compulsive acts [obsessional rituals] |
| 20634 | Eu42.11 | [X]Anankastic neurosis |
| 22019 | Eu42.12 | [X]Obsessive-compulsive neurosis |
| 18399 | Eu42200 | [X]Mixed obsessional thoughts and acts |
| 38809 | Eu42y00 | [X]Other obsessive-compulsive disorders |
| 22721 | Eu42z00 | [X]Obsessive-compulsive disorder; unspecified |
| 7813 | Eu43015 | [X]Psychic shock |
| 4171 | Eu43100 | [X]Post - traumatic stress disorder |
| 32182 | Eu43111 | [X]Traumatic neurosis |
| 101785 | Eu43300 | [X]Acute post-traumatic stress disorder follow military comb |
| 101725 | Eu43300 | [X]Chron post-traumatic stress disorder follow military comb |
| 22136 | Eu44.00 | [X]Dissociative [conversion] disorders |
| 35311 | Eu44.00 Eu44000 | [X]Dissociative amnesia |
| 52161 | | |
| | Eu44100 | [X]Dissociative fugue |
| 27588 | Eu44.11 | [X]Conversion hysteria [X]Conversion reaction |
| 28168 | Eu44.12 Eu44.13 | |
| 40994 | | [X]Hysteria |
| 39826 | Eu44.14 | [X]Hysterical psychosis |
| 56141 | Eu44200 | [X]Dissociative stupor |
| 39747 | Eu44300 | [X]Trance and possession disorders |
| 34978 | Eu44400 | [X]Dissociative motor disorders |
| 12147 | Eu44411 | [X]Psychogenic aphonia |
| 18801 | Eu44412 | [X]Psychogenic dysphonia |
| 56966 | Eu44500 | [X]Dissociative convulsions |
| 11354 | Eu44511 | [X]Pseudoseizures |
| 27633 | Eu44600 | [X]Dissociative anaesthesia and sensory loss |
| 50121 | Eu44611 | [X]Psychogenic deafness |
| 88758 | Eu44700 | [X]Mixed dissociative [conversion] disorders |
| 64166 | Eu44y00 | [X]Other dissociative [conversion] disorders |
| 46567 | Eu44y11 | [X]Ganser's syndrome |
| 39919 | Eu44y12 | [X]Multiple personality |
| 16988 | Eu44y13 | [X]Psychogenic confusion |
| 68259 | Eu44y14 | [X]Psychogenic twilight state |
| 48906 | Eu44z00 | [X]Dissociative [conversion] disorder; unspecified |
| 18049 | Eu45.00 | [X]Somatoform disorders |
| 24439 | Eu45000 | [X]Somatization disorder |
| 23704 | Eu45011 | [X]Multiple psychosomatic disorder |
| 59682 | Eu45012 | [X]Briquet's syndrome |
| 57877 | Eu45100 | [X]Undifferentiated somatoform disorder |
| 34735 | Eu45111 | [X]Undifferentiated psychosomatic disorder |
| 7537 | Eu45200 | [X]Hypochondriacal disorder |
| 12626 | Eu45211 | [X]Body dysmorphic disorder |
| 30680 | Eu45212 | [X]Dysmorphophobia nondelusional |
| 24264 | Eu45213 | [X]Hypochondriacal neurosis |
| 10870 | Eu45214 | [X]Hypochondriasis |
| 66806 | Eu45215 | [X]Nosophobia |
| 41038 | Eu45300 | [X]Somatoform autonomic dysfunction |
| 44269 | Eu45311 | [X]Cardiac neurosis |
| 32632 | Eu45312 | [X]Da Costa's syndrome |
| 63259 | Eu45313 | [X]Gastric neurosis |
| 50793 | Eu45314 | [X]Neurocirculatory asthenia |
| 12715 | Eu45314 | [X]Psychogenic cough |
| 43316 | Eu45310 | [X]Psychogenic diarrhoea |
| 42210 | LU4J31/ | ראו אירויטצבוויר מומדווטבמ |

| Medcode | Read Code | Description |
|---------|--------------------|--|
| 16714 | Eu45318 | [X]Psychogenic dyspepsia |
| 53122 | Eu45318 | [X]Psychogenic dysuria |
| 47698 | Eu45319 | [X]Psychogenic flatulence |
| 53737 | Eu45320 Eu45321 | [X]Psychogenic hiccough |
| | | |
| 12830 | Eu45322 | [X]Psychogenic hyperventilat |
| 17081 | Eu45323 | [X]Psychogenic freq micturit |
| 16560 | Eu45324 | [X]Psychogenic IBS |
| 93067 | Eu45325 | [X]Psychogenic pylorospasm |
| 30179 | Eu45400 | [X]Persistent somatoform pain disorder |
| 54382 | Eu45411 | [X]Psychalgia |
| 38521 | Eu45412 | [X]Psychogenic backache |
| 29329 | Eu45413 | [X]Psychogenic headache |
| 36040 | Eu45414 | [X]Somatoform pain disorder |
| 12453 | Eu45500 | [X]Globus pharyngeus |
| 100086 | Eu45511 | [X]Globus hystericus |
| 62002 | Eu45y00 | [X]Other somatoform disorders |
| 46925 | Eu45y11 | [X]Psychogenic dysmenorrhoea |
| 20906 | Eu45y12 | [X]Globus hystericus |
| 16679 | Eu45y13 | [X]Psychogenic pruritis |
| 36009 | Eu45y14 | [X]Psychogenic torticollis |
| 48671 | Eu45z00 | [X]Somatoform disorder; unspecified |
| 19242 | Eu45z11 | [X]Psychosomatic disorder NOS |
| 28090 | Eu46.00 | [X]Other neurotic disorders |
| 16561 | Eu46000 | [X]Neurasthenia |
| 9656 | Eu46011 | [X]Fatigue syndrome |
| 9265 | Eu46100 | [X]Depersonalization - derealization syndrome |
| 44331 | Eu46y00 | [X]Other specified neurotic disorders |
| 100116 | Eu46y11 | [X]Briquet's disorder |
| 47367 | Eu46y12 | [X]Dhat syndrome |
| 11339 | Eu46y13 | [X]Occupational neurosis; including writer's cramp |
| 61753 | Eu46y14 | [X]Psychasthenia |
| 90597 | Eu46y15 | [X]Psychasthenia neurosis |
| 44586 | Eu46y16 | [X]Psychogenic syncope |
| 49628 | Eu46z00 | [X]Neurotic disorder; unspecified |
| 21431 | Eu46z11 | [X]Neurosis NOS |
| 37089 | Eu52611 | [X]Psychogenic dyspareunia |
| 99609 | ZS7C700 | Post-traumatic mutism |
| 2923 | 62T1.00 | Puerperal depression |
| 44848 | 8BK0.00 | Depression management programme |
| 32841 | 8HHq.00 | Referral for guided self-help for depression |
| 12399 | 9H90.00 | Depression annual review |
| 12399 | 9H91.00 | Depression medication review |
| 30405 | 9H91.00 9H92.00 | Depression interim review |
| 42931 | | |
| - | 9HA0.00 | On depression register |
| 44936 | 9HA1.00 | Removed from depression register |
| 96995 | 9kQ00 | On full dose long term treatment depression - enh serv admin |
| 2114 | E03y300 | Unspecified puerperal psychosis |
| 2560 | E1112 | Depressive psychoses |
| 10610 | E112.00 | Single major depressive episode |
| 5879 | E112000 | Single major depressive episode; unspecified |
| 6546 | E112100 | Single major depressive episode; mild |
| 6950 | E112.11 | Agitated depression |
| 595 | E112.12 | Endogenous depression first episode |
| 34390 | E112.13 | Endogenous depression first episode |
| 16506 | E112.14 | Endogenous depression |

| Medcode | Read Code | Description |
|---------|-----------|--|
| 15155 | E112200 | Single major depressive episode; moderate |
| 15219 | E112300 | Single major depressive episode; severe; without psychosis |
| 43324 | E112500 | Single major depressive episode; partial or unspec remission |
| 7011 | E112z00 | Single major depressive episode NOS |
| 15099 | E113.00 | Recurrent major depressive episode |
| 6932 | E113000 | Recurrent major depressive episodes; unspecified |
| 35671 | E113100 | Recurrent major depressive episodes; mild |
| 29342 | E113.11 | Endogenous depression - recurrent |
| 14709 | E113200 | Recurrent major depressive episodes; moderate |
| 25697 | E113200 | Recurrent major depressive episodes; severe; no psychosis |
| 56273 | E113500 | Recurrent major depressive episodes; severe, no psychosis |
| 6482 | E113700 | Recurrent depression |
| 25563 | E113700 | Recurrent major depressive episode NOS |
| 10825 | E113200 | Seasonal affective disorder |
| | | |
| 27491 | E11y200 | Atypical depressive disorder |
| 3489 | E11z100 | Rebound mood swings |
| 9183 | E11z200 | Masked depression |
| 1055 | E135.00 | Agitated depression |
| 1131 | E204.00 | Neurotic depression reactive type |
| 2639 | E204.11 | Postnatal depression |
| 10455 | E211200 | Depressive personality disorder |
| 1533 | E290.00 | Brief depressive reaction |
| 36246 | E290z00 | Brief depressive reaction NOS |
| 16632 | E291.00 | Prolonged depressive reaction |
| 324 | E2B00 | Depressive disorder NEC |
| 2972 | E2B0.00 | Postviral depression |
| 4323 | E2B1.00 | Chronic depression |
| 49879 | Eu15500 | [X]Mental/behav dis oth stims inc caffeine: psychotic dis |
| 5726 | Eu300 | [X]Mood - affective disorders |
| 4639 | Eu32.00 | [X]Depressive episode |
| 9055 | Eu32000 | [X]Mild depressive episode |
| 18510 | Eu32100 | [X]Moderate depressive episode |
| 7604 | Eu32.11 | [X]Single episode of depressive reaction |
| 11717 | Eu32.12 | [X]Single episode of psychogenic depression |
| 9211 | Eu32.13 | [X]Single episode of reactive depression |
| 9667 | Eu32200 | [X]Severe depressive episode without psychotic symptoms |
| 41989 | Eu32211 | [X]Single episode agitated depressn w'out psychotic symptoms |
| 22806 | Eu32212 | [X]Single episode major depression w'out psychotic symptoms |
| 59386 | Eu32213 | [X]Single episode vital depression w'out psychotic symptoms |
| 10667 | Eu32400 | [X]Mild depression |
| 98346 | Eu32500 | [X]Major depression; mild |
| 98252 | Eu32600 | [X]Major depression; moderately severe |
| 98414 | Eu32700 | [X]Major depression; severe without psychotic symptoms |
| 103677 | Eu32B00 | [X]Antenatal depression |
| 6854 | Eu32y00 | [X]Other depressive episodes |
| 10720 | Eu32y11 | [X]Atypical depression |
| 56609 | Eu32y12 | [X]Single episode of masked depression NOS |
| 2970 | Eu32z00 | [X]Depressive episode; unspecified |
| 543 | Eu32z11 | [X]Depression NOS |
| 3291 | Eu32z12 | [X]Depressive disorder NOS |
| 28248 | Eu32z12 | [X]Prolonged single episode of reactive depression |
| 5987 | Eu32z13 | [X]Reactive depression NOS |
| 3292 | Eu32.00 | [X]Recurrent depressive disorder |
| | | [X]Recurrent depressive disorder; current episode mild |
| 8851 | Eu33000 | [X]Recurrent depressive disorder; current episode mild [X]Recurrent depressive disorder; current episode moderate |
| 19696 | Eu33100 | [A]necurrent depressive disorder; current episode moderate |

| Medcode | Read Code | Description | |
|---------|-----------|--|--|
| 8902 | Eu33.11 | [X]Recurrent episodes of depressive reaction | |
| 28756 | Eu33.12 | [X]Recurrent episodes of psychogenic depression | |
| 8826 | Eu33.13 | [X]Recurrent episodes of reactive depression | |
| 29784 | Eu33.14 | [X]Seasonal depressive disorder | |
| 29520 | Eu33.15 | [X]SAD - Seasonal affective disorder | |
| 33469 | Eu33200 | [X]Recurr depress disorder cur epi severe without psyc sympt | |
| 11329 | Eu33211 | [X]Endogenous depression without psychotic symptoms | |
| 11252 | Eu33212 | [X]Major depression; recurrent without psychotic symptoms | |
| 73991 | Eu33214 | [X]Vital depression; recurrent without psychotic symptoms | |
| 47731 | Eu33y00 | [X]Other recurrent depressive disorders | |
| 44300 | Eu33z00 | [X]Recurrent depressive disorder; unspecified | |
| 36616 | Eu33z11 | [X]Monopolar depression NOS | |
| 42857 | Eu34.00 | [X]Persistent mood affective disorders | |
| 21540 | Eu34000 | [X]Cyclothymia | |
| 54848 | Eu34012 | [X]Cycloid personality | |
| 7953 | Eu34100 | [X]Dysthymia | |
| 8584 | Eu34111 | [X]Depressive neurosis | |
| 7737 | Eu34113 | [X]Neurotic depression | |
| 15220 | Eu34114 | [X]Persistant anxiety depression | |
| 50243 | Eu34y00 | [X]Other persistent mood affective disorders | |
| 39767 | Eu34z00 | [X]Persistent mood affective disorder; unspecified | |
| 28008 | Eu3y.00 | [X]Other mood affective disorders | |
| 50998 | Eu3y000 | [X]Other single mood affective disorders | |
| 30688 | Eu3y011 | [X]Mixed affective episode | |
| 29921 | Eu3y100 | [X]Other recurrent mood affective disorders | |
| 19054 | Eu3y111 | [X]Recurrent brief depressive episodes | |
| 29579 | Eu3yy00 | [X]Other specified mood affective disorders | |
| 37090 | Eu3z.00 | [X]Unspecified mood affective disorder | |
| 24927 | Eu53.00 | [X]Mental and behav disorders assoc with the puerperium NEC | |
| 40224 | Eu53000 | [X]Mild mental/behav disorder assoc with the puerperium NEC | |
| 13307 | Eu53011 | [X]Postnatal depression NOS | |
| 4979 | Eu53012 | [X]Postpartum depression NOS | |
| 40500 | Eu53100 | [X]Severe mental and behav disorder assoc wth puerperium NEC | |
| 17614 | Eu53111 | [X]Puerperal psychosis NOS | |
| 23642 | Eu53z00 | [X]Puerperal mental disorder; unspecified | |
| 32845 | Eu92000 | [X]Depressive conduct disorder | |
| 46756 | L184.00 | Mental disorders in pregnancy; childbirth and the puerperium | |
| 103283 | L184200 | Mental disorder in the puerperium - baby delivered | |
| 109465 | L184300 | Mental disorder during pregnancy - baby not yet delivered | |
| 100628 | L184400 | Mental disorder in puerperium - baby previously delivered | |

Common Mental Health Disorders – ICD-10 Codes

| ICD-10 Code | Description |
|-------------|--|
| F40 | Phobic anxiety disorders |
| F40.0 | Agoraphobia |
| F40.1 | Social phobias |
| F40.2 | Specific (isolated) phobias |
| F40.8 | Other phobic anxiety disorders |
| F40.9 | Phobic anxiety disorder, unspecified |
| F41 | Other anxiety disorders |
| F41.0 | Panic disorder [episodic paroxysmal anxiety] |
| F41.1 | Generalized anxiety disorder |
| F41.2 | Mixed anxiety and depressive disorder |
| F41.3 | Other mixed anxiety disorders |
| F41.8 | Other specified anxiety disorders |
| F41.9 | Anxiety disorder, unspecified |
| F42 | Obsessive-compulsive disorder |
| F42.0 | Predominantly obsessional thoughts or ruminations |
| F42.1 | Predominantly compulsive acts [obsessional rituals] |
| F42.2 | Mixed obsessional thoughts and acts |
| F42.8 | Other obsessive-compulsive disorders |
| F42.9 | Obsessive-compulsive disorder, unspecified |
| F43.1 | Post-traumatic stress disorder |
| F43.2 | Adjustment disorders |
| F43.8 | Other reactions to severe stress |
| F43.9 | Reaction to severe stress, unspecified |
| F44 | Dissociative [conversion] disorders |
| F44.0 | Dissociative (conversion) disorders |
| F44.1 | Dissociative fugue |
| F44.2 | Dissociative rugue |
| F44.3 | Trance and possession disorders |
| F44.4 | Dissociative motor disorders |
| F44.5 | Dissociative convulsions |
| F44.6 | Dissociative anaesthesia and sensory loss |
| F44.7 | Mixed dissociative [conversion] disorders |
| F44.8 | Other dissociative [conversion] disorders |
| F44.9 | Dissociative [conversion] disorder, unspecified |
| F45 | Somatoform disorders |
| F45.0 | Somatization disorder |
| F45.1 | Undifferentiated somatoform disorder |
| F45.2 | Hypochondriacal disorder |
| F45.3 | Somatoform autonomic dysfunction |
| F45.4 | Persistent somatoform pain disorder |
| F45.8 | Other somatoform disorders |
| F45.9 | Somatoform disorder, unspecified |
| F48 | Other neurotic disorders |
| F48.0 | Neurasthenia |
| F48.1 | Depersonalization-derealization syndrome |
| F48.8 | Other specified neurotic disorders |
| F48.9 | Neurotic disorder, unspecified |
| F32 | Depressive episode |
| F32.0 | Mild depressive episode |
| F32.1 | Moderate depressive episode |
| F32.2 | Severe depressive episode without psychotic symptoms |
| F32.2 | Severe depressive episode with psychotic symptoms |
| F32.5 | Other depressive episode with psycholic symptoms |
| 1'32.0 | |

| ICD-10 Code | Description |
|-------------|--|
| F32.9 | Depressive episode, unspecified |
| F33 | Recurrent depressive disorder |
| F33.0 | Recurrent depressive disorder, current episode mild |
| F33.1 | Recurrent depressive disorder, current episode moderate |
| F33.2 | Recurrent depressive disorder, current episode severe without psychotic symptoms |
| | Recurrent depressive disorder, current episode severe with |
| F33.3 | psychotic symptoms |
| F33.8 | Other recurrent depressive disorders |
| F33.9 | Recurrent depressive disorder, unspecified |
| F34 | Persistent mood [affective] disorders |
| F34.0 | Cyclothymia |
| F34.1 | Dysthymia |
| F34.8 | Other persistent mood [affective] disorders |
| F34.9 | Persistent mood [affective] disorder, unspecified |
| F38 | Other mood [affective] disorders |
| F38.0 | Other single mood [affective] disorders |
| F38.1 | Other recurrent mood [affective] disorders |
| F38.8 | Other specified mood [affective] disorders |
| F39 | Unspecified mood [affective] disorder |

Depression – Symptom Read Codes

| Medcode | Read Code | Description |
|---------|-----------|--------------------------------|
| 1996 | 1B17.00 | Depressed |
| 4824 | 1B17.11 | C/O - feeling depressed |
| 2930 | 1B17.12 | C/O - feeling unhappy |
| 8063 | 1B1I111 | C/O weepiness |
| 9796 | 1B1U.00 | Symptoms of depression |
| 10438 | 1B1U.11 | Depressive symptoms |
| 6021 | 1BO00 | Mood swings |
| 25435 | 1BQ00 | Loss of capacity for enjoyment |
| 10015 | 1BT00 | Depressed mood |
| 8928 | 1BT11 | Low mood |
| 53148 | 1BU00 | Loss of hope for the future |
| 100977 | 1JJ00 | Suspected depression |

Antidepressants

- Agomelatine
- Amitriptyline
- Citalopram
- Clomipramine
- Dosulepin
- Doxepin
- Duloxetine
- Escitalopram
- Fluoxetine
- Flupentixol
- Fluvoxamine
- Imipramine
- Isocarboxazid
- Lofepramine
- Mianserin
- Mirtazapine
- Moclobemide
- Nortriptyline
- Paroxetine
- Phenelzine
- Reboxetine
- Sertraline
- Tranylcypromine
- Trazodone
- Trifluoperazine
- Trimipramine
- Tryptophan

• Venlafaxine

Anxiety – Symptom Read Codes

| Medcode | Read Code | Description |
|---------|-----------|-----------------------------|
| 29608 | 1B12.00 | 'Nerves' - nervousness |
| | | |
| 3586 | 1B12.11 | 'Nerves' |
| 514 | 1B12.12 | Tension - nervous |
| 131 | 1B13.00 | Anxiousness |
| 5902 | 1B13.11 | Anxiousness - symptom |
| 93401 | 1B13.12 | Anxious |
| 2585 | 1B14.11 | Tenseness - symptom |
| 5347 | 1B1H.11 | Fear |
| 11890 | 1B1V.00 | C/O - panic attack |
| 18494 | 1Ba0.00 | Obsessional thoughts |
| 18672 | 1Bb00 | Specific fear |
| 22654 | 1P300 | Compulsive behaviour |
| 26251 | 1S100 | Flashbacks |
| 13124 | 2258 | O/E - anxious |
| 8725 | 2259 | O/E - nervous |
| 1582 | E205.11 | Nervous exhaustion |
| 2509 | R2y2.00 | [D]Nervousness |
| 17853 | R2y2.11 | [D]Nerves |
| 10723 | R2y2.12 | [D]Nervous tension |
| 22159 | Z4I7.00 | Acknowledging anxiety |
| 62935 | Z4I7100 | Recognising anxiety |
| 28381 | Z4I7200 | Alleviating anxiety |
| 26295 | Z4I7211 | Reducing anxiety |
| 11267 | Z7CG400 | Flashbacks |
| 53526 | Z7CG500 | Reliving traumatic memories |

Anxiolytics

- Alprazolam
- Bromazepam
- Buspirone
- Chlordiazepoxide
- Chlormezanone
- Chlordiazepoxide
- Clobazam
- Diazepam
- Flurazepam
- Hydroxyzine
- Ketazolam
- Lorazepam
- Medazepam
- Meprobamate
- Midazolam
- Oxazepam
- Prazepam
- Trazadone

Appendix 10: Tests For Overdispersion

| | Likelihood Ratio Test Statistic (chi-bar^2) | p Value |
|---------|--|---------|
| Model 1 | 4.1 x 10 ⁻⁷ | 0.500 |
| Model 2 | 8.25 x 10 ⁻⁸ | 0.499 |
| Model 3 | 1.41 x 10 ⁻¹¹ | 1.000 |

<u>Conclusion</u>: as the p-values from the likelihood ratio tests of each model are >0.05, the data is not overdispersed, meaning that poisson regression models are appropriate.

Appendix 11: Exclusion Codes for Antidepressants

Eating Disorders - Diagnostic Read Codes

| Medcode | Read Code | Description | |
|---------|-----------|--|--|
| 8027 | 1467 | H/O: anorexia nervosa | |
| 11612 | 8HTN.00 | Referral to eating disorders clinic | |
| 95883 | 9Nk9.00 | Seen in eating disorder clinic | |
| 2135 | E271.00 | Anorexia nervosa | |
| 7743 | E275.00 | Other and unspecified non-organic eating disorders | |
| 44544 | E275000 | Unspecified non-organic eating disorder | |
| 4377 | E275100 | Bulimia (non-organic overeating) | |
| 11608 | E275111 | Compulsive eating disorder | |
| 4835 | E275200 | Pica | |
| 61236 | E275y00 | Other specified non-organic eating disorder | |
| 32892 | E275z00 | Non-organic eating disorder NOS | |
| 6159 | Eu50.00 | [X]Eating disorders | |
| 30570 | Eu50000 | [X]Anorexia nervosa | |
| 34929 | Eu50100 | [X]Atypical anorexia nervosa | |
| 9581 | Eu50200 | [X]Bulimia nervosa | |
| 6583 | Eu50211 | [X]Bulimia NOS | |
| 96475 | Eu50212 | [X]Hyperorexia nervosa | |
| 33863 | Eu50300 | [X]Atypical bulimia nervosa | |
| 39383 | Eu50400 | [X]Overeating associated with other psychological disturbncs | |
| 17439 | Eu50411 | [X]Psychogenic overeating | |
| 34995 | Eu50y00 | [X]Other eating disorders | |
| 62150 | Eu50y11 | [X]Pica in adults | |
| 17203 | Eu50y12 | [X]Psychogenic loss of appetite | |
| 36946 | Eu50z00 | [X]Eating disorder, unspecified | |
| 52580 | Eu9y300 | [X]Pica of infancy and childhood | |
| 49601 | Fy05.00 | Nocturnal sleep-related eating disorder | |
| 912 | R030.00 | [D]Anorexia | |
| 53746 | R030z00 | [D]Anorexia NOS | |
| 15235 | R036.00 | [D]Polyphagia | |
| 17642 | R036000 | [D]Excessive eating | |
| 605 | R036011 | [D]Bulimia NOS | |
| 98900 | R036100 | [D]Hyperalimentation | |
| 72870 | R036z00 | [D] Polyphagia NOS | |
| 23420 | SN42100 | Starvation | |
| 92992 | U1B3.11 | [X]Starvation | |
| 12201 | Z4B5.00 | Eating disorder counselling | |
| 67510 | ZC2CD00 | Dietary advice for eating disorder | |

Eating Disorders – Symptom Read Codes

| Medcode | Read Code | Description |
|---------|-----------|---------------------------------|
| 7608 | 1612 | Appetite loss - anorexia |
| 7744 | 1612.11 | Anorexia symptom |
| 35490 | 1614 | Excessive eating - polyphagia |
| 60373 | 1614.11 | Hyperalimentation - symptom |
| 31227 | 1614.12 | Polyphagia symptom |
| 26518 | 1FF00 | Binge eating |
| 108164 | 1JZ00 | Suspected binge eating disorder |

Eating Disorders - ICD-10 Codes

| ICD-10 Code | Description |
|-------------|---|
| F50 | Eating disorders |
| F50.0 | Anorexia nervosa |
| F50.1 | Atypical anorexia nervosa |
| F50.2 | Bulimia nervosa |
| F50.3 | Atypical bulimia nervosa |
| F50.4 | Overeating associated with other psychological disturbances |
| F50.5 | Vomiting associated with other psychological disturbances |
| F50.8 | Other eating disorders |
| F50.9 | Eating disorder, unspecified |

<u>OCD – Diagnostic Read Codes</u>

| Medcode | Read Code | Description |
|---------|-----------|--|
| 3208 | E203.00 | Obsessive-compulsive disorders |
| 47365 | E203.11 | Anancastic neurosis |
| 5678 | E203000 | Compulsive neurosis |
| 2030 | E203100 | Obsessional neurosis |
| 15566 | E203z00 | Obsessive-compulsive disorder NOS |
| 5304 | Eu42.00 | [X]Obsessive - compulsive disorder |
| 24251 | Eu42.11 | [X]Anankastic neurosis |
| 21836 | Eu42.12 | [X]Obsessive-compulsive neurosis |
| 20634 | Eu42000 | [X]Predominantly obsessional thoughts or ruminations |
| 22019 | Eu42100 | [X]Predominantly compulsive acts [obsessional rituals] |
| 18399 | Eu42200 | [X]Mixed obsessional thoughts and acts |
| 38809 | Eu42y00 | [X]Other obsessive-compulsive disorders |
| 22721 | Eu42z00 | [X]Obsessive-compulsive disorder, unspecified |
| 107134 | Z522600 | Flooding - obsessional compulsive disorder |

OCD – Symptom Read Codes

| Medcode | Read Code | Description |
|---------|-----------|----------------------|
| 18494 | 1Ba0.00 | Obsessional thoughts |
| 22654 | 1P300 | Compulsive behaviour |

OCD - ICD-10 Codes

| ICD-10 Code | Description |
|-------------|---|
| F42 | Obsessive-compulsive disorder |
| F42.0 | Predominantly obsessional thoughts or ruminations |
| F42.1 | Predominantly compulsive acts [obsessional rituals] |
| F42.2 | Mixed obsessional thoughts and acts |
| F42.8 | Other obsessive-compulsive disorders |
| F42.9 | Obsessive-compulsive disorder, unspecified |

Appendix 12: Models Excluding Missing Ethnicity

| | Model 1C: | Model 2C: | Model 3C: |
|-----------------------------------|---------------------|---------------------|---------------------|
| | Adjusted incidence | Adjusted incidence | Adjusted incidence |
| | rate ratio (95% CI) | rate ratio (95% CI) | rate ratio (95% CI) |
| Condition Group | | | |
| No long-term condition | 1.00 (ref) | 1.00 (ref) | 1.00 (ref) |
| Chronic condition | 1.43 (1.14-1.79)** | 1.54 (1.22-1.96)** | 1.38 (1.16-1.64)** |
| Life-limiting condition | 0.97 (0.74-1.26) | 1.11 (0.84-1.45) | 1.03 (0.84-1.26) |
| Sex | | | |
| Male | 1.00 (ref) | 1.00 (ref) | 1.00 (ref) |
| Female | 1.76 (1.44-2.14)** | 2.21 (1.79-2.73)** | 1.88 (1.62-2.18)** |
| Age at Study Start | 1.12 (1.09-1.15)** | 1.26 (1.22-1.29)** | 1.18 (1.16-1.20)** |
| Ethnicity | | | |
| White | 1.00 (ref) | 1.00 (ref) | 1.00 (ref) |
| Black | 0.81 (0.36-1.82) | 0.53 (0.17-1.66) | 0.47 (0.21-1.06) |
| South Asian | 0.55 (0.26-1.17) | 0.30 (0.10-0.94)* | 0.41 (0.21-0.80)** |
| Other Asian | 0.78 (0.25-2.43) | 1.37 (0.51-3.69) | 1.09 (0.51-2.29) |
| Other | 0.42 (0.11-1.69) | 0.00 (0.00-0.00) | 0.24 (0.06-0.96)* |
| Mixed | 1.12 (0.59-2.12) | 0.63 (0.24-1.70) | 0.82 (0.46-1.45) |
| Deprivation Status | | | |
| 1 (least deprived) | 1.00 (ref) | 1.00 (ref) | 1.00 (ref) |
| 2 | 0.90 (0.68-1.18) | 0.77 (0.56-1.04) | 0.83 (0.67-1.03) |
| 3 | 0.83 (0.62-1.11) | 0.86 (0.64-1.17) | 0.88 (0.71-1.11) |
| 4 | 0.71 (0.52-0.97)* | 0.76 (0.55-1.05) | 0.77 (0.61-0.98)* |
| 5 (most deprived) | 0.80 (0.59-1.09) | 0.96 (0.70-1.31) | 0.93 (0.74-1.17) |
| Maternal Mental Health | Conditions | | |
| None | 1.00 (ref) | 1.00 (ref) | 1.00 (ref) |
| Common mental health disorders | 1.47 (1.21-1.80)** | 1.65 (1.33-2.04)** | 1.50 (1.29-1.75)** |
| Severe mental illness | 1.43 (0.70-2.96) | 2.05 (1.00-4.19)* | 1.80 (1.08-3.00)* |
| | | | |
| Annual GP Visits | 1.08 (1.07-1.10)** | 1.06 (1.05-1.07)** | 1.08 (1.07-1.09)** |

p*≤0.05 *p*≤0.01 Model 1C: N= 22,774 Model 2C: N=22,847 Model 3C: N=22,735

Appendix 13: Sensitivity Analysis

| Group/Covariate | Supplementary Model 1: Hazard Ratio (95% CI) | Supplementary Model 2: Hazard Ratio (95% Cl) |
|-------------------------|---|---|
| Condition Group | | |
| No long-term condition | 1.00 (ref) | 1.00 (ref) |
| Chronic condition | 1.90 (1.53-2.35)** | 1.49 (1.20-1.85)** |
| Life-limiting condition | 1.62 (1.27-2.07)** | 1.38 (1.08-1.76)** |
| Sex | | |
| Male | 1.00 (ref) | 1.00 (ref) |
| Female | 1.93 (1.60-2.33)** | 1.85 (1.53-2.23)** |
| Ethnicity | | |
| White | 1.00 (ref) | 1.00 (ref) |
| Black | 0.87 (0.38-1.95) | 0.79 (0.35-1.78) |
| South Asian | 0.59 (0.28-1.25) | 0.59 (0.28-1.24) |
| Other Asian | 0.80 (0.26-2.48) | 0.76 (0.25-2.38) |
| Other | 0.40 (0.10-1.61) | 0.40 (0.10-1.60) |
| Mixed | 1.27 (0.68-2.39) | 1.28 (0.68-2.40) |
| Missing | 0.65 (0.47-0.90)* | 0.69 (0.49-0.95)* |
| Deprivation Status | | |
| 1 (least deprived) | 1.00 (ref) | 1.00 (ref) |
| 2 | 0.85 (0.66-1.11) | 0.87 (0.67-1.13) |
| 3 | 0.90 (0.68-1.18) | 0.92 (0.70-1.21) |
| 4 | 0.74 (0.55-0.99)* | 0.76 (0.56-1.02) |
| 5 (most deprived) | 0.89 (0.66-1.20) | 0.91 (0.68-1.22) |
| | | • |
| Year of Birth | 0.91 (0.89-0.93)** | 1.23 (1.19-1.27)** |

p*≤0.05 *p*≤0.01

Supplementary Model 1: adjusted for sex, ethnicity, deprivation status, year of birth and age (time-varying)

Supplementary Model 2: adjusted for sex, ethnicity, deprivation status and year of birth (age used as time-scale)

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