# **Supplementary Information**

## Submitted as additional material

## Shocked: Confronting The Decision To Accept Or Decline An Implantable Cardioverter Defibrillator (ICD)

Alison Malecki-Ketchell

Submitted in accordance with the requirements for the degree of

Doctor of Philosophy

The University of Leeds Faculty of Medicine and Health School Of Healthcare

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## 1. Scoping Review Search Strings

1i. Embase Search



OvidSP Logged in as Alison Ketchell at University of Leeds

Database(s): Embase 1996 to 2014 Week 32

Search Strategy: 28<sup>th</sup> November 2014

1		1
#	Searches	Results
1	patient*.mp.	5008599
2	adult.mp. or Adult/ or Young Adult/	3487512
3	adolescent.mp. or Adolescent/	778725
4	Adult/ or service user.mp.	3231149
5	person.mp. or Persons/	97934
6	recipient.mp.	98027
7	receive*.mp.	797180
8	people.mp. or Persons/	289653
9	1 or 2 or 3 or 4 or 5 or 6 or 7 or 8	6999166
10	card*.mp.	1104414
11	cardio*.mp.	826719
12	Tachycardia, Paroxysmal/ or tachyarrhythmi*.mp. or Anti-Arrhythmia Agents/	22058
13	Tachycardia/ or Tachycardia, Ventricular/ or Arrhythmias, Cardiac/ or tachycardi*.mp. or Ventricular Fibrillation/	133293
14	Long QT Syndrome/ or Torsades de Pointes/ or torsades.mp.	12261
15	Cardiac Pacing, Artificial/ or Pacemaker, Artificial/ or pacemaker.mp. or Arrhythmias, Cardiac/	92644
16	(sudden adj1 cardiac adj1 arrest).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword]	1530

<b></b>		n – – – 1
17	(sudden adj1 cardiac adj1 death).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword]	14689
18	(aborted adj1 sudden adj1 death).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword]	170
19	(heart adj1 arrest).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword]	33644
20	(systolic adj1 heart adj1 failure).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword]	3644
21	(cardiac adj1 failure).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword]	8735
22	(congestive adj1 cardiac adj1 failure).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword]	859
23	(dilated adj1 cardiomyopathy).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword]	14778
24	(hypertrophic adj1 cardiomyopathy).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword]	13358
25	(ischaemic adj1 cardiomyopathy).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword]	659
26	Tachycardia, Ventricular/ or Adult/ or Arrhythmias, Cardiac/ or Brugada Syndrome/ or Ventricular Fibrillation/ or Heart Arrest/ or brugada.mp. or Death, Sudden, Cardiac/	3313407
27	Romano-Ward Syndrome/ or Long QT Syndrome/ or romano-ward.mp. or Adult/	3236455

		1
28	10 or 11 or 12 or 13 or 14 or 15 or 16 or 17 or 18 or 19 or 20 or 21 or 22 or 23 or 24 or 25 or 26 or 27	4088657
29	9 and 28	3688403
30	Death, Sudden, Cardiac/ or Defibrillators, Implantable/ or cardioverter.mp. or Electric Countershock/	43203
31	(implantable adj1 cardioverter adj1 defibrillator).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword]	28855
32	(cardiac adj1 resynchronisation adj1 therapy).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword]	716
33	(complex adj1 cardiac adj1 device).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword]	2
34	(device adj1 therapy).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword]	11921
35	30 or 31 or 32 or 33 or 34	54092
36	(patient adj1 deci* adj1 mak*).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword]	5790
37	deci*.mp.	447928
38	choice.mp.	213492
39	Judgment/ or judgement.mp.	123758
40	Patient Preference/ or prefer*.mp.	288683
41	reason*.mp.	307724
42	select*.mp.	1307701
43	choose.mp. or Choice Behavior/	144616
44	result.mp.	731001

<u> </u>		1 1
45	resol*.mp.	383587
46	assess*.mp.	2582739
47	evaluat*.mp.	2525451
48	opinion.mp.	55442
49	determin*.mp.	2393824
50	view.mp.	182717
51	appraisal.mp. or Affect/	31086
52	adopt*.mp.	155813
53	select*.mp.	1307701
54	elect*.mp.	1498387
55	indicat*.mp.	2071927
56	want.mp.	20611
57	desir*.mp.	111568
58	approve.mp.	1354
59	37 or 38 or 39 or 40 or 41 or 42 or 43 or 44 or 45 or 46 or 47 or 48 or 49 or 50 or 51 or 52 or 53 or 54 or 55 or 56 or 57 or 58	9213604
60	(deci* adj1 theor*).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword]	4265
61	(deci* adj1 model).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword]	7164
62	(deci* adj1 making adj1 theor*).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword]	97
63	philosoph*.mp. or Philosophy/	31563
64	framework.mp.	132524

65	system*.mp.	2908696
66	concept*.mp.	341459
67	idea*.mp.	173052
68	principle*.mp.	147723
69	assumption*.mp.	66148
70	supposition.mp.	1112
71	premise.mp.	6969
72	60 or 61 or 62 or 63 or 64 or 65 or 66 or 67 or 68 or 69 or 70 or 71	3503182
73	influenc*.mp.	884846
74	affect*.mp.	1171635
75	effect*.mp.	4408956
76	inspir*.mp.	39461
77	impact*.mp.	728210
78	stimul*.mp.	1007585
79	encourage*.mp.	64697
80	guide*.mp.	592262
81	persuade*.mp.	1338
82	prompt*.mp.	88668
83	motivat*.mp.	100074
84	Decision Support Techniques/ or Decision Support Systems, Management/ or support*.mp. or Decision Support Systems, Clinical/	1006663
85	assist*.mp.	761591
86	aid*.mp.	232655
87	help*.mp.	536382
88	promot*.mp.	694180

89	provoke*.mp.	27109
90	caus*.mp.	1653702
91	activate*.mp.	593200
92	73 or 74 or 75 or 76 or 77 or 78 or 79 or 80 or 81 or 82 or 83 or 84 or 85 or 86 or 87 or 88 or 89 or 90 or 91	8960764
93	aspect*.mp.	767097
94	reason*.mp.	307724
95	feature*.mp.	964582
96	characteristic*.mp.	870529
97	view*.mp.	291036
98	circumstance*.mp.	48598
99	consideration*.mp.	157451
100	element*.mp.	338752
101	qualit*.mp.	1088027
102	trait*.mp.	135998
103	attribut*.mp.	229583
104	facet*.mp.	18570
105	thought*.mp.	193521
106	deliberation*.mp.	2267
107	concern*.mp.	391618
108	93 or 94 or 95 or 96 or 97 or 98 or 99 or 100 or 101 or 102 or 103 or 104 or 105 or 106 or 107	4625131
109	accept*.mp.	305883
110	uptake*.mp.	247552
111	receive*.mp.	797180

112	receipt*.mp.	12608
113	agree*.mp.	231075
114	acquiesce*.mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword]	261
115	assent*.mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword]	1032
116	accede*.mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword]	151
117	assum*.mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword]	181252
118	acknowledge*.mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword]	22290
119	allow*.mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword]	706021
120	approv*.mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword]	152692
121	commit*.mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword]	118068
122	endorse*.mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword]	15534
123	realise*.mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword]	6119

124	apply.mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword]	61020
125	109 or 110 or 111 or 112 or 113 or 114 or 115 or 116 or 117 or 118 or 119 or 120 or 121 or 122 or 123 or 124	2533850
126	refus*.mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword]	34456
127	declin*.mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword]	214479
128	reject*.mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword]	114084
129	deny.mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword]	2142
130	negate*.mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword]	4149
131	(turn adj1 down).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword]	207
132	126 or 127 or 128 or 129 or 130 or 131	364834
133	125 or 132	2809888
134	29 and 35 and 59	32901
135	72 and 92 and 108 and 133 and 134	1401

1401 citations and abstracts reviewed against inclusion and exclusion criteria and 31 saved to endnote.

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### Cinahl Search Cinahl Search 27.11.14



Thursday, November 27, 2014 6:09:39 AM

#	Query	Limiters/Expanders	Last Run Via	Results
S22	S17 AND S20 AND S21	Search modes - Boolean/Phrase	Interface - EBSCOhost Research Databases Search Screen - Advanced Search Database - CINAHL	768
S21	S1 AND S7 AND S10 AND S11	Search modes - Boolean/Phrase	Interface - EBSCOhost Research Databases Search Screen - Advanced Search Database - CINAHL	3,105
S20	S18 OR S19	Search modes - Boolean/Phrase	Interface - EBSCOhost Research Databases Search Screen - Advanced Search Database - CINAHL	302,366
S19	approv* OR commit* OR endorse* OR realis* OR apply* OR refus* OR declin* OR reject* OR deny OR negate* OR turn down	Search modes - Boolean/Phrase	Interface - EBSCOhost Research Databases Search Screen - Advanced Search Database - CINAHL	112,863
S18	accept* OR uptake* OR receive* OR agree* OR acquiesc* OR assent* OR accede* OR assume* OR acknowledge* OR allow*	Search modes - Boolean/Phrase	Interface - EBSCOhost Research Databases Search Screen - Advanced Search Database - CINAHL	208,239
S17	S12 OR S13 OR S14 OR S15 OR S16	Search modes - Boolean/Phrase	Interface - EBSCOhost Research Databases Search Screen - Advanced Search Database - CINAHL	1,659,868

S16	deliberat* OR reflect* OR contemplat* OR concern*	Search modes - Boolean/Phrase	Interface - EBSCOhost Research Databases Search Screen - Advanced Search Database - CINAHL	120,431
S15	characterist* OR featur* OR qualit* OR trait* OR attribut* OR view* OR circumstanc* OR considerat* OR element* OR facet* OR thought*	Search modes - Boolean/Phrase	Interface - EBSCOhost Research Databases Search Screen - Advanced Search Database - CINAHL	476,996
S14	Help* OR nurtur* OR promot* OR advanc* OR provok* OR caus* OR activat* OR modif* OR shape* OR aspect* OR reason*	Search modes - Boolean/Phrase	Interface - EBSCOhost Research Databases Search Screen - Advanced Search Database - CINAHL	494,621
S13	Persuade* OR sway* OR manipulate* OR induce* OR prompt* OR impels OR motivat* OR spur* OR support* OR assist* OR aid*	Search modes - Boolean/Phrase	Interface - EBSCOhost Research Databases Search Screen - Advanced Search Database - CINAHL	445,663
S12	influenc* OR factor* OR affect* OR effect* OR inspir* OR impact* OR stimul* OR encourage* OR urge* OR incite* OR guide*	Search modes - Boolean/Phrase	Interface - EBSCOhost Research Databases Search Screen - Advanced Search Database - CINAHL	1,181,371
S11	S2 OR S3 OR S4 OR S5 OR S6	Search modes - Boolean/Phrase	Interface - EBSCOhost Research Databases Search Screen - Advanced Search Database - CINAHL	160,973
S10	S8 OR S9	Search modes - Boolean/Phrase	Interface - EBSCOhost Research Databases Search Screen - Advanced Search Database - CINAHL	834,947
S9	Decision AND model* OR philosoph* OR framework OR theor* OR	Search modes - Boolean/Phrase	Interface - EBSCOhost Research Databases Search Screen	482,622

	system* OR concept* OR schem* OR idea* OR notion OR principle* OR belief*		- Advanced Search Database - CINAHL	
S8	decision OR decision making OR deci* OR choice OR judge* OR indicat* OR determin* OR prefer* OR select* OR want* OR desire*	Search modes - Boolean/Phrase	Interface - EBSCOhost Research Databases Search Screen - Advanced Search Database - CINAHL	509,577
S7	implantable cardioverter- defibrillators OR implantable medical devices OR implantable defibrillator OR Synchroni#e* OR Resynchroni#e* OR cardiac resynchroni#ation therapy OR device therapy OR pacemaker OR cardioverter OR cardioverter defibrillator OR ICD* OR CRT*	Search modes - Boolean/Phrase	Interface - EBSCOhost Research Databases Search Screen - Advanced Search Database - CINAHL	14,068
S6	LQTS OR Brugada OR Romano-ward	Search modes - Boolean/Phrase	Interface - EBSCOhost Research Databases Search Screen - Advanced Search Database - CINAHL	739
S5	dilated cardiomyopathy OR ischaemic OR hypertrophic cardiomyopathy	Search modes - Boolean/Phrase	Interface - EBSCOhost Research Databases Search Screen - Advanced Search Database - CINAHL	4,915
S4	cardiac failure OR heart failure OR systolic n1 heart failure OR conjestive n1 cardiac failure	Search modes - Boolean/Phrase	Interface - EBSCOhost Research Databases Search Screen - Advanced Search Database - CINAHL	24,154
S3	tachyarrhythmia OR tachycard* OR ventricular tachycar* OR ventricular fibrillation OR torsades OR dysrhythmi* OR	Search modes - Boolean/Phrase	Interface - EBSCOhost Research Databases Search Screen - Advanced Search Database - CINAHL	19,348

	sudden cardiac arrest OR sudden cardiac death OR aborted sudden death OR heart arrest			
S2	card* OR cardio*	Search modes - Boolean/Phrase	Interface - EBSCOhost Research Databases Search Screen - Advanced Search Database - CINAHL	140,341
S1	patient* OR adult* OR adolescent* OR young N1 adult* OR service user* OR person* OR recipient* OR reciever* OR people	Search modes - Boolean/Phrase	Interface - EBSCOhost Research Databases Search Screen - Advanced Search Database - CINAHL	1,288,695

768 citations and abstracts reviewed against inclusion and exclusion criteria

and 41 saved to endnote.

## 1iii PsycInfo Search



OvidSP Logged in as Alison Ketchell at University of Leeds

PsycARTICLES Full Text, PsycINFO 1806 to August Week 2 2014

Search Strategy:

#	Searches	Results
1	patient*.mp.	558921
2	adult.mp. or Adult/ or Young Adult/	195430
3	adolescent.mp. or Adolescent/	118680
4	Adult/ or service user.mp.	1170
5	person.mp. or Persons/	82632
6	recipient.mp.	4760
7	receive*.mp.	154337
8	people.mp. or Persons/	216844
9	1 or 2 or 3 or 4 or 5 or 6 or 7 or 8	1136886
10	card*.mp.	60280
11	cardio*.mp.	30595
12	Tachycardia, Paroxysmal/ or tachyarrhythmi*.mp. or Anti-Arrhythmia Agents/	77
13	Tachycardia/ or Tachycardia, Ventricular/ or Arrhythmias, Cardiac/ or tachycardi*.mp. or Ventricular Fibrillation/	1633
14	Long QT Syndrome/ or Torsades de Pointes/ or torsades.mp.	72
15	Cardiac Pacing, Artificial/ or Pacemaker, Artificial/ or pacemaker.mp. or Arrhythmias, Cardiac/	1396
16	(sudden adj1 cardiac adj1 arrest).mp. [mp=title, abstract, heading word, table of contents, key concepts, original title, tests & measures]	32
17	(sudden adj1 cardiac adj1 death).mp. [mp=title, abstract, heading word, table of contents, key concepts, original title, tests & measures]	299

<b></b>		
18	(aborted adj1 sudden adj1 death).mp. [mp=title, abstract, heading word, table of contents, key concepts, original title, tests & measures]	0
19	(heart adj1 arrest).mp. [mp=title, abstract, heading word, table of contents, key concepts, original title, tests & measures]	5
20	(systolic adj1 heart adj1 failure).mp. [mp=title, abstract, heading word, table of contents, key concepts, original title, tests & measures]	20
21	(cardiac adj1 failure).mp. [mp=title, abstract, heading word, table of contents, key concepts, original title, tests & measures]	109
22	(congestive adj1 cardiac adj1 failure).mp. [mp=title, abstract, heading word, table of contents, key concepts, original title, tests & measures]	6
23	(dilated adj1 cardiomyopathy).mp. [mp=title, abstract, heading word, table of contents, key concepts, original title, tests & measures]	77
24	(hypertrophic adj1 cardiomyopathy).mp. [mp=title, abstract, heading word, table of contents, key concepts, original title, tests & measures]	44
25	(ischaemic adj1 cardiomyopathy).mp. [mp=title, abstract, heading word, table of contents, key concepts, original title, tests & measures]	4
26	Tachycardia, Ventricular/ or Adult/ or Arrhythmias, Cardiac/ or Brugada Syndrome/ or Ventricular Fibrillation/ or Heart Arrest/ or brugada.mp. or Death, Sudden, Cardiac/	464
27	Romano-Ward Syndrome/ or Long QT Syndrome/ or romano-ward.mp. or Adult/	1
28	10 or 11 or 12 or 13 or 14 or 15 or 16 or 17 or 18 or 19 or 20 or 21 or 22 or 23 or 24 or 25 or 26 or 27	62518
29	9 and 28	29941
30	Death, Sudden, Cardiac/ or Defibrillators, Implantable/ or cardioverter.mp. or Electric Countershock/	226
31	(implantable adj1 cardioverter adj1 defibrillator).mp. [mp=title, abstract, heading word, table of contents, key concepts, original title, tests & measures]	155
32	(cardiac adj1 resynchronisation adj1 therapy).mp. [mp=title, abstract, heading word, table of contents, key concepts, original title, tests & measures]	1

33	(complex adj1 cardiac adj1 device).mp. [mp=title, abstract, heading word, table of contents, key concepts, original title, tests & measures]	0
34	(device adj1 therapy).mp. [mp=title, abstract, heading word, table of contents, key concepts, original title, tests & measures]	26
35	30 or 31 or 32 or 33 or 34	251
36	(patient adj1 deci* adj1 mak*).mp. [mp=title, abstract, heading word, table of contents, key concepts, original title, tests & measures]	201
37	deci*.mp.	178084
38	choice.mp.	96974
39	Judgment/ or judgement.mp.	21282
40	Patient Preference/ or prefer*.mp.	117887
41	reason*.mp.	134537
42	select*.mp.	264323
43	choose.mp. or Choice Behavior/	32655
44	result.mp.	134897
45	resol*.mp.	54282
46	assess*.mp.	578585
47	evaluat*.mp.	418168
48	opinion.mp.	27411
49	determin*.mp.	339276
50	view.mp.	125497
51	appraisal.mp. or Affect/	17628
52	adopt*.mp.	62261
53	select*.mp.	264323
54	elect*.mp.	145935
55	indicat*.mp.	502094

		1
56	want.mp.	19550
57	desir*.mp.	70675
58	approve.mp.	670
59	37 or 38 or 39 or 40 or 41 or 42 or 43 or 44 or 45 or 46 or 47 or 48 or 49 or 50 or 51 or 52 or 53 or 54 or 55 or 56 or 57 or 58	2094266
60	(deci* adj1 theor*).mp. [mp=title, abstract, heading word, table of contents, key concepts, original title, tests & measures]	2031
61	(deci* adj1 model).mp. [mp=title, abstract, heading word, table of contents, key concepts, original title, tests & measures]	654
62	(deci* adj1 making adj1 theor*).mp. [mp=title, abstract, heading word, table of contents, key concepts, original title, tests & measures]	326
63	philosoph*.mp. or Philosophy/	66832
64	framework.mp.	117915
65	system*.mp.	502846
66	concept*.mp.	358233
67	idea*.mp.	143703
68	principle*.mp.	91857
69	assumption*.mp.	62087
70	supposition.mp.	912
71	premise.mp.	7774
72	60 or 61 or 62 or 63 or 64 or 65 or 66 or 67 or 68 or 69 or 70 or 71	1088513
73	influenc*.mp.	370922
74	affect*.mp.	360120
75	effect*.mp.	1040499
76	inspir*.mp.	16847
77	impact*.mp.	235246

78	stimul*.mp.	305626
79	encourage*.mp.	47042
80	guide*.mp.	118575
81	persuade*.mp.	2286
82	prompt*.mp.	17070
83	motivat*.mp.	133816
84	Decision Support Techniques/ or Decision Support Systems, Management/ or support*.mp. or Decision Support Systems, Clinical/	466624
85	assist*.mp.	96790
86	aid*.mp.	72324
87	help*.mp.	238975
88	promot*.mp.	126294
89	provoke*.mp.	7132
90	caus*.mp.	205376
91	activate*.mp.	32889
92	73 or 74 or 75 or 76 or 77 or 78 or 79 or 80 or 81 or 82 or 83 or 84 or 85 or 86 or 87 or 88 or 89 or 90 or 91	2295844
93	aspect*.mp.	202042
94	reason*.mp.	134537
95	feature*.mp.	127918
96	characteristic*.mp.	300257
97	view*.mp.	243087
98	circumstance*.mp.	30988
99	consideration*.mp.	79275
100	element*.mp.	148444

		1
101	qualit*.mp.	281561
102	trait*.mp.	110110
103	attribut*.mp.	100752
104	facet*.mp.	13111
105	thought*.mp.	115194
106	deliberation*.mp.	2831
107	concern*.mp.	233360
108	93 or 94 or 95 or 96 or 97 or 98 or 99 or 100 or 101 or 102 or 103 or 104 or 105 or 106 or 107	1551361
109	accept*.mp.	105337
110	uptake*.mp.	10020
111	receive*.mp.	154337
112	receipt*.mp.	5044
113	agree*.mp.	67183
114	acquiesce*.mp. [mp=title, abstract, heading word, table of contents, key concepts, original title, tests & measures]	1184
115	assent*.mp. [mp=title, abstract, heading word, table of contents, key concepts, original title, tests & measures]	579
116	accede*.mp. [mp=title, abstract, heading word, table of contents, key concepts, original title, tests & measures]	109
117	assum*.mp. [mp=title, abstract, heading word, table of contents, key concepts, original title, tests & measures]	109565
118	acknowledge*.mp. [mp=title, abstract, heading word, table of contents, key concepts, original title, tests & measures]	26330
119	allow*.mp. [mp=title, abstract, heading word, table of contents, key concepts, original title, tests & measures]	108488

<b>—</b>		
120	approv*.mp. [mp=title, abstract, heading word, table of contents, key concepts, original title, tests & measures]	15472
121	commit*.mp. [mp=title, abstract, heading word, table of contents, key concepts, original title, tests & measures]	72468
122	endorse*.mp. [mp=title, abstract, heading word, table of contents, key concepts, original title, tests & measures]	16356
123	realise*.mp. [mp=title, abstract, heading word, table of contents, key concepts, original title, tests & measures]	1204
124	apply.mp. [mp=title, abstract, heading word, table of contents, key concepts, original title, tests & measures]	28404
125	109 or 110 or 111 or 112 or 113 or 114 or 115 or 116 or 117 or 118 or 119 or 120 or 121 or 122 or 123 or 124	642742
126	refus*.mp. [mp=title, abstract, heading word, table of contents, key concepts, original title, tests & measures]	11306
127	declin*.mp. [mp=title, abstract, heading word, table of contents, key concepts, original title, tests & measures]	51631
128	reject*.mp. [mp=title, abstract, heading word, table of contents, key concepts, original title, tests & measures]	30531
129	deny.mp. [mp=title, abstract, heading word, table of contents, key concepts, original title, tests & measures]	3560
130	negate*.mp. [mp=title, abstract, heading word, table of contents, key concepts, original title, tests & measures]	1444
131	(turn adj1 down).mp. [mp=title, abstract, heading word, table of contents, key concepts, original title, tests & measures]	40
132	126 or 127 or 128 or 129 or 130 or 131	97140
133	125 or 132	713395
134	29 and 35 and 59	179
L	72 and 92 and 108 and 133 and 134 citations and abstracts reviewed against inclusion and exclusion crite	13

13 citations and abstracts reviewed against inclusion and exclusion criteria and 13 (+6 for background reading) saved to endnote.

### 1iv Web Of Science Search

Web Of Science Search 28th November 2014.



Search History: All Databases

All Databases

Web of ScienceTM Core Collection

**BIOSIS Citation IndexSM** 

BIOSIS Previews®

Data Citation IndexSM

KCI-Korean Journal Database

MEDLINE®

SciELO Citation Index

S e t	Res ults	Save History Open Saved Histo	Combine Sets O AND O OR Combine	Delete Sets Select All X Delete
# 22		#21 AND #20 AND #19 AND #18 Timespan=1995-2014 Search language=Auto	Select to combine sets.	Select to delete this set.

568 citations and abstracts reviewed against inclusion and exclusion criteria

and 42 saved to endnote.

### 1v Scopus Search

Scopus

Accessed on 4.9.2014

190 citations and abstracts retrieved and reviewed and 13 saved which fulfil inclusion criteria. Earliest literature is early 1990's though most is post 2000.

Of 13 saved, 5 are duplicates of articles already retrieved, 2 were saved to print and 6 to be ordered including Lewis – not yet published (2014), Meyer and Joyce which were also retrieved in other searches

1 other article saved as discusses selection criteria for CRT – useful background information

### 2. The Mixed Methods Appraisal Tool (MMAT) Criteria

Types of mixed	Methodological quality criteria
methods	
study components or	
primary studies	
Screening questions (for all types)	<ul> <li>Are there clear qualitative and quantitative research questions (or objectives) or a clear mixed methods question (or objective)? **</li> </ul>
	(Item not considered double barrelled question as mixed methods research, qualitative and quantitative data may be integrated, and/or qualitative findings and quantitative results can be integrated).
	• Do the collected data allow address the research question (objective)? Eg consider whether the
	follow-up period is long enough for the outcome to occur (for longitudinal studies or study
	components). Further quality appraisal may be not feasible when the answer is 'No' or 'Can't tell' to one or both screening questions.
1. Qualitative	1.1. Are the sources of qualitative data (archives, documents, informants, observations) relevant to
	address the research question (objective)?
	1.2. Is the process for analyzing qualitative data relevant to address the research question
	(objective)? 1.3. Is appropriate consideration given to how findings relate to the context, e.g., the setting, in which
	the data were collected?
	1.4. Is appropriate consideration given to how findings relate to researchers' influence, e.g., through
	their interactions with participants?
2. Quantitative	2.1. Is there a clear description of the randomization (or an appropriate sequence generation)?
randomized controlled (trials)	2.2. Is there a clear description of the allocation concealment (or blinding when applicable)?
controlled (thats)	<ul><li>2.3. Are there complete outcome data (80% or above)?</li><li>2.4. Is there low withdrawal/drop-out (below 20%)?</li></ul>
3. Quantitative	3.1. Are participants (organizations) recruited in a way that minimized selection bias?
non-randomized	3.2. Are measurements appropriate (clear origin, or validity known, or standard instrument; and
	absence of contamination between groups when appropriate) regarding the
	exposure/intervention and outcomes?
	3.3. In the groups being compared (exposed vs. non-exposed; with intervention vs. without; cases vs. controls), are the participants comparable, or do researchers take into account (control for)
	the difference between these groups?
	3.4. Are there complete outcome data (80% or above), and, when applicable, an acceptable response rate (60% or above), or an acceptable follow-up rate for cohort studies (depending on
	the duration of follow-up)?
4. Quantitative	4.1. Is the sampling strategy relevant to address the quantitative research question (quantitative
descriptive	aspect of the mixed methods question)?
	4.2. Is the sample representative of the population understudy?
	<ul><li>4.3. Are measurements appropriate (clear origin, or validity known, or standard instrument)?</li><li>4.4. Is there an acceptable response rate (60% or above)?</li></ul>
5. Mixed methods	5.1. Is the mixed methods research design relevant to address the qualitative and quantitative
5. Mixed methods	research questions (or objectives), or the qualitative and quantitative aspects of the mixed
	methods question (or objective)?
	5.2. Is the integration of qualitative and quantitative data (or results**) relevant to address the research question (objective)?
	5.3. Is appropriate consideration given to the limitations associated with this integration, e.g., the
	divergence of qualitative and quantitative data (or results**) in a triangulation design?
	Criteria for the qualitative component (1.1 to 1.4), and appropriate criteria for the quantitative
	component (2.1 to 2.4, or 3.1 to 3.4, or 4.1 to 4.4), must be also applied.
	not considered as double barrelled items since in mixed methods research, (1) there may be research research) or research objectives (qualitative research), and (2) data may be integrated, and/or qualitative
	e results can be integrated

HCM TROP +VE. ? OLT + / D 9603 AF / BRADY + PAUSES DISPAGE C ENQUIRE PT. KNOLEDGE RC CONDITION (P) SYMPTOMS → ↓ WORK FT → PT + + ENGRAY / EXECUSE HANGOVER. + SOCAL × I APPEARED & DISTRACT AT X PM- MAY /MAY NOT HEP ... FROM DR PAGE \_\_\_ 11/2 tru AGO. ACKNOULDGE - RISK THOUGHT A LOT +++ @ Q.O.L. Issue ? ? BUTCHOUTS . @ OCC DI22Y. C Aske ABOUT MOS - V GRAPANIL - INFO KE POST PHE & SYAPTOMS - + RISK HORD RHYPHMS --- BUT ) TROP SENE SUGHTY MORE RISK SCHETICALLY. - RISK STRAF - LIMITATIONS TO GENERA/ SCANE - INITEO CRT ? ARTES AGANST PAST ANYTHIS - NOT HAD.

### 3. Example Of Clinic Consultation Observation Field Notes

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MERCEP MOBILE - 6 ANTY - LEDING. NEVEL SET OF DONG. MENCLISET OF DONG. MUTAT ARE CHANCES OF MARCHIG A DIFFORENCES. - MORE LIKELY & DENCAT THE MARCE	<ul> <li>U MAT ABOUT DEAB?</li> <li>HAVE OCE AST VERY UNWELL.</li> <li>REFERRED BACK DO DAVGHTER STROGUENCE.</li> </ul>
<ul> <li>Reception to Blue - 6 Auty - Leoling, NERCE CET OF DONG.</li> <li>MERCE CET OF DONG.</li> <li>MARIARE CHARGES OF MARCHOR A Differences.<sup>2</sup></li> <li>- MOLE LIKELY &amp; DENGRIT THAN MARCE YOU LIKELY</li> </ul>	<ul> <li>U MAT ABOUT DEAB?</li> <li>HAVE OCE ABT VERY UNWELL.</li> <li>AREFORDER &amp; CRAIG NOW DESTRIBUTE</li> <li>DR PARE &amp; CRAIG NOW DESTRIBUTE</li> <li>LOW RISK TI LOW DO BE NEEDED.</li> <li>WILL TI</li> </ul>
<ul> <li>Reception to Blue - 6 Auty - Leoling, Never cert of Dona.</li> <li>Microsoft Dona.</li> <li>Microsoft P IN (1) Stoudare excerase.</li> <li>(1) WHAT ARE CHANCES of MARCHAR A Differences."</li> <li>- Marchar &amp; Denicipit THM MARCE</li> </ul>	<ul> <li>I HAT ABOUT DEAB?</li> <li>HAVE ODE ADT VERY UNLELL.</li> <li>P REFERED BAEL DO DAVGHTER ESPECIENCE</li> <li>DR PARE &amp; CRAIG NOW DETECTED</li> <li>LOW RISK TI LOUID BE NEEDED.</li> </ul>
<ul> <li>Reception to Blue - 6 ANAY - LEDING.</li> <li>NEVEL RET OF DONB.</li> <li>MENCLICET OF DONB.</li> <li>MENCLICET OF DONB.</li> <li>MENCLICET OF DONB.</li> <li>MENCLICET OF DONB.</li> <li>MENCHICES OF MARCHIGA</li> <li>MENCHICES OF MARCHIGATIONS</li> <li>MENCHICES OF MARCH</li></ul>	<ul> <li>U MAT ABOUT DEAB?</li> <li>- HAVE OCE ADT VERY UNLEUL.</li> <li>(E) REFORED BAELTS DAVGHTER STREAGENCE</li> <li>- DR PARE &amp; CRAIG NOW DETECTOR</li> <li>LOW RISK TI LOUID BE NEEDED.</li> <li>WILL AT</li> <li>(C) - Warry You or security BANKET</li> </ul>
<ul> <li>Reception to Blue - 6 Away - Leoling, Nericli set off Denia.</li> <li>Mericli set off Denia.</li> <li>Modeline P IN (1) Stoudage excesse.</li> <li>(1) WHAT ARE CHARGES of MARCHOR A Differences.<sup>2</sup></li> <li>Marchine J.</li> <li>Marchine J.</li> <li>Marchine J.</li> <li>Marchine J.</li> <li>Marchine J.</li> </ul>	<ul> <li>U MAT ABOUT DEAB?</li> <li>- HAVE OCE ADT VERY UNLEUL.</li> <li>(E) REFORED BAELTS DAVGHTER STREAGENCE</li> <li>- DR PARE &amp; CRAIG NOW DETECTOR</li> <li>LOW RISK TI LOUID BE NEEDED.</li> <li>WILL AT</li> <li>(C) - Warry You or security BANKET</li> </ul>
<ul> <li>Reception to Blue - 6 ANAY - LEDING.</li> <li>NEVEL RET OF DONB.</li> <li>MENCLICET OF DONB.</li> <li>MENCLICET OF DONB.</li> <li>MENCLICET OF DONB.</li> <li>MENCLICET OF DONB.</li> <li>MENCHICES OF MARCHIGA</li> <li>MENCHICES OF MARCHIGATIONS</li> <li>MENCHICES OF MARCH</li></ul>	<ul> <li>U MAT ABOUT DEAB?</li> <li>- HAVE OCE ADT VERY UNLELL.</li> <li>B REFORED BAEL TO DAGHTER STREAGURE</li> <li>- DR PARE &amp; CRAIG HOW DETERBOD</li> <li>Low Risk TI LOUID BE NEEDED.</li> <li>WILL AT</li> <li>C - Warry You or security BANKET</li> </ul>
<ul> <li>Reception robite - 6 Auty - Leaning.</li> <li>NEVELSET OF DEALS.</li> <li>MENCLISET OF DEALS.</li> <li>MENCLISET OF DEALS.</li> <li>MENCLISET OF DEALS.</li> <li>MARCANS A</li> <li>DIFFERENCES -</li> <li>MARCANS A</li> <li>MARCANS A<td><ul> <li>I HAT ABOUT DEAB?</li> <li>HAVE OCE ACT VERY UNLELL.</li> <li>REFERED BALL DO DURINER SYRCHENCE</li> <li>DR PARE &amp; CRAIG NOW DETERBOD</li> <li>LOU RISK TI LOUD BE NEEDED.</li> <li>WILL AT</li> <li>WILL AT</li> <li>WORKY YOU OR SECURITY BARKET</li> <li>P - PEARE OF THD.</li> <li>THEOGHT ABOUT TI ALGT.</li> </ul></td></li></ul>	<ul> <li>I HAT ABOUT DEAB?</li> <li>HAVE OCE ACT VERY UNLELL.</li> <li>REFERED BALL DO DURINER SYRCHENCE</li> <li>DR PARE &amp; CRAIG NOW DETERBOD</li> <li>LOU RISK TI LOUD BE NEEDED.</li> <li>WILL AT</li> <li>WILL AT</li> <li>WORKY YOU OR SECURITY BARKET</li> <li>P - PEARE OF THD.</li> <li>THEOGHT ABOUT TI ALGT.</li> </ul>
<ul> <li>Reception robite - 6 Auty - Leoning, Neverset of Denia.</li> <li>Mencel set of Denia.</li> <li>Modeline ? IN () Should be exceeded.</li> <li>() WHAT ARE CHANCES of MARCHIG A Differences."-</li> <li>Marchiges."-</li> <li>Modeling to Denic Fit THAN MARCHIGE You wasse</li> <li>You wasse</li> </ul>	<ul> <li>U MAT ABOUT DEAB?</li> <li>MARE ORE ART VERY UNLELL.</li> <li>REFEREND BAREL DO DURCHTER STREAMENCE</li> <li>DR PARE &amp; CRAIG NOW DETERBOD</li> <li>LOW RISK TI LOUD BE NEEDED.</li> <li>WILL AT</li> <li>Perfore of PHD.</li> </ul>
<ul> <li>Recep rodice - 6 ANAY - Wounds, NERCENER OF DEALS.</li> <li>MERCENER OF DEALS.</li> <li>MARINE PIN DEALS OF MARCHIG A DIFFERENCES."-</li> <li>MOLLING ANY ZONEAT MIGHT URT.</li> <li>HOLLING ANY ZONEAT MIGHT URT.</li> <li>UNERGIDES ANT DIGHT URT.</li> </ul>	<ul> <li>I HAT ABOUT DEAB?</li> <li>HAVE OCE ACT VERY UNLELL.</li> <li>REFERED BALL DO DURINER SYRCHENCE</li> <li>DR PARE &amp; CRAIG NOW DETERBOD</li> <li>LOU RISK TI LOUD BE NEEDED.</li> <li>WILL AT</li> <li>WILL AT</li> <li>WORKY YOU OR SECURITY BARKET</li> <li>P - PEARE OF THD.</li> <li>THEOGHT ABOUT TI ALGT.</li> </ul>
<ul> <li>Reception robine - 6 Auty - Leoning, Neverset of Devis.</li> <li>Marchaet of Devis.</li> <li>Marchaet of Devis.</li> <li>Marchaet of Marchaet A Differences."</li> <li>Marchaet of Marchaet A Differences."</li> <li>Mouse Long Any Barent Martine You waste</li> <li>How Long Any Barent Martine</li> <li>How Long Any Barent Martine</li> <li>Marchaet of Prot + Con Marchaet of Prot + Con</li> <li>Marchaet of Prot + Con</li> <li>Marchaet of Prot + Con</li> <li>Marchaet of Prot + Con</li> </ul>	<ul> <li>I HAT ABOUT DEAB?</li> <li>HAVE OCE ACT VERY UNLELL.</li> <li>REFERED BALL DO DURINER SYRCHENCE</li> <li>DR PARE &amp; CRAIG NOW DETERBOD</li> <li>LOU RISK TI LOUD BE NEEDED.</li> <li>WILL AT</li> <li>WILL AT</li> <li>WORKY YOU OR SECURITY BARKET</li> <li>P - PEARE OF THD.</li> <li>THEOGHT ABOUT TI ALGT.</li> </ul>
<ul> <li>Reception robits - 6 Auty - 400Hq.</li> <li>NEVELSET OF DEVICE.</li> <li>MENCELSET OF DEVICE.</li> <li>MENCELSET OF DEVICES OF MARCHOR A DIFFORENCES.<sup>2</sup></li> <li>- POLIC LIKELY &amp; DEVICATE THAN MARCE YOU LIKELY &amp; DEVICATE THAN THAN THAT ARE YOU LIKELY AND THAN THAT ARE YOUR THAT ARE YOUR THAN THAT ARE YOUR THAT A</li></ul>	<ul> <li>U MAT ABOUT DEAB?</li> <li>HAVE OCE AT VERY UNLELL.</li> <li>ARFOLKED RATEL TO DAVALITEK STREAMENCE</li> <li>DR PARE &amp; CRAIG NOU DETECTED</li> <li>LOU RISK TI LOUID BE NEEDED.</li> <li>WILL TI</li> <li>C - WORKY YOU OR SEQUENT BUANKET</li> <li>P - PEARE OF THD.</li> <li>THOUGHT ABOUT TI ALST.</li> <li>LOOKE AT KERTABLE SITES &amp; BAF.</li> </ul>
<ul> <li>Reception robits - 6 Auty - Wounds, NERCENSER of Devia.</li> <li>Marchine P IN (1) Standard Excerdse.</li> <li>(1) WHAT ARE CHARGED OF MARCHIG A Differences.<sup>2</sup></li> <li>- Marchines.<sup>2</sup></li> <li>- Marchines.<sup>2</sup><!--</td--><td><ul> <li>U MAT ABOUT DEAB?</li> <li>MARE OCE AT VERY UNLELL.</li> <li>AREFORED BALL D DUGHTER STREAMENCE</li> <li>DR PARE &amp; CRAIG NOW DETERBOD</li> <li>LOW RISK TI LOUD BE NEEDED.</li> <li>WILL TI</li> <li>C. WORKY YOU OR SEQUENT BUANKET</li> <li>M. D. PRACE OF THD.</li> <li>THEOUGHT ABOUT IT AUST.</li> <li>LOOKE AT REPRIABLE SITES &amp; BINE.</li> <li>DANGHTER V. INVOLOD IN DY.</li> </ul></td></li></ul>	<ul> <li>U MAT ABOUT DEAB?</li> <li>MARE OCE AT VERY UNLELL.</li> <li>AREFORED BALL D DUGHTER STREAMENCE</li> <li>DR PARE &amp; CRAIG NOW DETERBOD</li> <li>LOW RISK TI LOUD BE NEEDED.</li> <li>WILL TI</li> <li>C. WORKY YOU OR SEQUENT BUANKET</li> <li>M. D. PRACE OF THD.</li> <li>THEOUGHT ABOUT IT AUST.</li> <li>LOOKE AT REPRIABLE SITES &amp; BINE.</li> <li>DANGHTER V. INVOLOD IN DY.</li> </ul>
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<ul> <li>Reception robits - 6 Auty - Wounds.</li> <li>Neverse of Denia.</li> <li>Mencenter of Denia.</li> <li>Model and the chances of MARCING A Differences.<sup>2</sup></li> <li>Marcines.<sup>2</sup></li> <li>Marcin</li></ul>	<ul> <li>U MAT ABOUT DEAB?</li> <li>HAVE OCC PAT VERY UNHELL.</li> <li>REFERED BALLED DAVGHTER STREEGENCE</li> <li>DR PACE &amp; CRAIG NOW DETOGRAD</li> <li>LOW RISK TI LOW DE R NEEDE.</li> <li>WILL AT</li> <li>WILL AT</li> <li>WILL AT</li> <li>WILL AT</li> <li>WILL AT</li> <li>WILL AT</li> <li>PERACE OF PHD.</li> <li>TIFDUGHT ABOUT IT ALST.</li> <li>LOOKE AT KERTABLE SITTES &amp; BHE.</li> <li>DANGHTER V. INVALUED IN DM.</li> <li>SIZE OF DERD? SHOULD BOX.</li> <li>SIZE OF DERD? SHOULD BOX.</li> </ul>
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<ul> <li>Reception robits - 6 Auty - Wounds.</li> <li>Neverse of Denia.</li> <li>Mencenter of Denia.</li> <li>Model and the chances of MARCING A Differences.<sup>2</sup></li> <li>Marcines.<sup>2</sup></li> <li>Marcin</li></ul>	<ul> <li>I HAT ABOUT DEAB?</li> <li>HAVE OCE FAT VERY UNLELL.</li> <li>REFERED BAEL DO DUGHTER STREAMENCE</li> <li>DR PACE &amp; CRAIG NOW DEDEABD</li> <li>LOU RISK TI LOUD BE NEEDD.</li> <li>WILL AT</li> <li>C - WOODY YOU OR SECURITY BUANKET</li> <li>M C - PEARE OF PHD.</li> <li>THOUGHT ABOUT TI AUT.</li> <li>LOOKE AT RERITABLE SITES &amp; BAF.</li> <li>DANGHTER V. INVALUED IN DM.</li> <li>SIZE OF DERF? SHOUED BOX.</li> </ul>
<ul> <li>Reception of a difference of a differ</li></ul>	<ul> <li>I HAT ABOUT DEAB?</li> <li>HAVE OCE AT VERY UNLELL.</li> <li>AREPARE &amp; CRAIG NOW DETOBOR</li> <li>DR PARE &amp; CRAIG NOW DETOBOR</li> <li>LOU RISK TI LOUD BE NEEDED.</li> <li>WILL IT</li> <li>I WORK YOU OR SECURIT BANKET </li> <li>M B - PEARE OF PHD.</li> <li>THOUGHT ABOUT TI AUT.</li> <li>LOOKE AT RERITABLE SITES &amp; BAR.</li> <li>INTERMENT V. INVOLVED IN DM.</li> <li>SIZE OF DERF? SHOUED BOX.</li> <li>MENDER V. INVOLVE + PAT.</li> <li>(CHILDREN OF TO BEON MUSCE)</li> <li>MENDER DI TOW SEADE INFERENCE RISK</li> </ul>
<ul> <li>Reception To Blue - 6 ANAY - Wounds , Never set off Dense.</li> <li>March set off Dense.</li> <li>March Ale chances of MARCHO A Differences."</li> <li>- Porte URCAY &amp; Densert THAN MARCE You wasse</li> <li>.' HOW LONG ANY BOUGHT THAN MARCE You wasse</li> <li>.' HOW LONG ANY BOUGHT MENT URST.</li> <li> Weight ODE RATED WANTED ODDS RATED</li> <li>@ WHAT ARE YOUR THOUGHTS RE CET - P CET - D.</li> <li>More Herestic</li> <li>@ WE HAVE EXPERIENCE [. NOT A STOCK TS ME - BUT GEARCY LOOKED WITO TT.</li> <li>NOU AT BUT I WANT TO RISK IT-</li> </ul>	<ul> <li>I HAT ABOUT DEAB?</li> <li>HAVE OCE FOIT VERY UNLELL.</li> <li>REFERED BAEL DO DUGHERK EXPECTION</li> <li>DR PACE &amp; CRAIG NOW DESCORD</li> <li>LOU RISK TI LOUD BE NEEDED.</li> <li>WILL IT</li> <li>I WORL TO UNK SECURITY BARNKET</li> <li>MILL IT</li> <li>I WORL TO UNK SECURITY BARNKET</li> <li>MILL IT</li> <li>I WORL TO UNK SECURITY BARNKET</li> <li>I WORL TO UNK SECURITY SECURITY BARNKET</li> <li>I WORL TO UNK SECURITY SEC</li></ul>
<ul> <li>Reception of a day - uponing, NEVEL SET OF DODA.</li> <li>MURAL ALE CLANCES of MARCHIG A Differences.<sup>2</sup></li> <li>MURAL ALE CLANCES of MARCHIG A Jour Wasse</li> <li>MURAL ALE ANY BOUGHT THAN MARCHIG Jour Wasse</li> <li>MURAL ALE JOUE THOUGHTS RE OEDS RATIO</li> <li>ULMAR ALE JOUE THOUGHTS RE OET - D. AVAIL MARCENCE I. NOT A STOCK TO ME HAVE EXPERIENCE I. NOT A STOCK TO ME. BUT OLEARY LOOKED WITO IT.</li> <li>NOU AT BUT I UANT TO RISK IT- J IF A GAMME OF</li> </ul>	<ul> <li>I HAT ABOUT DEAB?</li> <li>HAVE SEE FOT VERY UNLELL.</li> <li>REFERED BAELED DAVEHUEL.</li> <li>REFERE &amp; CRAIG NOW DETERBOR</li> <li>DE PARE &amp; CRAIG NOW DETERBOR</li> <li>LOU RISK TI LOUD BE NEEDD.</li> <li>WILL AT</li> <li>C - WOORY YOU OR SECURITY BANKET </li> <li>M C - PEARE OF PHD.</li> <li>THEOGHT ABOUT TI ALST.</li> <li>LOOKE AT RERITABLE SITES &amp; BAE.</li> <li>DAVEHATER V. INVOLOD LN DM.</li> <li>SIZE OF DEAR ? SHOLED BOX.</li> </ul>
<ul> <li>Reception To Blue - 6 ANAY - Wounds , Never set off Dense.</li> <li>March set off Dense.</li> <li>March Ale chances of MARCHO A Differences."</li> <li>- Porte URCAY &amp; Densert THAN MARCE You wasse</li> <li>.' HOW LONG ANY BOUGHT THAN MARCE You wasse</li> <li>.' HOW LONG ANY BOUGHT MENT URST.</li> <li> Weight ODE RATED WANTED ODDS RATED</li> <li>@ WHAT ARE YOUR THOUGHTS RE CET - P CET - D.</li> <li>More Herestic</li> <li>@ WE HAVE EXPERIENCE [. NOT A STOCK TS ME - BUT GEARCY LOOKED WITO TT.</li> <li>NOU AT BUT I WANT TO RISK IT-</li> </ul>	<ul> <li>Image of the period o</li></ul>

Asked HOW LONG WAT 45T.
C APPON IMPH - NB VARACH-
STOP 2-2 DAYS PRE 5 +
INE SUGHTLY
P ? OVGLANGIT _ C - DAY CASE UNLESS
ProBs .
- Get songene to drive
Describer Azoardure - 1A.
Siven Permission To Contract Room.
NB @ MENTONED & ME THAT HE DIDN'T
DIRCURS DOACTIVATION + END OF LIFE
PROD NOT NEC IN THIS CASE
BUT DOES', HE PATIENIS & OLDER ONES
DR - 21.9.16.
FARLY DETAILED BUT NOT AS MUCH AS

-

4 **Access And Recruitment** 

4i Permission To Contact Request Forms (Accepted Device)

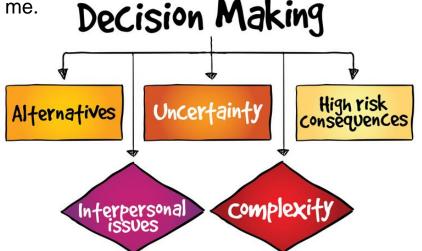


# An Invitation To Take Part In A Study About Your Decision To Have An ICD Or CRT **Implanted?**

Hello, my name is Alison, I am a nurse with a clinical background in cardiology and a lecturer in the School of Healthcare, University of Leeds.

If you are planned to have an ICD or CRT implanted or have had one fitted within the last 3 months then you may be able

to help me.



I am looking for volunteers who may be willing to complete a questionnaire (approx. 15 to 20 mins) related to how you reached your decision to have a device.

If you are interested and would like to know more about it, I would be grateful if you could indicate a preferred day, time and method overleaf by which I may contact you to provide you with further information and respond to any queries you may have.

Thank you in anticipation, Alison

Please indicate your permission for Alison Malecki-Ketchell to contact you by stating a preferred time and method of contact:

Morning 9am to 12.00	Monday to Friday
Afternoon 12.00 midday to 6pm	Weekend
Evening 6pm to 9pm	Specify:
By post (Please provide address)	
By home phone (Please provide number)	
By mobile	
(Please provide number)	
By text	
(Please provide number)	
By e mail	
(Please provide address)	
Other (please specify):	

Please print your name:

Signature:

Please return completed forms to the nurse or alternatively, if you would like to participate or discuss this further you may contact me directly on:

Ms Alison Malecki-Ketchell MSc, RN Room 2:17, Baines Wing, School of Healthcare, University of Leeds, Woodhouse Lane, Leeds, LS2 9JT

Landline – 0113 3431258 (voicemail available)

E mail – <u>a.c.ketchell@leeds.ac.uk</u>

I appreciate that you will be very busy and thank you for taking the time to consider your involvement in this study

Best wishes Alison



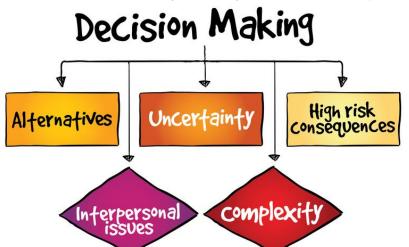
Permission To Contact Request Forms (Declined Device)



# An Invitation To Take Part In A Study Regarding Your Decision Not To Have An ICD or CRT?

Hello, my name is Alison, I am a nurse with a clinical background in cardiology and a lecturer in the School of Healthcare, University of Leeds.

If you have been recommended for an ICD or CRT implant within the last 3 months then you may be able to help me.



I am looking for volunteers who may be willing to complete a questionnaire (approx. 15 to 20 mins) related to your decision not to have a device implanted at this stage.

If you are interested and would like to know more about it, I would be grateful if you could indicate a preferred day, time and method overleaf by which I may contact you to provide you with further information and respond to any queries you may have.

Thank you in anticipation, Alison

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Please indicate your permission for Alison Malecki-Ketchell to contact you by stating a preferred time and method of contact:

Morning 9am to 12.00	Monday to Friday
Afternoon 12.00 midday to 6pm	Weekend
Evening 6pm to 9pm	Specify:
By post (Please provide address)	
By home phone (Please provide number)	
By mobile (Please provide number)	
By text (Please provide number)	
By e mail (Please provide address)	
Other (please specify):	

Please print your name:

Signature:

Please return completed forms to the nurse or alternatively, if you would like to participate or discuss this further you may contact me directly on:

Ms Alison Malecki-Ketchell MSc, RN Room 2:17, Baines Wing, School of Healthcare, University of Leeds, Woodhouse Lane, Leeds, LS2 9JT

Landline – 0113 3431258 (voicemail available)

E mail – <u>a.c.ketchell@leeds.ac.uk</u>

I appreciate that you will be very busy and thank you for taking the time to consider your involvement in this study



Best wishes Alison



School of Healthcare

## An Invitation To Take Part In A Study About How People Make Decisions To Accept Or Decline Cardiac Device (ICD or CRT) Implantation

Date

Dear

Thank you for considering participation in my study.

I have a long standing interest in the welfare of people who have or are recommended for cardiac defibrillator (ICD) or pacemaker (CRT) implantation. We recognise that making sense of the possible benefits and harms of recommended treatments and care can present particular challenges for your decision making. We also know that the degree of satisfaction with decision making could have an affect upon how well you adjust, accept and cope with your treatment. However, we know very little about how people reach a decision to accept or decline devices.

The purpose of the study is to gain a deeper understanding of how people make decisions regarding ICD and CRT device implantation, to help us to design and implement more targeted information and support to meet the specific needs and situations of people when making their decision in the future.

As you have recently been recommended for an ICD / CRT pacemaker I would like to hear your views, perceptions and experience of making the decision regarding device implant and would like to extend an invitation to participate in part one of my study which will involve completing a questionnaire. Please find enclosed a patient information sheet, a questionnaire, a consent form and a stamped addressed envelope. The questionnaire should take approximately 15 to 20 minutes of your time. It is composed of 6 sections each with a number of tick box answer questions. Each section includes a brief explanatory note on how to address each question. Please answer all the questions as fully as you are able and feel free to make any additional comments alongside your tick box answers.

All information you provide will be anonymised by assigning you a participant number and will remain confidential at all times. Once the anonymised information has been entered into a password protected electronic file and stored on the University of Leeds secure server, the questionnaire will be stored in a locked cabinet in my locked office at the University of Leeds and will only be available to me. It will be destroyed as confidential waste at the end of the study. If English is not your first language and you would prefer to receive the patient information sheet and questionnaire in another language, please don't hesitate in contacting me.

Alternatively, you may prefer to complete and return an online version of the questionnaire. If so, please visit <u>https://leeds.onlinesurveys.ac.uk/cardiac-device-decision-making</u>

At the end of the questionnaire you will also be invited to participate in part two of the study which will involve an audio recorded interview (approx. 1 hour) to share your experience further with me. There is no obligation to agree to the interview and you may prefer to participate in the part one questionnaire completion only.

If you are interested in being involved with the interview please indicate your permission for me to contact you by stating your preferred day, time and method of contact at the end of the questionnaire. I will then contact you with further information and arrange a convenient date and time to meet in the hospital environment, to coincide with your next outpatient appointment. If you wish to participate in the interview, there will be an opportunity to clarify questions prior to the interview when you will be required to sign the consent form in English. Audio recordings will be anonymised to a participant number, transferred as soon as possible to a password protected electronic file and stored on the University of Leeds secure server. The original recording will then be deleted.

I appreciate that you will be very busy and thank you for taking the time to consider your involvement in this research. If you require any further information, please do contact me on:

Landline – 0113 3431258 (voicemail available)

E mail – <u>a.c.ketchell@leeds.ac.uk</u>

**Best wishes Alison** 

Please return the questionnaire in the enclosed pre paid envelope to: Alison Malecki-Ketchell (Chief Investigator) Room 2:17, Baines Wing School of Healthcare University of Leeds Woodhouse Lane Leeds LS2 9JT

This study has received ethical approval from the Health Research Authority (HRA) Ref No:16/LO/1164 IRAS Project No. 194017 on 29<sup>th</sup> July 2016 and R&D permission

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#### Patient Information Sheet (PIS)



**Participant Information Sheet** 

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# HOW DID YOU MAKE YOUR DECISION REGARDING PRIMARY PREVENTION CARDIAC DEVICE (ICD or CRT) THERAPY?

You are invited to take part in the above named study but before you decide, please read the following information.

#### What is the purpose of this study?

Primary prevention cardiac device therapy (ICD and CRT) provides an important treatment option for people at risk of sudden cardiac rhythm disturbances. We know from previous research that the enormity and uncertainty of the benefits and potential risks associated with cardiac device therapy can present significant challenges for patients when faced with making a decision regarding implantation. However little is known about how patients in the UK actually reach a decision to accept or decline it.

By gaining a better understanding of the way you arrive at a decision to proceed or not with implantation, we hope to be able to develop tailored information and communication practices to support the specific needs and requirements of future patients contemplating cardiac device therapy and so facilitate truly informed choices and enable effective shared decision making with your doctor, family and significant others.

The aim of this two part study is to explore what influences patients decisions to accept or decline cardiac device therapy. You are invited to participate in either part 1 of the study only or both parts one1 and 2.

#### Who is doing the study?

The study is being conducted by Alison Malecki-Ketchell as part of her part time PhD studies at the School of Healthcare, University of Leeds.

Dr Paul Marshall and Dr Joan Maclean from the School of Healthcare, University of Leeds are supervising this research.

#### Why have I been asked to participate?

You have been invited to participate because you have been recommended for either an Implantable Cardioverter Defibrillator (ICD) or Cardiac Resynchronisation Therapy (CRT) as a primary preventative measure to manage your cardiac condition.

#### What will be involved if I take part in this study?

If you choose to participate in part 1, you will be asked to complete a questionnaire, either on paper to be returned in a pre paid envelope or you may elect to complete an online version. The questionnaire is composed of 6 sections including various questions each requiring a tick box answer. The questionnaire will take approximately 15 to 20 minutes to complete. Your medical records may be accessed if further information regarding your device therapy is required. You may opt to participate in part 1 only.

At the end of the questionnaire, you will be invited to participate in part 2 of the study. Part 2 will involve a single interview which will last approximately 1 hour and will be audio recorded. The interview will be an opportunity for you to discuss how you reached your decision. Any additional written notes taken during the interview will be shared with you prior to closure of the interview. Volunteers for interview will be contacted via their preferred time and method to discuss the study further and agree an interview date and time. The interview will be arranged to coincide with your next cardiology outpatient appointment, to take place in a meeting room at the hospital at a time convenient to you. Alternatively, if you are not selected to participate in the interview or you decide not to take part, gratitude for your involvement in part 1 and interest in part 2 will be acknowledged at the time and in writing.

ICD PIS v4 AC Malecki-Ketchell June 2016 HRA Ref No: 16/LO/1164 IRAS No: 194017

# What are the advantages and disadvantages of taking part?

There is no direct benefit to you for taking part in this study but sharing your views and experience will help us to better understand the issues and concerns which are important to you when contemplating treatment decisions and help us to improve support mechanisms to help patients in the future. Other than the time you give to participate, there are no specific disadvantages in taking part. Should you experience any discomfort or distress during the interview, it will be adjourned and further support by your ICD Specialist Nurse and / or Consultant will be offered. The interview would only be resumed at your request.

#### Can I withdraw from the study at any time?

Your consent to participate in part 1 will be assumed on completion and return of the questionnaire. You are free to withdraw your involvement in part 1 up to two weeks after submitting the questionnaire. Once this period has expired your anonymised answers will have been included for analysis and cannot be withdrawn.

If you agree to participate in part 2, the purpose of the study and your involvement will be discussed again prior to requesting your written consent on an English version of the form. You are free to withdraw at any time before, during or up to two weeks after the interview without giving reason or affecting any aspect of your ongoing care. After two weeks, the information obtained from you will be anonymised and analysed and cannot be withdrawn.

#### Who has reviewed this study?

Ethical approval has been granted by: The Health Research Authority (HRA) Ref No: 16/LO/1164 (IRAS Project Id 194017) on 29.7.2016 and The Research and Development Units from Trusts involved

If you are dissatisfied with any aspect of the study please make your concerns known to the Faculty Research Ethics & Governance Administrator, Room 10.110 Worsley Building, University of Leeds LS2 9NL © 0113 3437587 © overnance-ethics@leeds.ac.uk

# Will the information obtained in the study be confidential?

All information obtained from you will be kept strictly confidential. Your contact details requested for the purpose of arranging the interview and questionnaire responses will be stored in a locked cabinet (paper version) within the School of Healthcare. Electronic questionnaires and data transferred from paper questionnaires to an electronic file will be kept in a password protected file on the secure network of the University of Leeds and will only be accessible to Alison Malecki-Ketchell. The audio record and notes taken at interview will be transcribed by Alison into a password protected electronic file on the secure network of the University of Leeds. Your name will be removed from the interview transcription, which means that only Alison will know which information belongs to you. As part of the supervisory role, Dr Paul Marshall and Dr Joan Maclean may have access to the questionnaire data and interview transcripts for the purpose of verification of transcription and analysis, however all your personal identifiable details will be removed before allowing them access to your data. Your contact details will be securely deleted on completion and submission of the thesis. The digitalised audio record of your interview will be deleted after transcription. Paper questionnaires and interview notes will be shredded once analysis is complete. All transcribed questionnaire and interview data will be held in a password protected file on the secure network of the University of Leeds for a period of five years after which it will be securely and irreversibly deleted from the device on which it is stored.

#### What will happen to the results of the study?

Your anonymised responses and that of other participants will be analysed and reported. Some direct quotes may be used from all participants to illustrate the views and experiences expressed, however these will not be associated with your name. The results of this study will form part of Alison's PhD thesis and will be published in a peer reviewed scientific journal and presented at conferences. You will be able to request a summary of the study results from Alison (contact details below).

If you agree to take part, would like more information or have any questions or concerns about the study please contact:

Alison Malecki-Ketchell, School of Healthcare, Room 2:17, Baines Wing, University of Leeds LS2 9JT 20113 3431258 
a.c.ketchell@leeds.ac.uk

Thank you for taking the time to read this information sheet.

ICD PIS v4 AC Malecki-Ketchell June 2016 HRA Ref No: 16/LO/1164 IRAS No: 194017

# 5. Strand 1 Questionnaire Scoring Tables

Coding For Sociodemographic Variables			
For some tests, dichotomous variables also converted to presence or absence of characteristic:- 0 = No 1 = Yes			
Site	Nominal	1 – LTHT 2 – MY 3 – CHT 4 - STHT	
Age	Interval	Age in years	
Age Category	Nominal	1 – 32 – 65 years 2 – 66 – 82 years	
Older Group > 66 years	Nominal	0 = No 1 = Yes	
Gender	Nominal	1 – Male 2 – Female	
Male	Nominal	0 = No 1 = Yes	
Religion	Nominal	1 – Christian 2 – Other (Buddhist) 3 - None	
Ethnicity	Nominal	1 – White British 2 – Other (White Asian)	
Relationship	Nominal	1 – Single 2 – Married / Civil partner / Live with partner 3 – Divorced / Separated 4 – Widow (er)	
Social Support	Nominal	1 – Live with next of kin 2 – Next of kin nearby 3 – Live alone – friends nearby	
Education - Years in formal education	Nominal	1 - < 16 years(CSE / 'O' Level / GCSE)2 - 16 to 18 years('A' Level / Cert / Diploma)3 - > 18 years(Bachelors / Masters / PhD)	
Employment Status	Nominal	1 – Employed / Self employed 2 – Retired 3 – Seeking employment 4 - Unemployed	
Occupational Status	Nominal	1 – Student 2 – Unskilled manual 3 – Semi skilled manual 4 – Clerical 5 – Managerial 6 - Professional	
Health Literacy	Nominal	1 – Low average 2 – Average 3 – Above average	
Low Health Literacy Group 1 only	Nominal	0 = No 1 = Yes	

# Coding For Situational Context Variables (NB Only selected options included)

included)		
Cardiac Conditions:- Myocardial Infarction } Categorised as known IHD Angina } Heart failure Ischaemic cardiomyopathy Non ischaemic cardiomyopathy Hypertrophic cardiomyopathy / ARVC Inherited congenital condition Tachyarrhythmia Bradycardia	Nominal	1 – Yes 2 – No 3 – Don't Know
NYHA – Self assessment of symptom severity	Ordinal	<ol> <li>I Normal physical activity</li> <li>II Slight limitation</li> <li>III Marked limitation</li> <li>IV Symptoms at rest</li> </ol>
Cardiac device	Nominal	1 – ICD 2 – CRT-P 3 – CRT-D 4 - Don't Know
When recommended	Nominal	1 – Within last month 2 – Within last 6 months 3 – More than 6 months ago
Why recommended	Nominal	<ol> <li>Prevent / treat rhythm</li> <li>Improve HF symptoms</li> <li>Both rhythm &amp; symptoms</li> <li>Don't know</li> </ol>
Who recommended:-		
Cardiologist	Nominal	1 – Yes
Heart failure specialist		2 – No
Congenital cardiac conditions specialist		3 – Don't Know
Decision	Nominal	1 – Accept 2 - Decline

# Information Source And Recall (NB Only selected options included)

Any alternative treatment options discussed	Nominal	1 – Yes
		2 – No
		3 – Don't Know
Opportunity to discuss:-		
Benefit & harm of accepting device	Nominal	1 – Yes
Benefit & harm of refusing device		2 – No
Potential physical complications		3 – Don't Know
Emotional concerns		
Social issues		
Impact on work and home related activities		
No opportunity to discuss		
Further information sought from:-		
Consultant	Nominal	1 – Yes
GP		2 – No
Specialist nurse		3 – Don't Know
Cardiac physiologist		
Spouse / partner		
Other family members		
Friends		
Other patient with a device		
Hospital leaflet / written information		
General websites		
Service user website / patient forums		
Professional websites eg BHF		
Did not require further information		

Coping Style, Decisional Control And Decisional Regret (See tables below)					
Mean monitoring	Interval	Mean (SD)			
Mean blunting	Interval	Mean (SD)			
Monitoring minus blunting M-B	Interval	M-B			
Low monitoring	Nominal	0 - High monitor (> mean) 1 – Low monitor (< mean)			
Low M-B	Nominal	0 – High M-B (Positive score) 1 – Low M-B (Zero or negative score)			
Desired control preference:- AB or BA BC CB or CD DC DE or ED	Nominal	<ol> <li>Active</li> <li>Active collaborative</li> <li>Collaborative</li> <li>Passive collaborative</li> <li>Passive</li> </ol>			
Actual control preference:- A B C D E	Nominal	<ol> <li>Active</li> <li>Active collaborative</li> <li>Collaborative</li> <li>Passive collaborative</li> <li>Passive</li> </ol>			
Match between desired and actual control	Nominal	0 – No 1 – Yes			
Decisional regret	Interval	Mean (SD)			
Some regret	Nominal	0 – No 1 – Yes			

E

# Informational Coping Strategy Coding

Monitoring statements colour coded

 $\Sigma$  all monitoring and all blunting scores for all scenarios Monitoring scores range from 12 to 60

High monitors > than mean; low monitors < mean

Monitoring minus blunting score = M-B score

High M-B positive score; Low M-B zero or negative score

Q. 22	Imagine you have been suffering from headaches and dizziness for some time. You visit your GP. The doctor tells you things don't look too good and refers you to a specialist for further medical examination and tests. Please select one for each row.					
	Predictability = - Controllability = -	Not at all applicable to me 1	Not very applicable to me 2	A little bit applicable to me 4	Rather applicable to me 4	Strongly applicable to me 5
I plan to ask the specialist as many questions as possible		1	2	3	4	5
I think the	nings will turn out to be alright	1	2	3	4	5
from the	to gather more information other doctors or medical before I see the specialist	1	2	3	4	5
	o start reading about hes and dizziness	1	2	3	4	5
	time being I try not to think of ant outcomes	1	2	3	4	5
examina	t going to worry. Such an ation and tests is not as bad ring from headaches all the	1	2	3	4	5

Q. 23	Imagine you work hard and are overweight. Your GP has advised you that this is unhealthy several times before. During a GP visit the doctor tells you that you have hypertension (high blood pressure). Please select one for each row.					
	Predictability = + Controllability = ++	Not at all applicable to me 1	Not very applicable to me 2	A little bit applicable to me 4	Rather applicable to me 4	Strongly applicable to me 5
	t the blood pressure machine to the doctor isn't mistaken	1	2	3	4	5
I take ti	hings easy	1	2	3	4	5
I decide	e to continue living normally	1	2	3	4	5
the risk	e GP extensive questions about is and consequences of high pressure	1	2	3	4	5
	yself some medical conditions rse than this	1	2	3	4	5
l plan te hyperte	o start reading a lot about ension	1	2	3	4	5

Q. 24	Imagine you have angina (chest pains) and your specialist advises a heart operation. The specialist informs you that (s)he is not certain how effective an operation will be. You will have to wait 4 months for the operation.					
	Predictability = - Controllability = +	Not at all applicable to me 1	Not very applicable to me 2	A little bit applicable to me 4	Rather applicable to me 4	Strongly applicable to me 5
	e view that in my case the n will be effective	1	2	3	4	5
I decide heart sui	to find out all that is known about gery	1	2	3	4	5
	to undertake as many pleasant ul activities as possible in the months	1	2	3	4	5
<b>-</b>	ng to find out whether there is a hat the operation will make orse	1	2	3	4	5
	to contact other patients with the edical problem for information	1	2	3	4	5
I tell mys alright	elf things will turn out to be	1	2	3	4	5

Q. 25	Imagine you have become very breathless. Your doctor has diagnosed the cause as 'chronic heart failure' and recommends that you have a cardiac resynchronization defibrillator device implanted. The specialist informs you that he is not certain how effective the device will be. Please select one for each row.					
	Predictability = - Controllability = +	Not at all applicable to me 1	Not very applicable to me 2	A little bit applicable to me 4	Rather applicable to me 4	Strongly applicable to me 5
	doctor that I want to know ng there is to know about the	1	2	3	4	5
	internet for as much on as possible	1	2	3	4	5
l ask mys	self whatever can go wrong	1	2	3	4	5
	to relax now in the face of oming to me	1	2	3	4	5
I tell mys alright	elf things will turn out to be	1	2	3	4	5
has a de	ately contact somebody who vice and may inform me a bit e operation	1	2	3	4	5

The Threatening Medical Situations Inventory (TMSI) (van Zuuren et al., 1996; van Zuuren and Hanewald, 1993) -Adapted to include CRMD decision scenario with permission

# **Decisional Control Preferences Scale Scoring**

Active SDM Passive

#### **Desired Decisional Control**

Q. 28	I prefer to:	
	Make the final selection about which treatment I will receive	A
	Make the final selection of my treatment after seriously considering my doctor's opinion	B
	Have my doctor and I share responsibility for deciding what treatment is best for me	С
	Have my doctor make the final decision about which treatment will be used, but seriously considers my opinion	D
	Leave all decisions regarding my treatment to my doctor	E

The Control Preference Scale (Degner et al., 1997) - Adapted with permission

Use 2 most favoured i.e. 1 & 2						
AB or BA Active active						
BC	= 2					
СВ	Collaborative active	= 3				
CD	= 3					
DC	Passive collaborative	= 4				
DE or ED Passive passive =						
Actual Decis	sional Control					

Q. 30	I made the final decision about device implantation	A
	I made the final decision about device implantation after seriously considering my doctor`s opinion	В
	My doctor and I shared responsibility for deciding whether I should have device implantation	С
	My doctor made the final decision about device implantation, but seriously considered my opinion	D
	I left the final decision regarding device implantation to my doctor	E

The Control Preference Scale (Degner et al., 1997) - Adapted with permission

= 1

- A Active active
- D Passive collaborative = 4
- B Active collaborative = 2
- E Passive passive = 5
- C Collaborative = 3

# **Decisional Regret Scoring**

Q. 31		Strongly Agree	Agree	Neither agree or	Disagree	Strongly disagree
		1	2	disagree 4	4	5
	It was the right decision	1	2	3	4	5
	I regret the choice that was made	5	4	3	2	1
	I would go for the same choice if I had to do it over again	1	2	3	4	5
	The choice did me a lot of harm	5	4	3	2	1
	The decision was a wise one	1	2	3	4	5

The Decision Regret Scale (Brehaut et al., 2003; O'Connor, 1996) - Adapted with permission

Minimum = 5/5 = 1 Maximum = 25/5 = 5. To convert to 0 to 100 - subtract 1 and multiply by 25

Total = 0 no regret to 100 high regret

#### 6. Cohen's Classification Of Association Strength

Cohen's Classification Of Association Strength Measured By A Correlation Coefficient And The Coefficient Of Determination

Cohen's Classification Of Association Strength (Cohen, 1988)						
Size Of Effect	% Variance	Absolute Value of <i>r</i>	r <sup>2</sup>			
Trivial		<0.1				
Small / Weak	Between 1% and 8% Variance Shared	0.1 <u>≤</u> <i>r</i> <0.29	$0.01 \le r^2 < 0.08$			
Medium/ ModerateBetween 9% and 25% Variance Shared $0.30 \le r < 0.49$ $0.09 \le r^2 < 0.24$						
Large / Strong	At Least 25% Variance Shared	<i>r</i> ≥ 0.50	$r^2 \ge 0.25$			

Cohen (1988) adapted from Gray and Kinnear (2012) p407.

#### Cohen's Categories Of Effect Size

Cohen's Categories Of Effect Size (Cohen, 1988)							
Size Of EffectIndependent t TestANOVA Eta $\eta^2$ ANOVA Effect SizeEffect Size Cohen's dSquared Effect SizeCohen's f							
Trivial	<0.2						
Small	0.2 <u>&lt;</u> <i>d</i> <0.5	0.01 <u>≤</u> η² <0.06	0.10 <u>≤</u> <i>f</i> <0.25				
Medium	0.5 <u>&lt;</u> <i>d</i> < 0.8	0.06 <u>≤</u> η² < 0.14	$0.25 \le f < 0.40$				
Large	<i>d</i> ≥ 0.8	η² <b>≥</b> 0.14	<i>f</i> <u>≥</u> 0.40				

Adapted from Gray and Kinnear (2012).

#### 7. Interview Consent Form



School of Healthcare

#### Participant Consent Form HOW DID YOU MAKE YOUR DECISION REGARDING PRIMARY PREVENTION CARDIAC DEVICE (ICD or CRT) THERAPY?

Site:	Please confirm agreement to the statements by putting your initials in the box below
I confirm that I have read and understood the participant information sheet	
I have had the opportunity to ask questions and discuss this study and received satisfactory answers to all of my questions	
I have received enough information about the study	
<ul> <li>I understand that my participation is voluntary and I am free to withdraw from the study:-</li> <li>1 At any time up to one week post-interview</li> <li>2 Without having to give a reason for withdrawing, without my care or legal rights being affected</li> </ul>	
3 All information provided by me will be removed from the study following my withdrawal.	
I understand that once information obtained from me has been analysed (after one week post-interview), it cannot be withdrawn from the study	
I understand that my interview will be audio-recorded	
I understand that relevant sections of my medical records may be accessed by Alison Malecki-Ketchell, where it is relevant to my taking part in this research to glean supplementary information regarding my device. I give permission for her to have access to my records.	
I understand that any information I provide, including personal details, will be kept confidential, stored securely and only accessed by those carrying out the study	
I understand that any information I give may be included in published documents but all information will be anonymised	
I agree to take part in this study	
Participant Signature	Date
Name of Participant	
Researcher Signature	Date
Name of Researcher	

Thank you for agreeing to take part in this study

## 8. Strand 2 Qualitative Data Familiarisation Code Book v4

Key To Colour Codes
Codes emerging from conceptual map
Codes emerging from individual participants
Codes emerging from participant responses to questions

Codes in brackets indicate condensing of codes from previous versions 1 to 4

1	MONITOR & BLUNTER - Desire For Info Gathering	Description	
1.1	Monitoring - Desire for information	Desire for information - high.	
( <mark>2.4; 17.1; 17.4; 18.1</mark> )		Ğ	
1.2	Blunting - No desire for information	Expresses no or low desire for or avoidance of information	
(17.5; 18.16)	Evidence Of Avoidance Of Information	eg Evidence of avoiding shock therapy	
	INDIVIDUAL Decision Making		
2.1	Evidence Of Initial Systematic (System 2) Information Gathering	Evidence of sufficient amount of searching & information	
( <mark>2.2d; 2.4;</mark> 17.1; 17.4;	ie from Dr, specialist nurses, leaflets, website etc to Inform ie	gathering to inform the decision Actively asks, seeks &	
18.1)	Pre Decision (Possible Secondary Expert Opinion Heuristic)	collects info from reliable sources	
	Search For Positive Information & Reinforcement	eg Information that informs and / or reinforces decision	
2.5	Evidence Of Information Gathering To Support ie Post Decision	Information gathering to support a decision made based upon heuristics	
2.7 (2.8)	Search For Positive Information & Reinforcement	eg Information that informs and / or reinforces decision Tendency to search for, interpret, favor, and recall information in a way that confirms one's	
(17.4)	Confirmation Bias Of System 1. Exagerated Perception Of Likelihood Of Improbable, Extreme Event Occurring Outweighs Low Probability	preexisting beliefs or hypotheses (Plous, S. 1993) Uncritical acceptance of suggestion / recommendation (K-P81)	
2.2a	Heuristic Information Gathering - Expert / Dr opinion / view only	Relies solely upon what expert says (OK but compare with	
(17.6; 7.5)	Respecting & Accepting Knowledge Of And Submission To	understanding)	
(20.3 + 20.4 + 20.5)	Experts / Expertise		
2.2b	Evidence Of Initial Availability Heuristic (System 1) Information	Relies solely upon availability ie others, past, TV etc Heuristic	
(17.6)	Gathering ie Own or Others Previous Experience eg Family /	referral to familiarity, previous experience, views / opinions /	
19.3 & 19.13	Friends / TV / Patient Forums	ideas retrieved from memory. Frequency of occurrence judged	
	Situation Of Others	by ease of recall (Kahnemann P129)	
2.3	Speed And Ease Of Decision Making	Quick and easy OR slow and difficult	
(19.5)	Consider degree of resoluteness		
2.6	Cognitive Ease	Happy mood = gullible, biased, less vigilant, prone to logical	
	Only briefly apparent (one line each) L4 & W20	error S1 WYSIATI. Sad mood = doubter, unbeliever, perceive	
2.9	System 1 Reliance Upon Consistent But Not Nec Complete	ie Focus upon existing evidence but ignores absent evidence	
	Information	WYSIATI - so framing important (K-P87)	
2.10a	Affect Heuristic - Choice Directly Influenced By Feelings &	Attracted / interested in technology - more likely to perceive	
(14.13; 19.9; 19.21)	Unrealisation Of Tendency To Approach	greater benefit and minimal risk. Inquisitive, Interested,	
	Describes substitution of answer to a difficult Q ie what do I	Fascinated In Cardiac Condition, Treatment, Technology	
	think with answer to an easier Q ie how do I feel (K-P139)	Hope & Belief In Device Capability	
	Faith In Technology		

2.10b	Affect Heuristic - Choice Directly Influenced By Feelings &	Adverse to technology more likely to focus upon harm and		
(14.14; 19.22)	Unrealisation Of Tendency To Avoid. Lack Of Trust In Technology.	struggle to recall benefits. Bewildered By & Doesn't		
	Describes substitution of answer to a difficult Q ie what do I	Understand Terminology Re Cardiac Condition, Treatment,		
	think with answer to an easier Q ie how do I feel (K-P139)	Technology		
	Fear Of Technology			
3	COLLECTIVE Decision Making			
3.1	Passive DM No evidence	Dr only decided (Prob need to dismiss)		
3.2	Passive Informed	Well informed but Dr decided or highly influenced		
3.8	Accepts Dr's Recommendation As The Best Option			
3.3	Shared / Collaborative DM	Joint info / deliberation / DM		
3.4	Active Informed	Pt decided but acknowledges Dr opinion		
3.5 & 3.7	Accepts / Takes Responsibility For Making Decision / Choice			
3.5	Active DM (Prob need to dismiss)	Pt decided without Dr involvement		
3.6	Ball In Patient's Court			
4	Decisional Control Preference			
4.1	Desired Control Preference	Level of desired control		
4.2	Actual Control Preference	Level of actual control		
5	Decisional Regret			
5.1	No Regret / No Doubt / Sure	No regret / doubt decision		
(7.4)				
5.2	Regret	Regrets / doubts decision		
6	PATIENT JOURNEY & INITIAL RESPONSE	PMH and current journey		
6.1 & 6.2	Presenting Complaint & Learning About Their Condition	Recent symptom history. Tests, investigation, diagnosis.		
6.3 (14.1)	Sudden Realisation / Acknowledging / Perceived Severity /	Accepting Problem / Situation / Here & Now / Coming To		
19.12	Seriousness Of Cardiac Condition As Recognised / Determined	Terms With It.(NB This may include lack of symptoms for		
6.7	By Symptoms / Problem Severity. Coming To Terms /	some) eg Emotional effect of symptoms pre		
	Confronting The Situation. Evidence Of Impact Upon ADL's.	device Only L4 & C17 mentioned		

6.5	Initial Device Recommendation Device Disscussed In Terms	Who, how & when first mentioned. Especially if framed in
(6.4; 18.3 & 18.8)	Of Mortality Or Symptom Benefit Benefit Bias Framing	terms of benefit with no obvious inclusion of possible risks,
		harms, complications
6.6	Sudden Realisation Of The Risk Of SCA	Specifically shocked & upset to realise that their cardiac
		condition increases their risk of SCD
6.8a	Initial Reaction - Surprise	
(14.3)		
6.8b	Initial Reaction - Shocked	
6.8c	Initial Reaction - Matter Of Fact, Relief	Come day go day. Better than nothing, alternatives or
		continued montoring
6.8d	Initial Reaction - Fear, Frightened, Scared, Apprehensive, Upset	
6.9	Emotional Response - Introspection	Initial emotional, inward response
14.12	Feels In Control Of Emotional Responses	
6.10	Seeing Treatment Plan As Series Of / Stages / Levels Of	
	Seriousness / Complexity	
8	KNOWLEDGE Of Cardiac Condition:-	
8.1	Well Informed & Understands Cardiac Condition	
8.2	Acknowledges / Demonstrates Lack Of Understanding At	
	Consent	
8.2a	Acknowledges / Demonstrates Lack Of Understanding At Decision	May be uninformed when accepts but informed at consent
9	Evidence Of KNOWLEDGE / INFORMATION Of Device Received:-	Reason for implant
9.1	Indication & Type Of Device	Device type
9.2	Device Role & Function - what it does & does not do	What it should do
9.3	Shock Therapy - Discussed - Aware of What It Is Like	Thought of shock therapy
(18.15)		
9.4	Under Optimistic Expectation	Plays down device capability
9.5	Over Optimistic Expectation - Excessive Confidence	Unrealistic, excessive faith in device capability. Technology
19.19	Hope & Belief In Device Capability	'halo' effect. See also 2.10a
9.6 (18.7) & 7.6 &		Least undesirable choice / option
19.23 & 21.13	Device Lesser Of The Evils ie Other Options	?? Preference For Alternatives Inc Watch & Wait See also 6.10

9.7	Realistic Expectation	
10	KNOWLEDGE Of Physical Side Effects & Complications	
10.1	Preparedness For Implant Operation	
10.2	Not fully Prepared For Procedure	
10.3 (18.4)	Awareness Of Possible Physical Harms / Side Effects / Complications Discussed eg Pain, Infection, Bleeding, Diaphragm Pace, Lead Displacement etc	Physical complications
<b>11</b> (18.13)	KNOWLEDGE Of Potential Psychological Impact	
11.1	Discussed & Aware Of Psychological Impact - Anxiety	
11.2	Discussed & Aware Of Psychological Impact Depression	
<b>12 (</b> 18.12 <b>)</b>	KNOWLEDGE Of Social Impact On:-	Effect on social life
12.1	Discussed & Aware Of Body Image Issues	
12.2 & 21.3 & 22.12 (18.11) 12.3	Discussed & Aware Of Impact On Driving / Flying / Social Impact & Potential Limitations Of Device On Driving Longer Term Discussed & Aware Of Limits On Sports Activity	See this also as a device concern
12.4	Discussed & Aware Of Sexual Activity Only mentioned by C21	
12.5	Information Or Lack Of For Family Only mentioned by W18	
<b>13</b> 15.3 (18.10)	Discussed & Aware Of Impact On Work & Economic Impact	Work impact : Returning to work
18.17, 22.9, 22.10	Knowledge And Concerns Related To End Of Life & Deactivation	
7	FACTORS INFLUENCING DECISION To Accept Or Decline A Device	
7.1 (19.3)	No Choice, Control Inevitability Of Situation, 'No Choice'	
7.2 & 19.8 (19.1 + 20.8)	Drs / HCP Approach Suited Patient Leap Of Faith ie 'a belief in something uncertain' Trust & Confidence In Dr / HCP's Exertise /	To do something even though not sure it is right or will succeed Trust, faith. confidence, Dr / HCP is expert

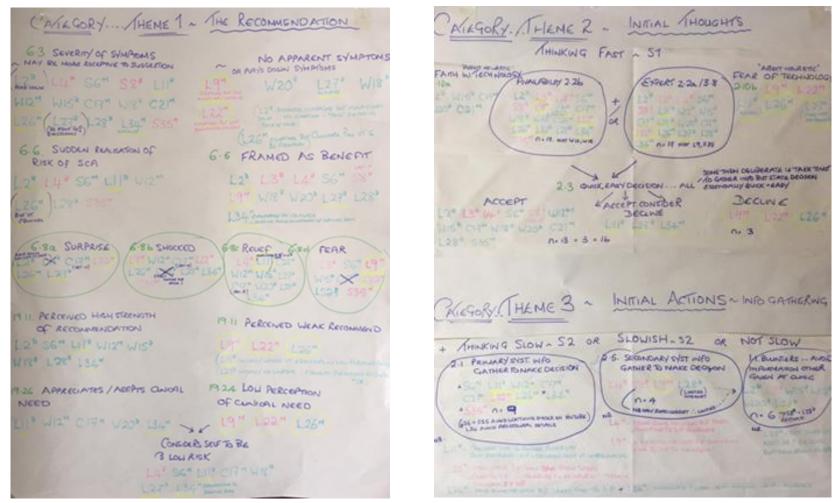
20.6	Preference For Openness, Honesty, 'Straight John Bull', Blunt		
20.7	Responds To Reassuring, Approachable, Pleasant, Thorough Manner 'Halo Effect'	Halo Effect - Exagerated emotional consistency, Like Dr & Dr approach enhances overall impression of the Dr (K-P82)	
20.9	Poor Communication Or Healthcare Experience	Bad experience affected confidence and trust in HCP's or NHS	
14.9 (20.10)	Sense Of Feeling Lucky Or Privelaged And Grateful Praise & Admiration For HCP's & NHS. Faith In NHS	Demonstrates appreciation, gratitude	
19.11	Perceived Strength Of Recommendation		
19.24; 21.10; 21.11 21.12	Underestimate / Low Perception Of Need ie Unnecessary Uncertainty Of Outlook / Condition - Not Convinced Of Need Not A	Don't believe / not convinced of the need for device	
19.26	Appreciation & Acceptance Of Clinical Need		
19.27	The Type & Amount Of Information Received Provides Positive Reinforcement		
18.2	Too Much Or Lack Of Information Received Or Understood	Didn't receive or can't recall or didn't understand	
18.5	HCP Assessment Of Patient K&U, Prefs		
18.6	Mode Of Information Exchange	Structure / clarity / thoroughness or conflict of information received	
18.9	Need For Reassurance		
7.3	Having / Given Time To Think		
14	PERSONAL OUTLOOK & CHARACTERISTICS		
14.2; 14.6 & 16.1	Denial / Burying Head In The Sand / Playing It Down Akin To Appraisal Focused Coping (Adaptive Cognitive) (Tends to be adaptive coping)	Denies a problem; Plays it down, dismissed from thoughts, not confronted. Modifies thinking eg denial, distancing self from problem, alter goals, see humour in situation esp women	
14.5 & 16.2	Feels In Control Of Own Situation & Well Being Akin To Problem Focused (Adaptive Behavioural) ie Take Control, Info Seeking, Evaluate Pros & Cons (Adaptive coping). Occupation Focused ie Focus Upon Activity Which Generates Positive Feedback	Deal with cause of problem by gathering information, learn new skills (Folkman & Lazarus) Link to 2.1; 2.5 & High Monitoring	

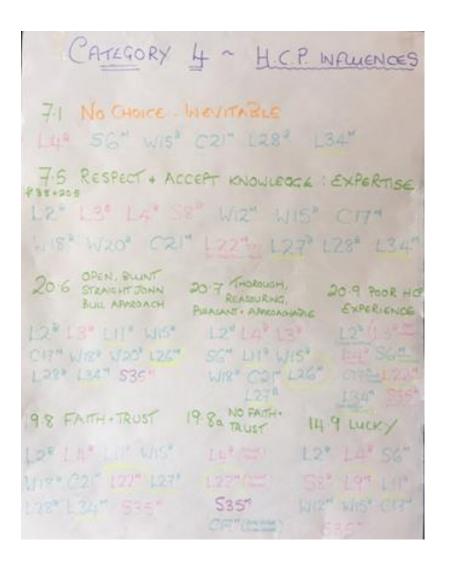
14.7; 14.7b & 16.3	Not Facing Facts, Running Away From The Evidence,	eg Distraction, disclaiming, avoiding, distancing, sensitisation	
	Procrastinating, Avoiding		
	Akin To Emotion Focused ie Change Personal Emotional Reaction		
	(Tends to be maladaptive)		
	No Symptoms So No Problem		
14.3	Matter Of Fact		
14.4	Optimism	Optimistic disposition	
14.8	Fatalism / Stoicism	What will be, will be	
14.10	A Worrier, Panicker		
14.11	Easy Going, Not A Worrier, Doesn't Panic		
14.15	Sense Of Desired Extra Vigilance		
14.16	Desire For Best Possible Option - The Rolls Royce Option	Link to 2.10a	
14.17	Lack Of Confidence Due To Illhealth Experience		
14.18	Compliant Only L2, C17 & L28		
14.19	Non Compliant Only L2		
15	PERSONAL GOALS	What are the patients goals	
15.1;	Desire For Life Longevity, Prolonging Life, Avoid Early Death	Living longer, staying alive	
15.6; 23.1; 23.2;	Valueing Life And Removing Threat Of Death		
(19.2)	Fear Of Death (SCA / SCD) Symptoms; Operation		
	Psychological Impact of Knowing SCA / SCD Risk		
15.7; (19.14 + 19.15)	Fear Of Worsening Symptoms Desire For Relief From		
15.8 & 23.3	Symptoms Quality Of Life (QOL) Most Important		
22.1	Fear Of Procedural Issues ie Operation eg pain, lying still, being		
	conscious, device testing		
15.2	Family Influence Upon Decision	Spouse recommendation	
(19.16)			
15.4	Lifestyle Choices : Health Behaviour	Desire to return to activities	

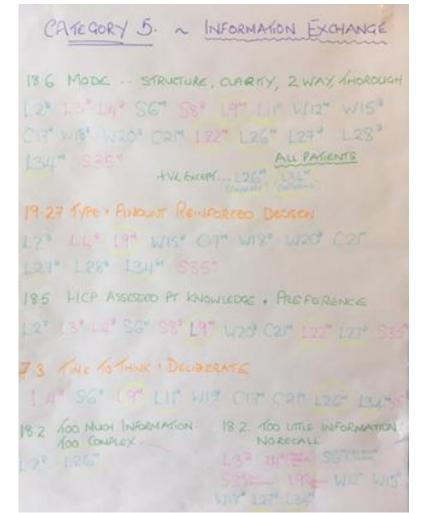
15.5	Patient Values, Preferences and Opinion		
19	DEVICE RELATED FACTORS		
19.4	Accept Versus Decline - Weighed Up / Balanced Pros / Benefits Of Having Versus Not Having	Considered The Balance Of Benefit / Harm Of Having A Device Versus Not Having	
19.6	No Brainer	Why wouldn't you?	
19.7 (19.18)	The Device Benefits / <u>Pros Outweighed Cons</u> / Unknown Potential Harm Of Having	Accepts Risks / Potential Side Effects Associated With having The Device	
21.16	The Device Harms / <u>Risks Outweighed Pros</u> / Benefits Of Having	Therefore decline	
19.10	Insurance, 'Safety Net', Security Blanket		
19.17	Rather Try Device And No Benefit Than Refuse	Better than nothing	
19.19 (18.14)	Risk Profile, Risk / Odds Ratio Discussed		
19.20	Age	Being young or old	
21.1 & 21.2 <b>&amp; 22.4</b>	Limitations Of Device On Daily Activities & Social Life		
21.4	Limitations Of Device On Sports Activity		
21.5	Emotional Concerns - Anticipatory Anxiety (& Depression)	Anxiety, depression, fear, PTSD, anticipatory anxiety	
21.6 (22.7)	Fear / No Fear Of Shock Therapy		
21.7; 21.8; 21.9	Pref Quality Rather Than Quantity Of Life Perceived Negative Impact Upon QOL	As a reason to decline	
21.14	Device Type eg ICD, S-ICD, CRT-D & Size		
21.15; 22.2; 22.3 21.17	Fear Of Complications, Things Going Wrong eg Infection Risk, Bleeding, Lead Displacement Planning & Logistics Of Pre Op Waiting & Admission		
22.4; 22.11	Long Term Implications eg Replacement; Battery Change; Malfunction; Device Recall		

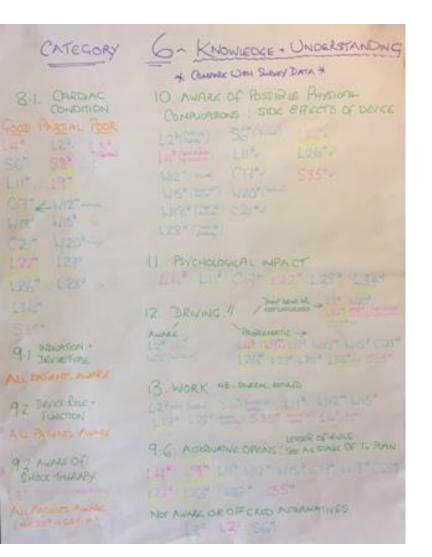
22.5; 22.6	It Not Working ie Doing What It Should Do	
	Gaining No Benefit Only L26	
22.8	Living With A Device / Reluctance To Have Invasive Intervention	
	/ Unwanted Reliance Upon Technology	
17	Biggest Influence - Who	
17.1	Biggest Influence - What	
25	Use Of Analogy	     
24	ACTUAL OUTCOME	
24.1	Realisation Of Enormity Of Decision	
24.2	Benefits Realised	     
24.3	Worse Off	
24.4	Experienced Side Effects	     
24.5	Benefits Not Realised	     
24.6	Beginning To Accept & Forget It's Presence	1
24.7	Ongoing Faith In Technicians 'Tweaking' To Gain Further Improvement	
24.8	Focus Upon Minor Issues eg ID card	
26	Interviewer Input / Advice / Questions Answered	



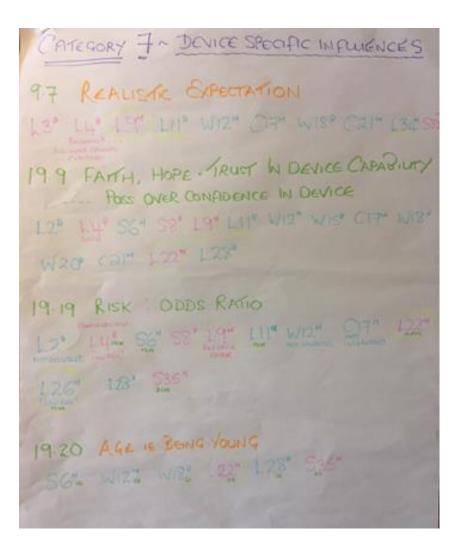








CATEGORY 7- DEVICE SPECIFIC INFLUENCE 9 196 NO BRAINER 19 10 INSURANCE, SECURITY BUANKET 194 BANANCE BENEFOR Rick TO HAVE & HAVE NOT 197 DEVICE BENERIT > 21-6 DEVICE RICK > DEVER 12" LH' SG" LH' JIZ" CIR" 122" L9" L30 CITA WIS LOS" 671 127 19 17 BETTER SOMETHING THAN NOTHING 12" 14" 52" CT 127" 128"



#### **10. The Framework Matrix Version 3**

Aim 2	The Process (	Of Decision-making	5				
Theme	1 The Reco	mmendation					
ID	Patient Characteristics	6.3, 6.7 State Dependence - Severity Of Symptoms <mark>Or Not</mark>	6.8a&b&d Initial Response - Surprised / Shocked / Fear / Upset	6.8c Initial Response - Relief Or Matter Of Fact	6.6 Realisation Of Risk Of SCA & Thus 19.24, 19.26 Appreciation Of Clinical Need	19.11 Perceived Strong Or Weak Recommend	2.3 Speed & Ease Of Decision ie Quick & Easy
Aim 2 T Theme		Of Decision-making oughts And Action					
ID		2.2a, 2.9 Heuristic Information Gathering - Respect & Accept	2.2b Availability	1.2 No Desire / No Effort		1.1, 2.1, 2.5 Systematic	
	Patient Characteristics	Knowledge & Submission To Expert	Heuristic Information Gathering - Self & Others	/ Avoidance Of Information	2.7 Uncritical Acceptance	Information Gathering	
Aim 2 The Process Of Decsion-making Theme 3 Subsequent Thoughts And Actions							
ID	Patient	15.1 State Dependence - Fear Of Death, Prolonging Life Most	15.7 Symptom Relief &	19.4 Balance Benefit :	19.7 Device Benefits >		21.7, 21.8, 21.9 Quality Of Life More Important
	Characteristics	Important	Improving QOL	Harm Of Have : Have Not	Risks	21.6 Device Cons > Pros	Than Quantity

Aim 2 The Process Of Decision-making											
Theme	4 Collectiv	e Participation									
		3.2, 3.8 Passive Deferral Of Final Decision ie	3.4, 3.5, 3.7 Active								
ID		Accepts Expert	Informed ie Accepts								
	Patient	Recommendation As	Responsibility For	3.3 Evidence Of SDM /	4.2 Actual Decisional	3.6 Balls In Patient's					
	Characteristics	Best Option	Decision From Advice	Collaboration	Control	Court					
Aim 2	The Process (	Of Decision-making	5								
Theme	5 Endorsing	g The Decision									
meme											
	Patient	19.17 Better Than	19.6 No Brainer ? No Choice, Inevitability		19.24 Optimism Bias-Low Perception Of Need &/or Low Risk Of Needing	5.1, 5.2 No Doubt / Some					
ID	Characteristics	Nothing	Of The Situation	19.10 Security Blanket	Therapy	Doubt / Regret					
Aim 3 Information Exchange And Recall											
Theme	1 Gathering	Intelligence	1	1	1	1	1				
ID		20.6 HCP Approach -	20.7 HCP Approach -	6.5, 7.1	18.6 Mode Of Exchange -	19.27 Type & Amount Of					
	Patient	Open, Blunt, 'Straight	Pleasant, Thorough,	Recommendation	Clear, Structured, Two	Information - Positive					
	Characteristics	John Bull'	Approachable	Framed As 'Benefit Bias'	Way	Reinforcement	19.19 Risk Profile				

Aim 3 Information Exchange And Recall												
Theme 1 Gathering Intelligence												
meme	I Gathering	intelligence										
		18.5 Degree To Which										
ID		HCP Assessed Patient		18.2 Too Much Or Lack Of								
	Patient	Knowledge &		Information = Not								
	Characteristics	Preference	7.3 Time To Deliberate	Understood Or Recalled								
					1	<u> </u>	<u> </u>					
Aim 21	nformation I	Evenance And Rec										
		Exchange And Reca										
Theme	2 Level Of H	(nowledge & Unde	erstanding			-						
						10 Well Informed - Poss						
		6.1, 6.2, 8.1 Well				Procedural & Physical						
ID		Informed - Cardiac	9.1 Well Informed -	9.2 Well Informed -		Complications Pre	11 Well Informed - Poss					
	Patient	Condition Not Some	Device Indication & Type	Device Role & Function	9.3 Awareness Of Shock		Emotional Complications					
	Characteristics	Well	Not Some Well	Not Some Well	Therapy Not Some Well	Infection Not Some	Not Some Well					
Aim 3 I	nformation I	Exchange And Reca	all									
		(nowledge & Unde										
meme	2 Level OI I											
		12, 13 Well Informed -										
ID		Impact On ADL, Work,				6.10, 9.6 Part Of A Plan,						
	Patient	Sport, Sex, Travel Not		How Well Informed @	How Well Informed @	Lesser Of The Evil						
	Characteristics	Some Well	Felt Well Informed		Consent Not Some Well							
	characteristics			Decision Not Some Well	consent Not some Well	options						

	-		-	-				
Influer	ntial Factors				Influential Factors			
Theme	1 The Healtl	hcare Professional			Theme 2 The Tec	hnology		
meme					2.10a/b Halo Effect -			
					Faith, Hope & Trust In			
ID		7.2, 19.8 Faith, Trust &	14.9 Sense Of Privelage,		Technology / Device			
	Patient		Luck, Grateful, Praise For		Capability Excess	9.4, 9.5, 9.7 Realistic /		
	Characteristics	Not	& Faith In NHS	20.9 Poor HC Experience		Unrealistic Expectation		
	Characteristics							
nfluer	ntial Factors							
Theme	3 Device Sp	ecific Issues And C	oncerns					
	•							
ID			21.1, 21.4 Limitations On	22.1 Fear Of Procedure	21.15 Physical Issues &	21.6 Fear Of Shock		
	Patient	12.2 Impact On Driving		eg pain, lying still, being		Therapy Anticipated		
	Characteristics		sport, sexual	conscious, device testing		Anxiety		
	enardeterioties				incetton, sear, ramp	, unice cy		
nfluer	ntial Factors							
Theme	3 Device Sp	ecific Issues And C	oncerns					
				22.8 Living With A Device				
				/ Reluctance To Have				
ID		22.4 Long Term Concerns		Invasive Intervention /				
טו	Patient	eg battery life,		Unwanted Reliance	18.17 End Of Life &	21.17 Planning &		
	Characteristics	mairunction	21.14 Device Type & Size	upon rechnology	Deactivation	Logistics Of Procedure		

	-			-							
Influencing Factors											
Theme	4 Personal C	Characteristics									
		14.2 Denial, Burying	14.7 Running Away,								
		Head, Playing It Down ie	Procrastinates, Not								
ID		Either Deny Problem Or	Facing Facts, Avoid								
	Patient	Minimise Risk To Them	Unpleasant Info eg								
	Characteristics	Dissociate from it	Shock Therapy	14.3 Matter Of Fact	14.4 Optimist	14.8 Fatalist, Stoic					
Influen	cing Factors										
		Characteristics									
meme			I			1					
		14.5 In Control Of Own		14.15 Desires Extra							
ID		Situation. Resolute In			14.16 Desires Best						
U		DecisionProblem	14.10, 14.11 Worrier Or	Vigilance; Extra ProtectionNB Security	Possible Option - Rolls	14.17 Lacks Confidence					
	Characteristics		Not	Blanket	RoyceSee Analogy	Due To Illness	19.20 Age				
	characteristics	locused	Not	Dianket	Noyce See Analogy	Due to inness	13.20 Age				
	cing Factors										
Theme	5 Who & W	hat									
ID											
	Patient	15.4 Lifestyle Choices &	15.2 Family Influence	17 Biggest Influence -	17.1 Biggest Influence -						
	Characteristics	Health Behaviour	Upon Decision	Who	What						

## 11. Examples Of Indexing The Data Using Case Based Approach

Theme colours correspond with A.2 Framework Matrix

			THEMES	CODES
		Yeah it was in the balance. Yeah I'd have I think in retrospect now looking back I'm very		
		happy to have the reassurance and so probably even if I had decided at the time a few		
		months ago not to go through with it I would probably be regretting it by now I don't		
L11	111	know		<b>5.1</b> ; 19.4; 19.7; 19.10; <b>24.2</b>
		Yes around the transvenous there was definitely a it's a slightly more loaded set of		
		options in terms of not the short term and the operation and that sort of thing that's just		
L11	112	something you submit to and you go through but in terms of the long term really		9.1; 19.7; 21.14
		Whereas a subcutaneous definitely for me, because I mean I was in that risk range umm 7.9		19.7; 19.19; 19.24; 19.26;
L11	113	I'm not in the you really really should I'm in that yeah it's a balancing act		21.14
		And I had a fairly frank conversation with Conultant and Consultant had said that he that		
L11	114	if it was him Cos you always do that sort of conversation don't you		2.2a; 3.4; 20.6
		He said that up to the point where I had my personal episode where I almost hit the floor		
		he was saying that he probably wouldn't having had the equivocal probably not but having		
L11	115	had that sort of fright possibly would himself		2.2a; 19.11; 19.26
		Umm and then when it was almost like the fall back position of the S-ICD rather than the TV $$		
L11	116	that was for me that was kind of let's get it over with		2.2a; 2.3; 9.1; 21.14; 19.26

			THEMES	CODES
		And you know she said oh but Mr W15 we've got the blood going down on that side to what		
W15	33	is basically the scarred area, the dead part of the heart from 9 years ago right		6.2; 6.3; 8.1
W15	34	Because obviously there was some damage of course		6.2; 6.3; 8.1
W15	35	Umm and I understood that and completely, totally accepted that fact		6.2; 6.3; 8.1
		But she said you know well it's not travelling that way but it's not travelling that way so it		
W15	36	wouldn't be travelling that way anyway Mr W15		81
		So the one on the other side, whatever that's called, you're probably obviously more		
W15	37	knowledgeable than I am of course, was absolutely fine		8.1
W15	38	And just with a little something there as well that I can notice on the screen		81
		And she said, oh well that's not absolutely perfect she said but to be honest with you it's		
W15	39	something that doesn't concern me personally		8.1; 19.8; 20.5
W15	40	Which I took as being obviously her saying she's not bothered then I'm not bothered		2.2a; 7.2; 7.5; 19.8
		Cause when you are dealing with people in the know, whatever profession you are in, if		2.2a; 7.2; 7.5; 19.8; 20.5;
W15	41	they say to you there's no worries, there's absolutely nothing to concern yourself about		20.7
		Whether you are sky diving or whatever you are doing you put your trust in people don't		
W15	42	you		2.2a; 7.2; 7.5; 19.8; 20.5
W15	43	An airline pilot, captain puts his trust in the technology that's he's flying to on holiday		2.2a; 7.2; 7.5; 19.8; 20.5
W15	44	So we all have that leap of faith don't we		2.2a, 7.2; 19.8

			THEMES	CODES
		I actually received a letter for surgery and I had to ring them up and ask them what it was		
L22	63	for		6.4; 19.8a; <b>20.</b> 9
L22	64	And it was actually for ICD implantation and I was like what (shocked)		6.4; 6.8b; 6.10; 17; 19.8a; 20.9
L22	65	And to me in my consultation it had been raised as you know as it always kind of is		6.4; 6.8b; 6.10; 17; 19.8a; 20.9
L22	66	АМК		
L22	67	But you had clearly not had any in-depth conversation about it?		17; 20.9
L22	68	L22		
L22	69	No and so that was a bit of a shock		6.4; 6.8b; 17; 19.8a; 20.9
L22	70	And so of course I said no I'm not agreeing		2.3; 3.4; 17; 19.8a; 19.24
L22	71	Well one, the day you've booked me in on I'm actually in London umm so no		19.24; 21.11
L22	72	And also no and that was when		
		But that was a shock because it was like you know umm I'm assuming that my cardiologist,		
L22	73	to me it was my cardiologist saying I think you need one		6.4; 7.5; <b>14.2; 14.6;</b> 19.24
		Which kind of freaked me out because obviously you know I take their opinion very		
L22	74	seriously because they are the experts		6.4; 6.8d; 7.5; 19.24
		Umm and so I, kind of a weird result of it was that you know, kind of then you do feel not		
L22	75	great because you are panicking about you know		6.4; 6.8d; 7.5; <b>14.2</b> , 19.24

# 12. Examples Of Charting The Data

		Of Decision-making						
Theme	1 The Reco	mmendation				1		
						6.6 Realisation Of Risk Of		
		6.3 State Dependence -				SCA & Thus 19.26		
	Patient	Severity Of Symptoms	6.8a&b Initial Response -	6.8d Initial Response -	6.8c Initial Response -	Appreciation Of Clinical	19.11 Perceived Strong	2.3 Speed & Ease Of
ID	Characteristics	Or Not	Surprised / Shocked	Fear & Upset	Relief Or Matter Of Fact	Need	Or Weak Recommend	Decision ie Quick & Eas
								It was a no brainer really it was
Р	Worrier.							just yeah as soon as he
L28 <sup>B</sup>	House proud and		Not a shock but it was, it					mentioned' 73; 'Such an easy decision that you knowmake
56	concerned		brought it home a little				Because they are blunt	sure that I'm about as it were
IHD	couldn't clean so		bit more how serious			You are at risk of sudden	and they come out and	give me a better chance of beir about' 128 'More or less after
	accepts ICD.		the condition was' 58;			death you start thinking	say it as it is well then	the first time he spoke to me
ICD	Psychologically	Threatened with	'This sudden death thing	Umm Phhh to be honest		Phhh maybe it is a little	you react to as it is you	about it, when he first
	more relaxed post implant	transplant. Symptoms	it shocked me at first'	it was oh s*** (laughing)	1	bit more serious' 33-37;	know, or that's how I	mentioned itright I'll go alon those lines'133; 'I'll just go with
	post implant	+ 22	205	42	Not evident	45; 47; 51; 58	was anyway' <b>205-208</b>	what they say'136; 229
	Onen te	Symptoms ++ Heathrow! 31;						
<u>L</u> 34 <sup>M</sup>	Open to suggestion,	'I can do very little that involves real strenuous				There was umm sort of a	Nurse said there isn't a	He basically said in his
68	'chatty',	activity now because within	Read about driving -			10% per annum	positive outcome from	opinion this was
	enquiring.	5 minutes I'm out of breath,	'Now I really			likelihood of having a	this if that happens to	probably the correct
IHD	Resourceful &	completely out of puff' 66-	shuddered out of horror		Initially - 'So yeah I was	further heart attack and	you, except one way you	
ICD	knowledgeable.	69 'I really felt shocking and really was struggling	I was staggeredit's a		sort of more or less open	this thing might save	live and the other way	booklet and packed me
		just to get through day to	complete life changer		to positive suggestion'	me, umm save my life'	you probably don't' 171-	off homeOK so all is
		day' <b>78</b>	for me that' 131-138	No Comment	70	38	181	fine at this point' 52-56
1						Listening to what they had		I'd looked it all up and got a lot of
						said about the cardiac		leaflets before I came for the day
S35 <sup>™</sup>	Breadwinner,					arrest bit and the risks		at the clinic when she explained so Ihad already got, so Ihad
45	concerned about	Symptoms ++ despite				there I think I would have gone at the very least for a	Listening to what they	made my mind up probably 90% and then after she had gone
	driving	alternative options 'It				defib you know' <b>80</b> ; 'That bit	had said about the	through everything obviously we
DCM	Resourceful &	won't cure what I've got				I think upset me a bit	cardiac arrest bit and the risks there I think I	had the addition of the defib on that day and so that was anothe
CRT-D	knowledgeable.	and it could deteriorate as life goes on umm it's				because I had not realised	would have gone at the	thing to consider 165 'So how
		not a cure' <b>23-28; 38; 78;</b>	It did shock me a bit	That bit I think upset me		that I was so at such a	very least for a defib you	long did it take you to decide? N long' 173 'So yeahat that poin
		not a cure 23-28; 38; 78; 79	actually' <b>97</b>	a bit' <b>95</b>	Not evident	high risk of cardiac arrest' 95-98	know' <b>98</b>	you know it was quite an easy decision' <b>178</b>
								Only fleetingly when I
	A		When he actually told			He said an ICD won't improve your heart function I was at risk of	No for my heart function	first sat and thought and
S44 <sup>B</sup>	Anxious,		me I was still shocked			having a cardiac arrest' 16 'I went in to some sort of anxiety and I did	they said no, I mean I felt	I just thought do I really
	worrier.		because I thought to			end up back in hospital with a	fine I just felt OK in myself	do I really want an
61	Although negative M score		myself, I thought I was	That frightened me to		panic attack' 97 "I really just could not have it done you know if	so that came as a bit of a	operation you know,
DCM	does SIP and was		getting betterso I was	death' 'When		you're at a risk of a cardiac arrest I	shock to me to find out that they were going to, that he	then not for long really
ICD	resourceful and		quite shocked' 101-103 'I	someone's told you		think a cardiac arrest is something you don't really, it's not very often	wanted to do an ICD' 90;	but then again I didn't
ICD	knowledgeable	Symptoms ++ 'I couldn't	was still quite shocked	about a cardiac arrest it		you pull through them is it' 140 'He just said I'd be at increased	127 'Dr Consultant telling	really have a great deal
	in the wiedgeable	breathe I felt like I was	and still a little bit	is a little bit frightening'		risk of cardiac arrest because of	me that I needed it done	of time to think about it
		drowning' 43	devastated' 118	332	Not evident	my heart function' 151	280	299

#### Aim 2 The Process Of Decision-making

Theme	2 Mapping	The Landscape - Initial Thoughts And Actions (Thinking Fa	ast And Thinking Slow, Slowish, Not Kahneman, 2011)
ID	Patient Characteristics	2.2a Heuristic Information Gathering - Respect & Accept Knowledge & Submission To Expert Opinion (Link To Benefit Bias)	2.2b Availability Heuristic Information Gathering - Self & Others
W15 <sup>B</sup> 62 IHD ICD	Sociable 'Easy going' Open, 'chatty' Use of humour & analogy. Finds out more post implant	I took as being obviously her saying she's not bothered then I'm not bothered cause when you are dealing with people in the know, whatever profession you are in, if they say to you there's no worries, there's absolutely nothing to concern yourself about ' <b>40</b> 'I rely on the expert advice of people and that makes me feel comfortable, it makes me feel calm and well the rest is easy passed that point' <b>178</b> 'I think that all the advice to me was leaning towards their recommendations as they went along as part of their dialogue' <b>194</b>	Not evident
C17 <sup>M</sup> 56 IHD CRT-D	Cancer history. Long cardiac history - stents x 3 - seasoned but compliant patient. Prefers Tx to watch & wait but not at any price. Resourceful & knowledgeable.	I'll obviously take clinical guidance, you're bound to aren't you Because you hope that the expert does have some credibility in their recommendations don't you?'I'm also aware that some are better than others' <b>392</b>	My wife had listened to a radio programme that was talking about people being depressed and anxious because they've got this thing that can go off, well from my point of view if it can go off if it needs to that's great' <b>190</b>
W18 <sup>B</sup> 61 Viral DCM CRT-D	Sociable 'Easy going' Regularly turns to wife for reassurance.	OK I might as well have it then you know I don't need it (emphasised) if I'd have needed it then fine there's no two words about it you get it done, but like she says it's like a safety valve isn't it, it's there if it's needed it'll do it's job' <b>179</b> 'So more or less ICD Nurse that put her input in as well which did make my mind up' <b>293</b> Didn't discuss deactivation - 'Well that'll be put to me I think at the time ' <b>335</b>	We actually watched a programmeon channel 4Asian gentleman who went in and it kept shocking him every 7 minutes because it had gone faulty apparently or they thought it had gone faultyhe says I'm not having it done nowl said, yes you are' <b>347</b>
W20 <sup>B</sup> 73 IHD CRT-D	-	It was Dr Consultant that said there is a new thing that's out umm a defibrillator which we think might benefit you' <b>55</b> 'I would think well Dr Consultant explaining you know what's available and because they knew that the pacemaker hadn't done anything' <b>151</b> 'So Dr Consultant was the most influential in terms of giving you the information? Yes' <b>169</b>	Did you find out a little bit more about what the box was and how it worked? Well I just thought that it was like an improved version of the pacemaker' <b>80</b>

#### Aim 2 The Process Of Decsion-making

<b>Theme</b>	3 Planning	The Journey	
ID	Patient Characteristics	19.7 Device Pros > Cons	21.6 Device Cons > Pros
C21 <sup>M</sup> 71 DCM, HF CRT-D	Quiet, reserved, some disappointment because not received expected benefit. Use of humour & analogy Resourceful & knowledgeable.	I couldn't think of many disadvantages really other than having something stuck in your chest umm and knowing that in so many years time it might have to be replaced' <b>402</b>	Not evident
L22 <sup>M</sup> 34 ARVC	Family history SCD. Deliberative but also impulsive. QOL > Quantity, unless clear evidence of need. Resourceful & knowledgeable yet blinkered to advice	I've considered S-ICD's in terms of psychological I mean for me the main benefit is psychological kind of like piece of mind, if worse case scenario happens you are protected but actually you know, he pointed out that some people who have them implanted have the opposite umm psychological impact, that they are worrying that they are going to go off' <b>141</b> 'I'm making my decision based on the fact of like do I or do not need it because if I need it then the complications and the annoyances of having to get checked up regularly, it doesn't matter because that's not actually going to factor in' <b>250</b> 'I don't think that would be a swinging factor for me because like you either need one or you don't, that's the issue fI need it I'll have it done and I'll deal with whichever complications arise' <b>286</b>	He sees them when they go wrong and that's basically a lot of what he sees so it was really interesting to get his view point on all the complications' <b>130</b> 'It's only factoring in at the moment because it's so, to me weak, if I need it I'll get it done it doesn't matter if it's going to be uncomfortable or annoying or whatever I'd have it done in terms of my symptoms and how I feel you know I'm doing fine' <b>250</b>
L26 <sup>M</sup> 55 HCM	Open, enquiring. Resourceful & knowledgeable. AED at home. 'Overkill' possible complications of long term device outweigh perceived benefit.	Critical to my decision was me trying to make my mind up about actually what had happened and how serious potentially that wasif I thought that the VT, potential VT incidents that I hadIf I'd got a sense that those were more serious my attitude to the device itself would be different, it would be very different' <b>211-214</b>	'I had more questions having done a bit of reading about the device and I'd read about people who'd had it and I had more specific questions about the nature of risks I mean consultant had been very upfront and he said yes it's a problemhow do you remove batteries and the device after ten years and how do you replace themyes there is an issue with the leads and the leads do grow over a bit' 112' Infection risks always a big one, they talked about the technology itself and that I remember thinking Oh umm that what you are dealing with is a device that makes its own judgment about when it needs to do things and that inevitably must mean that occasionally that may misinterpret what is happening and act in a way that doesn't help you' 119-122 'The potential 
L27 <sup>B</sup> 64 IHD ICD	Accepts lay position & relies on wife (ICU nurse) persuaded to have device. Initially couldn't see benefit, but then felt potential benefit outweighed risks.	The risks of having it in I saw were minimal and I could probably see the potential benefits of having it I thought well if I don't have it and something happens I'm going to regret that decision' <b>181</b> 'So benefits outweighed the risks was you're feeling about it? Ahha, yeah, yeah' <b>231</b>	Not evident

13. Examples Of Colour Coded Matrices Of Knowledge Recall Feeling Informed

Colour	Key – Levels Of Knowledge Recall Tables						
Red	Female						
Blue	Male						
М	High Monitor Scores						
В	Low Monitor Scores						
	Reconsidered Decision-making						
	Reinforced Refusal Decision-making						
	CRT-P Recipient						
	Well Informed						
	Some Understanding & Some Misunderstanding						
	Not Very Well Informed						
	Not Evident Within Transcript						

Level Of Knowledge Acquisition And Recall Associated With Leap Of Faith Decision-making									
Information Avoidance	L2 <sup>B</sup> 56 IHD ICD	L3 <sup>B</sup> 74 HF AF CRT-D	S8 <sup>B</sup> 80 AF, HF CRT-P	W15 <sup>B</sup> 62 IHD ICD	W18 <sup>B</sup> 61 Viral DCM CRT-D	W20 <sup>B</sup> 73 IHD CRT-D	L27 <sup>B</sup> 64 IHD ICD	L28 <sup>B</sup> 56 IHD ICD	
Cardiac Condition									
Device Indication & Type									
Device Role & Function									
Awarenes Of Shock Therapy			N/A						
Procedural & Post Implant Physical Issues			Not Evident					Unclear	
Emotional Impact	Not Evident	Not Evident	Not Evident	Not Evident	Not Evident	Not Evident			
Impact On ADL's, Work, Sport, Travel etc		Not Evident				Not Evident			

Level Of Knowledge Acquisition & Recall Associated With Reinforced And Reconsideration Decision-making												
Information Gatherers	L4 <sup>B</sup> 60 HCM ICD	S6 <sup>M</sup> 56 HCM S-ICD	L9 <sup>M</sup> 67 HF Refuse CRT- D (CRT-P)	<u>L11<sup>B</sup></u> 49 HCM S-ICD	W12 <sup>M</sup> 58 IHD ICD	C17 <sup>M</sup> 56 IHD CRT-D	C21 <sup>M</sup> 71 DCM, HF CRT-D	L22 <sup>M</sup> 34 ARVC	L26 <sup>M</sup> 55 HCM	<u>L34<sup>M</sup></u> 68 IHD ICD	S35 <sup>M</sup> 45 DCM CRT-D	S44 <sup>B</sup> 61 DCM ICD
Cardiac Condition												
Device Indication & Type												
Device Role & Function												
Awarenes Of Shock Therapy												
Procedural & Post Implant Physical Issues												
Emotional Impact		Not Evident			Not Evident		Not Evident		Not Evident		Not Evident	
Impact On ADL's, Work, Sport, Travel etc			Perceives Unable To Do Anything			Not Evident						

Feeling And Being Well Informed Associated With Leap Of Faith Decision-making

			·		Ũ			
Information Avoidance	L2 <sup>B</sup> 56 IHD ICD	L3 <sup>B</sup> 74 HF AF CRT-D	S8 <sup>B</sup> 80 AF, HF CRT-P	W15 <sup>B</sup> 62 IHD ICD	W18 <sup>B</sup> 61 Viral DCM CRT-D	W20 <sup>B</sup> 73 IHD CRT-D	L27 <sup>B</sup> 64 IHD ICD	L28 <sup>B</sup> 56 IHD ICD
Reported Feeling Well Informed			Not Evident			Not Evident		Not Evident
Appear To Be Well Informed @ Consent								
Seen By ICD Specialist Nurse Before Consent		Phone Only	Yes	No	Yes	No	Post	No ICD Nurse attempted but failed to contact by phone

# Feeling And Being Well Informed Associated With Reinforced And Reconsideration Decision-making

Information Gatherers	L4 <sup>B</sup> 60 HCM ICD	S6 <sup>M</sup> 56 HCM S-ICD	L9 <sup>M</sup> 67 HF	L11 <sup>B</sup> 49 HCM S-ICD	W12 <sup>M</sup> 58 IHD ICD	C17 <sup>M</sup> 56 IHD CRT-D	C21 <sup>M</sup> 71 DCM, HF CRT-D	L22 <sup>M</sup> 34 ARVC	L26 <sup>M</sup> 55 HCM	L34 <sup>M</sup> 68 IHD ICD	S35 <sup>M</sup> 45 DCM CRT-D	S44 <sup>B</sup> 61 DCM ICD
Reported Feeling Well Informed					Not Evident					Not Evident		
Appear To Be Well Informed @ Consent			For CRT- P Only									
Seen By ICD Specialist Nurse Before Consent		HF Nurse Only		Morning Of Procedure	Yes		Yes & HF Nurse	Yes		Patient Contact ICD Nurse x 2	ICC Nurse Only	Yes

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