

**A Social and Anthropological Analysis of
Conversion Period and Later Anglo-Saxon
Cemeteries in Lincolnshire and Yorkshire**

Volume III

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Appendix IV: Discussion of Alternative Adult Ageing Methods

This appendix discusses several ageing methods that were not used in the current research. They are described in turn, with a summary of the reasons for their exclusion. None was thought to increase the accuracy levels of age estimates significantly, many are destructive or time consuming to apply, and many often apply to skeletal elements unlikely to be preserved in archaeological material.

IV.1 Maxillary Suture Obliteration

The maxillary sutures close in a similar way to the cranial sutures (see Chapter 4, above). A method of age estimation based on the percentage of sutures obliterated was developed for use in forensic identification (Mann et al. 1987), although individuals could only be grouped into broad categories (Mann et al. 1991). Independent testing found that the method was easily reproducible, but the method was criticised for these broad age ranges (Gruspier and Mullen 1991). This method was not included in this analysis, as few archaeological maxillae were preserved well enough for its application.

IV.2 Root Dentine Transparency and Cemental Annulations

Many methods of age estimation using teeth other than dental wear (see Chapter 4) have been developed, with varying degrees of success. These are discussed in detail by Hillson (1996) and Whittaker (2000) and so only root dentine transparency (RDT) and cemental annulation methods will be discussed in this thesis.

Root dentine transparency (also known as root dentine sclerosis) was one of several age-related phenomena researched by Gustafson (1950). RDT is caused by the gradual infilling of dentine tubules with mineralised material and can be measured by taking a thin-section of a tooth and looking at it through transmitted light (Hillson 1996). This method has been revised

many times (Dalitz 1963; Johnson 1968; Bang and Ramm 1970), and studies have been carried out to determine whether it is possible to obtain results using half-sectioned and complete teeth (Solheim 1984; Lamendin et al. 1992). Solheim and Sudnes (1980:17) found that 'serious systematic errors were revealed in all methods' indicating that at present RDT is not an accurate estimator of age.

Dental cement attaches the periodontal ligament to the tooth root, and is laid down throughout life (Hillson 1996). When viewed under a microscope layers of cement can be seen, which are thought to represent yearly deposits (Whittaker 2000). In theory these cemental rings can be counted and added to the age of root formation to provide an age estimate, a method that initially showed much promise (Stott et al. 1982). This has not proven to be an easy process. Subsequent analyses have found that some teeth could not be analysed, and that the correlation with age was at best moderate (Lipsinic et al. 1986; Miller et al. 1988).

Cemental annulation and root dentine transparency do little to increase the accuracy of adult age estimates. Due to the time consuming nature of both methods and the necessary destruction of teeth it was decided not to use either in the present study.

IV.3 Structural Changes in the Proximal Femur and Humerus and the Complex Method

Age-related internal structural changes have been observed in the proximal femur and humerus (Hansen 1953-4; cited in Acsádi and Nemeskéri 1970). With increasing age a decrease in the trabeculation and pervasiveness of spongy bone, an expansion of the medullary cavity and a thinning of the cortical bone can be observed through radiograph or in longitudinal sections. These changes were divided into six phases of age related change by Acsádi and Nemeskéri (1970), using the earlier work of Hansen (1953-4).

Independently these methods both produce very wide age ranges with large degrees of overlap, however when combined with endocranial suture closure and pubic symphysis morphology (the complex method), a high degree of accuracy in age estimation has been reported (Acsádi and Nemeskéri 1970). Despite this, when the complex method was applied to the known-age skeletal collection from Christ Church Spitalfields, less than 30% of the individuals were aged to within 5 years (Molleson and Cox 1993). Due to the time-consuming nature of obtaining the necessary radiographs, or alternatively the destructive nature of cross-sectioning the bones, combined with the poor performance of this ageing method when tested on an independent sample, changes in the internal structure of the humerus and femur were not used for the present analysis.

IV.4 Fourth Rib Ageing and Vertebral Osteophytosis

The ends of the ribs articulate with the sternum through the costal cartilage and become increasingly irregular with age (Cox 2000). The potential of using this phenomenon as an ageing method was first noted by McKern and Stewart (1957), but it was not developed further until the 1980s (Isçan et al. 1984; Isçan et al. 1985; Isçan and Loth 1986). Nine phases of changes to the sternal end of the right fourth rib were observed, and correlated to age ranges. These changes were found to vary between the sexes (Isçan et al. 1984; Isçan et al. 1985), and appear to be population specific (Isçan et al. 1987).

The original authors found low levels of inter-observer error (Isçan and Loth 1986). However the method was found to have the highest level of inter-observer error out of those applied to the material from Belleville, Ontario (Saunders et al. 1992). The largest problem with fourth rib ageing, however, is the relative fragility of ribs (Waldron 1987). Ribs are one of the least well-preserved skeletal elements, and the identification of the sternal end of the fourth right rib can be problematic (Cox 2000), although it has been

suggested that both sides and the 3rd to 5th ribs can be used indiscriminately (Schwartz 1995). Sternal rib ageing was not included in the present analysis due to the low survival rate of ribs in archaeological collections, and the difficulties observed in identifying the correct rib.

Vertebral osteophytes or lipping around the rims of the vertebral bodies have been used to crudely estimate age. Osteophytosis was recorded by KcKern and Stewart (1957) on a scale of 0 to 3 (no lipping to maximum lipping). Unsurprisingly they only found grades 0 and 1 in their sample of young American males. Stewart (1958) applied this scoring system to a sample containing older males, but found that lipping was too variable to predict age accurately (Stewart 1958; cited in Krogman and Isçan 1986). This is probably because trauma or an arduous lifestyle in some individuals could accelerate the rate of osteophytosis. Vertebral osteophytosis was not included in the present analysis.

IV.5 Osteon Counting

When cortical bone is first formed it is made up of circumferential lamellar bone. Throughout life bone gets remodelled through the action of osteoclasts (bone destroying cells) and osteoblasts (bone formation cells). The action of these cells leaves characteristic 'osteons' or 'Haversian systems' (the ovoid shape of the osteoblast with an opening, or Haversian canal, in the centre for blood vessels and nerves), which are microscopically visible in the cross section of cortical bone (Ubelaker 1989b). The process of osteon formation continues throughout life, and by counting the numbers of complete osteons, fragmentary osteons, non-Haversian canals and the percentage of circumferential lamellar bone still present, an estimation of age can be obtained (Kerley 1965; Kerley and Ubelaker 1978). These observations are made at four locations at the periosteal edge of cortical bone on a thin-section of a femur, tibia or fibula (Kerley 1965). The regression equations used to

obtain an estimate of age have undergone several revisions, but the preferred ones are those of Kerley and Ubelaker (Schwartz 1995).

Osteon counting was compared with pubic symphysis ageing on a small sample (n=20) of the Christ Church Spitalfields collection (Aiello and Molleson 1993). The authors compared the method of Kerley (1965), using the regression equations of Kerley and Ubelaker (1978), with an alternative method that just counted osteons, devised for application with archaeological bones which are often damaged by diagenesis (Samson and Branigan 1987). They found that the locations used in the Kerley (1965) method were much more reliable for age estimation than those of Samson and Branigan (1987). However, osteon counting was no more accurate than pubic symphysis ageing for the Christ Church Spitalfields population (Aiello and Molleson 1993). This suggests that at present it is unnecessary to take samples for osteon counting, when non-destructive macroscopic methods can yield results equally as reliable. As a result, microscopic ageing techniques were not used in the present research.

Appendix V: Cemetery Data

This appendix contains tables presenting the osteological and funerary evidence utilised in this study. The age and sex codes are given in Tables V.1 and V.2 respectively.

Age	Age Name	Age Description
IN	Infant	Birth to 11 Months
YC	Young Child	1 to 6 Years
OC	Older Child	7 to 12 Years
ADO	Adolescent	13 to 17 Years
SA	Subadult	0 to 17 Years
YA	Young Adult	18 to 25 Years
YA-MA	Young to Mid Adult	18 to 45 Years
MA	Mid Adult	26 to 45 Years
MA-OA	Mid to Old Adult	26+ Years
OA	Old Adult	46+ Years
AA	Adult	18+ Years

Table V.1: Age categories used in analysis

Sex	Sex name
?	Sex Unknown
??F	Possible Female
??M	Possible Male
?F	Probable Female
?M	Probable Male
F	Female
M	Male

Table V.2: Sex categories used in analysis

YM 022	ST V	OC	?	1	Plain Earth	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N		
YM 023	ST W	OC	?	1	Unknown	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N		
YM 024	ST X		?	1	Plain Earth	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N		
YM 025	ST Y	AA	?	1	Plain Earth	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N		
YM 026	ST Z	AA	?	1	Plain Earth	N																			
YM 027	ST Z1	AA	?	1	Plain Earth	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N		
YM 028	ST Z2			1	Plain Earth	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N		
YM 029	ST Z3		?	1	Plain Earth	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N		
YM 030	ST Z4		?	1	Plain Earth	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N		
YM 031	ST 31	SA	?	1	Plain Earth	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N		
YM 032	ST Z6		?	1	Plain Earth	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N		
YM 033	ST Z7	AA	?	1	Plain Earth	Y	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N		UNDER GRAVE SLAB 59 - PLAIN SQUARE SLAB
YM 034	ST Z8	AA	?	1	Plain Earth	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N		
YM 035	ST Z9		?	1	Plain Earth	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N		
YM 036	ST Z10		?	1	Plain Earth	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N		
YM 037	CB I	AA	?	1	Plain Earth	N	N	N	N	N	Y	N	N	N	N	N	N	N	N	N	N	N	N		
YM 038	CB II	MA-OA	M	1	Coffin (Stain/Wood)	N	N	N	N	N	Y	N	N	N	N	N	N	N	N	N	N	N	N		
YM 039	CB III		?	1	Plain Earth	N	N	N	N	N	Y	N	N	N	N	N	N	N	N	N	N	N	N		
YM 040	CB IV		?	1	Plain Earth	N	N	N	N	N	Y	N	N	N	N	N	N	N	N	N	N	N	N		
YM 041	CB V			1	Plain Earth	Y	N	N	N	N	Y	N	N	N	N	N	N	N	N	N	N	N	N		UNDER SLAB 58 (YM 35)
YM 041	CB VI		?	1	Plain Earth	N	N	N	N	N	Y	N	N	N	N	N	N	N	N	N	N	N	N		
YM 043	CB VIIA		?	1	Plain Earth	N	N	N	N	N	Y	N	N	N	N	N	N	N	N	N	N	N	N		
YM 044	CB VIIB		?	1	Plain Earth	N	N	N	N	N	Y	N	N	N	N	N	N	N	N	N	N	N	N		
YM 045	CB VIII		?	1	Plain Earth	N	N	N	N	N	Y	N	N	N	N	N	N	N	N	N	N	N	N		
YM 046	CB IX	YA	M	1	Coffin (Stain/Wood)	N	N	N	N	N	Y	N	N	N	N	N	N	N	N	N	N	N	N		
YM 047	CB X			1	Unknown																				
YM 048	ST 1	YC	?	1	Stone-lined	Y	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N		STONE-LINED CUT UNDER DECORATED SLAB WITH HEAD AND FOOT STONES

Table V.6: Cemetery data for St Peter's Barton-on-Humber

Skeleton Number	Context	Age	Sex	Area	Distance from Church	Grave Type	Grave Cover	Stone Marker	Other Marker	Possible Marker	Charcoal Burial	Pillow Stones	Quartz Pebbles	Stones in Mouth	Other Stones	Artefacts	Notes
SPB 0030	716	OC	?	7	under	Plain Earth	N	N	N	N	N	N	N	N	N	N	
SPB 0425	1564	OA	M	7	under	Coffin (Stain/Wood)	N	N	N	N	?Y	N	N	N	N	N	CHARCOAL STAIN OF COFFIN
SPB 0433	1576	YC	?	7	under	Plain Earth	N	N	N	N	N	N	N	N	N	N	
SPB 0434	1289	MA	F	13	<5m	Plain Earth	N	N	N	N	N	N	N	N	N	N	
SPB 0495	1604	YC	?	3	<5m	Plain Earth	N	N	N	N	N	N	N	N	N	N	
SPB 0509	1600		?	7	under	Coffin (Stain/Wood)	N	N	N	N	N	N	N	N	N	N	NAILS
SPB 0510	1605	YC	?	3	<5m	Plain Earth	N	N	N	N	N	N	N	N	N	N	
SPB 0522	1606	YC	?	3	<5m	Plain Earth	N	N	N	N	N	N	N	N	N	N	
SPB 0524	3528	MA	M	3	<5m	Plain Earth	N	N	N	N	N	N	N	N	N	N	
SPB 0525	1609		?	3	<5m	Plain Earth	N	N	N	N	N	N	N	N	N	N	
SPB 0526	1610		?	7	under	Plain Earth	N	N	N	N	N	N	N	N	N	N	
SPB 0537	4096	AA	M	12	<5m	Coffin (Stain/Wood)	N	N	N	N	N	N	N	N	N	N	
SPB 0541	4097	MA	M	12	<5m	Coffin (Stain/Wood)	N	N	N	N	N	N	N	N	N	N	
SPB 0544	4099	MA	?	12	<5m	Plain Earth	N	N	N	N	N	N	N	N	N	N	
SPB 0545	3527	ADO	?	4	<5m	Coffin (Stain/Wood)	N	N	N	N	N	N	N	N	N	N	WELL PRESERVED COFFIN & LID, 2 ROVES
SPB 0546	4102	YA	F	13	<5m	Coffin (Stain/Wood)	N	N	N	N	N	Y	N	N	N	N	2 PILLOW STONES
SPB 0551	1620	IN	?	3	<5m	Plain Earth	N	N	N	N	N	N	N	N	N	N	
SPB 0552	1589	OA	F	7	under	? Coffin	N	N	N	N	N	N	N	N	N	N	COFFIN INFERRED FROM STRAIGHT NARROW GRAVE CUT
SPB 0554	1621	MA	M	9	<5m	Coffin (Stain/Wood)	N	N	N	N	N	Y	N	N	N	N	
SPB 0558	1617	OA	F	7	under	Plain Earth	N	N	N	N	N	N	N	N	N	N	LARGE RECTANGULAR GRAVE

SPB 0948	3120	OA	F	11	<5m	? Coffin	N	N	N	N	N	N	N	N	N	N	N	N	SQUARE GRAVE
SPB 0954	4017	YC	?	13	<10m	Plain Earth	N	N	N	N	N	N	N	N	N	N	N	N	
SPB 0955	1796	YC	?	4	<5m	Coffin (Stain/Wood)	N	N	N	N	N	N	N	N	N	N	N	N	CHARRED OAK COFFIN
SPB 0956	4018	OC	?	13	<10m	Plain Earth	N	N	N	N	N	N	N	N	N	N	N	N	
SPB 0957	4019	MA	?F	13	<5m	Coffin (Stain/Wood)	N	N	N	N	N	N	N	N	N	N	N	N	STAIN
SPB 0958	4001	AA	?	9	<5m	Plain Earth	N	N	N	N	N	N	N	N	N	N	N	N	
SPB 0959	4020	YC	?	13	<5m	Plain Earth	N	N	N	N	N	N	N	N	N	N	N	N	
SPB 0971	3124	OA	F	11	<10m	Plain Earth	N	N	N	N	N	N	N	N	N	N	N	N	
SPB 0976	4021	OA	M	13	<5m	? Coffin	N	N	N	N	N	N	N	N	N	N	N	N	RECTANGULAR GRAVE
SPB 0977	4022	AA	?F	13	<5m	Plain Earth	N	N	N	N	N	N	N	N	N	N	N	N	
SPB 0978	4023	AA	?	13	<5m	Coffin (Fitting Only)	N	N	N	N	N	N	N	N	N	N	N	N	NAIL
SPB 0986	1797	AA	?F	4	<5m	Coffin (Stain/Wood)	N	N	N	N	N	N	N	N	N	N	N	N	STAIN AND CHARRED BOARD
SPB 0987	1798	YC	?	4	<5m	Plain Earth	N	N	N	N	N	N	N	N	N	N	N	N	
SPB 0988	4030	AA	F	13	<10m	Wood Plank	N	N	N	N	N	N	N	N	N	N	N	N	CHARRED BOARD BENEATH BODY
SPB 0989	4027	OA	M	13	<10m	Plain Earth	N	N	N	N	N	N	N	N	N	N	N	N	
SPB 0990	4028	OA	F	13	<10m	Plain Earth	N	N	N	N	N	N	N	N	N	N	N	N	
SPB 0991	4029	AA	?	12	<5m	Coffin (Stain/Wood)	N	N	N	N	N	N	N	N	N	N	N	N	NAIL
SPB 0992	4034	ADO	?	13	<5m	Plain Earth	N	N	N	N	N	N	N	N	N	N	N	N	? BOUND BODY / WINDING SHEET
SPB 0993	4033	MA	M	13	<10m	Plain Earth	N	N	N	N	N	N	N	N	N	N	N	N	
SPB 0994	1772	YA	F	4	<5m	Coffin (Stain/Wood)	N	N	N	N	N	N	N	N	N	N	N	N	CHARRED LID SIDES AND BOTTOM
SPB 0995	4035	MA	F	13	<5m	Coffin (Stain/Wood)	N	N	N	N	N	N	N	N	N	N	N	N	2 NAILS ON PLAN, 2 PILLOW STONES
SPB 1011	4038	MA	?F	13	<5m	? Coffin	N	N	N	N	N	N	N	N	N	N	N	N	1 NAIL
SPB 1012	3504	ADO	?	4	<5m	? Coffin	N	N	N	N	N	N	N	N	N	N	N	N	PROBABLE COFFIN, NO CLEAR TRACE
SPB 1013	3505	AA	?	4	<5m	? Coffin	N	N	N	N	N	N	N	N	N	N	N	N	PROBABLE COFFIN, NO CLEAR TRACE
SPB 1015	4040	MA	?M	13	<5m	Coffin (Stain/Wood)	N	N	N	N	N	N	N	N	N	N	N	N	NAILS, COFFIN FILLED WITH CLAY
SPB 1016	4042	OC	?	13	<5m	Plain Earth	N	N	N	N	N	N	N	N	N	N	N	N	? BOUND BODY
SPB 1018	3501	YA	F	4	<5m	Coffin (Stain/Wood)	N	N	N	N	N	N	N	N	N	N	N	N	WOOD VERY ROTTEN

SPB 2470	5357	MA	F	5	<10m	Coffin (Stain/Wood)	N	N	N	N	N	N	N	N	N	N	N	N	PEGS
SPB 2471	5402	OA	M	5	<15m	Coffin (Stain/Wood)	N	N	N	N	N	N	N	N	N	N	N	N	PEGS. 1 WAND
SPB 2477	7360			2	<10m	? Coffin	N	N	N	N	N	N	N	N	N	N	N	N	SILT AROUND BODY
SPB 2478	5425	OA	M	5	<15m	Coffin (Stain/Wood)	N	N	N	N	N	N	N	N	N	N	N	N	PEGS
SPB 2482	7335	IIN	?	2	<5m	Plain Earth	N	N	N	N	N	N	N	N	N	N	N	N	SILT BUT NO SUGGESTION OF COFFIN
SPB 2484	7337	AA	M	2	<10m	Coffin (Stain/Wood)	N	N	N	N	N	N	N	N	N	N	N	N	SILT & DISPLACED BONES
SPB 2485	7338	MA-OA	M	2	<5m	Plain Earth	N	N	N	N	N	N	N	N	N	N	N	N	'A COFFIN LOOKS UNLIKELY', ?1 NAIL
SPB 2488	7334	MA	F	2	<5m	Coffin (Fitting Only)	N	N	N	N	N	N	N	N	N	N	N	N	SHAPE & SIZE SUGGESTS COFFIN, DISPLACED BONES, 13 NAILS
SPB 2489	7326	YA	?	2	<10m	? Coffin	N	N	N	N	N	N	N	N	N	N	N	N	SHAPE & SIZE SUGGESTS COFFIN. 2 PILLOW STONES
SPB 2495	7207	OA	M	2	<5m	Plain Earth	N	N	N	N	N	N	N	N	N	N	N	N	
SPB 2498	7208	MA	F	2	<5m	Coffin (Stain/Wood)	N	N	N	N	N	N	N	N	N	N	N	N	NAILS. ? CLAY BURIAL
SPB 2501	7348	AA	M	2	<15m	Plain Earth	N	N	N	N	N	N	N	N	N	N	N	N	
SPB 2502	7341	OA	?	2	<10m	Coffin (Stain/Wood)	N	N	N	N	N	N	N	N	N	N	N	N	CLAY AND DISPLACED
SPB 2504	7344	AA	?	2	<15m	Wood Plank	N	N	N	N	N	N	N	N	N	N	N	N	CLAY ON BONES AND ROW OF ROVES. TIMBER PRESENT
SPB 2513	7355	MA	F	2	<15m	Plain Earth	N	N	N	N	N	N	N	N	N	N	N	N	SILT PATCHES BUT NO COFFIN EVIDENCE
SPB 2514	7331	OA	M	2	<10m	Coffin (Stain/Wood)	N	N	N	N	N	N	N	N	N	N	N	N	SILT MARK
SPB 2516	7356	SA	?	2	<5m	Wood Plank	N	N	N	N	N	N	N	N	N	N	N	N	CHARRED BOARD
SPB 2517	7357	MA	M	2	<5m	Unknown	N	N	N	N	N	N	N	N	N	N	N	N	BONES DISPLACED - COFFIN OR LATER DISTURBANCE?
SPB 2519	7358	MA	M	2	<10m	Coffin (Stain/Wood)	N	N	N	N	N	N	N	N	N	N	N	N	SILT MARK
SPB 2520	7353	MA-OA	M	2	<15m	? Coffin	N	N	N	N	N	N	N	N	N	N	N	N	DISPLACED BONES. 1 ROVE PROBABLY RESIDUAL
SPB 2521	7359	OA	F	2	<10m	Plain Earth	N	N	N	N	N	N	N	N	N	N	N	N	1 NAIL
SPB 2522	7361	AA	?	2	<5m	Plain Earth	N	N	N	N	N	N	N	N	N	N	N	N	
SPB 2525	7365	YC	?	2	<5m	? Coffin	N	N	N	N	N	N	N	N	N	N	N	N	SHAPE AND BONE STAINING SUGGESTS COFFIN

SML 321	LUB 47	AA	?M	IX	1	Plain Earth	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N					
SML 323	LUB 51	AA	F	IX	4	Plain Earth	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N				
SML 323?	LUB 47	OC	?	IX	4	Plain Earth	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N					
SML 324	LUB 51	MA	M	IX	4	Plain Earth	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N					
SML 325	LUB 43	MA	F	IX	4	Plain Earth	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N					
SML 328	LUB 43	MA	?	IX	4	Plain Earth	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N					
SML 329	LUB 51	MA	M	IX	4	Plain Earth	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N					
SML 330	LUB 43	AA	F	IX	4	Plain Earth	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N					
SML 331	LUB 51	YC	?	IX	4	Plain Earth	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N					
SML 335	LUB 46	MA	M	IX	4	Plain Earth	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N					
SML 344	LUB 48	YC	?	IX	4	Plain Earth	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N					
SML 350A	LUB 47	YC	?	VIII	1	Plain Earth	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N					
SML 350B	LUB 47	MA	M	VIII	1	Plain Earth	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N					
SML 354	LUB 47	YC	?	IX	1	Plain Earth	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N					
SML 355	LUB 47	YC	?	VIII-IX	1	Plain Earth	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N					
SML 357	LUB 47	MA	F	IX	1	Plain Earth	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N					
SML 358	LUB 61	MA	F	IX	2	Stone-lined	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N		3 FE NAILS + ROMAN RESIDUAL FINDS		CIST MORTARED TO LOOK LIKE STONE COFFIN. HAD COVER	
SML 362A	LUB 51	OC	?	IX	4	Plain Earth	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N					STAKE HOLE	
SML 362B	LUB 51	MA	?	IX	4	Plain Earth	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N					STAKE HOLE	
SML 363	LUB 51	IN	?	IX	4	Plain Earth	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N						
SML 364	LUB 48	AA	M	IX	4	Plain Earth	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N					
SML 365	LUB 47	AA	F	IX	1	Plain Earth	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N					
SML 366A	LUB 47	IN	?	IX	1	Plain Earth	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N					
SML 366B	LUB 47	OC	?	IX	1	Plain Earth	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N					
SML 370	LUB 42	AA	F	IX	4	? Coffin	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N		FE NAIL				
SML 371A	LUB 48	AA	F	IX	4	Plain Earth	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N					
SML 371B	LUB 48	MA	F	IX	4	Plain Earth	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N					

Appendix VI: Statistical Tables for Chapter 6

This appendix gives the full cross-tabulations and the results from the statistical tests reported on in Chapter 6. All of the p values for the chi-squared tests were estimated by Monte Carlo simulation in SPSS version 11, due to the low expected cell counts.

The full results of the cross-tabulations and chi-squared tests between sex and grave type and the Kruskal-Wallis and Mann-Whitney tests between age and grave type are presented in cemetery order (York Minster, Swinegate, St Andrew's Fishergate, St Peter's Barton-on-Humber, Barrow-on-Humber, St Mark's Lincoln), followed by the analysis of all of the cemeteries combined. These are followed by the spatial analyses. Grave type and sex were compared with cemetery area using chi-squared tests, and age was compared with cemetery area using Kruskal-Wallis tests.

The analysis of sex variation and grave type was undertaken twice when possible males and females were recorded in the cemetery populations. The first analysis excluded the possible males and females (sex confident) and the second analysis included possible males and females (sex less confident). This applies to York Minster, Swinegate and Barrow-on-Humber. Any analysis including grave types was also undertaken twice, once treating ?coffins as coffins, and once treating ?coffins as plain earth graves.

Ranks - York Minster			
	Grave type less confident	N	Mean Rank
Age	Plain earth	28	23.68
	Coffin	14	29.04
	Plank	1	6.50
	Lined	3	13.83
	Sarcophagus	2	29.25
	Total	48	

Table VI.1: Mean ranks for age and grave type (?coffins treated as coffins) at York Minster

Test Statistics (a, b) - York Minster	
	Age
Chi-Square	5.536
df	4
Asymp. Sig.	.237
a Kruskal-Wallis Test	
b Grouping Variable: Grave type less confident	

Table VI.2: Kruskal-Wallis test between age and grave type (?coffins treated as coffins) at York Minster

Ranks - York Minster			
	Grave type confident	N	Mean Rank
Age	Plain earth	31	22.98
	Coffin	11	32.45
	Plank	1	6.50
	Lined	3	13.83
	Sarcophagus	2	29.25
	Total	48	

Table VI.3: Mean ranks for age and grave type (?coffins treated as plain earth graves) at York Minster

Test Statistics (a, b) - York Minster	
	Age
Chi-Square	8.041
df	4
Asymp. Sig.	.090
a Kruskal-Wallis Test	
b Grouping Variable: Grave type confident	

Table VI.4: Kruskal-Wallis test between age and grave type (?coffins treated as plain earth graves) at York Minster

Ranks - Swinegate			
	Grave type less confident	N	Mean Rank
Age	Plain earth	42	39.01
	Coffin	30	44.97
	Plank	7	24.64
	Total	79	

Table VI.5: Mean ranks for age and grave type (?coffins treated as coffins) at Swinegate

Test Statistics (a, b) - Swinegate	
	Age
Chi-Square	4.905
df	2
Asymp. Sig.	.086
a Kruskal-Wallis Test	
b Grouping Variable: Grave type less confident	

Table VI.6: Kruskal-Wallis test between age and grave type (?coffins treated as coffins) at Swinegate

Ranks - Swinegate			
	Grave type confident	N	Mean Rank
Age	Plain earth	42	39.01
	Coffin	30	44.97
	Plank	7	24.64
	Total	79	

Table VI.7: Mean ranks for age and grave type (?coffins treated as plain earth graves) at Swinegate

Test Statistics (a, b) - Swinegate	
	Age
Chi-Square	4.905
df	2
Asymp. Sig.	.086
a Kruskal-Wallis Test	
b Grouping Variable: Grave type confident	

Table VI.8: Kruskal-Wallis test between age and grave type (?coffins treated as plain earth graves) at Swinegate

Ranks - St Andrew's Fishergate			
	Grave type less confident	N	Mean Rank
Age	Plain earth	108	58.23
	Coffin	10	73.20
	Total	118	

Table VI.9: Mean ranks for age and grave type (?coffins treated as coffins) at St Andrew's Fishergate

Test Statistics (a, b) - St Andrew's Fishergate	
	Age
Chi-Square	1.900
df	1
Asymp. Sig.	.168
a Kruskal-Wallis Test	
b Grouping Variable: Grave type less confident	

Table VI.10: Kruskal-Wallis test between age and grave type (?coffins treated as coffins) at St Andrew's Fishergate

Ranks - St Andrew's Fishergate			
	Grave type confident	N	Mean Rank
Age	Plain earth	117	59.37
	Coffin	1	74.50
	Total	118	

Table VI.11: Mean ranks for age and grave type (?coffins treated as plain earth graves) at St Andrew's Fishergate

Test Statistics (a, b) - St Andrew's Fishergate	
	Age
Chi-Square	.210
df	1
Asymp. Sig.	.647
a Kruskal-Wallis Test	
b Grouping Variable: Grave type confident	

Table VI.12: Kruskal-Wallis test between age and grave type (?coffins treated as plain earth graves) at St Andrew's Fishergate

Ranks - St Peter's Barton-on-Humber			
	Grave type less confident	N	Mean Rank
Age	Plain earth	181	185.21
	Coffin	253	253.64
	Plank	14	231.11
	Lined	1	95.50
	Total	449	

Table VI.13: Mean ranks for age and grave type (?coffins treated as coffins) at St Peter's Barton-on-Humber

Test Statistics (a, b) - St Peter's Barton-on-Humber	
	Age
Chi-Square	32.373
df	3
Asymp. Sig.	.000
a Kruskal-Wallis Test	
b Grouping Variable: Grave type less confident	

Table VI.14: Kruskal-Wallis test between age and grave type (?coffins treated as coffins) at St Peter's Barton-on-Humber

Ranks - St Peter's Barton-on-Humber			
	Grave type confident	N	Mean Rank
Age	Plain earth	236	204.03
	Coffin	198	250.21
	Plank	14	231.11
	Lined	1	95.50
	Total	449	

Table VI.15: Mean ranks for age and grave type (?coffins treated as plain earth graves) at St Peter's Barton-on-Humber

Test Statistics (a, b) - St Peter's Barton-on-Humber	
	Age
Chi-Square	15.630
df	3
Asymp. Sig.	.001
a Kruskal-Wallis Test	
b Grouping Variable: Grave type confident	

Table VI.16: Kruskal-Wallis test between age and grave type (?coffins treated as plain earth graves) at St Peter's Barton-on-Humber

Ranks - Barrow-on-Humber			
	Grave type less confident	N	Mean Rank
Age	Plain earth	75	41.01
	Coffin	2	59.00
	Lined	4	31.75
	Total	81	

Table VI.17: Mean ranks for age and grave type (?coffins treated as coffins) at Barrow-on-Humber

Test Statistics (a, b) - Barrow-on-Humber	
	Age
Chi-Square	1.907
df	2
Asymp. Sig.	.385
a Kruskal-Wallis Test	
b Grouping Variable: Grave type less confident	

Table VI.18: Kruskal-Wallis test between age and grave type (?coffins treated as coffins) at Barrow-on-Humber

Ranks - Barrow-on-Humber			
	Grave type confident	N	Mean Rank
Age	Plain earth	76	41.11
	Coffin	1	69.50
	Lined	4	31.75
	Total	81	

Table VI.19: Mean ranks for age and grave type (?coffins treated as plain earth graves) at Barrow-on-Humber

Test Statistics (a, b) - Barrow-on-Humber	
	Age
Chi-Square	2.225
df	2
Asymp. Sig.	.329
a Kruskal-Wallis Test	
b Grouping Variable: Grave type confident	

Table VI.20: Kruskal-Wallis test between age and grave type (?coffins treated as plain earth graves) at Barrow-on-Humber

Ranks - St Mark's Lincoln			
	Grave type less confident	N	Mean Rank
Age	Plain earth	72	44.64
	Coffin	18	53.67
	Lined	2	49.00
	Total	92	

Table VI.21: Mean ranks for age and grave type (?coffins treated as coffins) at St Mark's Lincoln

Test Statistics (a, b) - St Mark's Lincoln	
	Age
Chi-Square	1.941
df	2
Asymp. Sig.	.379
a Kruskal-Wallis Test	
b Grouping Variable: Grave type less confident	

Table VI.22: Kruskal-Wallis test between age and grave type (?coffins treated as coffins) at St Mark's Lincoln

Ranks - St Mark's Lincoln			
	Grave type confident	N	Mean Rank
Age	Plain earth	90	46.44
	Lined	2	49.00
	Total	92	

Table VI.23: Mean ranks for age and grave type (?coffins treated as plain earth graves) at St Mark's Lincoln

Test Statistics (a, b) - St Mark's Lincoln	
	Age
Chi-Square	.021
df	1
Asymp. Sig.	.885
a Kruskal-Wallis Test	
b Grouping Variable: Grave type confident	

Table VI.24: Kruskal-Wallis test between age and grave type (?coffins treated as plain earth graves) at St Mark's Lincoln

Ranks - All cemeteries			
	Grave type less confident	N	Mean Rank
Age	Plain earth	506	394.85
	Coffin	327	500.72
	Plank	22	380.91
	Lined	10	326.00
	Sarcophagus	2	553.50
	Total	867	

Table VI.25: Mean ranks for age and grave type (?coffins treated as coffins) for all cemeteries

Test Statistics (a, b) - All cemeteries	
	Age
Chi-Square	41.421
df	4
Asymp. Sig.	.000
a Kruskal-Wallis Test	
b Grouping Variable: Grave type less confident	

Table VI.26: Kruskal-Wallis test between age and grave type (?coffins treated as coffins) for all cemeteries

Ranks - All cemeteries			
	Grave type confident	N	Mean Rank
Age	Plain earth	592	409.56
	Coffin	241	502.38
	Plank	22	380.91
	Lined	10	326.00
	Sarcophagus	2	553.50
	Total	867	

Table VI.27: Mean ranks for age and grave type (?coffins treated as plain earth graves) for all cemeteries

Test Statistics (a, b) - All cemeteries	
	Age
Chi-Square	28.672
df	4
Asymp. Sig.	.000
a Kruskal-Wallis Test	
b Grouping Variable: Grave type confident	

Table VI.28: Kruskal-Wallis test between age and grave type (?coffins treated as plain earth graves) for all cemeteries

Ranks - All cemeteries except St Peter's			
	Grave type less confident	N	Mean Rank
Age	Plain earth	325	205.34
	Coffin	74	240.72
	Plank	8	117.00
	Lined	9	170.50
	Sarcophagus	2	276.50
	Total	418	

Table VI.29: Mean ranks for age and grave type (?coffins treated as coffins) for all cemeteries except St Peter's Barton-on-Humber

Test Statistics (a, b) - All cemeteries except St Peter's	
	Age
Chi-Square	12.384
df	4
Asymp. Sig.	.015
a Kruskal-Wallis Test	
b Grouping Variable: Grave type less confident	

Table VI.30: Kruskal-Wallis test between age and grave type (?coffins treated as coffins) for all cemeteries except St Peter's Barton-on-Humber

Ranks - All cemeteries except St Peter's			
	Grave type confident	N	Mean Rank
Age	Plain earth	356	206.53
	Coffin	43	256.37
	Plank	8	117.00
	Lined	9	170.50
	Sarcophagus	2	276.50
	Total	418	

Table VI.31: Mean ranks for age and grave type (?coffins treated as plain earth graves) for all cemeteries except St Peter's Barton-on-Humber

Test Statistics (a, b) - All cemeteries except St Peter's	
	Age
Chi-Square	13.838
df	4
Asymp. Sig.	.008
a Kruskal-Wallis Test	
b Grouping Variable: Grave type confident	

Table VI.32: Kruskal-Wallis test between age and grave type (?coffins treated as plain earth graves) for all cemeteries except St Peter's Barton-on-Humber

Ranks - York Minster				
	Elaborate?	N	Mean Rank	Sum of Ranks
Age	Plain earth	28	23.68	663.00
	Elaborate	20	25.65	513.00
	Total	48		

Table VI.33: Mean ranks for age and elaborate/plain earth graves at York Minster

Test Statistics (a) - York Minster	
	Age
Mann-Whitney U	257.000
Wilcoxon W	663.000
Z	-.497
Asymp. Sig. (2-tailed)	.619
a Grouping Variable: Elaborate?	

Table VI.34: Mann-Whitney test between age and elaborate/plain earth graves at York Minster

Ranks - Swinegate				
	Elaborate?	N	Mean Rank	Sum of Ranks
Age	Plain earth	42	39.01	1638.50
	Elaborate	37	41.12	1521.50
	Total	79		

Table VI.35: Mean ranks for age and elaborate/plain earth graves at Swinegate

Test Statistics (a) - Swinegate	
	Age
Mann-Whitney U	735.500
Wilcoxon W	1638.500
Z	-.420
Asymp. Sig. (2-tailed)	.674
a Grouping Variable: Elaborate?	

Table VI.36: Mann-Whitney test between age and elaborate/plain earth graves at Swinegate

Ranks - St Andrew's Fishergate				
	Elaborate?	N	Mean Rank	Sum of Ranks
Age	Plain earth	108	58.23	6289.00
	Elaborate	10	73.20	732.00
	Total	118		

Table VI.37: Mean ranks for age and elaborate/plain earth graves at St Andrew's Fishergate

Test Statistics (a) - St Andrew's Fishergate	
	Age
Mann-Whitney U	403.000
Wilcoxon W	6289.000
Z	-1.378
Asymp. Sig. (2-tailed)	.168
a Grouping Variable: Elaborate?	

Table VI.38: Mann-Whitney test between age and elaborate/plain earth graves at St Andrew's Fishergate

Ranks - St Peter's Barton-on-Humber				
	Elaborate?	N	Mean Rank	Sum of Ranks
Age	Plain earth	182	186.31	33909.00
	Elaborate	267	251.37	67116.00
	Total	449		

Table VI.39: Mean ranks for age and elaborate/plain earth graves at St Peter's Barton-on-Humber

Test Statistics (a) - St Peter's Barton-on-Humber	
	Age
Mann-Whitney U	17256.000
Wilcoxon W	33909.000
Z	-5.385
Asymp. Sig. (2-tailed)	.000
a Grouping Variable: Elaborate?	

Table VI.40: Mann-Whitney test between age and elaborate/plain earth graves at St Peter's Barton-on-Humber

Ranks - Barrow-on-Humber				
	Elaborate?	N	Mean Rank	Sum of Ranks
Age	Plain earth	75	41.01	3076.00
	Elaborate	6	40.83	245.00
	Total	81		

Table VI.41: Mean ranks for age and elaborate/plain earth graves at Barrow-on-Humber

Test Statistics (a) - Barrow-on-Humber	
	Age
Mann-Whitney U	224.000
Wilcoxon W	245.000
Z	-.019
Asymp. Sig. (2-tailed)	.985
a Grouping Variable: Elaborate?	

Table VI.42: Mann-Whitney test between age and elaborate/plain earth graves at Barrow-on-Humber

Ranks - St Mark's Lincoln				
	Elaborate?	N	Mean Rank	Sum of Ranks
Age	Plain earth	72	44.64	3214.00
	Elaborate	20	53.20	1064.00
	Total	92		

Table VI.43: Mean ranks for age and elaborate/plain earth graves at St Mark's Lincoln

Test Statistics (a) - St Mark's Lincoln	
	Age
Mann-Whitney U	586.000
Wilcoxon W	3214.000
Z	-1.370
Asymp. Sig. (2-tailed)	.171
a Grouping Variable: Elaborate?	

Table VI.44: Mann-Whitney test between age and elaborate/plain earth graves at St Mark's Lincoln

Sex confident * Grave type less confident Cross-tabulation - York Minster								
			Grave type less confident					Total
			Plain earth	Coffin	Plank	Lined	Sarcophagus	
Sex confident	Female	Count	7	4	0	1	1	13
		Expected Count	7.5	4.0	.3	.6	.6	13.0
	Male	Count	19	10	1	1	1	32
		Expected Count	18.5	10.0	.7	1.4	1.4	32.0
Total	Count	26	14	1	2	2	45	
	Expected Count	26.0	14.0	1.0	2.0	2.0	45.0	

Table VI.45: Cross-tabulation between sex and grave type (?coffins treated as coffins) at York Minster

Chi-Square Tests - York Minster						
	Value	df	Asymp. Sig. (2-sided)	Monte Carlo Sig. (2-sided)		
				Sig.	99% Confidence Interval	
					Lower Bound	Upper Bound
Pearson Chi-Square	1.324(a)	4	.857	1.000(b)	1.000	1.000
N of Valid Cases	45					

a 7 cells (70.0%) have expected count less than 5. The minimum expected count is .29.

b Based on 10000 sampled tables with starting seed 205597102.

Table VI.46: Chi-square test between sex and grave type (?coffins treated as coffins) at York Minster

Less confident sex * Grave type less confident Cross-tabulation - York Minster								
			Grave type less confident					Total
			Plain earth	Coffin	Plank	Lined	Sarcophagus	
Less confident sex	Females	Count	8	4	0	1	1	14
		Expected Count	8.4	3.9	.3	.8	.6	14.0
	Males	Count	22	10	1	2	1	36
		Expected Count	21.6	10.1	.7	2.2	1.4	36.0
Total	Count	30	14	1	3	2	50	
	Expected Count	30.0	14.0	1.0	3.0	2.0	50.0	

Table VI.47: Cross-tabulation between sex and grave type (?coffins treated as coffins) at York Minster including possible males and females

Chi-Square Tests - York Minster						
	Value	df	Asymp. Sig. (2-sided)	Monte Carlo Sig. (2-sided)		
				Sig.	99% Confidence Interval	
					Lower Bound	Upper Bound
Pearson Chi-Square	.940(a)	4	.919	1.000(b)	1.000	1.000
N of Valid Cases	50					

a 7 cells (70.0%) have expected count less than 5. The minimum expected count is .28.

b Based on 10000 sampled tables with starting seed 1615198575.

Table VI.48: Chi-square test between sex and grave type (?coffins treated as coffins) at York Minster including possible males and females

Sex confident * Grave type less confident Cross-tabulation - Swinegate						
			Grave type less confident			Total
			Plain earth	Coffin	Plank	
Sex confident	Female	Count	7	10	2	19
		Expected Count	8.3	9.7	.9	19.0
	Male	Count	11	11	0	22
		Expected Count	9.7	11.3	1.1	22.0
Total		Count	18	21	2	41
		Expected Count	18.0	21.0	2.0	41.0

Table VI.49: Cross-tabulation between sex and grave type at Swinegate

Chi-Square Tests - Swinegate						
	Value	df	Asymp. Sig. (2-sided)	Monte Carlo Sig. (2-sided)		
				Sig.	99% Confidence Interval	
					Lower Bound	Upper Bound
Pearson Chi-Square	2.732(a)	2	.255	.311(b)	.299	.323
N of Valid Cases	41					

a 2 cells (33.3%) have expected count less than 5. The minimum expected count is .93.

b Based on 10000 sampled tables with starting seed 1131884899.

Table VI.50: Chi-square test between sex and grave type at Swinegate

Less confident sex * Grave type less confident Cross-tabulation - Swinegate						
			Grave type less confident			Total
			Plain earth	Coffin	Plank	
Less confident sex	Females	Count	14	13	2	29
		Expected Count	14.8	13.2	1.0	29.0
	Males	Count	15	13	0	28
		Expected Count	14.2	12.8	1.0	28.0
Total		Count	29	26	2	57
		Expected Count	29.0	26.0	2.0	57.0

Table VI.51: Cross-tabulation between sex and grave type at Swinegate including possible males and females

Chi-Square Tests - Swinegate						
	Value	df	Asymp. Sig. (2-sided)	Monte Carlo Sig. (2-sided)		
				Sig.	99% Confidence Interval	
					Lower Bound	Upper Bound
Pearson Chi-Square	2.018(a)	2	.365	.575(b)	.562	.588
N of Valid Cases	57					
a 2 cells (33.3%) have expected count less than 5. The minimum expected count is .98.						
b Based on 10000 sampled tables with starting seed 1122541128.						

Table VI.52: Chi-square test between sex and grave type at Swinegate including possible males and females

Sex confident * Grave type less confident Cross-tabulation - St Andrew's Fishergate					
			Grave type less confident		Total
			Plain earth	Coffin	
Sex confident	Female	Count	30	3	33
		Expected Count	30.1	2.9	33.0
	Male	Count	43	4	47
		Expected Count	42.9	4.1	47.0
Total		Count	73	7	80
		Expected Count	73.0	7.0	80.0

Table VI.53: Cross-tabulation between sex and grave type (?coffins treated as coffins) at St Andrew's Fishergate

Chi-Square Tests (b) - St Andrew's Fishergate				
	Value	df	Asymp. Sig. (2-sided)	Exact Sig. (2-sided)
Pearson Chi-Square	.008(a)	1	.928	1.000
N of Valid Cases	80			
a 2 cells (50.0%) have expected count less than 5. The minimum expected count is 2.89.				
b For 2x2 cross-tabulation, exact results are provided instead of Monte Carlo results.				

Table VI.54: Chi-square test between sex and grave type (?coffins treated as coffins) at St Andrew's Fishergate

Sex confident * Grave type less confident Cross-tabulation - St Peter's Barton-on-Humber						
			Grave type less confident			Total
			Plain earth	Coffin	Plank	
Sex confident	Female	Count	50	101	5	156
		Expected Count	51.0	100.2	4.8	156.0
	Male	Count	67	129	6	202
		Expected Count	66.0	129.8	6.2	202.0
Total		Count	117	230	11	358
		Expected Count	117.0	230.0	11.0	358.0

Table VI.55: Cross-tabulation between sex and grave type (?coffins treated as coffins) at St Peter's Barton-on-Humber

Chi-Square Tests - St Peter's Barton-on-Humber						
	Value	df	Asymp. Sig. (2-sided)	Monte Carlo Sig. (2-sided)		
				Sig.	99% Confidence Interval	
					Lower Bound	Upper Bound
Pearson Chi-Square	.060(a)	2	.970	.977(b)	.973	.981
N of Valid Cases	358					

a 1 cells (16.7%) have expected count less than 5. The minimum expected count is 4.79.

b Based on 10000 sampled tables with starting seed 1487459085.

Table VI.56: Chi-square test between sex and grave type (?coffins treated as coffins) at St Peter's Barton-on-Humber

Sex confident * Grave type less confident Cross-tabulation - Barrow-on-Humber						
			Grave type less confident			Total
			Plain earth	Coffin	Lined	
Sex confident	Female	Count	15	1	0	16
		Expected Count	15.0	.6	.3	16.0
	Male	Count	32	1	1	34
		Expected Count	32.0	1.4	.7	34.0
Total		Count	47	2	1	50
		Expected Count	47.0	2.0	1.0	50.0

Table VI.57: Cross-tabulation between sex and grave type (?coffins treated as coffins) at Barrow-on-Humber

Chi-Square Tests - Barrow-on-Humber						
	Value	df	Asymp. Sig. (2-sided)	Monte Carlo Sig. (2-sided)		
				Sig.	99% Confidence Interval	
					Lower Bound	Upper Bound
Pearson Chi-Square	.769(a)	2	.681	1.000(b)	1.000	1.000
N of Valid Cases	50					
a 4 cells (66.7%) have expected count less than 5. The minimum expected count is .32.						
b Based on 10000 sampled tables with starting seed 2000000.						

Table VI.58: Chi-square test between sex and grave type (?coffins treated as coffins) at Barrow-on-Humber

Less confident sex * Grave type less confident Cross-tabulation - Barrow-on-Humber						
			Grave type less confident			Total
			Plain earth	Coffin	Lined	
Less confident sex	Females	Count	20	1	0	21
		Expected Count	19.6	.7	.7	21.0
	Males	Count	38	1	2	41
		Expected Count	38.4	1.3	1.3	41.0
Total		Count	58	2	2	62
		Expected Count	58.0	2.0	2.0	62.0

Table VI.59: Cross-tabulation between sex and grave type (?coffins treated as coffins) at Barrow-on-Humber including possible males and females

Chi-Square Tests - Barrow-on-Humber						
	Value	df	Asymp. Sig. (2-sided)	Monte Carlo Sig. (2-sided)		
				Sig.	99% Confidence Interval	
					Lower Bound	Upper Bound
Pearson Chi-Square	1.266(a)	2	.531	.793(b)	.782	.803
N of Valid Cases	62					
a 4 cells (66.7%) have expected count less than 5. The minimum expected count is .68.						
b Based on 10000 sampled tables with starting seed 624387341.						

Table VI.60: Chi-square test between sex and grave type (?coffins treated as coffins) at Barrow-on-Humber including possible males and females

Sex confident * Grave type less confident Cross-tabulation - St Mark's Lincoln						
			Grave type less confident			Total
			Plain earth	Coffin	Lined	
Sex confident	Female	Count	29	2	1	32
		Expected Count	26.2	5.3	.4	32.0
	Male	Count	30	10	0	40
		Expected Count	32.8	6.7	.6	40.0
Total		Count	59	12	1	72
		Expected Count	59.0	12.0	1.0	72.0

Table VI.61: Cross-tabulation between sex and grave type (?coffins treated as coffins) at St Mark's Lincoln

Chi-Square Tests - St Mark's Lincoln						
	Value	df	Asymp. Sig. (2-sided)	Monte Carlo Sig. (2-sided)		
				Sig.	99% Confidence Interval	
					Lower Bound	Upper Bound
Pearson Chi-Square	5.530(a)	2	.063	.055(b)	.049	.060
N of Valid Cases	72					

a 2 cells (33.3%) have expected count less than 5. The minimum expected count is .44.

b Based on 10000 sampled tables with starting seed 726961337.

Table VI.62: Chi-square test between sex and grave type (?coffins treated as coffins) at St Mark's Lincoln

Sex confident * Grave type less confident Cross-tabulation - all cemeteries								
			Grave type less confident					Total
			Plain earth	Coffin	Plank	Lined	Sarcophagus	
Sex confident	Female	Count	138	121	7	2	1	269
		Expected Count	141.6	119.1	5.8	1.7	.8	269.0
	Male	Count	202	165	7	2	1	377
		Expected Count	198.4	166.9	8.2	2.3	1.2	377.0
Total		Count	340	286	14	4	2	646
		Expected Count	340.0	286.0	14.0	4.0	2.0	646.0

Table VI.63: Cross-tabulation between sex and grave type (?coffins treated as coffins) for all cemeteries

Chi-Square Tests - all cemeteries						
	Value	df	Asymp. Sig. (2-sided)	Monte Carlo Sig. (2-sided)		
				Sig.	99% Confidence Interval	
					Lower Bound	Upper Bound
Pearson Chi-Square	.782(a)	4	.941	.938(b)	.932	.944
N of Valid Cases	646					
a 4 cells (40.0%) have expected count less than 5. The minimum expected count is .83.						
b Based on 10000 sampled tables with starting seed 846668601.						

Table VI.64: Chi-square test between sex and grave type (?coffins treated as coffins) for all cemeteries

Less confident sex * Grave type less confident Cross-tabulation - all cemeteries								
			Grave type less confident					Total
			Plain earth	Coffin	Plank	Lined	Sarcophagus	
Less confident sex	Females	Count	151	124	7	2	1	285
		Expected Count	153.6	122.1	5.9	2.5	.8	285.0
	Males	Count	215	167	7	4	1	394
		Expected Count	212.4	168.9	8.1	3.5	1.2	394.0
Total		Count	366	291	14	6	2	679
		Expected Count	366.0	291.0	14.0	6.0	2.0	679.0

Table VI.65: Cross-tabulation between sex and grave type (?coffins treated as coffins) for all cemeteries including possible males and females

Chi-Square Tests - all cemeteries						
	Value	df	Asymp. Sig. (2-sided)	Monte Carlo Sig. (2-sided)		
				Sig.	99% Confidence Interval	
					Lower Bound	Upper Bound
Pearson Chi-Square	.733(a)	4	.947	.931(b)	.924	.938
N of Valid Cases	679					
a 4 cells (40.0%) have expected count less than 5. The minimum expected count is .84.						
b Based on 10000 sampled tables with starting seed 391318613.						

Table VI.66: Chi-square test between sex and grave type (?coffins treated as coffins) for all cemeteries including possible males and females

Sex confident * Grave type confident Cross-tabulation - York Minster								
			Grave type confident					Total
			Plain earth	Coffin	Plank	Lined	Sarcophagus	
Sex confident	Female	Count	8	3	0	1	1	13
		Expected Count	8.4	3.2	.3	.6	.6	13.0
	Male	Count	21	8	1	1	1	32
		Expected Count	20.6	7.8	.7	1.4	1.4	32.0
Total		Count	29	11	1	2	2	45
		Expected Count	29.0	11.0	1.0	2.0	2.0	45.0

Table VI.67: Cross-tabulation between sex and grave type (?coffins treated as plain earth graves) at York Minster

Chi-Square Tests - York Minster						
	Value	df	Asymp. Sig. (2-sided)	Monte Carlo Sig. (2-sided)		
				Sig.	99% Confidence Interval	
					Lower Bound	Upper Bound
Pearson Chi-Square	1.312(a)	4	.859	1.000(b)	1.000	1.000
N of Valid Cases	45					

a 7 cells (70.0%) have expected count less than 5. The minimum expected count is .29.

b Based on 10000 sampled tables with starting seed 79996689.

Table VI.68: Chi-square test between sex and grave type (?coffins treated as plain earth graves) at York Minster

Less confident sex * Grave type confident Cross-tabulation - York Minster								
			Grave type confident					Total
			Plain earth	Coffin	Plank	Lined	Sarcophagus	
Less confident sex	Females	Count	9	3	0	1	1	14
		Expected Count	9.2	3.1	.3	.8	.6	14.0
	Males	Count	24	8	1	2	1	36
		Expected Count	23.8	7.9	.7	2.2	1.4	36.0
Total		Count	33	11	1	3	2	50
		Expected Count	33.0	11.0	1.0	3.0	2.0	50.0

Table VI.69: Cross-tabulation between sex and grave type (?coffins treated as plain earth graves) at York Minster including possible males and females

Chi-Square Tests - York Minster						
	Value	df	Asymp. Sig. (2-sided)	Monte Carlo Sig. (2-sided)		
				Sig.	99% Confidence Interval	
					Lower Bound	Upper Bound
Pearson Chi-Square	.923(a)	4	.921	1.000(b)	1.000	1.000
N of Valid Cases	50					
a 7 cells (70.0%) have expected count less than 5. The minimum expected count is .28.						
b Based on 10000 sampled tables with starting seed 1634676757.						

Table VI.70: Chi-square test between sex and grave type (?coffins treated as plain earth graves) at York Minster including possible males and females

Sex confident * Grave type confident Cross-tabulation - St Andrew's Fishergate					
		Grave type confident		Total	
		Plain earth	Coffin		
Sex confident	Female	Count	33	0	33
		Expected Count	32.6	.4	33.0
	Male	Count	46	1	47
		Expected Count	46.4	.6	47.0
Total		Count	79	1	80
		Expected Count	79.0	1.0	80.0

Table VI.71: Cross-tabulation between sex and grave type (?coffins treated as plain earth graves) at St Andrew's Fishergate

Chi-Square Tests (a) - St Andrew's Fishergate				
	Value	df	Asymp. Sig. (2-sided)	Exact Sig. (2-sided)
Pearson Chi-Square	.711(b)	1	.399	1.000
N of Valid Cases	80			
a 2 cells (50.0%) have expected count less than 5. The minimum expected count is .41.				
b For 2x2 cross-tabulation, exact results are provided instead of Monte Carlo results.				

Table VI.72: Chi-square test between sex and grave type (?coffins treated as plain earth graves) at St Andrew's Fishergate

Sex confident * Grave type confident Cross-tabulation - St Peter's Barton-on-Humber						
			Grave type confident			Total
			Plain earth	Coffin	Plank	
Sex confident	Female	Count	75	76	5	156
		Expected Count	72.8	78.4	4.8	156.0
	Male	Count	92	104	6	202
		Expected Count	94.2	101.6	6.2	202.0
Total		Count	167	180	11	358
		Expected Count	167.0	180.0	11.0	358.0

Table VI.73: Cross-tabulation between sex and grave type (?coffins treated as plain earth graves) at St Peter's Barton-on-Humber

Chi-Square Tests - St Peter's Barton-on-Humber						
	Value	df	Asymp. Sig. (2-sided)	Monte Carlo Sig. (2-sided)		
				Sig.	99% Confidence Interval	
					Lower Bound	Upper Bound
Pearson Chi-Square	.271(a)	2	.873	.899(b)	.892	.907
N of Valid Cases	358					
a 1 cells (16.7%) have expected count less than 5. The minimum expected count is 4.79.						
b Based on 10000 sampled tables with starting seed 1507486128.						

Table VI.74: Chi-square test between sex and grave type (?coffins treated as plain earth graves) at St Peter's Barton-on-Humber

Sex confident * Grave type confident Cross-tabulation						
			Grave type confident			Total
			Plain earth	Coffin	Lined	
Sex confident	Female	Count	15	1	0	16
		Expected Count	15.4	.3	.3	16.0
	Male	Count	33	0	1	34
		Expected Count	32.6	.7	.7	34.0
Total		Count	48	1	1	50
		Expected Count	48.0	1.0	1.0	50.0

Table VI.75: Cross-tabulation between sex and grave type (?coffins treated as plain earth graves) at Barrow-on-Humber

Chi-Square Tests - Barrow-on-Humber						
	Value	df	Asymp. Sig. (2-sided)	Monte Carlo Sig. (2-sided)		
				Sig.	99% Confidence Interval	
					Lower Bound	Upper Bound
Pearson Chi-Square	2.608(a)	2	.271	.549(b)	.536	.562
N of Valid Cases	50					
a 4 cells (66.7%) have expected count less than 5. The minimum expected count is .32.						
b Based on 10000 sampled tables with starting seed 475497203.						

Table VI.76: Chi-square test between sex and grave type (?coffins treated as plain earth graves) at Barrow-on-Humber

Less confident sex * Grave type confident Cross-tabulation - Barrow-on-Humber						
			Grave type confident			Total
			Plain earth	Coffin	Lined	
Less confident sex	Females	Count	20	1	0	21
		Expected Count	20.0	.3	.7	21.0
	Males	Count	39	0	2	41
		Expected Count	39.0	.7	1.3	41.0
Total		Count	59	1	2	62
		Expected Count	59.0	1.0	2.0	62.0

Table VI.77: Cross-tabulation between sex and grave type (?coffins treated as plain earth graves) at Barrow-on-Humber including possible males and females

Chi-Square Tests - Barrow-on-Humber						
	Value	df	Asymp. Sig. (2-sided)	Monte Carlo Sig. (2-sided)		
				Sig.	99% Confidence Interval	
					Lower Bound	Upper Bound
Pearson Chi-Square	2.977(a)	2	.226	.269(b)	.258	.281
N of Valid Cases	62					
a 4 cells (66.7%) have expected count less than 5. The minimum expected count is .34.						
b Based on 10000 sampled tables with starting seed 79654295.						

Table VI.78: Chi-square test between sex and grave type (?coffins treated as plain earth graves) at Barrow-on-Humber including possible males and females

Sex confident * Grave type confident Cross-tabulation - St Mark's Lincoln					
			Grave type confident		Total
			Plain earth	Lined	
Sex confident	Female	Count	31	1	32
		Expected Count	31.6	.4	32.0
	Male	Count	40	0	40
		Expected Count	39.4	.6	40.0
Total		Count	71	1	72
		Expected Count	71.0	1.0	72.0

Table VI.79: Cross-tabulation between sex and grave type (?coffins treated as plain earth graves) at St Mark's Lincoln

Chi-Square Tests (a) - St Mark's Lincoln				
	Value	df	Asymp. Sig. (2-sided)	Exact Sig. (2-sided)
Pearson Chi-Square	1.268(b)	1	.260	.444
N of Valid Cases	72			

a 2 cells (50.0%) have expected count less than 5. The minimum expected count is .44.
b For 2x2 cross-tabulation, exact results are provided instead of Monte Carlo results.

Table VI.80: Chi-square test between sex and grave type (?coffins treated as plain earth graves) at St Mark's Lincoln

Sex confident * Grave type confident Cross-tabulation - all cemeteries								
			Grave type confident					Total
			Plain earth	Coffin	Plank	Lined	Sarcophagus	
Sex confident	Female	Count	169	90	7	2	1	269
		Expected Count	171.6	89.1	5.8	1.7	.8	269.0
	Male	Count	243	124	7	2	1	377
		Expected Count	240.4	124.9	8.2	2.3	1.2	377.0
Total		Count	412	214	14	4	2	646
		Expected Count	412.0	214.0	14.0	4.0	2.0	646.0

Table VI.81: Cross-tabulation between sex and grave type (?coffins treated as plain earth graves) for all cemeteries

Chi-Square Tests - all cemeteries						
	Value	df	Asymp. Sig. (2-sided)	Monte Carlo Sig. (2-sided)		
				Sig.	99% Confidence Interval	
					Lower Bound	Upper Bound
Pearson Chi-Square	.656(a)	4	.957	.951(b)	.946	.957
N of Valid Cases	646					
a 4 cells (40.0%) have expected count less than 5. The minimum expected count is .83.						
b Based on 10000 sampled tables with starting seed 1831435319.						

Table VI.82: Chi-square test between sex and grave type (?coffins treated as plain earth graves) for all cemeteries

Less confident sex * Grave type confident Cross-tabulation - all cemeteries								
			Grave type confident					Total
			Plain earth	Coffin	Plank	Lined	Sarcophagus	
Less confident sex	Females	Count	182	93	7	2	1	285
		Expected Count	183.8	91.9	5.9	2.5	.8	285.0
	Males	Count	256	126	7	4	1	394
		Expected Count	254.2	127.1	8.1	3.5	1.2	394.0
Total	Count	438	219	14	6	2	679	
	Expected Count	438.0	219.0	14.0	6.0	2.0	679.0	

Table VI.83: Cross-tabulation between sex and grave type (?coffins treated as plain earth graves) for all cemeteries including possible males and females

Chi-Square Tests - all cemeteries						
	Value	df	Asymp. Sig. (2-sided)	Monte Carlo Sig. (2-sided)		
				Sig.	99% Confidence Interval	
					Lower Bound	Upper Bound
Pearson Chi-Square	.661(a)	4	.956	.941(b)	.935	.947
N of Valid Cases	679					
a 4 cells (40.0%) have expected count less than 5. The minimum expected count is .84.						
b Based on 10000 sampled tables with starting seed 1810951851.						

Table VI.84: Chi-square test between sex and grave type (?coffins treated as plain earth graves) for all cemeteries including possible males and females

Sex confident * Elaborate? Cross-tabulation - York Minster					
			Elaborate?		Total
			Plain earth	Elaborate	
Sex confident	Female	Count	7	6	13
		Expected Count	7.5	5.5	13.0
	Male	Count	19	13	32
		Expected Count	18.5	13.5	32.0
Total		Count	26	19	45
		Expected Count	26.0	19.0	45.0

Table VI.85: Cross-tabulation between sex and elaborate/plain earth graves at York Minster

Chi-Square Tests (b) - York Minster				
	Value	df	Asymp. Sig. (2-sided)	Exact Sig. (2-sided)
Pearson Chi-Square	.116(a)	1	.734	.751
N of Valid Cases	45			

a 0 cells (.0%) have expected count less than 5. The minimum expected count is 5.49.

b For 2x2 cross-tabulation, exact results are provided instead of Monte Carlo results.

Table VI.86: Chi-square test between sex and elaborate/plain earth graves at York Minster

Less confident sex * Elaborate? Cross-tabulation - York Minster					
			Elaborate?		Total
			Plain earth	Elaborate	
Less confident sex	Females	Count	8	6	14
		Expected Count	8.4	5.6	14.0
	Males	Count	22	14	36
		Expected Count	21.6	14.4	36.0
Total		Count	30	20	50
		Expected Count	30.0	20.0	50.0

Table VI.87: Cross-tabulation between sex and elaborate/plain earth graves at York Minster including possible males and females

Chi-Square Tests (b)				
	Value	df	Asymp. Sig. (2-sided)	Exact Sig. (2-sided)
Pearson Chi-Square	.066(a)	1	.797	1.000
N of Valid Cases	50			

a 0 cells (.0%) have expected count less than 5. The minimum expected count is 5.60.

B For 2x2 cross-tabulation, exact results are provided instead of Monte Carlo results.

Table VI.88: Chi-square test between sex and elaborate/plain earth graves at York Minster including possible males and females

Sex confident * Elaborate? Cross-tabulation - Swinegate					
			Elaborate?		Total
			Plain earth	Elaborate	
Sex confident	Female	Count	7	12	19
		Expected Count	8.3	10.7	19.0
	Male	Count	11	11	22
		Expected Count	9.7	12.3	22.0
Total		Count	18	23	41
		Expected Count	18.0	23.0	41.0

Table VI.89: Cross-tabulation between sex and elaborate/plain earth graves at Swinegate

Chi-Square Tests (b)				
	Value	df	Asymp. Sig. (2-sided)	Exact Sig. (2-sided)
Pearson Chi-Square	.717(a)	1	.397	.531
N of Valid Cases	41			

a 0 cells (.0%) have expected count less than 5. The minimum expected count is 8.34.
 B For 2x2 cross-tabulation, exact results are provided instead of Monte Carlo results.

Table VI.90: Chi-square test between sex and elaborate/plain earth graves at Swinegate

Less confident sex * Elaborate? Cross-tabulation - Swinegate					
			Elaborate?		Total
			Plain earth	Elaborate	
Less confident sex	Females	Count	14	15	29
		Expected Count	14.8	14.2	29.0
	Males	Count	15	13	28
		Expected Count	14.2	13.8	28.0
Total		Count	29	28	57
		Expected Count	29.0	28.0	57.0

Table VI.91: Cross-tabulation between sex and elaborate/plain earth graves at Swinegate including possible males and females

Chi-Square Tests (b) - Swinegate				
	Value	df	Asymp. Sig. (2-sided)	Exact Sig. (2-sided)
Pearson Chi-Square	.160(a)	1	.689	.793
N of Valid Cases	57			
A 0 cells (.0%) have expected count less than 5. The minimum expected count is 13.75.				
b For 2x2 cross-tabulation, exact results are provided instead of Monte Carlo results.				

Table VI.92: Chi-square test between sex and elaborate/plain earth graves at Swinegate including possible males and females

Sex confident * Elaborate? Cross-tabulation - St Andrew's Fishergate					
			Elaborate?		Total
			Plain earth	Elaborate	
Sex confident	Female	Count	30	3	33
		Expected Count	30.1	2.9	33.0
	Male	Count	43	4	47
		Expected Count	42.9	4.1	47.0
Total	Count	73	7	80	
	Expected Count	73.0	7.0	80.0	

Table VI.93: Cross-tabulation between sex and elaborate/plain earth graves at St Andrew's Fishergate

Chi-Square Tests (b) - St Andrew's Fishergate				
	Value	df	Asymp. Sig. (2-sided)	Exact Sig. (2-sided)
Pearson Chi-Square	.008(a)	1	.928	1.000
N of Valid Cases	80			
a 2 cells (50.0%) have expected count less than 5. The minimum expected count is 2.89.				
B For 2x2 cross-tabulation, exact results are provided instead of Monte Carlo results.				

Table VI.94: Chi-square test between sex and elaborate/plain earth graves at St Andrew's Fishergate

Sex confident * Elaborate? Cross-tabulation - St Peter's Barton-on-Humber					
			Elaborate?		Total
			Plain earth	Elaborate	
Sex confident	Female	Count	50	106	156
		Expected Count	51.4	104.6	156.0
	Male	Count	68	134	202
		Expected Count	66.6	135.4	202.0
Total		Count	118	240	358
		Expected Count	118.0	240.0	358.0

Table VI.95: Cross-tabulation between sex and elaborate/plain earth graves at St Peter's Barton-on-Humber

Chi-Square Tests (b) - St Peter's Barton-on-Humber				
	Value	df	Asymp. Sig. (2-sided)	Exact Sig. (2-sided)
Pearson Chi-Square	.104(a)	1	.748	.821
N of Valid Cases	358			

a 0 cells (.0%) have expected count less than 5. The minimum expected count is 51.42.
 B For 2x2 cross-tabulation, exact results are provided instead of Monte Carlo results.

Table VI.96: Chi-square test between sex and elaborate/plain earth graves at St Peter's Barton-on-Humber

Sex confident * Elaborate? Cross-tabulation - Barrow-on-Humber					
			Elaborate?		Total
			Plain earth	Elaborate	
Sex confident	Female	Count	15	1	16
		Expected Count	15.0	1.0	16.0
	Male	Count	32	2	34
		Expected Count	32.0	2.0	34.0
Total		Count	47	3	50
		Expected Count	47.0	3.0	50.0

Table VI.97: Cross-tabulation between sex and elaborate/plain earth graves at Barrow-on-Humber

Chi-Square Tests (b) - Barrow-on-Humber				
	Value	df	Asymp. Sig. (2-sided)	Exact Sig. (2-sided)
Pearson Chi-Square	.003(a)	1	.959	1.000
N of Valid Cases	50			
a 2 cells (50.0%) have expected count less than 5. The minimum expected count is .96.				
B For 2x2 cross-tabulation, exact results are provided instead of Monte Carlo results.				

Table VI.98: Chi-square test between sex and elaborate/plain earth graves at Barrow-on-Humber

Less confident sex * Elaborate? Cross-tabulation - Barrow-on-Humber					
			Elaborate?		Total
			Plain earth	Elaborate	
Less confident sex	Females	Count	20	1	21
		Expected Count	19.6	1.4	21.0
	Males	Count	38	3	41
		Expected Count	38.4	2.6	41.0
Total		Count	58	4	62
		Expected Count	58.0	4.0	62.0

Table VI.99: Cross-tabulation between sex and elaborate/plain earth graves at Barrow-on-Humber including possible males and females

Chi-Square Tests (b) - Barrow-on-Humber				
	Value	df	Asymp. Sig. (2-sided)	Exact Sig. (2-sided)
Pearson Chi-Square	.150(a)	1	.698	1.000
N of Valid Cases	62			
a 2 cells (50.0%) have expected count less than 5. The minimum expected count is 1.35.				
B For 2x2 cross-tabulation, exact results are provided instead of Monte Carlo results.				

Table VI.100: Chi-square test between sex and elaborate/plain earth graves at Barrow-on-Humber including possible males and females

Sex confident * Elaborate? Cross-tabulation - St Mark's Lincoln					
			Elaborate?		Total
			Plain earth	Elaborate	
Sex confident	Female	Count	29	3	32
		Expected Count	26.2	5.8	32.0
	Male	Count	30	10	40
		Expected Count	32.8	7.2	40.0
Total		Count	59	13	72
		Expected Count	59.0	13.0	72.0

Table VI.101: Cross-tabulation between sex and elaborate/plain earth graves at St Mark's Lincoln

Chi-Square Tests (b) - St Mark's Lincoln				
	Value	df	Asymp. Sig. (2-sided)	Exact Sig. (2-sided)
Pearson Chi-Square	2.934(a)	1	.087	.125
N of Valid Cases	72			

a 0 cells (.0%) have expected count less than 5. The minimum expected count is 5.78.
 B For 2x2 cross-tabulation, exact results are provided instead of Monte Carlo results.

Table VI.102: Chi-square test between sex and elaborate/plain earth graves at St Mark's Lincoln

Sex confident * Elaborate? Cross-tabulation - all cemeteries					
			Elaborate?		Total
			Plain earth	Elaborate	
Sex confident	Female	Count	138	131	269
		Expected Count	142.0	127.0	269.0
	Male	Count	203	174	377
		Expected Count	199.0	178.0	377.0
Total		Count	341	305	646
		Expected Count	341.0	305.0	646.0

Table VI.103: Cross-tabulation between sex and elaborate/plain earth graves for all cemeteries

Chi-Square Tests (b) - all cemeteries				
	Value	df	Asymp. Sig. (2-sided)	Exact Sig. (2-sided)
Pearson Chi-Square	.408(a)	1	.523	.576
N of Valid Cases	646			
a 0 cells (.0%) have expected count less than 5. The minimum expected count is 127.00.				
B For 2x2 cross-tabulation, exact results are provided instead of Monte Carlo results.				

Table VI.104: Chi-square test between sex and elaborate/plain earth graves for all cemeteries

Less confident sex * Elaborate? Cross-tabulation - all cemeteries					
			Elaborate?		Total
			Plain earth	Elaborate	
Less confident sex	Females	Count	151	134	285
		Expected Count	154.0	131.0	285.0
	Males	Count	216	178	394
		Expected Count	213.0	181.0	394.0
Total	Count	367	312	679	
	Expected Count	367.0	312.0	679.0	

Table VI.105: Cross-tabulation between sex and elaborate/plain earth graves for all cemeteries including possible males and females

Chi-Square Tests (b) - all cemeteries				
	Value	df	Asymp. Sig. (2-sided)	Exact Sig. (2-sided)
Pearson Chi-Square	.225(a)	1	.635	.641
N of Valid Cases	679			
a 0 cells (.0%) have expected count less than 5. The minimum expected count is 130.96.				
B For 2x2 cross-tabulation, exact results are provided instead of Monte Carlo results.				

Table VI.106: Chi-square test between sex and elaborate/plain earth graves for all cemeteries including possible males and females

Age * Grave type less confident * Sex confident Cross-tabulation - York Minster								
				Grave type less confident				Total
Sex confident				Plain earth	Coffin	Lined	Sarcophagus	
Female	Age	Young Adult	Count	1	1	0	1	3
			Expected Count	1.4	1.1	.3	.3	3.0
		Mid Adult	Count	3	3	1	0	7
			Expected Count	3.2	2.5	.6	.6	7.0
		Old Adult	Count	1	0	0	0	1
			Expected Count	.5	.4	.1	.1	1.0
	Total	Count	5	4	1	1	11	
		Expected Count	5.0	4.0	1.0	1.0	11.0	
Male	Age	Young Adult	Count	2	2		0	4
			Expected Count	2.4	1.5		.2	4.0
		Mid Adult	Count	6	1		0	7
			Expected Count	4.1	2.5		.3	7.0
		Old Adult	Count	5	5		1	11
			Expected Count	6.5	4.0		.5	11.0
	Total	Count	13	8		1	22	
		Expected Count	13.0	8.0		1.0	22.0	

Table VI.107: Cross-tabulation between age and grave type layered by sex at York Minster

Chi-Square Tests - York Minster							
		Value	df	Asymp. Sig. (2-sided)	Monte Carlo Sig. (2-sided)		
					Sig.	99% Confidence Interval	
Sex confident					Lower Bound	Upper Bound	
Female	Pearson Chi-Square	4.452(a)	6	.616	.735(b)	.724	.747
	N of Valid Cases	11					
Male	Pearson Chi-Square	3.635(c)	4	.458	.539(b)	.526	.551
	N of Valid Cases	22					

a 12 cells (100.0%) have expected count less than 5. The minimum expected count is .09.

b Based on 10000 sampled tables with starting seed 957002199.

c 8 cells (88.9%) have expected count less than 5. The minimum expected count is .18.

Table VI.108: Chi-square test between age and grave type layered by sex at York Minster

Age * Grave type less confident * Sex confident Cross-tabulation - Swinegate							
			Grave type less confident			Total	
Sex confident			Plain earth	Coffin	Plank		
Female	Age	Young Adult	Count	0	1	0	1
			Expected Count	.4	.6	.1	1.0
		Mid Adult	Count	3	5	0	8
			Expected Count	2.8	4.7	.5	8.0
		Old Adult	Count	3	4	1	8
			Expected Count	2.8	4.7	.5	8.0
	Total	Count	6	10	1	17	
		Expected Count	6.0	10.0	1.0	17.0	
Male	Age	Young Adult	Count	0	2		2
			Expected Count	1.0	1.0		2.0
		Mid Adult	Count	5	5		10
			Expected Count	4.8	5.2		10.0
		Old Adult	Count	5	4		9
			Expected Count	4.3	4.7		9.0
	Total	Count	10	11		21	
		Expected Count	10.0	11.0		21.0	

Table VI.109: Cross-tabulation between age and grave type layered by sex at Swinegate

Chi-Square Tests - Swinegate							
		Value	df	Asymp. Sig. (2-sided)	Monte Carlo Sig. (2-sided)		
					Sig.	99% Confidence Interval	
Sex confident					Lower Bound	Upper Bound	
Female	Pearson Chi-Square	1.912(a)	4	.752	1.000(b)	1.000	1.000
	N of Valid Cases	17					
Male	Pearson Chi-Square	2.068(c)	2	.356	.564(b)	.552	.577
	N of Valid Cases	21					

a 9 cells (100.0%) have expected count less than 5. The minimum expected count is .06.

b Based on 10000 sampled tables with starting seed 475497203.

c 5 cells (83.3%) have expected count less than 5. The minimum expected count is .95.

Table VI.110: Chi-square test between age and grave type layered by sex at Swinegate

Age * Grave type less confident * Sex confident Cross-tabulation - St Andrew's Fishergate						
				Grave type less confident		Total
Sex confident				Plain earth	Coffin	
Female	Age	Mid Adult	Count	12	2	14
			Expected Count	12.4	1.6	14.0
		Old Adult	Count	11	1	12
			Expected Count	10.6	1.4	12.0
	Total	Count	23	3	26	
		Expected Count	23.0	3.0	26.0	
Male	Age	Young Adult	Count	3	0	3
			Expected Count	2.7	.3	3.0
		Mid Adult	Count	30	2	32
			Expected Count	29.1	2.9	32.0
		Old Adult	Count	7	2	9
			Expected Count	8.2	.8	9.0
	Total	Count	40	4	44	
		Expected Count	40.0	4.0	44.0	

Table VI.111: Cross-tabulation between age and grave type layered by sex at St Andrew's Fishergate

Chi-Square Tests (d) - St Andrew's Fishergate							
		Value	df	Asymp. Sig. (2-sided)	Exact Sig. (2-sided)	Monte Carlo Sig. (2-sided)	
						Sig.	99% Confidence Interval
Sex confident							Lower Bound
Female	Pearson Chi-Square	.224(a)	1	.636	1.000		
	N of Valid Cases	26					
Male	Pearson Chi-Square	2.490(b)	2	.288	.398(c)	.386	.411
	N of Valid Cases	44					
a 2 cells (50.0%) have expected count less than 5. The minimum expected count is 1.38.							
b 4 cells (66.7%) have expected count less than 5. The minimum expected count is .27.							
c Based on 10000 sampled tables with starting seed 126474071.							
d For 2x2 cross-tabulation, exact results are provided instead of Monte Carlo results.							

Table VI.112: Chi-square test between age and grave type layered by sex at St Andrew's Fishergate

Age * Grave type less confident * Sex confident Cross-tabulation - St Peter's Barton-on-Humber							
				Grave type less confident			Total
Sex confident				Plain earth	Coffin	Plank	
Female	Age	Young Adult	Count	7	17	0	24
			Expected Count	7.0	16.2	.8	24.0
		Mid Adult	Count	14	42	3	59
			Expected Count	17.2	39.8	2.0	59.0
		Old Adult	Count	14	22	1	37
			Expected Count	10.8	25.0	1.2	37.0
	Total	Count	35	81	4	120	
		Expected Count	35.0	81.0	4.0	120.0	
Male	Age	Young Adult	Count	4	3	0	7
			Expected Count	2.1	4.7	.2	7.0
		Mid Adult	Count	22	41	2	65
			Expected Count	19.4	43.5	2.1	65.0
		Old Adult	Count	20	59	3	82
			Expected Count	24.5	54.8	2.7	82.0
	Total	Count	46	103	5	154	
		Expected Count	46.0	103.0	5.0	154.0	

Table VI.113: Cross-tabulation between age and grave type layered by sex at St Peter's Barton-on-Humber

Chi-Square Tests - St Peter's Barton-on-Humber							
		Value	df	Asymp. Sig. (2-sided)	Monte Carlo Sig. (2-sided)		
					Sig.	99% Confidence Interval	
Sex confident						Lower Bound	Upper Bound
Female	Pearson Chi-Square	3.452(a)	4	.485	.497(b)	.484	.510
	N of Valid Cases	120					
Male	Pearson Chi-Square	4.247(c)	4	.374	.378(b)	.365	.390
	N of Valid Cases	154					

a 3 cells (33.3%) have expected count less than 5. The minimum expected count is .80.

b Based on 10000 sampled tables with starting seed 1487459085.

c 5 cells (55.6%) have expected count less than 5. The minimum expected count is .23.

Table VI.114: Chi-square test between age and grave type layered by sex at St Peter's Barton-on-Humber

Age * Grave type less confident * Sex confident Cross-tabulation - Barrow-on-Humber							
			Grave type less confident			Total	
Sex confident			Plain earth	Coffin	Lined		
Female	Age	Young Adult	Count	4	0		4
			Expected Count	3.7	.3		4.0
		Mid Adult	Count	3	0		3
			Expected Count	2.8	.2		3.0
		Old Adult	Count	6	1		7
			Expected Count	6.5	.5		7.0
	Total	Count	13	1		14	
		Expected Count	13.0	1.0		14.0	
Male	Age	Young Adult	Count	5	0	0	5
			Expected Count	4.7	.2	.2	5.0
		Mid Adult	Count	11	1	0	12
			Expected Count	11.3	.4	.4	12.0
		Old Adult	Count	14	0	1	15
			Expected Count	14.1	.5	.5	15.0
	Total	Count	30	1	1	32	
		Expected Count	30.0	1.0	1.0	32.0	

Table VI.115: Cross-tabulation between age and grave type layered by sex at Barrow-on-Humber

Chi-Square Tests - Barrow-on-Humber							
		Value	df	Asymp. Sig. (2-sided)	Monte Carlo Sig. (2-sided)		
Sex confident					Sig.	99% Confidence Interval	
					Lower Bound	Upper Bound	
Female	Pearson Chi-Square	1.077(a)	2	.584	1.000(b)	1.000	1.000
	N of Valid Cases	14					
Male	Pearson Chi-Square	2.827(c)	4	.587	.797(b)	.786	.807
	N of Valid Cases	32					

a 5 cells (83.3%) have expected count less than 5. The minimum expected count is .21.

b Based on 10000 sampled tables with starting seed 1131884899.

c 7 cells (77.8%) have expected count less than 5. The minimum expected count is .16.

Table VI.116: Chi-square test between age and grave type layered by sex at Barrow-on-Humber

Age * Grave type less confident * Sex confident Cross-tabulation - St Mark's Lincoln						
Sex confident			Grave type less confident			Total
			Plain earth	Coffin	Lined	
Female	Age	Mid Adult	Count	14	1	15
			Expected Count	14.1	.9	15.0
		Old Adult	Count	1	0	1
			Expected Count	.9	.1	1.0
	Total	Count	15	1	16	
		Expected Count	15.0	1.0	16.0	
Male	Age	Mid Adult	Count	12	7	19
			Expected Count	11.6	7.4	19.0
		Old Adult	Count	2	2	4
			Expected Count	2.4	1.6	4.0
	Total	Count	14	9	23	
		Expected Count	14.0	9.0	23.0	

Table VI.117: Cross-tabulation between age and grave type layered by sex at St Mark's Lincoln

Chi-Square Tests(c) - St Mark's Lincoln					
Sex confident		Value	df	Asymp. Sig. (2-sided)	Exact Sig. (2-sided)
Female	Pearson Chi-Square	.071(a)	1	.790	1.000
	N of Valid Cases	16			
Male	Pearson Chi-Square	.240(b)	1	.624	1.000
	N of Valid Cases	23			

a 3 cells (75.0%) have expected count less than 5. The minimum expected count is .06.

b 2 cells (50.0%) have expected count less than 5. The minimum expected count is 1.57.

c For 2x2 cross-tabulation, exact results are provided instead of Monte Carlo results.

Table VI.118: Chi-square test between age and grave type layered by sex at St Mark's Lincoln

Age * Grave type less confident * Sex confident Cross-tabulation - all cemeteries									
			Grave type less confident					Total	
Sex confident			Plain earth	Coffin	Plank	Lined	Sarcophagus		
Female	Age	Young Adult	Count	12	19	0	0	1	32
			Expected Count	15.2	15.5	.8	.3	.2	32.0
		Mid Adult	Count	49	52	3	2	0	106
			Expected Count	50.4	51.4	2.6	1.0	.5	106.0
		Old Adult	Count	36	28	2	0	0	66
			Expected Count	31.4	32.0	1.6	.6	.3	66.0
	Total	Count	97	99	5	2	1	204	
		Expected Count	97.0	99.0	5.0	2.0	1.0	204.0	
	Male	Age	Young Adult	Count	14	7	0	0	0
Expected Count				10.9	9.6	.4	.1	.1	21.0
Mid Adult			Count	86	57	2	0	0	145
			Expected Count	74.9	66.6	2.4	.5	.5	145.0
Old Adult			Count	53	72	3	1	1	130
			Expected Count	67.2	59.7	2.2	.4	.4	130.0
Total		Count	153	136	5	1	1	296	
		Expected Count	153.0	136.0	5.0	1.0	1.0	296.0	

Table VI.119: Cross-tabulation between age and grave type layered by sex for all cemeteries

Chi-Square Tests - all cemeteries							
		Value	df	Asymp. Sig. (2-sided)	Monte Carlo Sig. (2-sided)		
					Sig.	99% Confidence Interval	
Sex confident					Lower Bound	Upper Bound	
Female	Pearson Chi-Square	10.848(a)	8	.210	.190(b)	.180	.200
	N of Valid Cases	204					
Male	Pearson Chi-Square	13.463(c)	8	.097	.159(b)	.149	.168
	N of Valid Cases	296					

a 9 cells (60.0%) have expected count less than 5. The minimum expected count is .16.

b Based on 10000 sampled tables with starting seed 2110151063.

c 9 cells (60.0%) have expected count less than 5. The minimum expected count is .07.

Table VI.120: Chi-square test between age and grave type layered by sex for all cemeteries

Cemetery Area * Grave Type Cross-tabulation - York Minster														
		Grave Type												
		Plain Earth	Coffin (stainy/wood)	Coffin (fitting)	Chest Burial	? Coffin	Wood Plank	Clinker Built Plank	Stone-lined	Other Lined	Sarcophagus	Total		
Cemetery Area	1	Count	35	3	0	0	0	0	0	0	4	2	4	48
		Expected Count	32.5	3.8	1.4	2.4	2.4	.5	1.9	.9	1.9	.9	1.9	48.0
	2	Count	22	3	0	5	1	0	0	0	0	0	0	31
		Expected Count	21.0	2.4	.9	1.5	1.5	.3	1.2	.6	1.2	.6	1.2	31.0
	3	Count	10	0	2	0	4	0	0	0	0	0	0	17
		Expected Count	11.5	1.3	.5	.8	.8	.2	.7	.3	.7	.3	.7	17.0
	4	Count	2	2	1	0	0	1	0	0	0	0	0	6
		Expected Count	4.1	.5	.2	.3	.3	.1	.2	.1	.2	.1	.2	6.0
	Total	Count	69	8	3	5	5	1	1	4	2	4	2	102
		Expected Count	69.0	8.0	3.0	5.0	5.0	1.0	1.0	4.0	2.0	4.0	2.0	102.0

Table VI.121: Cross-tabulation between grave type and cemetery area at York Minster

Chi-Square Tests - York Minster				
Value	df	Asymp. Sig. (2-sided)	Monte Carlo Sig. (2-sided)	
			Sig.	99% Confidence Interval
			Lower Bound	Upper Bound
Pearson Chi-Square	77.306(a)	27	.000	.000
N of Valid Cases	102			

a 37 cells (92.5%) have expected count less than 5. The minimum expected count is .06.
 b Based on 10000 sampled tables with starting seed 624387341.

Table VI.122: Chi-square test between grave type and cemetery area at York Minster

Cemetery Area * Grave type confident Cross-tabulation - York Minster								
		Grave type confident					Total	
		Plain earth	Coffin	Plank	Lined	Sarcophagus		
Cemetery Area	1	Count	35	3	0	6	4	48
		Expected Count	32.5	9.9	.9	2.8	1.9	48.0
	2	Count	22	9	0	0	0	31
		Expected Count	21.0	6.4	.6	1.8	1.2	31.0
	3	Count	10	6	1	0	0	17
		Expected Count	11.5	3.5	.3	1.0	.7	17.0
	4	Count	2	3	1	0	0	6
		Expected Count	4.1	1.2	.1	.4	.2	6.0
Total	Count	69	21	2	6	4	102	
	Expected Count	69.0	21.0	2.0	6.0	4.0	102.0	

Table VI.123: Cross-tabulation between broad grave type categories and cemetery area (?coffins treated as coffins) at York Minster

Chi-Square Tests - York Minster						
	Value	df	Asymp. Sig. (2-sided)	Monte Carlo Sig. (2-sided)		
				Sig.	99% Confidence Interval	
					Lower Bound	Upper Bound
Pearson Chi-Square	32.411(a)	12	.001	.006(b)	.004	.008
N of Valid Cases	102					

a 15 cells (75.0%) have expected count less than 5. The minimum expected count is .12.

b Based on 10000 sampled tables with starting seed 957002199.

Table VI.124: Chi-square test between broad grave type categories and cemetery area (?coffins treated as coffins) at York Minster

Cemetery Area * Grave type less confident Cross-tabulation - York Minster								
		Grave type less confident					Total	
		Plain earth	Coffin	Plank	Lined	Sarcophagus		
Cemetery Area	1	Count	35	3	0	6	4	48
		Expected Count	34.8	7.5	.9	2.8	1.9	48.0
	2	Count	23	8	0	0	0	31
		Expected Count	22.5	4.9	.6	1.8	1.2	31.0
	3	Count	14	2	1	0	0	17
		Expected Count	12.3	2.7	.3	1.0	.7	17.0
	4	Count	2	3	1	0	0	6
		Expected Count	4.4	.9	.1	.4	.2	6.0
Total	Count	74	16	2	6	4	102	
	Expected Count	74.0	16.0	2.0	6.0	4.0	102.0	

Table VI.125: Cross-tabulation between broad grave type categories and cemetery area (?coffins treated as plain earth graves) at York Minster

Chi-Square Tests - York Minster						
	Value	df	Asymp. Sig. (2-sided)	Monte Carlo Sig. (2-sided)		
				Sig.	99% Confidence Interval	
					Lower Bound	Upper Bound
Pearson Chi-Square	31.679(a)	12	.002	.007(b)	.005	.009
N of Valid Cases	102					
a 16 cells (80.0%) have expected count less than 5. The minimum expected count is .12.						
b Based on 10000 sampled tables with starting seed 92208573.						

Table VI.126: Chi-square test between broad grave type categories and cemetery area (?coffins treated as plain earth graves) at York Minster

Cemetery Area * Charcoal burial Cross-tabulation - York Minster					
		Charcoal burial		Total	
		No Charcoal	Charcoal burial		
Cemetery Area	1	Count	48	10	58
		Expected Count	51.0	7.0	58.0
	2	Count	31	2	33
		Expected Count	29.0	4.0	33.0
	3	Count	18	0	18
		Expected Count	15.8	2.2	18.0
	4	Count	5	2	7
		Expected Count	6.2	.8	7.0
Total	Count	102	14	116	
	Expected Count	102.0	14.0	116.0	

Table VI.127: Cross-tabulation between charcoal burials and cemetery area at York Minster

Chi-Square Tests - York Minster						
	Value	df	Asymp. Sig. (2-sided)	Monte Carlo Sig. (2-sided)		
				Sig.	99% Confidence Interval	
					Lower Bound	Upper Bound
Pearson Chi-Square	6.852(a)	3	.077	.079(b)	.072	.086
N of Valid Cases	116					
a 3 cells (37.5%) have expected count less than 5. The minimum expected count is .84.						
b Based on 10000 sampled tables with starting seed 126474071.						

Table VI.128: Chi-square test between charcoal burials and cemetery area at York Minster

Cemetery Area * Pillow Stones Cross-tabulation - York Minster					
		Pillow Stones		Total	
		No pillow stones	Pillow stones		
Cemetery Area	1	Count	57	1	58
		Expected Count	56.0	2.0	58.0
	2	Count	31	2	33
		Expected Count	31.9	1.1	33.0
	3	Count	17	1	18
		Expected Count	17.4	.6	18.0
	4	Count	7	0	7
		Expected Count	6.8	.2	7.0
Total	Count	112	4	116	
	Expected Count	112.0	4.0	116.0	

Table VI.129: Cross-tabulation between pillow stones and cemetery area at York Minster

Chi-Square Tests - York Minster						
	Value	df	Asymp. Sig. (2-sided)	Monte Carlo Sig. (2-sided)		
				Sig.	99% Confidence Interval	
					Lower Bound	Upper Bound
Pearson Chi-Square	1.684(a)	3	.640	.594(b)	.582	.607
N of Valid Cases	116					

a 4 cells (50.0%) have expected count less than 5. The minimum expected count is .24.

b Based on 10000 sampled tables with starting seed 1487459085.

Table VI.130: Chi-square test between pillow stones and cemetery area at York Minster

Cemetery Area * Grave Cover Cross-tabulation - York Minster					
		Grave Cover		Total	
		No grave cover	Grave cover		
Cemetery Area	1	Count	49	9	58
		Expected Count	53.5	4.5	58.0
	2	Count	33	0	33
		Expected Count	30.4	2.6	33.0
	3	Count	18	0	18
		Expected Count	16.6	1.4	18.0
	4	Count	7	0	7
		Expected Count	6.5	.5	7.0
Total	Count	107	9	116	
	Expected Count	107.0	9.0	116.0	

Table VI.131: Cross-tabulation between grave covers and cemetery area at York Minster

Chi-Square Tests - York Minster						
	Value	df	Asymp. Sig. (2-sided)	Monte Carlo Sig. (2-sided)		
				Sig.	99% Confidence Interval	
					Lower Bound	Upper Bound
Pearson Chi-Square	9.757(a)	3	.021	.024(b)	.020	.028
N of Valid Cases	116					
a 4 cells (50.0%) have expected count less than 5. The minimum expected count is .54.						
b Based on 10000 sampled tables with starting seed 726961337.						

Table VI.132: Chi-square test between grave covers and cemetery area at York Minster

Cemetery Area * Sex confident Cross-tabulation - York Minster					
		Sex confident		Total	
		Female	Male		
Cemetery Area	1	Count	2	9	11
		Expected Count	3.0	8.0	11.0
	2	Count	7	15	22
		Expected Count	6.1	15.9	22.0
	3	Count	2	8	10
		Expected Count	2.8	7.2	10.0
	4	Count	2	2	4
		Expected Count	1.1	2.9	4.0
Total	Count	13	34	47	
	Expected Count	13.0	34.0	47.0	

Table VI.133: Cross-tabulation between sex and cemetery area at York Minster

Chi-Square Tests - York Minster						
	Value	df	Asymp. Sig. (2-sided)	Monte Carlo Sig. (2-sided)		
				Sig.	99% Confidence Interval	
					Lower Bound	Upper Bound
Pearson Chi-Square	1.975(a)	3	.578	.663(b)	.651	.675
N of Valid Cases	47					
a 4 cells (50.0%) have expected count less than 5. The minimum expected count is 1.11.						
b Based on 10000 sampled tables with starting seed 79654295.						

Table VI.134: Chi-square test between sex and cemetery area at York Minster

Cemetery Area * Less confident sex Cross-tabulation - York Minster					
		Less confident sex		Total	
		Females	Males		
Cemetery Area	1	Count	4	13	17
		Expected Count	4.8	12.2	17.0
	2	Count	7	15	22
		Expected Count	6.2	15.8	22.0
	3	Count	2	8	10
		Expected Count	2.8	7.2	10.0
	4	Count	2	2	4
		Expected Count	1.1	2.9	4.0
Total	Count	15	38	53	
	Expected Count	15.0	38.0	53.0	

Table VI.135: Cross-tabulation between sex (including possible males and females) and cemetery area at York Minster

Chi-Square Tests - York Minster						
	Value	df	Asymp. Sig. (2-sided)	Monte Carlo Sig. (2-sided)		
				Sig.	99% Confidence Interval	
					Lower Bound	Upper Bound
Pearson Chi-Square	1.593(a)	3	.661	.722(b)	.711	.734
N of Valid Cases	53					
a 4 cells (50.0%) have expected count less than 5. The minimum expected count is 1.13.						
b Based on 10000 sampled tables with starting seed 475497203.						

Table VI.136: Chi-square test between sex (including possible males and females) and cemetery area at York Minster

Ranks - York Minster			
	Cemetery Area	N	Mean Rank
Age	1	21	25.17
	2	18	29.61
	3	10	27.55
	4	4	23.50
	Total	53	

Table VI.137: Mean ranks for age and cemetery area at York Minster

Test Statistics (a, b) - York Minster	
	Age
Chi-Square	1.096
df	3
Asymp. Sig.	.778
a Kruskal-Wallis Test	
b Grouping Variable: Cemetery Area	

Table VI.138: Kruskal-Wallis test between age and cemetery area at York Minster

Grave type confident * Cemetery Area Cross-tabulation - Swinegate							
			Cemetery Area				Total
			1	2	3	4	
Grave type confident	Plain earth	Count	11	12	19	11	53
		Expected Count	14.5	13.4	13.9	11.2	53.0
	Coffin	Count	15	13	6	4	38
		Expected Count	10.4	9.6	10.0	8.1	38.0
	Plank	Count	1	0	1	6	8
		Expected Count	2.2	2.0	2.1	1.7	8.0
Total		Count	27	25	26	21	99
		Expected Count	27.0	25.0	26.0	21.0	99.0

Table VI.139: Cross-tabulation between grave type and cemetery area at Swinegate

Chi-Square Tests - Swinegate						
	Value	df	Asymp. Sig. (2-sided)	Monte Carlo Sig. (2-sided)		
				Sig.	99% Confidence Interval	
					Lower Bound	Upper Bound
Pearson Chi-Square	23.891(a)	6	.001	.001(b)	.000	.001
N of Valid Cases	99					
a 4 cells (33.3%) have expected count less than 5. The minimum expected count is 1.70.						
b Based on 10000 sampled tables with starting seed 1634676757.						

Table VI.140: Chi-square test between grave type and cemetery area at Swinegate

Sex confident * Cemetery Area Cross-tabulation - Swinegate							
			Cemetery Area				Total
			1	2	3	4	
Sex confident	Female	Count	7	5	4	3	19
		Expected Count	6.3	5.4	3.6	3.6	19.0
	Male	Count	7	7	4	5	23
		Expected Count	7.7	6.6	4.4	4.4	23.0
Total		Count	14	12	8	8	42
		Expected Count	14.0	12.0	8.0	8.0	42.0

Table VI.141: Cross-tabulation between sex and cemetery area at Swinegate

Chi-Square Tests - Swinegate						
	Value	df	Asymp. Sig. (2-sided)	Monte Carlo Sig. (2-sided)		
				Sig.	99% Confidence Interval	
					Lower Bound	Upper Bound
Pearson Chi-Square	.457(a)	3	.928	.923(b)	.916	.930
N of Valid Cases	42					

a 4 cells (50.0%) have expected count less than 5. The minimum expected count is 3.62.

b Based on 10000 sampled tables with starting seed 391318613.

Table VI.142: Chi-square test between sex and cemetery area at Swinegate

Less confident sex * Cemetery Area Cross-tabulation - Swinegate							
			Cemetery Area				Total
			1	2	3	4	
Less confident sex	Females	Count	9	8	8	4	29
		Expected Count	9.0	8.5	6.5	5.0	29.0
	Males	Count	9	9	5	6	29
		Expected Count	9.0	8.5	6.5	5.0	29.0
Total		Count	18	17	13	10	58
		Expected Count	18.0	17.0	13.0	10.0	58.0

Table VI.143: Cross-tabulation between sex (including possible males and females) and cemetery area at Swinegate

Chi-Square Tests - Swinegate						
	Value	df	Asymp. Sig. (2-sided)	Monte Carlo Sig. (2-sided)		
				Sig.	99% Confidence Interval	
					Lower Bound	Upper Bound
Pearson Chi-Square	1.151(a)	3	.765	.780(b)	.769	.791
N of Valid Cases	58					
a 0 cells (.0%) have expected count less than 5. The minimum expected count is 5.00.						
b Based on 10000 sampled tables with starting seed 263739791.						

Table VI.144: Chi-square test between sex (including possible males and females) and cemetery area at Swinegate

Ranks - Swinegate			
	Cemetery Area	N	Mean Rank
Age	1	20	49.60
	2	21	50.29
	3	22	30.68
	4	17	30.41
	Total	80	

Table VI.145: Mean ranks for age and cemetery area at Swinegate

Test Statistics (a, b) - Swinegate	
	Age
Chi-Square	14.794
df	3
Asymp. Sig.	.002
a Kruskal-Wallis Test	
b Grouping Variable: Cemetery Area	

Table VI.146: Kruskal-Wallis test between age and cemetery area at Swinegate

Grave type less confident * Cemetery Area Cross-tabulation - St Andrew's Fishergate						
			Cemetery Area			Total
			North of ?church	Under/E/W of ?church	South of ?church	
Grave type less confident	Plain earth	Count	23	54	29	106
		Expected Count	24.6	53.0	28.4	106.0
	Coffin	Count	3	2	1	6
		Expected Count	1.4	3.0	1.6	6.0
Total		Count	26	56	30	112
		Expected Count	26.0	56.0	30.0	112.0

Table VI.147: Cross-tabulation between grave type and cemetery area at St Andrew's Fishergate

Chi-Square Tests - St Andrew's Fishergate						
	Value	df	Asymp. Sig. (2-sided)	Monte Carlo Sig. (2-sided)		
				Sig.	99% Confidence Interval	
					Lower Bound	Upper Bound
Pearson Chi-Square	2.554(a)	2	.279	.357(b)	.345	.370
N of Valid Cases	112					

a 3 cells (50.0%) have expected count less than 5. The minimum expected count is 1.39.

b Based on 10000 sampled tables with starting seed 957002199.

Table VI.148: Chi-square test between grave type and cemetery area at St Andrew's Fishergate

Sex confident * Cemetery Area Cross-tabulation - St Andrew's Fishergate						
			Cemetery Area			Total
			North of ?church	Under/E/W of ?church	South of ?church	
Sex confident	Female	Count	10	11	10	31
		Expected Count	8.0	13.0	10.1	31.0
	Male	Count	9	20	14	43
		Expected Count	11.0	18.0	13.9	43.0
Total		Count	19	31	24	74
		Expected Count	19.0	31.0	24.0	74.0

Table VI.149: Cross-tabulation between sex and cemetery area at St Andrew's Fishergate

Chi-Square Tests – St Andrew’s Fishergate						
	Value	df	Asymp. Sig. (2-sided)	Monte Carlo Sig. (2-sided)		
				Sig.	99% Confidence Interval	
					Lower Bound	Upper Bound
Pearson Chi-Square	1.424(a)	2	.491	.478(b)	.465	.491
N of Valid Cases	74					
a 0 cells (.0%) have expected count less than 5. The minimum expected count is 7.96.						
b Based on 10000 sampled tables with starting seed 92208573.						

Table VI.150: Chi-square test between sex and cemetery area at St Andrew’s Fishergate

Ranks – St Andrew’s Fishergate			
	Cemetery Area	N	Mean Rank
Age	North of ?church	23	56.15
	Under/E/W of ?church	50	44.25
	South of ?church	28	58.82
	Total	101	

Table VI.151: Mean ranks for age and cemetery area at St Andrew’s Fishergate

Test Statistics (a, b) – St Andrew’s Fishergate	
	Age
Chi-Square	5.936
df	2
Asymp. Sig.	.051
a Kruskal-Wallis Test	
b Grouping Variable: Cemetery Area	

Table VI.152: Kruskal-Wallis test between age and cemetery area at St Andrew’s Fishergate

Detailed grave type * Cemetery Quadrant Cross-tabulation - St Peter's Barton-on-Humber																	
			Cemetery Quadrant														Total
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	
Detailed grave type	Plain earth	Count	13	46	25	19	10	0	18	0	2	9	39	39	35	6	261
		Expected Count	7.6	44.6	21.9	38.2	13.9	3.8	14.7	.8	2.1	7.6	40.8	26.1	33.2	5.9	261.0
	Coffin	Count	5	44	20	62	22	9	16	2	3	8	51	20	40	7	309
		Expected Count	9.0	52.7	25.9	45.3	16.4	4.5	17.4	1.0	2.5	9.0	48.3	30.9	39.3	7.0	309.0
	Clinker-built coffin	Count	0	13	5	6	0	0	1	0	0	0	5	1	0	1	32
		Expected Count	.9	5.5	2.7	4.7	1.7	.5	1.8	.1	.3	.9	5.0	3.2	4.1	.7	32.0
	Plank	Count	0	1	1	3	1	0	0	0	0	0	2	2	4	0	14
		Expected Count	.4	2.4	1.2	2.1	.7	.2	.8	.0	.1	.4	2.2	1.4	1.8	.3	14.0
	Clinker-built plank	Count	0	2	0	1	0	0	0	0	0	1	0	0	0	0	4
		Expected Count	.1	.7	.3	.6	.2	.1	.2	.0	.0	.1	.6	.4	.5	.1	4.0
	Other lined	Count	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
		Expected Count	.0	.2	.1	.1	.1	.0	.1	.0	.0	.0	.2	.1	.1	.0	1.0
	Total	Count	18	106	52	91	33	9	35	2	5	18	97	62	79	14	621
		Expected Count	18.0	106.0	52.0	91.0	33.0	9.0	35.0	2.0	5.0	18.0	97.0	62.0	79.0	14.0	621.0

Table VI.153: Cross-tabulation between grave type and cemetery quadrant at St Peter's Barton-on-Humber

Chi-Square Tests - St Peter's Barton-on-Humber						
	Value	df	Asymp. Sig. (2-sided)	Monte Carlo Sig. (2-sided)		
				Sig.	99% Confidence Interval	
					Lower Bound	Upper Bound
Pearson Chi-Square	102.907(a)	65	.002	.053(b)	.048	.059
N of Valid Cases	621					
a 61 cells (72.6%) have expected count less than 5. The minimum expected count is .00.						
b Based on 10000 sampled tables with starting seed 1066061003.						

Table VI.154: Chi-square test between grave type and cemetery quadrant at St Peter's Barton-on-Humber

Detailed grave type confident * Cemetery Quadrant Cross-tabulation - St Peter's Barton-on-Humber																	
			Cemetery Quadrant														Total
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	
Detailed grave type confident	Plain earth	Count	16	64	36	26	12	1	19	0	3	12	50	43	45	8	335
		Expected Count	9.7	57.2	28.1	49.1	17.8	4.9	18.9	1.1	2.7	9.7	52.3	33.4	42.6	7.6	335.0
	Coffin	Count	2	30	11	55	20	8	15	2	2	5	42	16	30	6	244
		Expected Count	7.1	41.6	20.4	35.8	13.0	3.5	13.8	.8	2.0	7.1	38.1	24.4	31.0	5.5	244.0
	Clinker-built coffin	Count	0	9	3	6	0	0	1	0	0	0	3	1	0	0	23
		Expected Count	.7	3.9	1.9	3.4	1.2	.3	1.3	.1	.2	.7	3.6	2.3	2.9	.5	23.0
	Plank	Count	0	1	1	3	1	0	0	0	0	0	2	2	4	0	14
		Expected Count	.4	2.4	1.2	2.1	.7	.2	.8	.0	.1	.4	2.2	1.4	1.8	.3	14.0
	Clinker-built plank	Count	0	2	0	1	0	0	0	0	0	1	0	0	0	0	4
		Expected Count	.1	.7	.3	.6	.2	.1	.2	.0	.0	.1	.6	.4	.5	.1	4.0
	Other lined	Count	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
		Expected Count	.0	.2	.1	.1	.1	.0	.1	.0	.0	.0	.2	.1	.1	.0	1.0
	Total	Count	18	106	52	91	33	9	35	2	5	18	97	62	79	14	621
		Expected Count	18.0	106.0	52.0	91.0	33.0	9.0	35.0	2.0	5.0	18.0	97.0	62.0	79.0	14.0	621.0

Table VI.155: Cross-tabulation between grave type and cemetery quadrant at St Peter's Barton-on-Humber ('?coffins' treated as plain earth graves)

Chi-Square Tests - St Peter's Barton-on-Humber						
	Value	df	Asymp. Sig. (2-sided)	Monte Carlo Sig. (2-sided)		
				Sig.	99% Confidence Interval	
					Lower Bound	Upper Bound
Pearson Chi-Square	111.108(a)	65	.000	.045(b)	.039	.050
N of Valid Cases	621					

a 62 cells (73.8%) have expected count less than 5. The minimum expected count is .00.

b Based on 10000 sampled tables with starting seed 143709387.

Table VI.156: Chi-square test between grave type and cemetery quadrant at St Peter's Barton-on-Humber

Grave type less confident * Cemetery Quadrant Cross-tabulation - St Peter's Barton-on-Humber																	
			Cemetery Quadrant														Total
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	
Grave type less confident	Plain earth	Count	13	46	25	19	10	0	18	0	2	9	39	39	35	6	261
		Expected Count	7.6	44.6	21.9	38.2	13.9	3.8	14.7	.8	2.1	7.6	40.8	26.1	33.2	5.9	261.0
	Coffin	Count	5	57	25	68	22	9	17	2	3	8	56	21	40	8	341
		Expected Count	9.9	58.2	28.6	50.0	18.1	4.9	19.2	1.1	2.7	9.9	53.3	34.0	43.4	7.7	341.0
	Plank	Count	0	3	1	4	1	0	0	0	0	1	2	2	4	0	18
		Expected Count	.5	3.1	1.5	2.6	1.0	.3	1.0	.1	.1	.5	2.8	1.8	2.3	.4	18.0
	Lined	Count	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
		Expected Count	.0	.2	.1	.1	.1	.0	.1	.0	.0	.0	.2	.1	.1	.0	1.0
	Total	Count	18	106	52	91	33	9	35	2	5	18	97	62	79	14	621
		Expected Count	18.0	106.0	52.0	91.0	33.0	9.0	35.0	2.0	5.0	18.0	97.0	62.0	79.0	14.0	621.0

Table VI.157: Cross-tabulation between combined grave types and cemetery quadrant at St Peter's Barton-on-Humber

Chi-Square Tests - St Peter's Barton-on-Humber						
	Value	df	Asymp. Sig. (2-sided)	Monte Carlo Sig. (2-sided)		
				Sig.	99% Confidence Interval	
					Lower Bound	Upper Bound
Pearson Chi-Square	63.951(a)	39	.007	.060(b)	.054	.067
N of Valid Cases	621					

a 34 cells (60.7%) have expected count less than 5. The minimum expected count is .00.

b Based on 10000 sampled tables with starting seed 342397067.

Table VI.158: Chi-square test between combined grave types and cemetery quadrant at St Peter's Barton-on-Humber

Grave type confident * Cemetery Quadrant Cross-tabulation - St Peter's Barton-on-Humber																	
			Cemetery Quadrant														Total
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	
Grave type confident	Plain earth	Count	16	64	36	26	12	1	19	0	3	12	50	43	45	8	335
		Expected Count	9.7	57.2	28.1	49.1	17.8	4.9	18.9	1.1	2.7	9.7	52.3	33.4	42.6	7.6	335.0
	Coffin	Count	2	39	14	61	20	8	16	2	2	5	45	17	30	6	267
		Expected Count	7.7	45.6	22.4	39.1	14.2	3.9	15.0	.9	2.1	7.7	41.7	26.7	34.0	6.0	267.0
	Plank	Count	0	3	1	4	1	0	0	0	0	1	2	2	4	0	18
		Expected Count	.5	3.1	1.5	2.6	1.0	.3	1.0	.1	.1	.5	2.8	1.8	2.3	.4	18.0
	Lined	Count	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
		Expected Count	.0	.2	.1	.1	.1	.0	.1	.0	.0	.0	.2	.1	.1	.0	1.0
	Total	Count	18	106	52	91	33	9	35	2	5	18	97	62	79	14	621
		Expected Count	18.0	106.0	52.0	91.0	33.0	9.0	35.0	2.0	5.0	18.0	97.0	62.0	79.0	14.0	621.0

Table VI.159: Cross-tabulation between combined grave types and cemetery quadrant at St Peter's Barton-on-Humber ('?coffins' treated as plain earth graves)

Chi-Square Tests - St Peter's Barton-on-Humber						
	Value	df	Asymp. Sig. (2-sided)	Monte Carlo Sig. (2-sided)		
				Sig.	99% Confidence Interval	
					Lower Bound	Upper Bound
Pearson Chi-Square	77.918(a)	39	.000	.031(b)	.026	.035
N of Valid Cases	621					

a 34 cells (60.7%) have expected count less than 5. The minimum expected count is .00.

b Based on 10000 sampled tables with starting seed 774573638.

Table VI.160: Chi-square test between combined grave types and cemetery quadrant at St Peter's Barton-on-Humber ('?coffins' treated as plain earth graves)

Detailed grave type * Cemetery Area Cross-tabulation - St Peter's Barton-on-Humber						
			Cemetery Area			Total
			North of church	Under/E/W of church	South of church	
Detailed grave type	Plain earth	Count	113	20	128	261
		Expected Count	125.7	21.9	113.5	261.0
	Coffin	Count	152	31	126	309
		Expected Count	148.8	25.9	134.3	309.0
	Clinker-built coffin	Count	24	1	7	32
		Expected Count	15.4	2.7	13.9	32.0
	Plank	Count	6	0	8	14
		Expected Count	6.7	1.2	6.1	14.0
	Clinker-built plank	Count	3	0	1	4
		Expected Count	1.9	.3	1.7	4.0
	Other lined	Count	1	0	0	1
		Expected Count	.5	.1	.4	1.0
	Total	Count	299	52	270	621
		Expected Count	299.0	52.0	270.0	621.0

Table VI.161: Cross-tabulation between grave type and cemetery area at St Peter's Barton-on-Humber

Chi-Square Tests - St Peter's Barton-on-Humber						
	Value	df	Asymp. Sig. (2-sided)	Monte Carlo Sig. (2-sided)		
				Sig.	99% Confidence Interval	
					Lower Bound	Upper Bound
Pearson Chi-Square	18.356(a)	10	.049	.069(b)	.062	.076
N of Valid Cases	621					

a 8 cells (44.4%) have expected count less than 5. The minimum expected count is .08.

b Based on 10000 sampled tables with starting seed 257291219.

Table VI.162: Chi-square test between grave type (?coffins treated as coffins) and cemetery area at St Peter's Barton-on-Humber

Detailed grave type confident * Cemetery Area Cross-tabulation - St Peter's Barton-on-Humber						
			Cemetery Area			Total
			North of church	Under/E/W of church	South of church	
Detailed grave type confident	Plain earth	Count	154	23	158	335
		Expected Count	161.3	28.1	145.7	335.0
	Coffin	Count	117	28	99	244
		Expected Count	117.5	20.4	106.1	244.0
	Clinker-built coffin	Count	18	1	4	23
		Expected Count	11.1	1.9	10.0	23.0
	Plank	Count	6	0	8	14
		Expected Count	6.7	1.2	6.1	14.0
	Clinker-built plank	Count	3	0	1	4
		Expected Count	1.9	.3	1.7	4.0
	Other lined	Count	1	0	0	1
		Expected Count	.5	.1	.4	1.0
	Total	Count	299	52	270	621
		Expected Count	299.0	52.0	270.0	621.0

Table VI.163: Cross-tabulation between grave type and cemetery area at St Peter's Barton-on-Humber ('?coffins' treated as plain earth graves)

Chi-Square Tests - St Peter's Barton-on-Humber						
	Value	df	Asymp. Sig. (2-sided)	Monte Carlo Sig. (2-sided)		
				Sig.	99% Confidence Interval	
					Lower Bound	Upper Bound
Pearson Chi-Square	18.122(a)	10	.053	.072(b)	.066	.079
N of Valid Cases	621					
a 8 cells (44.4%) have expected count less than 5. The minimum expected count is .08.						
b Based on 10000 sampled tables with starting seed 1451419960.						

Table VI.164: Chi-square test between grave type and cemetery area - St Peter's Barton-on-Humber ('?coffins' treated as plain earth graves)

Grave type less confident * Cemetery Area Cross-tabulation - St Peter's Barton-on-Humber						
			Cemetery Area			Total
			North of church	Under/E/W of church	South of church	
Grave type less confident	Plain earth	Count	113	20	128	261
		Expected Count	125.7	21.9	113.5	261.0
	Coffin	Count	176	32	133	341
		Expected Count	164.2	28.6	148.3	341.0
	Plank	Count	9	0	9	18
		Expected Count	8.7	1.5	7.8	18.0
	Lined	Count	1	0	0	1
		Expected Count	.5	.1	.4	1.0
Total		Count	299	52	270	621
		Expected Count	299.0	52.0	270.0	621.0

Table VI.165: Cross-tabulation between combined grave types and cemetery area at St Peter's Barton-on-Humber ('?coffins' treated as coffins)

Chi-Square Tests - St Peter's Barton-on-Humber						
	Value	df	Asymp. Sig. (2-sided)	Monte Carlo Sig. (2-sided)		
				Sig.	99% Confidence Interval	
					Lower Bound	Upper Bound
Pearson Chi-Square	8.903(a)	6	.179	.181(b)	.171	.191
N of Valid Cases	621					
a 4 cells (33.3%) have expected count less than 5. The minimum expected count is .08.						
b Based on 10000 sampled tables with starting seed 1239505935.						

Table VI.166: Chi-square test between combined grave types and cemetery area - St Peter's Barton-on-Humber ('?coffins' treated as coffins)

Grave type confident * Cemetery Area Cross-tabulation - St Peter's Barton-on-Humber							
			Cemetery Area			Total	
			North of church	Under/E/W of church	South of church		
Grave type confident	Plain earth	Count	154	23	158	335	
		Expected Count	161.3	28.1	145.7	335.0	
	Coffin	Count	135	29	103	267	
		Expected Count	128.6	22.4	116.1	267.0	
	Plank	Count	9	0	9	18	
		Expected Count	8.7	1.5	7.8	18.0	
	Lined	Count	1	0	0	1	
		Expected Count	.5	.1	.4	1.0	
	Total		Count	299	52	270	621
			Expected Count	299.0	52.0	270.0	621.0

Table VI.167: Cross-tabulation between combined grave types and cemetery area at St Peter's Barton-on-Humber ('?coffins' treated as plain earth graves)

Chi-Square Tests - St Peter's Barton-on-Humber						
	Value	df	Asymp. Sig. (2-sided)	Monte Carlo Sig. (2-sided)		
				Sig.	99% Confidence Interval	
					Lower Bound	Upper Bound
Pearson Chi-Square	8.832(a)	6	.183	.185(b)	.175	.195
N of Valid Cases	621					

a 4 cells (33.3%) have expected count less than 5. The minimum expected count is .08.

b Based on 10000 sampled tables with starting seed 1020355795.

Table VI.168: Chi-square test between combined grave types and cemetery area - St Peter's Barton-on-Humber ('?coffins' treated as plain earth graves)

Grave type less confident * Distance from Church Cross-tabulation - St Peter's Barton-on-Humber								
			Distance from Church				Total	
			Under or inside church	<5m	<10m	<15m		
Grave type less confident	Plain earth	Count	18	119	93	31	261	
		Expected Count	15.6	126.5	89.1	29.8	261.0	
	Coffin	Count	19	174	111	37	341	
		Expected Count	20.3	165.3	116.4	39.0	341.0	
	Plank	Count	0	8	7	3	18	
		Expected Count	1.1	8.7	6.1	2.1	18.0	
	Lined	Count	0	0	1	0	1	
		Expected Count	.1	.5	.3	.1	1.0	
	Total		Count	37	301	212	71	621
			Expected Count	37.0	301.0	212.0	71.0	621.0

Table VI.169: Cross-tabulation between combined grave types and cemetery zone (distance from church) at St Peter's Barton-on-Humber

Chi-Square Tests - St Peter's Barton-on-Humber						
	Value	df	Asymp. Sig. (2-sided)	Monte Carlo Sig. (2-sided)		
				Sig.	99% Confidence Interval	
					Lower Bound	Upper Bound
Pearson Chi-Square	5.557(a)	9	.783	.723(b)	.711	.735
N of Valid Cases	621					
a 6 cells (37.5%) have expected count less than 5. The minimum expected count is .06.						
b Based on 10000 sampled tables with starting seed 1429851888.						

Table VI.170: Chi-square test between combined grave types and cemetery zone (distance from church) at St Peter's Barton-on-Humber

Grave type confident * Distance from Church Cross-tabulation - St Peter's Barton-on-Humber							
			Distance from Church			Total	
			Under or inside church	<5m	<10m		<15m
Grave type confident	Plain earth	Count	19	154	121	41	335
		Expected Count	20.0	162.4	114.4	38.3	335.0
	Coffin	Count	18	139	83	27	267
		Expected Count	15.9	129.4	91.1	30.5	267.0
	Plank	Count	0	8	7	3	18
		Expected Count	1.1	8.7	6.1	2.1	18.0
	Lined	Count	0	0	1	0	1
		Expected Count	.1	.5	.3	.1	1.0
Total		Count	37	301	212	71	621
		Expected Count	37.0	301.0	212.0	71.0	621.0

Table VI.171: Cross-tabulation between combined grave types and cemetery zone (distance from church) at St Peter's Barton-on-Humber ('?coffins' treated as plain earth graves)

Chi-Square Tests - St Peter's Barton-on-Humber						
	Value	df	Asymp. Sig. (2-sided)	Monte Carlo Sig. (2-sided)		
				Sig.	99% Confidence Interval	
					Lower Bound	Upper Bound
Pearson Chi-Square	6.786(a)	9	.659	.578(b)	.566	.591
N of Valid Cases	621					
a 6 cells (37.5%) have expected count less than 5. The minimum expected count is .06.						
b Based on 10000 sampled tables with starting seed 402218460.						

Table VI.172: Chi-square test between combined grave types and cemetery zone (distance from church) at St Peter's Barton-on-Humber ('?coffins' treated as plain earth graves)

Detailed grave type * Distance from Church Cross-tabulation - St Peter's Barton-on-Humber							
			Distance from Church				Total
			Under or inside church	<5m	<10m	<15m	
Detailed grave type	Plain earth	Count	18	119	93	31	261
		Expected Count	15.6	126.5	89.1	29.8	261.0
	Coffin	Count	18	163	104	24	309
		Expected Count	18.4	149.8	105.5	35.3	309.0
	Clinker-built coffin	Count	1	11	7	13	32
		Expected Count	1.9	15.5	10.9	3.7	32.0
	Plank	Count	0	7	6	1	14
		Expected Count	.8	6.8	4.8	1.6	14.0
	Clinker-built plank	Count	0	1	1	2	4
		Expected Count	.2	1.9	1.4	.5	4.0
	Other lined	Count	0	0	1	0	1
		Expected Count	.1	.5	.3	.1	1.0
	Total	Count	37	301	212	71	621
		Expected Count	37.0	301.0	212.0	71.0	621.0

Table VI.173: Cross-tabulation between grave type and cemetery zone (distance from church) at St Peter's Barton-on-Humber

Chi-Square Tests - St Peter's Barton-on-Humber						
	Value	df	Asymp. Sig. (2-sided)	Monte Carlo Sig. (2-sided)		
				Sig.	99% Confidence Interval	
					Lower Bound	Upper Bound
Pearson Chi-Square	42.183(a)	15	.000	.002(b)	.001	.004
N of Valid Cases	621					

a 13 cells (54.2%) have expected count less than 5. The minimum expected count is .06.

b Based on 10000 sampled tables with starting seed 1241531719.

Table VI.174: Chi-square test between grave type and cemetery zone (distance from church) at St Peter's Barton-on-Humber

Detailed grave type confident * Distance from Church Cross-tabulation - St Peter's Barton-on-Humber							
			Distance from Church				Total
			Under or inside church	<5m	<10m	<15m	
Detailed grave type confident	Plain earth	Count	19	154	121	41	335
		Expected Count	20.0	162.4	114.4	38.3	335.0
	Coffin	Count	17	129	78	20	244
		Expected Count	14.5	118.3	83.3	27.9	244.0
	Clinker-built coffin	Count	1	10	5	7	23
		Expected Count	1.4	11.1	7.9	2.6	23.0
	Plank	Count	0	7	6	1	14
		Expected Count	.8	6.8	4.8	1.6	14.0
	Clinker-built plank	Count	0	1	1	2	4
		Expected Count	.2	1.9	1.4	.5	4.0
	Other lined	Count	0	0	1	0	1
		Expected Count	.1	.5	.3	.1	1.0
	Total	Count	37	301	212	71	621
		Expected Count	37.0	301.0	212.0	71.0	621.0

Table VI.175: Cross-tabulation between grave type and cemetery zone (distance from church) at St Peter's Barton-on-Humber ('?coffins' treated as plain earth graves)

Chi-Square Tests - St Peter's Barton-on-Humber						
	Value	df	Asymp. Sig. (2-sided)	Monte Carlo Sig. (2-sided)		
				Sig.	99% Confidence Interval	
					Lower Bound	Upper Bound
Pearson Chi-Square	22.836(a)	15	.088	.117(b)	.109	.125
N of Valid Cases	621					

a 13 cells (54.2%) have expected count less than 5. The minimum expected count is .06.

b Based on 10000 sampled tables with starting seed 79654295.

Table VI.176: Chi-square test between grave type and cemetery zone (distance from church) at St Peter's Barton-on-Humber ('?coffins' treated as plain earth graves)

Pillow Stones * Cemetery Quadrant Cross-tabulation - St Peter's Barton-on-Humber																	
			Cemetery Quadrant														Total
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	
Pillow Stones	No pillow stones	Count	17	100	47	79	31	9	30	2	4	18	93	64	76	16	586
		Expected Count	16.7	98.3	49.1	81.6	33.4	8.3	32.5	1.9	4.6	16.7	89.9	61.2	77.0	14.8	586.0
	Pillow stones	Count	1	6	6	9	5	0	5	0	1	0	4	2	7	0	46
		Expected Count	1.3	7.7	3.9	6.4	2.6	.7	2.5	.1	.4	1.3	7.1	4.8	6.0	1.2	46.0
Total		Count	18	106	53	88	36	9	35	2	5	18	97	66	83	16	632
		Expected Count	18.0	106.0	53.0	88.0	36.0	9.0	35.0	2.0	5.0	18.0	97.0	66.0	83.0	16.0	632.0

Table VI.177: Cross-tabulation between pillow stones and cemetery quadrant at St Peter's Barton-on-Humber

Chi-Square Tests - St Peter's Barton-on-Humber						
	Value	df	Asymp. Sig. (2-sided)	Monte Carlo Sig. (2-sided)		
				Sig.	99% Confidence Interval	
					Lower Bound	Upper Bound
Pearson Chi-Square	15.876(a)	13	.256	.257(b)	.246	.268
N of Valid Cases	632					

a 12 cells (42.9%) have expected count less than 5. The minimum expected count is .15.

b Based on 10000 sampled tables with starting seed 7698894.

Table VI.178: Chi-square test between pillow stones and cemetery quadrant at St Peter's Barton-on-Humber

Pillow Stones * Distance from Church Cross-tabulation - St Peter's Barton-on-Humber							
			Distance from Church				Total
			Under or inside church	<5m	<10m	<15m	
Pillow Stones	No pillow stones	Count	32	291	195	68	586
		Expected Count	34.3	285.6	197.5	68.6	586.0
	Pillow stones	Count	5	17	18	6	46
		Expected Count	2.7	22.4	15.5	5.4	46.0
Total		Count	37	308	213	74	632
		Expected Count	37.0	308.0	213.0	74.0	632.0

Table VI.179: Cross-tabulation between pillow stones and cemetery zone (distance from church) at St Peter's Barton-on-Humber

Chi-Square Tests - St Peter's Barton-on-Humber						
	Value	df	Asymp. Sig. (2-sided)	Monte Carlo Sig. (2-sided)		
				Sig.	99% Confidence Interval	
					Lower Bound	Upper Bound
Pearson Chi-Square	4.053(a)	3	.256	.248(b)	.237	.259
N of Valid Cases	632					
a 1 cells (12.5%) have expected count less than 5. The minimum expected count is 2.69.						
b Based on 10000 sampled tables with starting seed 407952326.						

Table VI.180: Chi-square test between pillow stones and cemetery zone (distance from church) at St Peter's Barton-on-Humber

Pillow Stones * Cemetery Area Cross-tabulation - St Peter's Barton-on-Humber						
		Cemetery Area			Total	
		North of church	Under/E/W of church	South of church		
Pillow Stones	No pillow stones	Count	273	46	267	586
		Expected Count	278.2	48.2	259.6	586.0
	Pillow stones	Count	27	6	13	46
		Expected Count	21.8	3.8	20.4	46.0
Total		Count	300	52	280	632
		Expected Count	300.0	52.0	280.0	632.0

Table VI.181: Cross-tabulation between pillow stones and cemetery area at St Peter's Barton-on-Humber

Chi-Square Tests - St Peter's Barton-on-Humber						
	Value	df	Asymp. Sig. (2-sided)	Monte Carlo Sig. (2-sided)		
				Sig.	99% Confidence Interval	
					Lower Bound	Upper Bound
Pearson Chi-Square	5.598(a)	2	.061	.060(b)	.054	.066
N of Valid Cases	632					
a 1 cells (16.7%) have expected count less than 5. The minimum expected count is 3.78.						
b Based on 10000 sampled tables with starting seed 1202249309.						

Table VI.182: Chi-square test between pillow stones and cemetery area at St Peter's Barton-on-Humber

Wands? * Distance from Church Cross-tabulation - St Peter's Barton-on-Humber							
			Distance from Church				Total
			Under or inside church	<5m	<10m	<15m	
Wands?	No Wand	Count	37	306	212	73	628
		Expected Count	36.4	304.2	214.6	72.8	628.0
	Wand Present	Count	0	3	6	1	10
		Expected Count	.6	4.8	3.4	1.2	10.0
Total		Count	37	309	218	74	638
		Expected Count	37.0	309.0	218.0	74.0	638.0

Table VI.183: Cross-tabulation between wand burials and cemetery zone (distance from church) at St Peter's Barton-on-Humber

Chi-Square Tests - St Peter's Barton-on-Humber						
	Value	df	Asymp. Sig. (2-sided)	Monte Carlo Sig. (2-sided)		
				Sig.	99% Confidence Interval	
					Lower Bound	Upper Bound
Pearson Chi-Square	3.308(a)	3	.347	.343(b)	.331	.356
N of Valid Cases	638					

a 4 cells (50.0%) have expected count less than 5. The minimum expected count is .58.

b Based on 10000 sampled tables with starting seed 826030962.

Table VI.184: Chi-square test between wand burials and cemetery zone (distance from church) at St Peter's Barton-on-Humber

Wands? * Cemetery Quadrant Cross-tabulation - St Peter's Barton-on-Humber																		
			Cemetery Quadrant														Total	
			1	2	3	4	5	6	7	8	9	10	11	12	13	14		
Wands?	No Wand	Count	18	107	54	87	31	9	35	2	5	18	97	66	83	16	628	
		Expected Count	17.7	105.3	53.2	90.6	35.4	8.9	34.5	2.0	4.9	17.7	95.5	65.0	81.7	15.7	628.0	
	Wand Present	Count	0	0	0	5	5	0	0	0	0	0	0	0	0	0	0	10
		Expected Count	.3	1.7	.8	1.4	.6	.1	.5	.0	.1	.3	1.5	1.0	1.3	.3	10.0	
Total		Count	18	107	54	92	36	9	35	2	5	18	97	66	83	16	638	
		Expected Count	18.0	107.0	54.0	92.0	36.0	9.0	35.0	2.0	5.0	18.0	97.0	66.0	83.0	16.0	638.0	

Table VI.185: Cross-tabulation between wand burials and cemetery quadrant at St Peter's Barton-on-Humber

Chi-Square Tests - St Peter's Barton-on-Humber						
	Value	df	Asymp. Sig. (2-sided)	Monte Carlo Sig. (2-sided)		
				Sig.	99% Confidence Interval	
					Lower Bound	Upper Bound
Pearson Chi-Square	52.465(a)	13	.000	.004(b)	.002	.006
N of Valid Cases	638					
a 16 cells (57.1%) have expected count less than 5. The minimum expected count is .03.						
b Based on 10000 sampled tables with starting seed 1407001299.						

Table VI.186: Chi-square test between wand burials and cemetery quadrant at St Peter's Barton-on-Humber

Wands? * Cemetery Area Cross-tabulation - St Peter's Barton-on-Humber						
			Cemetery Area			Total
			North of church	Under/E/W of church	South of church	
Wands?	No Wand	Count	296	52	280	628
		Expected Count	301.2	51.2	275.6	628.0
	Wand Present	Count	10	0	0	10
		Expected Count	4.8	.8	4.4	10.0
Total		Count	306	52	280	638
		Expected Count	306.0	52.0	280.0	638.0

Table VI.187: Cross-tabulation between wand burials and cemetery area at St Peter's Barton-on-Humber

Chi-Square Tests - St Peter's Barton-on-Humber						
	Value	df	Asymp. Sig. (2-sided)	Monte Carlo Sig. (2-sided)		
				Sig.	99% Confidence Interval	
					Lower Bound	Upper Bound
Pearson Chi-Square	11.022(a)	2	.004	.007(b)	.005	.009
N of Valid Cases	638					
a 3 cells (50.0%) have expected count less than 5. The minimum expected count is .82.						
b Based on 10000 sampled tables with starting seed 881643176.						

Table VI.188: Chi-square test between wand burials and cemetery area at St Peter's Barton-on-Humber

Sex confident * Cemetery Quadrant Cross-tabulation - St Peter's Barton-on-Humber																	
			Cemetery Quadrant														Total
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	
Sex confident	Female	Count	3	25	13	27	9	1	7	0	0	2	24	14	28	5	158
		Expected Count	3.5	26.8	13.0	24.2	12.1	.9	9.5	.4	1.3	5.2	22.4	14.2	21.6	3.0	158.0
	Male	Count	5	37	17	29	19	1	15	1	3	10	28	19	22	2	208
		Expected Count	4.5	35.2	17.0	31.8	15.9	1.1	12.5	.6	1.7	6.8	29.6	18.8	28.4	4.0	208.0
Total		Count	8	62	30	56	28	2	22	1	3	12	52	33	50	7	366
		Expected Count	8.0	62.0	30.0	56.0	28.0	2.0	22.0	1.0	3.0	12.0	52.0	33.0	50.0	7.0	366.0

Table VI.189: Cross-tabulation between sex and cemetery quadrant at St Peter's Barton-on-Humber

Chi-Square Tests - St Peter's Barton-on-Humber						
	Value	df	Asymp. Sig. (2-sided)	Monte Carlo Sig. (2-sided)		
				Sig.	99% Confidence Interval	
					Lower Bound	Upper Bound
Pearson Chi-Square	15.776(a)	13	.261	.249(b)	.238	.260
N of Valid Cases	366					

a 10 cells (35.7%) have expected count less than 5. The minimum expected count is .43.

b Based on 10000 sampled tables with starting seed 83193016.

Table VI.190: Chi-square test between sex and cemetery quadrant at St Peter's Barton-on-Humber

Sex confident * Cemetery Area Cross-tabulation - St Peter's Barton-on-Humber						
			Cemetery Area			Total
			North of church	Under/E/W of church	South of church	
Sex confident	Female	Count	76	9	73	158
		Expected Count	79.0	12.5	66.5	158.0
	Male	Count	107	20	81	208
		Expected Count	104.0	16.5	87.5	208.0
Total		Count	183	29	154	366
		Expected Count	183.0	29.0	154.0	366.0

Table VI.191: Cross-tabulation between sex and cemetery area at St Peter's Barton-on-Humber

Chi-Square Tests - St Peter's Barton-on-Humber						
	Value	df	Asymp. Sig. (2-sided)	Monte Carlo Sig. (2-sided)		
				Sig.	99% Confidence Interval	
					Lower Bound	Upper Bound
Pearson Chi-Square	3.066(a)	2	.216	.230(b)	.219	.241
N of Valid Cases	366					
a 0 cells (.0%) have expected count less than 5. The minimum expected count is 12.52.						
b Based on 10000 sampled tables with starting seed 1143207290.						

Table VI.192: Chi-square test between sex and cemetery area at St Peter's Barton-on-Humber

Sex confident * Cemetery Area Cross-tabulation - St Peter's Barton-on-Humber						
			Cemetery Area			Total
			North of church	Under/E/W of church	South of church	
Sex confident	Female	Count	76	9	73	158
		Expected Count	79.0	12.5	66.5	158.0
	Male	Count	107	20	81	208
		Expected Count	104.0	16.5	87.5	208.0
Total		Count	183	29	154	366
		Expected Count	183.0	29.0	154.0	366.0

Table VI.193: Cross-tabulation between sex and cemetery zone (distance from church) at St Peter's Barton-on-Humber

Chi-Square Tests - St Peter's Barton-on-Humber						
	Value	df	Asymp. Sig. (2-sided)	Monte Carlo Sig. (2-sided)		
				Sig.	99% Confidence Interval	
					Lower Bound	Upper Bound
Pearson Chi-Square	3.066(a)	2	.216	.230(b)	.219	.241
N of Valid Cases	366					
a 0 cells (.0%) have expected count less than 5. The minimum expected count is 12.52.						
b Based on 10000 sampled tables with starting seed 1143207290.						

Table VI.194: Chi-square test between sex and cemetery zone (distance from church) at St Peter's Barton-on-Humber

Ranks - St Peter's Barton-on-Humber			
	Cemetery Quadrant	N	Mean Rank
Age	1	12	227.04
	2	74	252.45
	3	43	215.92
	4	74	223.60
	5	30	309.15
	6	4	181.25
	7	23	196.93
	9	3	309.17
	10	15	242.30
	11	73	206.33
	12	45	186.09
	13	52	263.08
	14	13	234.38
	Total	461	

Table VI.195: Mean ranks for age and cemetery quadrant at St Peter's Barton-on-Humber

Test Statistics (a, b) - St Peter's Barton-on-Humber	
	Age
Chi-Square	28.641
df	12
Asymp. Sig.	.004
a Kruskal-Wallis Test	
b Grouping Variable: Cemetery Quadrant	

Table VI.196: Kruskal-Wallis test between age and cemetery quadrant at St Peter's Barton-on-Humber

Ranks - St Peter's Barton-on-Humber			
	Distance from Church	N	Mean Rank
Age	under or inside church	23	196.93
	<5m	232	218.36
	<10m	152	251.16
	<15m	54	243.07
	Total	461	

Table VI.197: Mean ranks for age and cemetery zone (distance from church) at St Peter's Barton-on-Humber

Test Statistics (a, b) - St Peter's Barton-on-Humber	
	Age
Chi-Square	8.014
df	3
Asymp. Sig.	.046
a Kruskal-Wallis Test	
b Grouping Variable: Distance from Church	

Table VI.198: Kruskal-Wallis test between age and cemetery zone (distance from church) at St Peter's Barton-on-Humber

Ranks - St Peter's Barton-on-Humber			
	Cemetery Area	N	Mean Rank
Age	North of church	232	241.87
	Under/E/W of church	31	212.24
	South of church	198	221.20
	Total	461	

Table VI.199: Mean ranks for age and cemetery area at St Peter's Barton-on-Humber

Test Statistics (a, b) - St Peter's Barton-on-Humber	
	Age
Chi-Square	3.443
df	2
Asymp. Sig.	.179
a Kruskal-Wallis Test	
b Grouping Variable: Cemetery Area	

Table VI.200: Kruskal-Wallis test between age and cemetery area at St Peter's Barton-on-Humber

Grave type less confident * Cemetery Area Cross-tabulation - St Mark's Lincoln VIII						
			Cemetery Area			Total
			1	3	4	
Grave type less confident	Plain earth	Count	10	24	23	57
		Expected Count	8.4	24.3	24.3	57.0
	Coffin	Count	1	7	9	17
		Expected Count	2.5	7.3	7.3	17.0
	Lined	Count	0	1	0	1
		Expected Count	.1	.4	.4	1.0
Total		Count	11	32	32	75
		Expected Count	11.0	32.0	32.0	75.0

Table VI.201: Cross-tabulation between grave type and cemetery area at St Mark's Lincoln Phase VIII

Chi-Square Tests - St Mark's Lincoln VIII						
	Value	df	Asymp. Sig. (2-sided)	Monte Carlo Sig. (2-sided)		
				Sig.	99% Confidence Interval	
					Lower Bound	Upper Bound
Pearson Chi-Square	3.065(a)	4	.547	.534(b)	.521	.547
N of Valid Cases	75					
a 4 cells (44.4%) have expected count less than 5. The minimum expected count is .15.						
b Based on 10000 sampled tables with starting seed 475497203.						

Table VI.202: Chi-square test between grave type and cemetery area at St Mark's Lincoln Phase VIII

Charcoal burial * Cemetery Area Cross-tabulation - St Mark's Lincoln VIII						
			Cemetery Area			Total
			1	3	4	
Charcoal burial	No Charcoal	Count	11	30	29	70
		Expected Count	10.3	29.9	29.9	70.0
	Charcoal burial	Count	0	2	3	5
		Expected Count	.7	2.1	2.1	5.0
Total		Count	11	32	32	75
		Expected Count	11.0	32.0	32.0	75.0

Table VI.203: Cross-tabulation between charcoal burials and cemetery area at St Mark's Lincoln Phase VIII

Chi-Square Tests - St Mark's Lincoln						
	Value	df	Asymp. Sig. (2-sided)	Monte Carlo Sig. (2-sided)		
				Sig.	99% Confidence Interval	
					Lower Bound	Upper Bound
Pearson Chi-Square	1.172(a)	2	.557	.648(b)	.635	.660
N of Valid Cases	75					
a 3 cells (50.0%) have expected count less than 5. The minimum expected count is .73.						
b Based on 10000 sampled tables with starting seed 1110856691.						

Table VI.204: Chi-square test between charcoal burials and cemetery area at St Mark's Lincoln Phase VIII

Sex confident * Cemetery Area Cross-tabulation - St Mark's Lincoln VIII						
			Cemetery Area			Total
			1	3	4	
Sex confident	Female	Count	0	4	10	14
		Expected Count	1.8	5.3	7.0	14.0
	Male	Count	5	11	10	26
		Expected Count	3.3	9.8	13.0	26.0
Total		Count	5	15	20	40
		Expected Count	5.0	15.0	20.0	40.0

Table VI.205: Cross-tabulation between sex and cemetery area at St Mark's Lincoln Phase VIII

Chi-Square Tests - St Mark's Lincoln VIII						
	Value	df	Asymp. Sig. (2-sided)	Monte Carlo Sig. (2-sided)		
				Sig.	99% Confidence Interval	
					Lower Bound	Upper Bound
Pearson Chi-Square	5.128(a)	2	.077	.105(b)	.097	.113
N of Valid Cases	40					
a 2 cells (33.3%) have expected count less than 5. The minimum expected count is 1.75.						
b Based on 10000 sampled tables with starting seed 1507486128.						

Table VI.206: Chi-square test between sex and cemetery area at St Mark's Lincoln Phase VIII

Ranks - St Mark's Lincoln VIII			
	Cemetery Area	N	Mean Rank
Age	1	9	27.94
	3	24	25.33
	4	22	30.93
	Total	55	

Table VI.207: Mean ranks for age and cemetery area at St Mark's Lincoln Phase VIII

Test Statistics (a, b) - St Mark's Lincoln VIII	
	Age
Chi-Square	1.669
df	2
Asymp. Sig.	.434
a Kruskal-Wallis Test	
b Grouping Variable: Cemetery Area	

Table VI.208: Kruskal-Wallis test between age and cemetery area at St Mark's Lincoln Phase VIII

Grave type less confident * Cemetery Area Cross-tabulation - St Mark's Lincoln IX						
			Cemetery Area			Total
			1	2	4	
Grave type less confident	Plain earth	Count	12	1	31	44
		Expected Count	12.3	2.6	29.0	44.0
	Coffin	Count	2	1	2	5
		Expected Count	1.4	.3	3.3	5.0
	Lined	Count	0	1	0	1
		Expected Count	.3	.1	.7	1.0
Total	Count	14	3	33	50	
	Expected Count	14.0	3.0	33.0	50.0	

Table VI.209: Cross-tabulation between grave type and cemetery area at St Mark's Lincoln Phase IX

Chi-Square Tests - St Mark's Lincoln IX						
	Value	df	Asymp. Sig. (2-sided)	Monte Carlo Sig. (2-sided)		
				Sig.	99% Confidence Interval	
					Lower Bound	Upper Bound
Pearson Chi-Square	19.229(a)	4	.001	.008(b)	.006	.011
N of Valid Cases	50					
a 7 cells (77.8%) have expected count less than 5. The minimum expected count is .06.						
b Based on 10000 sampled tables with starting seed 1131884899.						

Table VI.210: Chi-square test between grave type and cemetery area at St Mark's Lincoln Phase IX

Marker? * Cemetery Area Cross-tabulation - St Mark's Lincoln IX						
			Cemetery Area			Total
			1	2	4	
Marker?	No Marker	Count	14	3	27	44
		Expected Count	12.3	2.6	29.0	44.0
	Marker	Count	0	0	6	6
		Expected Count	1.7	.4	4.0	6.0
Total		Count	14	3	33	50
		Expected Count	14.0	3.0	33.0	50.0

Table VI.211: Cross-tabulation between presence of grave markers and cemetery area at St Mark's Lincoln Phase IX

Chi-Square Tests - St Mark's Lincoln IX						
	Value	df	Asymp. Sig. (2-sided)	Monte Carlo Sig. (2-sided)		
				Sig.	99% Confidence Interval	
					Lower Bound	Upper Bound
Pearson Chi-Square	3.512(a)	2	.173	.229(b)	.218	.240
N of Valid Cases	50					
a 4 cells (66.7%) have expected count less than 5. The minimum expected count is .36.						
b Based on 10000 sampled tables with starting seed 1831435319.						

Table VI.212: Chi-square test between presence of grave markers and cemetery area at St Mark's Lincoln Phase IX

Sex confident * Cemetery Area Cross-tabulation - St Mark's Lincoln IX						
			Cemetery Area			Total
			1	2	4	
Sex confident	Female	Count	2	1	15	18
		Expected Count	3.9	.6	13.5	18.0
	Male	Count	5	0	9	14
		Expected Count	3.1	.4	10.5	14.0
Total		Count	7	1	24	32
		Expected Count	7.0	1.0	24.0	32.0

Table VI.213: Cross-tabulation between sex and cemetery area at St Mark's Lincoln Phase IX

Chi-Square Tests - St Mark's Lincoln IX						
	Value	df	Asymp. Sig. (2-sided)	Monte Carlo Sig. (2-sided)		
				Sig.	99% Confidence Interval	
					Lower Bound	Upper Bound
Pearson Chi-Square	3.338(a)	2	.188	.196(b)	.186	.207
N of Valid Cases	32					

a 4 cells (66.7%) have expected count less than 5. The minimum expected count is .44.

b Based on 10000 sampled tables with starting seed 605580418.

Table VI.214: Chi-square test between sex and cemetery area at St Mark's Lincoln Phase IX

Ranks - St Mark's Lincoln IX			
	Cemetery Area	N	Mean Rank
Age	1	9	13.89
	2	3	12.17
	4	23	20.37
	Total	35	

Table VI.215: Mean ranks for age and cemetery area at St Mark's Lincoln Phase IX

Test Statistics (a, b) - St Mark's Lincoln IX	
	Age
Chi-Square	4.321
df	2
Asymp. Sig.	.115
a Kruskal-Wallis Test	
b Grouping Variable: Cemetery Area	

Table VI.216: Kruskal-Wallis test between age and cemetery area at St Mark's Lincoln Phase IX

Grave type less confident * Cemetery Area Cross-tabulation - St Mark's Lincoln							
			Cemetery Area				Total
			1	2	3	4	
Grave type less confident	Plain earth	Count	22	1	24	54	101
		Expected Count	20.2	2.4	25.9	52.5	101.0
	Coffin	Count	3	1	7	11	22
		Expected Count	4.4	.5	5.6	11.4	22.0
	Lined	Count	0	1	1	0	2
		Expected Count	.4	.0	.5	1.0	2.0
Total		Count	25	3	32	65	125
		Expected Count	25.0	3.0	32.0	65.0	125.0

Table VI.217: Cross-tabulation between grave type and cemetery area at St Mark's Lincoln Phases VIII and IX

Chi-Square Tests - St Mark's Lincoln						
	Value	df	Asymp. Sig. (2-sided)	Monte Carlo Sig. (2-sided)		
				Sig.	99% Confidence Interval	
					Lower Bound	Upper Bound
Pearson Chi-Square	23.175(a)	6	.001	.020(b)	.016	.023
N of Valid Cases	125					
a 7 cells (58.3%) have expected count less than 5. The minimum expected count is .05.						
b Based on 10000 sampled tables with starting seed 1993510611.						

Table VI.218: Chi-square test between grave type and cemetery area at St Mark's Lincoln Phases VIII and IX

Charcoal burial * Cemetery Area Cross-tabulation - St Mark's Lincoln							
			Cemetery Area				Total
			1	2	3	4	
Charcoal burial	No Charcoal	Count	25	3	30	62	120
		Expected Count	24.0	2.9	30.7	62.4	120.0
	Charcoal burial	Count	0	0	2	3	5
		Expected Count	1.0	.1	1.3	2.6	5.0
Total		Count	25	3	32	65	125
		Expected Count	25.0	3.0	32.0	65.0	125.0

Table VI.219: Cross-tabulation between charcoal burials and cemetery area at St Mark's Lincoln Phases VIII and IX

Chi-Square Tests - St Mark's Lincoln						
	Value	df	Asymp. Sig. (2-sided)	Monte Carlo Sig. (2-sided)		
				Sig.	99% Confidence Interval	
					Lower Bound	Upper Bound
Pearson Chi-Square	1.653(a)	3	.648	.656(b)	.644	.668
N of Valid Cases	125					
a 5 cells (62.5%) have expected count less than 5. The minimum expected count is .12.						
b Based on 10000 sampled tables with starting seed 2000000.						

Table VI.220: Chi-square test between charcoal burials and cemetery area at St Mark's Lincoln Phases VIII and IX

Marker? * Cemetery Area Cross-tabulation - St Mark's Lincoln							
			Cemetery Area				Total
			1	2	3	4	
Marker?	No Marker	Count	25	3	32	59	119
		Expected Count	23.8	2.9	30.5	61.9	119.0
	Marker	Count	0	0	0	6	6
		Expected Count	1.2	.1	1.5	3.1	6.0
Total		Count	25	3	32	65	125
		Expected Count	25.0	3.0	32.0	65.0	125.0

Table VI.221: Cross-tabulation between grave markers and cemetery area at St Mark's Lincoln Phases VIII and IX

Chi-Square Tests - St Mark's Lincoln						
	Value	df	Asymp. Sig. (2-sided)	Monte Carlo Sig. (2-sided)		
				Sig.	99% Confidence Interval	
					Lower Bound	Upper Bound
Pearson Chi-Square	5.818(a)	3	.121	.181(b)	.171	.191
N of Valid Cases	125					
a 5 cells (62.5%) have expected count less than 5. The minimum expected count is .14.						
b Based on 10000 sampled tables with starting seed 624387341.						

Table VI.222: Chi-square test between grave markers and cemetery area at St Mark's Lincoln Phases VIII and IX

Sex confident * Cemetery Area Cross-tabulation - St Mark's Lincoln							
			Cemetery Area				Total
			1	2	3	4	
Sex confident	Female	Count	2	1	4	25	32
		Expected Count	5.3	.4	6.7	19.6	32.0
	Male	Count	10	0	11	19	40
		Expected Count	6.7	.6	8.3	24.4	40.0
Total		Count	12	1	15	44	72
		Expected Count	12.0	1.0	15.0	44.0	72.0

Table VI.223: Cross-tabulation between sex and cemetery area at St Mark's Lincoln Phases VIII and IX

Chi-Square Tests - St Mark's Lincoln						
	Value	df	Asymp. Sig. (2-sided)	Monte Carlo Sig. (2-sided)		
				Sig.	99% Confidence Interval	
					Lower Bound	Upper Bound
Pearson Chi-Square	9.648(a)	3	.022	.013(b)	.010	.016
N of Valid Cases	72					
a 2 cells (25.0%) have expected count less than 5. The minimum expected count is .44.						
b Based on 10000 sampled tables with starting seed 92208573.						

Table VI.224: Chi-square test between sex and cemetery area at St Mark's Lincoln Phases VIII and IX

Ranks - St Mark's Lincoln			
	Cemetery Area	N	Mean Rank
Age	1	18	40.44
	2	3	32.83
	3	24	39.38
	4	45	51.63
	Total	90	

Table VI.225: Mean ranks for age and cemetery area at St Mark's Lincoln Phases VIII and IX

Test Statistics (a, b) - St Mark's Lincoln	
	Age
Chi-Square	6.064
df	3
Asymp. Sig.	.109
a Kruskal-Wallis Test	
b Grouping Variable: Cemetery Area	

Table VI.226: Kruskal-Wallis test between age and cemetery area at St Mark's Lincoln Phases VIII and IX

Appendix VII: Statistical Tables for Chapter 7

Left cribra * Right cribra Cross-tabulation - Swinegate				
		Right cribra		Total
		Cribr a absent	Cribr a present	
Left cribr a	Cribr a absent	21		21
	Cribr a present		11	11
Total		21	11	32

Table VII.1: Cross-tabulation for cribra orbitalia on right and left sides at Swinegate

Chi-Square Tests - Swinegate					
	Value	df	Asymp. Sig. (2-sided)	Exact Sig. (2-sided)	Exact Sig. (1-sided)
Pearson Chi-Square	32.000(b)	1	.000	.000	.000
N of Valid Cases	32				

b 1 cells (25.0%) have expected count less than 5. The minimum expected count is 3.78.

Table VII.2: Chi-squared test for cribra orbitalia on left and right sides at Swinegate

Left cribra * Right cribra Cross-tabulation - Barrow-on-Humber				
		Right cribra		Total
		Cribr a absent	Cribr a present	
Left cribr a	Cribr a absent	12		12
	Cribr a present	1	20	21
Total		13	20	33

Table VII.3: Cross-tabulation for cribra orbitalia on right and left sides at Barrow-on-Humber

Chi-Square Tests - Barrow-on-Humber					
	Value	df	Asymp. Sig. (2-sided)	Exact Sig. (2-sided)	Exact Sig. (1-sided)
Pearson Chi-Square	29.011(a)	1	.000	.000	.000
N of Valid Cases	33				

a 1 cells (25.0%) have expected count less than 5. The minimum expected count is 4.73.

Table VII.4: Chi-squared test for cribra orbitalia on left and right sides at Barrow-on-Humber

Left cribra * Right cribra Cross-tabulation - Both cemeteries				
		Right cribra		Total
		Cribr a absent	Cribr a present	
Left cribr a	Cribr a absent	33		33
	Cribr a present	1	31	32
Total		34	31	65

Table VII.5: Cross-tabulation for cribra orbitalia on right and left sides at both cemeteries

Chi-Square Tests - Both cemeteries					
	Value	df	Asymp. Sig. (2-sided)	Exact Sig. (2-sided)	Exact Sig. (1-sided)
Pearson Chi-Square	61.117(a)	1	.000	.000	.000
N of Valid Cases	65				

a 0 cells (.0%) have expected count less than 5. The minimum expected count is 15.26.

Table VII.6: Chi-squared test for cribra orbitalia on left and right sides at both cemeteries

Elaborate? * Cribr a Cross-tabulation - Swinegate					
		Cribr a		Total	
		Cribr a absent	Cribr a present		
Elaborate?	Plain earth	Count	8	9	17
		% within Elaborate?	47.1%	52.9%	100.0%
	Elaborate	Count	15	11	26
		% within Elaborate?	57.7%	42.3%	100.0%
Total		Count	23	20	43
		% within Elaborate?	53.5%	46.5%	100.0%

Table VII.7: Cross-tabulation for cribra orbitalia in plain and elaborate graves at Swinegate

Chi-Square Tests - Swinegate					
	Value	df	Asymp. Sig. (2-sided)	Exact Sig. (2-sided)	Exact Sig. (1-sided)
Pearson Chi-Square	.467(a)	1	.494	.545	.355
N of Valid Cases	43				

a 0 cells (.0%) have expected count less than 5. The minimum expected count is 7.91.

Table VII.8: Chi-squared test for cribra orbitalia in plain and elaborate graves at Swinegate

Elaborate? * Cribra Cross-tabulation - Barrow-on-Humber					
			Cribra		Total
			Cribra absent	Cribra present	
Elaborate?	Plain earth	Count	16	18	34
		% within Elaborate?	47.1%	52.9%	100.0%
	Elaborate	Count	1	5	6
		% within Elaborate?	16.7%	83.3%	100.0%
Total		Count	17	23	40
		% within Elaborate?	42.5%	57.5%	100.0%

Table VII.9: Cross-tabulation for cribra orbitalia in plain and elaborate graves at Barrow-on-Humber

Chi-Square Tests - Barrow-on-Humber					
	Value	df	Asymp. Sig. (2-sided)	Exact Sig. (2-sided)	Exact Sig. (1-sided)
Pearson Chi-Square	1.928(a)	1	.165	.216	.175
N of Valid Cases	40				

a 2 cells (50.0%) have expected count less than 5. The minimum expected count is 2.55.

Table VII.10: Chi-squared test for cribra orbitalia in plain and elaborate graves at Barrow-on-Humber

Elaborate? * Cribra Cross-tabulation - Both cemeteries					
			Cribra		Total
			Cribra absent	Cribra present	
Elaborate?	Plain earth	Count	24	27	51
		% within Elaborate?	47.1%	52.9%	100.0%
	Elaborate	Count	16	16	32
		% within Elaborate?	50.0%	50.0%	100.0%
Total		Count	40	43	83
		% within Elaborate?	48.2%	51.8%	100.0%

Table VII.11: Cross-tabulation for cribra orbitalia in plain and elaborate graves at both cemeteries

Chi-Square Tests - Both cemeteries					
	Value	df	Asymp. Sig. (2-sided)	Exact Sig. (2-sided)	Exact Sig. (1-sided)
Pearson Chi-Square	.068(a)	1	.794	.825	.486
N of Valid Cases	83				

a 0 cells (.0%) have expected count less than 5. The minimum expected count is 15.42.

Table VII.12: Chi-squared test for cribra orbitalia in plain and elaborate graves at both cemeteries

Right tibia periostitis * Left tibia periostitis Cross-tabulation - Swinegate				
		Left tibia periostitis		Total
		No periostitis	Periostitis present	
Right tibia periostitis	No periostitis	26		26
	Periostitis present	1	3	4
Total		27	3	30

Table VII.13: Cross-tabulation for periosteal reactions on right and left tibiae at Swinegate

Chi-Square Tests - Swinegate					
	Value	df	Asymp. Sig. (2-sided)	Exact Sig. (2-sided)	Exact Sig. (1-sided)
Pearson Chi-Square	21.667(a)	1	.000		
N of Valid Cases	30				

a 3 cells (75.0%) have expected count less than 5. The minimum expected count is .40.

Table VII.14: Chi-squared test for periosteal reactions on left and right tibiae at Swinegate

Right tibia periostitis * Left tibia periostitis Cross-tabulation - Barrow-on-Humber				
		Left tibia periostitis		Total
		No periostitis	Periostitis present	
Right tibia periostitis	No periostitis	21	1	22
	Periostitis present	0	0	0
Total		21	1	22

Table VII.15: Cross-tabulation for periosteal reactions on right and left tibiae at Barrow-on-Humber

Note that chi-squared could not be calculated in this instance, as none of the right tibiae had periostitis present.

Right tibia periostitis * Left tibia periostitis Cross-tabulation - Both cemeteries				
		Left tibia periostitis		Total
		No periostitis	Periostitis present	
Right tibia periostitis	No periostitis	47	1	48
	Periostitis present	1	3	4
Total		48	4	52

Table VII.16: Cross-tabulation for periosteal reactions on right and left tibiae at both cemeteries

Chi-Square Tests - Both cemeteries					
	Value	df	Asymp. Sig. (2-sided)	Exact Sig. (2-sided)	Exact Sig. (1-sided)
Pearson Chi-Square	27.648(a)	1	.000		
N of Valid Cases	52				

a 3 cells (75.0%) have expected count less than 5. The minimum expected count is .31.

Table VII.17: Chi-squared test for periosteal reactions on left and right tibiae at both cemeteries

Tibia periostitis * Elaborate? Cross-tabulation - Swinegate					
			Elaborate?		Total
			Plain earth	Elaborate	
Tibia periostitis	No periosteal reaction	Count	15	16	31
		% within Elaborate?	78.9%	84.2%	81.6%
	Periosteal reaction	Count	4	3	7
		% within Elaborate?	21.1%	15.8%	18.4%
Total		Count	19	19	38
		% within Elaborate?	100.0%	100.0%	100.0%

Table VII.18: Cross-tabulation for periosteal reactions in plain and elaborate graves at Swinegate

Chi-Square Tests - Swinegate					
	Value	df	Asymp. Sig. (2-sided)	Exact Sig. (2-sided)	Exact Sig. (1-sided)
Pearson Chi-Square	.175(a)	1	.676		
N of Valid Cases	38				

a 2 cells (50.0%) have expected count less than 5. The minimum expected count is 3.50.

Table VII.19: Chi-squared test for periosteal reactions in plain and elaborate graves at Swinegate

Right tibia periostitis * Elaborate? Cross-tabulation - Barrow-on-Humber					
			Elaborate?		Total
			Plain earth	Elaborate	
Right tibia periostitis	No periostitis	Count	26	1	27
		% within Elaborate?	96.3%	100.0%	96.4%
	Periostitis present	Count	1		1
		% within Elaborate?	3.7%		3.6%
Total	Count		27	1	28
	% within Elaborate?		100.0%	100.0%	100.0%

Table VII.20: Cross-tabulation for periosteal reactions (right tibia) in plain and elaborate graves at Barrow-on-Humber

Chi-Square Tests - Barrow-on-Humber					
	Value	df	Asymp. Sig. (2-sided)	Exact Sig. (2-sided)	Exact Sig. (1-sided)
Pearson Chi-Square	.038(a)	1	.845	1.000	.964
N of Valid Cases	28				

a 3 cells (75.0%) have expected count less than 5. The minimum expected count is .04.

Table VII.21: Chi-squared test for periosteal reactions (right tibia) in plain and elaborate graves at Barrow-on-Humber

Left tibia periostitis * Elaborate? Cross-tabulation - Barrow-on-Humber					
			Elaborate?		Total
			Plain earth	Elaborate	
Left tibia periostitis	No periostitis	Count	23	1	24
		% within Elaborate?	92.0%	100.0%	92.3%
	Periostitis present	Count	2		2
		% within Elaborate?	8.0%		7.7%
Total	Count		25	1	26
	% within Elaborate?		100.0%	100.0%	100.0%

Table VII.22: Cross-tabulation for periosteal reactions (left tibia) in plain and elaborate graves at Barrow-on-Humber

Chi-Square Tests - Barrow-on-Humber					
	Value	df	Asymp. Sig. (2-sided)	Exact Sig. (2-sided)	Exact Sig. (1-sided)
Pearson Chi-Square	.087(a)	1	.768	1.000	.923
N of Valid Cases	26				

a 3 cells (75.0%) have expected count less than 5. The minimum expected count is .08.

Table VII.23: Chi-squared test for periosteal reactions (left tibia) in plain and elaborate graves at Barrow-on-Humber

Tibia periostitis * Elaborate? Cross-tabulation - Both cemeteries					
			Elaborate?		Total
			Plain earth	Elaborate	
Tibia periostitis	No periosteal reaction	Count	43	17	60
		% within Elaborate?	86.0%	85.0%	85.7%
	Periosteal reaction	Count	7	3	10
		% within Elaborate?	14.0%	15.0%	14.3%
Total	Count	50	20	70	
	% within Elaborate?	100.0%	100.0%	100.0%	

Table VII.24: Cross-tabulation for periosteal reactions in plain and elaborate graves at both cemeteries

Chi-Square Tests - Both cemeteries					
	Value	df	Asymp. Sig. (2-sided)	Exact Sig. (2-sided)	Exact Sig. (1-sided)
Pearson Chi-Square	.012(a)	1	.914		
N of Valid Cases	70				

a 1 cells (25.0%) have expected count less than 5. The minimum expected count is 2.86.

Table VII.25: Chi-squared test for periosteal reactions in plain and elaborate graves at both cemeteries

Right canine EH * Left canine EH Cross-tabulation - Swinegate				
		Left canine EH		Total
		No enamel hypoplasia	Enamel hypoplasia	
Right canine EH	No enamel hypoplasia	14		14
	Enamel hypoplasia	1	7	8
Total		15	7	22

Table VII.26: Cross-tabulation for enamel hypoplasia on right and left lower canines at Swinegate

Chi-Square Tests - Swinegate					
	Value	df	Asymp. Sig. (2-sided)	Exact Sig. (2-sided)	Exact Sig. (1-sided)
Pearson Chi-Square	17.967(a)	1	.000		
N of Valid Cases	22				

a 2 cells (50.0%) have expected count less than 5. The minimum expected count is 2.55.

Table VII.27: Chi-squared test for enamel hypoplasia on left and right lower canines at Swinegate

Right canine EH * Left canine EH Cross-tabulation - Barrow-on-Humber				
		Left canine EH		Total
		No enamel hypoplasia	Enamel hypoplasia	
Right canine EH	No enamel hypoplasia	3		3
	Enamel hypoplasia		9	9
Total		3	9	12

Table VII.28: Cross-tabulation for enamel hypoplasia on right and left lower canines at Barrow-on-Humber

Chi-Square Tests - Barrow-on-Humber					
	Value	df	Asymp. Sig. (2-sided)	Exact Sig. (2-sided)	Exact Sig. (1-sided)
Pearson Chi-Square	12.000(a)	1	.001		
N of Valid Cases	12				

a 3 cells (75.0%) have expected count less than 5. The minimum expected count is .75.

Table VII.29: Chi-squared test for enamel hypoplasia on left and right lower canines at Barrow-on-Humber

Right canine EH * Left canine EH Cross-tabulation - Both cemeteries				
		Left canine EH		Total
		No enamel hypoplasia	Enamel hypoplasia	
Right canine EH	No enamel hypoplasia	17		17
	Enamel hypoplasia	1	16	17
Total		18	16	34

Table VII.30: Cross-tabulation for enamel hypoplasia on right and left lower canines at both cemeteries

Chi-Square Tests - Both cemeteries					
	Value	df	Asymp. Sig. (2-sided)	Exact Sig. (2-sided)	Exact Sig. (1-sided)
Pearson Chi-Square	30.222(a)	1	.000		
N of Valid Cases	34				

a 0 cells (.0%) have expected count less than 5. The minimum expected count is 8.00.

Table VII.31: Chi-squared test for enamel hypoplasia on left and right lower canines at both cemeteries

Canine EH * Elaborate? Cross-tabulation - Swinegate					
			Elaborate?		Total
			Plain earth	Elaborate	
Canine EH	No enamel hypoplasia	Count	6	13	19
		% within Elaborate?	50.0%	65.0%	59.4%
	Enamel hypoplasia	Count	6	7	13
		% within Elaborate?	50.0%	35.0%	40.6%
Total		Count	12	20	32
		% within Elaborate?	100.0%	100.0%	100.0%

Table VII.32: Cross-tabulation for enamel hypoplasia in plain and elaborate graves at Swinegate

Chi-Square Tests - Swinegate					
	Value	df	Asymp. Sig. (2-sided)	Exact Sig. (2-sided)	Exact Sig. (1-sided)
Pearson Chi-Square	.700(a)	1	.403		
N of Valid Cases	32				

a 1 cells (25.0%) have expected count less than 5. The minimum expected count is 4.88.

Table VII.33: Chi-squared test for enamel hypoplasia in plain and elaborate graves at Swinegate

Canine EH * Elaborate? Cross-tabulation - Barrow-on-Humber					
			Elaborate?		Total
			Plain earth	Elaborate	
Canine EH	No enamel hypoplasia	Count	11		11
		% within Elaborate?	44.0%		42.3%
	Enamel hypoplasia	Count	14	1	15
		% within Elaborate?	56.0%	100.0%	57.7%
Total		Count	25	1	26
		% within Elaborate?	100.0%	100.0%	100.0%

Table VII.34: Cross-tabulation for enamel hypoplasia in plain and elaborate graves at Barrow-on-Humber

Chi-Square Tests - Barrow-on-Humber					
	Value	df	Asymp. Sig. (2-sided)	Exact Sig. (2-sided)	Exact Sig. (1-sided)
Pearson Chi-Square	.763(a)	1	.382		
N of Valid Cases	26				

a 2 cells (50.0%) have expected count less than 5. The minimum expected count is .42.

Table VII.35: Chi-squared test for enamel hypoplasia in plain and elaborate graves at Barrow-on-Humber

Canine EH * Elaborate? Cross-tabulation - Both cemeteries					
			Elaborate?		Total
			Plain earth	Elaborate	
Canine EH	No enamel hypoplasia	Count	17	13	30
		% within Elaborate?	45.9%	61.9%	51.7%
	Enamel hypoplasia	Count	20	8	28
		% within Elaborate?	54.1%	38.1%	48.3%
Total		Count	37	21	58
		% within Elaborate?	100.0%	100.0%	100.0%

Table VII.36: Cross-tabulation for enamel hypoplasia in plain and elaborate graves at both cemeteries

Chi-Square Tests - Both cemeteries					
	Value	df	Asymp. Sig. (2-sided)	Exact Sig. (2-sided)	Exact Sig. (1-sided)
Pearson Chi-Square	1.366(a)	1	.242		
N of Valid Cases	58				

a 0 cells (.0%) have expected count less than 5. The minimum expected count is 10.14.

Table VII.37: Chi-squared test for enamel hypoplasia in plain and elaborate graves at both cemeteries

Appendix VIII: Statistical Tables for Chapter 8

Grave good group * Sex Cross-tabulation - Castledyke South					
			Sex confident		Total
			Female	Male	
Grave good group	Weapon	Count	0	8	8
		Expected Count	4.4	3.6	8.0
	Jewellery	Count	32	6	38
		Expected Count	20.9	17.1	38.0
	Other Accompanied	Count	14	19	33
		Expected Count	18.1	14.9	33.0
	Unaccompanied	Count	9	12	21
		Expected Count	11.5	9.5	21.0
	Unknown	Count	1	1	2
		Expected Count	1.1	.9	2.0
	Total	Count	56	46	102
		Expected Count	56.0	46.0	102.0

Table VIII.1: Cross-tabulation between grave good group and sex at Castledyke South

Chi-Square Tests - Castledyke South						
	Value	df	Asymp. Sig. (2-sided)	Monte Carlo Sig. (2-sided)		
				Sig.	99% Confidence Interval	
					Lower Bound	Upper Bound
Pearson Chi-Square	26.248(a)	4	.000	.000(b)	.000	.000
N of Valid Cases	102					

a 4 cells (40.0%) have expected count less than 5. The minimum expected count is .90.

b Based on 10000 sampled tables with starting seed 957002199.

Table VIII.2: Chi-square test between sex and grave good type at Castledyke South

Grave good group * Sex Cross-tabulation - Sewerby					
			Sex confident		Total
			Female	Male	
Grave good group	Weapon	Count	0	4	4
		Expected Count	1.7	2.3	4.0
	Jewellery	Count	6	3	9
		Expected Count	3.9	5.1	9.0
	Other Accompanied	Count	3	3	6
		Expected Count	2.6	3.4	6.0
	Unaccompanied	Count	1	3	4
		Expected Count	1.7	2.3	4.0
Total	Count	10	13	23	
	Expected Count	10.0	13.0	23.0	

Table VIII.3: Cross-tabulation between sex and grave good group at Sewerby

Chi-Square Tests - Sewerby						
	Value	df	Asymp. Sig. (2-sided)	Monte Carlo Sig. (2-sided)		
				Sig.	99% Confidence Interval	
					Lower Bound	Upper Bound
Pearson Chi-Square	5.706(a)	3	.127	.131(b)	.122	.140
N of Valid Cases	23					
a 7 cells (87.5%) have expected count less than 5. The minimum expected count is 1.74.						
b Based on 10000 sampled tables with starting seed 92208573.						

Table VIII.4: Chi-square test between sex and grave good group at Sewerby

Grave good group * Sex Cross-tabulation - Both Cemeteries					
			Sex confident		Total
			Female	Male	
Grave good group	Weapon	Count	0	12	12
		Expected Count	6.3	5.7	12.0
	Jewellery	Count	38	9	47
		Expected Count	24.8	22.2	47.0
	Other Accompanied	Count	17	22	39
		Expected Count	20.6	18.4	39.0
	Unaccompanied	Count	10	15	25
		Expected Count	13.2	11.8	25.0
	Unknown	Count	1	1	2
		Expected Count	1.1	.9	2.0
	Total	Count	66	59	125
		Expected Count	66.0	59.0	125.0

Table VIII.5: Cross-tabulation between sex and grave good group at both cemeteries

Chi-Square Tests - Both Cemeteries						
	Value	df	Asymp. Sig. (2-sided)	Monte Carlo Sig. (2-sided)		
				Sig.	99% Confidence Interval	
					Lower Bound	Upper Bound
Pearson Chi-Square	31.241(a)	4	.000	.000(b)	.000	.000
N of Valid Cases	125					

a 2 cells (20.0%) have expected count less than 5. The minimum expected count is .94.

b Based on 10000 sampled tables with starting seed 1993510611.

Table VIII.6: Chi-square test between sex and grave good group at both cemeteries

Ranks - Castledyke South			
	Grave good group	N	Mean Rank
Age	Weapon	11	79.68
	Jewellery	49	84.52
	Other Accompanied	57	75.73
	Unaccompanied	37	70.28
	Total	154	

Table VIII.7: Mean ranks for age and grave good group at Castledyke South

Test Statistics (a, b) - Castledyke South	
	Age
Chi-Square	2.444
df	3
Asymp. Sig.	.485
a Kruskal-Wallis Test	
b Grouping Variable: Grave good group	

Table VIII.8: Kruskal-Wallis test between age and grave good group at Castledyke South

Ranks - Sewerby			
	Grave good group	N	Mean Rank
Age	Weapon	3	26.00
	Jewellery	17	18.35
	Other Accompanied	10	17.10
	Unaccompanied	7	20.29
	Total	37	

Table VIII.9: Mean ranks for age and grave good group at Sewerby

Test Statistics (a, b) - Sewerby	
	Age
Chi-Square	1.944
df	3
Asymp. Sig.	.584
a Kruskal-Wallis Test	
b Grouping Variable: Grave good group	

Table VIII.10: Kruskal-Wallis test between age and grave good group at Sewerby

Ranks - Both Cemeteries			
	Grave good group	N	Mean Rank
Age	Weapon	14	104.96
	Jewellery	66	101.85
	Other Accompanied	67	92.66
	Unaccompanied	44	89.45
	Total	191	

Table VIII.11: Mean ranks for age and grave good group for both cemeteries

Test Statistics (a, b) - Both cemeteries	
	Age
Chi-Square	2.105
df	3
Asymp. Sig.	.551
a Kruskal-Wallis Test	
b Grouping Variable: Grave good group	

Table VIII.12: Kruskal-Wallis test between age and grave good group for both cemeteries