

Cranial Index

Plot	dolichocranial	mesocranial	brachycranial	total
Value of index	x-74.9	75-79.9	80-x	
1			2	2
2	4	5	2	11
8		1		1
11		2		2
16	1	2		3
17	1	9	1	11
22		4		4
28	3			3

Length-height index

Plot	chamaecranial	orthocranial	hypsocranial	total
Value of index	x-69.9	70.0-74.9	75.0-x	
1			1	1
2	1	5	2	8
6			1	1
16	1			1
17	2	7	2	11
22	1	2		3
28		1		1

Palatal index

Plot	leptostaphyline	mesostaphyline	brachystaphyline	total
Value of index	x-79.9	80.0-84.9	85.0-x	
2	1	2	7	10
3	1		1	2
6			3	3
8			1	1
22	3	2	1	6
28	2		2	4

Average cranial module

Plot	value	number measured
1	156.3	2
2	153.0	9
16	154.7	1
17	151.7	11
22	151.8	3
28	144.0	28

Table 4B.27 Metrical indices for individuals in the plots

Skull shape

Plot	long and narrow	oval	pear	round	total
2		20	9	3	32
3	1	6	4		11
10		2			2
11	1	4			5
12			1	1	2
18		3			3

Face shape

Plot	broad	inverted triangle	long and narrow	oval	rectangular	total
2	3	1	2	1		7
3				1		1
10		1				1
11					2	2
12			1			1

Palate Shape

Plot	broad and deep	broad and shallow	broad and medium depth	medium width and deep	medium width and depth	medium width and shallow	narrow and medium depth	narrow and deep	narrow and shallow	total
2	6	6	4	5	1	2	4	11	2	41
3	1		1	1	1		1	7	2	14
10				1						1
11				1	1					2
12				1						1
15								1		1
18								2		2

Chin shape

Plot	pointed	round	square	square and pointed	total
2	2	22	27	5	56
3	4	5	8	5	22
10				1	1
11		2		1	3
12				1	1
15			1		1
18			1	1	2

Table 4B.28 Subjective descriptions of morphology for individuals in the plots.

Left femur

Plot	% that were hyperplatymeric	% that were platymeric	% that were eumeric	total assessed
Value of index	x-74.9	75.0-84.9	85.0-x	
1		66.7	33.3	3
2	2.1	31.9	66.0	94
3		19.2	80.8	26
6	50.0	50.0		2
7	100.0			1
8	25.0	50.0	25.0	4
10			100.0	1
16		58.3	41.7	12
17	18.2	63.6	18.2	22
22	12.5	75.0	12.5	8
23		100.0		1
28	34.8	52.2	13.0	23
29	50.0	50.0		2

Right femur

Plot	% that were hyperplatymeric	% that were platymeric	% that were eumeric	total assessed
Value of index	x-74.9	75.0-84.9	85.0-x	
1		66.7	33.3	3
2	2.1	13.8	84.0	94
3		29.6	70.4	27

5			100.0	1
6	66.7	33.3		3
7		100.0		1
8	33.3	66.7		3
10		100.0		1
11			100.0	1
16	30.0	40.0	30.0	10
17	27.8	61.1	11.1	18
18			100.0	1
19		100.0		1
22		87.5	12.5	8
23			100.0	1
28	12.5	50.0	37.5	24
29	100.0			1

Table 4B.29 Composition of the plots according to the metric index

Left tibia

Plot	% that were hyperplatycnemic	% that were platycnemic	% that were mesocnemic	% that were eurycnemic	total assessed
Value of index	x-54.9	55.0-62.9	63.0-69.9	70.0-x	
1			100.0		1
2		3.0	40.3	56.7	67
3		5.9	11.8	82.3	17
5			100.0		1
6				100.0	2
7			100.0		1
8				100.0	3
10				100.0	2
11				100.0	1
15			100.0		1
16				100.0	9
17			7.7	92.3	13
18				100.0	1
21				100.0	1
22			28.6	71.4	7
28			28.6	71.4	14
29			50.0	50.0	2

Right tibia

Plot	% that were hyperplatycnemic	% that were platycnemic	% that were mesocnemic	% that were eurycnemic	total assessed
Value of index	x-54.9	55.0-62.9	63.0-69.9	70.0-x	
1				100.0	2
2		4.3	23.2	72.5	69
3	5.6		11.1	83.3	18
5				100.0	2
6				100.0	2
7			100.0		1
8				100.0	1
10				100.0	2
11				100.0	1
15			50.0	50.0	2
16			25.0	75.0	4
17			6.7	93.3	16
19			100.0		1
21				100.0	1
22			25.0	75.0	8
28			21.4	78.6	14
29				100.0	2

Table 4B.30 Composition of the plots according to the cnemic index.

parietal notch	1.5	0.8							7.1			
epipteric bone	0.8					3.3			7.1	7.1		
mandibular torus	1.0	1.0										
manubrio-corporal synostosis	1.8						4.2					
sternal aperture							4.2					
os oromiale		0.9									2.5	3.0
suprascapular foramen		0.9						2.9				
septal aperture	3.8	5.0	9.3	10.3		3.1	2.4	4.9			4.7	5.1
third trochanter	20.2	22.9	7.3	10.4	3.1	2.9	2.4	2.5	6.3	6.3	1.9	8.2
Allen's fossa	15.3	10.2	3.6	2.1							3.8	2.0
Poirier's facet	5.5	4.5			3.1	5.7	37.5	20.0	6.3	6.3	7.5	6.1
Poirier's plaque	6.7	8.9	9.1	8.3	3.1	2.9	12.2	15.0	6.3		3.8	2.0
Tibial squatting facets	16.3	11.1	10.0	2.3		2.9			30.8	21.4	17.0	12.8
Vastus notch	30.0	14.3	16.7		25.0	8.3	26.7	37.5	14.3	12.5	10.0	9.5
calcaneal facet absent	2.5	1.3	5.6	4.8			3.7	3.8		7.7	2.8	
calcaneal facet double	40.0	44.2	50.0	47.6	22.7	27.3	14.8	30.8		53.8	38.9	32.3
talar facet double	18.2	19.5	28.6	28.6	20.0	23.8	14.8	26.1		41.7	41.2	21.2

talar squatting facet	20.8	10.4	4.8	4.8	5.0	4.8	11.1	13.0		8.3	2.9	
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Table 4B.31 Incidence rates of non-metric traits amongst individuals in plots.

orientation groups	right side				left side			
	1	2	3	4	1	2	3	4
enthesis site								
posterior calcaneus	44.4	40.0	100.0		44.4	25.0	100.0	
inferior calcaneus	6.7				4.5			
deltoid tubercle	23.0	15.4			16.1	15.4		
femur greater trochanter	15.8				8.6			
femur lesser trochanter	15.4				8.3			
fibula	11.9	14.3			15.9	33.3		
finger flex	54.9	28.6			53.1	28.6		
humerus lateral epicondyle	17.1	12.5			2.9			
humerus medial epicondyle	7.1				4.9			
iliac crest	35.0	33.3			39.5	60.0		
ischial tuberosity	25.5	12.5			20.5	12.5		100.0
linea aspera	20.5	11.5		50.0	18.8	8.0		50.0
olecranon process	16.0	37.5		100.0	12.5	37.5		100.0
patella	31.8	20.0			31.8	33.3		
radial tuberosity	15.1	25.0			6.3	25.0		
rotator cuff	7.1			100.0	10.3			100.0
soleal line	38.2	18.8			35.8	18.8		
tibia tubercle	12.5	14.3			8.7	14.3		

Table 4B.32 The incidence of enthesopathies amongst the plots. The number present of each type of enthesopathy is given as a percentage of the total number of the relevant bone in the specified group.

Plot	Period 1	Period 2	Period 3	Period 4	Total number in plot that could be put in periods
1	34.09	4.15	30.88	30.88	5
2	13.47	17.22	34.06	35.25	254
3	10.37	15.81	34.04	39.78	88
4	3.87	12.05	42.05	42.05	2
5	20.52	26.45	32.77	20.27	4
6	9.17	6.31	37.14	47.39	3
7	7.73	24.09	34.09	34.09	1
8	14.76	11.81	45.18	28.25	7
10	11.55	10.04	26.71	51.71	5
11	9.5	9.12	35.13	46.24	9
12	1.93	12.27	30.4	55.4	4
15	3.87	12.05	36.81	47.29	5
18	65.98	8.88	12.57	12.57	4
19	44	56	0	0	1
21	21.92	20.38	28.85	28.85	2
22	14.34	16.76	36.27	32.62	29
28	12.88	14.76	33.85	38.52	74
29	10.3	11.82	35.31	42.58	12

Table 4B.33 The likely proportion of individuals from each plot in each period.

Age group	Number in group	Number as % of total in overall sample
1	49	8.9
2	34	6.2
3	29	5.3
4	56	10.2
5	159	28.9
6	54	9.8
7	117	21.3
8	35	6.4
9	17	3.1
total	550	

Table 4B.34 The age composition of the overall sample.

Age group	Male (1 & 2)	Indeterminate (3)	Female (4 & 5)	Total number in age group	Sex ratio male:female
4	30	7	19	56	1.6:1
5	91	14	54	159	1.7:1
6	32	4	18	54	1.8:1
7	33	66	18	117	
Totals	186	91	109	386	

Table 4B.36 Sex composition of overall sample.

	Number of individuals in category	that number as % of total number in sample
Cranial Index		
dolichocranial	70	36.8
mesocranial	99	52.1
brachycranial	21	11.1
total assessed	190	
Length-height Index		
chamaecranial	66	41.0
orthocranial	79	49.1
hypsocranial	16	9.9
total assessed	161	
Breadth-height Index		
tapeinocranial	63	39.9
metriocranial	81	51.3
akrocranial	14	8.9
total assessed	158	
Fronto-parietal Index		
stenometopic	39	20.7
metriometopic	81	51.3
eurymetopic	63	33.5
total assessed	188	
Palatal Index		
leptostaphyline	41	30.1
mesostaphyline	28	20.6
brachystaphyline	67	49.3
total assessed	136	

Cranial module overall Range 128.07-165.17 Average 151.39

Table 4B.37 Objective assessment of cranial morphology in the overall sample.

Description	% of total number assessed corresponding to that description
Skull shape (total assessed 55)	
long and narrow	3.6
oval	63.6
pear	25.5
round	7.3
Face shape (total assessed 12)	
broad	25.0
inverted triangle	16.7
long and narrow	25.0
oval	16.7
rectangular	16.7
Forehead shape (total assessed 78)	
high and convex	2.6
high and vertical	25.6
low and convex	23.1
low and receding	21.8
low and vertical	2.6
medium height and convex	9.0
medium height and receding	1.3
medium height and vertical	14.1
Nose shape (total assessed 9)	
broad root, low bridge and narrow aperture	11.1
broad root, low bridge and wide aperture	11.1
broad root, prominent bridge and narrow aperture	11.1
narrow root, low bridge and narrow aperture	33.3
narrow root, prominent bridge and narrow aperture	11.1
narrow root, low bridge and wide aperture	11.1
narrow root, prominent bridge and wide aperture	11.1
Palate shape (total assessed 62)	
broad and deep	9.7
broad and shallow	11.3
broad and medium depth	8.1
medium width and deep	14.5
medium width and depth	4.8
medium width and shallow	3.2

narrow and moderate depth	8.1
narrow and deep	33.9
narrow and shallow	6.5
Chin shape (total assessed 86)	
pointed	7.0
round	33.7
square	43.0
square and pointed	16.3

Table 4B.38 Subjective descriptions of cranial morphology for overall sample.

Meric index

description	number corresponding to this description as % of total assessed
left femur (total assessed 430)	
hyperplatymeric	5.3
platymeric	26.5
eumeric	68.1
right femur (total assessed 436)	
hyperplatymeric	4.8
platymeric	19.5
eumeric	75.7

Cnemic index

description	number corresponding to this description as a % of the total number assessed
left tibia (total assessed 327)	
hyperplatycnemic	0.9
platycnemic	4.6
mesocnemic	32.1
eurycnemic	62.4
right tibia (total assessed 275)	
hyperplatycnemic	1.1
platycnemic	5.8
mesocnemic	26.2
eurycnemic	66.9

Left femur robusticity index
range 10.8-24.93 (penultimate 16.02) average 12.77

Right femur robusticity index
range 10.53-24.14 (penultimate 15.29) average 12.57

Table 4B.39 Objective descriptions of post-cranial morphology.

	number that could be assessed	number of individuals with pathology as % of the overall total	% with nutritional pathology	% with infections	% with degenerative pathology	% with traumatic pathology	% with neoplasms	% with metabolic pathology	% with congenital pathology	% with other types of pathology
overall sample	550	52.2	0.2	2.5	32.5	24.4	0.7	6.9	4.9	21.5
Table 40a										
male (1 & 2)	186	73.1	0.5	2.2	55.4	44.6	1.1	6.5	9.1	26.9
indeterminate (3)	88	42.0		1.1	21.6	9.1		4.5		23.9
female (4 & 5)	109	76.1		4.6	54.1	37.6	1.8	7.3	9.2	27.5
Table 40b										
age group 1	49	20.4		4.1				10.2		8.2
age group 2	34	32.4						23.5		17.6
age group 3	29	27.6		6.9		6.9		10.3		13.8
age group 4	56	69.6		5.1	30.4	53.6		7.1	12.5	33.9
age group 5	159	76.1	0.6	2.5	57.2	42.8	1.3	8.8	9.4	23.3
age group 6	54	83.3		3.7	75.9	40.7	3.7	7.4	7.4	38.9
age group 7	117	41.0		1.7	27.4	9.4		1.7	0.9	17.9
age group 8	35	5.7			2.9					5.7

age group 9	17	23.5				5.9				17.6
Table 40c										

Table 4B.40a The incidence rates of pathology in the overall sample.

Table 4B.40b The incidence rates of pathology amongst males and females in the overall sample.

Table 4B.40c The incidence rates of pathology amongst different age groups in the overall sample.

	% of pathologies of slight severity	% of pathologies of moderate severity	% of pathologies of gross severity	total number of cases assessed
hypoplasia	86.8	10.5	2.7	295
caries	91.1	8.3	0.6	168
calculus	92.5	7.2	0.3	1678
alveolar recession	97.3	1.9	0.8	729
periodontal disease	92.0	5.9	2.1	949

Table 4B.41 The number of cases of each dental pathology listed of slight, moderate or gross severity as a % of the total number of cases of that particular pathology.

Enthesis	% of right sides affected	% of left sides affected
posterior calcaneus	51.3	51.3
inferior calcaneus	17.4	12.9
deltoid tubercle	23.8	23.8
femoral greater trochanter	12.7	13.8
femoral lesser trochanter	10.2	9.4
fibula	23.4	26.9
hand phalanges	66.4	65.8
humerus lateral epicondyle	36.2	28.7
humerus medial epicondyle	14.8	12.2
iliac crest	46.2	43.0
ischial tuberosity	28.5	26.5
linea aspera	16.7	17.4
olecranon process	43.2	34.5
patella	46.7	52.6
radial tuberosity	17.4	12.8
soleal line	49.2	48.5
tibia tubercle	18.3	17.5

Table 4B.43 The incidence rates of enthesopathies amongst the overall sample. (Calculated as the number of cases of a particular enthesopathy as a % of the total number of individuals with the relevant site present.)

	Period 1	Period 2	Period 3	Period 4
whole cemetery	16.5	16.5	33.0	33.0
inhumations	13.32	16.06	33.98	36.64
cremation burials	22.74	21.62	26.33	24.31
male inhumations	14.68	15.31	35.55	34.46
female inhumations	10.94	12.16	36.01	40.89
inhumation age group 1	8.36	18.68	32.88	40.08
inhumation age group 2	11.25	16.95	34.37	37.43
inhumation age group 3	10.71	21.91	35.38	32.00
inhumation age group 4	10.52	12.46	38.06	38.96
inhumation age group 5	16.58	12.61	34.54	36.27
inhumation age group 6	12.94	15.67	34.77	36.61
inhumation age group 7	13.79	15.31	33.51	37.40
inhumation age group 8	11.65	19.50	31.31	37.53
inhumation age group 9	18.33	28.87	27.39	25.41

Table 4B.44 The likely proportions of the sample in each of the four periods when subdivisions of burial rite, sex and age are considered.

Plot	total number of individuals in plot	% of immature	% of subadult	% of adult	% of older adult
2	228	16.7	7.0	39.5	7.9
3	71	7.0	4.2	28.2	8.5
16	47	25.5	8.5	31.9	7.0
17	55	5.5		58.2	12.7
22	24	20.8	8.3	37.5	4.2
28	57	22.8	1.8	43.9	17.5
29	7	42.9	28.6	14.3	

where:

- immature = inhumation age groups 1 and 2
- subadult = inhumation age group 3
- adult = inhumation age groups 4 and 5
- older adult = inhumation age group 6

NB inhumation age groups 7 (adult but no other data) and 9 (immature but no other data) have been excluded.

Table 4B.45 Age composition of the inhumation burials according to the cremation burial terminology subdivided by plot.

Type of burial	Male (1 & 2)	Indeterminate (3)	Female (4 & 5)	Total number of individuals
overall	48.2	22.8	28.2	386
chalk	47.1	23.5	29.4	34
prone	40.0		60.0	10
“decapitated”	40.0	20.0	40.0	5
with grave goods	49.1	20.8	30.2	106
with lead coffin	100.0			1
without container	57.6	22.7	19.7	66
with tile cist	100.0			2
with wood fragments	53.3	13.3	33.3	15
with wood and lead container	100.0			3
with wood fragments and nails	43.9	27.7	28.4	285
with ceramics with residues	33.3	66.6		3
with food or animal parts	50.0	16.7	33.3	12
with funerary structures	66.6		33.3	3

Table 4B.46 Sex composition of special burials.

Type of burial	Infant (age group 1)	Immature (age groups 2, 3 and 9)	Adult (age groups 4, 5, 6 and 7)	no data available (age group 8)	Total number of individuals assessed
overall	8.9	14.5	70.2	6.4	550
chalk	18.5	16.7	57.4	7.4	54
prone		28.6	71.4		14
“decapitated”		16.7	83.3	6	
with grave goods	9.5	11.7	73.7	5.1	137
with lead container			100.0		1
with lead and wood containers		100.0			1
without container	12.8	10.5	75.6	1.2	86
with tile cist			100.0		2
with wood fragments		16.7	77.8	5.6	18
with wood and lead container			100.0		3

with wood fragments and nails	8.8	14.5	69.4	7.3	386
with ceramics with residues	25.0		50.0	25.0	4
with food or animal parts	13.3		80.0	6.7	15
with funerary structures		20.0	60.0	20.0	5

Table 4B.47 Age composition of the special burials.

Type of burial	Male (1)	Possible male (2)	Possible female (4)	Female (5)
with chalk	169.4 (6)	165.2 (2)	159.35 (2)	155.82 (5)
prone	170.05 (2)			159.8 (4)
“decapitated”	174.5 (2)			
with grave goods	172.44 (25)	167.09 (7)	156.36 (5)	156.58 (12)
with tile cists	174.8 (1)			
with wood fragments	169.0 (3)		159.4 (2)	160.0 (1)
without container	170.17 (18)	167.27 (3)	151.7 (2)	157.63 (8)
with wood and lead containers	173.8 (2)			
with wood fragments and nails	170.07 (62)	166.92 (11)	159.53 (12)	157.59 (38)
with food or animal parts	169.8 (1)	161.87 (3)		156.3 (2)
with funerary structures	173.65 (2)			170.0 (1)

Table 4B.48 Average statures of the special burials.

Type of burial	long and narrow	oval	pear	round	total number of skulls assessed
overall	3.6	63.6	25.5	7.3	55
with chalk		55.6	33.3	11.1	9
prone		50.0		50.0	2
“decapitated”		100.0			1
with grave goods		41.7	41.7	16.7	12
without container	12.5	75.0		12.5	8
with wood fragments		50.0	50.0		2
with wood fragments and nails	62.8	30.2	7.0	43	
with food or animal parts			50.0	50.0	2

Table 4B.49 Subjective description of skull shape amongst the special burials.

Type of burial	nutritional pathology	infections	degenerative pathology	traumatic pathology	neoplasms	metabolic pathology	congenital pathology	other pathology	total number of cases of pathology recorded
overall	0.08	1.7	53.4	15.7	0.4	3.6	2.8	22.1	1127
with chalk		1.9	49.1	11.8		3.1	2.5	161	
prone	2.2	4.5	43.2	11.4		4.5	2.3	31.8	44
“decapitated”			62.5	16.0	4.2	4.2		12.5	24
with grave goods		2.2	50.2	18.4		4.8	2.9	21.6	315
with lead container			50.0	25.0		25.0			4
with lead and wood containers						100.0			4
without container	0.4	2.3	61.4	13.3	0.4	2.3	3.4	16.7	264
with tile cists		5.6	72.2					22.2	18
with wood fragments			52.8	8.3	2.8	11.1		25.0	36
with wood and lead containers			33.3	66.6					3
with wood fragments and nails		1.6	50.3	17.5	0.3	3.1	3.1	24.2	753
with food or animal parts			59.5	9.5		4.8		26.2	42
with funerary			62.5	12.5			12.5	12.5	8

structures									
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Table 4B.50 Incidence rates of pathology amongst the special burials.

Site code	context number	burial number	bone condition	completeness of skeleton	number of cervical vertebrae present
WTN84	1031	103	2	50%	6
HOO88	1474	661	3	50%	5
HOO88	1323	666	3	80%	5
HOO88	1485	707	3	50%	0
HOO88	1230	733	1	85%	7
PRE89	61	821	1	80%	7

Table 4B.51 Condition of the skeletal remains in the burials with displaced skulls.

Site code	context number	location of green stain
HOO88	1280	zygomatic process
HOO88	1485	all over right femur (black deposit all over left)
HAY86	159	second and third cervical vertebrae
ETN88	11	left carpals and all metacarpals, midshaft of right humerus, two right rib fragments
ETN88	18	right tibia dorsal surface distal end
ETN88	31	right ulna distal end
ETN88	46	lower vertebrae
SCS83	159	second and third cervical vertebrae
WTN84	345	right tibia distal end
WTN84	532	carpals and proximal phalanges of both hands, first and second metatarsals of right foot
WTN84	534	right radius (infant)
WTN84	596	feet
WTN84	906	maxilla, mandible and front teeth
MSL87	142	slight trace on outer edge of left orbit
MSL87	644	lingual surface of left mandible towards rear of tooth row, slight on right inferior facet of atlas, strong on anterior surface of axis dens epistrophei and left facet, strong all over third cervical vertebra, less so on fourth cervical vertebra
MSL87	711	tiny stain on right parietal
MSL87	800	strong on right half of buccal surface of maxilla most concentrated around socket of first molar but extending from tooth first premolar to second molar, teeth also stained, lingual surface of bone not stained
MSL87	993	very small stain on posterior surface of right tibia distal third of shaft

MSL87	1906	faint stain on midshaft of right radius and ulna
MSL87	1989	lateral half of right orbit roof extending slightly onto frontal, left auditory meatus and temporal apex
MSL87	1564	slight on shaft of an immature left fourth metatarsal included in, but not part of, primary burial

Table 4B.52 Location of green staining.