

Summary Information	
Site Code: HOSIR17	Skeleton Number: 1493
Period: Roman	Phase:
Sub Phase:	Group number: 50018
Grave cut: 1445	Grave fill: 1494
Database record created on: 26/06/2018	Database record created by: Lauren McIntyre
Osteo analysis by: LM	Attached files: DSC_0001 (129).JPG - () DSC_0002 (109).JPG - ()
Completeness category: 76-100%	Completeness estimate: 95%
Fragmentation: Low	Surface condition: Grade 1
Overall preservation: Good	
Ancestry:	Adult/Juvenile: Adult
Age category: Middle adult (36-45 yrs)	Probable age range (yrs):
Sex estimation: ?Male	
Cranial index:	Cranial index classification:
Femur - platymeric index: 76.06	Platymeric index classification: Platymeric
Tibia - platycnemic index: 68.29	Platycnemic index classification: Mesocnemic
Stature: 168.51±3.27 (based on left Femur)	
Congenital/developmental condition/s present?: 1	Non-specific inflammation/infection present?: 1
Evidence for specific infection observed?:	Metabolic disease observed?:
Spinal joint disease observed?: 1	Extra-spinal joint disease observed?: 1
Trauma observed?: 1	Medical intervention/post-mortem investigation/anatomisation observed?:
Circulatory condition observed?:	Neoplastic disease observed?:
Miscellaneous pathology observed?:	Undiagnosed pathology observed?:
Photographs taken?:	Additional paper records?: 1
Radiography recommended?: yes (Possible wedge fracture TV 9 body)	Pathogen DNA recommended?: no ()
Further research/analysis required?: yes (2.1g R tibial shaft sampled for C14)	Requires Publication Photography?: no ()
Publication Photography Complete?: no ()	Other comments: Calculus, caries, AMTL, periodontal disease, periapical cavity, activity related wear VBOP, spondylosis deformans, Schmorl's nodes, ante mortem fracture, extra-spinal osteoarthritis, rotator cuff disease, marginal osteophytes, spondylolysis, sacralisation, additional (sacralised) LV
Other observations:	
Condition/preservation	
Completeness category: 76-100%	Completeness estimate: 95%
Fragmentation: Low	Surface condition (McKinley 2004): Grade 1
Overall preservation: Good	Truncation/major skeletal regions missing?:
Staining:	Pits presence: 0
Pits value:	Striations presence: 0
Striations value:	Comments:

Inventory

Adult inventory: skull

	Right	Left	Comments
Parietal	1	1	
Temporal	1	1	
Petrous	0	0	
Maxilla	1	1	
Observable maxillary sinus	1	0	
Nasal	1	1	
Zygomatic	1	1	
Lacrimal	1	0	
Palatine	1	1	
Mandible	1	1	
Orbit	1	1	
Ear ossicles	0	1	
	Unsided	Comments	
Frontal	1		
Occipital	1		
Sphenoid	1		
Vomer	0		
Ethmoid	0		
Observable endocranial surface	1		
Inferior nasal concha	0		
Hyoid	0		
Cricoid cartilage	0		
Thyroid cartilage	0		
Other cartilage	0		
Any cranial vault present?	1		
Any facial region present (maxilla/zygomatic/nasal)?	1		
	Comments		
Overall comments			

Adult inventory: axial

	Unsided	Comments	
Manubrium	1		
Sternal body	1		
Xyphoid	0		
Sacrum	1		
Coccyx 1	0		
Coccyx 2	0		
Coccyx 3	0		
	Body	Arch	Comments
C1	1	1	
C2	1	1	
C3	1	1	
C4	1	1	
C5	1	1	
C6	1	1	
C7	1	1	
Supernumerary CV	0	0	
Unidentified CV #	0	0	
T1	1	1	
T2	1	1	
T3	1	1	

T4	1	1		
T5	1	1		
T6	1	1		
T7	1	1		
T8	1	1		
T9	1	1		
T10	1	1		
T11	1	1		
T12	1	1		
Supernumerary TV	0	0		
Unidentified TV #	0	0		
L1	1	1		
L2	1	1		
L3	1	1		
L4	1	1		
L5	1	1		
Supernumerary LV	1	1		
Unidentified LV #	0	0		
S1	1	1		
S2	1	1		
S3	1	1		
S4	1	1		
S5	1	1		
Supernumerary SV	0	0		
Unidentified SV #	0	0		
	Right	Left	Comments	
Rib 1	1	1		
Rib 2	1	1		
Rib 3	1	1		
Rib 4	1	1		
Rib 5	1	1		
Rib 6	1	1		
Rib 7	1	1		
Rib 8	1	1		
Rib 9	1	1		
Rib 10	1	1		
Rib 11	1	1		
Rib 12	0	1		
Supernumerary rib	0	0		
	Right	Left	Unsided	Comments
Unidentified rib #	0	0	0	
	Unsided	Comments		
Ossified costal cartilage	0			
	Comments			
Overall comments				

Adult inventory: upper limbs

Right	Sternal third	Middle third	Acromial third		
Clavicle	1	1	1		
Left	Sternal third	Middle third	Acromial third		
Clavicle	0	1	1		
Right	P 1/3	M 1/3	D 1/3	Any part	
Humerus	1	1	1	1	
Radius	1	1	1	1	
Ulna	1	1	1	1	
Left	P 1/3	M 1/3	D 1/3	Any part	

Humerus	1	1	1	1	
Radius	0	1	1	1	
Ulna	1	1	1	1	
	Right	Left	Comments		
Scapula	1	1			
Acromion observable for os acromiale?	0	1			
Scaphoid	1	1			
Lunate	1	0			
Capitate	1	1			
Triquetral	1	0			
Pisiform	1	1			
Trapezium	1	1			
Trapezoid	1	1			
Hamate	1	0			
Metacarpal 1	1	1			
Metacarpal 2	1	1			
Metacarpal 3	1	1			
Metacarpal 4	1	1			
Metacarpal 5	1	1			
	Unsided	Comments			
Metacarpal (unidentified)	0				
	Right	Left	Unsided	Comments	
Proximal phalanges	5	5	0		
Intermediate phalanges	4	3	0		
Distal phalanges	5	4	0		
Hand sesamoids	0	0	0		
Comments					
Overall comments					

Adult inventory: lower limbs

Right	P 1/3	M 1/3	D 1/3	Any part	
Femur	1	1	1	1	
Tibia	1	1	1	1	
Fibula	0	1	1	1	
Left	P 1/3	M 1/3	D 1/3	Any part	
Femur	1	1	1	1	
Tibia	1	1	1	1	
Fibula	1	1	1	1	
Right		Left	Comments		
Innominate	1	1			
Auricular surface	1	1			
Pubic symphysis	1	1			
Femur anterior neck region observable for cribra femoralis?	1	1			
Patella	1	1			
Talus	1	1			
Calcaneus	1	1			
Cuboid	1	1			
Navicular	1	1			
Medial cuneiform	0	1			
Intermediate cuneiform	1	1			
Lateral cuneiform	1	1			
Metatarsal 1	1	1			
Metatarsal 2	1	1			
Metatarsal 3	1	1			
Metatarsal 4	1	1			
Metatarsal 5	1	1			

	Unsided	Comments		
Metatarsal (unidentified)	0			
	Right	Left	Unsided	Comments
Proximal phalanges	5	5	0	
Intermediate phalanges	2	0	0	
Distal phalanges	2	1	0	
Foot sesamoids	1	1	0	
Comments				
Overall comments				

Adult inventory: joints

	Right	Left	Comments
Temporo-mandibular joint	1	1	
Acromio-clavicular joint	1	1	
Sterno-clavicular joint	1	1	
Gleno-humeral joint	1	1	
Elbow	1	1	
Wrist	1	1	
Hand	1	1	
Sacro-iliac joint	1	1	
Hip	1	1	
Knee	1	1	
Ankle	1	1	
Foot	1	1	
Metatarsal 1 - proximal phalanx 1	1	1	
Comments			
Overall comments			

Ancestry assessment

Metrical assessment:					
Skull complete for CRANID?				0	
CRANID carried out?				0	
CRANID document					
CRANID result				No Data	
Morphological assessment (only carry out where non-White characteristics are suspected):					
Characteristic	East Asian	Am. Indian	White	Polynesian	Black
Cranial form	☐ Broad	☐ Med-broad	☐ Medium	☐ Highly variable	☐ Long
Sagittal outline	☐ High, globular	☐ Medium-low sloping frontal	☐ High, rounded	☐ Medium	☐ Highly variable post-bregmatic expression
Cranial sutures	☐ Complex	☐ Complex	☐ Simple	☐ Complex	☐ Simple
Nose form	☐ Medium	☐ Medium	☐ Narrow	☐ Medium	☐ Broad
Nasal bone size	☐ Small	☐ Medium/large	☐ Large	☐ Medium	☐ Medium/small
Nasal bridge form	☐ Flat	☐ Med/tented	☐ High/steeply like	☐ Medium	☐ Low/Quonset hut
Nasal profile	☐ Concave	☐ Concavo-convex	☐ Straight	☐ Concavo/convexo-concave	☐ Straight/concave
Interorbital projection	☐ Very low	☐ Low	☐ High-prominent	☐ Low	☐ Low
Nasal spine	☐ Medium	☐ Medium, tilted	☐ Prominent, straight	☐ Highly variable	☐ Reduced
Nasal sill	☐ Medium	☐ Medium	☐ Sharp	☐ Dull/absent	☐ Dull/absent
Incisor form	☐ Shovelled	☐ Shovelled	☐ Blade	☐ Blade/shovelled	☐ Blade
Facial prognathism	☐ Moderate	☐ Medium	☐ Reduced	☐ Moderate	☐ Extreme
Alveolar prognathism	☐ Moderate	☐ Medium	☐ Reduced	☐ Moderate	☐ Extreme
Malar form	☐ Projecting	☐ Projecting	☐ Reduced	☐ Projecting	☐ Reduced
Zygomatic-maxillary suture	☐ Angled	☐ Angled	☐ Curved	☐ Curved/angled	☐ Curved/angled
Palatal form	☐ Parabolic/elliptic	☐ Elliptic/parabolic	☐ Parabolic	☐ Parabolic	☐ Hyperbolic/parabolic
Palatine suture	☐ Straight/jagged	☐ Straight	☐ Jagged	☐ Highly variable	☐ Arched/jagged

Orbital form	☐ Round	☐ Rhomboid	☐ Rhomboid	☐ Rhomboid	☐ Round
Mastoid form	☐ Wide	☐ Wide	☐ Narrow, pointed	☐ Wide	☐ Oblique posterior tubercle
Mandible	☐ Robust	☐ Robust	☐ Medium, cupped below incisors	☐ Rocker form	☐ Oblique gonial flare
Chin projection	☐ Moderate	☐ Moderate	☐ Prominent	☐ Moderate	☐ Reduced
Chin form	☐ Median	☐ Median	☐ Bilateral	☐ Median	☐ Median
Morphological assessment result				No Data	
Final assigned ancestry category				No Data	
Comments					

Sex estimation

Sex not estimated – juvenile skeleton			No Data
Final sex estimation	?Male		
Comments			
Comments			
Skull			
Method	Category	Comments	
Supraorbital ridges	?		
Orbit margin	?Female		
Frontal/forehead slope	?Male		
Mastoid processes	?Female		
Posterior zygomatic arch	No Data		
Nuchal crest	Male		
Anterior mandible	?Female		
Mandibular ramus width	?Male		
Mandibular ramus angle	Male		
Gonial flaring	Male		
Comments			
Comments			
Pelvis/sacrum			
Method	Category	Comments	
Sciatic notch	?Male		
Subpubic angle	?		
Subpubic concavity	?Female		
Ischio-pubic ramus	No Data		
Ventral arc	?Female		
Preauricular sulcus	?		
Obturator foramen	Male		
Pelvic brim	Male		
Acetabulum	Male		
Illium auricular surface	No Data		
Sacral alae width	Male		
Sacral curvature	?Male		
Sacral auricular surface	No Data		
Comments			
Comments			
Sex estimation measurements			
	Right (mm)	Left (mm)	Comments
Scapula – glenoid cavity length GC1	-	-	
Humerus – vertical diameter of head HuD5	48.20	-	
Radius – max diameter of head	23.90	-	
Femur – max diameter of head FeDs	49.90	-	
Femur – bicondylar width FeEI	-	-	

Metrics for sex estimation (after Chamberlain 1994, Bass 1987)		
Method	Category	Comments
Scapula - glenoid cavity length GC1 (>37=M, <34=F)	No Data	
Humerus - vertical diameter of head HuD5 (>47=M, <43=F)	Male	
Radius - max. diameter of head (>24=M, <21=F)	No Data	
Femur - max. diameter of head FeDs (>48=M, <43=F)	Male	
Femur - bicondylar width FeE1 (>78=M, <72=F)	No Data	
Comments		
Comments		

Age estimation

Adult or Juvenile	Adult	
epiphyseal fusion		
Medial clavicle	Complete	
Lateral clavicle	Complete	
Iliac crest	Complete	
Ischial epiphysis	Complete	
Other	No Data	
Dental development/eruption		
Third molars	Fully erupted and/or apex complete	
Dental Attrition		
Brothwell (1981)	25-35 yrs	
Miles (1963) M1	42-48 yrs	
Miles (1963) M2	38-45 yrs	
Miles (1963) M3	39-46 yrs	
Pubic symphysis		
Suchey-Brooks (1990)	Phase 4 (M = 23-57 yrs, mean 35.2 yrs)	
Suchey-Brooks (1990) Span of two or more phases	-	
Auricular surface		
Buckberry & Chamberlain (2002)		
Transverse organisation	4	
Surface texture	4	
Microporosity	1	
Macroporosity	1	
Apical changes	2	
Composite score	11-12 (Stage IV: 29-81 yrs, mean 51 yrs)	
Lovejoy et al (1985)		
Lovejoy et al (1985)	Phase 5 (40-44 yrs)	
Lovejoy et al (1985) Span of two or more phases	-	
Sternal rib ends		
Işcan & Loth (1993)	No Data	
Işcan & Loth (1993) Span of two or more phases	-	
Cranial suture closure (Meindl & Lovejoy (1985))		
Vault sites composite score	No Data	

Lateral-Anterior sites composite score	No Data	
Final age estimation		
Age category	Middle adult (36-45 yrs)	
Lower end of range		Upper end of range
Probable age range (yrs)	-	-
Comments		
Overall comments		

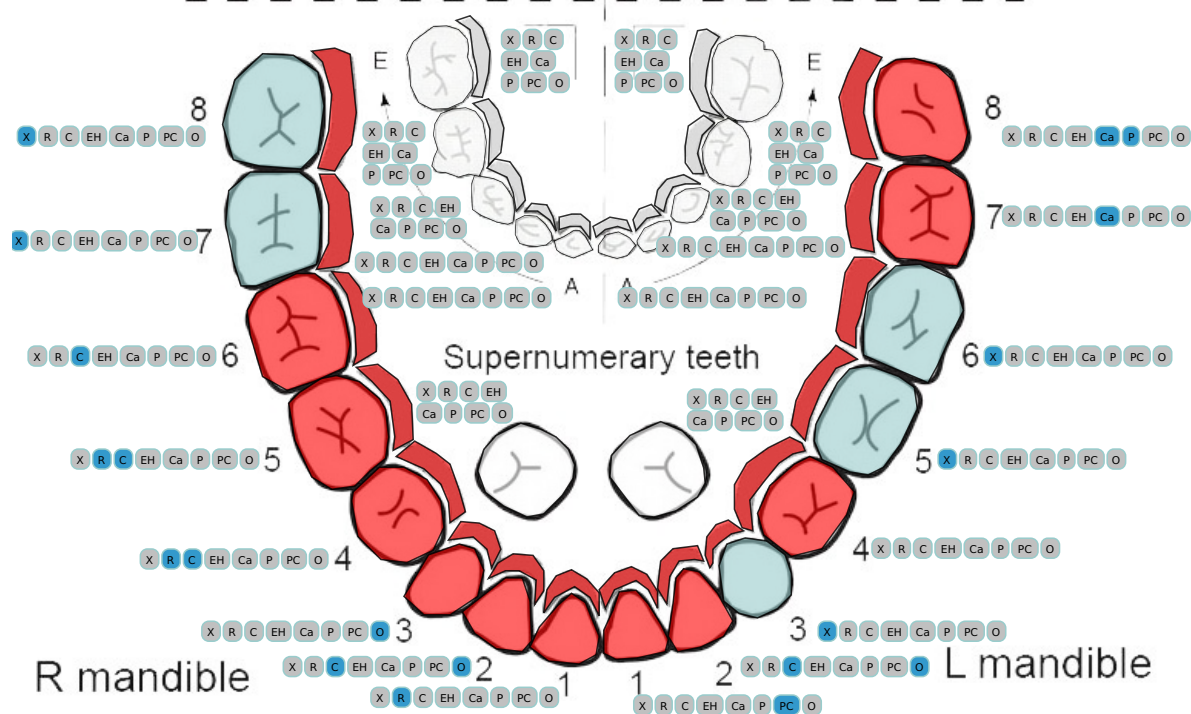
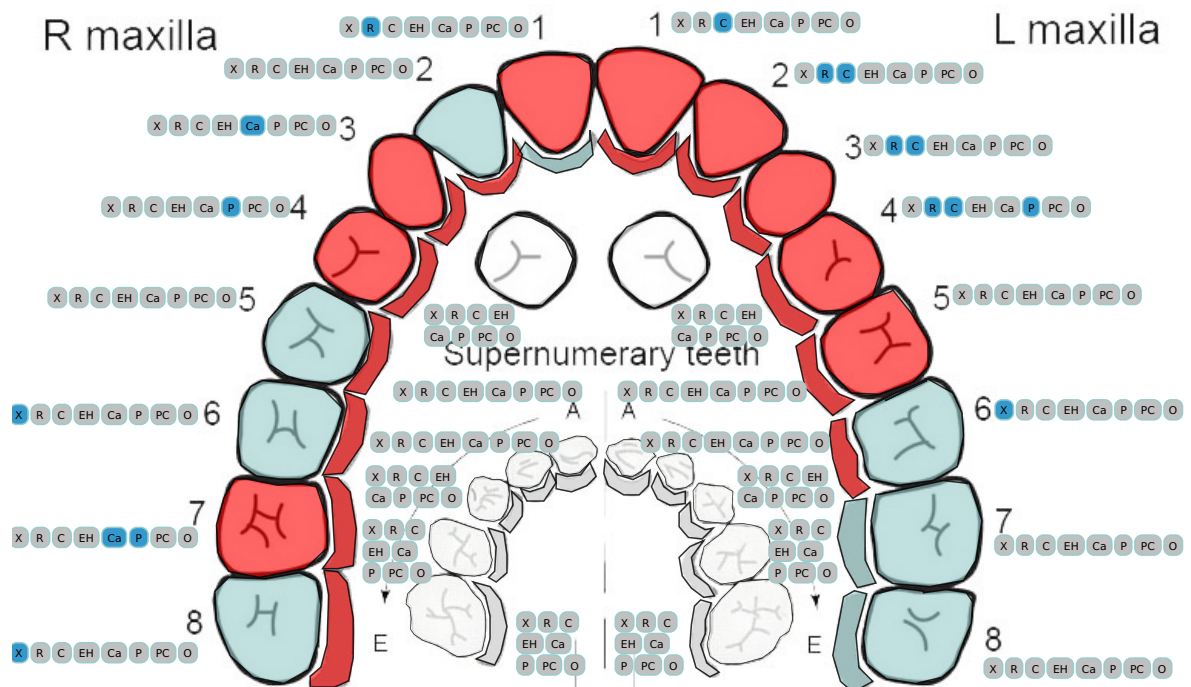
Dentition

Dentition summary

Dentition observable?	Yes
Total no. permanent teeth (inc. unerupted teeth in sockets)	20
Total no. permanent teeth (not inc. unerupted teeth in sockets)	20
Total no. deciduous teeth (inc. unerupted teeth in sockets)	0
Total no. deciduous teeth (not inc. unerupted teeth in sockets)	0
Total no. permanent sockets/tooth positions	29
Total no. deciduous sockets/tooth positions	0
Total no. permanent sockets observable for periodontitis	10
Total no. deciduous sockets observable for periodontitis	0
Total no. permanent sockets observable for periapical cavity	29
Total no. deciduous sockets observable for periapical cavity	0
Total no. permanent teeth congenitally absent	0
Total no. deciduous teeth congenitally absent	0
Total no. permanent teeth not present	0
Total no. deciduous teeth not present	0
Total no. permanent teeth lost post-mortem	2
Total no. deciduous teeth lost post-mortem	0
Total no. permanent teeth lost ante-mortem	8
Total no. deciduous teeth lost ante-mortem	0
Total no. permanent teeth with caries	9
Total no. deciduous teeth with caries	0
Caries severity	Medium / Small / Whole crown
Total no. permanent teeth with calculus	4
Total no. deciduous teeth with calculus	0
Calculus severity	Slight
No. permanent teeth observable for dental enamel hypoplasia	11
No. deciduous teeth observable for dental enamel hypoplasia	0
Total no. permanent teeth with dental enamel hypoplasia	0
Total no. deciduous teeth with dental enamel hypoplasia	0
Dental enamel hypoplasia max. age range (in years)	-
Total no. permanent sockets with periodontitis	4
Total no. deciduous sockets with periodontitis	0
Total no. permanent sockets/tooth positions with a periapical cavity	1
Total no. deciduous sockets/tooth positions with a periapical cavity	0
Other dental anomalies/conditions observed	Activity related wear
Total no. supernumerary teeth/sockets present?	0

R maxilla

L maxilla



Legend

- X - Ante-mortem tooth loss
- R - Root only
- C - Caries
- EH - Enamel Hypoplasia
- Ca - Calculus
- P - Periodontitis
- PC - Periapical cavity
- O - Other dental pathologies

Non metrics

Non metrics - Cranial

	Unsidied	Comments	
Metopism	0		
Highest nuchal line	0		
Ossicle at lambda	Not recordable		
Bregmatic bone	0		
	Right	Left	Comments
Lambdoid ossicle	Not recordable	Not recordable	
Coronal ossicle	Not recordable	Not recordable	
Ossicle at asterion	Not recordable	Not recordable	
Epipteric bone	Not recordable	Not recordable	
Parietal notch bone	Not recordable	Not recordable	
Fronto-temporal articulation	Not recordable	Not recordable	
	Unsidied	Comments	
Palatine torus	Not recordable		
	Right	Left	Comments
Maxillary torus	0	0	
Mandibular torus	0	1	
Auditory torus	0	0	
Parietal foramen	0	0	
Accessory infraorbital foramen	0	Not recordable	
Absent zygomaticofacial foramen	1	1	
Supraorbital foramen (bridged notch)	1	1	
Accessory supraorbital/frontal foramen	1	1	
Mastoid foramen absent	0	0	
Mastoid foramen extrasutural	0	0	
Double condylar facet	1	1	
Precondylar tubercle	0	0	
Foramen of Huschke	0	0	
Incomplete foramen ovale	Not recordable	Not recordable	
Accessory lesser palatine foramen	Not recordable	Not recordable	
Open foramen spinosum	Not recordable	Not recordable	
Anterior ethmoid foramen (extrasutural)	Not recordable	Not recordable	
Posterior ethmoid foramen (absent)	Not recordable	Not recordable	
Posterior condylar canal open	Not recordable	Not recordable	
Double anterior condylar canal	Not recordable	Not recordable	
Comments			
Comments			

Non metrics - Post Cranial

	Right	Left	Comments
Atlas - facet form double	1	0	
Atlas - lateral bridge	0	0	
Atlas - posterior bridge	Not recordable	0	
Atlas - bipartite transverse foramen	0	0	
Scapula - supra-scapular foramen	0	0	
Scapula - acromial articular facet	Not recordable	0	
	Unsidied	Comments	
Sternum - sternal foramen	0		
	Right	Left	Comments
Humerus - septal aperture	0	0	

Humerus - supra-condylar process	0	0	
Pelvis/sacrum - accessory sacral facets	0	0	
Acetabular crease	0	0	
Femur - Allen's fossa	0	0	
Femur - Poirier's facet	1	1	
Femur - plaque	0	0	
Femur - third trochanter	0	0	
Femur - hypotrochanteric fossa	0	0	
Femur - exostosis in trochanteric fossa	0	0	
Patella - emarginate	0	0	
Patella - vastus notch	0	0	
Patella - vastus fossa	0	0	
Tibia - medial squatting facet	0	1	
Tibia - lateral squatting facet	1	1	
Talus - os trigonum	0	0	
Talus - double inferior anterior facet	1	1	
Talus - lateral talar extension	0	0	
Talus - medial talar facet	0	0	
Calcaneus - anterior facet absent	0	0	
Calcaneus - double anterior facet	1	1	
Calcaneus - peroneal tubercle	0	0	
Calcaneus - calcaneus secundarius	0	0	

Comments			
Comments			

Metrics

Metrics - Cranial

Description of points used		Central (mm)	Is reconstructed	Comments		
Max cranial length GOL	Glabella to opisthocranion	-	☐			
Nasio-occipital length NOL	Nasion to opisthocranion	-	☐			
Cranial base length BNL	Basion to nasion	-	☐			
Basion-bregma height BBH	Basion to bregma	-	☐			
Max cranial breadth XCB	Euryon to euryon	-	☐			
Max frontal breadth XFB	Max breadth at coronal suture	-	☐			
Biauricular breadth AUB	Auriculare to auriculare	-	☐			
Biasterionic breadth ASB	Asterion to asterion	-	☐			
Basion to prosthion length BPL	Basion to prosthion	-	☐			
Upper facial height NPH	Nasion to prosthion	-	☐			
Description of points used		Right (mm)	Is reconstructed	Left (mm)	Is reconstructed	Comments
Nasal height NLH	Nasion to nasospinale	-	☐	-	☐	
Orbital height OBH	Height between upper + lower borders and perpendicular to line bisecting orbit	-	☐	-	☐	
Orbital breadth OBB	Dacryon to ectoconchion	-	☐	-	☐	
Description of points used		Central (mm)	Is reconstructed	Comments		
Bijugal breadth JUB	Jugulare to jugulare	-	☐			
Nasal breadth NLB	Alare to alare	-	☐			
Maxillo-alveolare breadth MAB	Ectomolare to ectomolare	-	☐			
Bimaxillary breadth ZMB	Zygomaxillare to zygomaxillare	-	☐			
Zygomaxillary subtense SSS	Subtense from subspinale to bimaxillary breadth	-	☐			
Bifrontal breadth/upper facial breadth FMB	Frontomolare anterior to frontomolare anterior	-	☐			
Nasion-frontal subtense NAS	Subtense from nasion to upper facial breadth	-	☐			
Biorbital breadth EKB	Ectoconchion to ectoconchion	-	☐			
Interorbital breadth DKB	Dacryon to dacryon	-	☐			
Description of points used		Right (mm)	Is reconstructed	Left (mm)	Is reconstructed	Comments
Cheek height WMH	Minimum distance in any direction from lower border of orbit to zygomatic/maxilla	-	☐	-	☐	
Description of points used		Central (mm)	Is reconstructed	Comments		
Frontal chord FRC	Nasion to bregma	-	☐			
Nasion-bregma subtense FRS	Subtense from nasion to bregma	-	☐			
Parietal chord PAC	Bregma to lambda	-	☐			
Bregma-lambda subtense PAS	Subtense from bregma to lambda	-	☐			
Occipital chord OCC	Lambda to opisthion	-	☐			
Lambda-opisthion subtense OCS	Subtense from lambda to opisthion	-	☐			
Comments						
Cranial index = (max. cranial breadth x 100)/Max. cranial length	-					
Cranial index classification	-					
Dolichocranic (Narrow/long headed)	<75.0					
Mesocranic (Average/medium)	75.0 – 79.9					
Brachycranic (Broad/round headed)	80.0 – 84.9					
Hyperbrachycranic (Very broad headed)	>84.9					
Comments						
Comments						

Metrics - Post Cranial

	Right (mm)	Is reconstructed	Left (mm)	Is reconstructed	Comments
Mandible - min ramus breadth RB	-	☐	-	☐	
	Central (mm)	Is reconstructed	Comments		
Mandible - bicondylar breadth WI	-	☐			
Mandible - foramen mentale breadth ZZ	-	☐			
Mandible - bigonial breadth GoGo	-	☐			
Mandible - max. length ML	-	☐			
Atlas - max internal width	-	☐			
Sternum - max length body SL	-	☐			
Sternum - max length manubrium ML	-	☐			
Sacrum - max length SacL	-	☐			
Sacrum - max breadth SacB	-	☐			
	Right (mm)	Is reconstructed	Left (mm)	Is reconstructed	Comments
Clavicle - max length CiL1	-	☐	-	☐	
Scapula - glenoid cavity length GC1	-	☐	-	☐	
Scapula - glenoid cavity width GC2	-	☐	-	☐	
Humerus - max length HuL1	-	☐	-	☐	
Humerus - vertical diameter of head HuD5	48.20	☐	-	☐	
Humerus - minimum shaft circumference HC	-	☐	-	☐	
Radius - max length RaL1	-	☐	-	☐	
Radius - max diameter of head	23.90	☐	-	☐	
Ulna - max length UiL1	-	☐	-	☐	
Femur - max length FeL1	-	☐	450.00	☒	
Femur - oblique length FeL2	-	☐	-	☐	
Femur - ant-post subtroch diameter FeD1	-	☐	28.60	☐	
Femur - med-lat subtroch diameter FeD2	-	☐	37.60	☐	
Femur - ant-post midshaft diameter FeD3	-	☐	-	☐	
Femur -mediolateral midshaft diameter FeD4	-	☐	-	☐	
Femur - max diameter of head FeDs	49.90	☐	-	☐	
Femur - midshaft circumference C	-	☐	-	☐	
Femur - bicondylar width FeEI	-	☐	-	☐	
Tibia - length TiL1	-	☐	-	☐	
Tibia - max ant-post diameter at nutrient foramen TiD1	-	☐	36.90	☐	
Tibia - transverse (med-lat) diameter at nutrient foramen TiD2	-	☐	25.20	☐	
Tibia - circumference at nutrient foramen C	-	☐	-	☐	
Fibula - max length FiL1	-	☐	-	☐	
Comments					
Femur - platymeric index = (FeD1 x 100)/FeD2 (N.B. L used in preference over R)	76.06				
Platymeric index classification	Platymeric				
Platymeric (broad or flat, from front to back)	<84.9				
Eurymeric	85.0 - 99.9				
Stenomeric (usually only found in pathological cases)	>100.0				
Tibia - platycnemic index = (TiD2 x100)/TiD1 (N.B. L used in preference over R)	68.29				
Platycnemic index classification	Mesocnemic				

Hyperplatycnemic	<54.9	
Platycnemic	55.0 - 62.9	
Mesocnemic	63.0 - 69.9	
Eurycnemic	>70.0	

Regression equations and standard error taken from Trotter 1970

NB sex for stature estimation auto-fills from 'Sex estimation' page. Ancestry is automatically set to 'White'. For non-White skeletons, manually select Ancestry from the drop-down list below, calculate stature using the appropriate equation and insert the result below, ensuring the error margin is also correct

	Sex	Ancestry	Bone used	Bone side used	Stature (cm)	Error (cm)	Comments
Stature calculation	Male	-	Femur	left	168.51	3.27	
Save preferred bone?	☐						
Stature (cm)			Comments				
Adjusted stature	-						
Comments							
Comments							

Pathology

Pathology - Congenital/developmental

	Presence	Details	Comments
Congenital/developmental condition/s present?	1		
Syndrome indicated?	-	-	
Skull affected?	-		
If affected:			
Craniosynostosis	-	-	
Cleft palate	-	-	
Auditory meatus defect	-	-	
Hydrocephalus	-	-	
Enlarged parietal foramina	-	-	
Other skull abnormality	-	-	
Ribs affected?	-		
If affected:			
Bifid rib	-	-	
Flared rib	-	-	
Conjoined/bridged ribs (not secondary to trauma)	-	-	
Supernumerary rib	-	-	
(note whether cervical or lumbar, and if underdeveloped etc.)			
Other rib abnormality	-	-	
Spine affected?	1		
If affected:			
Vertebral border shifting			
Occipitalisation	-	-	
Lumbarisation	-	-	
Sacralisation	1	-	Sacralisation of LV6
Sacral-caudal (coccyx) shifting	-	-	
Other vertebral border shifting abnormality	-	-	
Supernumerary/congenital absence of vertebral segments			
Additional CV (i.e. not resulting from border shifting)	-	-	
Additional TV (i.e. not resulting from border shifting)	-	-	
Additional LV (i.e. not resulting from border shifting)	1	-	Sacralised LV6
Additional SV (i.e. not resulting from border shifting)	-	-	
Additional coccygeal segment	-	-	
Absence of vertebral segment (i.e. not resulting from border shifting)	-	-	
Other supernumerary/absent vertebral segment	-	-	
Spinal curvature disorder (congenital only, not secondary to trauma)			
Scoliosis	-	-	
Kyphosis	-	-	
Lordosis	-	-	
Other spinal curvature abnormality	-	-	
Other spinal abnormalities			
Spina bifida atlanta (cleft neural arch of atlas)	-	-	
Spina bifida occulta (cleft neural arch of sacrum) (inc. any cleft from top, but if cleft from bottom, must be more than just SV4-5 - state cleft location in comments)	-	-	
Bifid/cleft neural arch (any vertebra)	-	-	
Spondylolysis	1	-	LV5
Butterfly vertebra	-	-	
Klippel-Feil syndrome (congenital	-	-	

fusion of CV)			
Congenital fusion of other vertebrae	-	-	
Other spinal abnormality	-	-	
Extra-spinal bones affected?	-		
If affected:			
Os acromiale right	Not recordable	-	
Os acromiale left	0	-	
Symphalangism	-	-	
Polydactyly	-	-	
Absent MC3 styloid/s (additional nodule/lump on capitate?)	-	-	
Carpal coalition	-	-	
Tarsal coalition	-	-	
Congenital hip dysplasia/subluxation/dislocation	-	-	
Other extra-spinal bone abnormality	-	-	
Comments			
Overall comments			

Pathology - Non-specific inflammation/infection

Non-specific inflammation/infection present?	1				
		Right	Left		
Maxillary sinusitis		0	Not recordable		
If present, is maxillary sinusitis secondary to dental disease?		0	0		
Endocranial lesions (Lewis 2004)	0				
If present:					
	Frontal	Parietal	Occipital	Temporal	
Type 1 - porous lesions	0	0	0	0	
Type 2 - fibre bone formation	0	0	0	0	
Type 3 - capillary lesions	0	0	0	0	
Type 4 - 'Hair-on-end' lesions	0	0	0	0	
Comments					
		Right	Left		
Sacroiliitis		0	0		
Periostitis observed?	1				
If present:					
Periostitis:					
Affected bone	0/1/Count	Healing status	Severity	Localisation	Details
Mandible	1	Healed	Slight	Localised	Very remodelled periosteal new bone on the right anterior mandible, around the right mandibular foramen and below R mand. C-M1. Associated with dental disease?
R Fibula	1	Healed	Slight	Localised	Medial fibula midshaft
Ectocranial porosity - 'orange-peel' lesions	0				
Osteitis observed?	0				
If present:					
Osteitis:					
Affected bone	0/1/Count	Healing status		Details	
Osteomyelitis observed?					0
If present:					
Osteomyelitis:					
Affected bone	0/1/Count	Healing status		Details	
Overall comments					

Pathology - Specific Infection

Evidence for specific infection observed?	0	
If present:		

Specific infections:	
Infection	Details
Overall comments	

Pathology - Metabolic

	Presence	Details	Comments
Evidence for metabolic disease observed?	-		
If present:			
Cribra orbitalia (anaemia) (Stuart-Macadam 1991) Right	0		
Cribra orbitalia (anaemia) (Stuart-Macadam 1991) Left	0		
Porotic hyperostosis (anaemia)	-	-	
Rickets/residual rickets deformity (juvenile Vit D deficiency)	-	-	
Osteomalacia (adult Vit D deficiency)	-	-	
Scurvy (Vit C deficiency)	-	-	
Age-related bone loss/Osteoporosis	-	-	
Other	-	-	
Comments			
Overall comments			

Pathology - Spinal joint disease

	Presence	Comments			
Spinal joint disease observed?	1				
If present:					
Schmorl's nodes	1				
Vertebral body marginal osteophytes	1				
Vertebral body pitting/dense bone	1				
Spinal Osteoarthritis (sup/inf/costal facets/odontoid joint)	-				
	Total no. bodies with Schmorl's nodes	Total no. bodies with marginal osteophytes (spondylosis deformans)	Total no. bodies with pitting/dense bone (spondylosis deformans)	Total no. bodies with both marginal osteophytes AND pitting/dense bone	Total no. arches with OA (inc. odontoid joint)
CV	-	6	5	5	-
TV	7	8	4	4	-
LV	-	5	5	5	-
SV1	-	1	1	1	-
	Presence	Details	Comments		
Ankylosis of vertebrae (due to joint disease)	-	-			
Spondylolisthesis (e.g. secondary to spondylolysis)	-	-			
Comments					
Overall comments					

Pathology - Extra-spinal joint disease

Presence		Comments	
Extra-spinal joint disease observed?	1		
Extra-spinal osteoarthritis observed (in any joint)?	1		
If present:			
		R - OA present? (after	L - OA present? OA (after

Joint	Right	Rogers + Waldron 1995, 44)	Left	Rogers + Waldron 1995, 44)	secondary to trauma	Comments
TMJ	-	-	-	-	-	
Acromio-clavicular	OP+PO	1	OP+PO+JC	1	-	OP & PO R lateral clavicle OP & PO L lateral clavicle and acromion, plus JC in L acromion
Sterno-clavicular	-	-	OP	-	-	OP L side of the manubrium
Gleno-humeral	OP+JC	1	OP	-	-	OP L glenoid and L humeral head OP R glenoid and humeral head, plus JC at humeral head. Associated rotator cuff disease?
Elbow	OP	-	OP	-	-	OP distal L&R humerus and proximal ulna
Wrist	OP	-	OP	-	-	OP R distal radius OP L distal ulna and ulna facet of the radius. Also distal radius.
Hand	-	-	OP	-	-	OP proximal L MC2
Hip	OP+PO	1	OP	-	-	PO & OP L acetabulum, OP L femoral head OP R acetabulum and femoral head
Knee	OP	-	OP+PO+JC+EB	1	-	All 4 changes observed distal L femur. JC and OP L proximal tibia. OP L patella. OP L distal femur
Ankle	-	-	-	-	-	
Foot	-	-	-	-	-	
MT1-PP1	-	-	-	-	-	

	Right	Left	Comments	
Hallux valgus	0	0		
	Presence	Details		Comments
Rotator cuff disease	1	-		Remodelling/porosity, and flattening of the lesser tuberosity (at and around the attachment site for subscapularis). L humerus
Gout	-	-		
DISH (confident diagnosis)	-	-		
?Probable/early DISH	-	-		
Rheumatoid arthritis	-	-		
Ankylosing spondylitis	-	-		
Psoriatic arthritis	-	-		
Reactive arthritis/Reiter's disease	-	-		
Undefined seronegative arthropathy	-	-		
Septic/pyogenic arthritis	-	-		
Other	-	-		
Comments				
Overall comments				

Pathology - Trauma

Trauma observed?	1		
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Ante-mortem trauma:				
Ante-mortem fracture observed?	1			
If present:				
Ante-mortem fractures:				
Affected bone	0/1/Count	Healing status	Apposition	Details
TV body	1	Healed	Aligned	Possible compression/wedge fracture, TV9. Vertebral body noticably wedged anteriorly. Recommend radiography to confirm.
R Foot phalanx	1	Healed	Aligned	Fracture proximal phalanx, assoc M<T1 (MT1 not affected). When c.f. L phalanx, the R is shorter. Transverse fracture line observed just proximal to the distal end of the bone. Small, remodelled torus also present around this location. These may occur e.g. from kicking or stubbing the toe on a hard object
Other ante-mortem trauma:				
Subluxation/dislocation	0			
Ossified haematoma	0			
Myositis ossificans traumatica	0			
Other muscle/soft tissue trauma	0			
Parturition scar/s	0			
Traumatic amputation	0			
Other	0			
Peri-mortem trauma:				
Peri-mortem trauma present?	0			
If present:				
Peri-mortem trauma (e.g. fractures, cut marks, projectile injury, etc.):				
Affected bone	0/1/Count	Force		Details
Other	0			
Overall comments				

Pathology - Medical intervention/Post-mortem investigation etc.

	Presence	Details	Healing	Comments
Medical intervention/post-mortem investigation/anatomisation observed?	-			
If present:				
Amputation (isolated limb present only)	-	-		
Amputation (skeleton present, limb missing)	-	-	-	
Trepanation	-	-	-	
Craniotomy	-	-		
Longitudinal cuts (long bones)	-	-		
Ribs/clavicles cut (ev. for chest autopsy)	-	-		
Decapitation	-	-		
Other modification	-	-		
Comments				
Overall comments				

Pathology - Circulatory

	Presence	Details	Joint	Comments
Circulatory condition observed?	-			
If present:				

Osteochondritis dissecans	-	-	-	
Scheuermann's disease	-	-		
Aortic aneurism (visible on vert. bodies)	-	-		
Perthes disease (osteochondrosis of femoral head)	-	-		
Other	-	-		
Comments				
Overall comments				

Pathology - Neoplastic

	Presence	Details	Comments
Neoplastic disease observed?	-		
If present:			
Tumours of osseous origin:			
Osteoid osteoma	-	-	
Osteoma (inc. button)	-	-	
Osteoblastoma	-	-	
Osteosarcoma	-	-	
Other tumours of osseous origin	-	-	
Tumours of cartilage origin:			
Chondroma	-	-	
Chondroblastoma	-	-	
Osteochondroma	-	-	
Chondrosarcoma	-	-	
Other tumours of cartilage origin	-	-	
Tumours of fibrous connective tissue origin:			
Desmoplastic fibroma	-	-	
Non-ossifying fibroma	-	-	
Fibrosarcoma	-	-	
Other tumours of fibrous connective tissue origin	-	-	
Other neoplastic disease:			
Multiple myeloma	-	-	
Ewing's sarcoma	-	-	
Other	-	-	
Comments			
Overall comments			

Pathology - Miscellaneous

	Presence	Details	Comments
Miscellaneous pathology observed?	-		
If present:			
Cribra femoralis Right	0		
Cribra femoralis Left	0		
Hyperostosis frontalis interna (HFI)	-	-	
Elongated stylohyoid process (may cause Eagle syndrome)	-	-	
Paget's disease	-	-	
Bone former (not rel. to another pathology e.g. DISH)	-	-	
Osteochondritis non-dissecans	-	-	
Plastic Deformation (e.g. of ribs due to corsetry)	-	-	
Other (e.g. calcified soft tissue)	-	-	
Comments			
Overall comments			

Pathology - Undiagnosed Conditions

Undiagnosed pathology observed?	0						
No. of undiagnosed conditions observed in this skeleton	0						
If present:							
Undiagnosed conditions:							
Affected bone	0/1/Count	Lesion Type	Possible Diagnosis 1	Possible Diagnosis 2	Possible Diagnosis 3	Further analysis recommended? (e.g. radiography, microscopy, pathogen DNA)	Details
Overall comments							