

Bartlemas Human Bone

Charnel Pit 1: (1026)

1026/1(a)	R femur complete but greater trochanter damage	Rickets A/P bowing; drill holes in femoral neck and distal articular surface; very pronounced linea aspera and striated new bone on posterior surface below it
1026/1(b)	L femur complete but with greater trochanter damage	Rickets A/P bowing; drill holes in femoral neck and distal articular surface
1026/1(c)	R proximal tibia (75%)	Rickets; drill holes in proximal and distal articular surfaces; M/L bowing
1026/1(d)	L tibial shaft (65%)	Rickets M/L bowing
1026/2(a)	R distal femur (90%)	Very gracile
1026/2(b)	L femur (missing trochanter)	Very gracile
1026/3(a)	R proximal femur (75%)	395 mm; enthesopathy for medial head of gastrocnemius
1026/3(b)	L femur complete	
1026/4	Complete L tibia	370 mm in length
1026/5	Complete L tibia	Gracile, 321 mm in length; ? recently fused; slight lamellar bone deposition in middle third on lateral surface
1026/6(a)	L humerus (damaged head)	Deep depressions above distal articular surfaces bilaterally
1026/6(b)	R humerus complete	
1026/7	L humerus (damaged head)	
1026/8	R tibial shaft (80%) with proximal and distal ends/ shaft fragments	Gracile and from a young adult (proximal recently fused). Striated lamellar bone in distal third of medial surface and mid-third of lateral surface (slight)
1026/9	R clavicle	Fracture of distal end
1026/10	R clavicle	Gracile and light in colour with porosity of lateral articular surface and disruption of the bone laterally suggesting trauma to acromioclavicular joint. Flattening of anterior aspect of bone medially
1026/11	L clavicle	Copper staining on anterior aspect; L 159mm (M); slight deltoid enthesopathy
1026/12	R scapula	Eburnation, porosity and osteophytosis (3) of acromioclavicular joint indicative of osteoarthritis. May suggest traumatic subluxation at that joint. Enthesopathy just inferior to glenoid and labrum (1) posteriorly. Robust individual
1026/13	L os coxa (ilium and ischium); 10 R rib fragments, 10 left rib fragments; 20 miscellaneous rib fragments	From a very gracile young adult, ? F (iliac crest recently fused)

Charnel Pit 2

1007	L femur (proximal third), 7 femoral fragments, L ulna (proximal half), L radius	
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	(proximal half), L rib shaft and four other fragments, 2 tibial condyles, neural arch fragment	
1007	L humeral shaft (missing both ends)	Proximal end shows canid gnawing; Just above deltoid are 5 score marks from rodent gnawing. Suggests bone was lying around on surface not buried
1007	L tibia and ?L fibula shafts	Extremely severe periosteal reactions on both tibial and fibular shafts. On the tibia it is mainly lateral and posterior but on the fibula all three surfaces are affected equally
1015/1(a)	R femur complete	Poirier's facet; marginal osteophytes (2) surrounding distal articular surface
1015/1(b)	L femur complete	Allen's fossa; marginal osteophytes (1) around distal articular surface
1015/2(a)	R proximal femur (50%)	Craggy deposits of new bone along linea aspera
1015/2(b)	L proximal femur (60%)	Craggy deposits of new bone along linea aspera
1015/3	L femoral shaft (90%)	Craggy deposits of new bone along linea aspera and smooth just inferior to it posteriorly, indicating severe enthesopathy; gnawing around femoral head fragment
1015/4	Complete left tibia	Small area of woven bone on posterior surface 1 cm in extent 60 mm above pronounced tibialis posterior insertion
1015/5	L distal tibia (75%) and R tibial shaft (50%)	Severe periosteal reactions affecting both bones. On right it covers all three surfaces, on the left mainly on medial and lateral. Left tibia has pronounced squatting facet.
1015/6	Distal right tibia (25%)	? from same individual as 1015/4
1015/7(a)	L fibula distal (90%)	Woven on lateral aspect of shaft in distal third
1015/8(a)	R humerus complete	
1015/8(b)	L humerus complete	
1015/9	R radius complete	Very gracile; Goodfellow and Bullough lesion on proximal end
1015/10	R radius (60%) shaft	
1015/11	L ulna complete	
1015/12	L proximal ulna (40%)	From small, gracile individual
1015/13	L ulna (60%) proximal fragment	
1015/14	R ulna (50%) shaft	
1015/15		
1015/16	R distal fibula (10%)	Severe deposits of periosteal reactive bone on all surfaces
1015/17	Fibula shaft fragments	Thick layers of new bone representing multiple episodes of chronic infection with 'candlewax' appearance
1015/18	Horse epiphysis	
1015/19	Edentulous maxilla	No evidence of leprosy. Sharp edges to nasal margins and sharp nasal spine
1015/20	R scapula L scapula	Parts of both scapulae including both glenoid cavities and acromions. Small scapular fragments
1015/21	L os coxa	With shallow sciatic notch. It is very robust and probably male
1015	R and L zygomatic	
1015	L os coxa 2 R os coxae	Fragments from L os coxa from small young individual; R ossa coxae from 2 individuals one from older adult. 17 frags.

1015	Mandible	Canines and molars present. Robust. Male individual.
1015	Vertebrae and sacrum	C4-7 and T1. C7 show intervertebral osteochondrosis. Also C5-C7 from a gracile individual. C6 and C7 show intervertebral osteochondrosis and osteophytosis. Also two lumbar vertebrae with Schmorl's node and intervertebral osteochondrosis. Fragments of two sacral vertebrae; neural arch fragments.
1015	Hand bones	Five metacarpals, two proximal and one mid hand phalanges. Robust capitate bone.
1015	Foot bones	Two proximal foot phalanges and cuneiform fragment
1015	Foot bones	Left first metatarsal fused to proximal phalanx with 'beret' appearance. The bone is porous with erosions at distal end due to septic arthritis due to leprosy. Also metatarsal with knife-edge remodelling and distal metatarsal with porosity.

Charnel Pit 3

Context	Bone	Comment
1034	R talus R cuboid Cranial fragment Mid hand phalanx Rib fragment Non-human fragment	From large individual Fragmentary ? from frontal ? non-human
1034	Non-human fragment	
1034/1	L prox femur (80% inc frags)	Very robust – femoral head diameter 52.23 mm; enthesopathy along linea aspera for adductors
1034/2(a) 1034 (b) 1034 (c) 1034 (d)	R prox and dis femur (80%) L proximal tibia (80%) R proximal tibia (80%) R humerus (85%)	Greater trochanter recently fused; head absent ? unfused Smooth swelling on distal lateral surface due to infection Smooth swelling latero-distally due to infection Unfused, gracile, flattened antero-posteriorly; plaque of woven bone on posterior aspect superimposed on porous lamellar bone, swollen by infection Juvenile 16-18 years with chronic infection of both tibiae and right humerus
1034/3	Mid-shaft fibula fragment	Extensive deposits of woven bone indicating repeated episodes of infection

Drain east of chapel: (1053)

1053/1 1052/2 1053/3 1053/4 1053	L femur (trochanter and shaft fragments) (30%), femur mid-shaft(50%); femur 3 mid-shaft fragments, L distal radius (20%), L proximal radius (20%) and mid-shaft fragment R humeral head, L distal ulna (60%), 2 nd metacarpal shaft, L 3 rd and 5 th metacarpals, pubic symphysis from young adult (ventral rampart not formed); rib fragment	
1053/5	Shaft fragments from R (50%) and L (25%) tibia	Extensive lamellar bone formation, particularly severe on lateral surfaces
1053/7	R distal fibula (25%)	Lamellar bone formation on medial surface with patchy deposits superimposed on striated areas

Soakaway: (1054)

2 cranial fragments (L frontal and parietal), L femur (proximal fragment and 12 other shaft fragments), R patella, humeral (25% mid shaft) and humeral head fragment, R rib fragment; proximal hand phalanx L humeral shaft fragment (25%) very robust	Large cortical defect (2 cm long) in deltoid insertion Shaft thinned towards its distal end
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Sk 9

Teeth: Maxilla: LI2, both Cs, LPM3 and LPM4, M1 subadult crown; mandible both Cs, both PM3s, both M1s	Enamel hypoplasia of all four canines, possible early carious lesions on R mand M1 and one mandibular PM3
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Cemetery soils

Context	Bone	Comment (e.g. Pathology)
Trench 1		
1000	L clavicle	Robust lateral third of clavicle with pronounced coracohumeral and Coracoclavicular attachments (area of rugosity antero-inferiorly)
1000C	L parietal, R clavicle, 2 calcanei (incomplete)	
1000D	R patella, L 1 st rib, rib shaft fragment	
1000E	Ulna Scapula Radius (? Non-human) Rib Rib	Midshaft fragment (40%) Lateral border Midshaft fragment (very dense for human – modification at distal end) Midshaft fragment
1000F	R femur (distal 25%); R tibia (distal articular surface), 5 th lumbar vertebra	Enthesopathy at insertion of gastrocnemius; very small circular area of eburnation on medial condyle.
1001	R 1 st rib frag 2 rib shaft frags Cervical vertebra ? 4th 2 lumbar vertebral body fragments R 2 nd maxillary molar	Head of first rib Gracile, from young adult, endplate fused, no path Both from inferior vertebral body
1002	Cranial fragment (R frontal), neural arch fragment, cervical vertebra	From juvenile
1010	9 cranial fragments (mni 2), including left parietal, frontal (x3), temporal, left zygomatic, cervical vertebra, body fragment and 2 neural arch fragments, facet for dens, lumbar neural arch, 2 R and 1L rib heads, shaft fragments, R distal humerus (50%) and radius (10%)	
1016	Left maxilla with teeth – LP1, LP2, LM1,	Rounded nasal aperture, resorption of

	LM2, M3 lost PM Cervical vertebra, parietal fragment, 2 rib fragments, bone fragments (8g)	alveolar bone, calculus, periodontal disease, dental trauma
1019F	R radius ? R tibia Foot	Proximal fragment (20%) Distal fragment (5%) 2 proximal phalanges; 1 misc bone fragment
1049/1 1049	11 cranial fragments (frontal, parietal, occipital), L distal femur, R proximal humerus fragment, atlas vertebra, L scapula fragment, fibula fragment, rib fragments Midshaft R humeral fragment	4 fragments of long bone ? from fibula display very severe periosteal reactions with spicules of bone projecting from their surfaces Area of fine microporosity just posterior to deltoid insertion ? cause
Trench 2		
2000	Cranial fragment, distal ulna (?L)	
2003	Cranial fragment	
2006	Right maxillary I1, left mandibular P1	Carious lesion in premolar
2034	Shaft fragment ? ulna	
2052	Ulna fragments (distal)	
2057	Rib midshaft fragments, thoracic vertebral fragments	
Trench 3		
3000	R proximal radius (10%) and tibial shaft fragment	Slight biceps enthesopathy (1) on radius
3000*	Proximal hand phalanx (missing proximal end)	
3002	2 cranial fragments, part of left maxilla with LI1 lost am, LI2 lost pm; LI2, LP3, LP4 present; mandibular RM2 and RC present; L 1 st proximal hand phalanx	Rounding of nasal aperture and resorption of central alveolar bone; moderate calculus on maxillary teeth and molar, considerable calculus on mandibular canine
3002*	2 central mandibular fragments, 3 cranial vault fragments ? frontal	Possible perimortal injury indicated by curvilinear edge
3003		
3005	Cranium L clavicle Hand Femur Rib	13 fragments including occipital (x3), parietal, zygomatic and frontal bones. Very strong muscle attachment on nuchal crest; L temporal with very robust mastoid suggesting male; lipping of groove posterior to mastoid process Midshaft fragment Large right scaphoid with osteophyte; Left 5 th metacarpal
3005*	Maxillary R canine, L m3; mandibular Rm2 and ?Rm3	Heavy buccal calculus on maxillary teeth; wear minimal
3008	2 cranial vault fragments	
3013		
3015	C7 vertebra, cervical vertebral body fragment, thoracic vertebral body	C6 shows slight intervertebral osteochondrosis as does the other vertebral body, thoracic vertebra has a Schmorl's node in its superior endplate