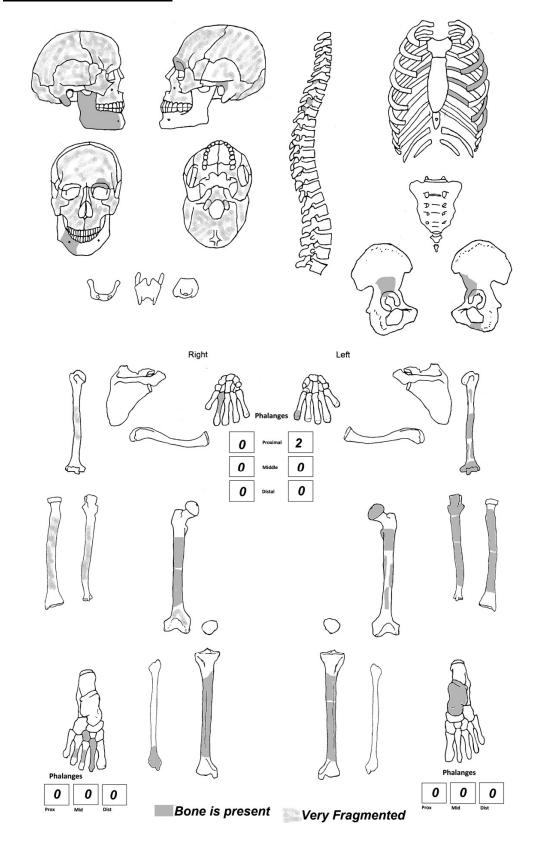
# **Appendix 1: Skeletal Recording Sheet**

MRRN22 Skeleton 1

# **Skeletal Element Presence**



### **Tooth Presence**

	RigI	Right									Left					
Upper																
	$M^3$	$M^2$	$M^1$	$P^2$	$P^1$	С	<sup>2</sup>	l <sup>1</sup>	l <sup>1</sup>	<sup>2</sup>	С	$P^1$	$P^2$	$M^1$	$M^2$	M <sup>3</sup>
Lower	M <sub>3</sub>	M <sub>2</sub>	M <sub>1</sub>	P <sub>2</sub>	P₁	С	12	I <sub>1</sub>	I <sub>1</sub>	12	С	P₁	P <sub>2</sub>	M <sub>1</sub>	M <sub>2</sub>	М₃
			np	np	X	X	X									

P present; \ post mortem loss; - tooth present but socket missing; x tooth lost ante mortem; np tooth not present; --- jaw and teeth not present; c caries; b broken tooth; a abscess; e erupting; u unerupted

### **Taphonomy**

**Erosion Grade of Bone Following McKinley 2004:** 

Grade 3: Most of bone surface affected by some degree of erosion (by root action); general morphology maintained but detail of parts of surface masked by erosive action

Any bone exhibiting different erosion grades:

Bone	Area	Erosion Grade
Femur (Left and Right)	Diaphysis	Grade 4
Tibia (Left and Right)	Diaphysis	Grade 5

Grade 4: All of bone surface affected by erosive action (in this cases predominantly root activity); general profile maintained and depth of modification not uniform across whole surface

Grade 5: Heavy erosion (in this case by root action) across whole surface, completely masking normal surface morphology, with some modification of profile.

Bleaching, discolouration and burning of bones:

Bone	Area	Observation
Tibia (Left and Right)	Diaphysis	Brown discoloration on most of surface due to soil
		staining.

**Gnawing: None Present** 

Bone	Area	Observation

### **Age Determination**

Skeletal Region	Method	Observations	Phase/stage	Inference
Medial clavicle	Scheuer and Black 2000	Bone Not Present		
Sacrum	Scheuer and Black 2000	Bone Not Present		
Jugular growth plate	Maat and Mastwijk 1995	Bone Not Present		
Pubic symphysis	Brooks and Suchey 1990	Bone Not Present		

Auricular surface	Lovejoy et al 1985	Bone Not Present	
Sternal ends of ribs	Iscan et al 1985	Bone Not Present	
Mineralisation of 3rd molar	Hillson 1996	Bone Not Present	
Dental Attrition	Brothwell 1981	Extensive alveolar reabsorbion	Senior Adult
		after pre mortem tooth loss	(45+)

## **Sex Assessment**

### <u>Pelvis</u>

	Trait Scores		Score	Sex Prob	ability
Ventral Arc	Subpubic Contour	Medial Aspect	Using Positive Weights	<b>PP</b> Female	PP Male
-	-	-			

Pubic Traits following Phenice 1969, Walker 2008 and Klales et al 2012/

### <u>Skull</u>

Trait	Sc	core
Nuchal Crest (1-5)		
Glabella (1-5)		
	Left	Right
Mastoid Process (1-5)		2
Supraorbital Margin (1-5)		1

Skull sexing traits following Buikstra and Uberlaker 1994.

## <u>Mandible</u>

Trait	Observation
Overall Size	Small
Width of Ascending Ramus	-
Flaring of Gonial Angle	-
Shape of Chin	-

Mandible sexing traits following Brickley 2004

## **Stature Estimation**

Bone	Length (cms)	Stature Estimate
Humerus	incomplete	
Radius	Incomplete	
Ulna	Incomplete	
Femur	Incomplete	
Tibia	Incomplete	
Femur + Tibia	Incomplete	
Humerus + Tibia	Incomplete	
Humerus + Femur + Tibia	Incomplete	

Stature estimation after Trotter and Gleser (1958)

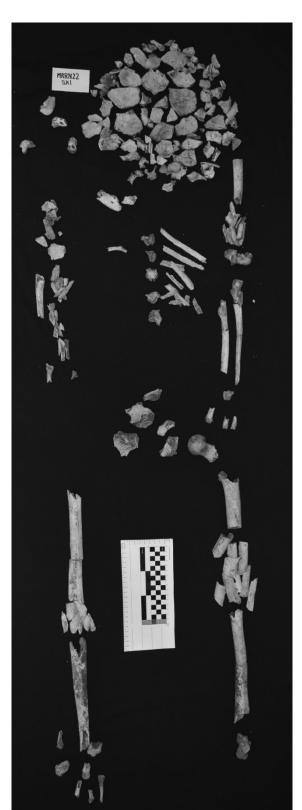


Figure 1:Skeleton 1, Skeletal Presence

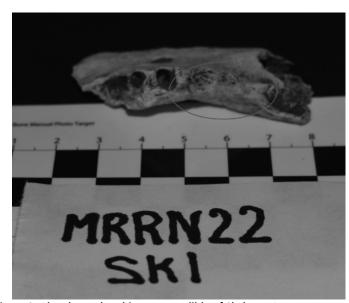
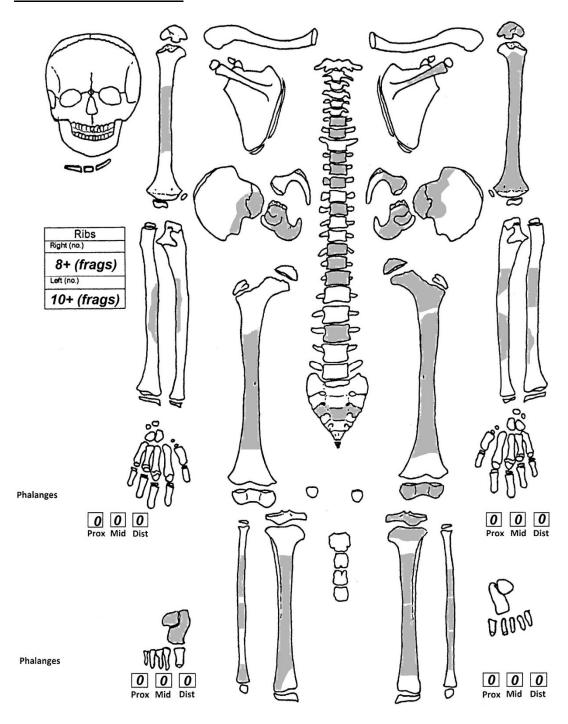


Figure 2: Alveolar reabsorbion on mandible of Skeleton 1

# MRRN22

# **Skeleton 2**

## **Skeletal Element Presence**



## **Tooth Presence**

	Rigi	ht			Lef	Left				
Upper										
	M <sup>2</sup>	$M^1$	С	2	l <sup>1</sup>	I <sup>1</sup>	2	С	$M^1$	$M^2$
Lower	M <sub>2</sub>	M₁	С	2	I <sub>1</sub>	<b>I</b> <sub>1</sub>	2	С	M₁	M <sub>2</sub>

**Chart for Deciduous Tooth Dentition** 

	Rigl	Right									Left						
Upper																	
	M <sup>3</sup>	$M^2$	$M^1$	$P^2$	$P^1$	С	2	I <sup>1</sup>	<b>I</b> <sup>1</sup>	2	С	$P^1$	$P^2$	$M^1$	$M^2$	$M^3$	
Lower	M <sub>3</sub>	M <sub>2</sub>	M₁	P <sub>2</sub>	P₁	С	12	I <sub>1</sub>	I <sub>1</sub>	12	С	P₁	P <sub>2</sub>	M <sub>1</sub>	M <sub>2</sub>	Мз	

#### **Chart for Permanent Dentition**

\ post mortem loss; - tooth present but socket missing; x tooth lost ante mortem; np tooth not present; --- jaw and teeth not present; c caries; b broken tooth; a abscess; e erupting; u unerupted

### **Taphonomy**

### **Erosion Grade of Bone Following McKinley 2004:**

Grade 4: All of bone surface affected by erosive action (in this cases predominantly root activity); general profile maintained and depth of modification not uniform across whole surface

Any bone exhibiting different erosion grades:

Bone	Area	Erosion Grade
Vertebrae	Ventral Bodies	Grade 5

Grade 5: Heavy erosion across whole surface (in this case by root action), completely masking normal surface morphology; with some modification of profile.

### Bleaching, discolouration and burning of bones:

Bone	Area	Observation
All Long Bones	Diaphysis	Brown discolouration caused by soil bleaching

### **Gnawing:** None Present

Bone	Area	Observation

### **Age Determination**

### Tooth Development

Trait	Method	Observations	Age Range
Tooth Development	Hillson 1996	No dentition Present	

Tooth Ageing following Hillson 1996

### **Bone Length**

	Rig	ht	Left		
Bone	Bone Length (mm)	Age	Bone Length (mm)	Age	
Femur	incomplete		incomplete		
Tibia	incomplete		incomplete		
Fibula	incomplete		incomplete		
Humerus	incomplete		incomplete		
Radius	incomplete		incomplete		

Bone Ageing by Length Following Scheurer and Black 2000

### **Bone Fusion**

Stage of Union: U = unobservable; 0 = Open; 1 = partial union; 2 = complete union

Epiphyseal	Fusion		Primary Ossificati	Primary Ossification Centres				
Bone	Epip	hysis	Stage of Union	Bone	Area Of Union	Extent		
Cervical Vertebrae		Superior	U		Ilium-pubis	2		
Cervical vertebrae		Inferior	U	Os Coxae	Ischium-pubis	U		
Thoracic Ve	rtobroo	Superior	2		Ischium-ilium	0		
THOTACIC VE	ertebrae	Inferior	2		1-2	U		
Lumbar Ver	tohrao	Superior	2	Sacral Segments	2-3	0		
Luiiibai vei	lebrae	Inferior	2	Sacrai Segments	3 – 4	0		
		Left	Right		4 - 5	U		
Scapula	Coracoid	U	U	Cervical Vertebrae	9			
Scapula	Acromion	U	U	Neural ard	ches to each other	U		
Clavicle	Sternal	U	U	Neural /	Arches to centrum	U		
	Head	U	u	Thoracic Vertebra	е			
Humerus	Distal	U	2	Neural ard	ches to each other	2		
	Medial Epicondyle	U	2	Neural /	Neural Arches to centrum			
Radius	Proximal	U	U	Lumbar Vertebrae	Lumbar Vertebrae			
Naulus	distal	U	U	Neural ard	ches to each other	2		
Ulna	Proximal	U	U	Neural /	Arches to centrum	2		
Ollia	distal	U	U	Cranium				
	Iliac crest	U	U		ital synchondrosis	U		
Os Coxae	Ischial tuberosity	0	U	Occipital				
Femur	Head	2	U	Late	Lateral part to squama			
	Greater trochanter	0	U		part to lateral part	U		
	Lesser trochanter	0	U					
	distal	U	U					
Tibia	proximal	2	U					
iibia	distal	U	U					
Fibula	proximal	U	U					
i ibula	distal	U	U					

Fusion Status following Buikstra and Uberlaker

### **Sex Assessment**

Visual and metric assessment of sub-adult remains have low accuracy ratings and are therefore not attempted.

## Notes/Observations

Right *linea aspera* is more pronounced than left.

Foramen in distal left humerus ~ possibly taphonomic



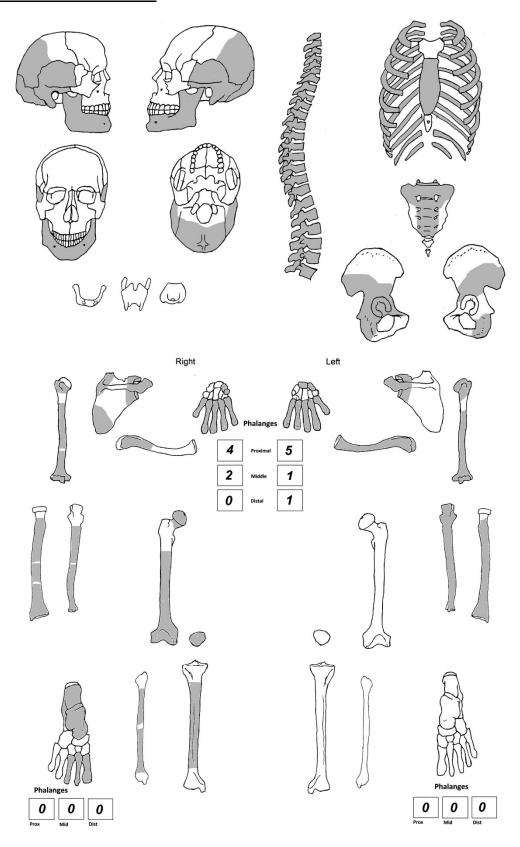
Figure 4: Skeletal presence of Skeleton 2



Figure 3: Possible foramen in right humerus of skeleton 2

# MRRN22 Skeleton 3

# **Skeletal Element Presence**



### **Tooth Presence**

	Rigi	ht							Left	t						
Upper																
	M <sup>3</sup>	M <sup>2</sup>	M <sup>1</sup>	P <sup>2</sup>	P <sup>1</sup>	С	l <sup>2</sup>	l <sup>1</sup>	[1	<b>l</b> <sup>2</sup>	С	$P^1$	P <sup>2</sup>	M¹	M <sup>2</sup>	$M^3$
Lower	M <sub>3</sub>	$M_2$	M₁	$P_2$	P₁	С	2	1	I <sub>1</sub>	2	С	P₁	$P_2$	M <sub>1</sub>	$M_2$	Mз
	X	X	X	np	np	np	X	X	x	X	np	np	np	X	Х	X

\ post mortem loss; - tooth present but socket missing; x tooth lost ante mortem; np tooth not present; --- jaw and teeth not present; c caries; b broken tooth; a abscess; e erupting; u unerupted

### **Taphonomy**

### **Erosion Grade of Bone Following McKinley 2004:**

Grade 4: All of bone surface affected by erosive action (predominantly root activity); general profile maintained and depth of modification not uniform across whole surface

Any bone exhibiting different erosion grades:

Bone	Area	Erosion Grade
Right Tibia, Tarsals and	All	Grade 5
Metatarsals		

Grade 5: Heavy erosion (by root action) across whole surface, completely masking normal surface morphology, with some modification of profile.

Bleaching, discolouration and burning of bones: None Observed

Bone	Area	Observation

**Gnawing: None Observed** 

Bone	Area	Observation

### **Age Determination**

Skeletal Region	Method	Observations	Phase/stag	Inference
			e	
Medial clavicle	Scheuer and Black 2000	Full fusion of ephysis	Stage 4	Over 24
Sacrum	Scheuer and Black 2000	Full closure between all sacral bodies	Full Fusion	Over 27
Jugular growth plate	Maat and Mastwijk 1995	unobservable		
Pubic symphysis	Brooks and Suchey 1990	Surface is damaged		
Auricular surface	Lovejoy et al 1985	Bit worn, but observable	Stage J	40-44 years
Sternal ends of ribs	Iscan et al 1985	Ends not observable		
Mineralisation of 3rd molar	Hillson 1996	Unobservable due to alveolar remodeling		
Dental Attrition	Brothwell 1981	Most mandibular teeth are ante mortem losses with	Senior Adult	Over 45 years

alveolar reab	sorbion
---------------	---------

### **Sex Assessment**

### <u>Pelvis</u>

	Trait Scores		Score	Sex Prob	ability
Ventral Arc	Subpubic Contour	Medial Aspect	Using Positive Weights	<b>PP</b> Female	PP Male
unobservable	unobservable	unobservable			

Pubic Traits following Phenice 1969, Walker 2008 and Klales et al 2012/

### <u>Skull</u>

Trait		Score
Nuchal Crest (1-5)	Unobservable	
Glabella (1-5)	Bone is absent	
	Left	Right
Mastoid Process (1-5)	1	1
Supraorbital Margin (1-5)	Bone is absent	Bone is absent

Skull sexing traits following Buikstra and Uberlaker 1994.

### **Mandible**

Trait	Observation
Overall Size	small
Width of Ascending Ramus	unobservable
Flaring of Gonial Angle	unobservable
Shape of Chin	pointed

Mandible sexing traits following Brickley 2004

### **Stature Estimation**

Bone	Length (cms)	Stature Estimate
Humerus	incomplete	
Radius	Incomplete	
Ulna	24.5	162cm +/- 4.30
Femur	Incomplete	
Tibia	Incomplete	
Femur + Tibia	Incomplete	
Humerus + Tibia	Incomplete	
Humerus + Femur + Tibia	incomplete	

Stature estimation after Trotter and Gleser equations for white females (1958)

### <u>Notes</u>

- Possible osteoarthritis skirting of vertebral bodies and possible ebernation of right femoral head, also left hand distal phalanx has marginal lipping (root damage obscures surface pathology observation)
- Overall appearance of bones is slender.



Figure 5:Skeletal presence of Skeleton 3.



Figure 6:Alveolar regrowth after tooth loss in Skeleton mandible.

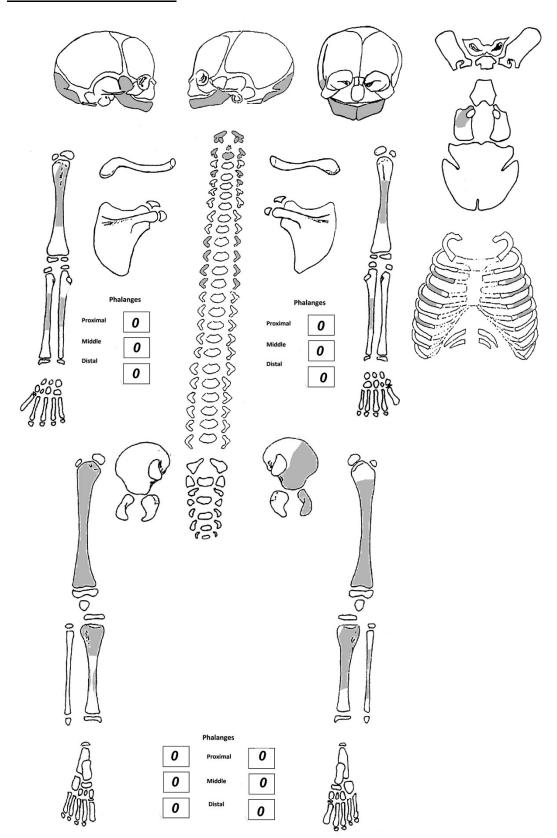


Figure 7:Possible osteoarthritis detected in Skeleton 3.

# **Site Code: MRRN22**

# Skeleton 4

## **Skeletal Element Presence**



### **Tooth Presence**

	Right				Left					
Upper										
	M <sup>2</sup>	$M^1$	С	2	<b>1</b> 1	I <sup>1</sup>	2	С	$M^1$	$M^2$
Lower	M <sub>2</sub>	M₁	С	12	11	I <sub>1</sub>	12	С	M₁	M <sub>2</sub>
	р	р	р	С	р	р	р	р	р	р

	Right			Left		
	M²	M¹	<b>]</b> 2	<b>I</b> <sup>2</sup>	M¹	M <sup>2</sup>
ľ	M <sub>2</sub>	M <sub>1</sub>	<b>1</b> <sub>2</sub>	I <sub>2</sub>	M <sub>1</sub>	M <sub>2</sub>
L	су	р	су	су	р	су

**Chart for Deciduous Tooth Presence** 

**Chart for Permanent Tooth Presence** 

P present; \ post mortem loss; - tooth present but socket missing; x tooth lost ante mortem; np tooth not present; --- jaw and teeth not present; c caries; b broken tooth; a abscess; e erupting; u unerupted; cy visible in crypt

Location	Tooth	Moorrees et al. Formation Stage	Uberlaker Age Estimate
Right	Second Incisor	CR 3/4	
Mandibular	Second Molar	CR 1/2	6 Veers + 24 Menths
Left	Second Incisor	CR 3/4	6 Years ± 24 Months
Mandibular	Second Molar	CR 1/2	

Mineralisation stages of permanent dentition visible in crypt.

### **Taphonomy**

**Erosion Grade of Bone Following McKinley 2004:** 

Grade 4: All of bone surface affected by erosive action (in this cases predominantly root activity); general profile maintained and depth of modification not uniform across whole surface

Any bone exhibiting different erosion grades:

Bone	Area	Erosion Grade
Mandible	Anterior	Grade 2
Atlas	All	Grade 2

Grade 2: More extensive surface erosion (by root action) than grade 1 with deeper surface penetration

Bleaching, discolouration and burning of bones: None Observed

Bone	Area	Observation

**Gnawing: None Observed** 

Bone	Area	Observation

### **Age Determination**

### Tooth Development

Trait	Method	Observations	Age Range
Tooth Development	Uberlaker 1994	method is the best fit (no radiographs)	6 years ± 24 Months

Tooth Ageing following those detailed in Hillson 1996

### Bone Length

	Right		Left	
Bone	Bone Length (mm)	Age	Bone Length (mm)	Age
Femur	incomplete		Incomplete	
Tibia	Incomplete		Incomplete	
Fibula	Incomplete		Incomplete	
Humerus	Incomplete		Incomplete	
Radius	incomplete		incomplete	

Bone Ageing by Length Following Buikstra and Uberlaker 1994

### **Bone Fusion**

Stage of Union: U = unobservable; 0 = Open; 1 = partial union; 2 = complete union

Epiphyseal	Fusion			Primary Ossificati	Primary Ossification Centres				
Bone	Epip	hysis	Stage of Union	Bone	Area Of Union	Extent			
Cervical Ve	rtobrao	Superior	U		Ilium-pubis	0			
Cervicai ve	itebiae	Inferior	U	Os Coxae	Ischium-pubis	U			
Thoracic Ve	rtobrao	Superior	U		Ischium-ilium	U			
THOTACIC VE	ertebrae	Inferior	U		1-2	U			
Lumbar Ver	tobrao	Superior	U	Sacral Segments	2 – 3	U			
Luiiibai vei	teniae	Inferior	U	Sacrai Segments	3 – 4	U			
		Left	Right		4 - 5	U			
Scapula	Coracoid	U	U	Cervical Vertebrae					
-	Acromion	U	U	Neural arc	thes to each other	U			
Clavicle	Sternal	U	U		Arches to centrum	U			
	Head	U	U	Thoracic Vertebra	Thoracic Vertebrae				
Humerus	Distal	U	U	Neural ard	hes to each other	2			
Hamoras	Medial Epicondyle	U	U		Arches to centrum	U			
Radius	Proximal	U	U	Lumbar Vertebrae					
Raulus	distal	U	U	Neural arc	hes to each other	U			
Ulna	Proximal	U	U	Neural /	Arches to centrum	U			
Ullia	distal	U	U	Cranium					
	Iliac crest	U	U	Spheno-occip	ital synchondrosis	U			
Os Coxae	Ischial tuberosity	U	U	Occipita <b>l</b>					
Femur	Head	U	0	Late	al part to squama	U			
	Greater trochanter	U	U	Basilar	Basilar part to lateral part				
	Lesser trochanter	U	U			Į.			
	distal		U						
Tibia	proximal	0	U						
IIDIA	distal	U	U						
proximal		U	U						
Fibula distal		U	U						

Fusion Status following Buikstra and Uberlaker

## **Sex Assessment**

Visual and metric assessment of sub-adult remains have low accuracy ratings and are therefore not attempted.



Figure 8: Skeletal Presence of Skeleton 4.

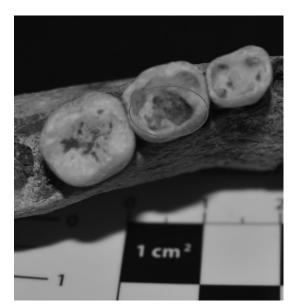
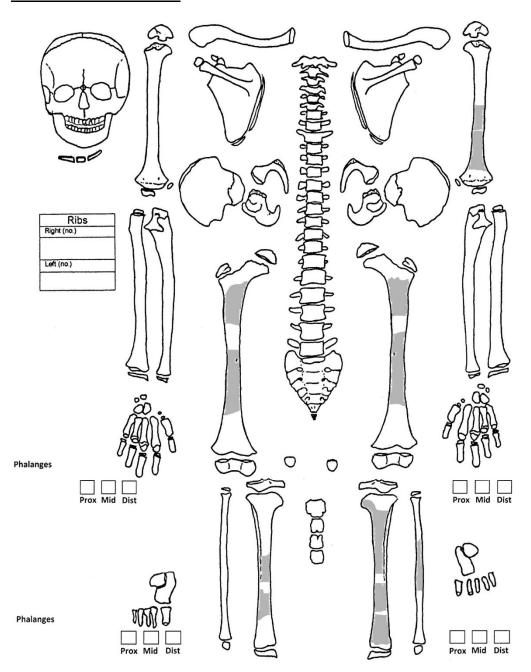


Figure 9: Dental caries on right mandibular second decidious molar, Skeleton 4.

## **Skeletal Element Presence**



## **Tooth Presence**

	Right						Left			
Upper										
	M <sup>2</sup>	$M^1$	С	<sup>2</sup>	<b>I</b> 1	<b>I</b> <sup>1</sup>	<b>1</b> 2	С	$M^1$	$M^2$
Lower	M <sub>2</sub>	M <sub>1</sub>	С	2	11	I <sub>1</sub>	<b>l</b> <sub>2</sub>	С	M <sub>1</sub>	M <sub>2</sub>

**Chart for Deciduous Tooth Dentition** 

	Right						Left									
Upper																
	M <sup>3</sup>	$M^2$	$M^1$	$P^2$	$P^1$	С	<b>1</b> 2	I <sup>1</sup>	<b>I</b> 1	2	С	$P^1$	$P^2$	$M^1$	$M^2$	$M^3$
Lower	M <sub>3</sub>	M <sub>2</sub>	M₁	P <sub>2</sub>	P <sub>1</sub>	С	12	I <sub>1</sub>	I <sub>1</sub>	12	С	P₁	P <sub>2</sub>	M <sub>1</sub>	M <sub>2</sub>	M <sub>3</sub>

### **Chart for Permanent Dentition**

\ post mortem loss; - tooth present but socket missing; x tooth lost ante mortem; np tooth not present; --- jaw and teeth not present; c caries; b broken tooth; a abscess; e erupting; u unerupted

### **Taphonomy**

### **Erosion Grade of Bone Following McKinley 2004:**

Grade 5: Heavy erosion (in this case by root action) across whole surface, completely masking normal surface morphology, with some modification of profile.

Any bone exhibiting different erosion grades: All bones present are Grade 5

Bone	Area	Erosion Grade

### Bleaching, discolouration and burning of bones:

Bone	Area	Observation				
Tibia (Left and Right) Diaphysis		Pitting and dark brown discolouration due to soil				
		erosion.				

### **Gnawing: None present**

Bone	Area	Observation

### **Age Determination**

### Tooth Development No teeth present

Trait	Method	Observations	Age Range
Tooth Development	Hillson 1996		

Tooth Ageing following Hillson 1996

### Bone Length

	Rig	ht	Left		
Bone	Bone Length (mm)	Bone Length (mm)   Age		Age	
Femur	incomplete		Incomplete		
Tibia	Incomplete	Incomplete			
Fibula	Incomplete		Incomplete		
Humerus	incomplete	incomplete			
Radius	incomplete		incomplete		

Bone Ageing by Length Following Scheurer and Black 2000

### **Bone Fusion** no areas of fusion are present

Stage of Union: blank = unobservable; 0 = Open; 1 = partial union; 2 = complete union

<b>Epiphyseal</b>	Fusion			Primary Ossificati	Primary Ossification Centres				
Bone	Epip	hysis	Stage of Union	Bone	Area Of Union	Extent			
Cervical Ve	rtobroo	Superior			Ilium-pubis				
Cervical ve	rtebrae	Inferior		Os Coxae	Ischium-pubis				
Thoracic Ve	rtobroo	Superior			Ischium-ilium				
THOTACIC VE	ertebrae	Inferior			1-2				
Lumbar Vertebrae		Superior		Sacral Segments	2 – 3				
Luiiibai vei	lebrae	Inferior		Sacial Segments	3 – 4				
		Left	Right		4 - 5				
Sagnula	Coracoid			Cervical Vertebrae	•				
Scapula	Acromion			Neural arc	hes to each other				
Clavicle	Sternal			Neural /	Arches to centrum				
	Head			Thoracic Vertebra	е				
Humerus	Distal			Neural arches to each oth Neural Arches to centru					
	Medial Epicondyle								
Radius	Proximal			Lumbar Vertebrae	Lumbar Vertebrae				
Radius	distal			Neural arc	hes to each other				
Ulna	Proximal			Neural /	Arches to centrum				
Ullia	distal			Cranium					
	Iliac crest			Spheno-occip	ital synchondrosis				
Os Coxae	Ischial			Occipital	•				
	tuberosity								
Femur	Head			Late	ral part to squama				
	Greater			·					
	trochanter			Dasilal	Basilar part to lateral part				
	Lesser								
	trochanter								
	distal								
Tibia	proximal								
	distal								
Fibula proximal									
distal									

| distal | Fusion Status following Buikstra and Uberlaker

### **Sex Assessment**

Visual and metric assessment of sub-adult remains have low accuracy ratings and are therefore not attempted.

### <u>Notes</u>

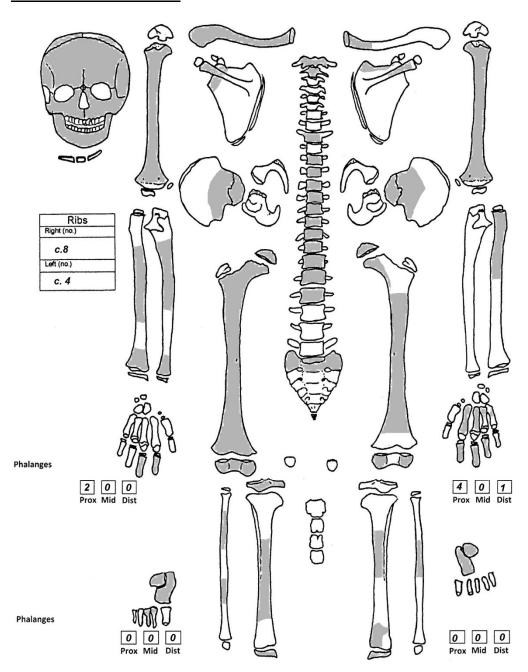
Only long bone and long bone fragments are present, none are complete enough to measure but it is obvious from visual size that these are juvenile remains.



Figure 10: Skeletal Presence of Skeleton 5.

# MRRN22 Skeleton 6

## **Skeletal Element Presence**



## **Tooth Presence**

	Righ	nt							Le	ft						
Upper	u	-	-	-	-	-	-	-	-	-	-	-	-	-	-	u
	M <sup>3</sup>	$M^2$	M¹	$P^2$	$P^1$	С	2	I <sup>1</sup>	I <sup>1</sup>	2	С	$P^1$	$P^2$	Μ¹	$M^2$	$M^3$
Lower	M <sub>3</sub>	$M_2$	M <sub>1</sub>	P <sub>2</sub>	P₁	С	2	<b>I</b> <sub>1</sub>	I <sub>1</sub>	2	С	P₁	P <sub>2</sub>	M <sub>1</sub>	M <sub>2</sub>	M <sub>3</sub>
	u	р	р	р	р	р	р	р	р	р	р	р	р	р	р	u

**Chart for Permanent Dentition** 

**p** tooth in-situ; \ post mortem loss; - tooth present but socket missing; **x** tooth lost ante mortem; **np** tooth not present; --- jaw and teeth not present; **c** caries; **b** broken tooth; **a** abscess; **e** erupting; **u** unerupted

### **Taphonomy**

### **Erosion Grade of Bone Following McKinley 2004:**

Grade 3: Most of bone surface affected by some degree of erosion (by root action); general morphology maintained but detail of parts of surface masked by erosive action

Any bone exhibiting different erosion grades:

Bone	Area	Erosion Grade
Vertebrae	Bodies	Grade 5

Grade 5: Heavy erosion (in this case by root action) across whole surface, completely masking normal surface morphology, with some modification of profile.

Bleaching, discolouration and burning of bones:

Bone Area		Observation			
Arms (All Bones)	All	Appear almost white in colour			
Left Leg (All bones)	All	Appear almost white in colour			

**Gnawing: None Present** 

Bone	Area	Observation

### **Age Determination**

### Tooth Development

Trait	Method	Observations	Age Range
Tooth Development	Uberlaker 1994	1 <sup>st</sup> and 2 <sup>nd</sup> Molars in Wear and M3 erupting	15 Years ± 30
			Months

Tooth Ageing following Hillson 1996

### Bone Length

	Rig	Right		Left		
Bone	Bone Length (mm)	Age	Bone Length (mm)	Age		
Femur	incomplete		incomplete			
Tibia	incomplete		incomplete			
Fibula	incomplete		incomplete			
Humerus	incomplete		incomplete			
Radius	incomplete		incomplete			

Bone Ageing by Length Following Scheurer and Black 2000

## **Bone Fusion**

Stage of Union: U = unobservable; 0 = Open; 1 = partial union; 2 = complete union

Epiphyseal Fusion				Primary Ossificati	Primary Ossification Centres			
Bone	Epip	Epiphysis Stage of Union Bone Area Of Union		Extent				
Cervical Vertebrae		Superior	0		Ilium-pubis	0		
		Inferior	0	Os Coxae	Ischium-pubis	U		
Thoracic Vertebrae		Superior	0		Ischium-ilium	0		
		Inferior	0		1-2	0		
Lumbar Vertebrae		Superior	0	Sacral Segments	2 – 3	U		
Luiiibai vei	tebrae	Inferior	0	Sacral Segments	3 – 4	C		
		Left	Right		4 - 5	C		
Sagnula	Coracoid	U	U	Cervical Vertebrae	Cervical Vertebrae			
Scapula	Acromion	U	U	Neural arc	Neural arches to each other			
Clavicle	Sternal	U	U	Neural /	Neural Arches to centrum			
Humerus	Head	U	U	Thoracic Vertebra	Thoracic Vertebrae			
	Distal	2	U	Neural ard	Neural arches to each other			
	Medial Epicondyle	U	U	Neural /	Neural Arches to centrum			
D. III	Proximal	U	U	Lumbar Vertebrae	Lumbar Vertebrae			
Radius	distal	U	U	Neural arc	Neural arches to each other			
Ulna	Proximal	U	U	Neural /	Neural Arches to centrum			
Ullia	distal	U	U	Cranium	Cranium			
	Iliac crest	U	U	Spheno-occip	Spheno-occipital synchondrosis			
Os Coxae	Ischial tuberosity	U	U	Occipital				
Femur	Head	0	0	Late	Lateral part to squama			
	Greater trochanter	0	0		part to lateral part	U		
	Lesser trochanter	0	0					
	distal	0	0					
Tibia	proximal	U	0					
	distal	0	0					
Fibula	proximal	U	U					
	distal	U	U					

distal U

Fusion Status following Buikstra and Uberlaker

### **Sex Assessment**

Visual and metric assessment of sub-adult remains have low accuracy ratings and are therefore not attempted



Figure 11: Skeletal Presence of Skeleton 6.