

*KHIRBET ES-SAMRĀ
CEMETERY IN JORDAN:
DOCUMENTATION IN A
SMALL TEAM PROJECT*

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**Khirbet es-Samrā
in
North Jordan**



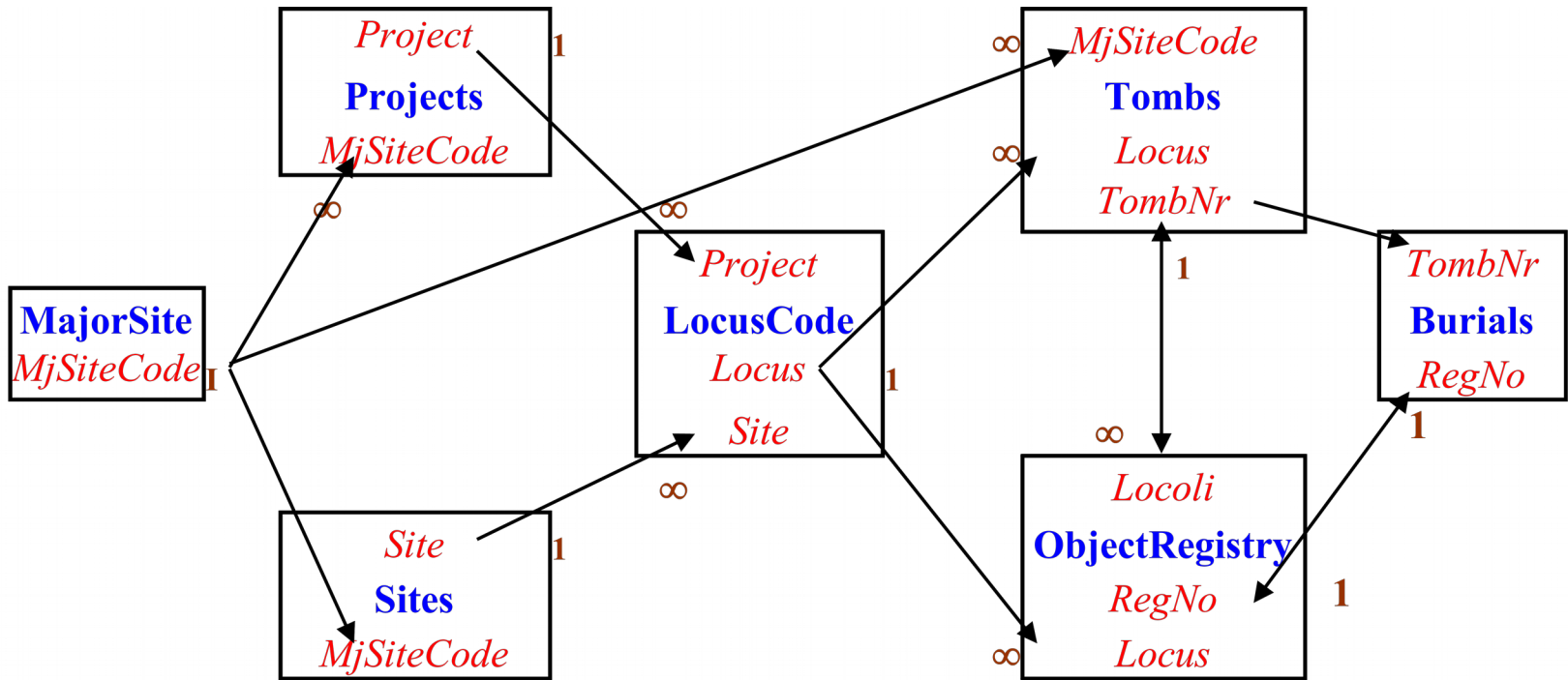
Excavated Site

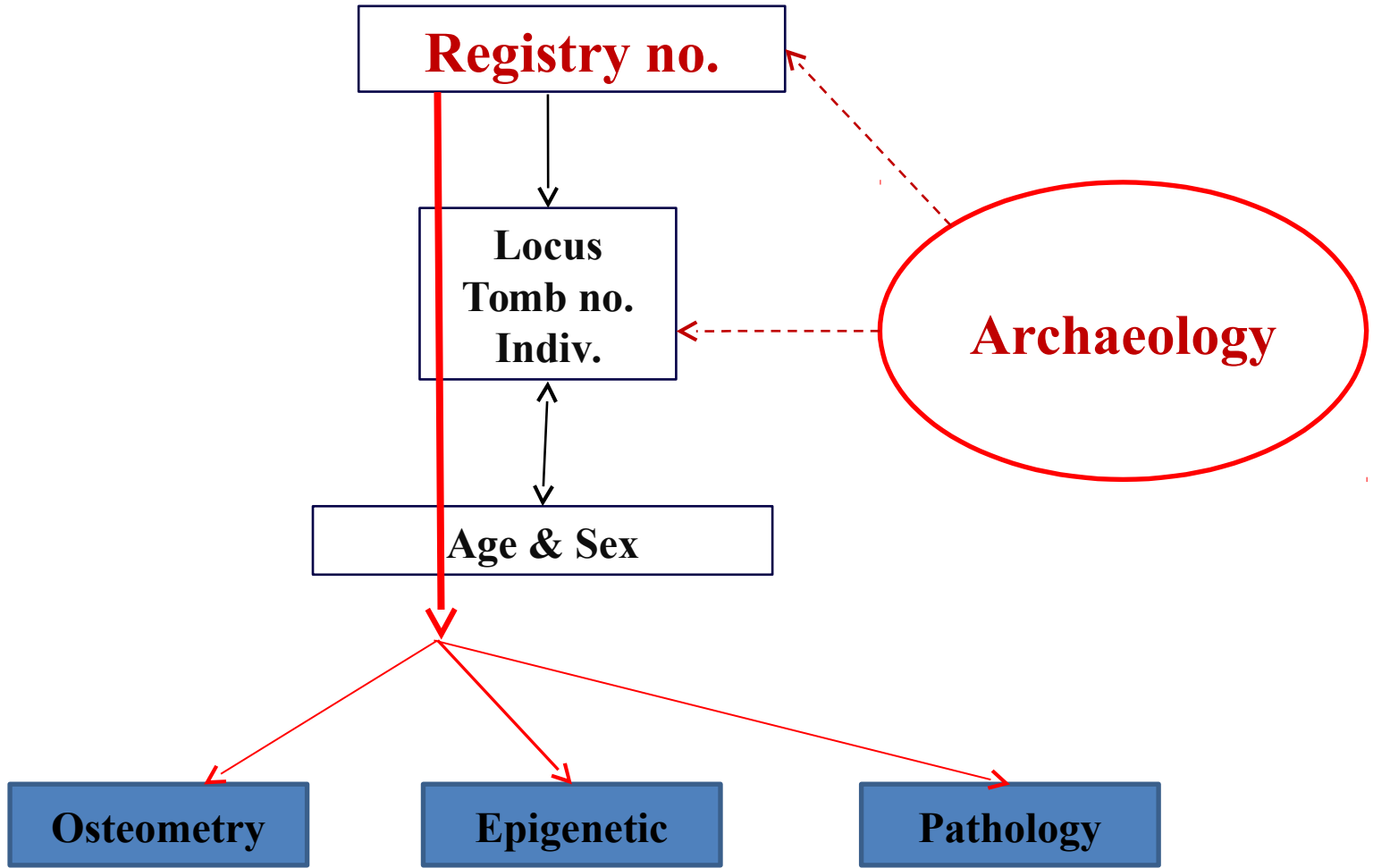


Tombs

KS Data

Main database Structure





OSTEOLOGICAL DATA RELATIONSHIPS

Documentation of KS-Skeletal Material

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graph TD; A[Documentation of KS-Skeletal Material] --> B[Written Forms]; B --> C[Electronic in Four linked Database Files: 1-Data tables, 2- Forms, Queries and Modules, 3- Pathology, 4- Pictures];
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Written Forms

Electronic in Four linked Database Files:

1-Data tables

2- Forms, Queries and Modules

3- Pathology

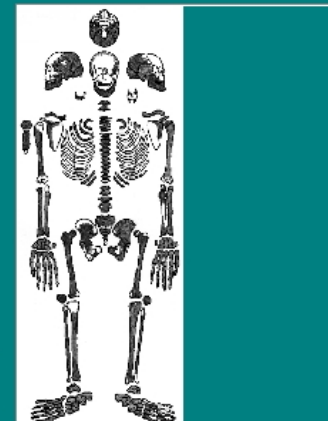
4- Pictures

Khirbet es-Samra Cemetery Project

Objects Registry

Registry No.

KS-0189



Project: **KS-97**

Site: **Site C**

Locus Code: **KS97-04-C-A4**

Locality: **Tomb-230**

Found in:

Material: **OS**

Category: **HB**

Count: **1**

Date: **29.10.97**

Object Description: Human Bones

Short Details: Human Bones

Storage: Kh. Samra

Submitted to DAJ:

Submitted on: Kh. Samra

By:

Drawing?

Picture?

Restoration:

Documentation: In Process

Notes: prev. S.4582 -DEL

Add Entry



Burials - Human Bone

Tomb No.: **Tomb-1**

Locus : **KS93-01-A-11**

Registry No.: **KS-1026**

Indiv. **I**

Age: **12-24m.**

Sex: **?**

Bone Condition: **Fragile and deteriorated**

Burial Position:

Storage:

Notes: **S.3630 ; ;Pathology analysis with Dr. Schultz.**

Age Estimation

Sex Determination



Anthropometry



Epigenetics



PalaeopathAnaly



AgeEstimation : Form

Age Estimation

Registry No. **KS-1043**
 Tomb-Ch94, Indiv.-III, Locus-S.8.94.17

Cranial Sutures: sub adult

Dentition: sub adult: deciduous present. IJ: i1, i2, c1 non erupted I1 and I2 perm. On both jaws m1 and m2 from both suggest age <6 years.

Teeth Wear: non- subadult

Pelvis: ossification of pelvis indicate age <10y.

Upper Extremities: All epiphyseal parts unfused.

Lower Extremities: All epiphyseal parts unfused.

Other Traits: synostosis of the vertebrae indicate age 4-6 years (fusion of lumbar vertebrae started).

Age Notes:

AGE 4-6 years

Sex Determination

Record: 133 of 136

SexDetermination : Form

Sex Determination

Registry No. **KS-1042**
 Tomb-Ch94, Indiv.-II, Locus-S.8.94.17

Cranial traits: Prom. Glabella and super ciliar arc. Blunt orbital edge and semi quadratic orbita, robust occipital part and well expressed I nuchae. Medium long proc. Mastoid. Robust dorsal profile and long frontal profile, strong temporal lines. Robust IJ. Male

Pelvis traits: ischiopubic index: 88%, rel. Broad gr. Sciatic notch greater subpubic angle, broad ischiopubic ramus. Male

PostCranial: robust

Other Traits:

Sex Notes: pelvic traits tend to be less male features but other traits suggest evidence for male sex

Sex MALE

Age Estimation

Record: 132 of 136

Anthropometry

Registry No. **KS-1034**

Tomb-22 Individ.: **I**

Locus: **KS93-01-A-34**

Age: **12-15y.**

Sex: **?**

Craniometry

Upper Post Cranial

Lower Post-Cranial

Cranial Indecies

Post-Cranial Indecies



Cranio-metric Measurements

Locuscode:	Tomb:	Indiv.:	Registry No.:
(1) g-op		(40) ba-pr	
(2) g-i		(43) fmf-fmf	
(2a) n-i		(44) ek-ek	
(3) g-l		(45) zy-zy	
(5) n-ba		(45-3) zo-zo	
(6) ba-sphba		(46) zm-zm	
(6a) ba-ho		(47) nr-gn	
(7) ba-o		(48) nr-pr	
(8) eu-eu		(49) la-la	
(9) fr-fr		(50) mfr-mfr	
(10) co-co		(51) mfr-ek	
(11) au-au		(54) Nasal Br.	
(12) ast-ast		(55) nr-nr	
(13) ms-ms		(60) pr-alv	
(14) it-it		(61) ekm-ekm	
(16) Foramen Magnum Breadth		(62) ol-sta	
(17) ba-b		(63) enm-enm	
(18) ba-Max. cranial height		(65) kdl-kdl	
(25) nr-o		(66) go-go	
(26) nr-b		(67) ml-ml	
(27) b-l		(69) id-gn	
(28) l-o		(70) go- Caput Mandibulare	
(29) nr-b		(70a) Ramus Height	
(30) b-l		(71) Minimum Ramus Width	
(31) l-o		Cranial Index	

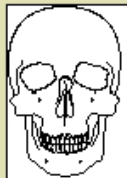
Remarks:

Date: _____

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Osteometric Measurements of the Post-Cranial Parts

Locuscode:	Tomb:	Indiv.:	Registry No.:		
Upper Post-Cranial Bones	R	L	Lower Post-Cranial Bones	R	L
Sternum			Pelvis		
(1) Sternum Length			(1) Maximum Length		
(2) Manubrium Length			(2) Maximum Breadth		
Clavicula			(22) Max. Acetabulum Breadth		
(1) Maximum Length			Femur		
(4) Vertical Mid-shaft diam.			(1) Maximum Length		
(5) Sagittal Mid-shaft diam.			(2) Physiological Length		
(7) Sternal Facet Length			(4) Trochanter Length		
Scapula (Os pectorales)			(5) Diaphysis Length		
(1) Maximum Length			(6) Ant-Post. Mid-shaft diam.		
(2) Total Breadth			(7) Med-Lat. Mid-shaft diam.		
(3) Axillary Boarder Length			(8) Mid-shaft Circumference		
(7) Scapular Spine Length			(9) Subtrochanter Transv. diam.		
(12) Glenoid Height			(13) Upper Epiphyseal Length		
(13) Glenoid Fossa Transv. diam.			(15) Vertical Neck diam.		
Humerus			(16) Ant-post. Neck diam.		
(1) Maximum Length			(18) Med-lat. Head diam.		
(2) Total Length			(19) Transverse Head diam.		
(3) Proximal Epiphysis Br.			(21) Bicondylar Width		
(4) Bt-Epicondylar Breadth			Patella		
(5) Maximum Mid-shaft diam.			(1) Maximum Length		
(6) Minimum Mid-shaft diam.			(2) Maximum Breadth		
(9) Transverse Head diam.			(3) Maximum Thickness		
(10) Longitudinaal Head diam.			Tibia		
Radius			(1) Maximum Length		
(1) Maximum Length			(2) Physiological Length		
(2) Physiological Length			(3) Bicondylar Breadth		
(4) Max. Transv. Shaft diam.			(6) Dist. Epiphysis Transv. diam.		
(4-1) Transverse Head diam.			(8) Mid-shaft Sagittal diam.		
(4-2) Transverse Neck diam.			(8a) Mid-sh. Sagit. diam. (For. N)		
(5) Min. Sagittal Shaft diam.			(9) Transverse Mid-shaft diam.		
(5-6) Distal Max. Epiphys. Diam.			(9a) Transv. Mid-shaft diam. (For. N)		
(5-6) Distal Max. Epiphys. Diam.			(10) Mid-shaft Circumference		
Ulna			Fibula		
(1) Maximum Length			(1) Maximum Length		
(2) Physiological Length			(2) Maximum Mid-shaft diam.		
(6) Olecranon Breadth			(3) Minimum Mid-shaft diam.		
(11) Doso-ventral Shaft diam.					
(12) Transverse Shaft diam.					



Craniometry

Registry No. **KS-1044**

Age: 45-50years

Sex: MALE

Tomb-Ch94

Indiv. **IV**

Locus:

S.8.94.17

(1) g-op: 190

(2) g-i: 184

(2a) n-i: 180

(3) g-l: 182

(5) n-ba: 100

(6) ba-sphba: 26

(6a) ba-ho:

(7) ba-o: 37

(8) eu-eu: 130

(9) ft-ft: 95

(10) co-co: 115

(11) au-au: 121

(12) ast-ast: 107

(13) ms-ms: 116

(14) it-it: 77

(16) Fo Magn Br: 31

(17) ba- b: 129

(18) ba- max. ht: 135

(25) n-o: 390

(26) n-b: 120

(27) b-l: 139

(28) l-o: 131

(29) n-b: 106

(30) b-l: 119

(31) l-o: 99

(40) ba-pr:

(43) fmt-fmt: 100

(44) ek-ek:

(45) zy-zy:

(45-3) zo-zo: 135

(46) zm-zm:

(47) n-gn:

(48) n-pr:

(49) la-la:

(50) mf-mf:

(51) mf-ek:

(54) Nasal Br.:

(55) n-ns:

(60) pr-alv:

(61) ekm-ekm:

(62) ol-sta: 39

(63) enm-enm: 35

(65) kdl-kdl:

(66) go-go:

(67) ml-ml: 44

(69) id-gn: 30

(70) go- Capt Mand: 60

(70a) Ramus Ht: 68

(71) Min RamusWd:

Cranial Indicies



Anthropometry: Upper Extremities

Registry No. **KS-0172**

Tomb-258 , Indiv.-I

Sternum:

(1) Max L. (2) Manubrium L.

Clavicula:

R**L**(1) Max L. (4) Midshaft d. (5) Sagt. Midshaft d. (7) Sternal Facet L.

Scapula:

(1) Max. Length (2) Max. Br (3) Axillary Board L. (7) Spine Length (12) Glenoid Ht. (13) Trv. Glen Fos. d.

Humerus:

R**L**(1) Max. L. (2) Total L. (3) Prox. Epiph. br. (4) Bi-Epicond. br. (5) Max. Midshaft d. (6) Min. Midshaft d. (9) Transv. Head d. (10) Longt. Head d. (1) Metacarpal I Ln.

Radius:

R**L**(1) Max. L. (2) Physiol. L. (4) Max. Tr. Shaft d. (4-2) Transv. Neck d. (4-1) Transv. Head d. (5) Min. Sag. Shaft d. (5-6) Dist. Epiph. Br.

Ulna:

(1) Max. L. (2) Physiologic L. (6) Olecranon br. (11) Drs-vnt. Shaft d. (12) Transv. Shaft d.

Lower Extremities



Post Cranial Indecies

Registry No.

KS-1045
Tomb-Ch94 , Indiv.-VI
Claviculo-humeral Index::
Scapular Index:
Scapula Margin Index:
Humerus Diaphyse Q. Ind.:
Humeral caput diam. L:
Radial Diaph. Quer. Ind.:
Radio-Humeral Index:
Ulna Diaph. Quer. Ind.:
Ulnar Langen Index:
Ulnar-Humeral Index:
Pelvic Br.Hoeh. Index:
Femor Robust. Index:
Femor Middiaph. Q. Ind.:
Fem. Caput Robust. L:
Femor Caput Quer. L:
Patella Hoh. Br. L:
Patella Br. Index::
Tibia mid Quer. Index:
Tibia cnemicus Index:
Fibular Quer. Index:
Femor-Tibial Index:
Femor-Humeral Index:
Intermembral Index:
Tibio-Radial Index:


Sex m Age

Average-Age

Storage Box

Condition:

Fast komplett, lediglich bei den Fußknochen fehlt etwa ein Drittel.
Ausgezeichneter Erhaltungszustand mit einem Condition-Score von 1,53 für das gesamte Skelett.

Status:

Endoskopie Schädel. Röntgen re. Humerus und rechte Scapula sowie linke Clavicula. Wirklich linke (nicht rechte?) Clavicula frakturiert? Rö. Tibiae (Harris Lines?).

Zusammenfassung:

Epigenetik

Die Wirbelsäule besteht konstitutionell aus 7 HWK, 11 BWK, 6 LWK und 5 Sakrumsegmenten. Passend zu der numerischen Aberration hat Th 10 konstitutionell keine Fovea costalis transversalis, die 10. Rippe bds. entsprechend kein Tuberkel. L1 trägt Rippen, jedoch sind die 12. Rippen Stummelrippen.

Als weitere Nomvariante ist der Processus articularis superior an C1 angedeutet geteilt. An C5 ist das rechte Foramen transversarium asymmetrisch inkomplett geteilt.

Pathologie

1. Ausgedehnter Zahnsteinbefall, der zu Parodontitis und leichter Parodontose geführt hat. Am Palatinum vor allem rechtsseitig eine vermehrte Porosität und Knochenneubildung im Sinne einer chronischen Gingivitis.
 2. Fortgeschrittene kariöse Läsionen an 3 Zähnen, die an 2 Zähnen zur Eröffnung des Alveolarkanals mit apikalem Abszess geführt hat.
 3. Geringe Schmelzhypoplasie an allen Incisoren und Canini.
 4. Abrasion maximal Grad 4 an M1.
 5. Zustand nach vorderer Schulterluxation rechts mit Dislozierung des Humeruskopfes nach ventro-caudal und Bildung einer neuen Gelenkpfanne an der Scapula unterhalb des Coracoids. An der Dorsalseite des Humeruskopfes hat sich eine neue Gelenkfläche gebildet. Der rechte Humeruskopf ist deformiert: Das Tuberculum majus ist nach caudal und lateral disloziert, passend zu Abrissfraktur im Rahmen des Traumas, das zur Schulterluxation geführt hat. Der rechte Arm ist nicht atrophiert, so dass er nach Luxation weiter in Gebrauch war.
 6. Alte, mit geringer Achsabweichung verheilte Claviculafraktur in Schaftmitte links, die mit der Schulterluxation in Verbindung stehen kann, aber nicht muss.
 7. Nur geringe degenerative Veränderungen an beiden Kniegelenken, beiden Femoropatellargelenken und beiden Hüftgelenken sowie mäßige Spondylose und Spondylarthrose an der mittleren BWS. Nur minimale degenerative Veränderungen an den Costovertebralgelenken 10 und 11 bds.
 8. Schmorlsche Knoten an der Grundplatte Th7-9, an Grund- und Deckplatte von Th10, Th11 und L1 sowie an der Deckplatte L2-5 und S1.
 9. Teilverknöcherung des Lig. Flavum an Th2-4, Th6, Th8-11 und L1.
- Sonstiges

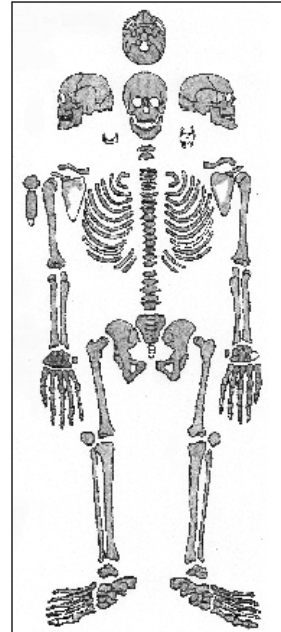
Die ausgeprägte Protuberantia occipitalis und Enthesopathien (am Olecranon rechts, beiden Patellae ventro-cranial sowie als rarefizierende Fibroostose am Ansatz des Lig. Costoclaviculare links) sprechen für einen muskulösen Mann mit aktiver Lebensweise.

Eine Todesursache ist am vorliegenden Material nicht erkennbar.

Storage geprüft?

Unters.-Dat. 20.9.12

Reexamination

Bericht ausgearbeitet? 

Schädel

Zähne

Vert-Epi

Vertebra

Rippen

Beurt-LB

Longbones

Joints

Hand

Hand (Gelenke)

Fuß

Fuß (Gelenke)

Schädel

Reg-No. Tomb-No. Individ. Site

Kalotte: cond. % vorhanden

Lamina externa

eval.

Lamina interna

eval.

Sinus frontalis

R L

cond.

eval.

Os nasale

R L

cond.

eval.

Orbita

R L

cond.

eval.

Mastoid

R L

cond.

eval.

Meatus acusticus ext.

R L

cond.

eval.

Basis: cond. % vorhanden eval.

Maxilla: cond. % vorhanden eval.

Sinus maxillaris

R L

cond.

eval.

Palatinum

R L

cond.

eval.

Mandibula:

cond.

% vorhanden

eval.

Temporomandibular-Gelenk:

R L

eval.

Caput mandibulae

FA mandibularis

Vertebrae

Reg-No. Tomb-No. Indiv. Site

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Sonstige Anomalien:

BWS/LWS-Übergang:

Foveae costales:

Spina bifida:

Spondylolyse:

Wirbelfraktur:

Fischwirbel:

Wirbelblock:

1 = Schmorlsche Knoten Grundplatte

2 = Schmorlsche Knoten Deckplatte

3 = Teilverknöcherung lig. flavum

Bemerkungen/Diagnose:

Vertebra-Epigenetik, Sternum, Rippen

Reg-No. Tomb-No. Indiv. Site

Ponticulus atlantis: posterior/lateralis, komplett/inkomplett/trace expression?

C1 R

L

Foramina transversaria bipartita:

	R	L		R	symmetrisch/asymmetrisch/atypisch, komplett/inkomplett/abortiv?			L
C2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
C3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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C6	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
C7	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Rippen:

	Rechts				Rippe	condition	Links			
	extrem. stern.	tuberculum	caput	condition			condition	caput	tuberculum	extrem. stern.
1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
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11	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
12	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

n Rippen rechts n Rippen links

Bemerkungen/Diagnose Rippen + Sternum:

Sternum:

Condition: Manubrium

Corpus

Xiphoid

Incisura costalis R L

I	<input type="checkbox"/>	<input type="checkbox"/>
II	<input type="checkbox"/>	<input type="checkbox"/>
III	<input type="checkbox"/>	<input type="checkbox"/>
IV	<input type="checkbox"/>	<input type="checkbox"/>
V	<input type="checkbox"/>	<input type="checkbox"/>
VI	<input type="checkbox"/>	<input type="checkbox"/>
VII	<input type="checkbox"/>	<input type="checkbox"/>

Hand

JRSH I

Carpale

	Rechts				Links			
	cond.	Beurt.	zu MC I andere	Joint	cond.	Beurt.	zu MC I andere	Joint
Trapezium	1	1	1	1	0		zu MC I andere	
Trapezoideum	1	1	1	1	1	1	zu MC II andere	1
Capitatum	1	1	1	1	1	1	zu MC III andere	1
Hamatum	1	1	1	1	1	1	zu MC IV zu MC V andere	1
Naviculare	1	1	1	1	1	1	zu Radius s. andere	Joint 1
Lunatum	1	1	1	1	1	1	zu Radius s. andere	Joint 1
Triquetrum	1	1	1	1	1	1	zu Ulna s. andere	Joint 1
Pisiforme	1	1	1	1	0		zu Triqu.	

n Sesamknochen

	n	%
vorhanden	14	87,5%
NE	0	0,0%
E	14	100,0%
IE	14	100,0%
PE	0	0,0%
Cond.-Score Carpale	1	1

Bemerkungen Carpale

o.B.

Metacarpale

	Rechts				Links			
	Cond.	Beurt.	Basis	Caput	Cond.	Beurt.	Basis	Caput
I	1	1	1	1	1	1	1	1
II	1	1	1	1	1	1	1	1
III	1	1	1	1	1	1	1	1
IV	1	2	1	1	4	1	M	1
V	1	1	1	0	1	1	1	1

	n	%
vorhanden	10	100,0%
NE	0	0,0%
E	10	100,0%
IE	8	80,0%
PE	2	20,0%
Cond.-Score Metacarpale	1,3	1,3

Bemerkungen Metacarpale

o.B.

Phalangen

	Phal. prox.						Phal. med.						Phal. dist.					
	Rechts			Links			Rechts			Links			Rechts			Links		
	Cond.	Basis	Caput	Cond.	Basis	Caput	Cond.	Basis	Caput	Cond.	Basis	Caput	Cond.	Basis	Cond.	Basis	Cond.	Basis
1	1	1	0	1	1	1								1	1	1	1	
2	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	
3	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	3	1	
4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	0	
5	1	1	1	1	1	1	1	1	1	1	0			1	1	1	1	

Heberden-Arthrose

	n	Cond.
Phalang. prox.	10	1
Phalang. med.	7	1
Phalang. dist.	9	1,33
Cond.-Score Phal.	1,11	1,11

	n	%
vorhanden	26	92,9%
NE	0	0,0%
E	26	100,0%
IE	25	96,2%
PE	1	3,8%

Bemerkungen Phalangen:

o.B.

Hand

	n	%
vorhanden	50	92,6%
NE	0	0,0%
E	50	100,0%
IE	47	94,0%
PE	3	6,0%
Cond.-Score Hand	1,13	1,1367

Diagnose Hand:

Keine degenerativen Veränderungen an den Fingergelenken. Auch sonst keine Pathologie an den Handknochen.

Epigenetics:

Cranial Traits

Reg. No.:

Tomb:

Indiv.:

Date:

1r. Sutura Metopica:		2r. Sutura Supranasale:	
3r. Supraorbital Osseous Structures:		a) trochlear:	b) median:
Incisura, notch, (R/L)			c) lateral:
Foramina, canal (R/L)			
4r. Foramen Infraorbitale:		5r. Sutura canalis Infraorbitalis:	
6r. Tuberculum Zygomaxillare:		7r. Foramen Parietale:	
8r. Sutura Pattern:	a) coronali:	b) sagittali:	c) lambdoide:
9r. Sutura Ossicles:	a) coronali:		b) sagittali:
	c) lambdoide:		
	d) at bregma:		e) at lambda:
10r. Ossicle at astrion:		11r. Ossicle at Occipito-mastoidesuture:	
12r. Sutura Mendosa:			
13r. Foramen Occipitale:			
14r. Canalis Condylaris:			
15r. Facies Condylaris Bipartita:			
16r. Canalis Hypoglossalis:			
17r. Processus Paracondylaris:			
18r. Tuberculum Praecondylare:			
19r. Sutura Palatina Transversa:			
20r. Spina Supra meatum & Depressio Suprameatica:			
- Foramen Mastoideum:			
- Sutura Squamomastoidea:			
- Foramen Zygomatico-Faciale:			
- Foramen Mentale:			

Other traits: Poniculi Palatini, Squama Temporalis Parita, Os Epiptericum, Poniculus Mylohyoideus, adult 3rd molar eruption, and molar cups variants, Os incae reference in s. mendosa.



1995-1999

Laboratory



2004-2012



Since 2012





New Problems!