

2013 BYU Egypt Expedition - Fag el Gamous Cemetery

Body Analysis Chart

Square 130 N 20 W

Area NW

Burial # 50

Date Excavated 13 March 2013
Study 25 March 2013

Observer(s) _____

I. Overall Impression

A. Preservation Index: I II III IV V

B. Hair Color Blond

C. Observations (e.g., Artifacts, Burial Situation, Textiles) continued on back

If there was a negative value for
pecten teeth, this one would
warrant the use.

*Auriphoenix handle
pottery sherd.*

*Femur 15.5 cm
Humerus 11.5 cm.*

*unfixed heads
estimate age later.*

II. Skull Analysis

A. Skull Features (gender estimation)

B. Skull Sutures (age estimation)

Sphenoooccipital synchondrosis [basilar suture]
Closed (>age 18-25) *Not Closed*

Lambdoid suture [parietal-occipital]
Closed (>age 45-50) *Not Closed*

Squamos suture [parietal-temporal]
Closed (>age 60-65) *Not Closed*

B. Dentition (age estimation)

Tooth Attrition

I II III IV V

Tooth Eruption Age Estimate

Skull Features		
	Male	Female
Robust	<i>YES</i>	<i>NO</i>
Supraorbital ridges	<i>HEAVY</i>	<i>LIGHT</i>
Orbit edge	<i>BLUNT</i>	<i>SHARP</i>
Parietal bossing	<i>NO</i>	<i>YES</i>
Gonion	<i>FLAT</i>	<i>POINTED</i>
Nuchal crest	<i>LARGER</i>	<i>SMALLER</i>
Zygomatic crest	<i>LONGER</i>	<i>SHORTER</i>

III. Pelvis Analysis

A. Pelvis Features (gender estimation)

B. Pubic Symphysis (age estimation)

I II III IV V VI

Pelvis Features		
	Male	Female
Ventral arc	<i>YES</i>	<i>NO</i>
Subpubic angle	<i>NARROW</i>	<i>WIDE</i>
Sciatic notch	<i>NARROW</i>	<i>WIDE</i>
Medial IP ramus	<i>FLAT</i>	<i>RIDGED</i>

IV. Limb Analysis

A. Epiphyseal Union

Femur	Closed (>age 17)	Not Closed
Humerus	Closed (>age 14)	Not Closed

B. Head Diameter

Femur Head Diameter (<41.5mm=F; >45.5mm=M) _____

Humerus Head Diameter (<43mm=F; >48mm=M) _____

Observers Estimation of Age at Death

2

Observers Estimation of Gender

Female *Male* *Indeterminate*

V. Stature Estimation

[M=2.32(femur length) + 65.53; F=2.47(femur length) + 54.1]

A. Femur length (mm) _____

B. Humerus length (mm) _____

Estimate of Stature _____

VI. Pathology

- A. Osteophytosis None Slight Moderate Heavy
B. Caries and Periodontal Disease (noted on Figure 1)
C. Notes:

VII. Samples

No Shimp.

PERMANENT TEETH RECORDING FORM
Wear, Development, Loss

Loss Categories	Wear Scores	Development Status
A = antenatal	0 = not in occlusion	0 = undesirable
P = postnatal	1-10 = per Standards	1-14 = per Standards
U = unknown	X = unknown due to caries or breakage	

MAXILLA

Wear Development or Loss Category

MANDIBLE

RIGHT LEFT

Figure 1: Caries (marked with filled circle) and Periodontal Disease (marked with X). Antemortem tooth loss is marked as darkened tooth.

Observations (Artifacts, Burial situation, Textiles) continued from front

2013 BYU Egypt Expedition - Fag el Gamous Cemetery

Body Analysis Chart

Square 13° N
14° W Area NW Burial # 54 Date Excavation 13 March 2013
study 25 March 2013

Observer(s) Evan, Smith

I. Overall Impression

- A. Preservation Index: I II III IV V

B. Hair Color black

C. Observations (e.g., Artifacts, Burial Situation, Textiles) *continued on back*

*plaid in
plastic
bag* glass and pottery shards came not remarkable textile (lines
pottery present mostly deteriorated
vegetable fiber rope and palm presence of fibers
present palm spine bundle presence of fine linen weave.

II. Skull Analysis

- A. Skull Features (gender estimation)

- B. Skull Sutures (age estimation)

Spheunooccipital synchondrosis [basilar suture]
Closed (>age 18-25) Not Closed

Lambdoid suture [parietal-occipital]
Closed (>age 45-50) Not Closed

Squamos suture [parietal-temporal]
Closed (>age 60-65) Not Closed

- B. Dentition (age estimation)

Tooth Attrition

I II III IV V

Tooth Eruption Age Estimate
wisdom erupting imminent if not already

III. Pelvis Analysis

- A. Pelvis Features (gender estimation)

- B. Pubic Symphysis (age estimation)

I II III IV V VI

IV. Limb Analysis

- A. Epiphyseal Union

Femur

Closed (>age 17)

Not Closed

Humerus

Closed (>age 14)

Not Closed

- B. Head Diameter

Femur Head Diameter (<41.5mm=F; >45.5mm=M) 41.8

Humerus Head Diameter (<43mm=F; >48mm=M) 36.4

Skull Features		
	Male	Female
Robust	YES	<u>NO</u>
Supraorbital ridges	HEAVY	<u>LIGHT</u>
Orbit edge	BLUNT	<u>SHARP</u>
Parietal bossing	NO	YES
Gonion	FLAT	<u>POINTED</u>
Nuchal crest	LARGER	<u>SMALLER</u>
Zygomatic crest	LONGER	<u>SHORTER</u>

Pelvis Features		
	Male	Female
Ventral arc	YES	NO
Subpubic angle	NARROW	<u>WIDE</u>
Sciatic notch	NARROW	<u>WIDE</u>
Medial IP ramus	FLAT	<u>RIDGED</u>

Observers Estimation of Age at Death

19-20

Observers Estimation of Gender

Female

Male

Indeterminate

V. Stature Estimation $[M=2.32(\text{femur length}) + 65.53; F=2.47(\text{femur length}) + 54.1]$

A. Femur length (mm)

40.0

B. Humerus length (mm)

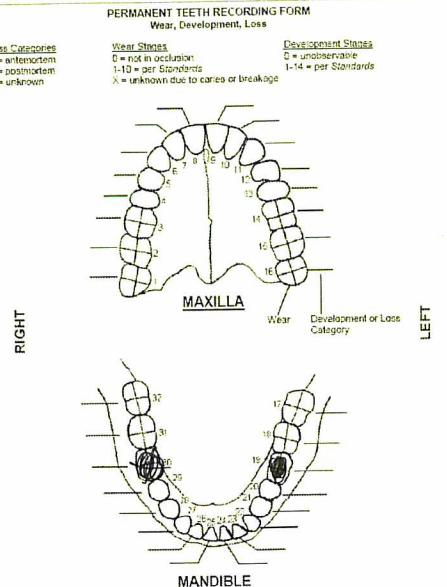
28.1

Estimate of Stature _____

VI. Pathology

- A. Osteophytosis None Slight Moderate Heavy
- B. Caries and Periodontal Disease (noted on Figure 1)
- C. Notes:

No periodontal



VII. Samples

Incisor, Canine from maxill.

Observations (Artifacts, Burial situation, Textiles) *continued from front*

2013 BYU Egypt Expedition - Fag el Gamous Cemetery

Body Analysis Chart

Square 140 N 20 W Area NW Burial # 59 Date Excavated 14 March 2013
Study 25 March 2013

Observer(s) Evan

I. Overall Impression

- A. Preservation Index: I II III IV V
 B. Hair Color ND

C. Observations (e.g., Artifacts, Burial Situation, Textiles) *continued on back*

Infant

Femur 16.2

wave linea fragment

NA

II. Skull Analysis

- A. Skull Features (gender estimation)

- B. Skull Sutures (age estimation)

Sphenoooccipital synchondrosis [basilar suture]	
<i>Closed (>age 18-25)</i>	<i>Not Closed</i>
Lambdoid suture [parietal-occipital]	
<i>Closed (>age 45-50)</i>	<i>Not Closed</i>
Squamos suture [parietal-temporal]	
<i>Closed (>age 60-65)</i>	<i>Not Closed</i>

- B. Dentition (age estimation)

Tooth Attrition

I II III IV V

Tooth Eruption Age Estimate
(1st molar erupted) 3 years.

Skull Features <u>NA</u>		
	Male	Female
Robust	YES	NO
Supraorbital ridges	HEAVY	LIGHT
Orbit edge	BLUNT	SHARP
Parietal bossing	NO	YES
Gonion	FLAT	POINTED
Nuchal crest	LARGER	SMALLER
Zygomatic crest	LONGER	SHORTER

III. Pelvis Analysis

- A. Pelvis Features (gender estimation) NA

- B. Pubic Symphysis (age estimation)

I II III IV V VI

Pelvis Features <u>NA</u>		
	Male	Female
Ventral arc	YES	NO
Subpubic angle	NARROW	WIDE
Sciatic notch	NARROW	WIDE
Medial IP ramus	FLAT	RIDGED

IV. Limb Analysis

- A. Epiphyseal Union

Femur	Closed (>age 17)	Not Closed
Humerus	Closed (>age 14)	Not Closed

- B. Head Diameter

Femur Head Diameter (<41.5mm=F; >45.5mm=M) _____

Humerus Head Diameter (<43mm=F; >48mm=M) _____

Observers Estimation of Age at Death

3 yrs

Observers Estimation of Gender

Female Male Indeterminate

X

Stature Estimation

[M=2.32(femur length) + 65.53; F=2.47(femur length) + 54.1]

A. Femur length (mm) _____

B. Humerus length (mm) _____

Estimate of Stature _____

VI. Pathology

A. Osteophytosis None Slight Moderate Heavy

B. Caries and Periodontal Disease (noted on Figure 1)

C. Notes:

VII. Samples

No sample taken

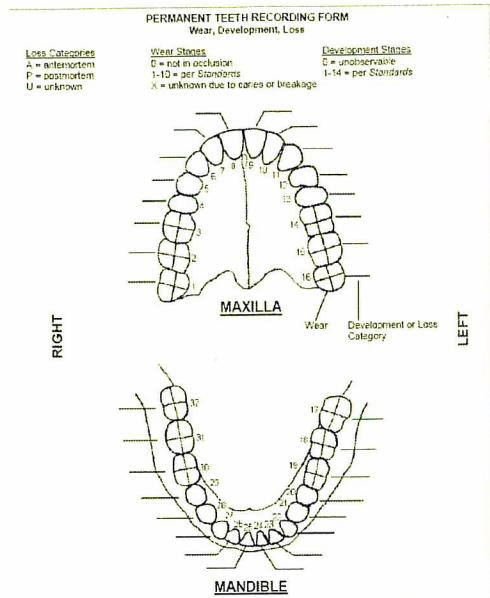


Figure 1: Caries (marked with filled circle) and Periodontal Disease (marked with X). Antemortem tooth loss is marked as darkened tooth.

Observations (Artifacts, Burial situation, Textiles) *continued from front*

2013 BYU Egypt Expedition - Fag el Gamous Cemetery

Body Analysis Chart

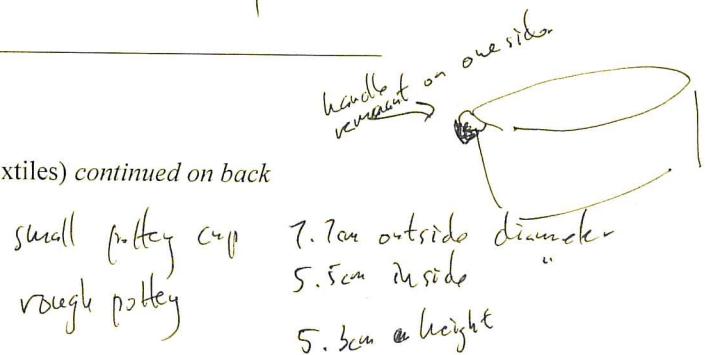
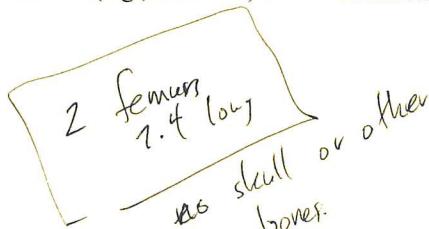
Square 130 N 140 W Area NW Burial # 62 Date Excavated 14 March 2013
Study 25 March 2013

Observer(s) Evan

I. Overall Impression

- A. Preservation Index: I II III IV V
 B. Hair Color _____

C. Observations (e.g., Artifacts, Burial Situation, Textiles) *continued on back*



II. Skull Analysis

- A. Skull Features (gender estimation)

- B. Skull Sutures (age estimation)

Sphenoccipital synchondrosis [basilar suture]	
<i>Closed (>age 18-25)</i>	<i>Not Closed</i>
Lambdoid suture [parietal-occipital]	
<i>Closed (>age 45-50)</i>	<i>Not Closed</i>
Squamos suture [parietal-temporal]	
<i>Closed (>age 60-65)</i>	<i>Not Closed</i>

- B. Dentition (age estimation)

Tooth Attrition

I	II	III	IV	V
Tooth Eruption Age Estimate				

Skull Features		
	Male	Female
Robust	<i>YES</i>	<i>NO</i>
Supraorbital ridges	<i>HEAVY</i>	<i>LIGHT</i>
Orbit edge	<i>BLUNT</i>	<i>SHARP</i>
Parietal bossing	<i>NO</i>	<i>YES</i>
Gonion	<i>FLAT</i>	<i>POINTED</i>
Nuchal crest	<i>LARGER</i>	<i>SMALLER</i>
Zygomatic crest	<i>LONGER</i>	<i>SHORTER</i>

III. Pelvis Analysis

- A. Pelvis Features (gender estimation)

- B. Pubic Symphysis (age estimation)

I	II	III	IV	V	VI
---	----	-----	----	---	----

Pelvis Features		
	Male	Female
Ventral arc	<i>YES</i>	<i>NO</i>
Subpubic angle	<i>NARROW</i>	<i>WIDE</i>
Sciatic notch	<i>NARROW</i>	<i>WIDE</i>
Medial IP ramus	<i>FLAT</i>	<i>RIDGED</i>

IV. Limb Analysis

- A. Epiphyseal Union

Femur	<i>Closed (>age 17)</i>	<i>Not Closed</i>
Humerus	<i>Closed (>age 14)</i>	<i>Not Closed</i>

- B. Head Diameter

Femur Head Diameter ($<41.5\text{mm}=F; >45.5\text{mm}=M$) _____

Humerus Head Diameter ($<43\text{mm}=F; >48\text{mm}=M$) _____

Observers Estimation of Age at Death ()

Observers Estimation of Gender

Female *Male* *Indeterminate*

V. Stature Estimation [$M=2.32(\text{femur length}) + 65.53; F=2.47(\text{femur length}) + 54.1$]

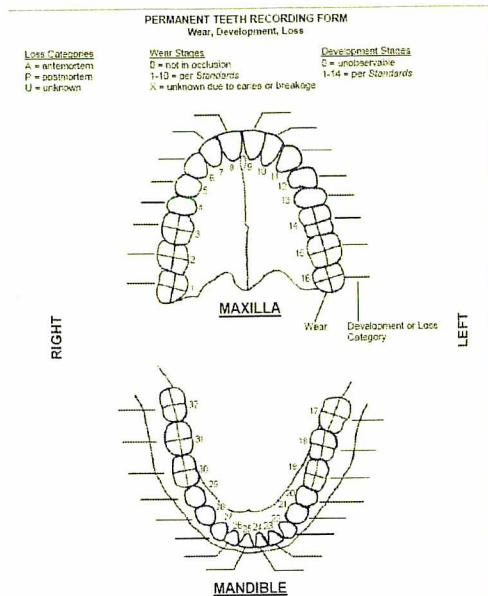
A. Femur length (mm) _____

B. Humerus length (mm) _____

Estimate of Stature _____

VI. Pathology

- A. Osteophytosis None Slight Moderate Heavy
- B. Caries and Periodontal Disease (noted on Figure 1)
- C. Notes:



VII. Samples

H. Smith

Observations (Artifacts, Burial situation, Textiles) *continued from front*

2013 BYU Egypt Expedition - Fag el Gamous Cemetery

Body Analysis Chart

Square 130 N 20 W Area NW Burial # 63 Date excavate 14 March 2013
study 25 March 2013

Observer(s) Evans

I. Overall Impression

A. Preservation Index: I II III IV V

B. Hair Color ND

C. Observations (e.g., Artifacts, Burial Situation, Textiles) *continued on back*

*pottery sherds
faience faience fragments
polar fowl spines*

No skull

NA

II. Skull Analysis

A. Skull Features (gender estimation)

B. Skull Sutures (age estimation)

Sphenoooccipital synchondrosis [basilar suture]

Closed (>age 18-25) *Not Closed*

Lambdoid suture [parietal-occipital]

Closed (>age 45-50) *Not Closed*

Squamos suture [parietal-temporal]

Closed (>age 60-65) *Not Closed*

B. Dentition (age estimation)

Tooth Attrition

I II III IV V

Tooth Eruption Age Estimate

Skull Features <u>NA</u>		
	Male	Female
Robust	<i>YES</i>	<i>NO</i>
Supraorbital ridges	<i>HEAVY</i>	<i>LIGHT</i>
Orbit edge	<i>BLUNT</i>	<i>SHARP</i>
Parietal bossing	<i>NO</i>	<i>YES</i>
Gonion	<i>FLAT</i>	<i>POINTED</i>
Nuchal crest	<i>LARGER</i>	<i>SMALLER</i>
Zygomatic crest	<i>LONGER</i>	<i>SHORTER</i>

III. Pelvis Analysis

A. Pelvis Features (gender estimation) O7

B. Pubic Symphysis (age estimation)

I II III IV V VI

IV. Limb Analysis

A. Epiphyseal Union

Femur *Closed (>age 17)*

Humerus *Closed (>age 14)*

Not Closed

Not Closed

Pelvis Features		
	Male	Female
Ventral arc	<i>YES</i>	<i>NO</i>
Subpubic angle	<i>NARROW</i>	<i>WIDE</i>
Sciatic notch	<i>NARROW</i>	<i>WIDE</i>
Medial IP ramus	<i>FLAT</i>	<i>RIDGED</i>

B. Head Diameter

Femur Head Diameter (<41.5mm=F; >45.5mm=M) 43.0

Humerus Head Diameter (<43mm=F; >48mm=M) _____

Observers Estimation of Age at Death 30

Observers Estimation of Gender

Female

Male

Indeterminate

V. Stature Estimation $[M=2.32(\text{femur length}) + 65.53; F=2.47(\text{femur length}) + 54.1]$

A. Femur length (mm) 41.2

B. Humerus length (mm) _____

Estimate of Stature _____

VI. Pathology

- A. Osteophytosis None Slight Moderate Heavy
 B. Caries and Periodontal Disease (noted on Figure 1)
 C. Notes:

PERMANENT TEETH RECORDING FORM
Wear, Development, Loss

Loss Categories
A = anteromere
P = postmolt
U = unknown

Wear Scores
0 = not in occlusion
1-10 = per Standards
X = unknown due to caries or breakage

Development Scores
0 = unobservable
1-14 = per Standards

MAXILLA

MANDIBLE

RIGHT **LEFT**

Figure 1: Caries (marked with filled circle) and Periodontal Disease (marked with X). Antemortem tooth loss is marked as darkened tooth.

VII. Samples

target

Observations (Artifacts, Burial situation, Textiles) *continued from front*

2013 BYU Egypt Expedition - Fag el Gamous Cemetery

Body Analysis Chart

Square 14° N 30° W Area NW Burial # 65 Date Excavated 16 March 2013
Study 25 March 2013

Observer(s) Edu

I. Overall Impression

- A. Preservation Index: I II III IV V
 B. Hair Color Brown

C. Observations (e.g., Artifacts, Burial Situation, Textiles) *continued on back*

twisted rope
palm frond spine.
green liver fragment.

pottery sherd.
No Femurs *on* *battered body.*

red ribbon fragment

II. Skull Analysis

- A. Skull Features (gender estimation) ♂

B. Skull Sutures (age estimation)

Sphenoooccipital synchondrosis [basilar suture]	
<u>Closed</u> ($> \text{age } 18-25$)	<u>Not Closed</u>
Lambdoid suture [parietal-occipital]	
<u>Closed</u> ($> \text{age } 45-50$)	<u>Not Closed</u>
Squamos suture [parietal-temporal]	
<u>Closed</u> ($> \text{age } 60-65$)	<u>Not Closed</u>

B. Dentition (age estimation)

Tooth Attrition

I	II	<u>III</u>	IV	V
Tooth Eruption Age Estimate				

> 21

Skull Features		
	Male	Female
Robust	<u>YES</u>	<u>NO</u>
Supraorbital ridges	<u>HEAVY</u>	<u>LIGHT</u>
Orbit edge	<u>BLUNT</u>	<u>SHARP</u>
Parietal bossing	<u>NO</u>	<u>YES</u>
Gonion	<u>FLAT</u>	<u>POINTED</u>
Nuchal crest	<u>LARGER</u>	<u>SMALLER</u>
Zygomatic crest	<u>LONGER</u>	<u>SHORTER</u>

III. Pelvis Analysis

- A. Pelvis Features (gender estimation) ♂

B. Pubic Symphysis (age estimation)

I II III IV V VI

Pelvis Features		
	Male	Female
Ventral arc	<u>YES</u>	<u>NO</u>
Subpubic angle	<u>NARROW</u>	<u>WIDE</u>
Sciatic notch	<u>NARROW</u>	<u>WIDE</u>
Medial IP ramus	<u>FLAT</u>	<u>RIDGED</u>

IV. Limb Analysis

A. Epiphyseal Union

Femur	<u>Closed</u> ($> \text{age } 17$)	Not Closed
Humerus	<u>Closed</u> ($> \text{age } 14$)	Not Closed

B. Head Diameter

Femur Head Diameter ($< 41.5 \text{ mm} = \text{F}; > 45.5 \text{ mm} = \text{M}$) _____

Humerus Head Diameter ($< 43 \text{ mm} = \text{F}; > 48 \text{ mm} = \text{M}$) 46.1

Observers Estimation of Age at Death

25 - 30 years

Observers Estimation of Gender

Female

Male

Indeterminate

V. Stature Estimation

[$M = 2.32(\text{femur length}) + 65.53$; $F = 2.47(\text{femur length}) + 54.1$]

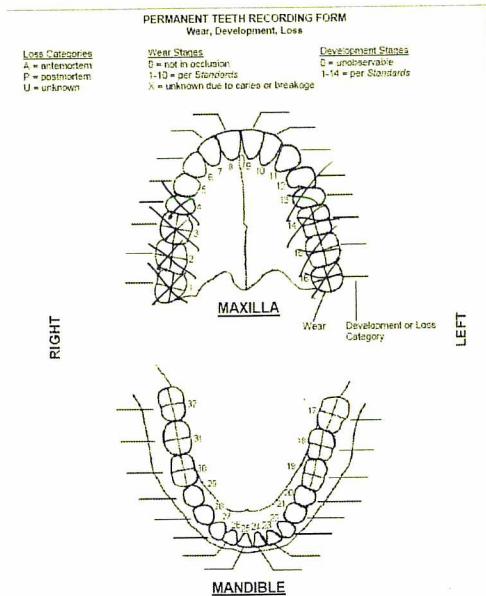
A. Femur length (mm) _____

B. Humerus length (mm) 32.3

Estimate of Stature _____

VI. Pathology

- A. Osteophytosis None Slight Moderate Heavy
- B. Caries and Periodontal Disease (noted on Figure 1)
- C. Notes:



VII. Samples

*left
n6.*

Observations (Artifacts, Burial situation, Textiles) *continued from front*

2013 BYU Egypt Expedition - Fag el Gamous Cemetery

Body Analysis Chart

Square 130 20
140 30 Area NW Burial # 67 Date Excavated 16 March 2013
study 25 March 2013

Observer(s) Evans

I. Overall Impression

- A. Preservation Index: I II III IV V
 B. Hair Color BLD

C. Observations (e.g., Artifacts, Burial Situation, Textiles) *continued on back*

p. flery shard

II. Skull Analysis

A. Skull Features (gender estimation)

B. Skull Sutures (age estimation)

Sphenooccipital synchondrosis [basilar suture]	
<i>Closed (>age 18-25)</i>	<i>Not Closed</i>
Lambdoid suture [parietal-occipital]	
<i>Closed (>age 45-50)</i>	<i>Not Closed</i>
Squamos suture [parietal-temporal]	
<i>Closed (>age 60-65)</i>	<i>Not Closed</i>

B. Dentition (age estimation)

Tooth Attrition

I II III IV V

Tooth Eruption Age Estimate
3 years 1st molar fully erupted

Skull Features <u>N/A</u>		
	Male	Female
Robust	<i>YES</i>	<i>NO</i>
Supraorbital ridges	<i>HEAVY</i>	<i>LIGHT</i>
Orbit edge	<i>BLUNT</i>	<i>SHARP</i>
Parietal bossing	<i>NO</i>	<i>YES</i>
Gonion	<i>FLAT</i>	<i>POINTED</i>
Nuchal crest	<i>LARGER</i>	<i>SMALLER</i>
Zygomatic crest	<i>LONGER</i>	<i>SHORTER</i>

III. Pelvis Analysis

A. Pelvis Features (gender estimation) N/A

B. Pubic Symphysis (age estimation) N/A
 I II III IV V VI

Pelvis Features <u>N/A</u>		
	Male	Female
Ventral arc	<i>YES</i>	<i>NO</i>
Subpubic angle	<i>NARROW</i>	<i>WIDE</i>
Sciatic notch	<i>NARROW</i>	<i>WIDE</i>
Medial IP ramus	<i>FLAT</i>	<i>RIDGED</i>

IV. Limb Analysis

A. Epiphyseal Union

Femur	Closed (>age 17)	Not Closed
Humerus	Closed (>age 14)	Not Closed

B. Head Diameter

Femur Head Diameter (<41.5mm=F; >45.5mm=M) N/A
 Humerus Head Diameter (<43mm=F; >48mm=M) N/A

Observers Estimation of Age at Death

3 years

Observers Estimation of Gender

Female Male Indeterminate

V. Stature Estimation $[M=2.32(\text{femur length}) + 65.53; F=2.47(\text{femur length}) + 54.1]$

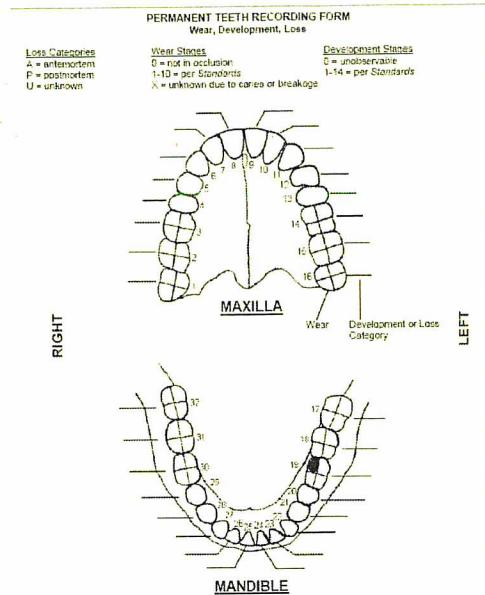
A. Femur length (mm) N/A

B. Humerus length (mm) N/A

Estimate of Stature _____

VI. Pathology

- A. Osteophytosis None Slight Moderate Heavy
- B. Caries and Periodontal Disease (noted on Figure 1)
- C. Notes:



VII. Samples

teeth and ribs

Observations (Artifacts, Burial situation, Textiles) *continued from front*

2013 BYU Egypt Expedition - Fag el Gamous Cemetery
Body Analysis Chart

Square 13° N 20° W Area NW Burial # 69 Date Excav 18 March 2013
Study 25 March 2013

Observer(s) Evanus

I. Overall Impression

- A. Preservation Index: I II III IV V

B. Hair Color ND

C. Observations (e.g., Artifacts, Burial Situation, Textiles) *continued on back*

*large linen fragments
pottery sherd
mandible is missing*

II. Skull Analysis

- A. Skull Features (gender estimation)

B. Skul Sutures (age estimation)

Sphenoccipital synchondrosis [basilar suture]
Closed (> age 18-25) Not Closed
Lambdoid suture [parietal-occipital]
Closed (> age 45-50) Not Closed
Squamos suture [parietal-temporal]
Closed (> age 60-65) Partially Not Closed

- B. Dentition (age estimation)

Tooth Attrition

I II III IV V
Tooth Eruption Age Estimate
> 21

Skull Features		
	Male	Female
Robust	YES	<u>NO</u>
Supraorbital ridges	HEAVY	<u>LIGHT</u>
Orbit edge	BLUNT	<u>SHARP</u>
Parietal bossing	NO	<u>YES</u>
Gonion	FLAT	<u>POINTED</u>
Nuchal crest	LARGER	<u>SMALLER</u>
Zygomatic crest	LONGER	<u>SHORTER</u>

III. Pelvis Analysis

- A. Pelvis Features (gender estimation)

B. Pubic Symphysis (age estimation)

I II III IV V VI

IV. Limb Analysis

- A. Epiphyseal Union

Femur Closed (> age 17) Not Closed
Humerus Closed (> age 14) Not Closed

- B. Head Diameter

Femur Head Diameter (<41.5mm=F; >45.5mm=M) 41.9

Humerus Head Diameter (<43mm=F; >48mm=M) 38.9

Pelvis Features		
	Male	Female
Ventral arc	YES	<u>NO</u>
Subpubic angle	<u>NARROW</u>	<u>WIDE</u>
Sciatic notch	<u>NARROW</u>	<u>WIDE</u>
Medial IP ramus	FLAT	<u>RIDGED</u>

Observers Estimation of Age at Death

50 years

Observers Estimation of Gender

Female Male Indeterminate

V. Stature Estimation

$$M=2.32(\text{femur length}) + 65.53; F=2.47(\text{femur length}) + 54.1$$

A. Femur length (mm) 45.0

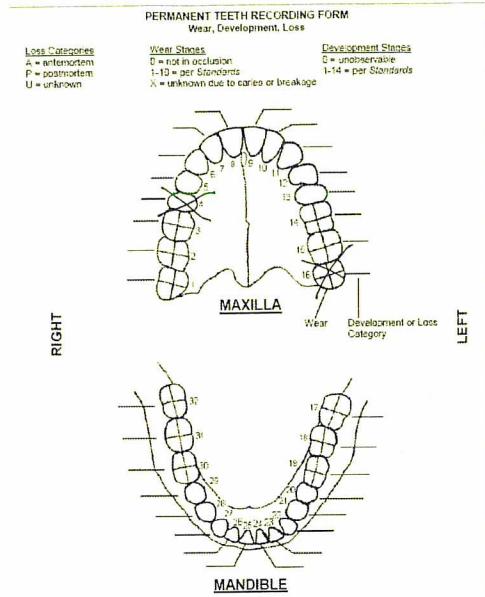
B. Humerus length (mm) 30.1

Estimate of Stature _____

VI. Pathology

- A. Osteophytosis None Slight Moderate Heavy
- B. Caries and Periodontal Disease (noted on Figure 1)
- C. Notes:

mandible is missing



VII. Samples

Maxilla and M.

Figure 1: Caries (marked with filled circle) and Periodontal Disease (marked with X). Antemortem tooth loss is marked as darkened tooth.

Observations (Artifacts, Burial situation, Textiles) *continued from front*

2013 BYU Egypt Expedition - Fag el Gamous Cemetery

Body Analysis Chart

*Excavated 18 March 2013
Study 25 March 2013*

Square 130 N 35 W

Area N44

Burial # 72

Date Study 25 March 2013

Observer(s) Evan

I. Overall Impression

A. Preservation Index: I II III IV V

B. Hair Color ND

C. Observations (e.g., Artifacts, Burial Situation, Textiles) *continued on back*

Bones only

II. Skull Analysis

A. Skull Features (gender estimation)

B. Skull Sutures (age estimation)

Sphenoooccipital synchondrosis [basilar suture]	
<i>Closed (> age 18-25)</i>	<i>Not Closed</i>
Lambdoid suture [parietal-occipital]	
<i>Closed (> age 45-50)</i>	<i>Not Closed</i>
Squamos suture [parietal-temporal]	
<i>Closed (> age 60-65)</i>	<i>Not Closed</i>

B. Dentition (age estimation)

Tooth Attrition

I II III IV V

Tooth Eruption Age Estimate

> 21

Skull Features		
	Male	Female
Robust	<u>YES</u>	<u>NO</u>
Supraorbital ridges	<u>HEAVY</u>	<u>LIGHT</u>
Orbit edge	<u>BLUNT</u>	<u>SHARP</u>
Parietal bossing	<u>NO</u>	<u>YES</u>
Gonion	<u>FLAT</u>	<u>POINTED</u>
Nuchal crest	<u>LARGER</u>	<u>SMALLER</u>
Zygomatic crest	<u>LONGER</u>	<u>SHORTER</u>

??

III. Pelvis Analysis

A. Pelvis Features (gender estimation)

B. Pubic Symphysis (age estimation)

I II III IV V VI

Pelvis Features		
	Male	Female
Ventral arc	<u>YES</u>	<u>NO</u>
Subpubic angle	<u>NARROW</u>	<u>WIDE</u>
Sciatic notch	<u>NARROW</u>	<u>WIDE</u>
Medial IP ramus	<u>FLAT</u>	<u>RIDGED</u>

IV. Limb Analysis

A. Epiphyseal Union

Femur	<u>Closed (> age 17)</u>	Not Closed
Humerus	<u>Closed (> age 14)</u>	Not Closed

B. Head Diameter

Femur Head Diameter (<41.5mm=F; >45.5mm=M) 42.9

Humerus Head Diameter (<43mm=F; >48mm=M) 39.6

Observers Estimation of Age at Death

30-40

tooth attrition / periodontitis

Observers Estimation of Gender

Female

Male

Indeterminate

V. Stature Estimation

[M=2.32(femur length) + 65.53; F=2.47(femur length) + 54.1]

A. Femur length (mm) 44.8

B. Humerus length (mm) 36.1

Estimate of Stature _____

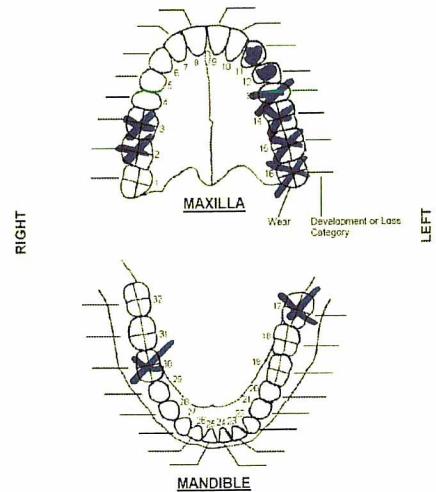
VI. Pathology

- A. Osteophytosis None Slight Moderate Heavy
 B. Caries and Periodontal Disease (noted on Figure 1)
 C. Notes:

PERMANENT TEETH RECORDING FORM
 Wear, Development, Loss

Loss Categories
 A = antemortem
 D = postmortem
 F = unknown
 X = unknown due to caries or breakage

Development Stages
 0 = not in occlusion
 1-10 = per Standards
 11-14 = per Standards



VII. Samples

Maxilla | Mandible premolar, molar, major, canine.

Observations (Artifacts, Burial situation, Textiles) *continued from front*

Exsoda (ben)
 Matsusa (ben)
 Tensator (ben)

2013 BYU Egypt Expedition - Fag el Gamous Cemetery

Body Analysis Chart

Square 13° N 29° W Area NW Burial # 74 Date Excavate Study 18 March 2013

Observer(s) Elias

I. Overall Impression

A. Preservation Index: I II III IV V

B. Hair Color Black

C. Observations (e.g., Artifacts, Burial Situation, Textiles) *continued on back*

grave not described further

II. Skull Analysis

A. Skull Features (gender estimation)
skull is nonadult.

B. Skull Sutures (age estimation)

Sphenooccipital synchondrosis [basilar suture]	
Closed (>age 18-25)	<u>Not Closed</u>
Lambdoid suture [parietal-occipital] Closed (>age 45-50)	<u>Not Closed</u>
Squamos suture [parietal-temporal] Closed (>age 60-65)	
	<u>Not Closed</u>

B. Dentition (age estimation)

Tooth Attrition
I II III IV V

Tooth Eruption Age Estimate
*2nd molar erupting deciduous teeth
maxilla and mandible.*

III. Pelvis Analysis

6-7 years old.

A. Pelvis Features (gender estimation) N/A

B. Pubic Symphysis (age estimation)

I II III IV V VI N/A

IV. Limb Analysis

A. Epiphyseal Union

Femur	Closed (>age 17)	<u>Not Closed</u>
Humerus	Closed (>age 14)	<u>Not Closed</u>

B. Head Diameter

Femur Head Diameter (<41.5mm=F; >45.5mm=M) N/A
Humerus Head Diameter (<43mm=F; >48mm=M) N/A

Skull Features		
	Male	Female
Robust	YES	NO
Supraorbital ridges	HEAVY	LIGHT
Orbit edge	BLUNT	SHARP
Parietal bossing	NO	YES
Gonion	FLAT	POINTED
Nuchal crest	LARGER	SMALLER
Zygomatic crest	LONGER	SHORTER

Pelvis Features		
	Male	Female
Ventral arc	YES	NO
Subpubic angle	NARROW	WIDE
Sciatic notch	NARROW	WIDE
Medial IP ramus	FLAT	RIDGED

Observers Estimation of Age at Death

6-7 years old

Observers Estimation of Gender

Female Male Indeterminate

V. Stature Estimation

$[M=2.32(\text{femur length}) + 65.53; F=2.47(\text{femur length}) + 54.1]$

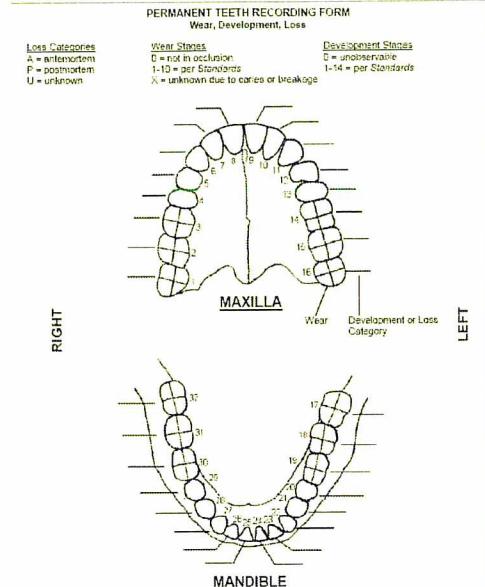
A. Femur length (mm) N/A

B. Humerus length (mm) N/A

Estimate of Stature N/A

VI. Pathology

- A. Osteophytosis None
- B. Caries and Periodontal Disease (noted on Figure 1)
- C. Notes: N/A



VII. Samples

mandib.
maxill.
n.b.

Observations (Artifacts, Burial situation, Textiles) *continued from front*

2013 BYU Egypt Expedition - Fag el Gamous Cemetery

Body Analysis Chart

Square 130 N 30 W Area NW Burial # 75 Date Excavated 18 March 2013
Study 25 March 2013

Observer(s) Evans and Smith

I. Overall Impression

- A. Preservation Index: I II III IV V
B. Hair Color NP

- C. Observations (e.g., Artifacts, Burial Situation, Textiles) *continued on back*

Infant poorly preserved; bones only

II. Skull Analysis

- A. Skull Features (gender estimation)

- B. Skull Sutures (age estimation)

Sphenooccipital synchondrosis [basilar suture]	
<i>Closed (>age 18-25)</i>	<i>Not Closed</i>
Lambdoid suture [parietal-occipital]	
<i>Closed (>age 45-50)</i>	<i>Not Closed</i>
Squamos suture [parietal-temporal]	
<i>Closed (>age 60-65)</i>	<i>Not Closed</i>

- B. Dentition (age estimation)

Tooth Attrition	<u>I</u>	II	III	IV	V
Tooth Eruption Age Estimate					
<i>(1 year incisors and canine erupted)</i>					

III. Pelvis Analysis

- A. Pelvis Features (gender estimation)

alt N/A

- B. Pubic Symphysis (age estimation)

I II III IV V VI N/A

IV. Limb Analysis

- A. Epiphyseal Union

Femur	Closed (>age 17)	<u>Not Closed</u>
Humerus	Closed (>age 14)	<u>Not Closed</u>

- B. Head Diameter

Femur Head Diameter (<41.5mm=F; >45.5mm=M)	<u>N/A</u>
Humerus Head Diameter (<43mm=F; >48mm=M)	<u>N/A</u>

Skull Features	Male	Female
Robust	YES	NO
Supraorbital ridges	HEAVY	LIGHT
Orbit edge	BLUNT	SHARP
Parietal bossing	NO	YES
Gonion	FLAT	POINTED
Nuchal crest	LARGER	SMALLER
Zygomatic crest	LONGER	SHORTER

Pelvis Features	Male	Female
Ventral arc	YES	NO
Subpubic angle	NARROW	WIDE
Sciatic notch	NARROW	WIDE
Medial IP ramus	FLAT	RIDGED

Observers Estimation of Age at Death

1 year

Observers Estimation of Gender

Female *Male* *Indeterminate*

V. Stature Estimation

$$[M=2.32(\text{femur length}) + 65.53; F=2.47(\text{femur length}) + 54.1]$$

A. Femur length (mm)

N/A

B. Humerus length (mm)

N/A

Estimate of Stature

VI. Pathology

A. Osteophytosis None Slight Moderate Heavy

B. Caries and Periodontal Disease (noted on Figure 1)

C. Notes:

*Excessive periodontitis
lost all except maxillary second molar.*

*placed under
inflamed
burial rpe.*

VII. Samples

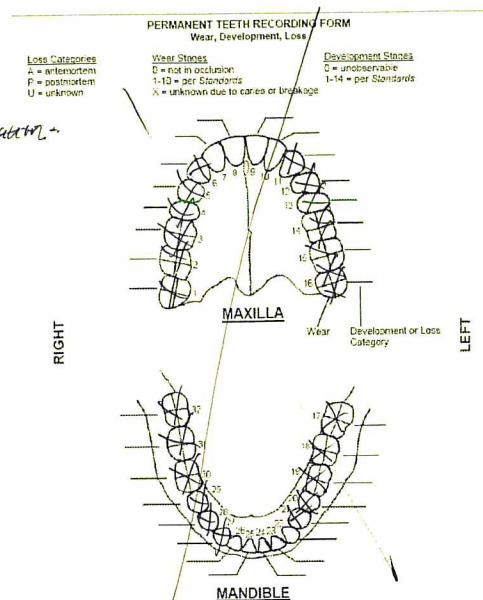


Figure 1: Caries (marked with filled circle) and Periodontal Disease (marked with X). Antemortem tooth loss is marked as darkened tooth.

Observations (Artifacts, Burial situation, Textiles) *continued from front*

2013 BYU Egypt Expedition - Fag el Gamous Cemetery
Body Analysis Chart

Square 13° N 23° W Area NW Burial # 77 Date Exhibit Study 20 March 2013
24 March 2013

Observer(s) Evens

I. Overall Impression

A. Preservation Index: I II III IV V All better.

B. Hair Color brown

C. Observations (e.g., Artifacts, Burial Situation, Textiles) continued on back

coarse linen juvenile - sutures in cranial and facial.

II. Skull Analysis

A. Skull Features (gender estimation)

B. Skull Sutures (age estimation)

Sphenoccipital synchondrosis [basilar suture]

Closed (>age 18-25) Not Closed

Lambdoid suture [parietal-occipital]

Closed (>age 45-50) Not Closed

Squamos suture [parietal-temporal]

Closed (>age 60-65) Not Closed

B. Dentition (age estimation)

Tooth Attrition

I II III IV V

Tooth Eruption Age Estimate
No wear on teeth. 1st molar erupted
2 years old.

III. Pelvis Analysis

A. Pelvis Features (gender estimation) N/A

B. Pubic Symphysis (age estimation)

I II III IV V VI N/A

IV. Limb Analysis

A. Epiphyseal Union

Femur Closed (>age 17)

Humerus Closed (>age 14)

Not Closed
Not Closed

B. Head Diameter

Femur Head Diameter (<41.5mm=F; >45.5mm=M)

Humerus Head Diameter (<43mm=F; >48mm=M)

Skull Features		
	Male	Female
Robust	YES	NO
Supraorbital ridges	HEAVY	LIGHT
Orbit edge	BLUNT	SHARP
Parietal bossing	NO	YES
Gonion	FLAT	POINTED
Nuchal crest	LARGER	SMALLER
Zygomatic crest	LONGER	SHORTER

Pelvis Features		
	Male	Female
Ventral arc	YES	NO
Subpubic angle	NARROW	WIDE
Sciatic notch	NARROW	WIDE
Medial IP ramus	FLAT	RIDGED

Observers Estimation of Age at Death

21 years

Observers Estimation of Gender

Female Male Indeterminate

V. Stature Estimation

[M=2.32(femur length) + 65.53; F=2.47(femur length) + 54.1]

A. Femur length (mm)

N/A

B. Humerus length (mm)

N/A

Estimate of Stature

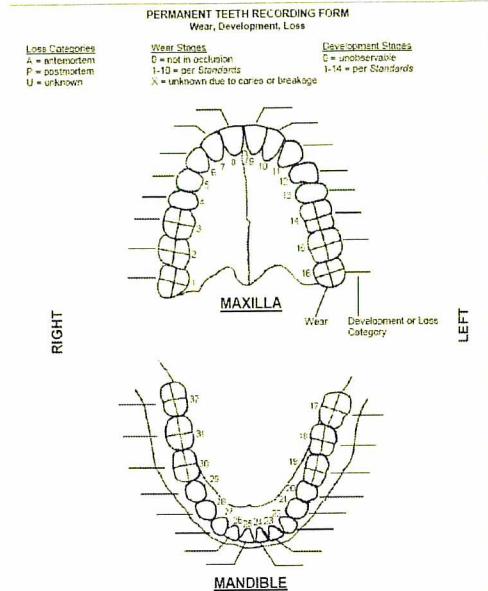
N/A

VI. Pathology

A. Osteophytosis None Slight Moderate Heavy

B. Caries and Periodontal Disease (noted on Figure 1)

C. Notes: None.



VII. Samples

Teeth from mandible

Observations (Artifacts, Burial situation, Textiles) *continued from front*

2013 BYU Egypt Expedition - Fag el Gamous Cemetery

Body Analysis Chart

Square 130 N 20 W Area NW Burial # 80 Date Buried 20 March 2013
Study 28 March 2013

Observer(s) Evan.

I. Overall Impression

- A. Preservation Index: I II III IV V
- B. Hair Color Brown

C. Observations (e.g., Artifacts, Burial Situation, Textiles) *continued on back*

coarse linen fragments

II. Skull Analysis

A. Skull Features (gender estimation)

B. Skull Sutures (age estimation)

Sphenoccipital synchondrosis [basilar suture]	
<u>Closed (>age 18-25)</u>	<u>Not Closed</u>
Lambdoid suture [parietal-occipital]	
<u>Closed (>age 45-50)</u>	<u>Not Closed</u>
Squamos suture [parietal-temporal]	
<u>Closed (>age 60-65)</u>	<u>Not Closed</u>

B. Dentition (age estimation)

Tooth Attrition

I II III IV V

Tooth Eruption Age Estimate

> 21

Skull Features		
	Male	Female
Robust	<u>YES</u>	<u>NO</u>
Supraorbital ridges	<u>HEAVY</u>	<u>LIGHT</u>
Orbit edge	<u>BLUNT</u>	<u>SHARP</u>
Parietal bossing	<u>NO</u>	<u>YES</u>
Gonion	<u>FLAT</u>	<u>POINTED</u>
Nuchal crest	<u>LARGER</u>	<u>SMALLER</u>
Zygomatic crest	<u>LONGER</u>	<u>SHORTER</u>

III. Pelvis Analysis

A. Pelvis Features (gender estimation) ♀

B. Pubic Symphysis (age estimation)

I II III IV V VI

Pelvis Features		
	Male	Female
Ventral arc	<u>YES</u>	<u>NO</u>
Subpubic angle	<u>NARROW</u>	<u>WIDE</u>
Sciatic notch	<u>NARROW</u>	<u>WIDE</u>
Medial IP ramus	<u>FLAT</u>	<u>RIDGED</u>

IV. Limb Analysis

A. Epiphyseal Union

Femur	<u>Closed (>age 17)</u>	Not Closed
Humerus	<u>Closed (>age 14)</u>	Not Closed

B. Head Diameter

Femur Head Diameter (<41.5mm=F; >45.5mm=M) 39.3

Humerus Head Diameter (<43mm=F; >48mm=M) 33.1

Observers Estimation of Age at Death 30

Observers Estimation of Gender

Female Male Indeterminate

V. Stature Estimation $[M=2.32(\text{femur length}) + 65.53; F=2.47(\text{femur length}) + 54.1]$

A. Femur length (mm) 41.9

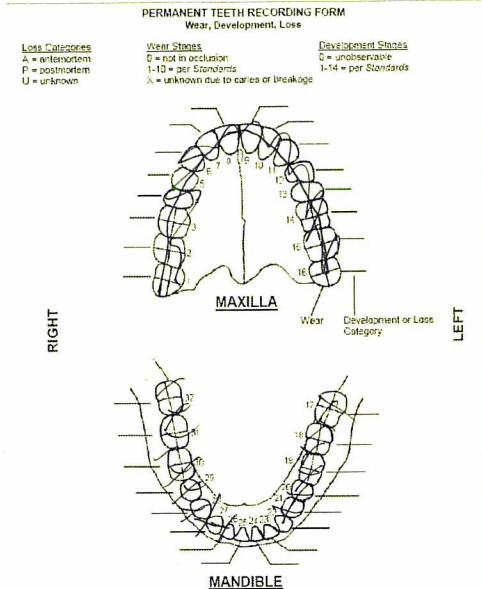
B. Humerus length (mm) 33.1

Estimate of Stature _____

VI. Pathology

- A. Osteophytosis None Slight Moderate Heavy
- B. Caries and Periodontal Disease (noted on Figure 1)
- C. Notes:

*peridontal disease loss,
tech complete except
for mandibular incisor*



VII. Samples

*few
vials.*

Observations (Artifacts, Burial situation, Textiles) *continued from front*

2013 BYU Egypt Expedition - Fag el Gamous Cemetery

Body Analysis Chart

Square 13° N 20° W Area NW Burial # 31 Date Excavated 20 March 2013
Study 25 March 2013

Observer(s) Evens

I. Overall Impression

A. Preservation Index: I II III IV V

B. Hair Color Brown

C. Observations (e.g., Artifacts, Burial Situation, Textiles) *continued on back*

bones only with ~~little~~ fragments of textile

II. Skull Analysis

A. Skull Features (gender estimation)

B. Skull Sutures (age estimation)

Sphenoccipital synchondrosis [basilar suture]

Closed (>age 18-25) Not Closed

Lambdoid suture [parietal-occipital]

Closed (>age 45-50) Not Closed

Squamos suture [parietal-temporal]

Closed (>age 60-65) Not Closed

B. Dentition (age estimation)

Tooth Attrition

I II III IV V

Tooth Eruption Age Estimate

Skull Features		
	Male	Female
Robust	<u>YES</u>	<u>NO</u>
Supraorbital ridges	<u>HEAVY</u>	<u>LIGHT</u>
Orbit edge	<u>BLUNT</u>	<u>SHARP</u>
Parietal bossing	<u>NO</u>	<u>YES</u>
Gonion	<u>FLAT</u>	<u>POINTED</u>
Nuchal crest	<u>LARGER</u>	<u>SMALLER</u>
Zygomatic crest	<u>LONGER</u>	<u>SHORTER</u>

III. Pelvis Analysis

A. Pelvis Features (gender estimation)



B. Pubic Symphysis (age estimation)

I II (III) IV V VI

Pelvis Features		
	Male	Female
Ventral arc	<u>YES</u>	<u>NO</u>
Subpubic angle	<u>NARROW</u>	<u>WIDE</u>
Sciatic notch	<u>NARROW</u>	<u>WIDE</u>
Medial IP ramus	<u>FLAT</u>	<u>RIDGED</u>

IV. Limb Analysis

A. Epiphyseal Union

Femur Closed (>age 17) Not Closed

Humerus Closed (>age 14) Not Closed

B. Head Diameter

Femur Head Diameter (<41.5mm=F; >45.5mm=M) 46.7

Humerus Head Diameter (<43mm=F; >48mm=M) 42.6

Observers Estimation of Age at Death

50 years

Observers Estimation of Gender

Female

Male

Indeterminate

V. Stature Estimation

[M=2.32(femur length) + 65.53; F=2.47(femur length) + 54.1]

A. Femur length (mm) 46.7

B. Humerus length (mm) 33.2

Estimate of Stature

VI. Pathology

- A. Osteophytosis None Slight Moderate Heavy
B. Caries and Periodontal Disease (noted on Figure 1)
C. Notes:

PERMANENT TEETH RECORDING FORM
Wear, Development, Loss

Loss Categories	Wear Scores	Development Scores
A = antenatal P = postnatal U = unknown	D = not in occlusion 1-10 = per Standards X = unknown due to caries or breakage	C = unobservable 1-14 = per Standards

MAXILLA

Wear Development or Loss Category

RIGHT

MANDIBLE

LEFT

Figure 1: Caries (marked with filled circle) and Periodontal Disease (marked with X). Antemortem tooth loss is marked as darkened tooth.

VII. Samples

Mandibular frenulum

Observations (Artifacts, Burial situation, Textiles) *continued from front*

2013 BYU Egypt Expedition - Fag el Gamous Cemetery
 Body Analysis Chart

Square 130 140 NW 20 W

Area NW

Burial # 83

Excavated 20 March 2013
 Study 25 March 2013

Observer(s) Evans

I. Overall Impression

- A. Preservation Index: I II III IV V Ab. Tech.
- B. Hair Color _____
- C. Observations (e.g., Artifacts, Burial Situation, Textiles) *continued on back*

II. Skull Analysis

- A. Skull Features (gender estimation)



- B. Skull Sutures (age estimation)

Sphenoooccipital synchondrosis [basilar suture]	
<u>Closed</u> (>age 18-25)	<u>Not Closed</u>
Lambdoid suture [parietal-occipital]	
<u>Closed</u> (>age 45-50)	<u>Not Closed</u>
Squamos suture [parietal-temporal]	
<u>Closed</u> (>age 60-65)	<u>Not Closed</u>

- B. Dentition (age estimation)

Tooth Attrition

I II III IV V

Tooth Eruption Age Estimate

721

Skull Features		
	Male	Female
Robust	<u>YES</u>	<u>NO</u>
Supraorbital ridges	<u>HEAVY</u>	<u>LIGHT</u>
Orbit edge	<u>BLUNT</u>	<u>SHARP</u>
Parietal bossing	<u>NO</u>	<u>YES</u>
Gonion	<u>FLAT</u>	<u>POINTED</u>
Nuchal crest	<u>LARGER</u>	<u>SMALLER</u>
Zygomatic crest	<u>LONGER</u>	<u>SHORTER</u>

III. Pelvis Analysis

- A. Pelvis Features (gender estimation)



- B. Pubic Symphysis (age estimation)

I II III IV V VI

Pelvis Features		
	Male	Female
Ventral arc	<u>YES</u>	<u>NO</u>
Subpubic angle	<u>NARROW</u>	<u>WIDE</u>
Sciatic notch	<u>NARROW</u>	<u>WIDE</u>
Medial IP ramus	<u>FLAT</u>	<u>RIDGED</u>

IV. Limb Analysis

- A. Epiphyseal Union

Femur	<u>Closed</u> (>age 17)	Not Closed
Humerus	<u>Closed</u> (>age 14)	Not Closed

- B. Head Diameter

Femur Head Diameter (<41.5mm=F; >45.5mm=M) 49.0

Humerus Head Diameter (<43mm=F; >48mm=M) 43.3

Observers Estimation of Age at Death

50 years

Observers Estimation of Gender

Female



Male

Indeterminate

V. Stature Estimation

$$[M=2.32(\text{femur length}) + 65.53; F=2.47(\text{femur length}) + 54.1]$$

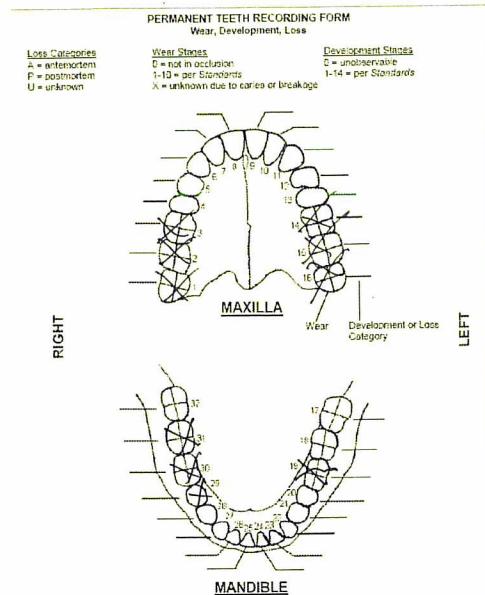
A. Femur length (mm) 44.5

B. Humerus length (mm) 31.7

Estimate of Stature _____

VI. Pathology

- A. Osteophytosis None Slight Moderate Heavy
- B. Caries and Periodontal Disease (noted on Figure 1)
- C. Notes:



VII. Samples

Observations (Artifacts, Burial situation, Textiles) *continued from front*

2009 BYU Egypt Expedition - Fag el Gamous Cemetery

Body Analysis Chart

Square 120 N
130 S Area NW Burial # 84 Date Exav. 20 March 2013
Study 20 March 2013

Observer(s) Evanis, Beshayr, Ranya, Raghda, Tamer, Negla

I. Overall Impression

A. Preservation Index: I II III IV V

B. Hair Color Brown

C. Observations (e.g., Artifacts, Burial Situation, Textiles) *continued on back*

II. Skull Analysis

A. Skull Features (gender estimation)

B. Skull Sutures (age estimation)

Sphenooccipital synchondrosis [basilar suture]

Closed (>age 18-25) *Not Closed*

Lambdoid suture [parietal-occipital]

Closed (>age 45-50) *Not Closed*

Squamos suture [parietal-temporal]

Closed (>age 60-65) *Not Closed*

B. Dentition (age estimation)

Tooth Attrition

I II III IV V

Tooth Eruption Age Estimate

13

Skull Features		
	Male	Female
Robust	YES	<u>NO</u>
Supraorbital ridges	HEAVY	<u>LIGHT</u>
Orbit edge	BLUNT	<u>SHARP</u>
Parietal bossing	NO	<u>YES</u>
Gonion	FLAT	<u>POINTED</u>
Nuchal crest	LARGER	<u>SMALLER</u>
Zygomatic crest	LONGER	<u>SHORTER</u>

III. Pelvis Analysis

A. Pelvis Features (gender estimation)

B. Pubic Symphysis (age estimation)

I II III IV V VI

VI

Pelvis Features		
	Male	Female
Ventral arc	YES	<u>NO</u>
Subpubic angle	NARROW	<u>WIDE</u>
Sciatic notch	NARROW	<u>WIDE</u>
Medial IP ramus	FLAT	<u>RIDGED</u>

IV. Limb Analysis

A. Epiphyseal Union

Femur Closed (>age 17)
Humerus Closed (>age 14)

Not Closed
Not Closed

B. Head Diameter

Femur Head Diameter (<41.5mm=F; >45.5mm=M) 45 D.F.
Humerus Head Diameter (<43mm=F; >48mm=M) 48 D.F.

Observers Estimation of Age at Death

13

Observers Estimation of Gender

Female Male Indeterminate

V. Stature Estimation $[M=2.32(\text{femur length}) + 65.53; F=2.47(\text{femur length}) + 54.1]$

A. Femur length (mm) _____

B. Humerus length (mm) _____

Estimate of Stature 160cm

VI. Pathology

B. Caries and Periodontal Disease (noted on Figure 1)

C. Notes:

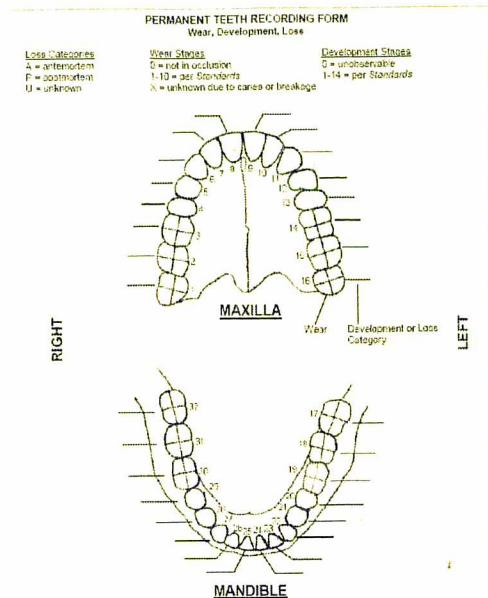


Figure 1: Caries (marked with filled circle) and Periodontal Disease (marked with X). Antemortem tooth loss is marked as darkened tooth.

VII. Samples

Observations (Artifacts, Burial situation, Textiles) continued from front

2009 BYU Egypt Expedition - Fag el Gamous Cemetery

Body Analysis Chart

Square 130 N 22 W Area NW Burial # 85 Date 20 March Excavation
21 March study

Observer(s) Eugus, Basheyr, Raniya, Rashed, Yosra, Naglaa

I. Overall Impression

- A. Preservation Index: I II III IV V
- B. Hair Color Brown

- C. Observations (e.g., Artifacts, Burial Situation, Textiles) *continued on back*

lots of long light Brown

*Mastoid process - small
 younger than 45
 older than 25*

II. Skull Analysis

- A. Skull Features (gender estimation) ?

- B. Skull Sutures (age estimation)

Sphenooccipital synchondrosis [basilar suture] <u>Closed (>age 18-25)</u>	<u>Not Closed</u>
Lambdoid suture [parietal-occipital] <u>Closed (>age 45-50)</u>	<u>Not Closed</u>
Squamos suture [parietal-temporal] <u>Closed (>age 60-65)</u>	<u>Not Closed</u>

- B. Dentition (age estimation)

Tooth Attrition

I II III IV V

Tooth Eruption Age Estimate

probably 35

Skull Features		
	Male	Female
Robust	<u>YES</u>	<u>NO</u>
Supraorbital ridges	<u>HEAVY</u>	<u>LIGHT</u>
Orbit edge	<u>BLUNT</u>	<u>SHARP</u>
Parietal bossing	<u>NO</u>	<u>YES</u>
Gonion	<u>FLAT</u>	<u>POINTED</u>
Nuchal crest	<u>LARGER</u>	<u>SMALLER</u>
Zygomatic crest	<u>LONGER</u>	<u>SHORTER</u>

III. Pelvis Analysis

- A. Pelvis Features (gender estimation) *very wide*

- B. Pubic Symphysis (age estimation)

I II III IV V VI

IV. Limb Analysis

- A. Epiphyseal Union

Femur	<u>Closed (>age 17)</u>	Not Closed
Humerus	<u>Closed (>age 14)</u>	Not Closed

- B. Head Diameter

Femur Head Diameter (<41.5mm=F; >45.5mm=M) 45.1

Humerus Head Diameter (<43mm=F; >48mm=M) 39

Pelvis Features		
	Male	Female
Ventral arc	<u>YES</u>	<u>NO</u>
Subpubic angle	<u>NARROW</u>	<u>WIDE</u>
Sciatic notch	<u>NARROW</u>	<u>WIDE</u>
Medial IP ramus	<u>FLAT</u>	<u>RIDGED</u>

Observers Estimation of Age at Death

Observers Estimation of Gender

Female Male Indeterminate

- V. Stature Estimation $[M=2.32(\text{femur length}) + 65.53; F=2.47(\text{femur length}) + 54.1]$

A. Femur length (mm) 43.7

B. Humerus length (mm) 31

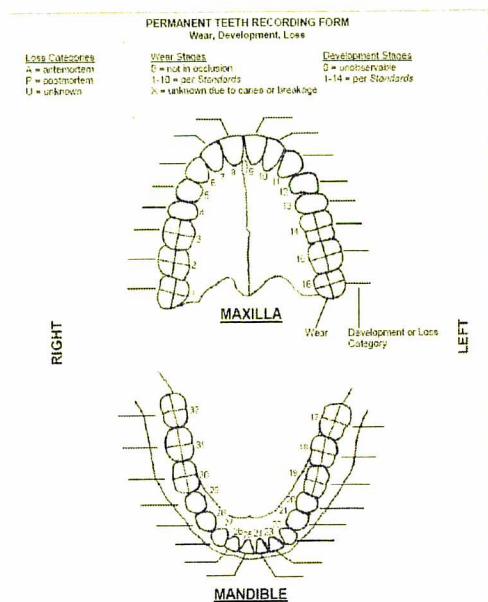
Estimate of Stature _____

VI. Pathology

A. Osteophytosis None Slight Moderate Heavy

B. Caries and Periodontal Disease (noted on Figure 1)

C. Notes:



VII. Samples

Observations (Artifacts, Burial situation, Textiles) continued from front

2013 BYU Egypt Expedition - Fag el Gamous Cemetery

Body Analysis Chart

Square 13° N 23° W Area NW Burial # 96 Date Excav 26 March 2013
Study 25 March 2013

Observer(s) Evalu

I. Overall Impression

- A. Preservation Index: I II III IV V *bones only*
- B. Hair Color ND
- C. Observations (e.g., Artifacts, Burial Situation, Textiles) *continued on back*

II. Skull Analysis.

A. Skull Features (gender estimation)

B. Skull Sutures (age estimation)

Sphenoooccipital synchondrosis [basilar suture]	
<u>Closed (> age 18-25)</u>	<u>Not Closed</u>
<u>Lambdoid suture [parietal-occipital]</u>	<u>Not Closed</u>
<i>(Closed (> age 45-50))</i>	
<u>Squamos suture [parietal-temporal]</u>	<u>Not Closed</u>
<u>Closed (> age 60-65)</u>	<u>Not Closed</u>

B. Dentition (age estimation)

Tooth Attrition *extreme periodontal disease*

I	II	III	IV	V
---	----	-----	----	---

Tooth Eruption Age Estimate

> 21

Skull Features		
	Male	Female
Robust	YES	<u>NO</u>
Supraorbital ridges	HEAVY	<u>LIGHT</u>
Orbit edge	BLUNT	<u>SHARP</u>
Parietal bossing	<u>NO</u>	YES
Gonion	FLAT	<u>POINTED</u>
Nuchal crest	LARGER	<u>SMALLER</u>
Zygomatic crest	LONGER	<u>SHORTER</u>

III. Pelvis Analysis

A. Pelvis Features (gender estimation)

Q
B. Pubic Symphysis (age estimation)

I	II	<u>III</u>	IV	V	VI
---	----	------------	----	---	----

Pelvis Features		
	Male	Female
Ventral arc	YES	<u>NO</u>
Subpubic angle	NARROW	<u>WIDE</u>
Sciatic notch	NARROW	<u>WIDE</u>
Medial IP ramus	FLAT	<u>RIDGED</u>

IV. Limb Analysis

A. Epiphyseal Union

Femur	<u>Closed (> age 17)</u>	Not Closed
Humerus	<u>Closed (> age 14)</u>	Not Closed

B. Head Diameter

Femur Head Diameter (<41.5mm=F; >45.5mm=M) 44.1
Humerus Head Diameter (<43mm=F; >48mm=M) 40.6

Observers Estimation of Age at Death

30-40 years

Observers Estimation of Gender

Female Male Indeterminate

V. Stature Estimation

$$[M=2.32(\text{femur length}) + 65.53; F=2.47(\text{femur length}) + 54.1]$$

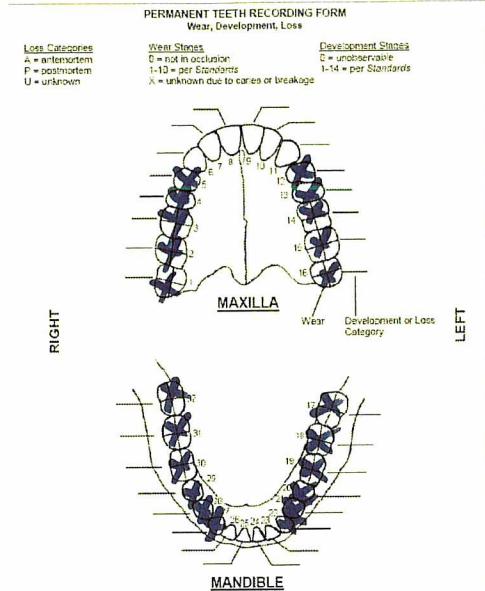
A. Femur length (mm) 44.1

B. Humerus length (mm) 29.7

Estimate of Stature _____

VI. Pathology

- A. Osteophytosis None Slight Moderate Heavy
- B. Caries and Periodontal Disease (noted on Figure 1)
- C. Notes:



VII. Samples

rib.

Observations (Artifacts, Burial situation, Textiles) *continued from front*

2013 BYU Egypt Expedition - Fag el Gamous Cemetery
 Body Analysis Chart

Square 13° N 20° E Area KW Burial # 87 Date Excavated 21 March 2013
Study 25 March 2013

Observer(s) Evanus

I. Overall Impression

- A. Preservation Index: I II III IV V
 B. Hair Color NP

C. Observations (e.g., Artifacts, Burial Situation, Textiles) *continued on back*

Femur 16.4 *dark linen fragments*
infant

H/A

II. Skull Analysis

A. Skull Features (gender estimation)

B. Skull Sutures (age estimation)

Sphenooccipital synchondrosis [basilar suture]	
<i>Closed (>age 18-25)</i>	<i>Not Closed</i>
Lambdoid suture [parietal-occipital]	
<i>Closed (>age 45-50)</i>	<i>Not Closed</i>
Squamos suture [parietal-temporal]	
<i>Closed (>age 60-65)</i>	<i>Not Closed</i>

B. Dentition (age estimation)

Tooth Attrition

I II III IV V

Tooth Eruption Age Estimate
5 years.

Skull Features	<u>H/A</u>	
	Male	Female
Robust	YES	NO
Supraorbital ridges	HEAVY	LIGHT
Orbit edge	BLUNT	SHARP
Parietal bossing	NO	YES
Gonion	FLAT	POINTED
Nuchal crest	LARGER	SMALLER
Zygomatic crest	LONGER	SHORTER

III. Pelvis Analysis

A. Pelvis Features (gender estimation)

B. Pubic Symphysis (age estimation)

I II III IV V VI

Pelvis Features	<u>H/A</u>	
	Male	Female
Ventral arc	YES	NO
Subpubic angle	NARROW	WIDE
Sciatic notch	NARROW	WIDE
Medial IP ramus	FLAT	RIDGED

IV. Limb Analysis

A. Epiphyseal Union

Femur	Closed (>age 17)	Not Closed
Humerus	Closed (>age 14)	Not Closed

B. Head Diameter

Femur Head Diameter (<41.5mm=F; >45.5mm=M) _____

Humerus Head Diameter (<43mm=F; >48mm=M) _____

Observers Estimation of Age at Death 14

Observers Estimation of Gender

Female *Male* *Indeterminate*

V. Stature Estimation $[M=2.32(\text{femur length}) + 65.53; F=2.47(\text{femur length}) + 54.1]$

A. Femur length (mm) _____

B. Humerus length (mm) _____

Estimate of Stature _____

VI. Pathology

A. Osteophytosis None Slight Moderate Heavy

B. Caries and Periodontal Disease (noted on Figure 1)

C. Notes:

teeth
filler

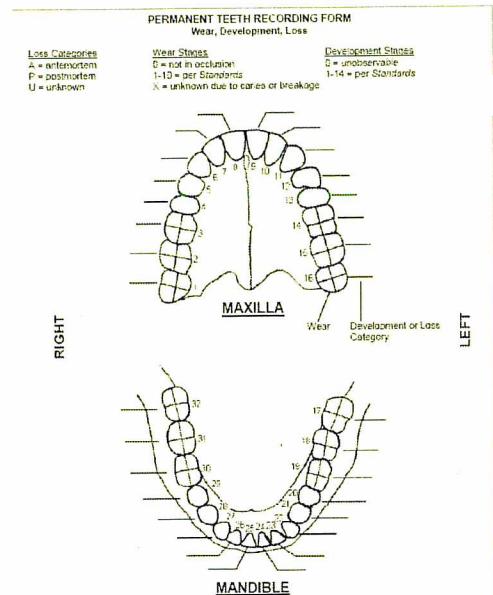


Figure 1: Caries (marked with filled circle) and Periodontal Disease (marked with X). Antemortem tooth loss is marked as darkened tooth.

Observations (Artifacts, Burial situation, Textiles) *continued from front*

2013 BYU Egypt Expedition - Fag el Gamous Cemetery
Body Analysis Chart

Square 13°N 20°W Area NIN Burial # 90 Date Excavate 21 March 2013
Study 26 March 2013

Observer(s) EVANS

I. Overall Impression

- A. Preservation Index: I II III IV V
B. Hair Color _____

C. Observations (e.g., Artifacts, Burial Situation, Textiles) *continued on back*

In basket. No textiles observed.

II. Skull Analysis

- A. Skull Features (gender estimation)

- B. Skull Sutures (age estimation)

Sphenopoccipital synchondrosis [basilar suture] <i>(Closed >age 18-25)</i>	<i>Not Closed</i>
Lambdoid suture [parietal-occipital] <i>(Closed >age 45-50)</i>	<i>Not Closed</i>
Squamos suture [parietal-temporal] <i>(Closed >age 60-65)</i>	<i>Not Closed</i>

- B. Dentition (age estimation)

Tooth Attrition
I II III IV V

Tooth Eruption Age Estimate

>21

Skull Features		
	Male	Female
Robust	<i>YES</i>	<u>NO</u>
Supraorbital ridges	<i>HEAVY</i>	<u>LIGHT</u>
Orbit edge	<i>BLUNT</i>	<u>SHARP</u>
Parietal bossing	<i>NO</i>	<u>YES</u>
Gonion	<i>FLAT</i>	<u>POINTED</u>
Nuchal crest	<i>LARGER</i>	<u>SMALLER</u>
Zygomatic crest	<i>LONGER</i>	<u>SHORTER</u>

III. Pelvis Analysis

- A. Pelvis Features (gender estimation)

Female. Sciatic notch problems

- B. Pubic Symphysis (age estimation)

I II III IV V VI

Pelvis Features		
	Male	Female
Ventral arc	<i>YES</i>	<u>NO</u>
Subpubic angle	<i>NARROW</i>	<u>WIDE</u>
Sciatic notch	<u>NARROW</u>	<i>WIDE</i>
Medial IP ramus	<i>FLAT</i>	<u>RIDGED</u>

IV. Limb Analysis

- A. Epiphyseal Union

Femur	<i>Closed (>age 17)</i>	Not Closed
Humerus	<i>Closed (>age 14)</i>	Not Closed

- B. Head Diameter

Femur Head Diameter (<41.5mm=F; >45.5mm=M) 43.8
Humerus Head Diameter (<43mm=F; >48mm=M) 40.7

Observers Estimation of Age at Death 40-50

Observers Estimation of Gender

Female Male Indeterminate

V. Stature Estimation

$$[M=2.32(\text{femur length}) + 65.53; F=2.47(\text{femur length}) + 54.1]$$

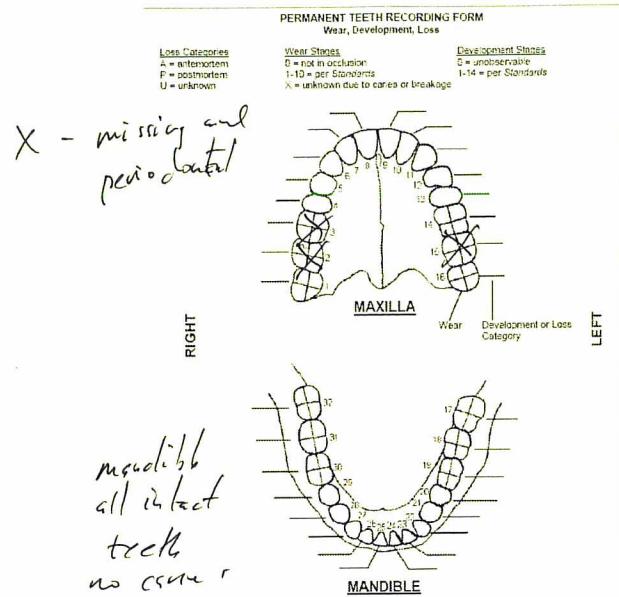
A. Femur length (mm) 41.2

B. Humerus length (mm) 28.8

Estimate of Stature 155.8

VI. Pathology

- A. Osteophytosis None Slight Moderate Heavy
- B. Caries and Periodontal Disease (noted on Figure 1)
- C. Notes:



VII. Samples

4 teeth from maxill.

Observations (Artifacts, Burial situation, Textiles) *continued from front*

2013 BYU Egypt Expedition - Fag el Gamous Cemetery

Body Analysis Chart

Square W 140 N 30 W Area N44 Burial # 92 Date Excavated 21 March 2013 Study 25 March 2013

Observer(s) Erdius

I. Overall Impression

A. Preservation Index: IV II III IV V Exquisite

B. Hair Color brown

C. Observations (e.g., Artifacts, Burial Situation, Textiles) continued on back

2 bracelets on each arm (large / small)
1 necklace with glass and other beads

II. Skull Analysis

A. Skull Features (gender estimation)

B. Skull Sutures (age estimation)

Sphenoooccipital synchondrosis [basilar suture]

Closed (>age 18-25) Not Closed

Lambdoid suture [parietal-occipital]

Closed (>age 45-50) Not Closed

Squamos suture [parietal-temporal]

Closed (>age 60-65) Not Closed

B. Dentition (age estimation)

Tooth Attrition

I II III IV V

Tooth Eruption Age Estimate

18 molar 18-24 month

Skull Features	N/A	
	Male	Female
Robust	YES	NO
Supraorbital ridges	HEAVY	LIGHT
Orbit edge	BLUNT	SHARP
Parietal bossing	NO	YES
Gonion	FLAT	POINTED
Nuchal crest	LARGER	SMALLER
Zygomatic crest	LONGER	SHORTER

III. Pelvis Analysis N/A

A. Pelvis Features (gender estimation)

B. Pubic Symphysis (age estimation)

I II III IV V VI

Pelvis Features	N/A	
	Male	Female
Ventral arc	YES	NO
Subpubic angle	NARROW	WIDE
Sciatic notch	NARROW	WIDE
Medial IP ramus	FLAT	RIDGED

IV. Limb Analysis N/A

A. Epiphyseal Union

Femur	Closed (>age 17)	Not Closed
Humerus	Closed (>age 14)	Not Closed

B. Head Diameter

Femur Head Diameter (<41.5mm=F; >45.5mm=M) _____

Humerus Head Diameter (<43mm=F; >48mm=M) _____

Female.

Observers Estimation of Age at Death

1.5 - 2 years

Not. long brown hair
braids clothing style

Observers Estimation of Gender

Female Male Indeterminate

V. Stature Estimation

[M=2.32(femur length) + 65.53; F=2.47(femur length) + 54.1]

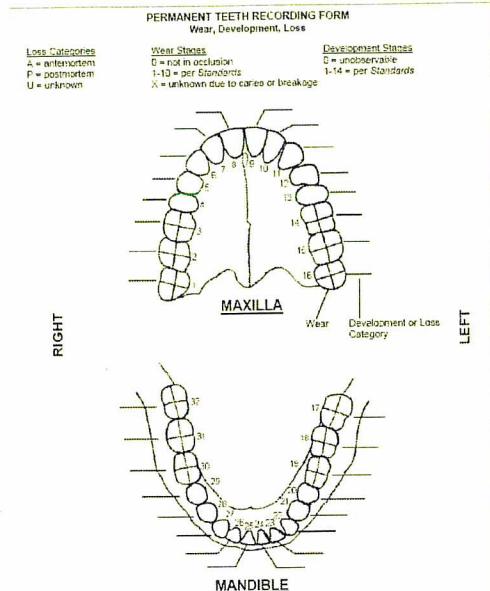
A. Femur length (mm)

B. Humerus length (mm)

Estimate of Stature

VI. Pathology

- A. Osteophytosis None Slight Moderate Heavy
- B. Caries and Periodontal Disease (noted on Figure 1)
- C. Notes:



VII. Samples

ribs
shoulder
entire tongue

Observations (Artifacts, Burial situation, Textiles) *continued from front*

2013 BYU Egypt Expedition - Fag el Gamous Cemetery

Body Analysis Chart

Square 130 N 140 W Area NW Burial # 93 Date Excavate 21 March 2013
208 study 25 March 2013

Observer(s) Evanus

I. Overall Impression

- A. Preservation Index: I II III IV V
- B. Hair Color Brown

C. Observations (e.g., Artifacts, Burial Situation, Textiles) *continued on back*

II. Skull Analysis

A. Skull Features (gender estimation) ♀

B. Skull Sutures (age estimation)

Spheunooccipital synchondrosis [basilar suture]	
<u>Closed (>age 18-25)</u>	<u>Not Closed</u>
Lambdoid suture [parietal-occipital]	
<u>Closed (>age 45-50)</u>	<u>Not Closed</u>

Squamos suture [parietal-temporal]	
<u>Closed (>age 60-65)</u>	<u>Not Closed</u>

B. Dentition (age estimation)

Tooth Attrition

I II III IV V

Tooth Eruption Age Estimate

> 21

Skull Features		
	Male	Female
Robust	<u>YES</u>	<u>NO</u>
Supraorbital ridges	<u>HEAVY</u>	<u>LIGHT</u>
Orbit edge	<u>BLUNT</u>	<u>SHARP</u>
Parietal bossing	<u>NO</u>	<u>YES</u>
Gonion	<u>FLAT</u>	<u>POINTED</u>
Nuchal crest	<u>LARGER</u>	<u>SMALLER</u>
Zygomatic crest	<u>LONGER</u>	<u>SHORTER</u>

III. Pelvis Analysis

A. Pelvis Features (gender estimation) ♀

B. Pubic Symphysis (age estimation)

I II III IV V VI

IV. Limb Analysis

A. Epiphyseal Union

Femur	<u>Closed (>age 17)</u>	Not Closed
Humerus	<u>Closed (>age 14)</u>	Not Closed

B. Head Diameter

Femur Head Diameter (<41.5mm=F; >45.5mm=M) 39.0

Humerus Head Diameter (<43mm=F; >48mm=M) 36.9

Pelvis Features		
	Male	Female
Ventral arc	<u>YES</u>	<u>NO</u>
Subpubic angle	<u>NARROW</u>	<u>WIDE</u>
Sciatic notch	<u>NARROW</u>	<u>WIDE</u>
Medial IP ramus	<u>FLAT</u>	<u>RIDGED</u>

Observers Estimation of Age at Death

30

Observers Estimation of Gender

Female Male Indeterminate

V. Stature Estimation

[M=2.32(femur length) + 65.53; F=2.47(femur length) + 54.1]

A. Femur length (mm) 41.6

B. Humerus length (mm) 28.7

Estimate of Stature _____

VI. Pathology

- A. Osteophytosis None Slight Moderate Heavy
- B. Caries and Periodontal Disease (noted on Figure 1)
- C. Notes:

No caries
No periodontal

VII. Samples

no filled teeth

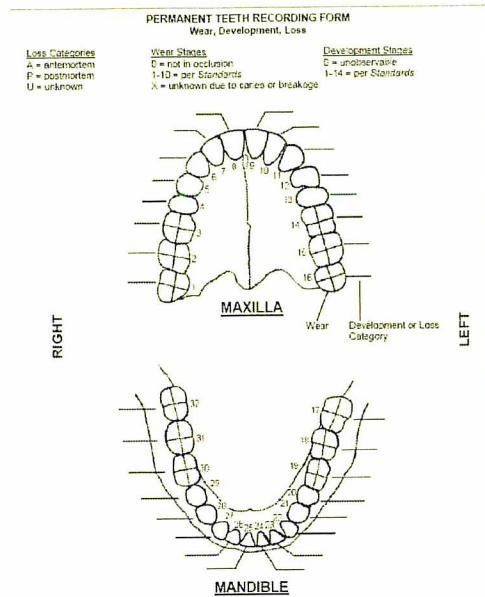


Figure 1: Caries (marked with filled circle) and Periodontal Disease (marked with X). Antemortem tooth loss is marked as darkened tooth.

Observations (Artifacts, Burial situation, Textiles) *continued from front*

2013 BYU Egypt Expedition - Fag el Gamous Cemetery

Body Analysis Chart

Square 13²
14² N 20 W Area NW Burial # 94 Date excav 21 March 2013
study 25 March 2013

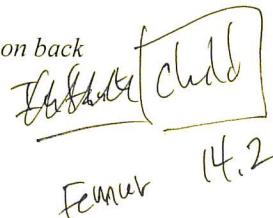
Observer(s) Evelyn

I. Overall Impression

- A. Preservation Index: I II III IV V
- B. Hair Color Brown

C. Observations (e.g., Artifacts, Burial Situation, Textiles) *continued on back*

coarse textile fragments



N/A

II. Skull Analysis

- A. Skull Features (gender estimation)

- B. Skull Sutures (age estimation)

Sphenoooccipital synchondrosis [basilar suture]	
<i>Closed (>age 18-25)</i>	<i>Not Closed</i>
Lambdoid suture [parietal-occipital]	
<i>Closed (>age 45-50)</i>	<i>Not Closed</i>
Squamos suture [parietal-temporal]	
<i>Closed (>age 60-65)</i>	<i>Not Closed</i>

- B. Dentition (age estimation)

Tooth Attrition

I	II	III	IV	V
Tooth Eruption Age Estimate				

(= under erupted)

Skull Features <u>H/A</u>		
	Male	Female
Robust	<i>YES</i>	<i>NO</i>
Supraorbital ridges	<i>HEAVY</i>	<i>LIGHT</i>
Orbit edge	<i>BLUNT</i>	<i>SHARP</i>
Parietal bossing	<i>NO</i>	<i>YES</i>
Gonion	<i>FLAT</i>	<i>POINTED</i>
Nuchal crest	<i>LARGER</i>	<i>SMALLER</i>
Zygomatic crest	<i>LONGER</i>	<i>SHORTER</i>

III. Pelvis Analysis

- A. Pelvis Features (gender estimation)

- B. Pubic Symphysis (age estimation)

I	II	III	IV	V	VI
---	----	-----	----	---	----

Pelvis Features <u>H/A</u>		
	Male	Female
Ventral arc	<i>YES</i>	<i>NO</i>
Subpubic angle	<i>NARROW</i>	<i>WIDE</i>
Sciatic notch	<i>NARROW</i>	<i>WIDE</i>
Medial IP ramus	<i>FLAT</i>	<i>RIDGED</i>

IV. Limb Analysis

- A. Epiphyseal Union

Femur	<i>Closed (>age 17)</i>	Not Closed
Humerus	<i>Closed (>age 14)</i>	Not Closed

- B. Head Diameter

Femur Head Diameter ($<41.5\text{mm}=F; >45.5\text{mm}=M$) _____

Humerus Head Diameter ($<43\text{mm}=F; >48\text{mm}=M$) _____

Frontal / Parietal Suture fused.

Observers Estimation of Age at Death

4 years.

Observers Estimation of Gender

Female Male Indeterminate

- X. Stature Estimation

[$M=2.32(\text{femur length}) + 65.53; F=2.47(\text{femur length}) + 54.1$]

A. Femur length (mm) _____

B. Humerus length (mm) _____

Estimate of Stature _____

VI. Pathology

- A. Osteophytosis None Slight Moderate Heavy
- B. Caries and Periodontal Disease (noted on Figure 1)
- C. Notes:

VII. Samples

*Teeth
rim
Xv4w*

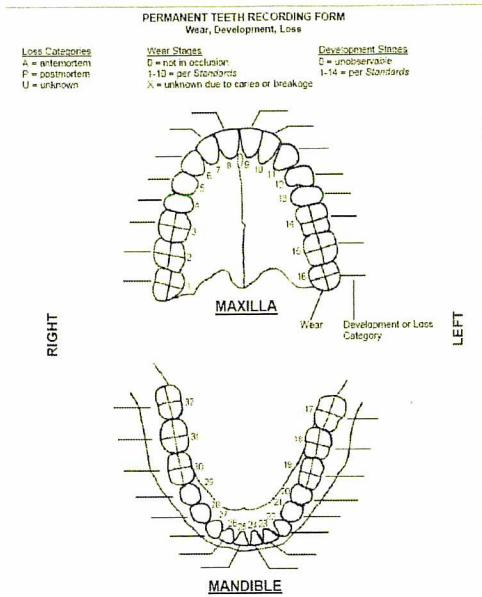


Figure 1: Caries (marked with filled circle) and Periodontal Disease (marked with X). Antemortem tooth loss is marked as darkened tooth.

Observations (Artifacts, Burial situation, Textiles) *continued from front*

2013 BYU Egypt Expedition - Fag el Gamous Cemetery
Body Analysis Chart

Square _____ Area _____ Burial # _____ Date _____

Observer(s) _____

I. Overall Impression

A. Preservation Index: I II III IV V

B. Hair Color _____

C. Observations (e.g., Artifacts, Burial Situation, Textiles) *continued on back*

II. Skull Analysis

A. Skull Features (gender estimation)

B. Skull Sutures (age estimation)

 Sphenoooccipital synchondrosis [basilar suture]
Closed (>age 18-25) *Not Closed*

 Lambdoid suture [parietal-occipital]
Closed (>age 45-50) *Not Closed*

 Squamos suture [parietal-temporal]
Closed (>age 60-65) *Not Closed*

B. Dentition (age estimation)

 Tooth Attrition

 I II III IV V

 Tooth Eruption Age Estimate

Skull Features		
	Male	Female
Robust	<i>YES</i>	<i>NO</i>
Supraorbital ridges	<i>HEAVY</i>	<i>LIGHT</i>
Orbit edge	<i>BLUNT</i>	<i>SHARP</i>
Parietal bossing	<i>NO</i>	<i>YES</i>
Gonion	<i>FLAT</i>	<i>POINTED</i>
Nuchal crest	<i>LARGER</i>	<i>SMALLER</i>
Zygomatic crest	<i>LONGER</i>	<i>SHORTER</i>

III. Pelvis Analysis

A. Pelvis Features (gender estimation)

B. Pubic Symphysis (age estimation)

 I II III IV V VI

Pelvis Features		
	Male	Female
Ventral arc	<i>YES</i>	<i>NO</i>
Subpubic angle	<i>NARROW</i>	<i>WIDE</i>
Sciatic notch	<i>NARROW</i>	<i>WIDE</i>
Medial IP ramus	<i>FLAT</i>	<i>RIDGED</i>

IV. Limb Analysis

A. Epiphyseal Union

Femur	Closed (>age 17)	Not Closed
Humerus	Closed (>age 14)	Not Closed

B. Head Diameter

Femur Head Diameter (<41.5mm=F; >45.5mm=M) _____

Humerus Head Diameter (<43mm=F; >48mm=M) _____

Observers Estimation of Age at Death

Observers Estimation of Gender

Female *Male* *Indeterminate*

V. Stature Estimation $[M=2.32(\text{femur length}) + 65.53; F=2.47(\text{femur length}) + 54.1]$

A. Femur length (mm) _____

B. Humerus length (mm) _____

Estimate of Stature _____

VI. Pathology

B. Caries and Periodontal Disease (noted on Figure 1)

C. Notes:

PERMANENT TEETH RECORDING FORM		
Wear, Development, Loss		
Loss Categories	Wear Scores	Development Scores
A = antemortem P = postmortem U = unknown	P = not in occlusion 1-10 = per Standards X = unknown due to caries or breakage	D = nonrestorative 1-14 = per Standards
<p>MAXILLA</p> <p>Wear</p> <p>Development or Loss Category</p>		
RIGHT	<p>MANDIBLE</p>	

Figure 1: Caries (marked with filled circle) and Periodontal Disease (marked with X). Antemortem tooth loss is marked as darkened tooth.

VII. Samples

Observations (Artifacts, Burial situation, Textiles) continued from front