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1996

PVN Op 175 Osteological Analyses

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Kenyon College
 NACO VALLEY ARCHAEOLOGICAL PROJECT
 Burial Summary Form

Site: 175E Burial ID # 8-2
 (LOT) Unit: 7 Level: #64 Excavator:
 Date: 2/16/96

Burial Description

Single Individual: Multiple Individuals:

Age: Adult (age undetermined)

In utero-Neonate Infant (birth-2.9 yrs) Subadult (3-11.9 yrs) Adolescent (12-19.9 yrs) Young Adult (20-34.9 yrs) Middle Adult (35-50 yrs) Old Adult (50+ yrs) Adult (Adult age undetermined) Undetermined

Sex: 0 = Undetermined sex
1 = Female
2 = Probable Female
3 = Ambiguous sex
4 = Probable male
5 = Male

10 grams cranial frags
sample removed
3/25/96

Mean Age: 35 yrs

Preserved Remains: $\frac{F}{F}$ Cranial Post Cranial

Code: Complete (>75%)
 PC (partially complete)
 Fragmentary (<25%)
 NP (not present)

Preservation Quality: $\frac{M}{M}$ Cranial Post Cranial

Code: 6 (good)
M (moderate)
P (poor)
 NP (not present)

Burial Description Summary: (Pathology etc.)

Pericarditis present on left and right. Right fibrous sheath
osteomyelitic reaction with abscess formation. Rt. femur diaphysis
present but extremely rare. No abnormal bone formation
cranial fragments. Spine intact. - signs difficult to discern

Kenyon College
 NACO VALLEY ARCHAEOLOGICAL PROJECT
 Burial Excavation Notes

Date of Excavation: 4/24/95
 Excavator: #64
 Site: 175E/7
 Unit: Level: Provenience: Burial ID # S-2

Burial Orientation: _____
 Field Age assessment: _____
 Field Sex assessment: _____

Associated Funerary Remains: Found in lab with bones:
 Lechert flake, 1 rock, 2 small shards, 1 piece of "yellow"
 Bajareque

General Excavation Notes:

In-lab excavation from matrix Feb 5, 1996

Two plastic bags, both with white tags marked "175E/7" (64). One bag contained mainly long bones, previously excavated from matrix, along with an almost complete talus. The other bag contained some loose cranial bone, and two grapefruit sized samples of matrix. The soil present on the bones and in the matrix seemed to be of a somewhat sandy texture. cursory examination of the bones indicates large portions of the fibula, and small portions of the tibia to be present. The left tibial diaphysis shows sclerotic periostitis along the entire medial length. The right tibial diaphysis shows sclerotic periostitis along the medial and lateral proximal 1/2. Also seen on the medial proximal 1/3 diaphysis of the right tibia is a 2.5cm area, indicating the presence of osteomyelitis in this bone. Portions of the femora may also be present. This will be determined from reconstruction of the fragmentary elements. (These possible femur frags. appear to have been redunt ground.)

INVENTORY RECORDING FORM FOR COMPLETE SKELETONS

Site Name/Number: 175-F 1 7
 Feature/Burial Number: 1
 Burial/Skeleton Number: 8-2
 Date: 2/16/96
 Observer: S. Woodward
 Present Location of Collection: Corradia, Cortes, Honduras

CRANIAL BONES AND JOINT SURFACES

| | | |
|-----------|----------|-----------|
| | L (left) | R (right) |
| Frontal | 3 | 3 |
| Parietal | 3 | 3 |
| Occipital | 3 | 3 |
| Temporal | 3 | 3 |
| TMJ | | |

POSTCRANIAL BONES AND JOINT SURFACES

| | | |
|-------------|---|---|
| | L | R |
| Clavicle | / | / |
| Scapula | / | / |
| Body | / | / |
| Glennoid f. | / | / |
| Patella | / | / |
| Sacrum | / | / |

VERTEBRAE (grouped)

#Present/#Complete
 Centra
 Neural Arches
 C3-6
 T1-T9

VERTEBRAE (Individual)

C1
 C2
 C7
 T10
 T11
 T12
 L1
 L2
 L3
 L4
 L5

STERNUM: Manubrium Body

RIBS (grouped)
 #Present/#Complete
 L
 R
 Unsided
 3-10

RIBS (Individual)

1st
 2nd
 11th
 12th

Too fragmentary for non metrics

All Misc. cranial fragments greater than 8cm diam = 168g
 200 Unidentifiable bone fragments (less than 2cm diam) = 124g
 80 Long bone fragments = 25g

Comments:

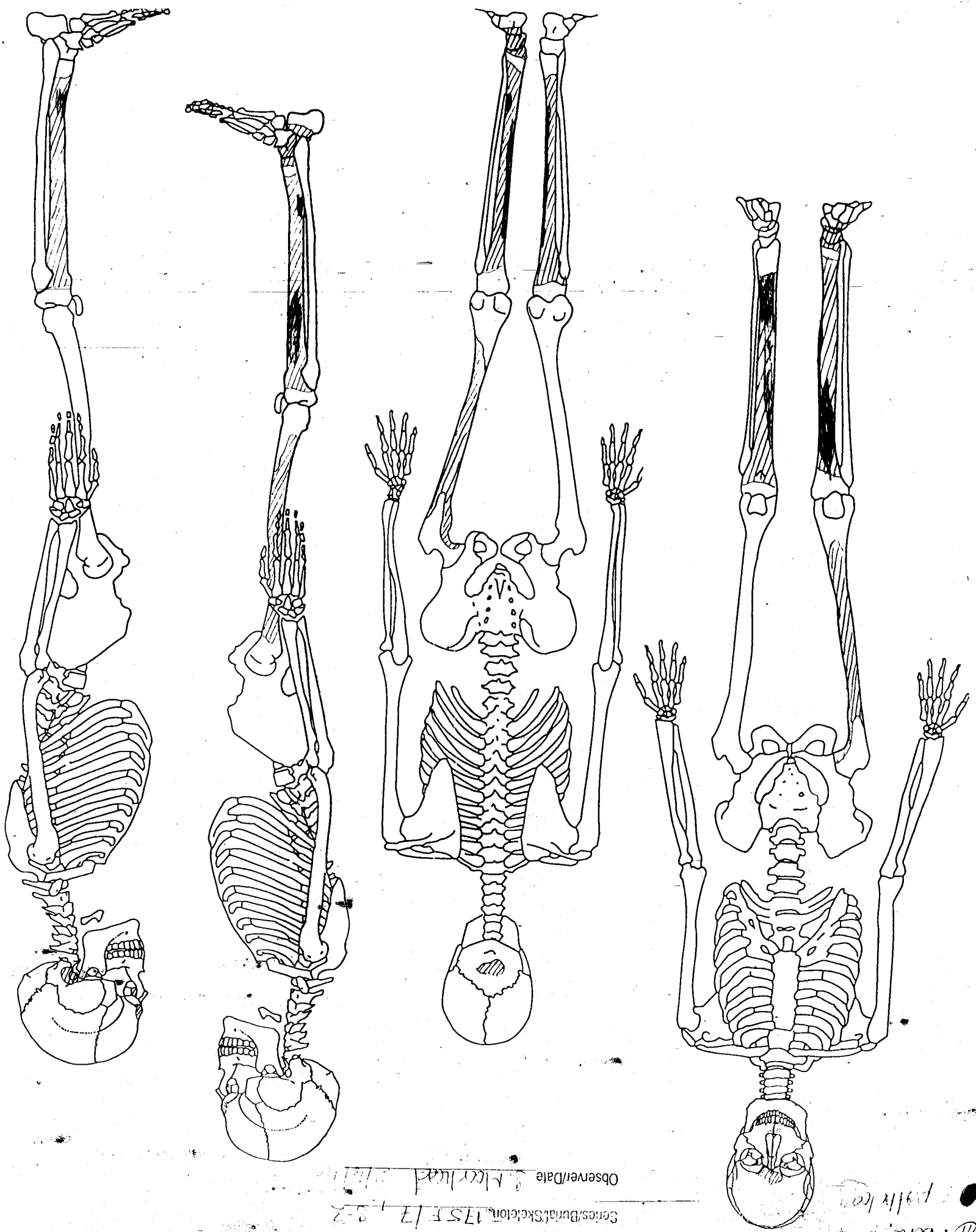
| | | | | |
|------------------------------------|-------|-------|---------|-------|
| #Phalanges | _____ | _____ | _____ | _____ |
| #Metacarpals | _____ | _____ | _____ | _____ |
| #Carpals | _____ | _____ | _____ | _____ |
| | L | R | Unsided | |
| HAND (# Present/# Complete) | | | | |
| #Tarsals | _____ | _____ | _____ | _____ |
| #Metatarsals | _____ | _____ | _____ | _____ |
| #Phalanges | _____ | _____ | _____ | _____ |
| | L | R | Unsided | |
| FOOT (# Present/# Complete) | | | | |

- Left Humerus
- Right Humerus
- Left Radius
- Right Radius
- Left Ulna
- Right Ulna
- Left Femur
- Right Femur
- Left Tibia
- Right Tibia
- Left Fibula
- Right Fibula
- Left Talus
- Right Talus
- Left Calcaneus
- Right Calcaneus

| | | | | |
|-----------|-------|-------|-------|-------|
| Proximal | _____ | _____ | _____ | _____ |
| Middle | _____ | _____ | _____ | _____ |
| Distal | _____ | _____ | _____ | _____ |
| Diaphysis | _____ | _____ | _____ | _____ |
| Proximal | _____ | _____ | _____ | _____ |
| Middle | _____ | _____ | _____ | _____ |
| Distal | _____ | _____ | _____ | _____ |
| Epiphysis | _____ | _____ | _____ | _____ |
| Proximal | _____ | _____ | _____ | _____ |
| Middle | _____ | _____ | _____ | _____ |
| Distal | _____ | _____ | _____ | _____ |
| Epiphysis | _____ | _____ | _____ | _____ |

Series/Burial/Skeleton: JSF/7, S-2
 Observer/Date: S. Moorhead

LONG BONES



Series/Burial/Skeleton, 175E/17, 8-2
 Observer/Date, H. L. ...

① = bone, print
 = path/leg

The only elements available are fibial diaphyses, a complete talus, and a very rodent gnawed femur diaphyses. Unfortunately, the fibial diaphyses both exhibit periostitis and for osteomyelitis (see pathology section for this individual) rendering any attempt at seeing them a guess at best.

Without further investigations of the excavation notes from this individual, an indeterminate sex will be assigned to this individual. The excavation notes will be examined for this individual when they are available. Estimated width and length in mm of the right talus will also be taken in hope of comparing it to another individual from the valley.

Comments:

Estimated Sex, Skull (0-5) _____

Estimated Sex, Pelvis (0-5) _____

for sex determination

| Skull | Pelvis |
|--|--|
| <p>Nuchal Crest (1-5) _____</p> <p>Mastoid Process (1-5) _____</p> <p>Supraorbital Margin (1-5) _____</p> <p>Glabella (1-5) _____</p> <p>Mental Eminence (1-5) _____</p> <p>Estimated Sex, Skull (0-5) _____</p> | <p>Ventral Arc (1-3) _____</p> <p>Subpubic Concavity (1-3) _____</p> <p>Ischiopubic Ramus Ridge (1-3) _____</p> <p>Greater Sciatic Notch (1-5) _____</p> <p>Praeuricular Sulcus (0-4) _____</p> <p>Estimated Sex, Pelvis (0-5) _____</p> |

SEX: L R L R

Site Name/Number: 175 F 1 7

Observer: S. Moorhead

Feature/Burial Number: 1

Date: 2/16/96

Burial/Skeleton Number: 8-2

Present Location of Collection: Cofratia, Cortes, Honduras

ADULT SEX/AGE RECORDING FORM

Dist. fibial epiphysis completely fused \Rightarrow +20 yrs

All other epiphyseal ends missing. All that can be concluded for this individual is that he/she is an adult. A specific age category cannot be assigned from the elements present.

Comments:

Estimated Age: Young Adult (20-35 years) _____
 Middle Adult (35-50 years) _____
 Old Adult (50+ years) _____

| External | Cranial | Vault | Palate | Internal | Cranial | Vault |
|-----------------------------|------------------|----------------------------|-------------------------------|-------------------------|-------------------|------------------|
| 1. Midlambdoid | 2. Lambda | 3. Obelion | 11. Incisive | 15. Sagittal | 16. Left Lambdoid | 17. Left Coronal |
| 4. Anterior Sagittal | 5. Bregma | 6. Midcoronal | 12. Anterior Median Palatine | 14. Transverse Palatine | | |
| 7. Pterion | 8. Sphenofrontal | 9. Inferior Sphenotemporal | 13. Posterior Median Palatine | | | |
| 10. Superior Sphenotemporal | | | | | | |

Suture Closure (blank = unobservable; 0 = open; 1 = minimal; 2 = significant; 3 = complete)

| Pubic Symphysis | Age | Auricular Surface (1-8) |
|---------------------|-----|-------------------------|
| Todd (1-10) | | |
| Suchey-Brooks (1-6) | | |
| L | | L |
| R | | R |

Series/Burial/Skeleton 17SE17-8-2
 Observer/Date S. Moorhead 2/16/76

Series/Burial/Skeleton 175 F/T, S-2
 Observer/Date S. Moorhead 2/6/910

I) Measurements

- No measurements taken from femur diaphysis due to extreme rodent gnawing.
- Measurements taken from tibiae are skewed due to the present of abnormal bone growth (periostitis, osteomyelitis)
- Measurements of width and length taken from right tibia in order to possibly determine sex for this individual at a later date.

| | Rt. tibia | left tibia |
|---|-----------|------------|
| (72) Max. diam. at nutrient foramen | 37.98 mm | 33.94 mm |
| (73) Med-lat. diam. at nutrient foramen | 24.32 mm | 21.32 mm |
| (74) Circumference at Nutrient Foramen | 98.0 mm | 86.0 mm |

Standards p. 83

II) Pathology

Abnormal bone formation:

- Both woven; sclerotic reaction evident on right fibial proximal 1/3 diaphysis, medial, anterior, and lateral surfaces. The cortex is perforated on the anterior medial prox. 1/3 diaphysis due to a cloaca. The beginning of another cloaca can also be seen on this lower distal 1/3 diaphysis on the posterior-lateral portion along the interosseous crest.
- Both woven; sclerotic reaction evident on left fibial (total) diaphysis, medial surface and on the distal 1/3 diaphysis anterior and lateral surfaces.

So. Park

Rt. femur diaphysis is extremely red and granular, but no evidence of periostitis or osteomyelitis is observed. The right tibia exhibits the most pronounced infection possibly indicating trauma to the anterior surface. The presence of woven and sclerotic bone formation in the left tibia indicates a systemic infection present in the body. Whether or not this infection originated with a trauma to the right tibia or was of hematogenous origin is difficult to discern from the skeletal elements present.

No abnormal bone formation observed on cranial fragments.

Additional comments:

175F/T, S-2
S. Moorhead 2/6/96