

A RE-EVALUATION AND REVISION OF PUBIC SYMPHYSIS AND FOURTH
RIB AGING TECHNIQUES

by

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A Dissertation Presented in Partial Fulfillment
of the Requirements for the Degree
Doctor of Philosophy

ARIZONA STATE UNIVERSITY

May 2007

APPENDIX G

REVISED MORPHOLOGICAL GROUP DESCRIPTIONS FOR THE FEMALE
RIB ENDS AND PHOTOGRAPHS OF A TYPE SPECIMEN FOR EACH GROUP

*** Bone quality is a major determining factor in placing each specimen in a group. An individual may be moved up or down phases based solely on bone quality.***

Group 1, Females.

Group	Count	Mean	St. Dev.	Max.	Min.	Range
1	7	19.57	1.67	22	18	18-22

- *Pit is shallow and flat.
- *There are billows in pit.
- The pit is shallow U-shaped in cross section.
- The bone is very firm and solid, smooth to the touch, dense, and of good quality.
- The walls of the rim are thick.
- The rim may show the beginnings of scalloping.

(*) Indicates characteristic traits for each group.



Group 2, Females.

Group	Count	Mean	St. Dev.	Max.	Min.	Range
2	7	25.14	1.17	27	24	24-27

- *There is an indentation to the pit.
- *The pit is V-shaped in cross section.
- *The rim is well-defined and the edges are round.
- The rim is regular with some scalloping.
- The central arc, which manifests on the anterior and posterior walls as a semicircular curve, is visible.
- The bone is firm and solid, smooth to the touch, dense, and of good quality.
- There is no flare to the rim edges; they are parallel to each other.
- The pit is smooth inside, with little to no porosity and vestiges of billowing.

(*) Indicates characteristic traits for each group.

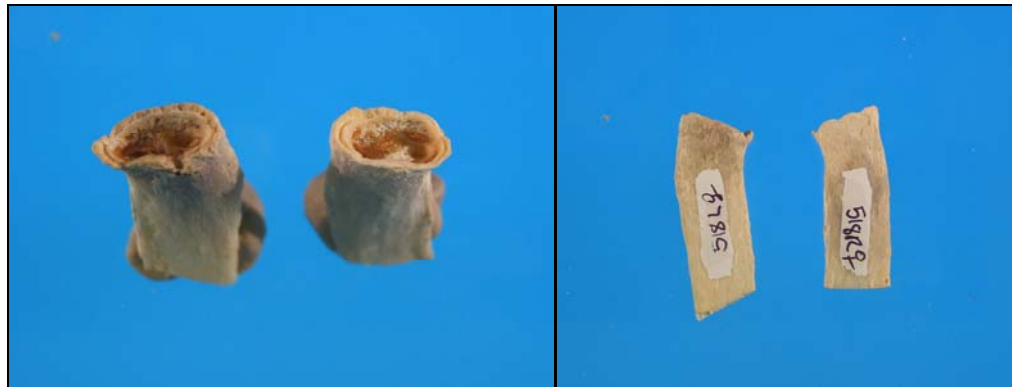


Group 3, Females.

Group	Count	Mean	St. Dev.	Max.	Min.	Range
3	22	32.95	3.17	38	27	27-38

- *The pit is wide V to U-shaped.
- *There is a slight flare to the rim edges.
- *In most cases, there is a build-up of bony plaque, either in the bottom of the pit, or lining the interior of the pit, creating the appearance of a two-layer rim.
- The rim edges are becoming undulating and slightly irregular.
- An irregular central arc is apparent in many cases.
- There may be remnants of scallops, but they look worn down.
- There are no bony projections from the rim.
- There is porosity inside the pit.
- The bone quality is good; it is firm, solid, and smooth to the touch.
- The rim edges are rounded, but sharp.

(*) Indicates characteristic traits for each group.

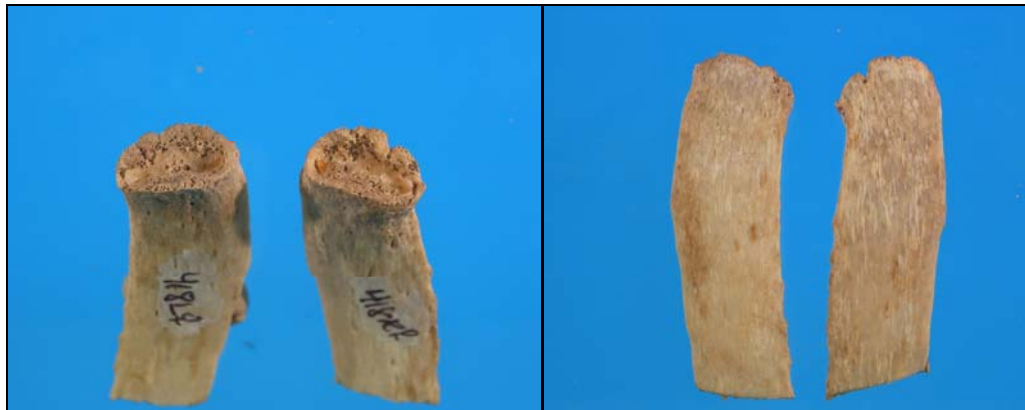


Group 4, Females

Group	Count	Mean	St. Dev.	Max.	Min.	Range
4	21	43.52	3.08	49	39	39-49

- *The pit is deep and U-shaped.
- *The edges of the pit flare outwards, expanding the oval area inside the pit.
- The rim edges are not undulating or scalloped, but are irregular.
- There are no long bony projections from the rim.
- The rim edges are thin, but firm.
- The central arc may be present and irregular; however, the superior and inferior edges of the rim have developed, decreasing the prominence of the central arc.
- The bone quality is good, but does not feel dense or heavy
- There is porosity inside the pit.

(*) Indicates characteristic traits for each group.

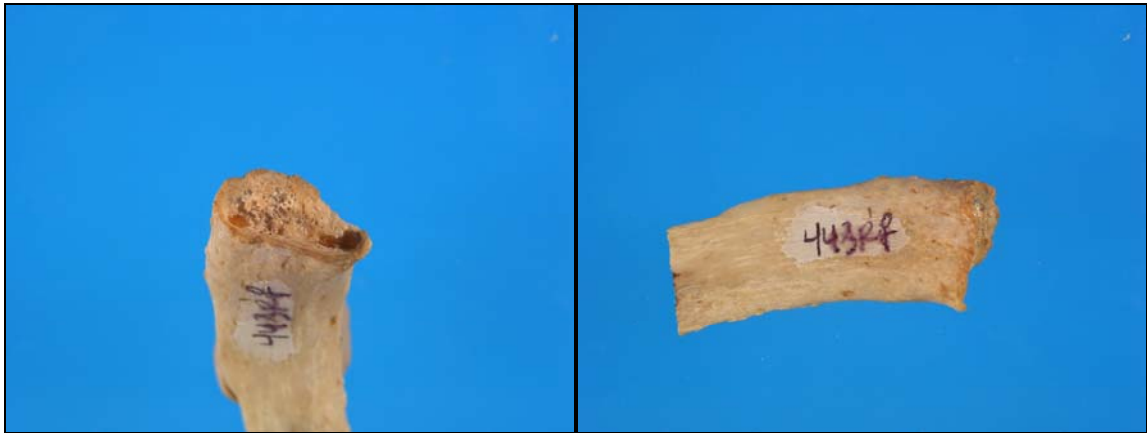


Group 5, Females.

Group	Count	Mean	St. Dev.	Max.	Min.	Range
5	32	51.69	3.31	58	47	47-58

- *The rim edges are irregular, flared, sharp, and thin.
- *There are occasionally small bony projections along the rim edges, especially at the superior and inferior edges of the rim.
- *The bone quality is fair; the bone is coarse to the touch and feels lighter than it looks.
- The central arc is not prominent.
- The pit is deep and U-shaped.
- There is porosity inside the pit.
- There are no bony growths or projections inside the pit.

(*) Indicates characteristic traits for each group.



Group 6, Females.

Group	Count	Mean	St. Dev.	Max.	Min.	Range
6	18	67.17	3.41	73	60	60-73

- *The bone quality is fair to poor.
- *The surfaces of the bone feel coarse and brittle.
- *The bone is lightweight.
- *There may be bony projections inside the pit and along the rim edges, which are usually less than 1 cm in length.
- The rim is very irregular, thin, and fragile.
- The pit is deep and U-shaped.
- There is porosity inside the pit.

(*) Indicates characteristic traits for each group.



Group 7, Females.

Group	Count	Mean	St. Dev.	Max.	Min.	Range
7	71	81.20	6.95	99	65	65-99

- *The bone is very poor quality, and, in many cases, translucent.
- *The bone is very light, sometimes feeling like paper.
- *The bone feels very coarse and brittle to the touch.
- There are frequently long bony growths inside the pit.
- The rim is very irregular and may have long bony projections, especially at the superior and inferior edges of the rim.
- The pit is deep and U-shaped, although in many cases it is obscured by ossification of the cartilage.
- In some cases, much of the cartilage in the interior of the pit has ossified into a bony projection extending more than 1 cm in length.

(*) Indicates characteristic traits for each group.

