

THE COMPOSITE METHOD ©

Female

To Estimate Age Using The Composite Method:

Find the pubic symphysis for the individual in question, isolate either the left or right os pubis, and locate its "face."

Looking at that face directly, locate the Upper Boundary as illustrated (right).

Consult the descriptions and images under the "Upper Boundary" heading and choose the column that most closely fits the individual in question.

Note the number below that column and reserve it for later.

Continue steps 1-4 for each component (Lower Boundary, Outline, Surface Texture, and Topography). Components may be assessed in any order (order preference will not affect outcome).

To assign the density adjustment, find the axial image in which the symphysis is at its widest and choose the "Density" illustration (top) that best matches it.

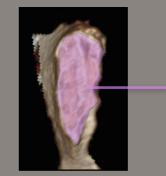
Once numbers for all 5 components plus the density adjustment have been assigned, add them and retain the sum.

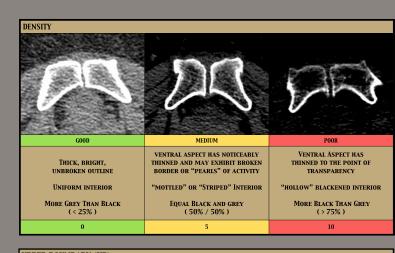
| Retain the number listed below each column - | | | | | | | | | | | | | | |
|--|------|-----|---|---|---|---|----|----|----|--------|----|----|----|--|
| Com | pone | nt: | | | | | | | | \sim | | | | |
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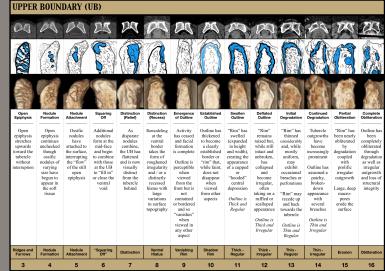


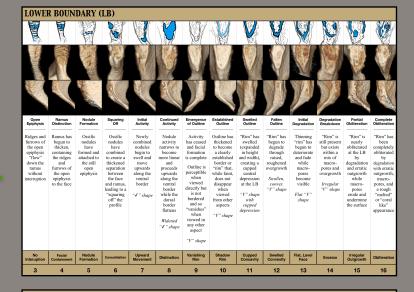


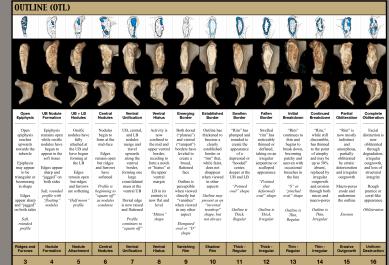


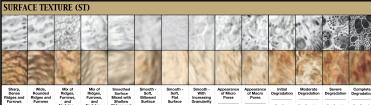






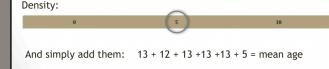






8

9



Add and subtract half of the population appropriate prediction envelope to either side of the sum, respectively.

The range produced is the estimated age for that individual.

Age may also be estimated by regression For a free calculator, please visit:

https://tcmtechnique.vercel.app/

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| 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
|---|--|---|--|---|---|---|---|---|--|--|--|---|---|
| Sharp Ridges and Furrows | Rounded Ridges and Furrows | Disorder | Filled in Furrows | Gentle Waves | Billowed Surface | Flat Surface | Increasing Granularity | Micropores | Macropores | Sinkholes | ~ 50% Degradation | ~ 75% Degradation | ~ 100% Degradatio |
| Sharp, thinly peaked and densely packed furrows present across the entirety of the open epiphysis | Thick, rounded ridges with widening furrows present across the entirety of the open epiphysis | Nodules - Disorganizado Ridges and furrows are interrupted by erratic nodule activity, creating a "jumbled" or disordered appearance for later stages | Nodules - Organized Nodule activity begins to "plump up" or "fill in" remaining furrows hallowed but have returned to order | Ridges and Furrows Continue to "fill in," creating an irregular mix of smoothness and gently rolling surface "waves" | Irregularity due to remodeling has ceased to reveal a smooth, ridge-less surface for the first time Horizontal ridge and furrow orientation has given us osoft, direction- less undulations | Ridges and furrows have now disappeared and have been replaced by a smooth level surface <i>Remodeling</i> <i>activity has</i> <i>ceased and</i> <i>the face is</i> <i>complete</i> | Surface remains soft and smooth but exhibits increasingly visible granularity "Fine" Sandpaper | Surface remains smooth but now exhibits a widespread diffusion of micro pores "Coarse" Sandpaper | Granularity worsens and macro pores begin to appear below and below and belo | Surface now appears abraded due to intensifying granulation Micro and Micro and macro pores combine, creating large "sinkholes" that further undermine the surface | Surface is a combination of smoothness and degradation (-50%) as structural integrity erodes from below <i>Crumbling</i> appearance | Surface is now more eroded than it is intact (~75%) Wizened, Desiccated appearance | Surface is now completely eroded (-100%) Hollow Pumice on sponge-lik appearance |

| TOPOG | RAPHY | (TOP) | | | | | | | | | | | |
|---|--|---|---|--|--|---|---|--|---|---|--|---|--|
| | R | P) | 8 | | M | 57 | | | | | P | M | |
| | Ť | and the second | No. | Sec. | | | A | T | - | 1 | No. | | P. |
| Triangular Shape (Sharp) Inferor to superior profile is sharp and triangular in appearance | Parabolic Shape (Rounded) Inferior to superior profile is convex or parabolic in appearance | Opposing Nodules (UB + LB) Inferior to superior profile is flat or slightly convex with ossific nodule "bookends" at the UB and LB | Steep Central Valley Inferior to superior profile is gullied with steeply sloping sides | C-Shape - Sloped Center Inferior to superior profile is auricular or "C" shaped Interior surfaces slope downwards towards towards wide ventral inlet | C-Shape- Flattened Center Inferior to superior profile is "C" or diamond shaped with a flattened interior and narrow or "Pinched" ventral inlet | Broad Flat Plateau Inferior to superior profile is flat and plateau like in appearance | Heart or Tulip Shape Inferior to superior profile exhibits either a "heart" or "tulip" shaped LB protrusion Recessed background may be flat or slightly concave | Inverted Triangle (Rounded) Inferior to superior profile exhibits a rounded inverted triangle at the LB resulting in an "S" or wavelength appearance when viewed background | Inverted Triangle (Flat) Inferior to superior profile exhibits a flattened inverted triangle at the LB Recessed concave background | Crater or Basin Shape Inferior to superior profile is "crater" or "basin" shaped with interior surfaces sloping or funneling downwards to create a wide central concavity Best yviewed at 3/4 oblique angle | Filled in" Crater or Basin Inferior to superior profile is "crater" or "basin" shaped with irregularly "filled in" center Best viewed at 3/4 oblique angle | Rough Irregular Surface Inferior to superior profile has flattened and is rough and irregular with a mix of erratic outgrowths and pitting | Pitted or Pocked Convexity Inferior to superior profile is convex due to erosion of both ventral and dorsal borders Face is porous, pitted, and amorphous |
| Triangle (Sharp) | Parabola (Rounded) | Opposing Nodules | V-Shaped Valley | C-Shaped, Sloped Interior | C-Shaped, Flattened Interior | Flat, Plateau like Surface | Heart or Tulip Shape | S-Shape, High Rounded Curve | S-Shape, Low Flattened Curve | Empty Crater or Basin Shape | Filled In Crater or Basin Shape | Rough Irregular Surface (Flat) | Rough Irregular Surface (Convex) |
| 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |