

Appendix One

Cranial Anatomical Landmarks

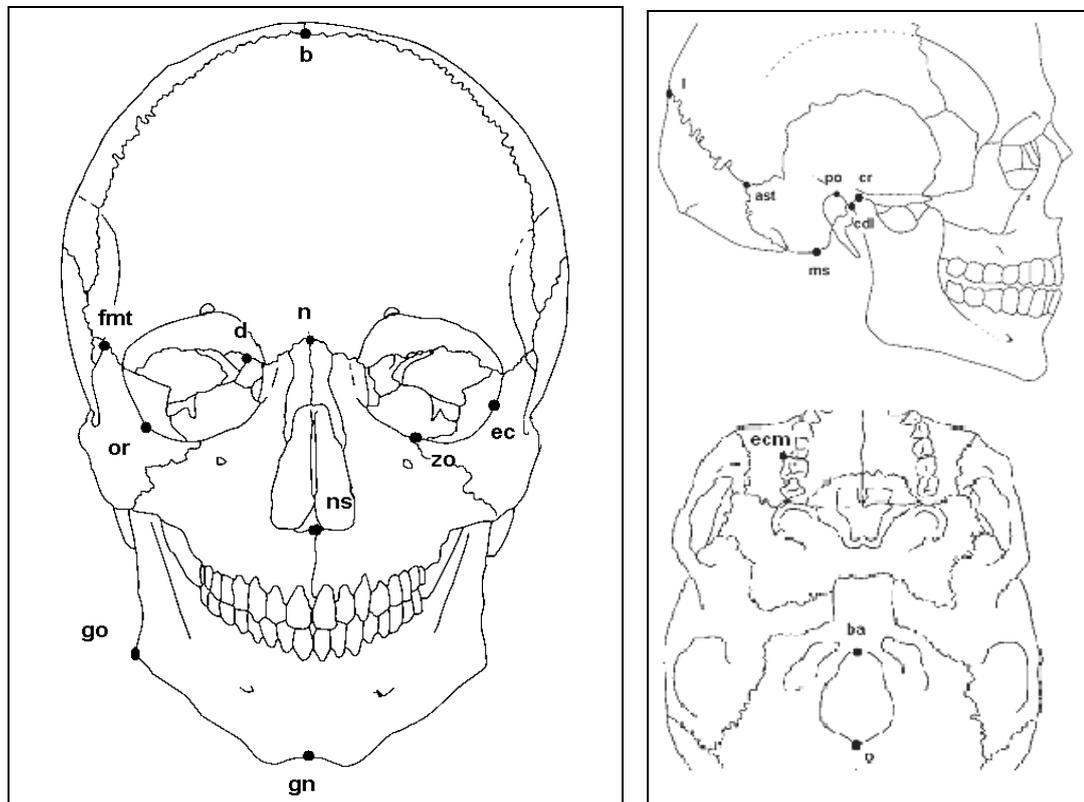


Figure AP 1.1: Craniometric landmarks. (After Bass 1995, Moore-Jansen et al. 1994, White 1991, Steele and Bramblett 1988, and Howells 1973).

- *Asterion* (ast): a point where the parietal, occipital, and temporal meet at the junction of the lambdoidal, parietomastoid, and occipitomastoid sutures.
- *Basion* (ba): the midpoint on the anterior margin of the foramen magnum.
- *Bregma* (b): a point where the coronal and sagittal sutures converge.
- *Condylion laterale* (cdl): the most lateral point on the mandibular condyle.
- *Coronion* (cr): the most superior point on the mandibular condyle.
- *Dacryon* (d): a point on the medial wall of the orbit where the frontal, lacrimal, and maxilla converge.
- *Ectoconchion* (ec): a point found by the lateral most point on the lateral border of the orbit and a line that bisects the orbit along its long axis. Move the caliper up and down, keeping it parallel to the superior border of the orbit, until the orbit is divided into two halves.
- *Ectomolare* (ecm): the most lateral points on the alveolar process of the maxilla.

- *Frontomalare* (fmt): the most lateral point on the frontozygomatic suture.
- *Gonion* (go): a point on the rounded posteroinferior boarder where the ascending ramus and the postero-lateral surface of the body meet.
- *Gnathion* (gn): the most inferior point on the mandible at the midline.
- *Lambda* (l): a point where the lambdoidal and the sagittal suture converge.
- *Mastoidale* (ms): the inferior most point on the mastoid process.
- *Nasion* (n): a point where the fronto-nasal suture and the midsagittal pane intersect.
- *Nasospinale* (ns): in the median sagittal plane, a point where the midsagittal plane and on the most inferior point of the nasal aperture intersect. This point is not always on the nasal spine.
- *Opisthion* (o): the midpoint on the posterior margin of the foramen magnum.
- *Orbitale* (or): the most inferior and lateral point on the inferior margin of the orbit.
- *Porion* (po): the most supero-lateral point on the margin of the external auditory meatus.
- *Zygoorbitale* (zo): the point on the junction of the zygomaxillary suture and inferior orbital margin.