

Table S1. Landmark definitions.

Abbreviations, names, and descriptions for each of the 29 landmarks and derived MEN landmark.

Landmark Abbreviation	Landmark Name	Description
AC ^a	Alar curvature point	Most posterolateral point on the alar cartilage, located within the crease formed by the union of the alar cartilage and the skin of the cheek
AL ^a	Alare	Most lateral point on the nasal ala
CH ^a	Chelion	Point marking the lateral extent of the labial fissure
CPH ^a	Crista philtri	Point marking the lateral crest of the philtrum at the vermilion border of the upper lip
EN ^a	Endocanthion	Apex of the angle formed at the inner corner of the palpebral fissure where the upper and lower eyelids meet
EX ^a	Exocanthion	Apex of the angle formed at the outer corner of the palpebral fissure where the upper and lower eyelids meet
GN	Gnathion	Midline point on the inferior border of the mandible
LI	Labiale inferius	Midline point of the vermilion border of the lower lip
LS	Labiale superius	Midline point of the vermilion border of the upper lip at the base of the philtrum
MEN	Midendocanthion	Calculated as the midpoint between left and right EN landmark coordinates
N	Nasion	Midline point where the frontal and nasal bones contact (nasofrontal suture).
P	Pogonion	Most prominent portion of chin, anatomical pogonion
PRN	Pronasale	Midline point marking the maximum protrusion of the nasal tip
SBAL ^a	Subalare	Point located at the lower margin of the nasal ala, where the cartilage inserts in the cutaneous upper lip
SL	Sublabiale	Midpoint along the inferior margin of the cutaneous lower lip (labiomental sulcus)
SN	Subnasale	Midline point at the junction of the inferior border of the nasal septum and the cutaneous upper lip □ the apex of the nasolabial angle
SPA ^a	Superior alar groove	Most superior portion of alar groove.
STO	Stomion	Midpoint of the labial fissure
T ^a	Tragion	Point marking the notch at the superior margin of the tragus, where the cartilage meets the skin of the face
Z ^a	Zygion	Most prominent portion of zygomatic arch

^abilateral landmarks