

Table S1. Cephalometric measurements and their definitions.

Category	Measurement	Definition
Maxilla to Cranial Base	SNA (°)	The angle formed by connecting sella, nasion, and A-point
	SN-Palatal Plane (°)	The angle formed from the intersection of sella-nasion line and a line drawn connecting anterior nasal spine to posterior nasal spine
Mandible to Cranial Base	SNB (°)	The angle formed by connecting sella, nasion, and B-point
	FMA: MP-FH (°)	The angle formed from the intersection of porion-orbitale line and a line drawn connecting gonion to gnathion
	SN-MP (°)	The angle formed from the intersection of sella-nasion line and a line drawn connecting gonion to gnathion
	Y-Axis: SGn-SN (°)	The angle formed by connecting nasion, sella, and gnathion
Maxilla to Mandible	ANB (°)	The difference between SNA and SNB
	Maxillary Length: ANS-PNS (mm)	The linear measurement between anterior nasal spine and posterior nasal spine
	Mandibular Length: Co-Gn (mm)	The linear measurement between condyion and gnathion
Cranial Base	Cranial Base Flexure Angle: Ba-S-N (°)	The angle formed by connecting basion, sella, and nasion
Upper Incisors to Maxilla	U1-SN (°)	The angle formed from a line connecting sella to nasion and a line connecting the upper incisor incisal tip to the root apex
	U1-NA (°)	The angle formed from a line connecting nasion to A-point and a line connecting the upper incisor incisal tip to the root apex
	U1-NA (mm)	The linear measurement from the labial surface of the upper incisor to the line connecting nasion to A-point
Lower Incisors to Mandible	L1-MP (°)	The angle formed from a line connecting the lower incisor incisal tip to the root apex and a line connecting gonion to gnathion
	L1-NB (°)	The angle formed from a line connecting the lower incisor incisal tip to the root apex and a line connecting nasion to B-point
	L1-NB (mm)	The linear measurement from the labial surface of the lower incisor incisal to the line connecting nasion to B-point
Incisors to Each Other	Interincisal Angle (°)	The angle formed from a line connecting the lower incisor incisal tip to the apex and a line connecting the upper incisor incisal tip to the root apex
Soft Tissue	Upper Lip to E-Plane (mm)	The linear distance from upper lip to a line connecting soft tissue pogonion and pronasale
	Lower Lip to E-Plane (mm)	The linear distance from lower lip to a line connecting soft tissue pogonion and pronasale
	Soft Tissue Upper Face Height: N'-Sn' (mm)	The linear measurement between soft tissue nasion and soft tissue subnasale
	Soft Tissue Lower Face Height: Sn'-Me' (mm)	The linear measurement between soft tissue subnasale and soft tissue pogonion
	Hard Tissue Upper Face Height: N-ANS (mm)	The linear measurement between nasion and anterior nasal spine
	Hard Tissue Lower Face Height: ANS-Me (mm)	The linear measurement between anterior nasal spine and menton
	Posterior Face Height: Ar-Go (mm)	The linear measurement between articulare and gonion
Profile	Convexity: NA-APo (°)	The angle formed by connecting nasion, A-point, and pogonion
	Facial Angle: FH-NPo (°)	The angle formed from a line connecting porion to orbitale and a line connecting nasion to pogonion