

Supplemental material 1

Definitions of the skeletal and temporomandibular landmarks utilized in this study

	Landmark	Abb	Definition
1	Nasion	N	The most superior and anterior point of the frontonasal suture
2	Sella	S	The center of the hypophyseal fossa in the middle cranial fossa (Sella turcica)
3	Basion	Ba	The posterior tip of the skull base, sagittally the most inferior posterior-point of the foramen magnum
4	Right/Left orbitale	Or-R/L	The most inferior point on the infraorbital rim of the maxilla
5	Right/Left porion	Po-R/L	The most outer and superior bony point of the external acoustic meatus
6	Anterior nasal sp	ANS	The bony projection located at the base of the nasal septum in the maxillary midline
7	Subspinale	A	Deepest point of the middle of the maxillary frontal surface
8	Supramentale	B	Deepest point of the middle mandibular frontal surface
9	Bony mandibular fossa point	MF	The highest and middlemost point of the bony mandibular fossa
10	Soft- Mandibular fossa point	MFS	The highest and middlemost point of the soft tissue mandibular fossa
11	Medial joint space “fossa point”	MJSf	The Most right or left lateral point of the medial wall of mandibular fossa
12	Superior condylar point	SCP	The Most right or left superior point of the condylar head
13	Medial condylar point	MCP	The Most right or left medial point of the condylar head
14	Lateral condylar point	LCP	Most right or left lateral point of the condylar head
15	Anterior condylar point	ACP	Most right or left anterior point of the condylar head
16	Posterior condylar point	PCP	Most right or left posterior point of the condylar head
17	Articular tubercle	AT	Most inferior and posterior point of right or left articular tubercle
18	Inferior meatus	IM	Most inferior and lateral point of right or left external auditory meatus

19	Mandibular fossa Anterior joint-space	AJSf	The most prominent point of the anterior inner wall of mandibular tuberculum approximately at the closest distance between anterior fossa-condyle
20	Condylar Anterior joint-space	AJSc	Most prominent point anterior condyle head approximately at the closest distance between anterior condyle-fossa.
21	Mandibular fossa Posterior joint-space	PJSf	The most prominent point of the posterior inner wall of mandibular tuberculum approximately at the closest distance between posterior fossa-condyle.
22	Condylar Posterior joint-space	PJSc	Most prominent point posterior condyle head approximately at the closest distance between posterior condyle-fossa.