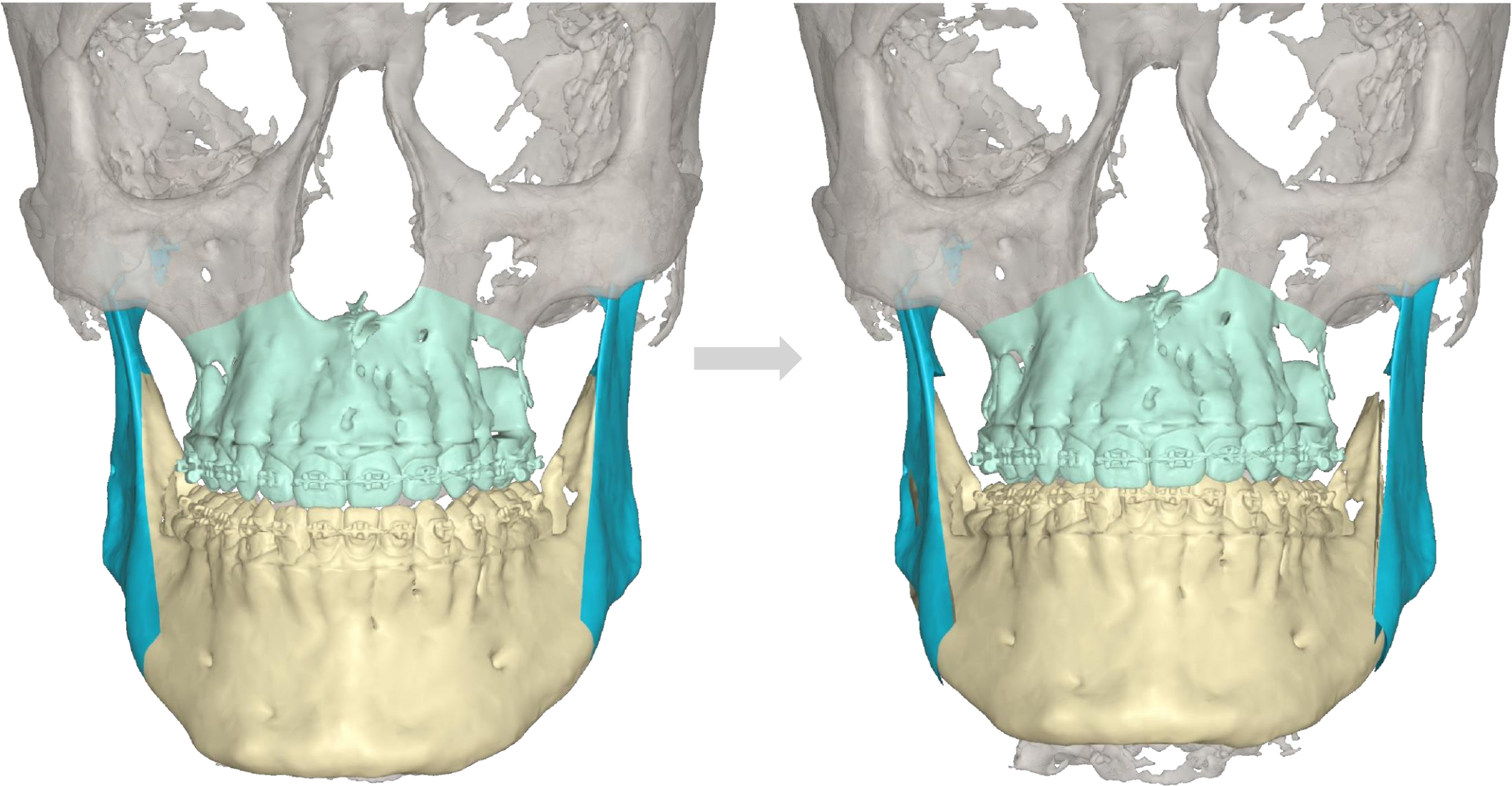


## IPS Case Report

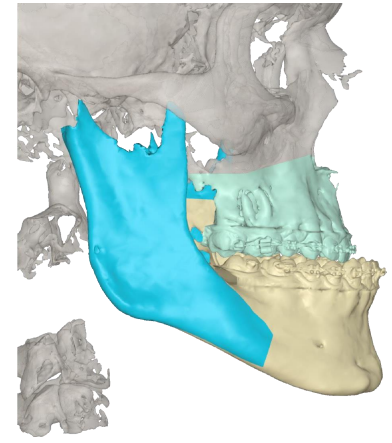
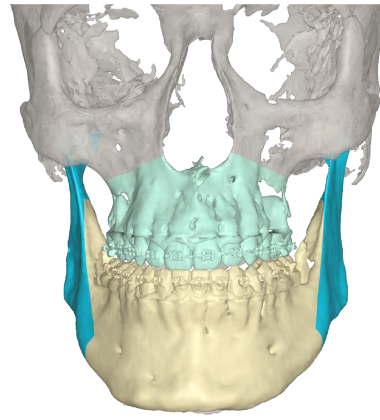
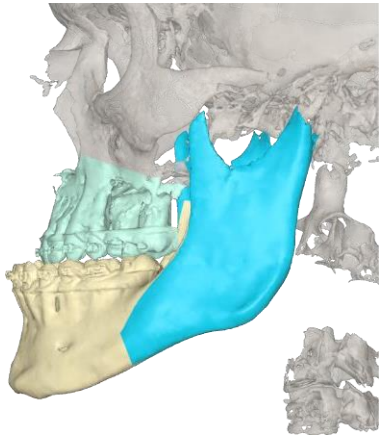
Patient name                      Orthognathic case 2

Surgical Plan                      Mandible first, in-situ  
pitch and jaw rotation  
on the right, 3.5mm  
setback  
  
Upper jaw 8mm forward  
1mmlet jaw 2mm parallel  
recessed

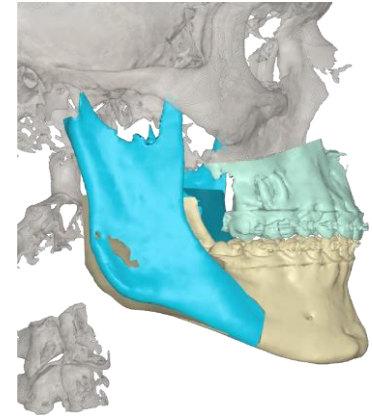
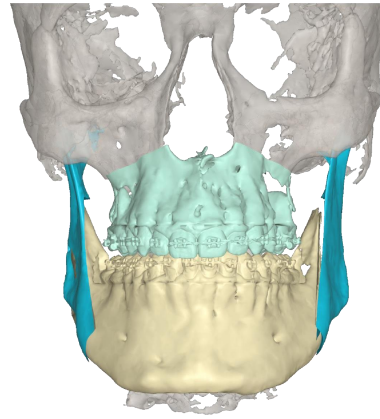
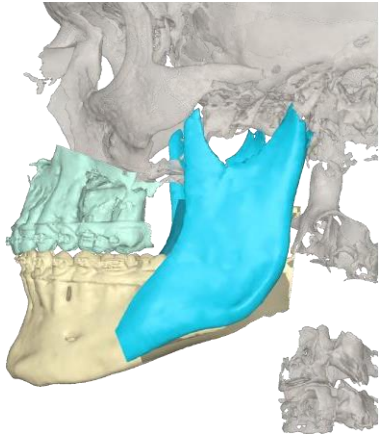
# PLANNING SUMMARY



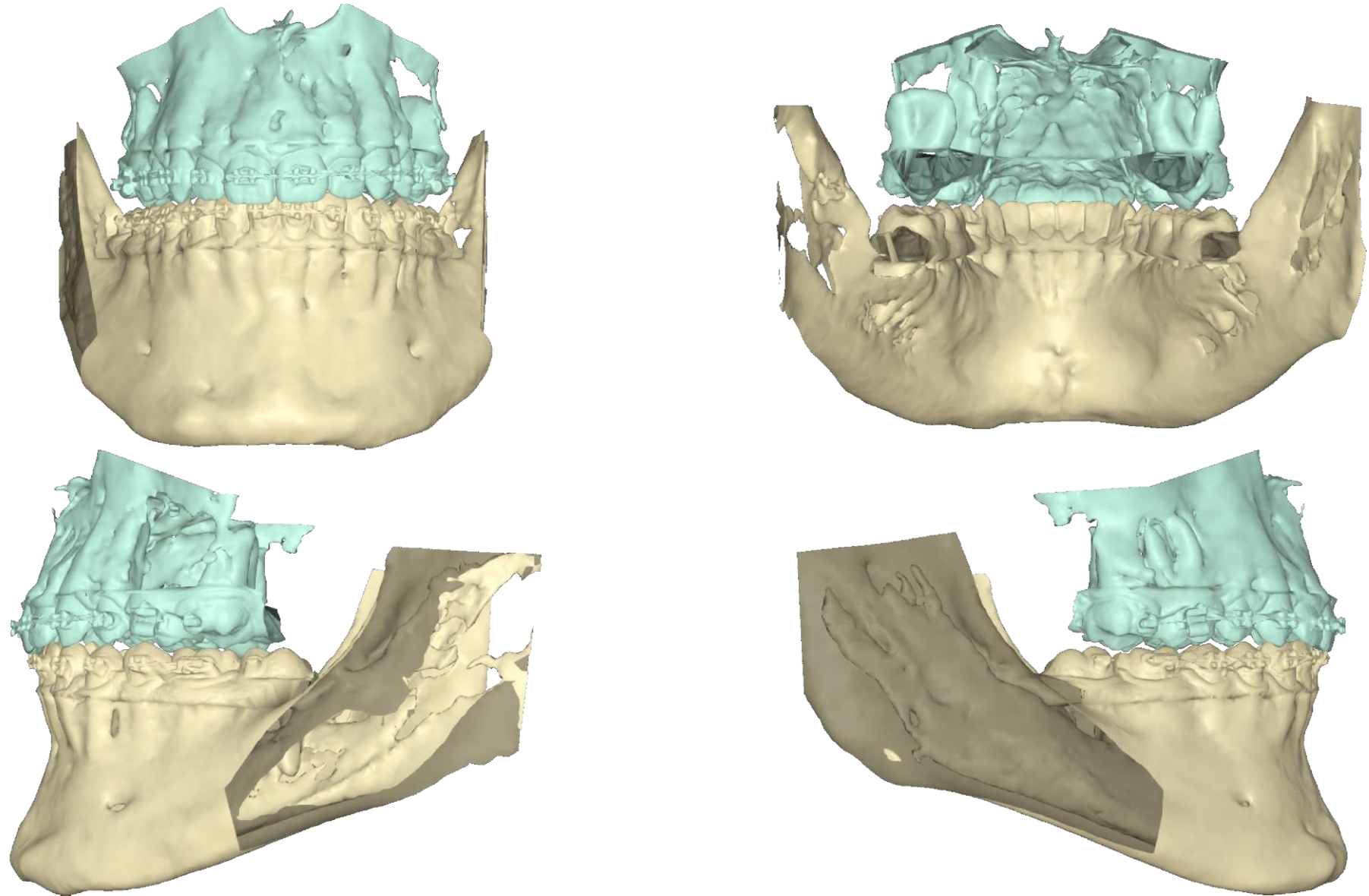
PRE-OP POSITION



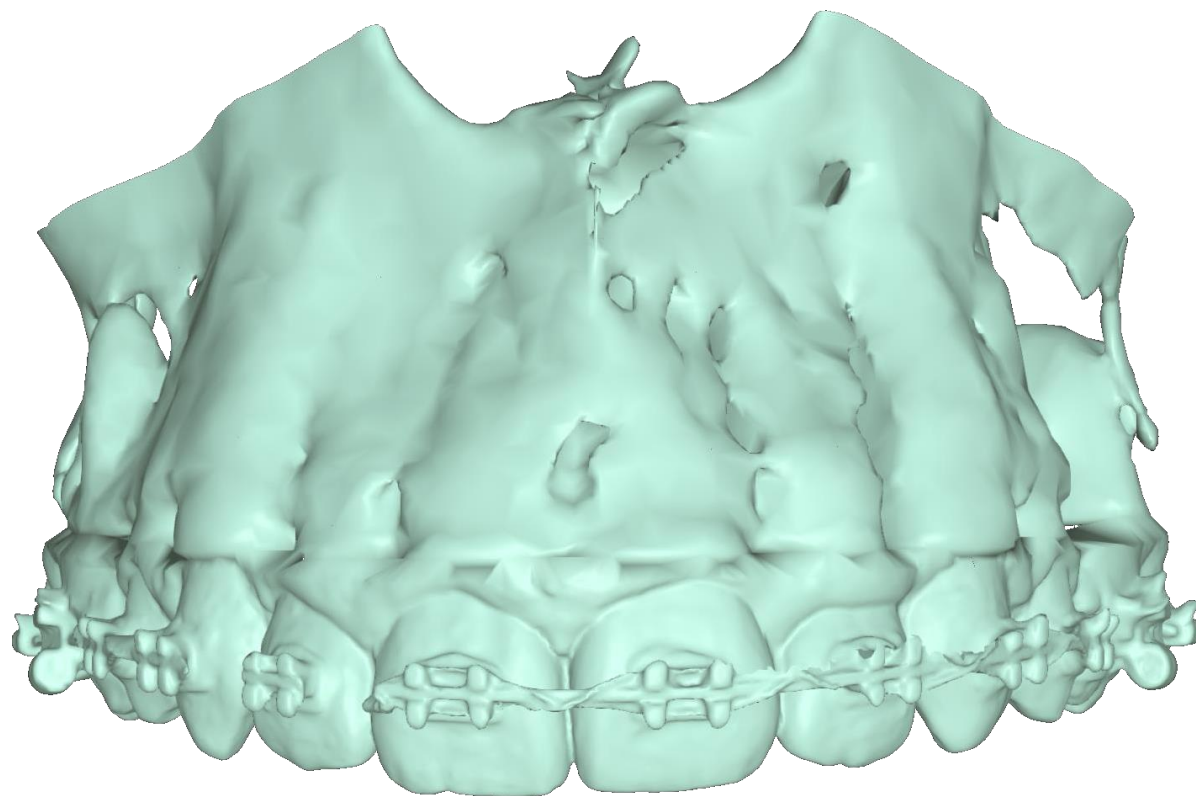
FINAL POSITION

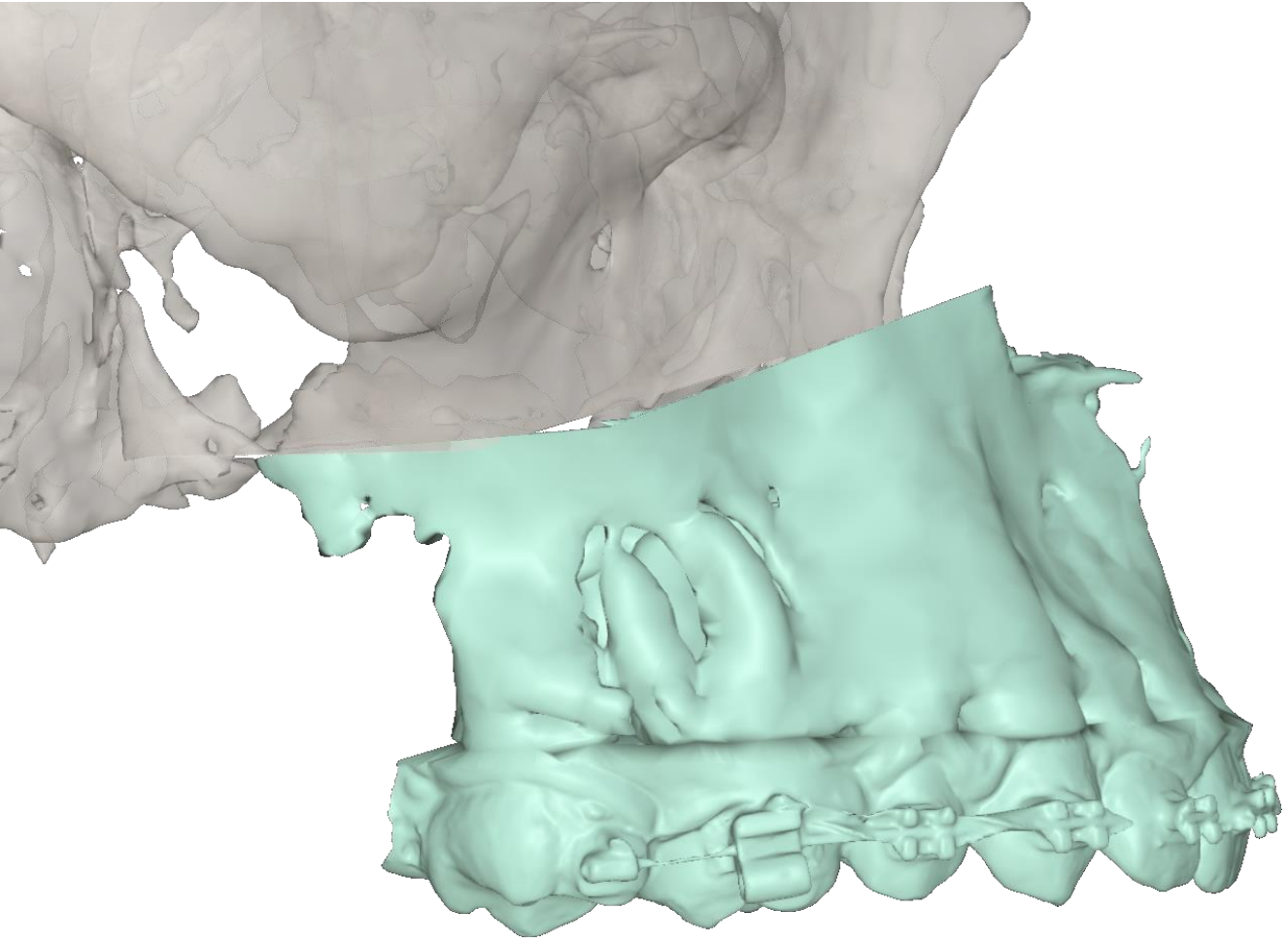


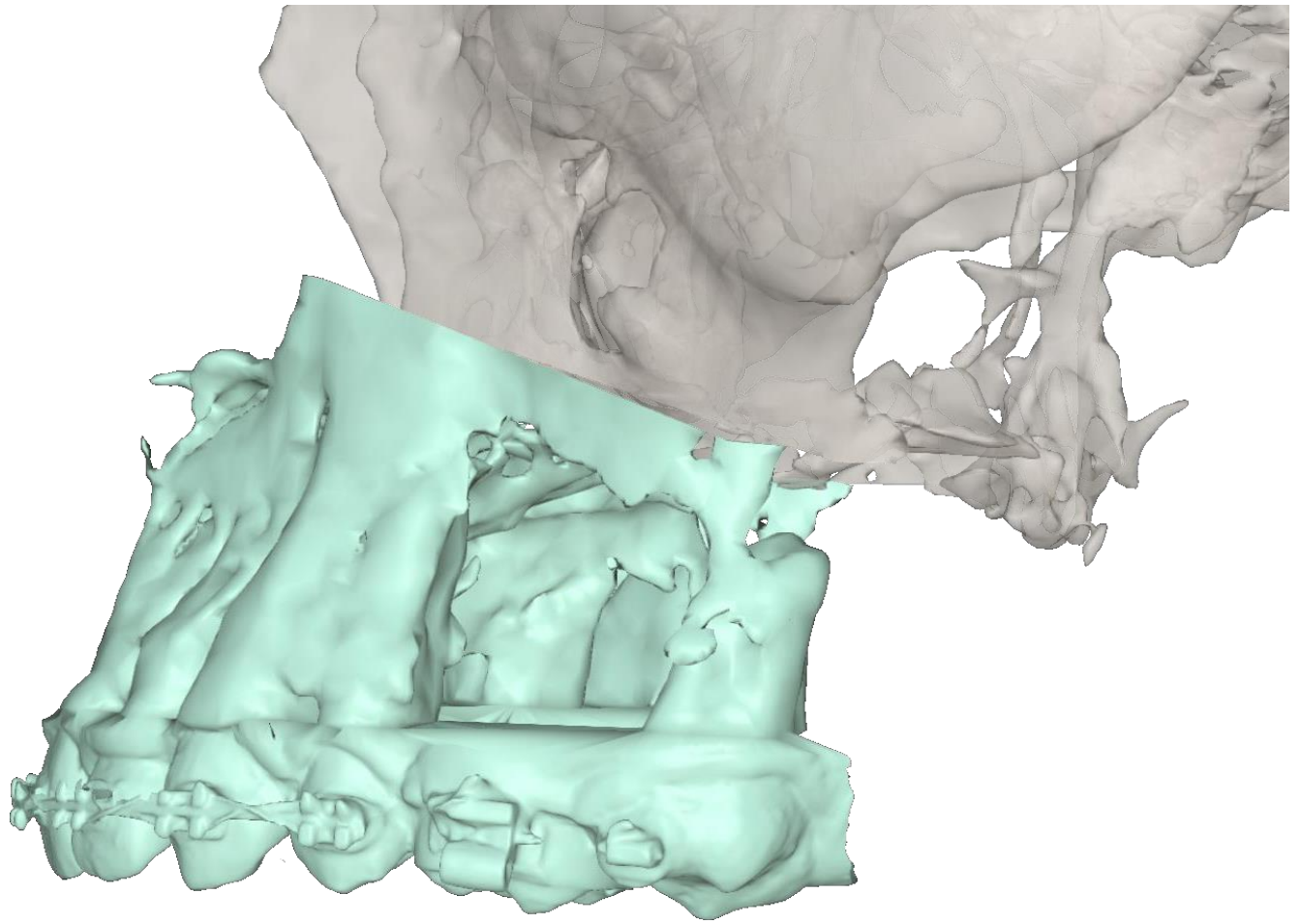
# FINAL OCCLUSION



# MAXILLARY ANALYSIS

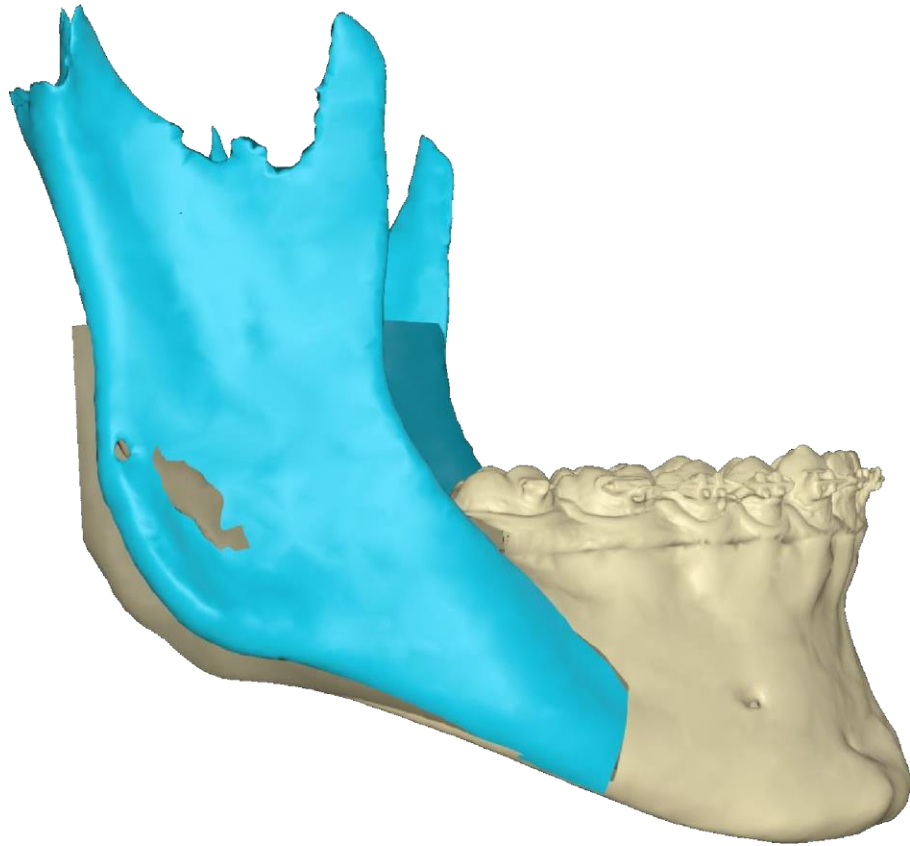




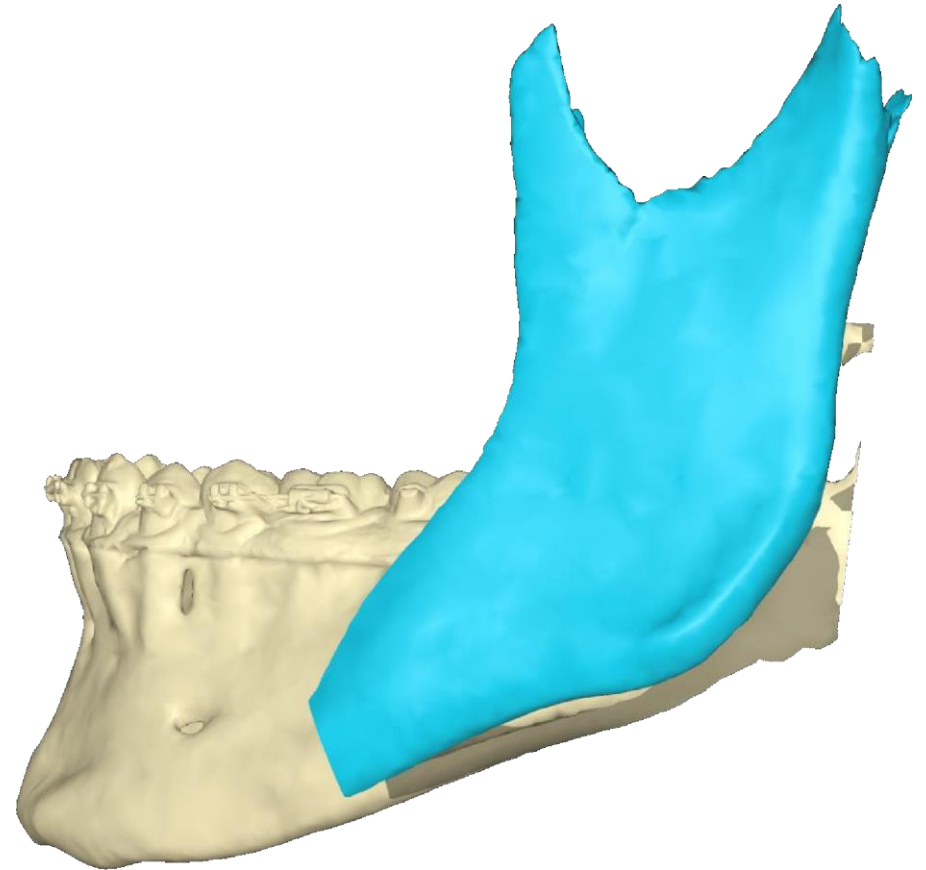


# MANDIBULAR ANALYSIS

RIGHT

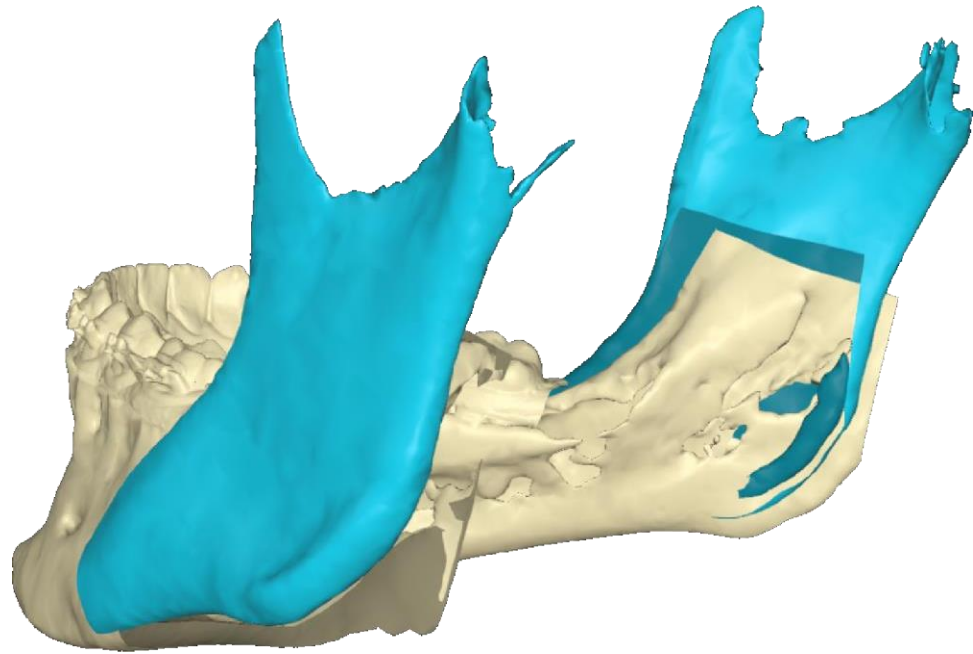


LEFT

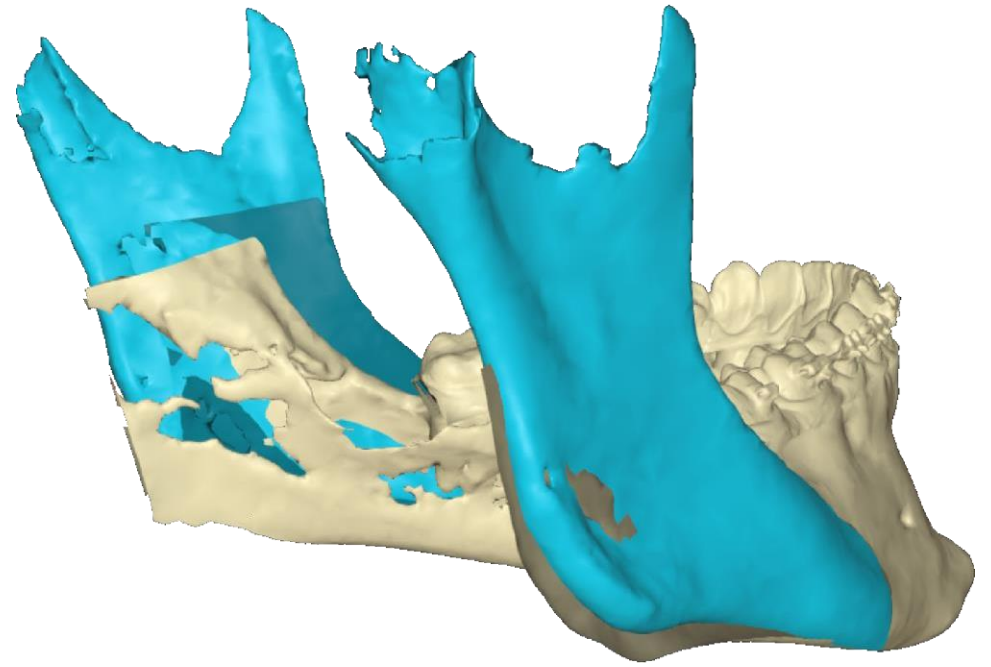


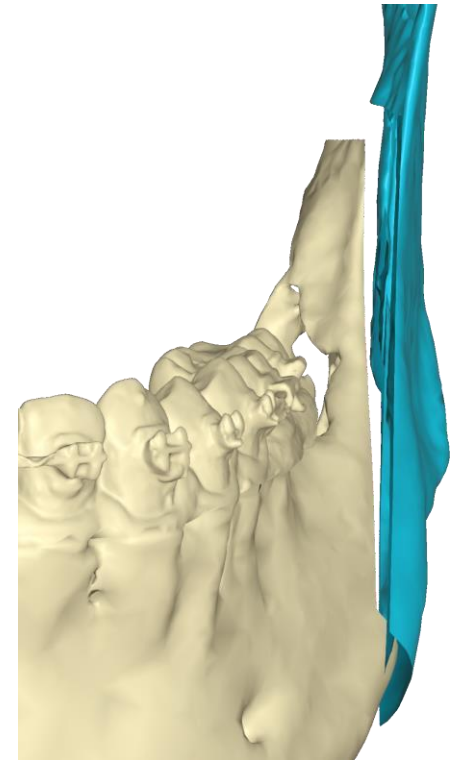
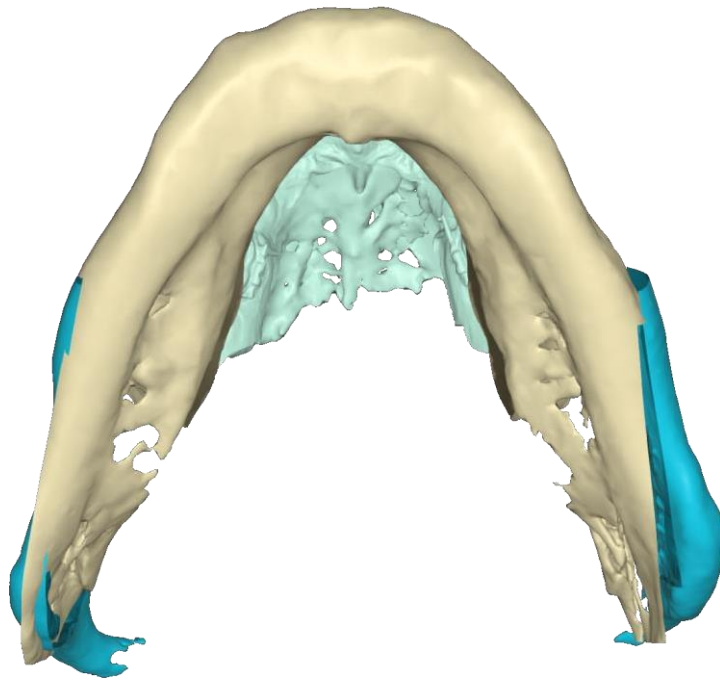


**RIGHT**

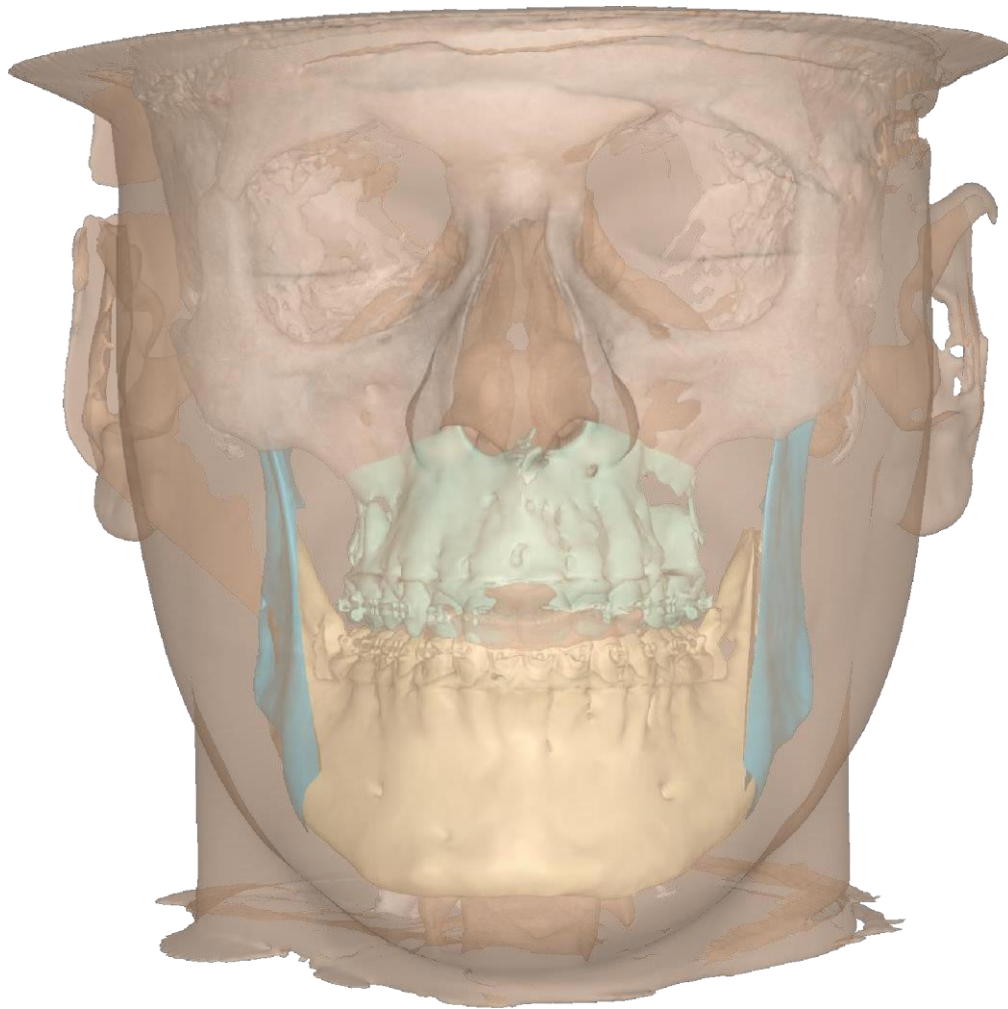


**LEFT**



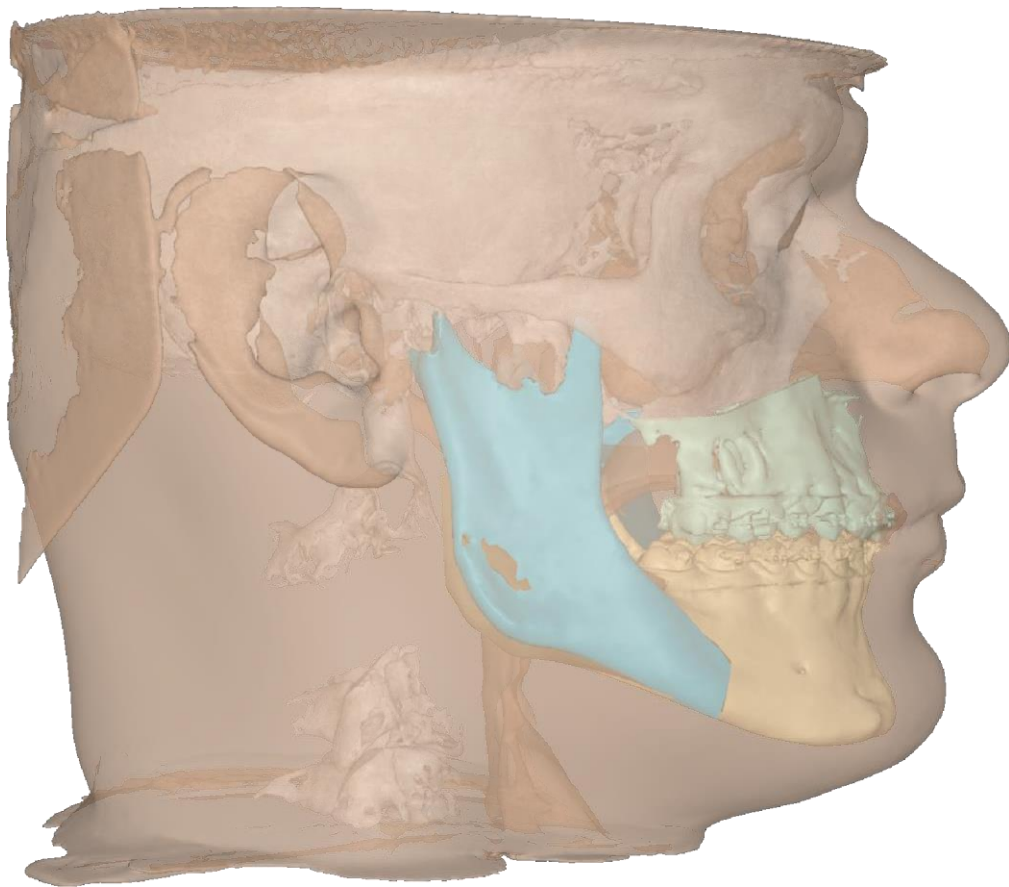


# PLANNED MOVEMENTS



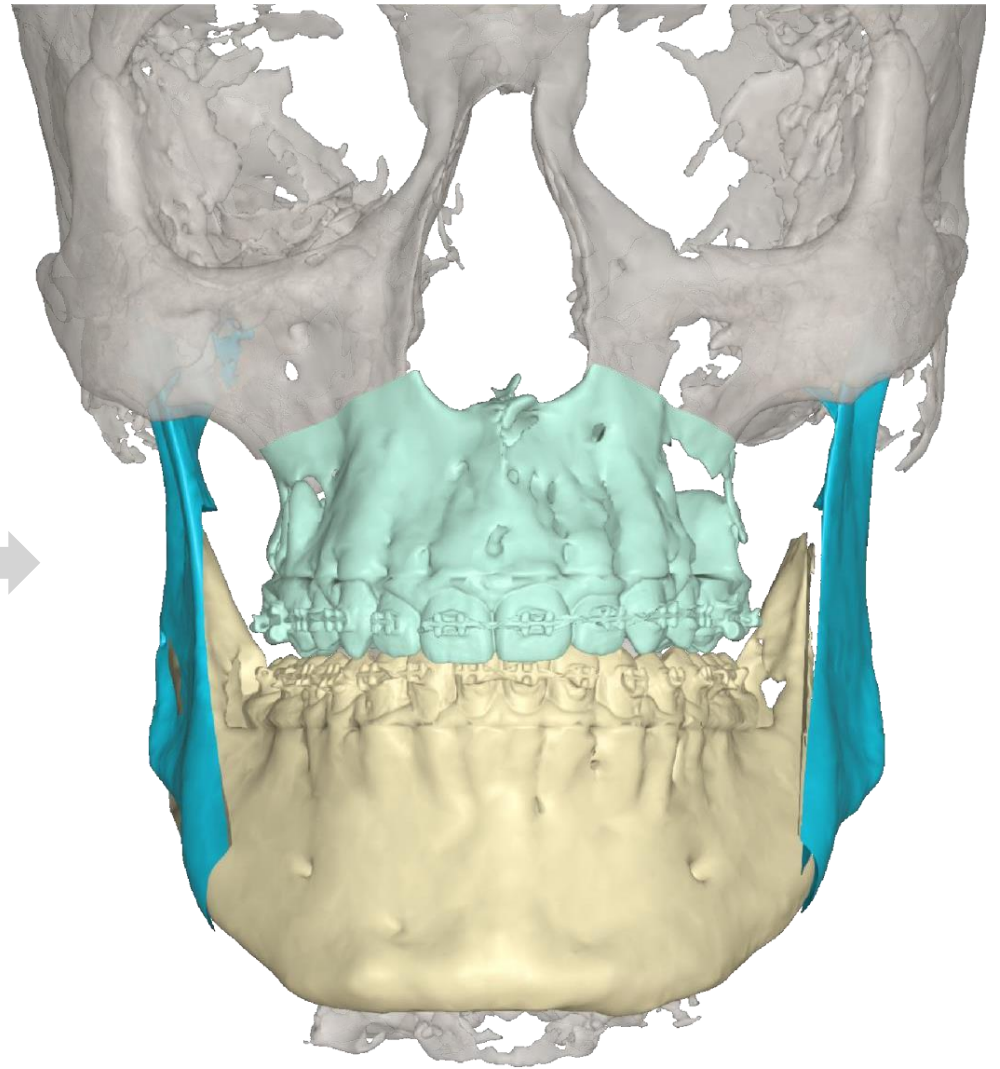
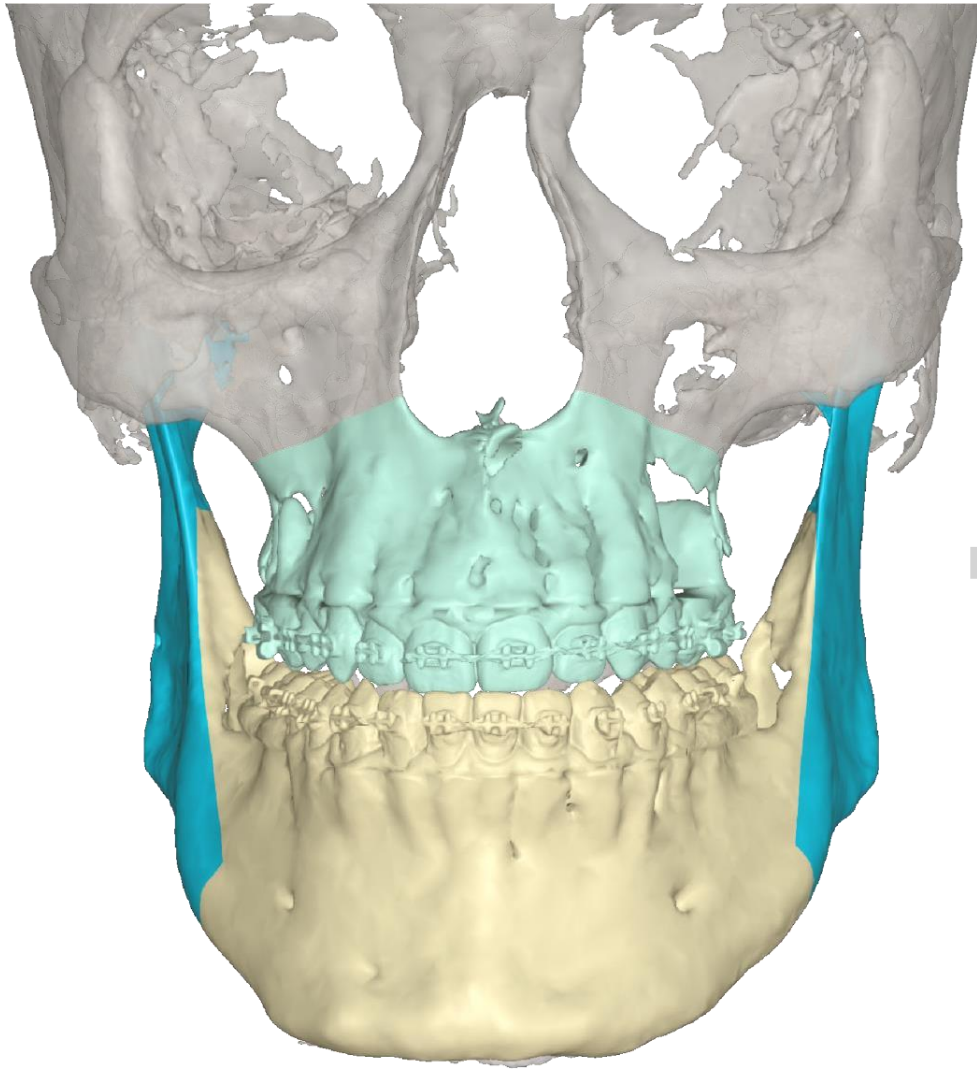
	Translation (mm)	Rotation (deg)	Autorotation (deg)	Occlusion
Mandible	R/L: - F/B: - D/U: -	R: - P: - Y: -	Pitch: No movement	Defined by virtual occlusion scan
Maxilla	R/L: 1 mm F/B: 8.0 mm D/U: 2.1 mm	R: 0.0 deg P: -3.5 deg Y: 1.0 deg	Pitch: -	-
Ramus - Left	R/L: - F/B: - D/U: -	R: 0.0 deg P: 0.0 deg Y: 0.0 deg	Pitch: -	-
Ramus - Right	R/L: - F/B: - D/U: -	R: 0.0 deg P: 0.0 deg Y: 0.0 deg	Pitch: -	-

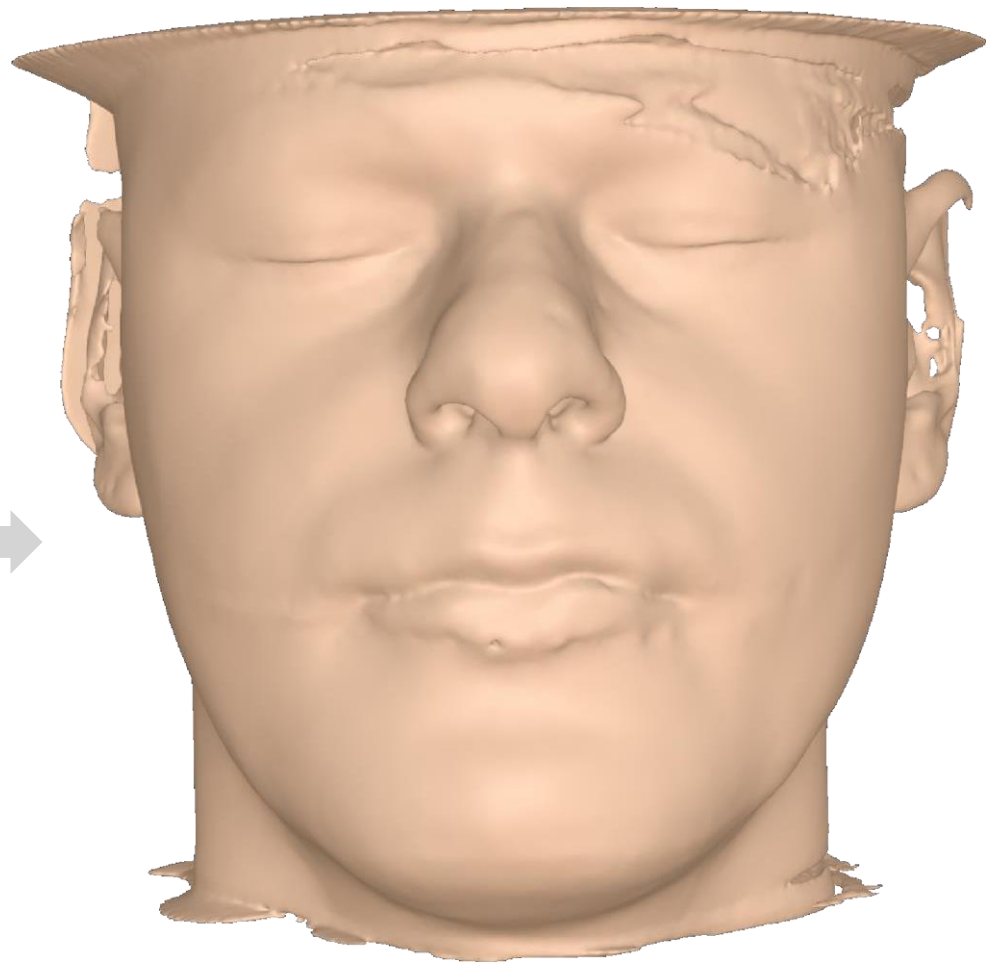
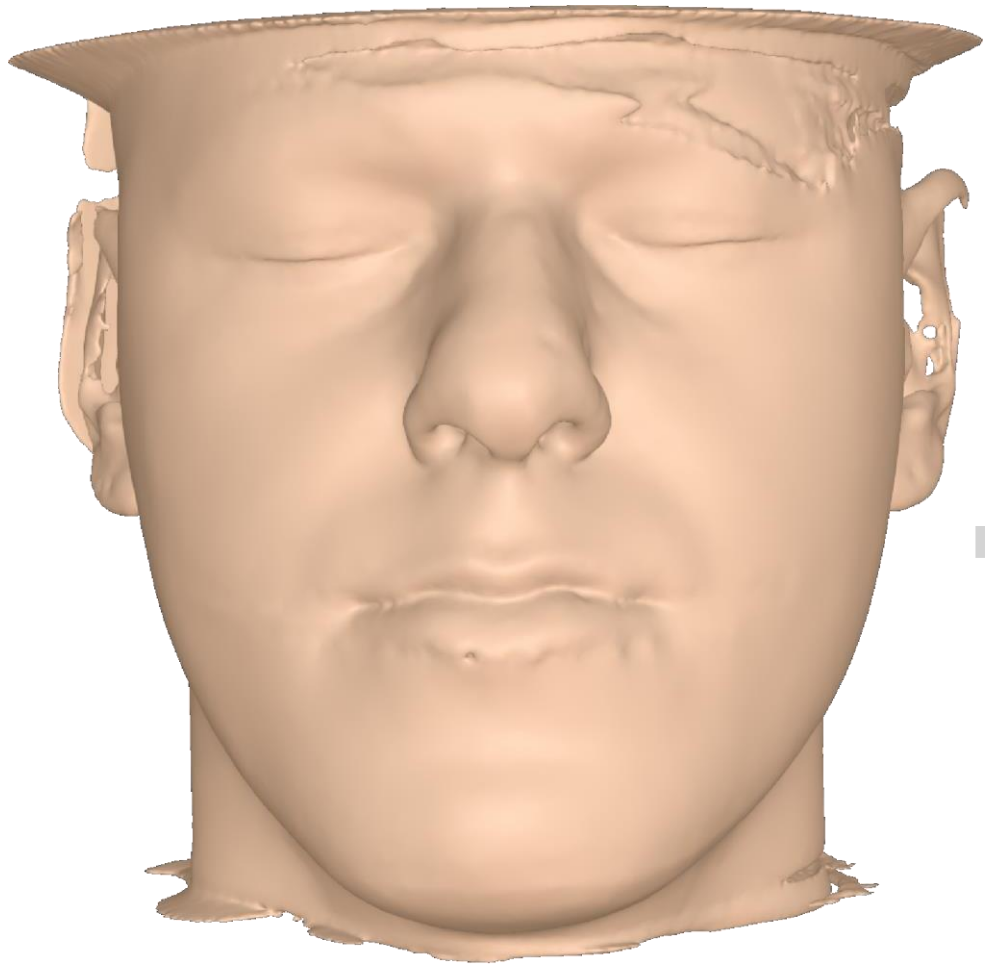
-	+
RIGHT	LEFT
BACK	FRONT
DOWN	UP
CCW	CW

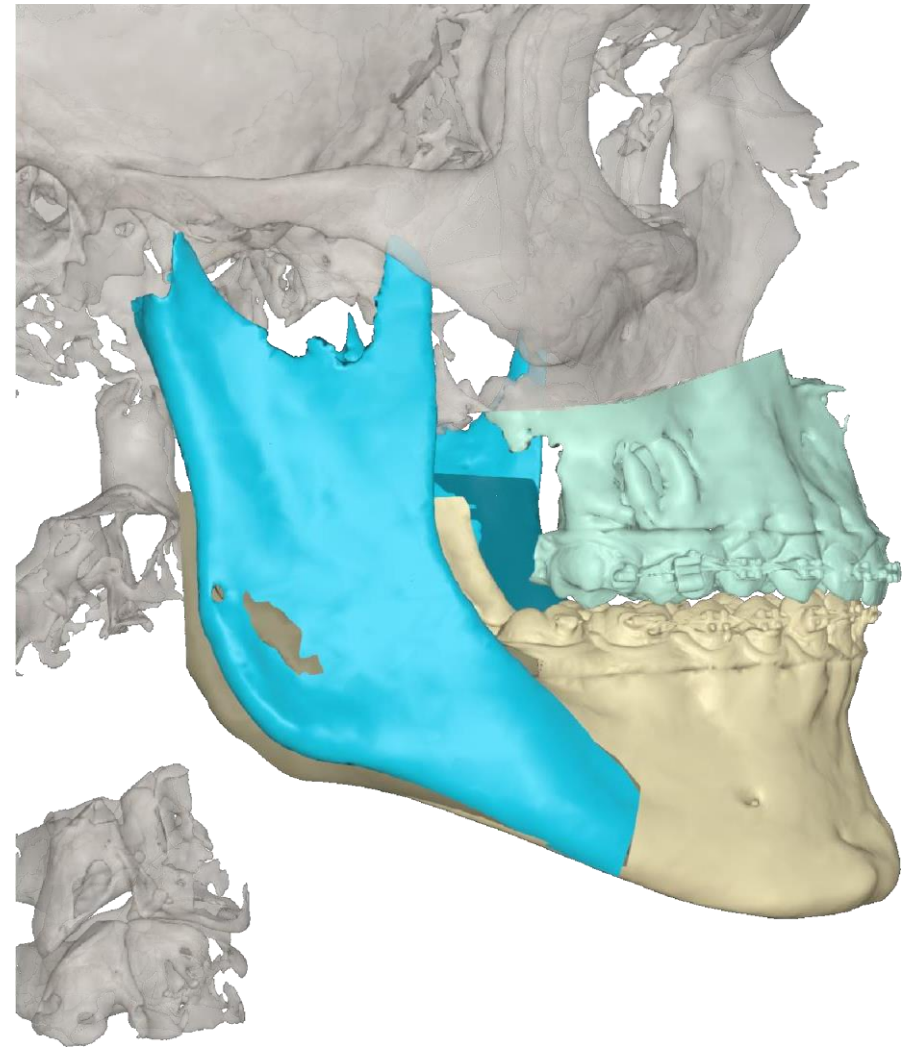
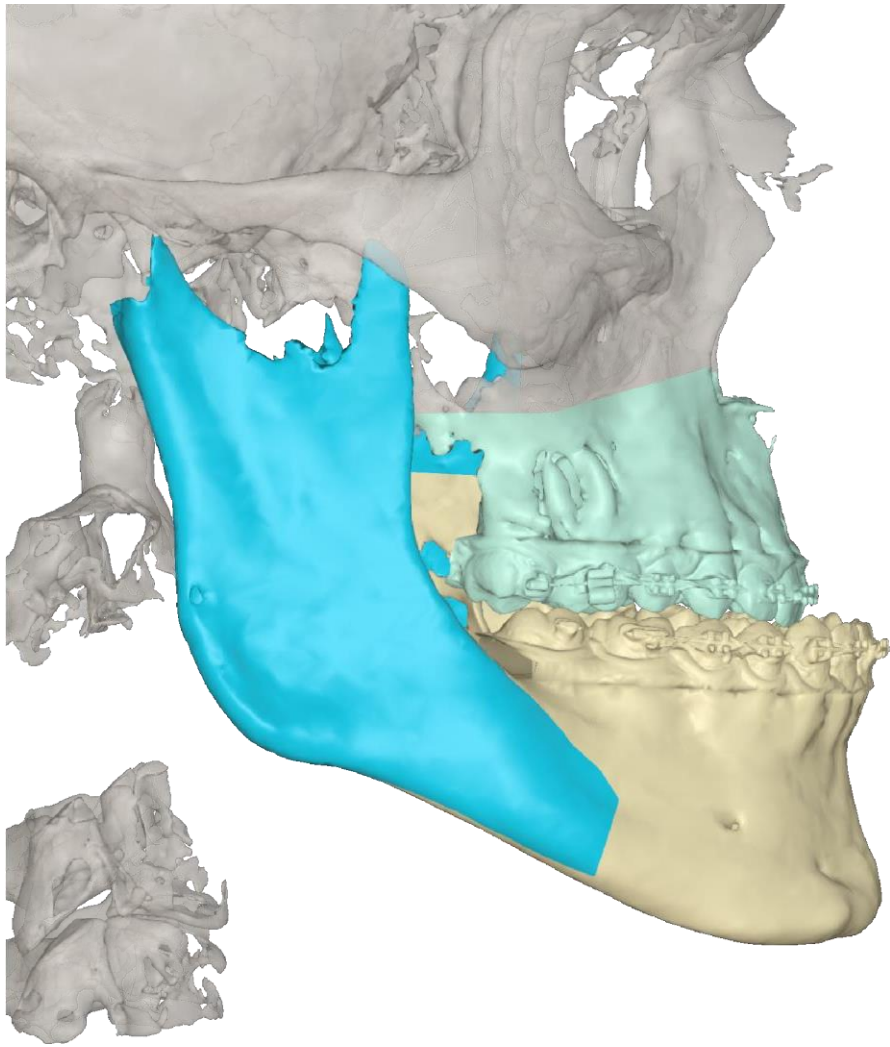


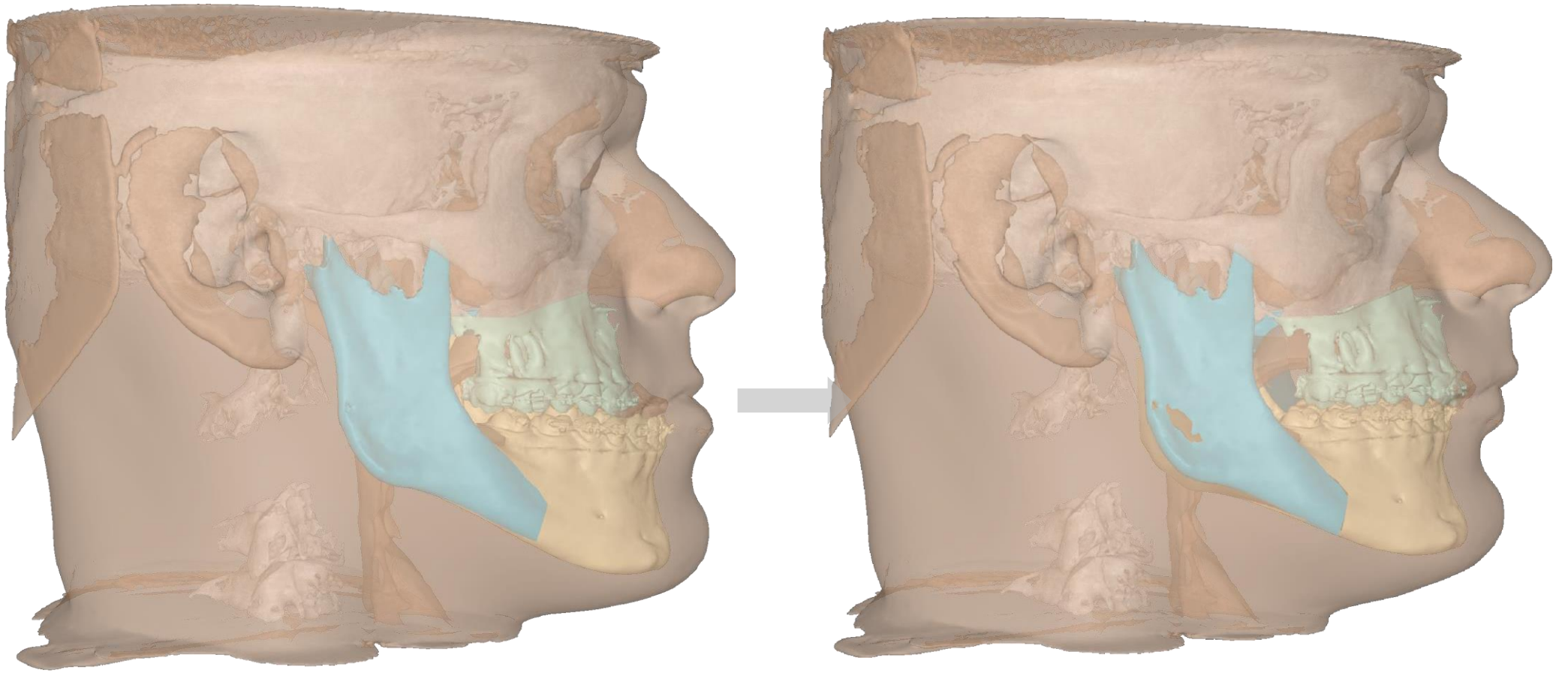
	Translation (mm)	Rotation (deg)	Aut rotation (deg)	Occlusion
Mandible	R/L: - F/B: - D/U: -	R: - P: - Y: -	Pitch: No movement	Defined by virtual occlusion scan
Maxilla	R/L: 1 mm F/B: 8.0 mm D/U: 2.1 mm	R: 0.0 deg P: -3.5 deg Y: 1.0 deg	Pitch: -	-
Ramus - Left	R/L: - F/B: - D/U: -	R: 0.0 deg P: 0.0 deg Y: 0.0 deg	Pitch: -	-
Ramus - Right	R/L: - F/B: - D/U: -	R: 0.0 deg P: 0.0 deg Y: 0.0 deg	Pitch: -	-

-	+
RIGHT	LEFT
BACK	FRONT
DOWN	UP
CCW	CW

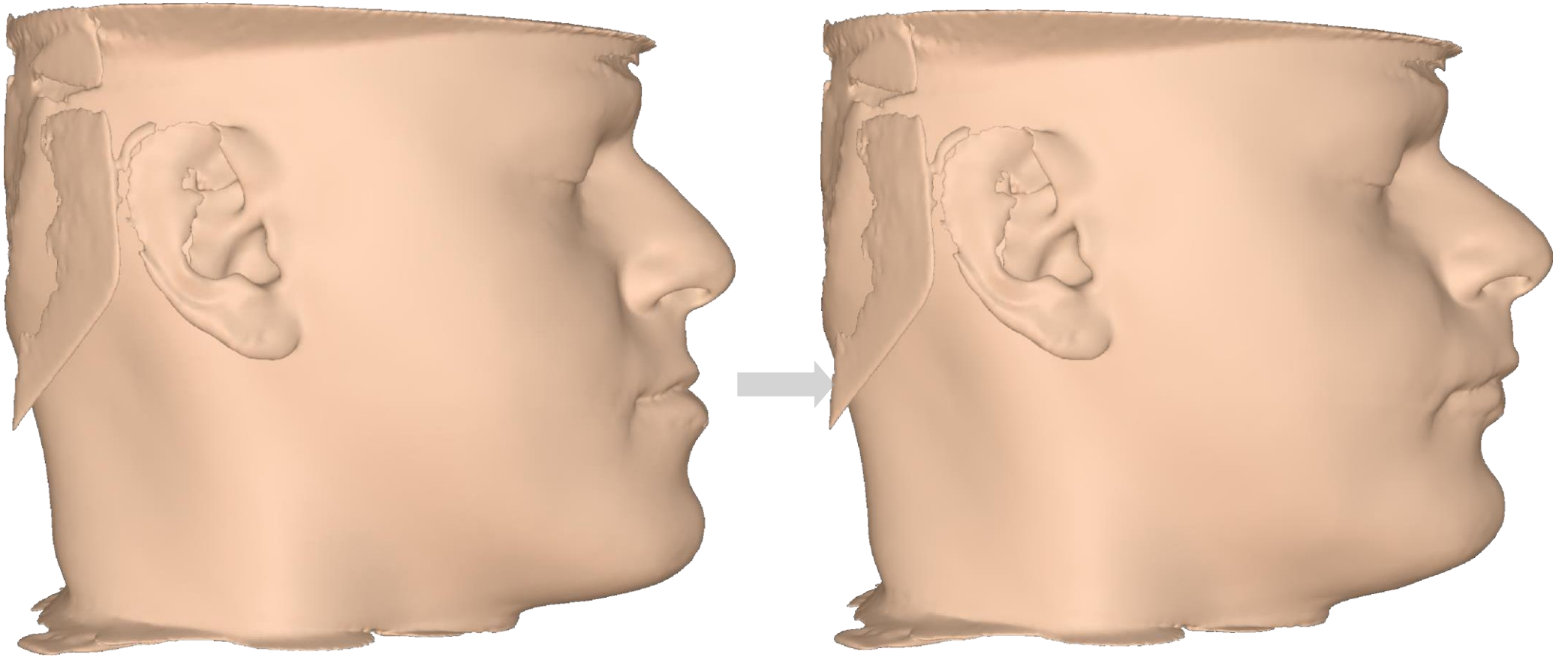






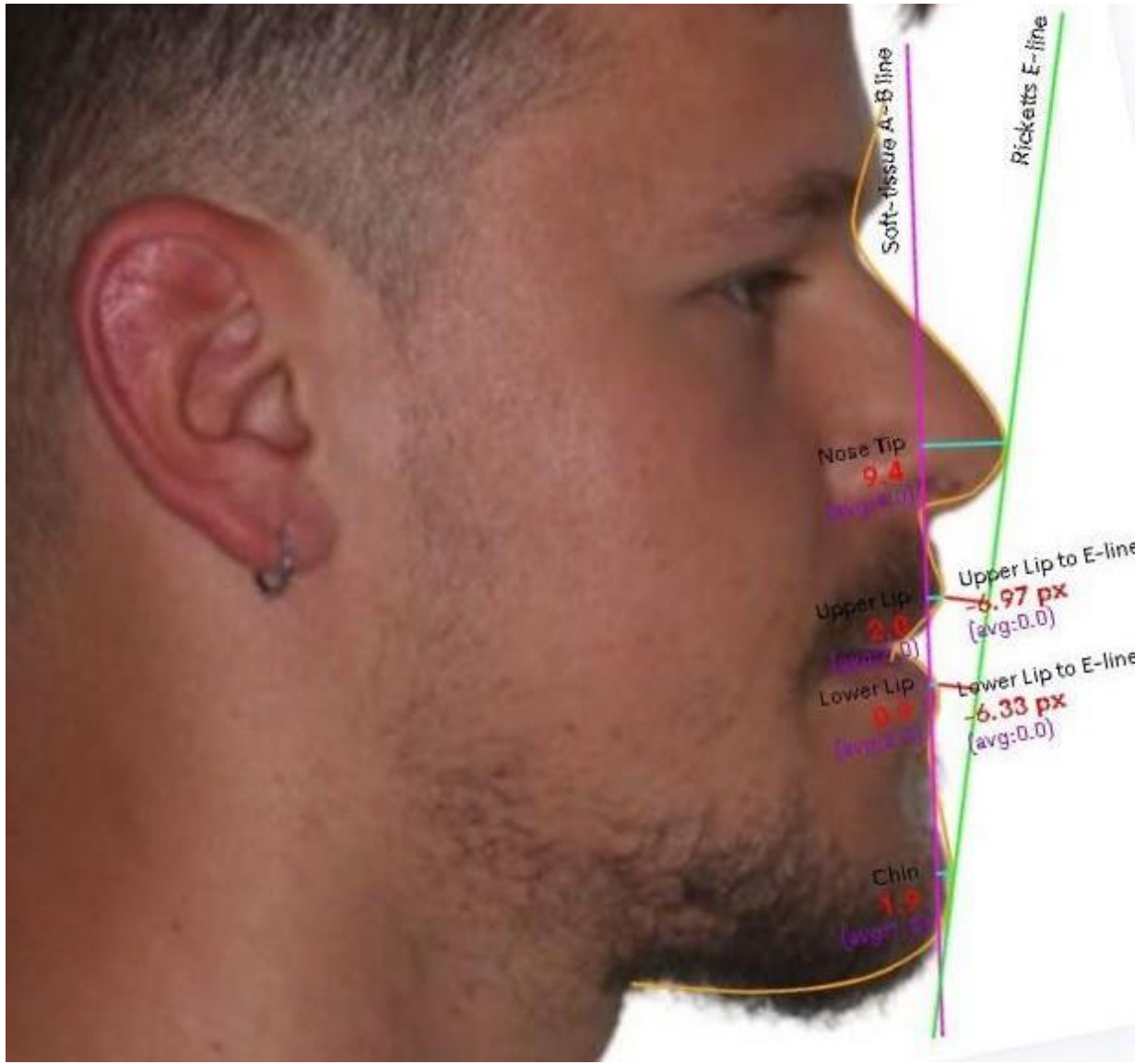





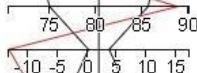

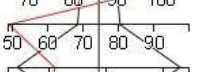
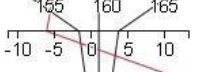
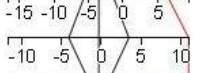
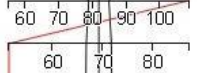
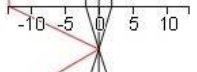
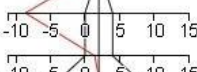

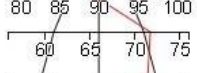





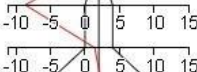
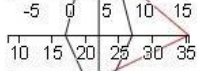
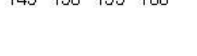




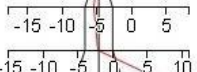
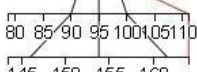

**SKELETAL**

SNA	81.77	6.0	75.73	*		Retruded maxilla
SNB	80.42	5.3	88.90	*		Prognathic mandible
ANB	2.05	1.8	-13.17	***		Skeletal Class III
Bjork sum	393.97	3.7	385.78	**		Hypodivergent Skeletal Pattern
FMA	25	4.0	19.99	*		Hypodivergent facial pattern
Gonial angle	122.38	4.9	126.47			Normal gonial angle
APDI	85.98	4.0	106.38	***		Skeletal Class III
ODI	74.5	6.0	49.09	***		Skeletal Openbite tendency
Combination factor	159.33	7.1	155.47			Normal combination factor value
A to N-Perp(FH)	1.1	2.7	-6.04	**		Retruded maxilla
B to N-Perp(FH)	-3.5	2.0	6.34	***		Protruded mandible
Pog to N-Perp(FH)	-0.3	3.8	11.06	**		Protruded chin point
FH to AB	82	3.0	108.65	***		Skeletal Class III
A-B to mandibular plane	69.3	2.5	51.36	***		Small AB to mand. plane angle
Wits appraisal	-0.1	1.9	-13.26	***		Skeletal Class III

**DENTAL**

Overjet	2	2.0	-8.61	***		Anterior crossbite
Overbite	2	2.0	1.41			Normal overbite
U1 to FH	116.52	6.0	116.95			Normal upper incisor inclination
U1 to SN	109.31	6.0	111.16			Normal upper incisor inclination
U1 to UOP	55	4.0	59.18	*		Retroclined upper incisor
IMPA	90	3.5	88.04			Normal lower incisor inclination
L1 to LOP	66	5.0	71.73	*		Retroclined lower incisor
Interincisal angle	130	5.8	135.02			Normal interincisor angle
Cant of occlusal plane	9.3	3.8	1.38	**		Flat occlusal plane angle
U1 to NA(mm)	4	3.0	9.22	*		Protruded upper incisor
U1 to NA(deg)	22	5.0	35.43	**		Proclined upper incisor
L1 to NB(mm)	4	2.0	4.06			Normal lower incisor
L1 to NB(deg)	25	5.0	22.72			Normal lower incisor inclination
Upper incisal display	3	1.5	5.85	*		Large incisal display

**SOFT-TISSUE**

Upper lip to E-plane	-4.7	2.0	-5.43			Normal upper lip position
Lower lip to E-plane	-2	2.0	-2.13			Normal lower lip position
Nasolabial angle	95	5.0	111.09	***		Retruded lip
Extraction Index	153.8	7.8	164.03	*		Non-Extraction preferred

# Arnett

	Mean	S.D.	Result	Severity	Polygonal chart	Meaning
<b>Dentoskeletal factors</b>						
Mx occlusal plane to TVL	95	1.4	95.74			Normal occlusal plane angle
Mx1 to Mx occlusal plane	57.8	3.0	58.38			Normal upper incisor inclination
Md1 to Md occlusal plane	64	4.0	70.01	*		Retroclined lower incisor
Overjet	3.2	0.6	8.66	***		Large overjet
Overbite	3.2	0.7	1.04	***		Anterior openbite
<b>Soft tissue structure</b>						
Upper lip thickness	14.8	1.4	14.82			Normal upper lip thickness
Lower lip thickness	15.1	1.2	15.84			Normal lower thickness
Pogonion-Pogonion'	13.5	2.3	9.92	*		Thin Pog-Pog' thickness
Menton-Menton'	8.8	1.3	6.01	**		Thin Me-Me' thickness
Nasolabial angle	106.4	7.7	111.53			Normal
Upper lip angle	8.3	5.4	8.54			Normal
<b>Facial length</b>						
Nasion'-Menton'	137.7	6.5	105.37	***		Vertically short face
Upper lip length	24.4	2.5	18.54	**		Short upper lip
Interlabial gap	2.4	1.1	0.35	*		Small interlabial gap
Lower lip length	54.3	2.4	46.44	***		Small lower lip length
Lower 1/3 of face	81.1	4.7	65.32	***		Short lower 1/3 of face
Mx1 exposure	3.9	1.2	5.54	*		Gummy smile(Large Mx1 exposure)
Maxillary height	28.4	3.2	24.08	*		Small maxillary height
Mandibular height	56	3.0	42.28	***		Small mandibular height
<b>Projection to TVL</b>						
Glabella	-8	2.5	-10.77	*		Retruded Glabella
Orbital rims	-22.4	2.7	-27.30	*		Retruded Orbital rims
Cheek bone	-25.2	4.0	-32.86	*		Retruded Cheek bone
Subpupil	-18.4	1.9	-22.73	**		Retruded Subpupil
Alar base	-15	1.7	-18.74	**		Retruded Alar base
Nasal projection	17.4	1.7	10.57	***		Retruded Nasal Tip
Subnasale	0	0.1	0.00			Normal
Apoint	-0.3	1.0	-1.56	*		Retruded A-point
Upper lip anterior'	3.3	1.7	2.08			Normal
Mx1	-12.1	1.8	-16.11	**		Retruded Mx1
Mn1	-15.4	1.9	-7.45	***		Protruded Mn1
Lower lip anterior'	1	2.2	4.16	*		Protruded Lower lip
B point'	-7.1	1.6	-1.38	***		Protruded B-point'
Pogonion'	-3.5	1.8	3.47	***		Protruded Pogonion'
<b>Facial harmony</b>						
Facial angle	169.4	3.2	172.07			Straight facial profile
G' to A'	7.8	2.8	9.21			Normal
G' to Pog'	4.6	2.2	14.24	***		Prognathic mandible
OR' to A'	22.1	3.0	25.74	*		Prominent maxilla
OR' to Pog'	18.9	2.8	30.77	***		Prognathic mandible
Sn to Pog'	4	1.7	-3.47	***		Prognathic mandible
A' to B'	6.8	1.5	-0.17	***		Skeletal Class III
ULAto LLA	2.3	1.2	-2.08	***		Prominent lower lip relative to upper lip
Md1 to Pog'	11.9	2.8	10.92			Normal
LLA to Pog'	4.4	2.5	0.69	*		Posteriorly positioned Lower lip relative to Pog'
B' to Pog'	3.6	1.3	4.85			Normal
NTP to Pog'	61.4	7.4	48.52	*		Small chin-neck distance

# SCREENSHOTS

