

**DAVID ALFI** DDS MD

DSD Digital Smile Design

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*An amazing result for an amazing person.*

US\_DPS\_CMFP\_352104

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Results from Case Studies are not predictive of results in other cases. Results in other cases may vary.

1

**TOES DON'T FIT SHOE!**

Toe Removal Clinic

Dr. Alfi's Large Shoe Store

Toe Lies - Shoe

Next!

Hope this doesn't hurt!

Goodbye, little piggies...

Now Taking Toes

— LONG LINE FOR TOE REMOVAL —

Get Bigger Shoes

Step Right In!

Can't wait to get the new size!

Dr. Alfi's Large Shoe Store

— SHORT LINE FOR BIGGER SHOES —

2



**TREAT & MANAGE SYMPTOMS** ≠ **CURING DISEASE**



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## WHAT WE LEARNED TO MISS & IGNORE



**HYPERTENSION  
DEPRESSION  
ANXIETY  
INSOMNIA  
ADHD  
ERECTILE DYSFUNCTION**



**TMJ PAIN**

GINGIVAL RECESSION



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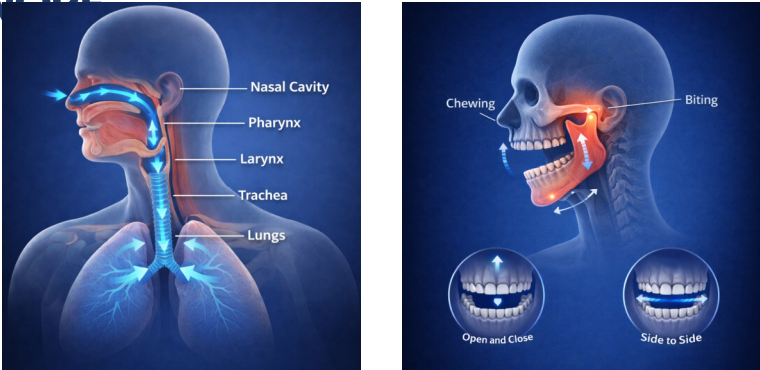
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# WHAT WE LEARNED TO MISS & IGNORE



The left diagram shows the airway pathway from the nasal cavity through the pharynx, larynx, and trachea to the lungs. The right diagram shows the jaw in a chewing position, with labels for 'Chewing' and 'Biting', and two inset images showing 'Open and Close' and 'Side to Side' movements.

**AIRWAY**                      **FUNCTION**



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A vibrant illustration of a retro city street with palm trees and classic cars. A semi-transparent box highlights dental issues: 'PERIODONTITIS' (with sub-labels 'Inflammation' and 'Pocket'), 'GUM RECESSION' and 'ATTACHMENT LOSS', and 'CROWDING'. Other text includes 'BREAKDOWN AND LOSS OF TEETH', 'FRACTURED ROOT CANALS', and 'TRAUMATIC BITES AND MALOCCLUSION'.

**PERIODONTITIS**  
Inflammation    Pocket

**BREAKDOWN AND LOSS OF TEETH**  
**FRACTURED ROOT CANALS**  
**TRAUMATIC BITES AND MALOCCLUSION**

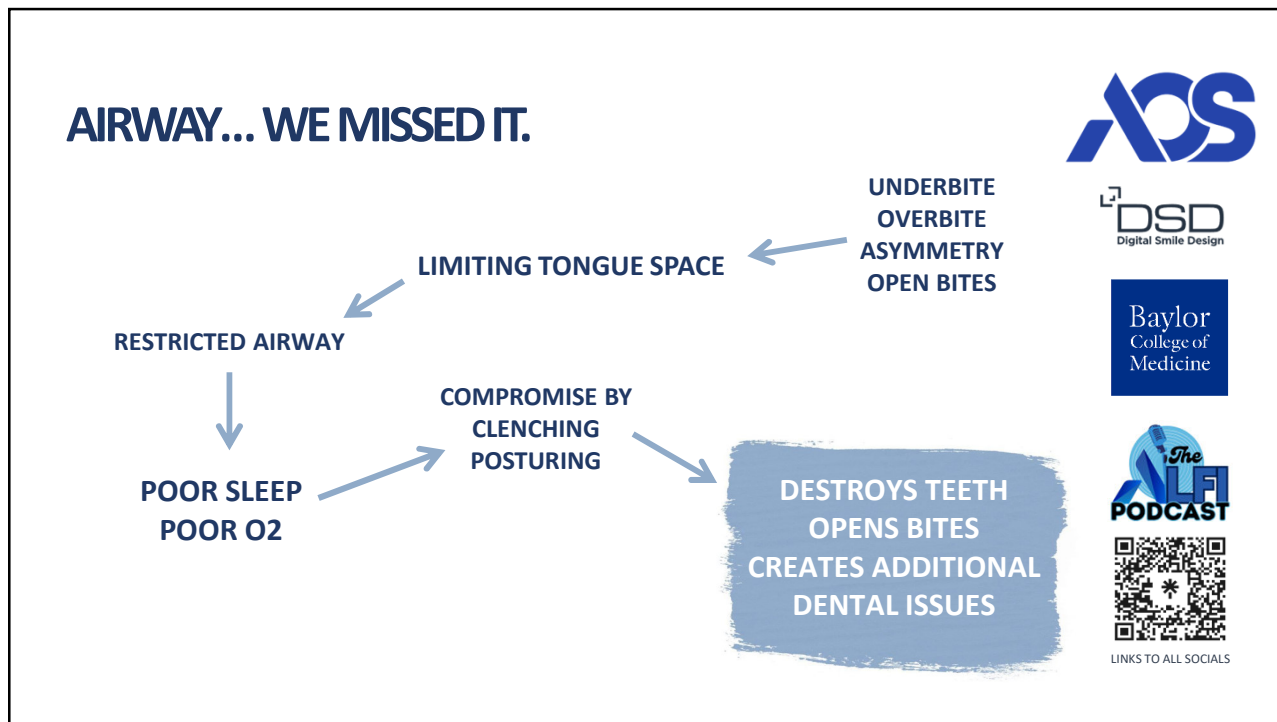
**GUM RECESSION**  
**ATTACHMENT LOSS**

**CROWDING**

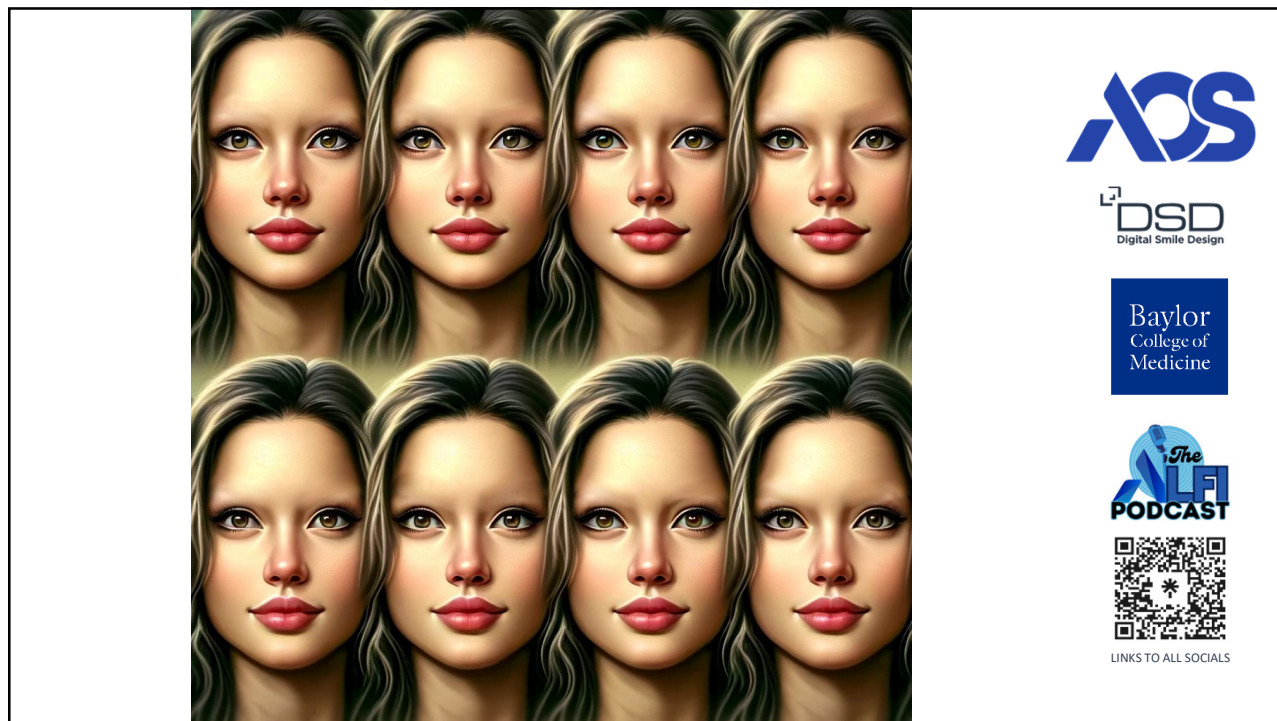


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DA8

# JAW SURGERY, THE REVOLUTION

## WHAT IF

45 minute Double Jaw Surgery  
no wires, scars, elastics  
Outpatient Surgery  
easier recovery  
consistent, stable & predictable results  
fixing airway OSA, aesthetics  
**no relapse**



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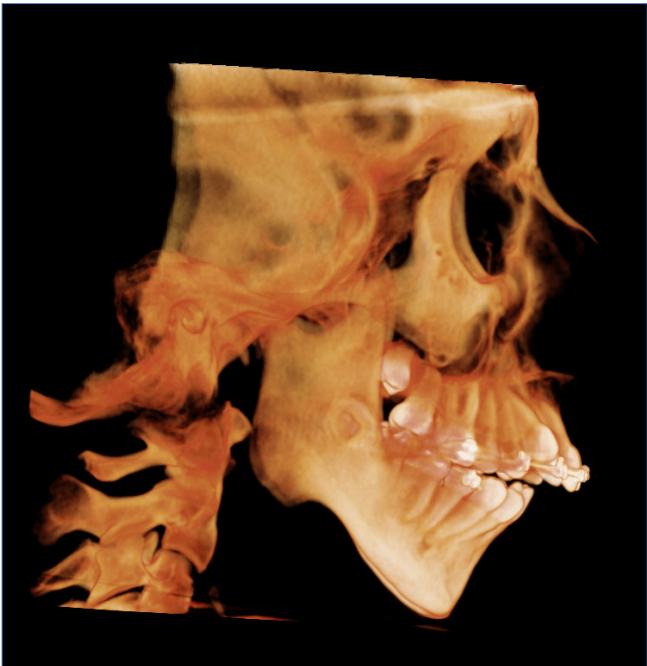


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## Slide 13

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**DA8** David Alfi, 10/25/2023

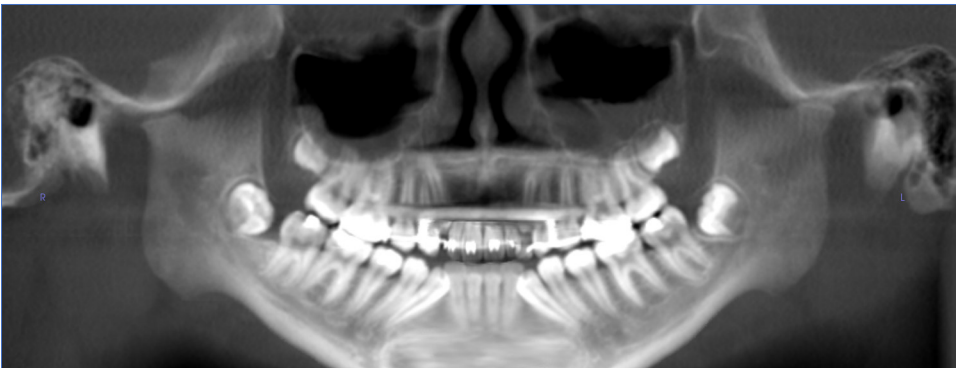


A 3D reconstruction of a human skull and cervical spine, rendered in a translucent orange color. The skull is shown in a three-quarter view, highlighting the facial structure and the base of the skull. The cervical spine is visible below the skull, showing the vertebrae and intervertebral discs.








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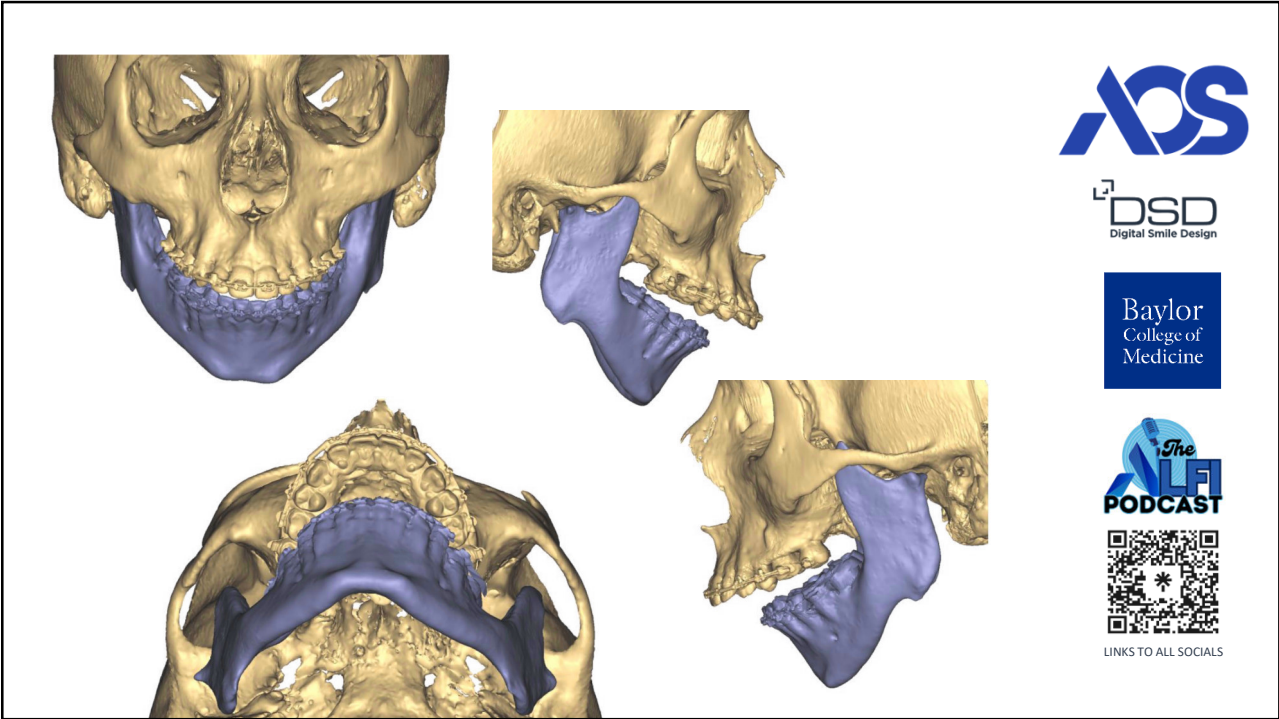
A panoramic radiograph (X-ray) of the mandible. The image shows the entire length of the lower jaw, including the teeth and the temporomandibular joints. The articular fossae are shallow, and the mandibular heads are flat, indicating significant variation in the temporomandibular joints. The intra-articular disc is visualized bilaterally with normal alignment during open and closed positioning. There is no joint effusion.



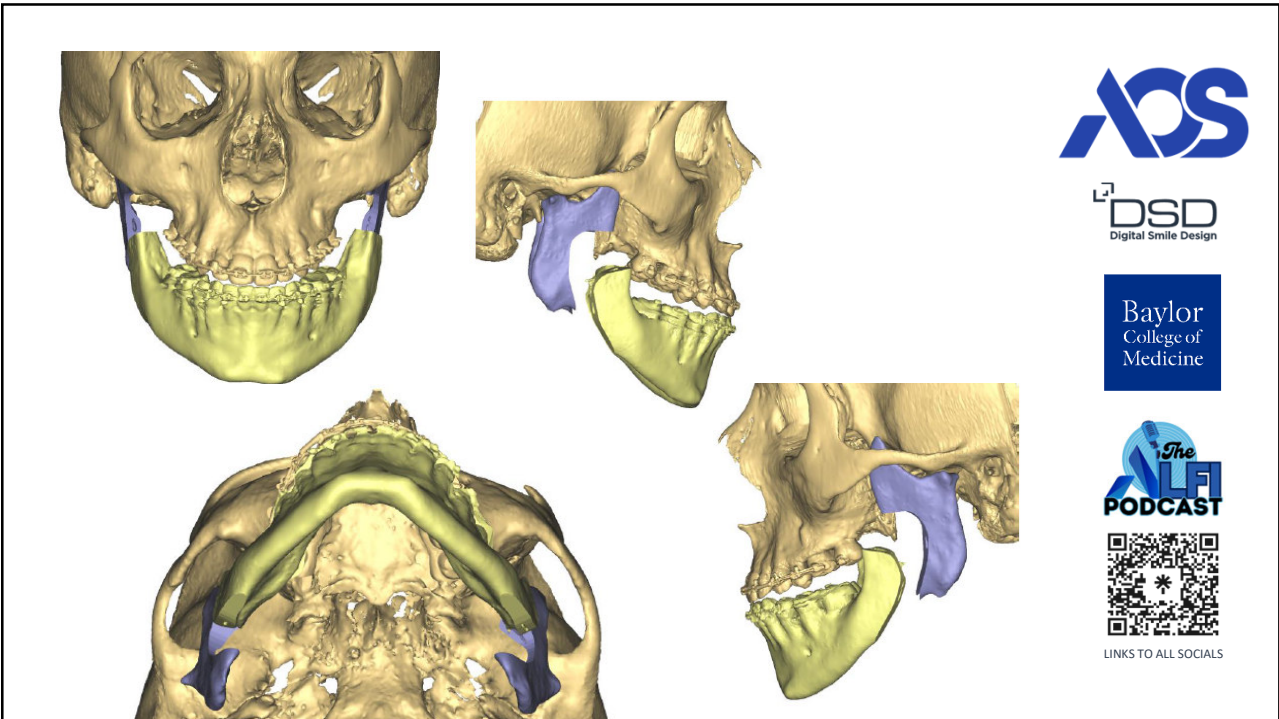
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Significant variation of the temporomandibular joints with the shallow articular fossae and flat mandibular head bilaterally with significant narrowing of the articular joint space. The intra-articular disc is visualized bilaterally with the normal alignment during open and closed positioning. There is no joint effusion.

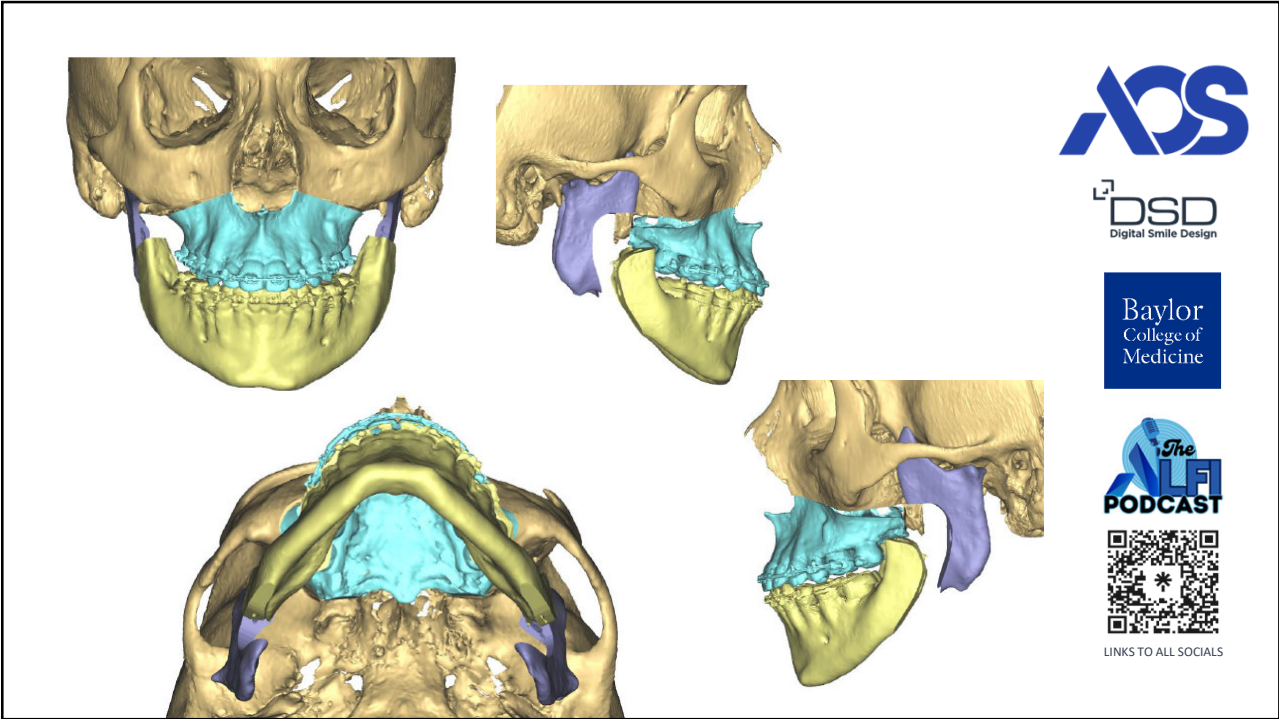
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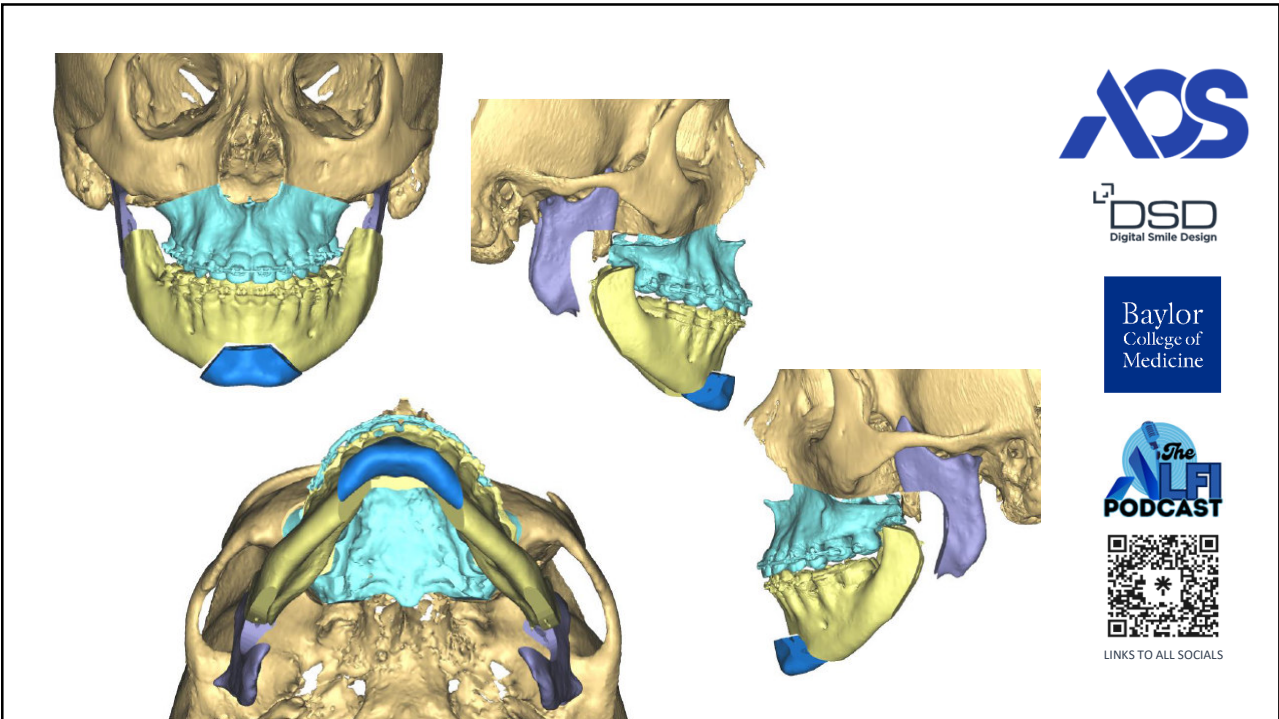
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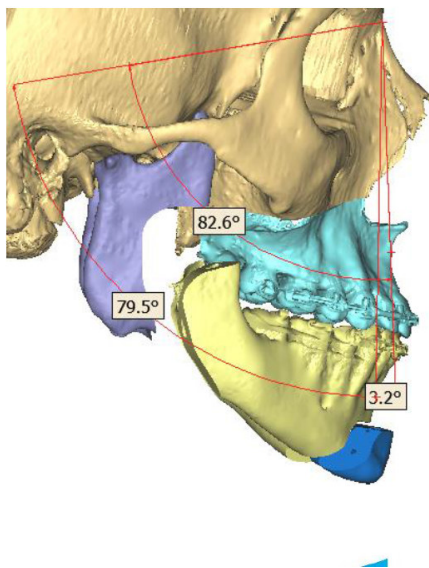


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DA3

Point	Left/Right (mm)	Ant/Post (mm)	Up/Down (mm)
A	0.4 R	0.9 Ant	1.5 Up
ANS	0.7 R	0.0 Ant	2.2 Up
Maxilla Incisor Midline	0.0 R	3.9 Ant	1.9 Up
Maxilla Canine L	0.3 L	4.4 Ant	0.6 Up
Maxilla Canine R	0.3 L	3.1 Ant	0.1 Down
Maxilla 1st Molar L	0.6 L	3.8 Ant	1.3 Down
Maxilla 1st Molar R	0.6 L	2.1 Ant	2.2 Down
L Lateral Buttress	0.2 L	0.9 Ant	1.4 Down
L Medial Buttress	0.5 R	0.9 Post	0.9 Up
R Lateral Buttress	0.5 R	1.6 Post	0.3 Up
R Medial Buttress	0.2 L	1.3 Post	2.6 Down
B	1.9 L	25.1 Ant	0.7 Up
Pog	1.1 L	34.1 Ant	2.8 Down
Me	2.0 L	37.4 Ant	5.2 Down
Mandible Incisor Midline	1.6 L	19.3 Ant	4.0 Up
Mandible Canine L	1.5 L	18.5 Ant	2.6 Up
Mandible Canine R	1.5 L	18.0 Ant	1.7 Up
Mandible 1st Molar L	1.5 L	17.6 Ant	1.7 Down
Mandible 1st Molar R	1.5 L	17.0 Ant	2.9 Down

Measurement (°)	Pre-Op 3D	Planned 3D	Delta 3D
SNA	81.6	82.6	1
SNB	64.5	79.5	15
ANB	17.1	3.2	-13.9
Maxillary Occlusal Plane	20.8	19.2	-1.6

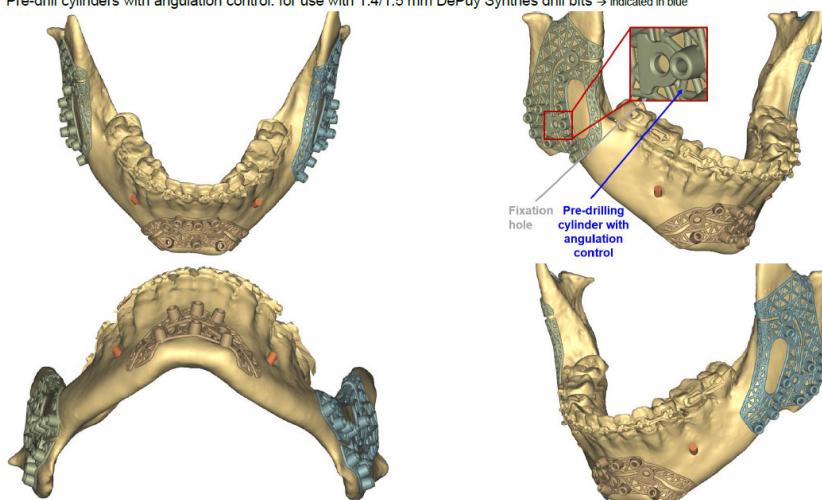


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**Guide Design: Titanium 3D printed Guide for Mandible**

- Fixation hole (temporary fixation of guide): for use with MatrixORTHOGNATHIC Ø1.85 mm screws → indicated in grey
- Pre-drill cylinders with angulation control: for use with 1.4/1.5 mm DePuy Synthes drill bits → indicated in blue



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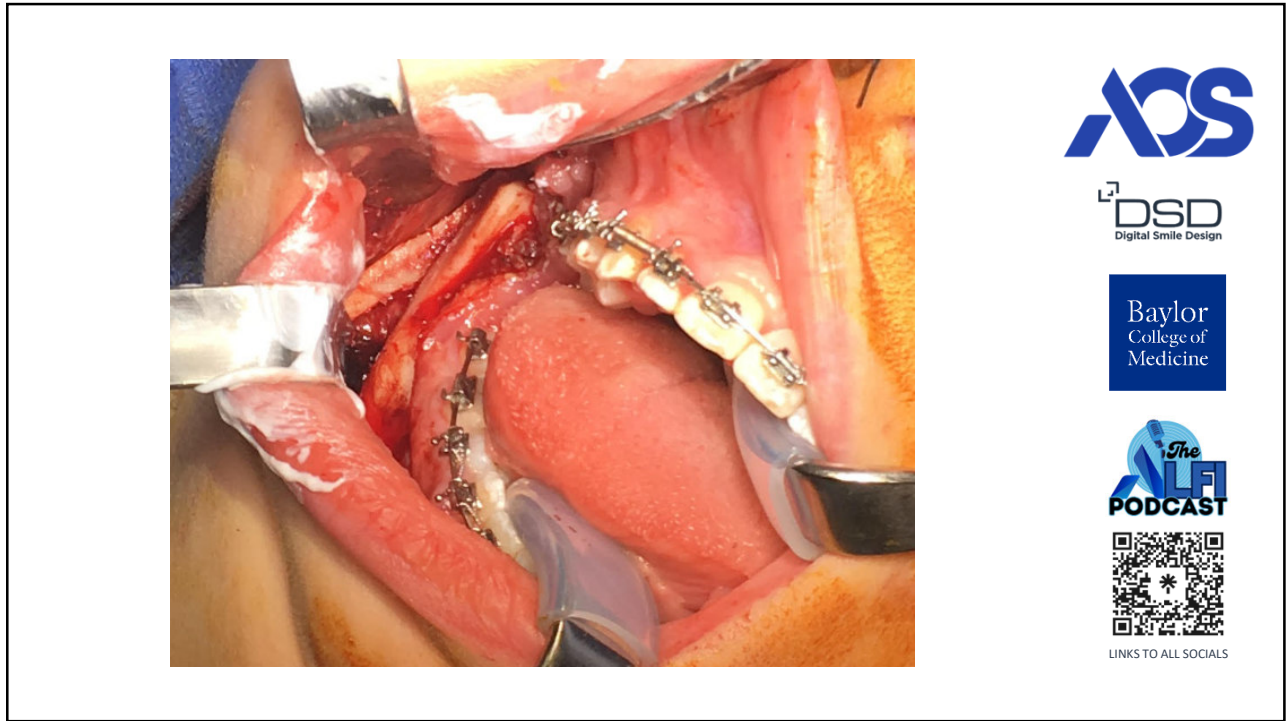
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## Slide 21

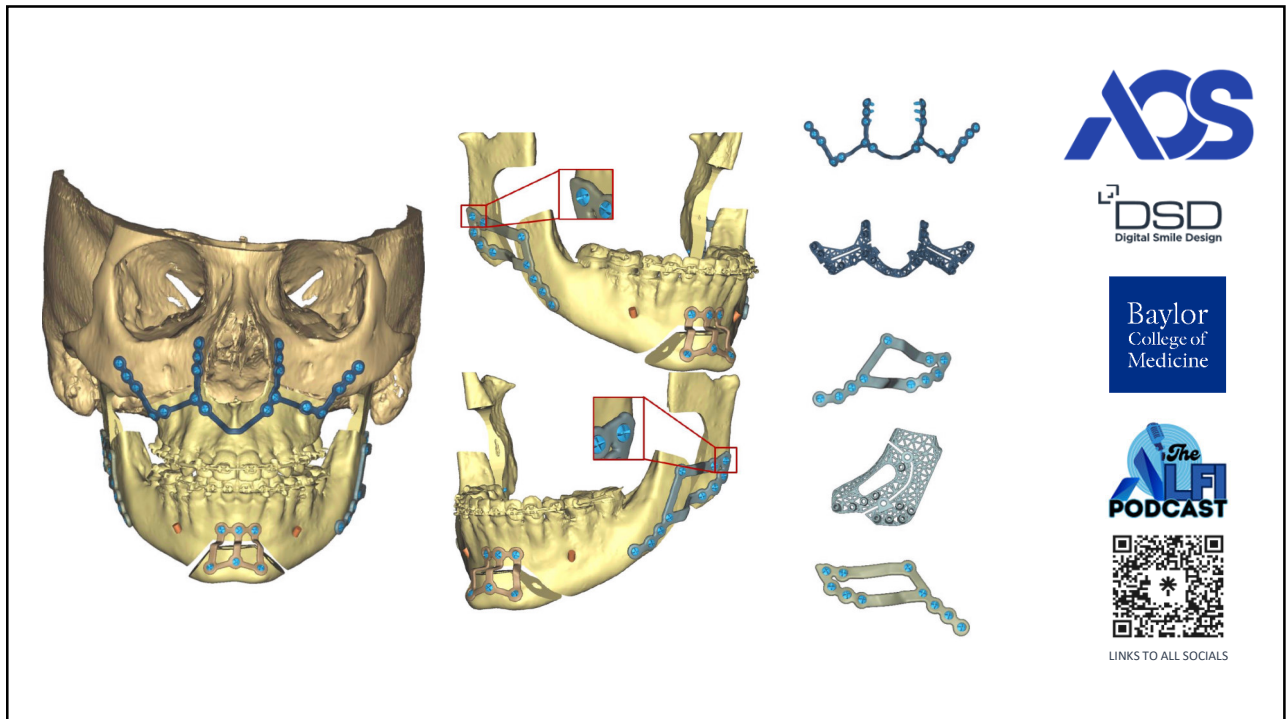
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**DA3** highlight pogonion

David Alfi, 10/23/2023



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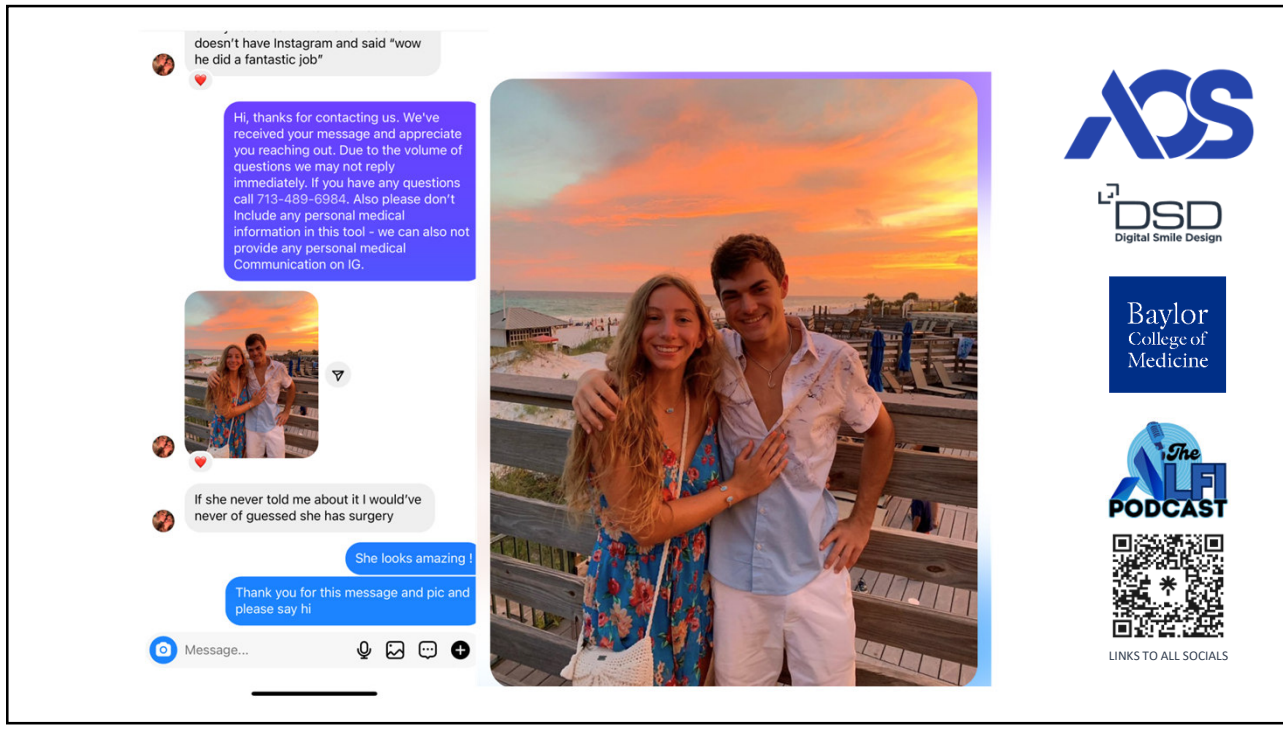
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doesn't have Instagram and said "wow he did a fantastic job"


Hi, thanks for contacting us. We've received your message and appreciate you reaching out. Due to the volume of questions we may not reply immediately. If you have any questions call 713-489-6984. Also please don't include any personal medical information in this tool - we can also not provide any personal medical Communication on IG.

If she never told me about it I would've never of guessed she has surgery

She looks amazing!

Thank you for this message and pic and please say hi

Message...




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**THE ALFI PODCAST**

**THE PATIENT WHO STARTED IT ALL**



SCAN HERE TO WATCH PODCAST EPISODE



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# USING TODAY'S TOOLS



**VIRTUAL PLANNING**



**CUSTOM TITANIUM PRINTED GUIDES & PLATES**



**BONE REGENERATION (VIVEGEN)**

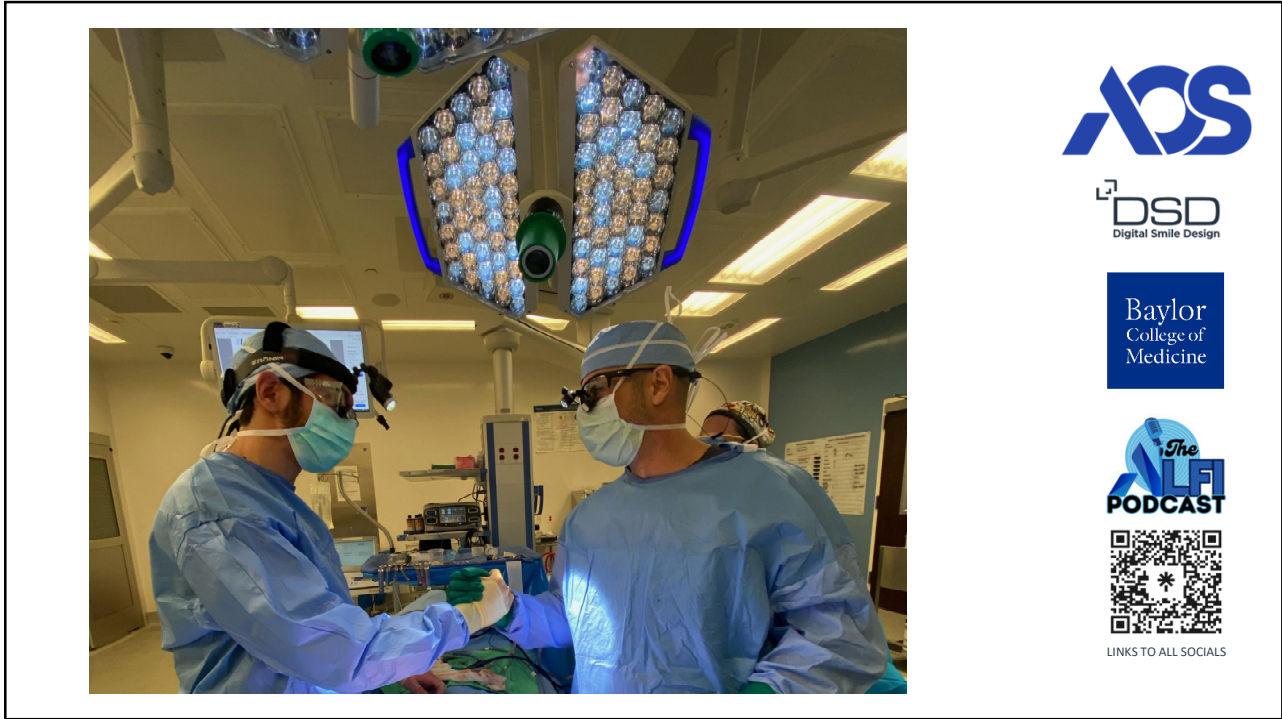


**CUTTING TOOLS (PIEZOSURGERY)**



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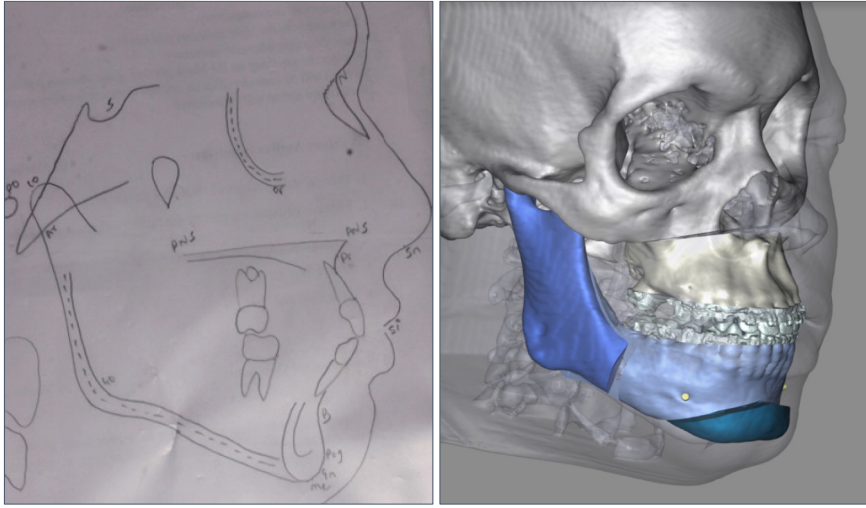
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The image on the left is a hand-drawn dental diagram showing a lateral view of a skull and jaw. It includes various anatomical labels such as 'S', 'PNS', 'PNS', 'Sn', 'S1', 'S2', 'S3', 'S4', 'S5', 'S6', 'S7', 'S8', 'S9', 'S10', 'S11', 'S12', 'S13', 'S14', 'S15', 'S16', 'S17', 'S18', 'S19', 'S20', 'S21', 'S22', 'S23', 'S24', 'S25', 'S26', 'S27', 'S28', 'S29', 'S30', 'S31', 'S32', 'S33', 'S34', 'S35', 'S36', 'S37', 'S38', 'S39', 'S40', 'S41', 'S42', 'S43', 'S44', 'S45', 'S46', 'S47', 'S48', 'S49', 'S50', 'S51', 'S52', 'S53', 'S54', 'S55', 'S56', 'S57', 'S58', 'S59', 'S60', 'S61', 'S62', 'S63', 'S64', 'S65', 'S66', 'S67', 'S68', 'S69', 'S70', 'S71', 'S72', 'S73', 'S74', 'S75', 'S76', 'S77', 'S78', 'S79', 'S80', 'S81', 'S82', 'S83', 'S84', 'S85', 'S86', 'S87', 'S88', 'S89', 'S90', 'S91', 'S92', 'S93', 'S94', 'S95', 'S96', 'S97', 'S98', 'S99', 'S100'. The image on the right is a 3D digital model of a human skull and jaw, with a blue overlay on the lower jaw area.




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The image shows a 3D digital model of a human skull and jaw, with the teeth highlighted in red.








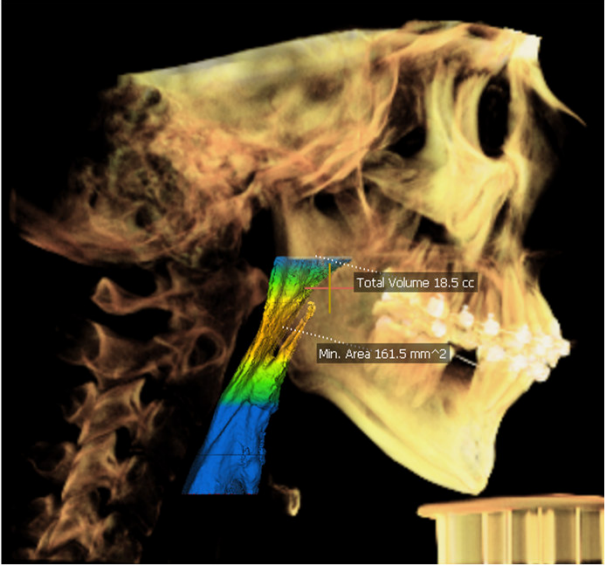
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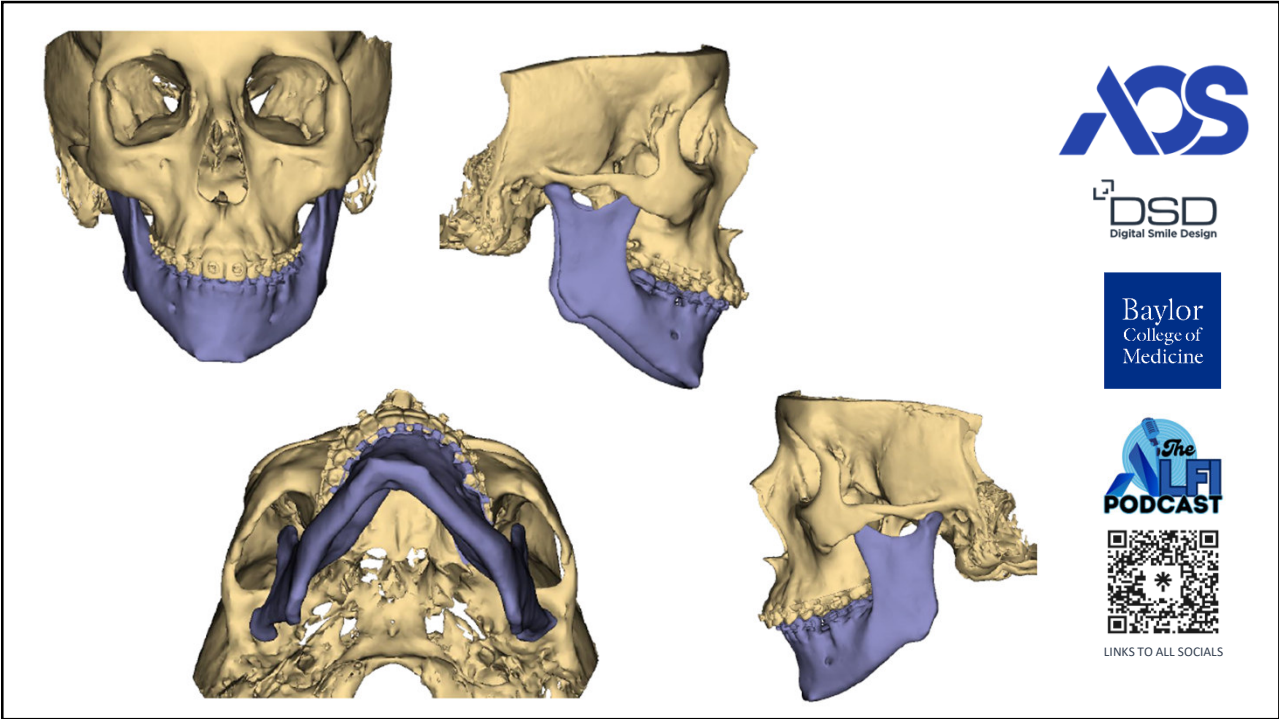
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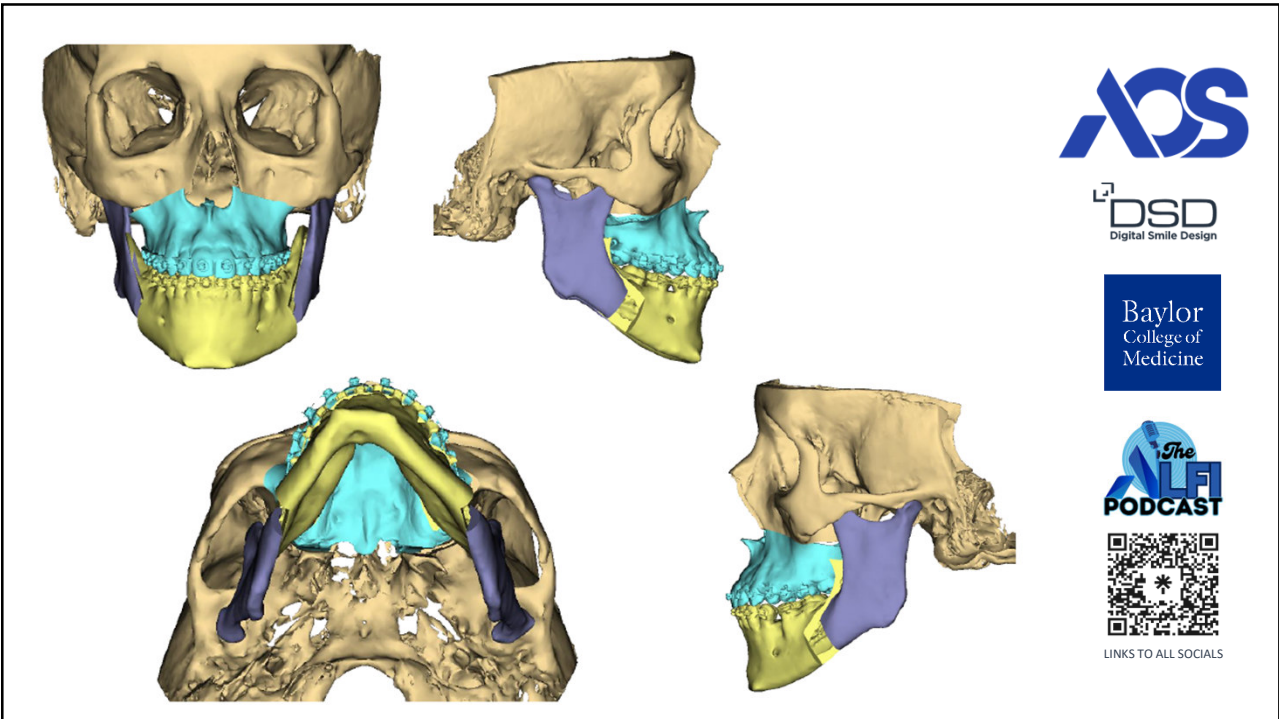


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### Surgical Plan: Cephalometric Analyses

The mandible measurements shown below are referenced from the original position of the mandible, at the time the CT was taken.






Point	Left/Right (mm)	Ant/Post (mm)	Up/Down (mm)
A	2.6 R	1.8 Ant	2.8 Up
ANS	3.1 R	0.7 Ant	3.7 Up
Maxilla Incisor Midline	1.5 R	6.0 Ant	4.0 Up
Maxilla Canine L	1.2 R	6.4 Ant	3.3 Up
Maxilla Canine R	1.3 R	5.2 Ant	1.4 Up
Maxilla 1st Molar L	0.9 R	5.7 Ant	0.2 Up
Maxilla 1st Molar R	1.1 R	3.9 Ant	2.4 Down
L Lateral Buttress	2.4 R	1.7 Ant	1.1 Up
L Medial Buttress	3.3 R	0.4 Post	2.5 Up
R Lateral Buttress	2.3 R	0.1 Post	2.5 Down
R Medial Buttress	3.3 R	0.9 Post	1.6 Up
B	2.8 R	13.1 Ant	0.1 Up
Pog	2.2 R	14.7 Ant	0.0 Up
Me	1.9 R	15.3 Ant	0.5 Down
Mandible Incisor Midline	4.2 R	9.8 Ant	1.0 Up
Mandible Canine L	3.8 R	10.7 Ant	0.8 Up
Mandible Canine R	3.9 R	8.7 Ant	0.4 Down
Mandible 1st Molar L	3.0 R	10.9 Ant	0.9 Down
Mandible 1st Molar R	3.1 R	8.2 Ant	2.6 Down

Measurement (°)	Pre-Op 3D	Planned 3D	Delta 3D
SNA	81.6	83.7	2.0
SNB	75.1	82.6	7.5
ANB	6.6	1.1	-5.4
Maxillary Occlusal Plane	18.5	8.1	-10.4


  

  

  

  

  
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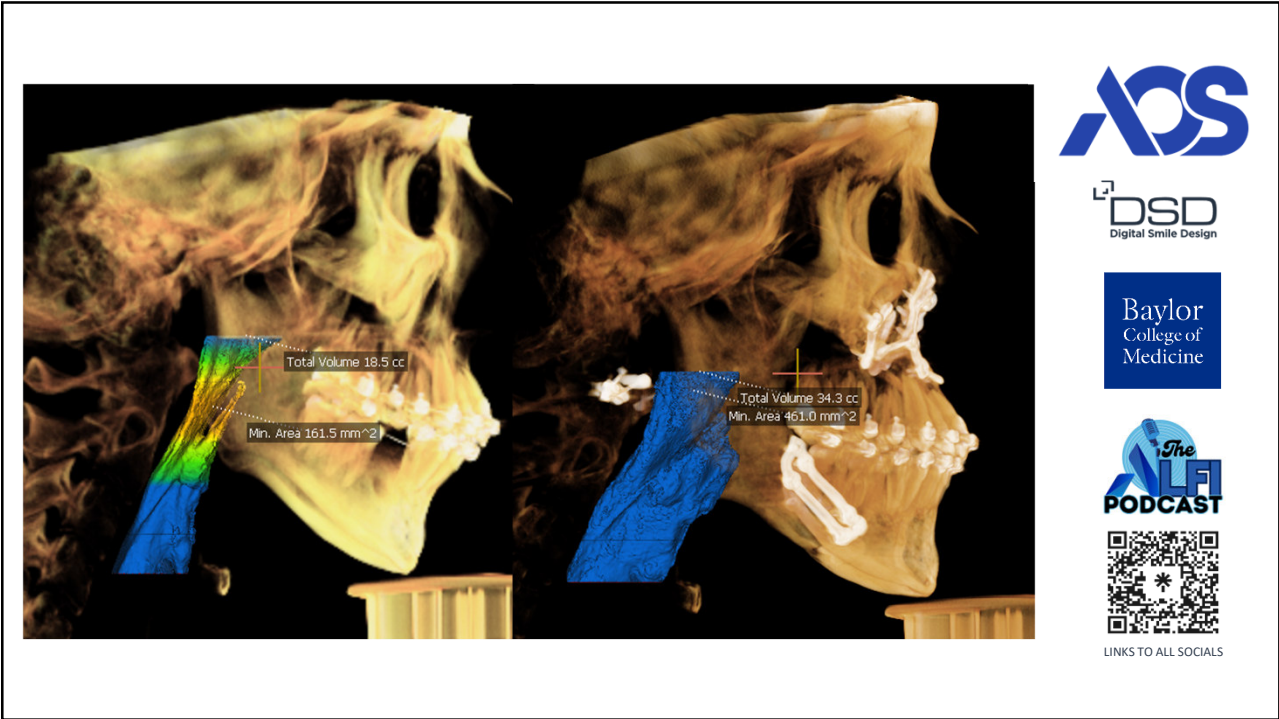
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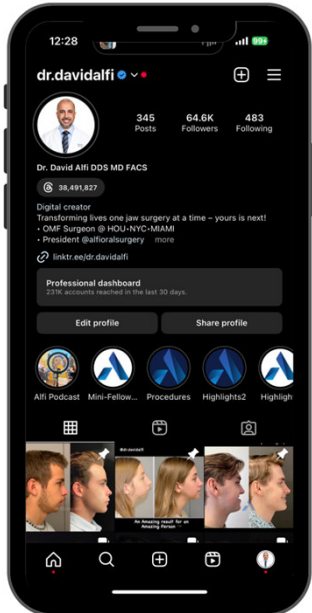
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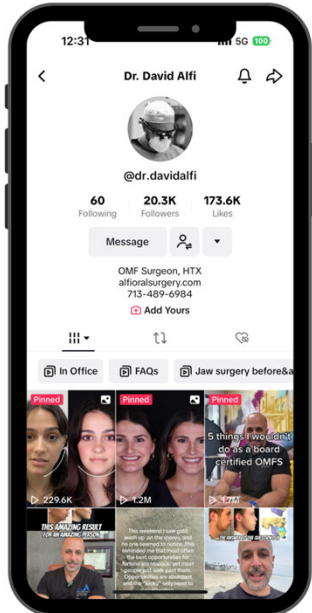



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**FOLLOW US ON SOCIAL MEDIA**

















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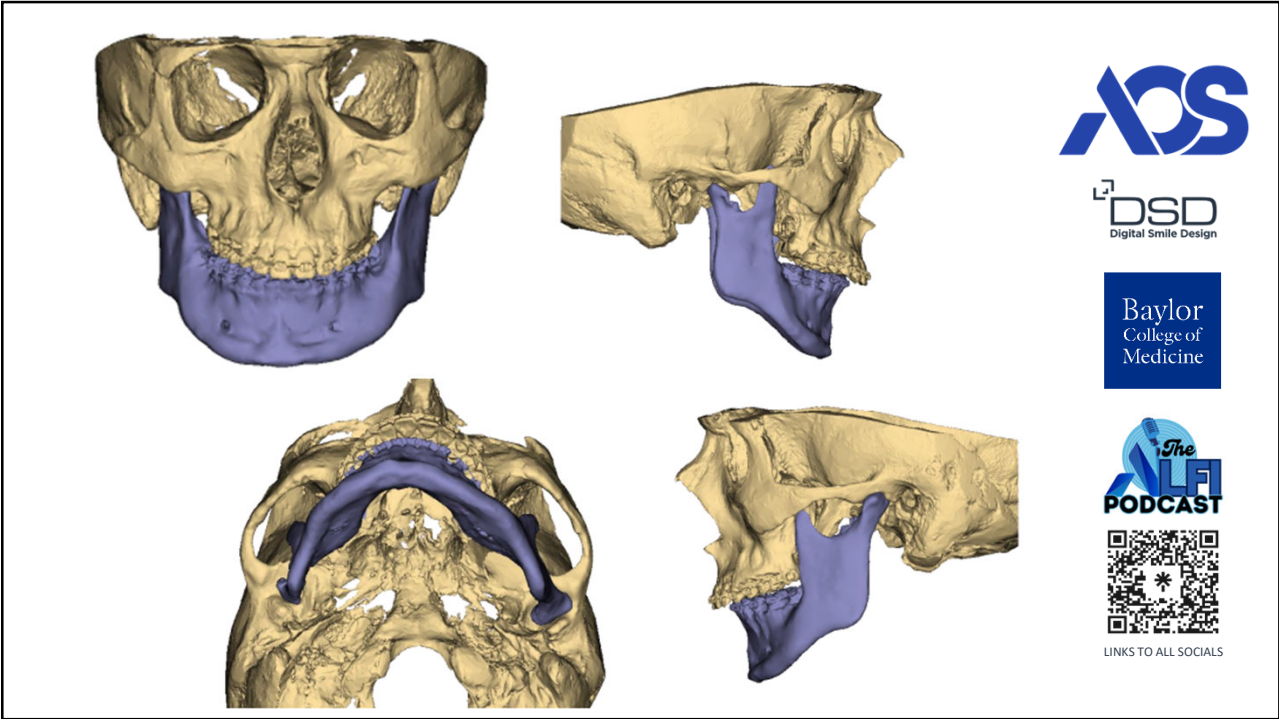




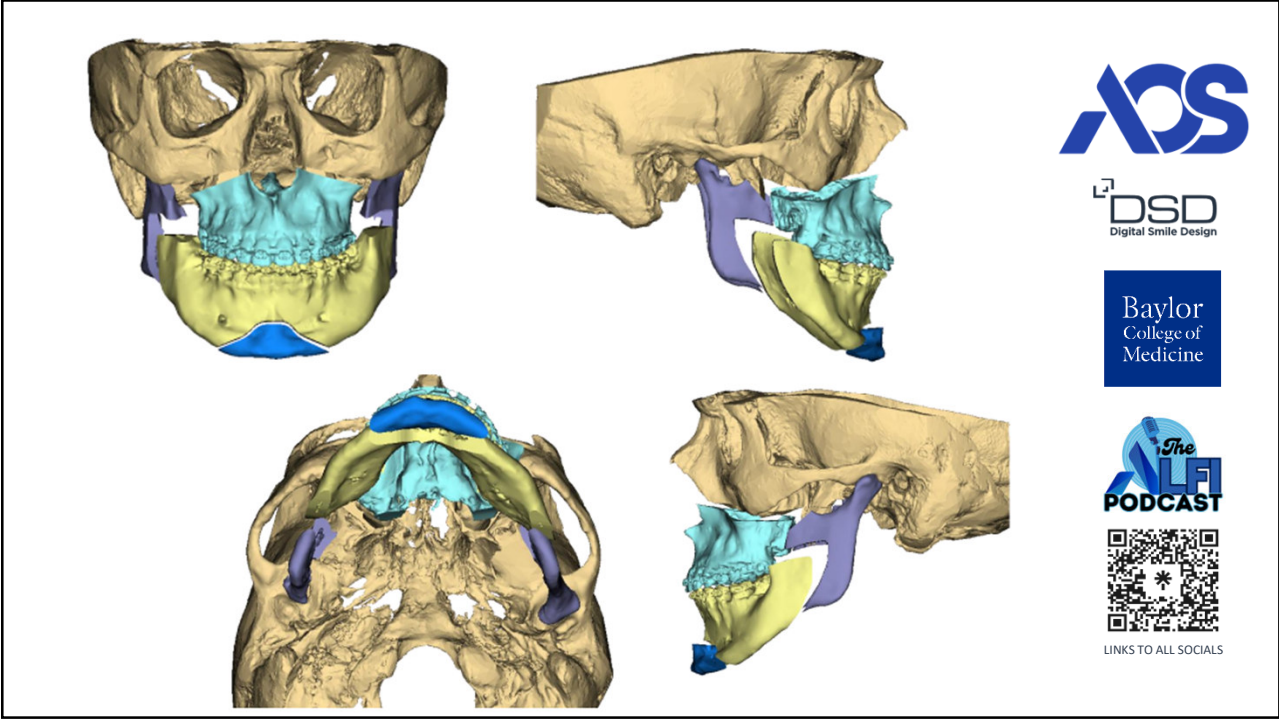


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Point	Left/Right (mm)	Ant/Post (mm)	Up/Down (mm)
A	1.2 L	7.1 Ant	1.1 Down
ANS	0.8 L	6.3 Ant	0.5 Down
Maxilla Incisor Midline	1.5 L	9.5 Ant	1.0 Down
Maxilla 1st Molar L	2.8 L	10.6 Ant	3.2 Down
Maxilla 1st Molar R	2.6 L	7.2 Ant	3.8 Down
L Lateral Buttress	2.2 L	7.8 Ant	2.8 Down
L Medial Buttress	0.9 L	5.4 Ant	1.0 Down
R Lateral Buttress	2.5 L	3.6 Ant	4.4 Down
R Medial Buttress	1.1 L	4.2 Ant	1.7 Down
B	6.5 L	16.1 Ant	3.7 Down
Pog	6.8 L	21.9 Ant	5.1 Down
Me	6.7 L	22.3 Ant	5.4 Down
Mandible Incisor Midline	6.5 L	15.0 Ant	3.4 Down
Mandible 1st Molar L	5.0 L	12.9 Ant	3.7 Down
Mandible 1st Molar R	4.7 L	16.6 Ant	5.3 Down



  

Measurement (°)	Pre-Op 3D	Planned 3D	Delta 3D
SNA	74.8	81.9	7.2
SNB	67.3	77.7	10.3
ANB	8.2	4.3	-4.0
Maxillary Occlusal Plane	16.4	9.1	-7.4




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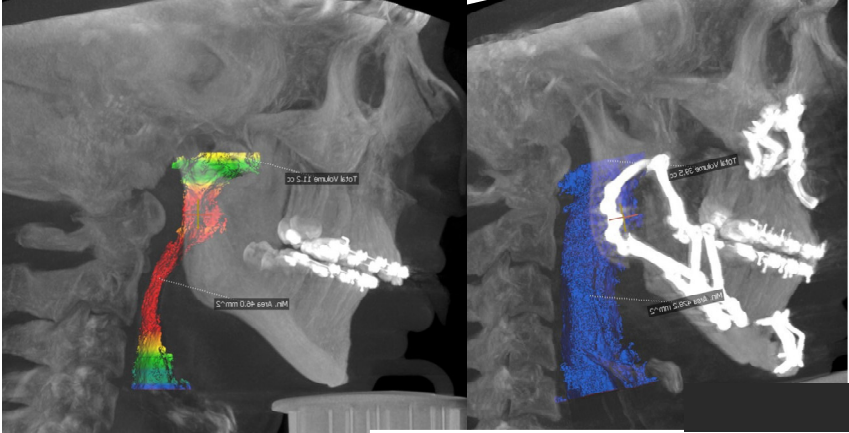
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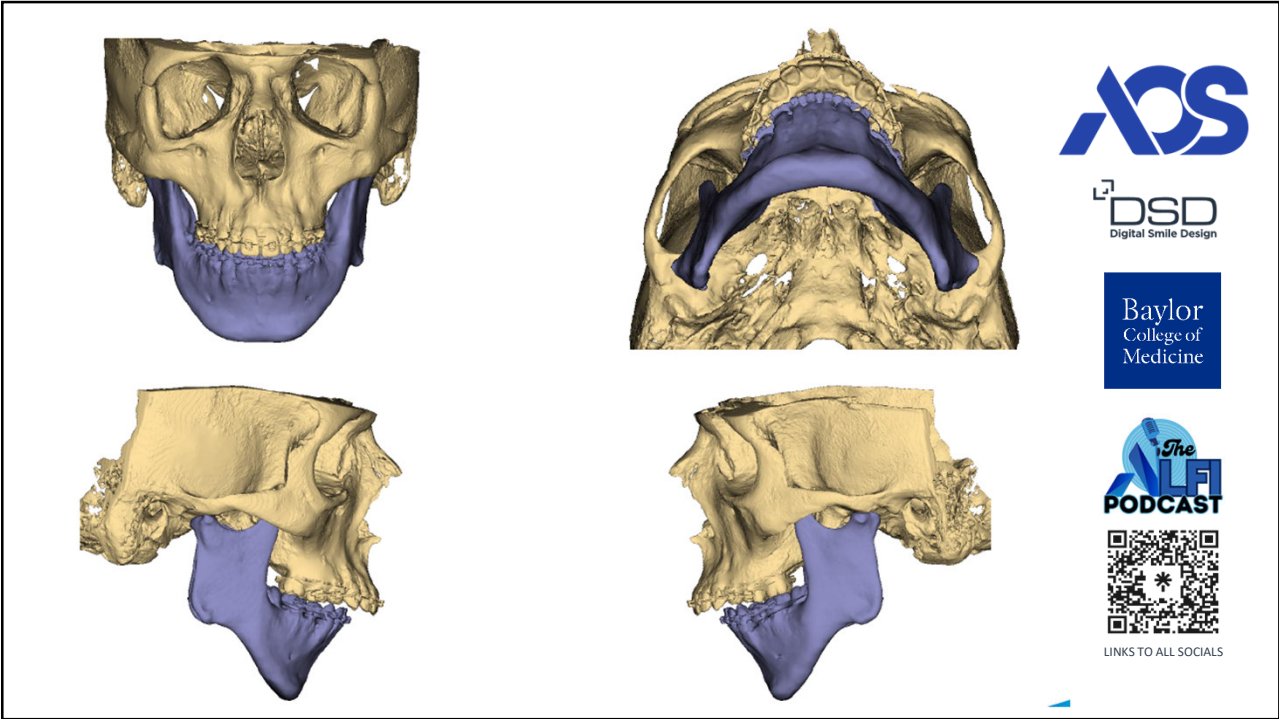
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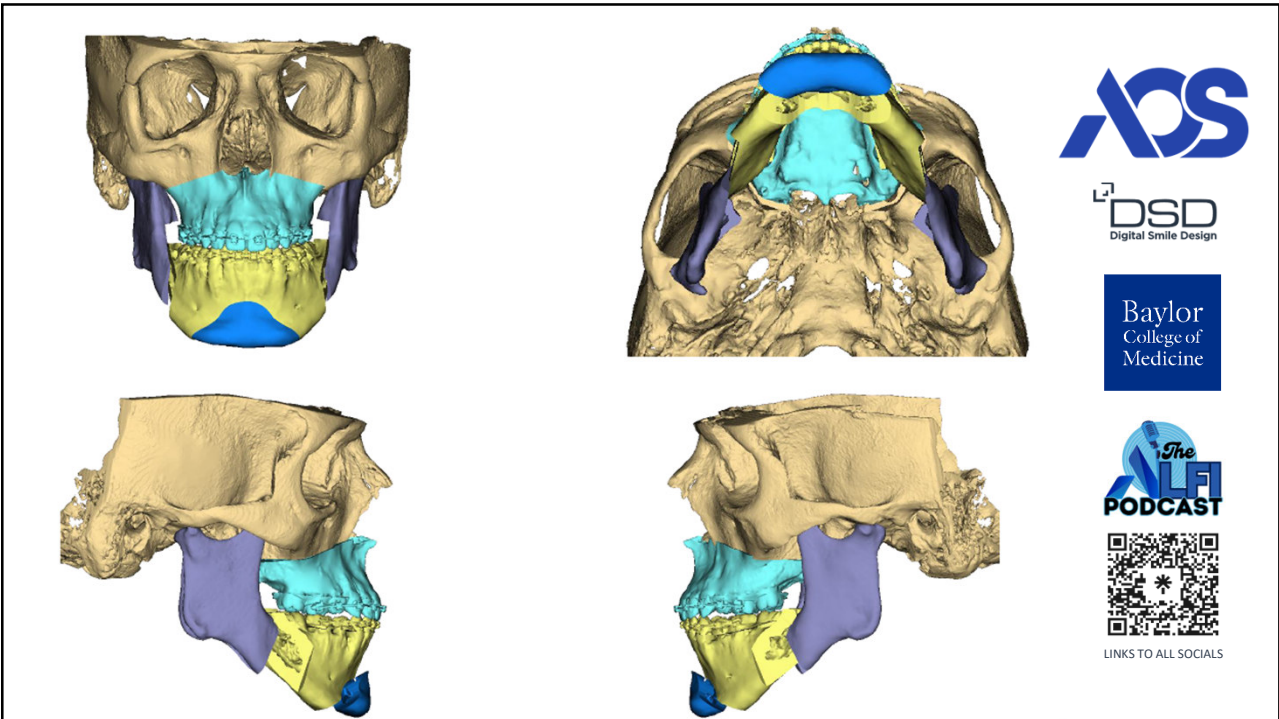
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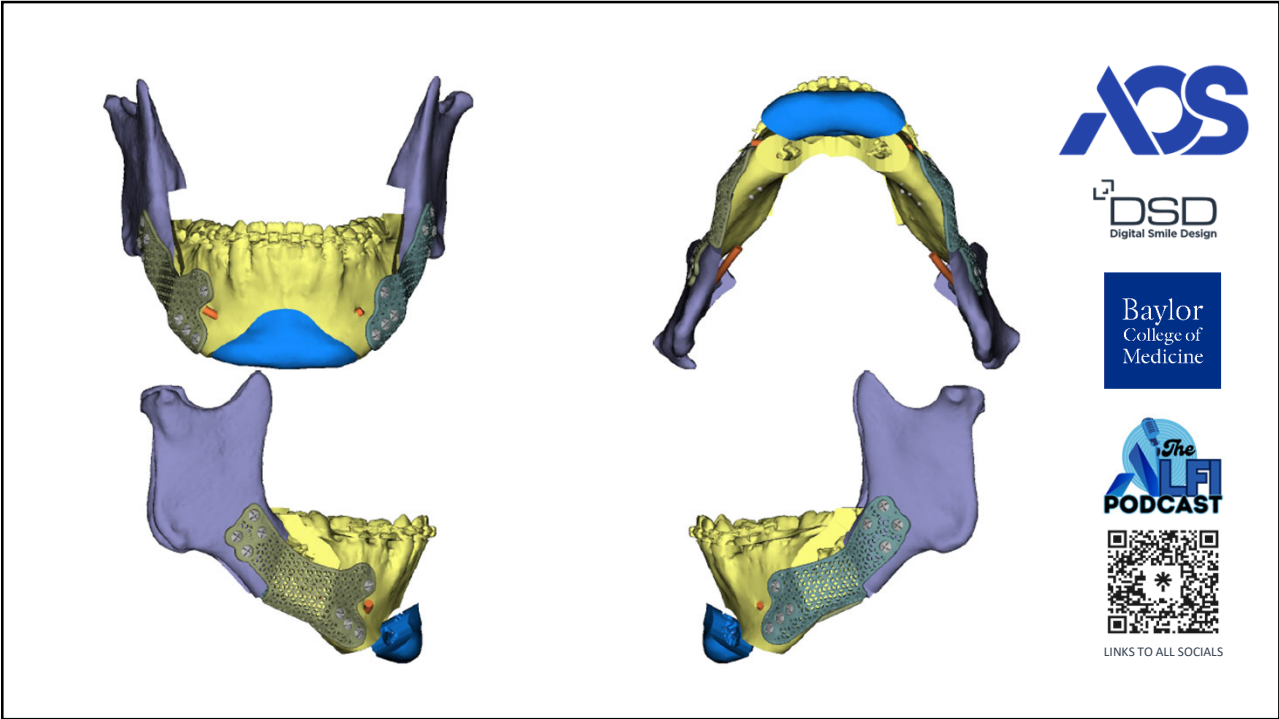
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### Surgical Plan: Cephalometric Analyses

The mandible measurements shown below are referenced from the original position of the mandible, at the time the CT was taken.

Point	Left/Right (mm)	Ant/Post (mm)	Up/Down (mm)
A	0.5 R	3.6 Ant	3.6 Up
ANS	0.7 R	2.5 Ant	4.1 Up
Maxilla Incisor Midline	0.0 N/A	6.0 Ant	4.0 Up
Maxilla Canine L	0.1 R	5.8 Ant	3.5 Up
Maxilla Canine R	0.1 R	5.9 Ant	2.8 Up
Maxilla 1st Molar L	0.2 R	5.5 Ant	2.1 Up
Maxilla 1st Molar R	0.2 R	5.7 Ant	1.1 Up
L Lateral Buttress	0.8 R	2.8 Ant	1.8 Up
L Medial Buttress	0.8 R	2.3 Ant	3.2 Up
R Lateral Buttress	0.8 R	3.2 Ant	0.2 Up
R Medial Buttress	0.8 R	2.4 Ant	2.9 Up
B	0.8 L	22.9 Ant	1.2 Up
Pog	0.9 L	34.8 Ant	3.6 Up
Me	0.9 L	37.8 Ant	1.3 Up
Mandible Incisor Midline	0.8 L	16.3 Ant	4.2 Up
Mandible Canine L	0.7 L	16.1 Ant	2.5 Up
Mandible Canine R	0.7 L	16.0 Ant	2.3 Up
Mandible 1st Molar L	0.5 L	15.4 Ant	1.1 Down
Mandible 1st Molar R	0.5 L	15.9 Ant	1.0 Down

Measurement (°)	Pre-Op 3D	Planned 3D	Delta 3D
SNA	75.1	78.6	+3.5
SNB	63.0	75.1	+12.1
ANB	12.1	3.7	-8.4
Maxillary Occlusal Plane	13.1	7.1	-6.0

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**CC:** left TMJ pain  
**HPI:** The patient is a 55-year-old woman who has had left TMJ problems for 13 years. She has managed her symptoms with an orthotic, until 3 months ago when she got worse. Now, she has daily. The pain is episodic, sometimes happening while at rest, other times when talking, or when chewing. The pain is severe is localized in the left temple, and left masseter, radiating, over the head, to the contralateral temple.

In addition to the pain, the patient has had intermitted locking (closed) of the left TMJ. She always been able to unlock her joint , by manipulating it.




**X-RAYS:** CBCT TMs: Severe degenerative changes in the TMs, left worse than right. On the left, there is significant condylar erosion, with irregular articular surface and significantly decrease joint space. On the right, the condyle has a large pseudocyst and some osteophytes.

**ASSESSMENT:**

1. Severe left TMJ osteoarthritis, with severe arthralgia.
2. Moderate to severe right TMJ osteoarthritis, with mild arthralgia.


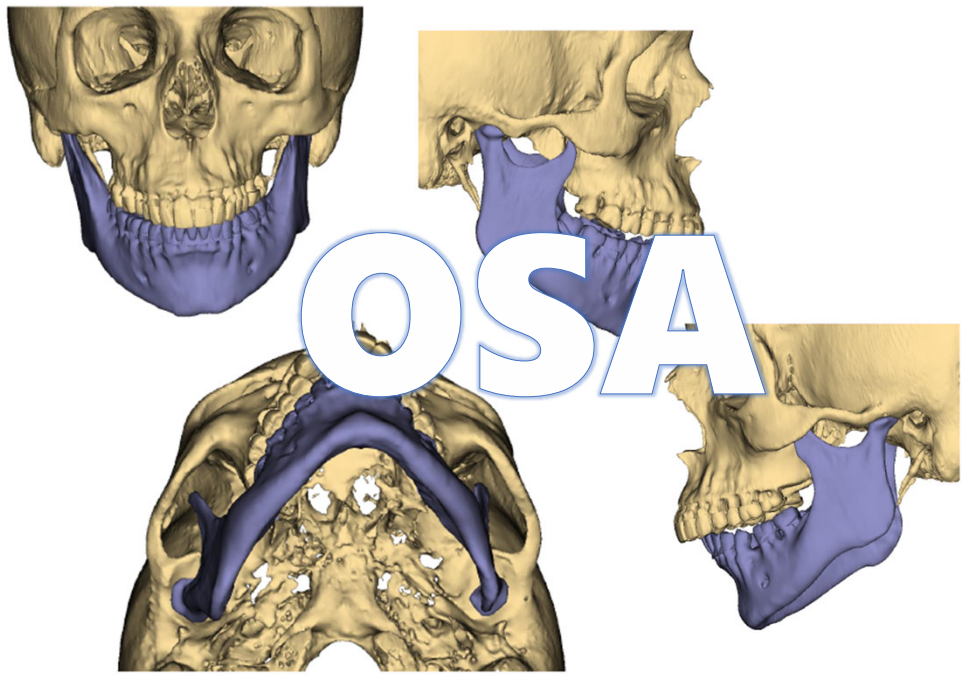
**PLAN:**

1. Kenalog injection in the left TMJ, under sedation
2. The patient may need a total joint replacement



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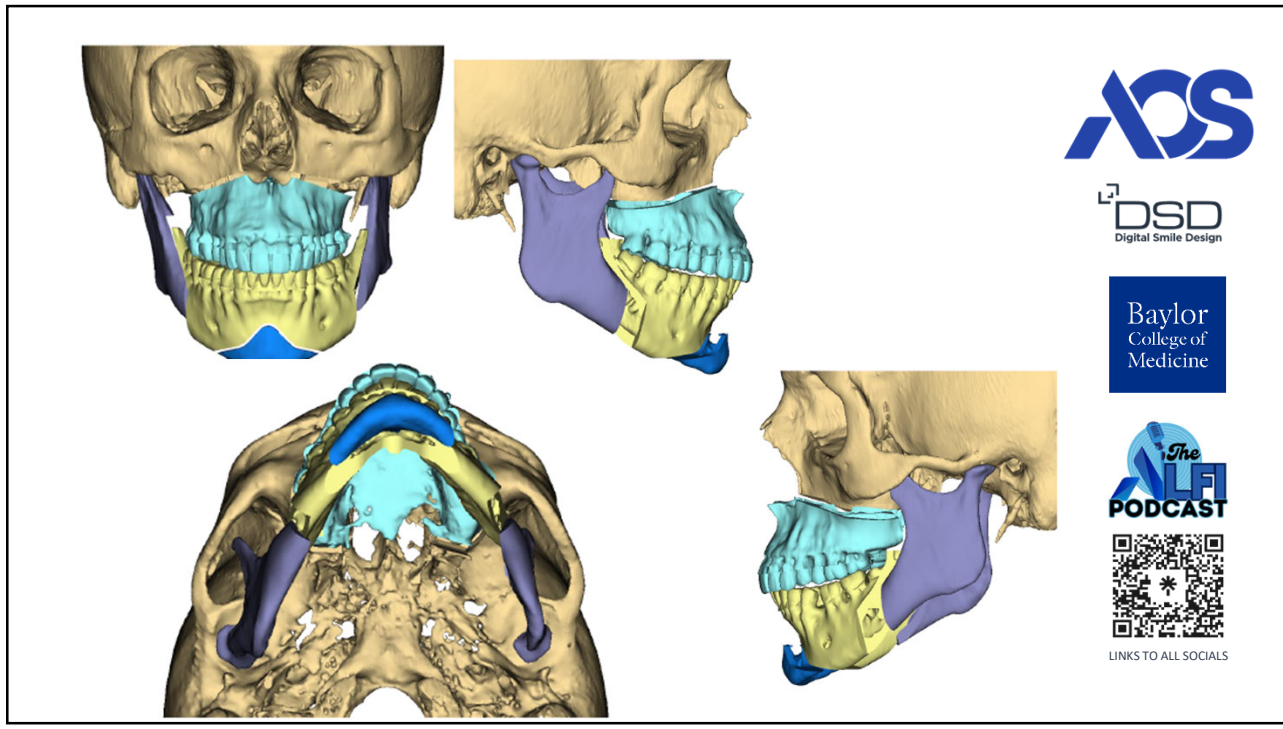
DA9



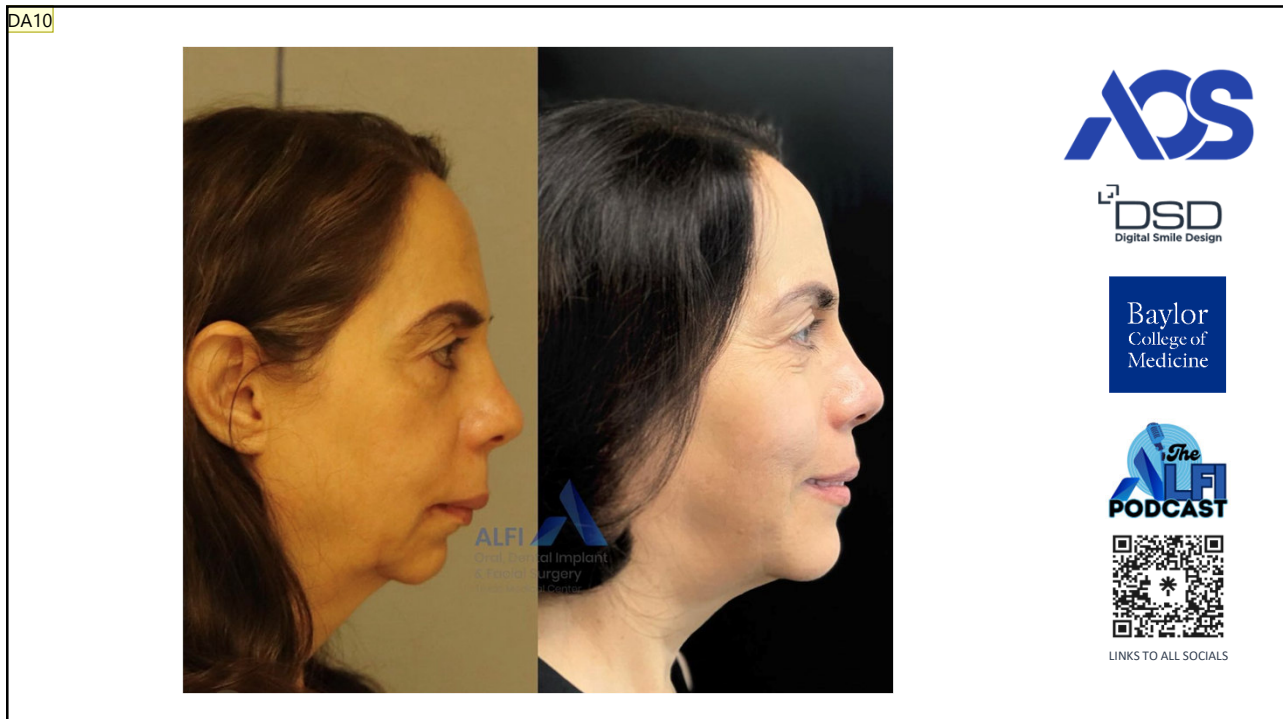
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**DA9** animate sleep study >> OSA

David Alfi, 10/23/2023



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## Slide 64

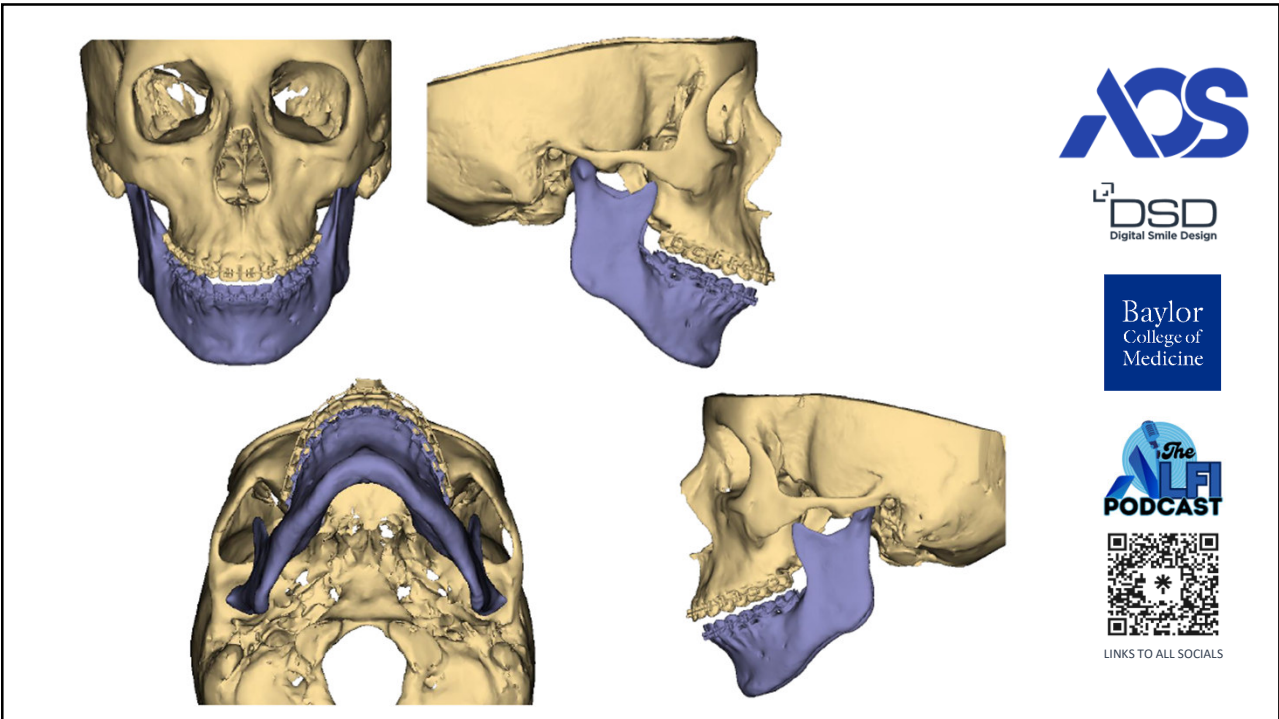
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**DA10** animate - bullet points - TMJ symptoms gone, concentration improved, restfulness restored, better sleep, better mood , BP improved

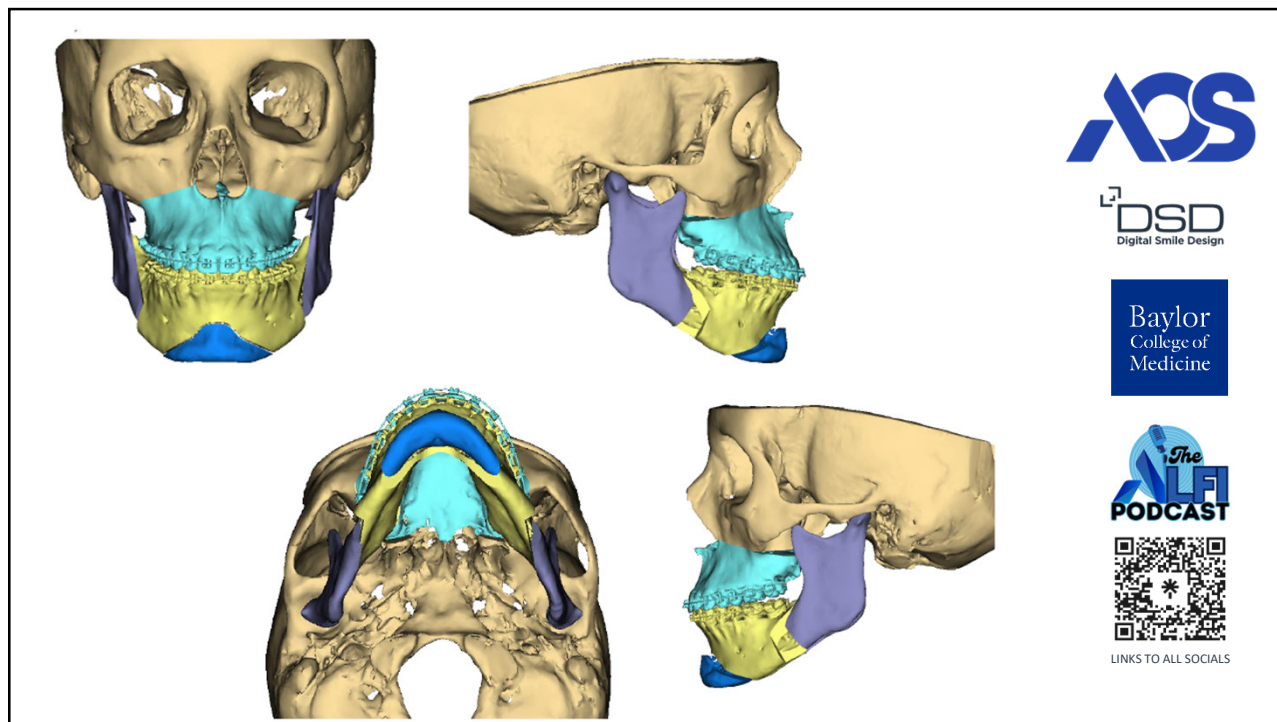
David Alfi, 10/23/2023



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### Surgical Plan: Cephalometric Analyses

The mandible measurements shown below are referenced from the original position of the mandible, at the time the CT was taken.

Point	Left/Right (mm)	Ant/Post (mm)	Up/Down (mm)
A	0.6 L	1.5 Ant	3.9 Up
ANS	0.6 L	0.8 Ant	3.8 Up
Maxilla Incisor Midline	0.5 L	5.0 Ant	4.5 Up
Maxilla Canine L	0.4 L	4.6 Ant	3.1 Up
Maxilla Canine R	0.4 L	5.1 Ant	3.2 Up
Maxilla 1st Molar L	0.1 L	3.6 Ant	0.1 Up
Maxilla 1st Molar R	0.1 L	4.3 Ant	0.3 Up
L Lateral Buttress	0.2 L	0.3 Post	0.3 Down
L Medial Buttress	0.5 L	1.1 Post	2.7 Up
R Lateral Buttress	0.0 N/A	0.0 N/A	0.0 N/A
R Medial Buttress	0.5 L	0.7 Post	2.6 Up
B	0.6 R	11.9 Ant	5.7 Up
Pog	0.9 R	19.5 Ant	4.5 Up
Me	1.1 R	21.5 Ant	3.4 Up
Mandible Incisor Midline	0.3 R	7.4 Ant	8.4 Up
Mandible Canine L	0.2 R	7.0 Ant	6.5 Up
Mandible Canine R	0.2 R	7.0 Ant	7.1 Up
Mandible 1st Molar L	0.0 R	6.0 Ant	1.2 Up
Mandible 1st Molar R	0.0 R	5.6 Ant	2.0 Up

Measurement (°)	Pre-Op 3D	Planned 3D	Delta 3D
SNA	83.7	85.4	1.7
SNB	74.4	81.1	6.7
ANB	9.3	4.8	-4.6
Maxillary Occlusal Plane	18.7	9.7	-9.0

68



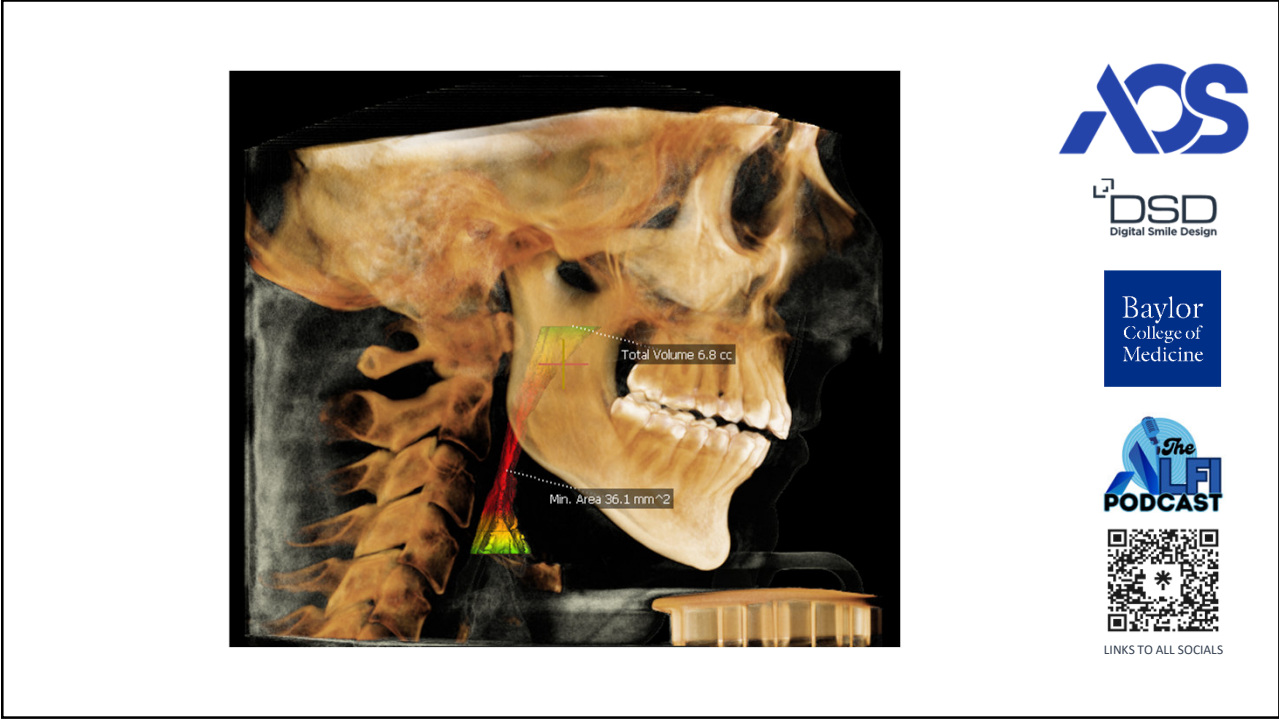
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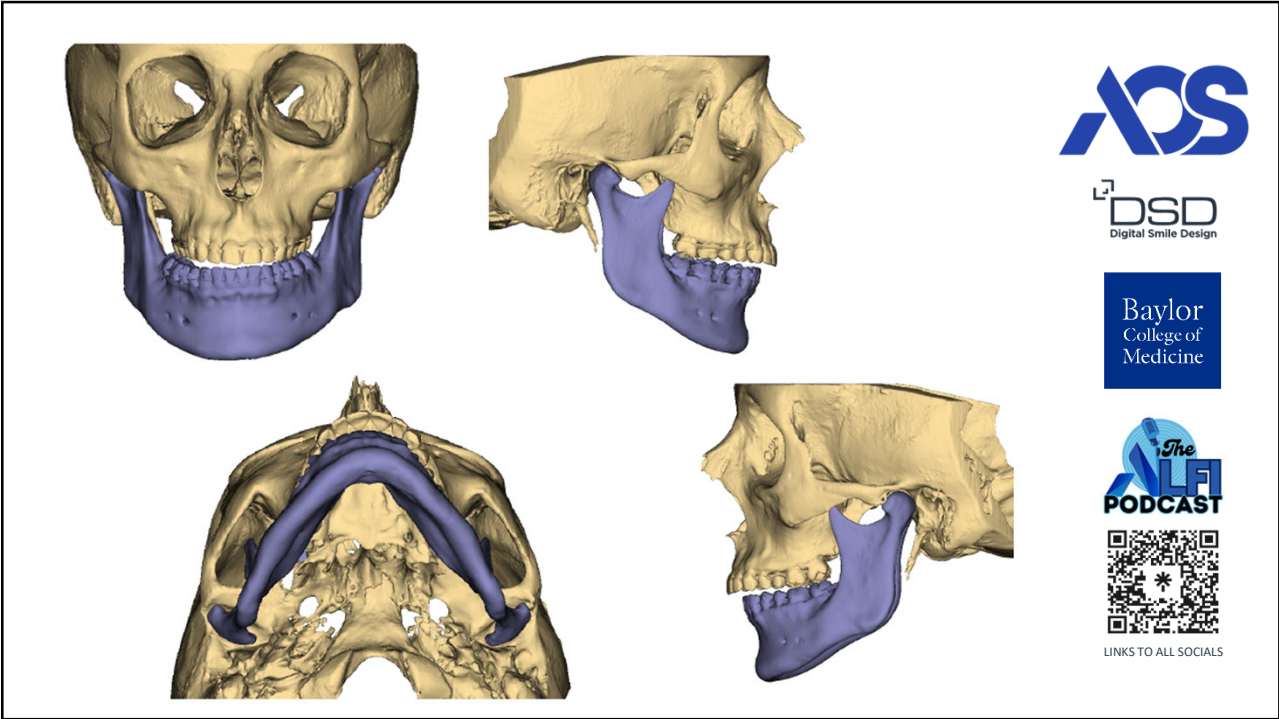
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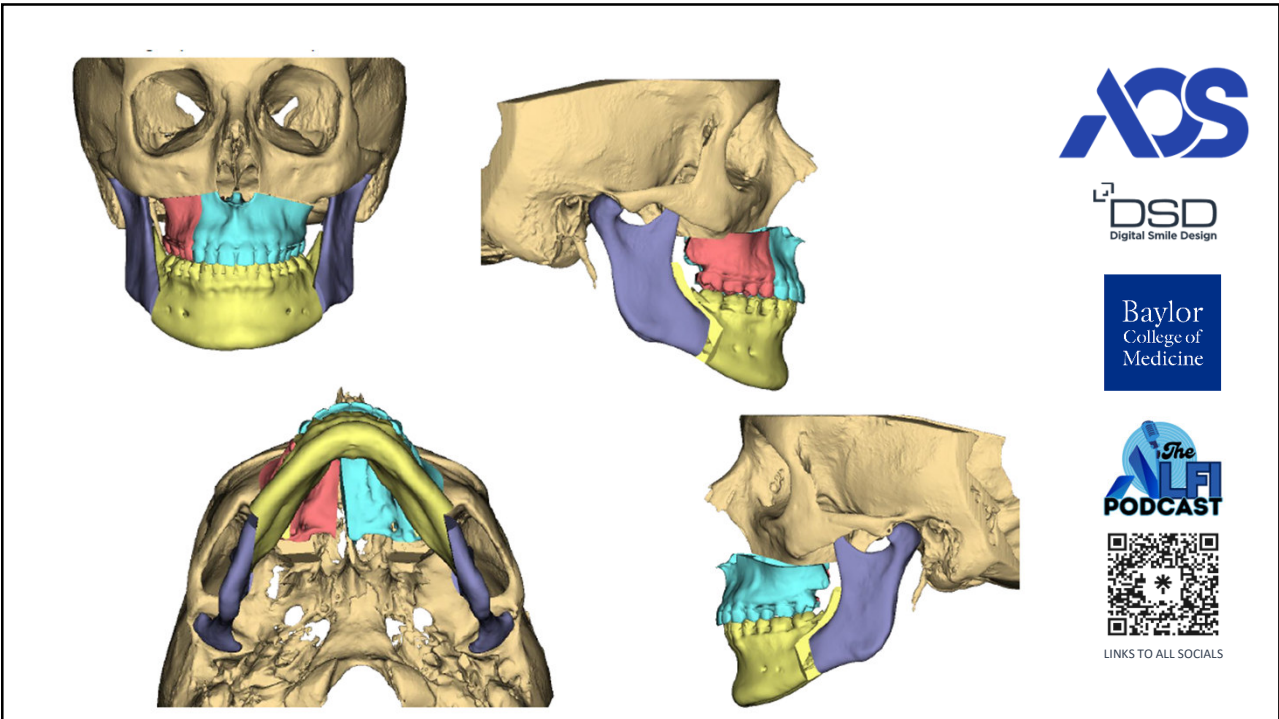
71



72



73



74






### Surgical Plan: Cephalometric Analyses

The mandible measurements shown below are referenced from the original position of the mandible, at the time the CT was taken.

Point	Left/Right (mm)	Ant/Post (mm)	Up/Down (mm)
A	1.1 R	6.7 Ant	0.1 Down
ANS	1.1 R	6.6 Ant	0.0 Up
Maxilla Incisor Midline	1.5 R	7.0 Ant	0.0 N/A
Maxilla Canine L	1.2 R	7.5 Ant	0.4 Down
Maxilla Canine R	1.2 R	6.4 Ant	0.1 Up
Maxilla 1st Molar L	0.5 R	7.8 Ant	0.9 Down
Maxilla 1st Molar R	3.7 R	7.8 Ant	1.2 Up
L Lateral Buttress	0.1 R	7.7 Ant	1.0 Down
L Medial Buttress	0.7 R	6.8 Ant	0.3 Down
R Lateral Buttress	0.8 R	9.2 Ant	2.1 Up
R Medial Buttress	0.7 R	6.2 Ant	0.0 Up
B	0.2 R	11.5 Ant	2.9 Up
Pog	0.6 R	12.2 Ant	2.9 Up
Me	0.8 R	12.4 Ant	2.8 Up
Mandible Incisor Midline	0.6 L	10.7 Ant	3.2 Up
Mandible Canine L	0.5 L	10.2 Ant	2.6 Up
Mandible Canine R	0.5 L	11.0 Ant	3.4 Up
Mandible 1st Molar L	0.1 L	9.9 Ant	1.4 Up
Mandible 1st Molar R	0.1 L	11.2 Ant	2.9 Up

Measurement (°)	Pre-Op 3D	Planned 3D	Delta 3D
SNA	76.7	83.3	6.6
SNB	70.7	77.6	6.9
ANB	6.1	5.8	-0.3
Maxillary Occlusal Plane	6.5	6.5	0.0


  

  

  

  

  
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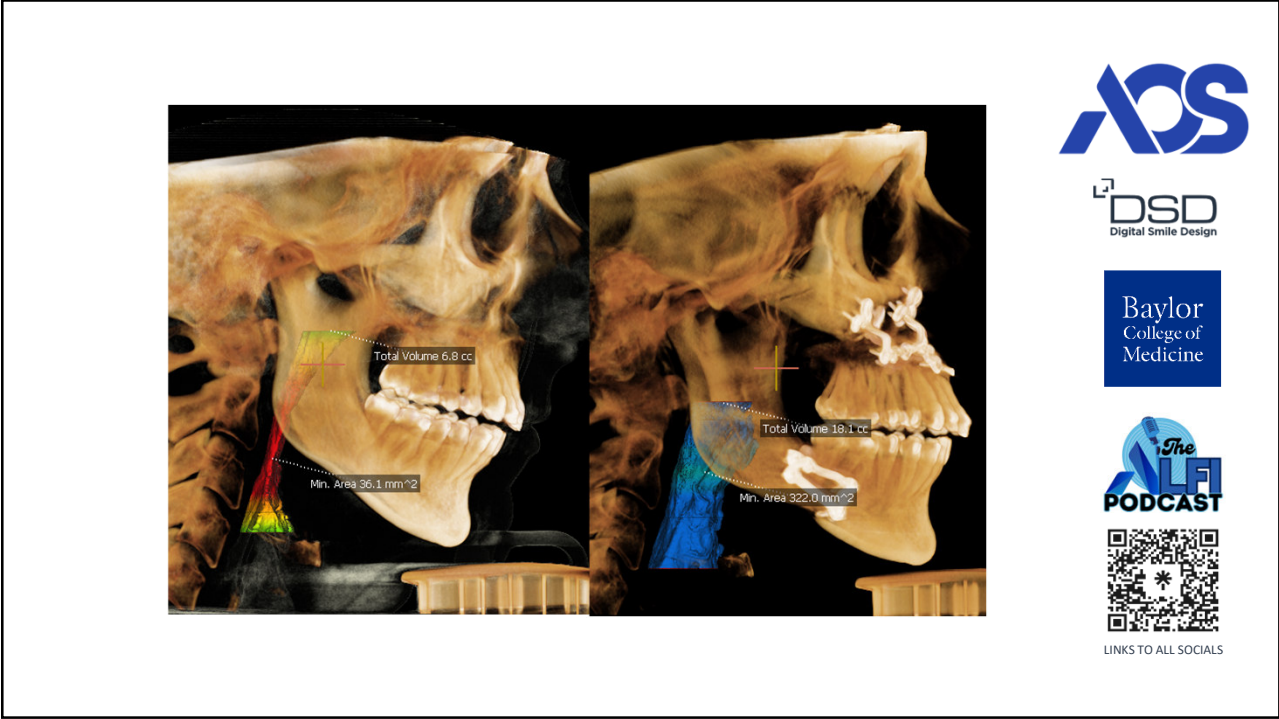
  

  
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78




PRE-OP FIRST SURGERY WITH OTHER PROVIDER



LINKS TO ALL SOCIALS

This slide contains a composite image. On the left is a large portrait of a woman with her hair in a bun, smiling. To her right are three smaller, vertically stacked close-up photographs of her teeth, showing a dental arch. On the far right, there is a vertical stack of logos: 'AOS' in blue, 'DSD Digital Smile Design' in black, 'Baylor College of Medicine' in white on a blue square, and 'The AFA PODCAST' in blue and black. Below these logos is a QR code and the text 'LINKS TO ALL SOCIALS'.

79



LINKS TO ALL SOCIALS

This slide contains a composite image. On the left is a large portrait of the same woman from the previous slide, smiling. To her right is a large profile photograph of her face, facing right. On the far right, there is a vertical stack of logos: 'AOS' in blue, 'DSD Digital Smile Design' in black, 'Baylor College of Medicine' in white on a blue square, and 'The AFA PODCAST' in blue and black. Below these logos is a QR code and the text 'LINKS TO ALL SOCIALS'.

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PRE-OP SECOND SURGERY WITH OTHER PROVIDER



LINKS TO ALL SOCIALS

This slide features a composite image. On the left is a portrait of a woman with her hair in a bun, smiling. To her right are three stacked close-up photographs of her teeth, showing a dental arch with some spacing and wear. On the far right, there is a vertical stack of logos: the AOS logo, the DSD Digital Smile Design logo, the Baylor College of Medicine logo, and the The AFA Podcast logo. Below these logos is a QR code and the text 'LINKS TO ALL SOCIALS'.

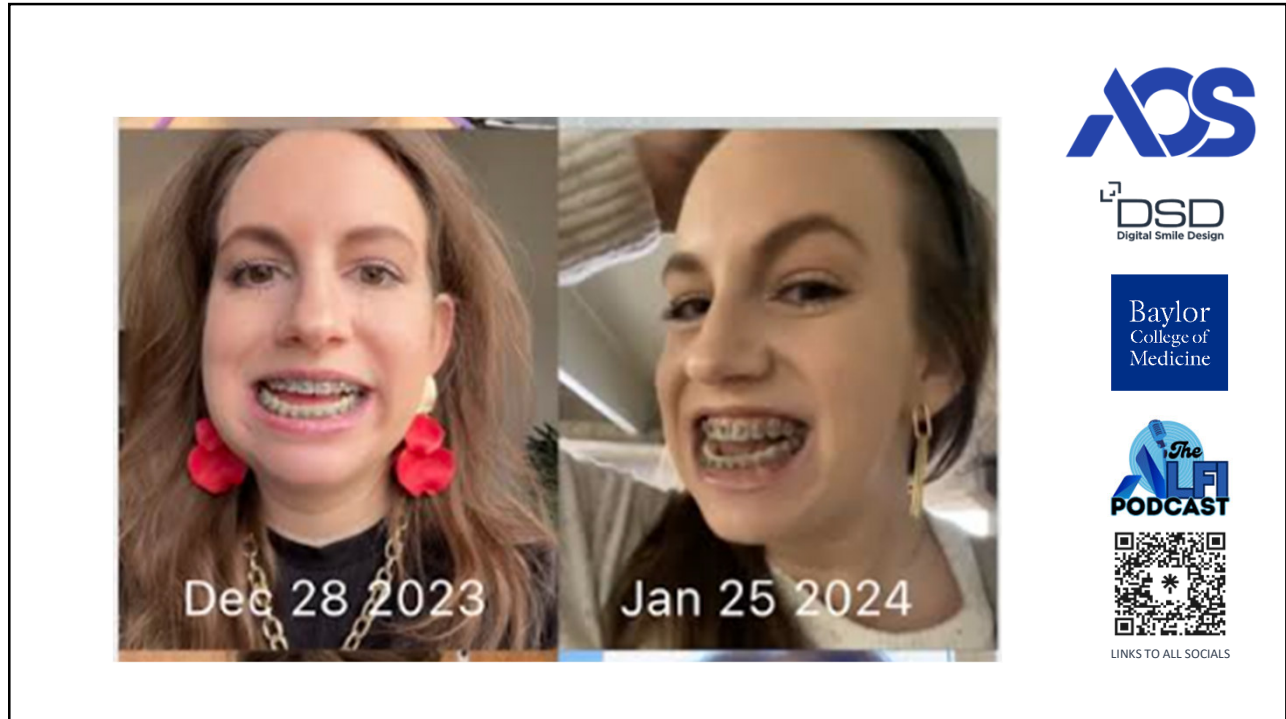
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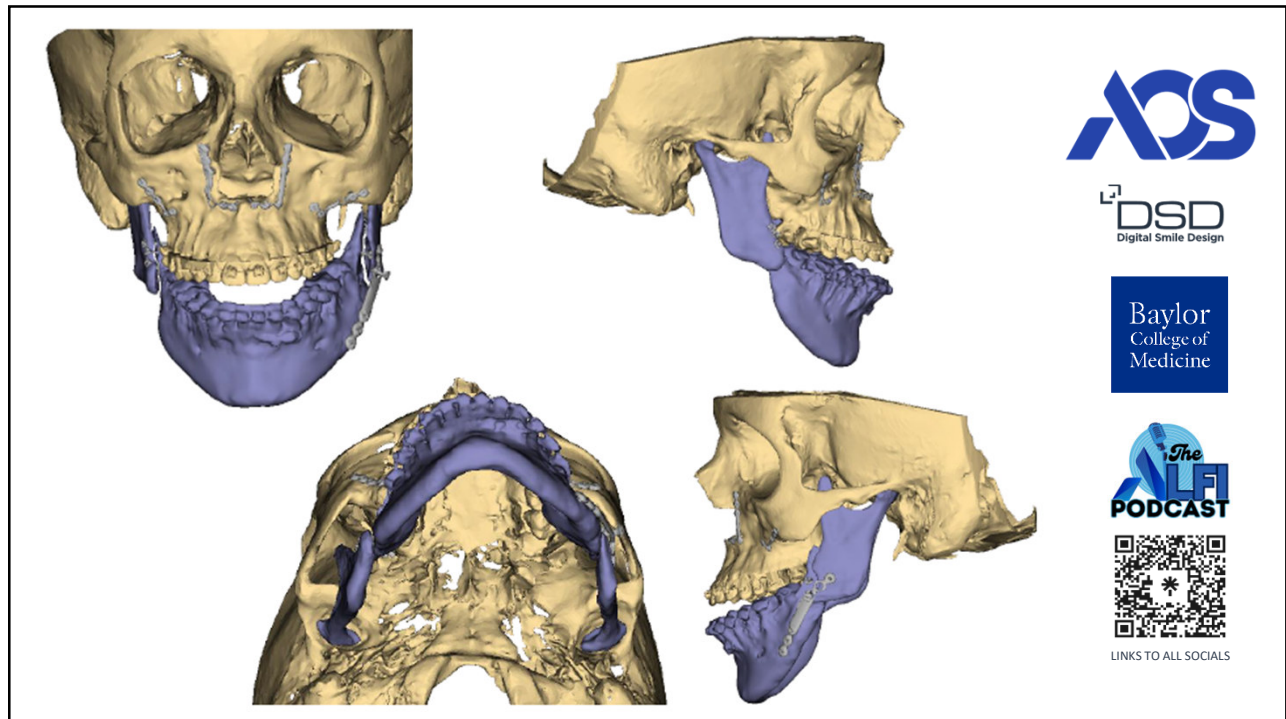
LINKS TO ALL SOCIALS

This slide features two photographs of the same woman from the previous slide. The left photo is a front-facing view of her smiling. The right photo is a profile view of her head and neck. On the far right, there is a vertical stack of logos: the AOS logo, the DSD Digital Smile Design logo, the Baylor College of Medicine logo, and the The AFA Podcast logo. Below these logos is a QR code and the text 'LINKS TO ALL SOCIALS'.

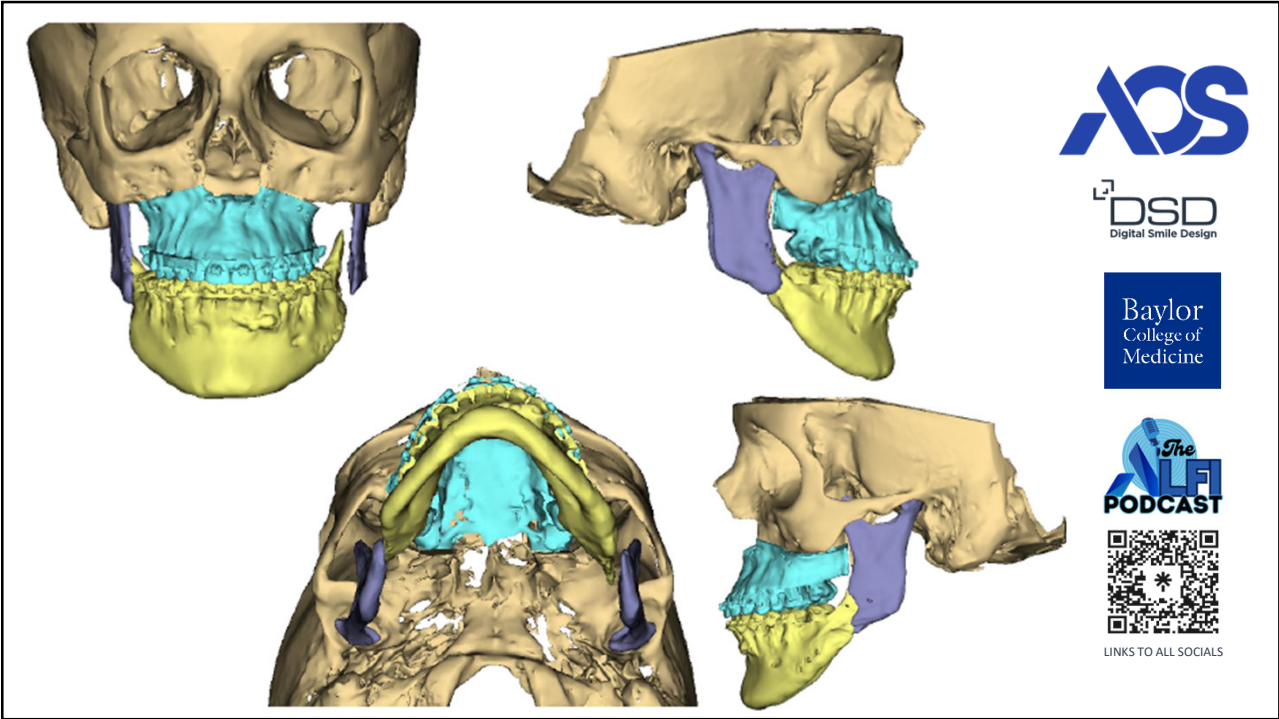
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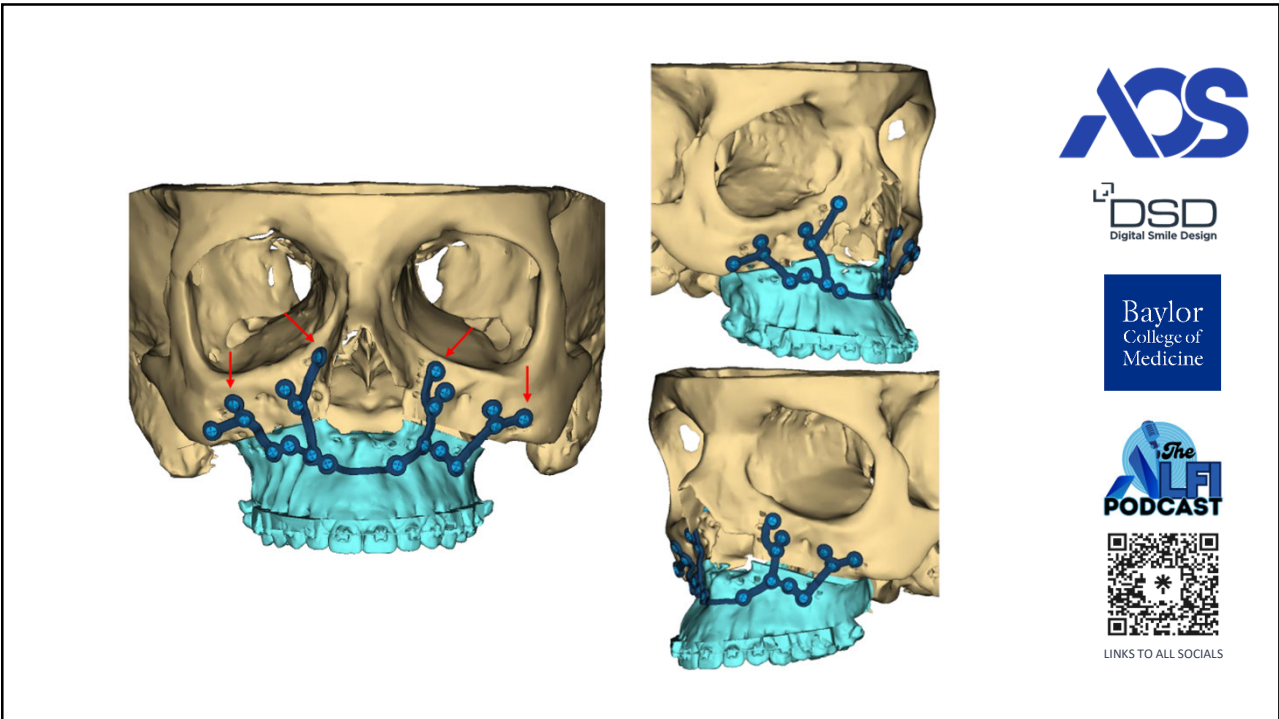
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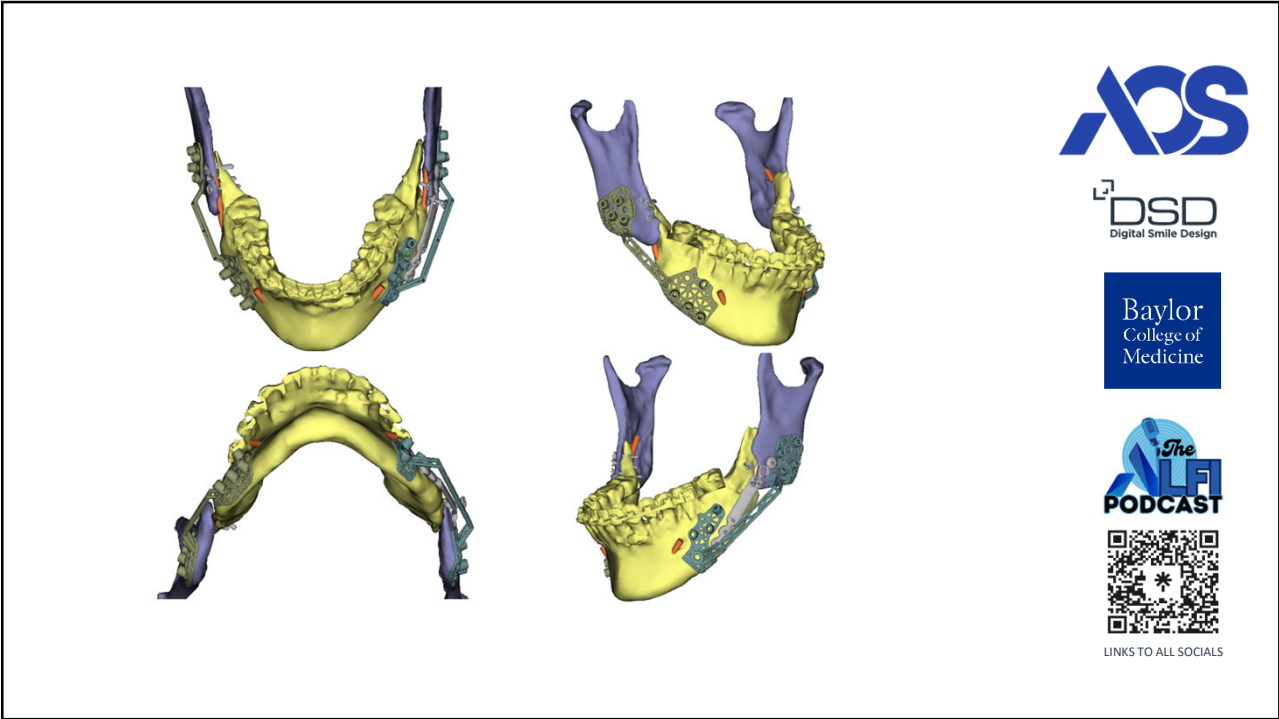
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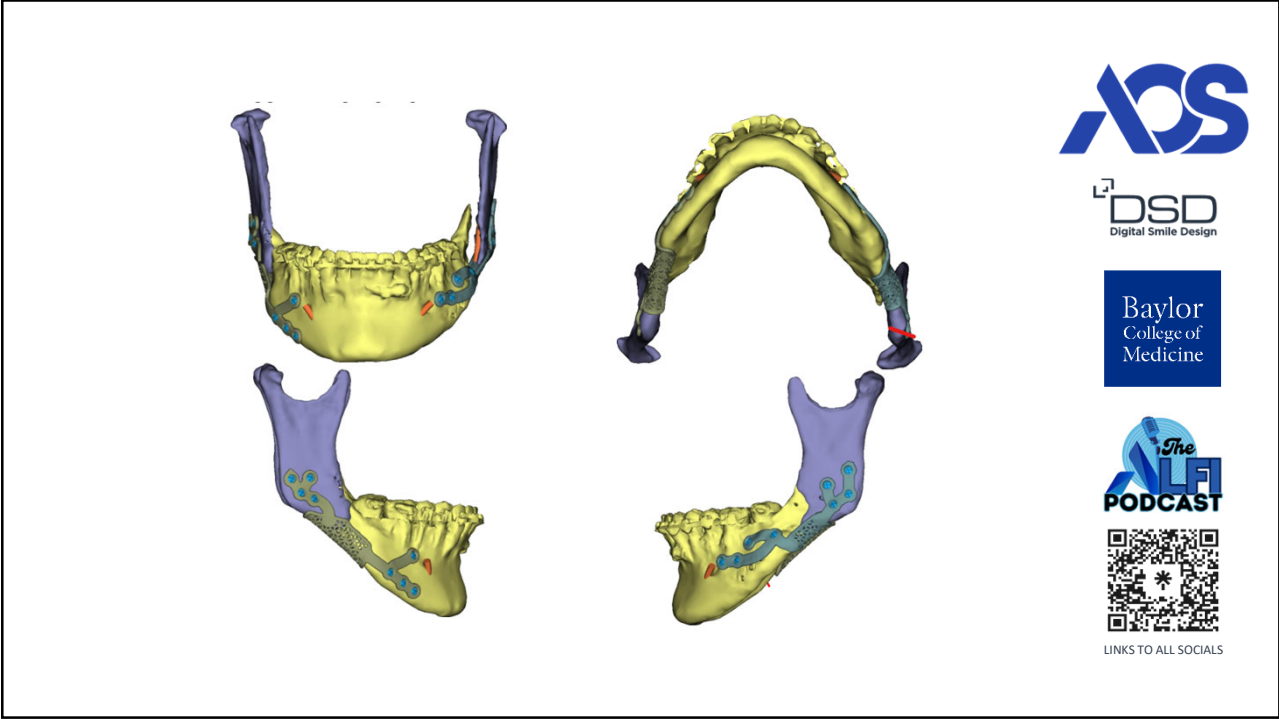
85



86



87



88






### Surgical Plan: Cephalometric Analyses

The mandible measurements shown below are referenced from the original position of the mandible, at the time the CT was taken.

Point	Left/Right (mm)	Ant/Post (mm)	Up/Down (mm)
A	0.1 L	1.3 Ant	0.3 Up
ANS	0.3 L	1.1 Ant	0.3 Up
Maxilla Incisor Midline	0.5 R	2.0 Ant	0.5 Up
Maxilla Canine L	0.7 R	1.6 Ant	0.3 Down
Maxilla Canine R	0.7 R	2.4 Ant	0.7 Up
Maxilla 1st Molar L	1.0 R	1.2 Ant	1.3 Down
Maxilla 1st Molar R	1.1 R	2.5 Ant	0.4 Up
L Lateral Buttress	0.3 R	0.3 Ant	1.5 Down
L Medial Buttress	0.3 L	0.6 Ant	0.3 Down
R Lateral Buttress	0.3 R	1.9 Ant	0.5 Up
R Medial Buttress	0.3 L	1.1 Ant	0.4 Up
B	3.4 R	5.6 Ant	5.9 Up
Pog	3.8 R	7.7 Ant	6.0 Up
Me	4.2 R	8.9 Ant	4.4 Up
Mandible Incisor Midline	2.1 R	1.0 Post	7.8 Up
Mandible Canine L	2.2 R	1.9 Post	6.3 Up
Mandible Canine R	2.2 R	1.0 Post	7.0 Up
Mandible 1st Molar L	2.7 R	3.4 Post	1.4 Up
Mandible 1st Molar R	2.8 R	1.7 Post	2.7 Up

Measurement (°)	Pre-Op 3D	Planned 3D	Delta 3D
SNA	86.0	87.5	1.4
SNB	84.6	87.7	3.1
ANB	2.0	0.6	-1.5
Maxillary Occlusal Plane	6.0	3.9	-2.2

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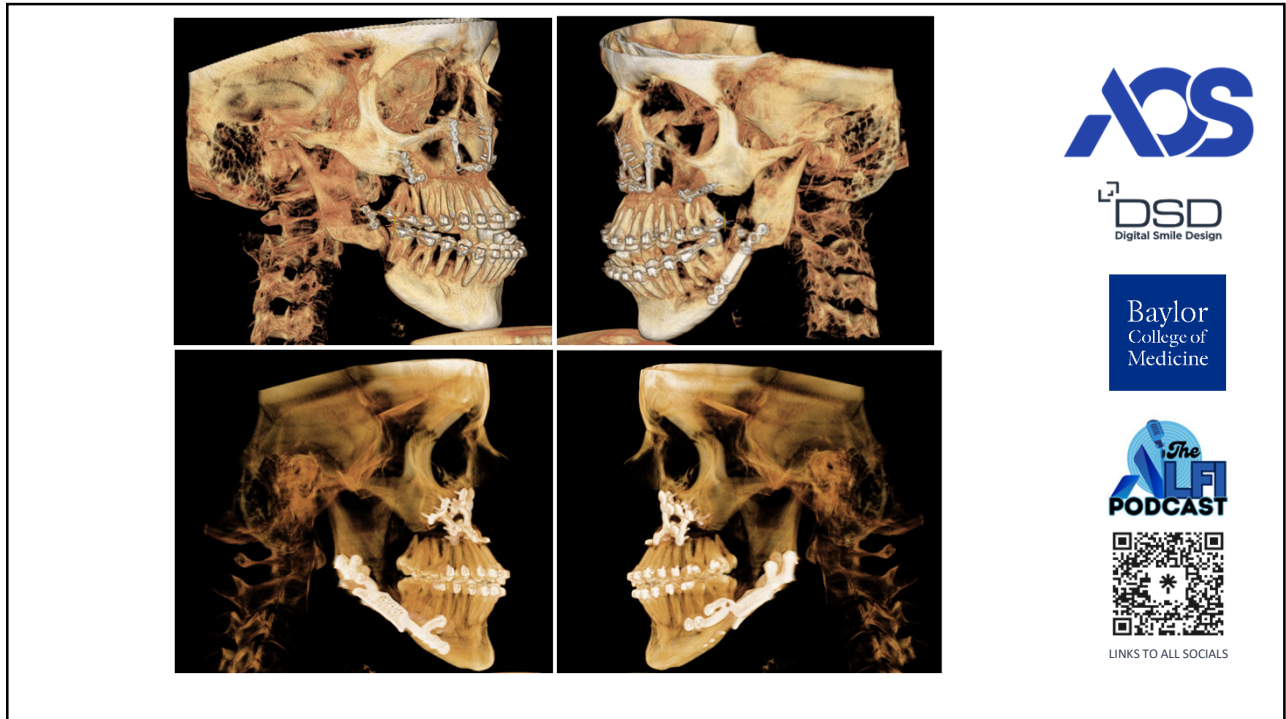






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A screenshot of a social media post from a user named Carmelina. The post features a photo of a smiling woman with long brown hair sitting in a car. To the right of the photo, the text reads "GRADUATED FROM FULL TREATMENT". Below the photo is a comment that says "My 32nd bday present!". At the bottom of the post is a "Message" button. On the right side of the image, there are four logos: "ADS" (American Dental Society), "DSD Digital Smile Design", "Baylor College of Medicine", and "The ADA Podcast". Below these logos is a QR code with the text "LINKS TO ALL SOCIALS" underneath it.

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Two side-by-side photographs of a woman. The left photo is a frontal view of her smiling, showing her teeth and dental work. The right photo is a profile view of her head and shoulders, showing her long dark hair with blonde highlights. On the right side of the image, there are four logos: "ADS" (American Dental Society), "DSD Digital Smile Design", "Baylor College of Medicine", and "The ADA Podcast". Below these logos is a QR code with the text "LINKS TO ALL SOCIALS" underneath it.

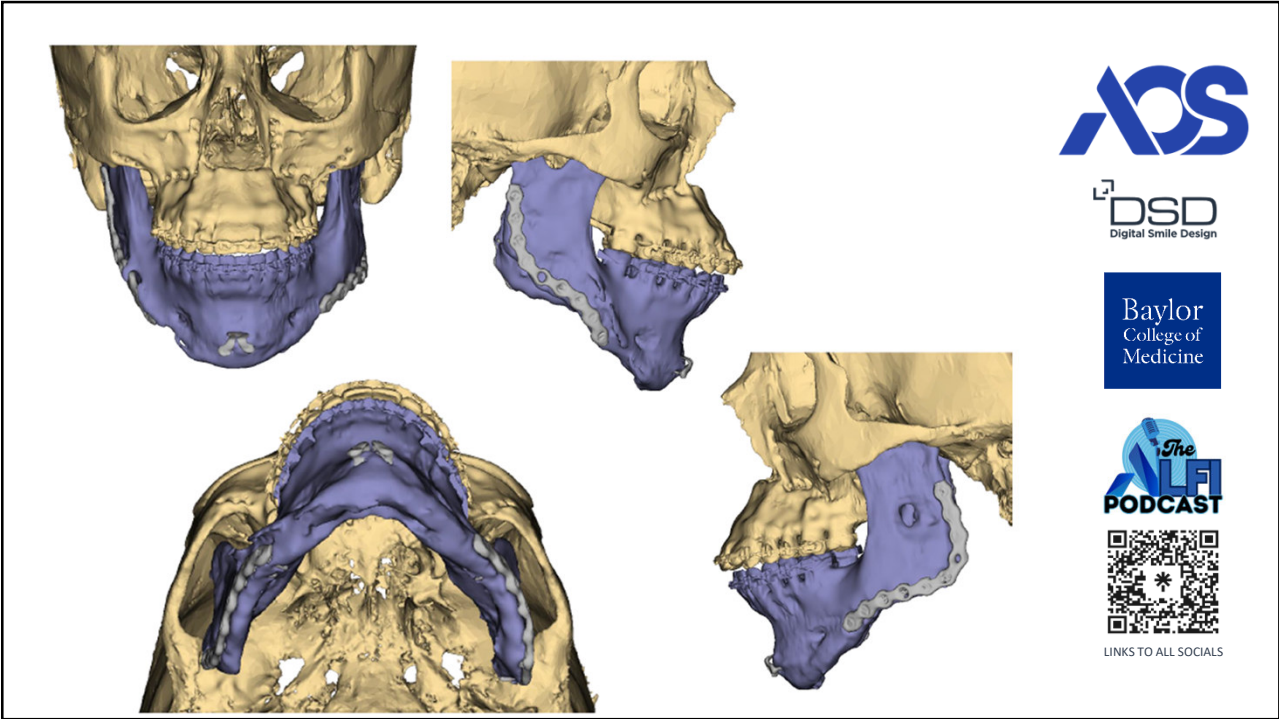
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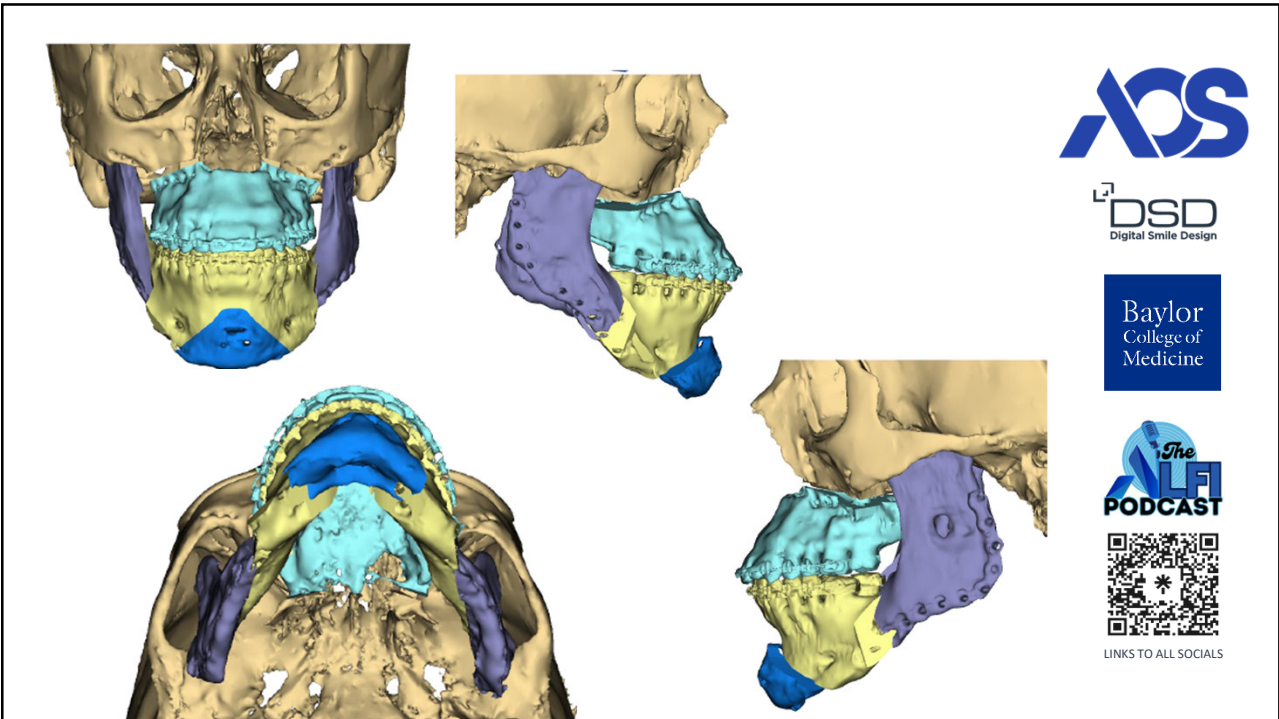
97



98



99



100

Point	Left/Right (mm)	Ant/Post (mm)	Up/Down (mm)
A	0.2 L	1.6 Ant	1.0 Down
ANS	0.3 L	0.9 Ant	1.3 Down
Maxilla Incisor Midline	0.0 R	2.9 Ant	0.5 Down
Maxilla Canine L	0.2 L	3.4 Ant	1.1 Down
Maxilla Canine R	0.2 L	2.6 Ant	1.1 Down
Maxilla 1st Molar L	0.7 L	3.4 Ant	2.5 Down
Maxilla 1st Molar R	0.7 L	2.1 Ant	2.3 Down
L Lateral Buttress	1.0 L	2.0 Ant	3.1 Down
L Medial Buttress	0.5 L	1.0 Ant	1.9 Down
R Lateral Buttress	0.9 L	0.4 Ant	2.8 Down
R Medial Buttress	0.5 L	0.4 Ant	1.8 Down
B	0.8 L	6.7 Ant	0.3 Down
Pog	0.5 L	16.4 Ant	0.5 Up
Me	0.3 L	18.1 Ant	1.7 Down
Mandible Incisor Midline	1.3 L	3.2 Ant	1.8 Up
Mandible Canine L	1.2 L	2.7 Ant	0.4 Up
Mandible Canine R	1.2 L	3.3 Ant	0.9 Up
Mandible 1st Molar L	1.0 L	2.2 Ant	1.9 Down
Mandible 1st Molar R	0.9 L	2.9 Ant	2.7 Down

Measurement (°)	Pre-Op 3D	Planned 3D	Delta 3D
SNA	80.8	82.3	1.5
SNB	73.4	77.4	4.0
ANB	7.6	5.0	-2.5
Maxillary Occlusal Plane	17.4	7.5	-9.9

DSD  
Digital Smile Design

Baylor  
College of  
Medicine

The  
ALF  
PODCAST

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DSD  
Digital Smile Design

Baylor  
College of  
Medicine

The  
ALF  
PODCAST

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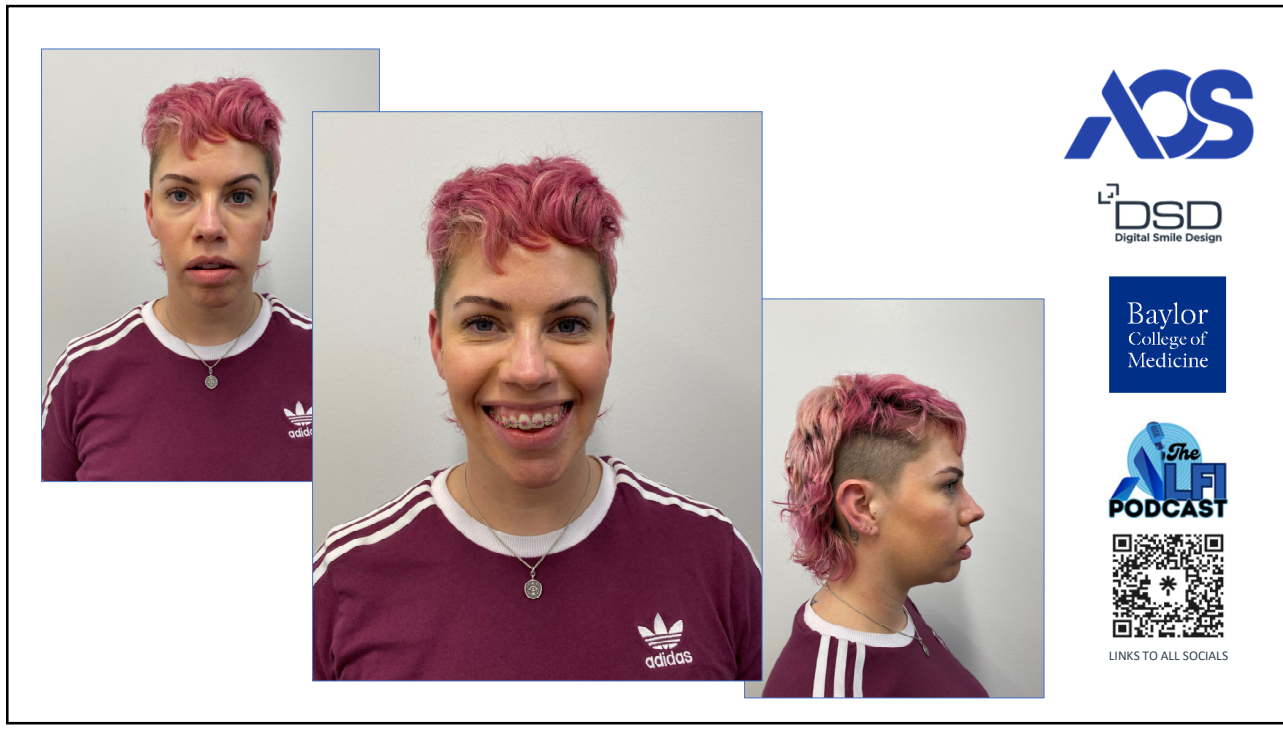
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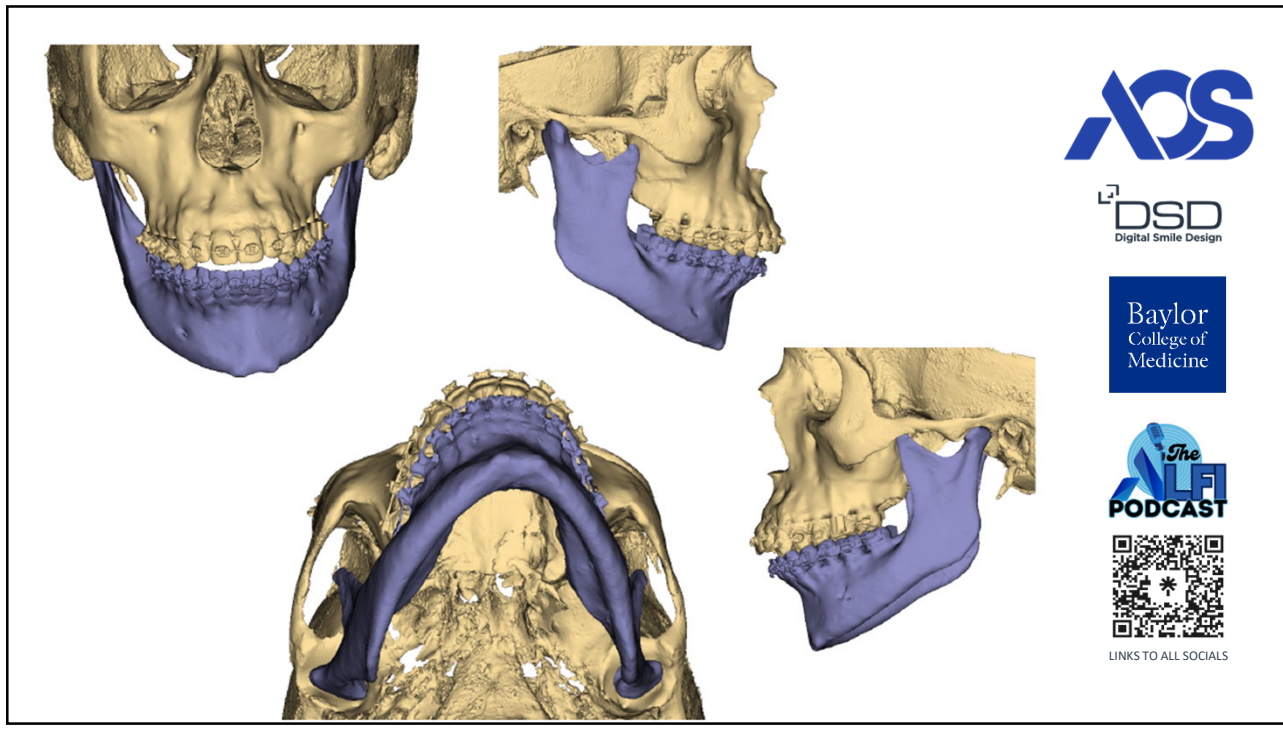
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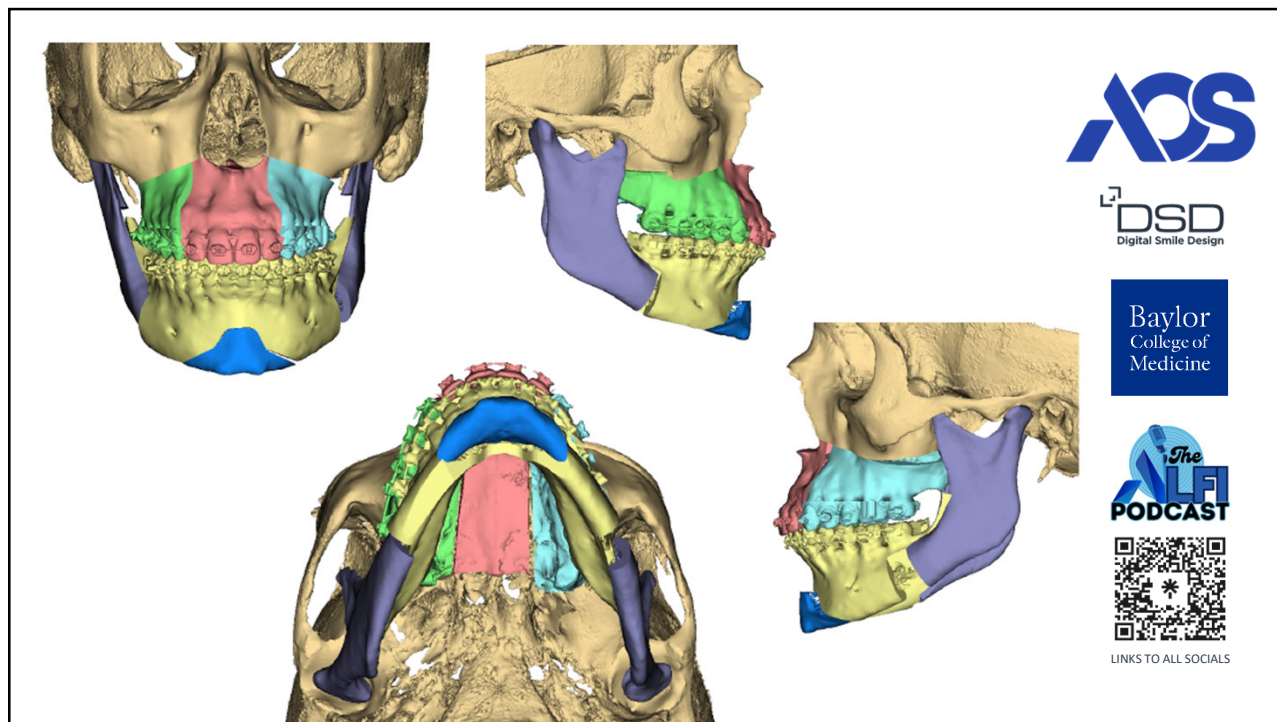
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Point	Left/Right (mm)	Ant/Post (mm)	Up/Down (mm)
A	1.4 R	0.4 Ant	1.2 Up
ANS	1.1 R	0.0 Ant	1.4 Up
Maxilla Incisor Midline	3.0 R	2.0 Ant	1.5 Up
Maxilla Canine L	2.5 R	1.7 Ant	3.4 Up
Maxilla Canine R	3.8 R	0.7 Ant	5.0 Up
Maxilla 1st Molar L	1.1 R	1.5 Ant	0.0 Down
Maxilla 1st Molar R	3.0 R	0.1 Ant	3.5 Up
L Lateral Buttress	0.6 L	1.5 Post	0.9 Down
L Medial Buttress	0.6 R	0.0 Ant	0.2 Up
R Lateral Buttress	1.5 R	2.5 Post	3.6 Up
R Medial Buttress	0.6 R	0.6 Post	1.4 Up
B	5.2 R	7.0 Ant	3.9 Up
Pog	6.1 R	15.2 Ant	3.4 Up
Me	6.5 R	16.1 Ant	2.4 Up
Mandible Incisor Midline	5.0 R	4.3 Ant	5.7 Up
Mandible Canine L	4.3 R	4.8 Ant	3.8 Up
Mandible Canine R	4.4 R	2.9 Ant	5.8 Up
Mandible 1st Molar L	2.5 R	5.1 Ant	0.7 Down
Mandible 1st Molar R	2.6 R	1.7 Ant	2.7 Up

Measurement (°)	Pre-Op 3D	Planned 3D	Delta 3D
SNA	85.0	85.5	0.5
SNB	76.9	81.0	4.1
ANB	8.6	4.6	-3.9
Maxillary Occlusal Plane	8.7	7.7	-1.0

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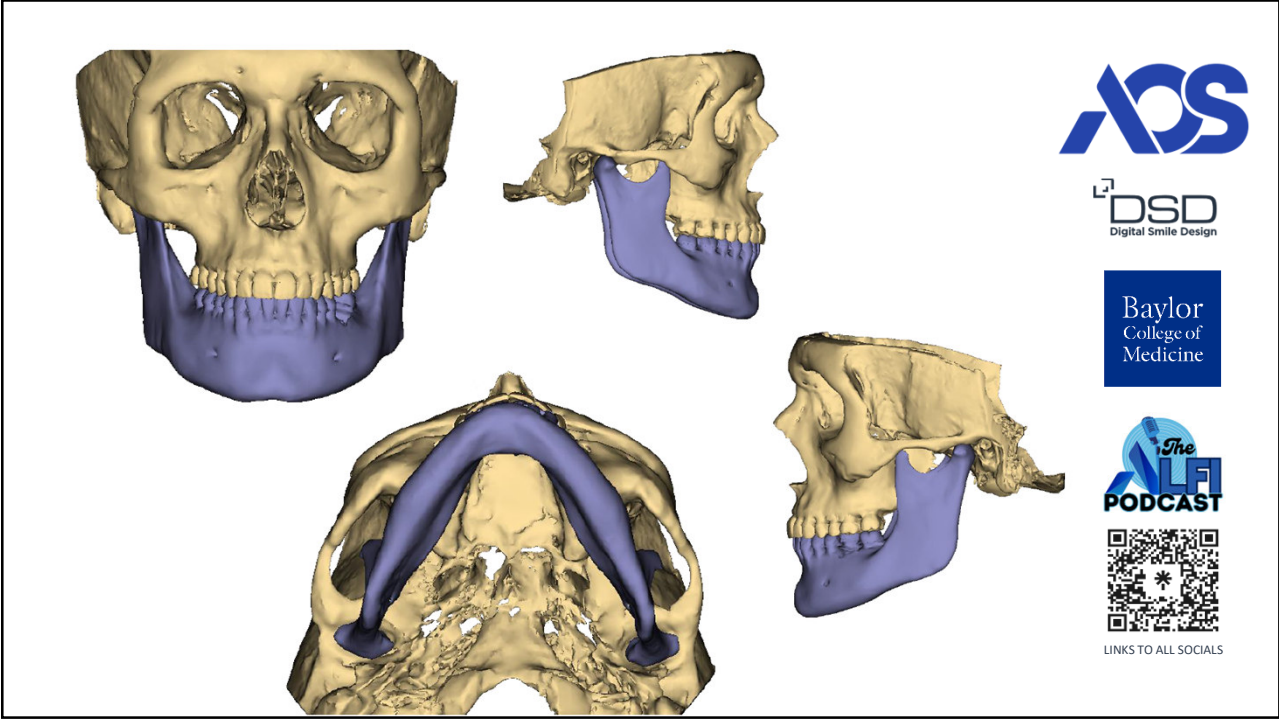
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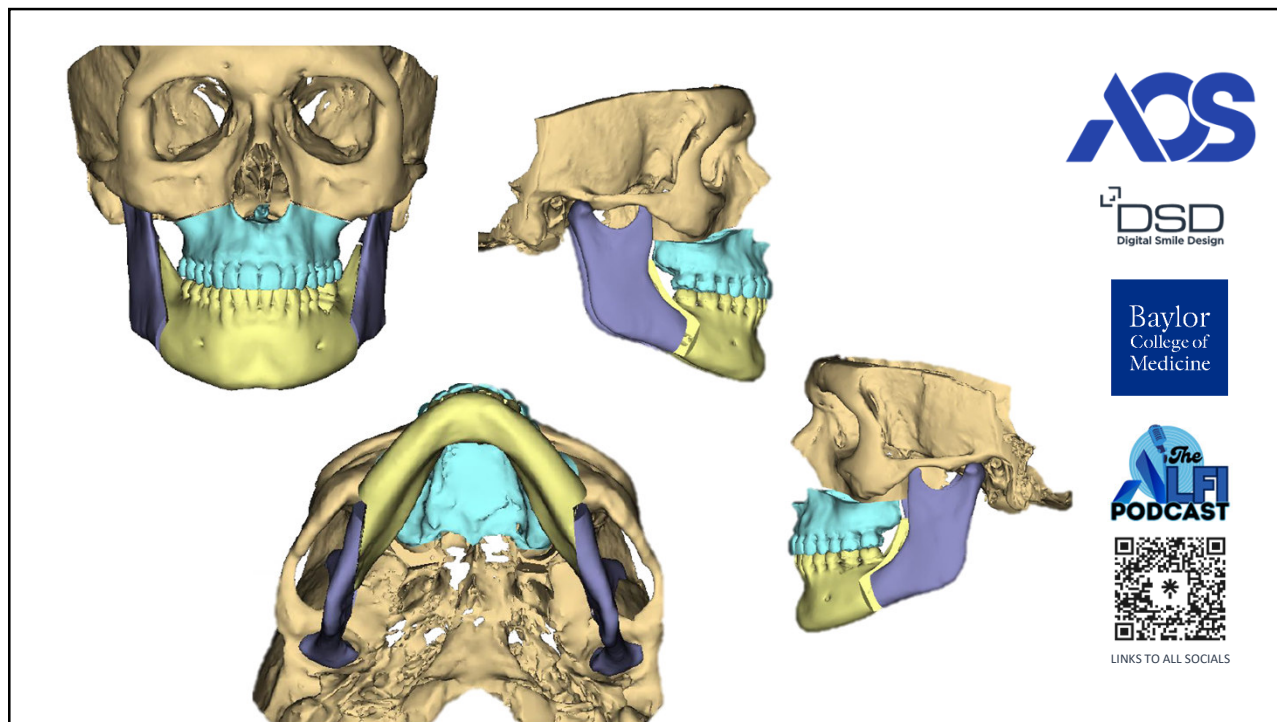
110



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### Surgical Plan: Cephalometric Analyses

The mandible measurements shown below are referenced from the original position of the mandible, at the time the CT was taken.

Point	Left/Right (mm)	Ant/Post (mm)	Up/Down (mm)
A	0.3 R	7.7 Ant	1.0 Down
ANS	0.3 R	7.7 Ant	1.0 Down
Maxilla Incisor Midline	0.1 R	7.5 Ant	1.0 Down
Maxilla Canine L	0.1 R	7.5 Ant	0.8 Down
Maxilla Canine R	0.1 R	7.5 Ant	1.1 Down
Maxilla 1st Molar L	0.1 R	7.5 Ant	0.5 Down
Maxilla 1st Molar R	0.1 R	7.5 Ant	1.0 Down
L Lateral Buttress	0.3 R	7.7 Ant	0.4 Down
L Medial Buttress	0.4 R	7.8 Ant	0.8 Down
R Lateral Buttress	0.3 R	7.7 Ant	1.1 Down
R Medial Buttress	0.4 R	7.8 Ant	1.0 Down
B	0.3 R	7.4 Ant	0.9 Down
Pog	0.2 R	7.2 Ant	1.0 Down
Me	0.1 R	7.2 Ant	0.9 Down
Mandible Incisor Midline	0.5 R	7.5 Ant	1.0 Down
Mandible Canine L	0.5 R	7.5 Ant	0.8 Down
Mandible Canine R	0.5 R	7.5 Ant	1.0 Down
Mandible 1st Molar L	0.0 NA	0.0 NA	0.0 NA
Mandible 1st Molar R	0.5 R	7.5 Ant	1.0 Down






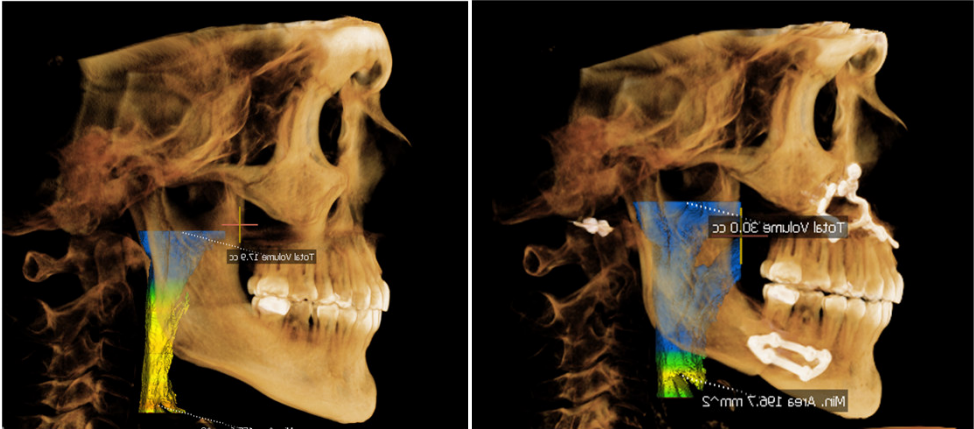
  

Measurement (°)	Pre-Op 3D	Planned 3D	Delta 3D
SNA	82.7	90.6	8.0
SNB	80.7	85.4	4.7
ANB	2.2	5.4	3.1
Maxillary Occlusal Plane	4.8	5.2	0.4



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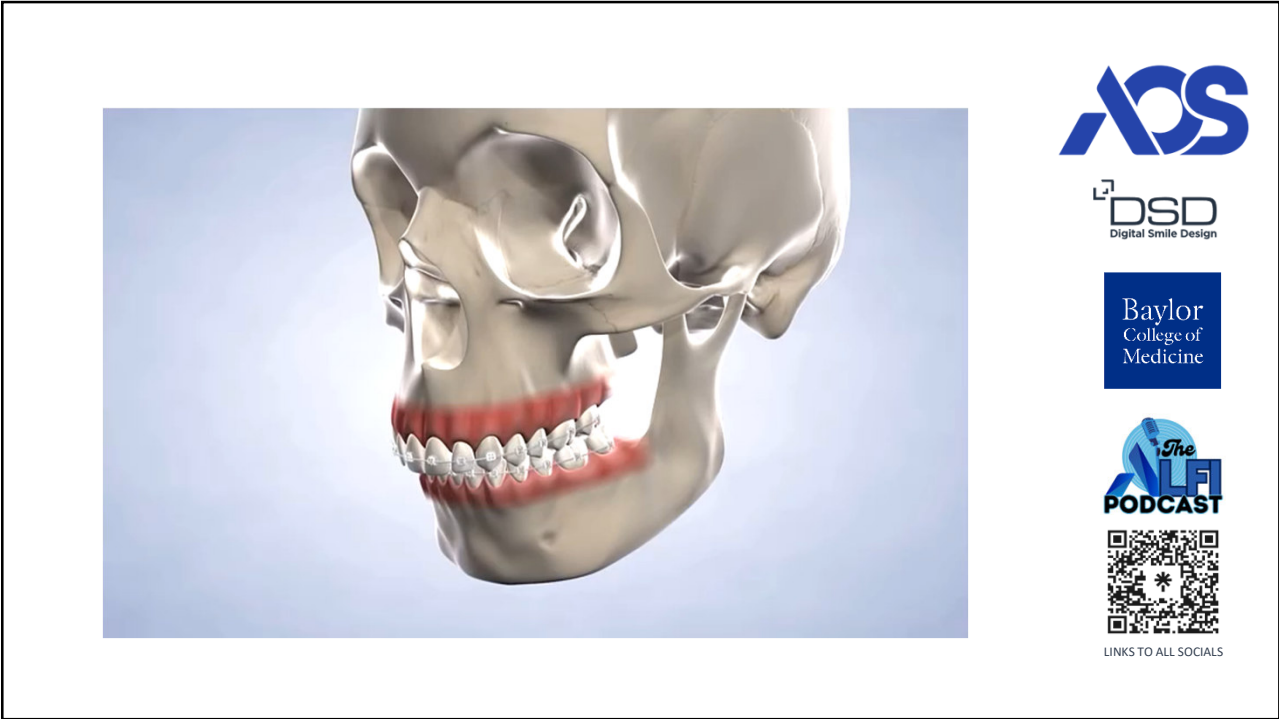
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117



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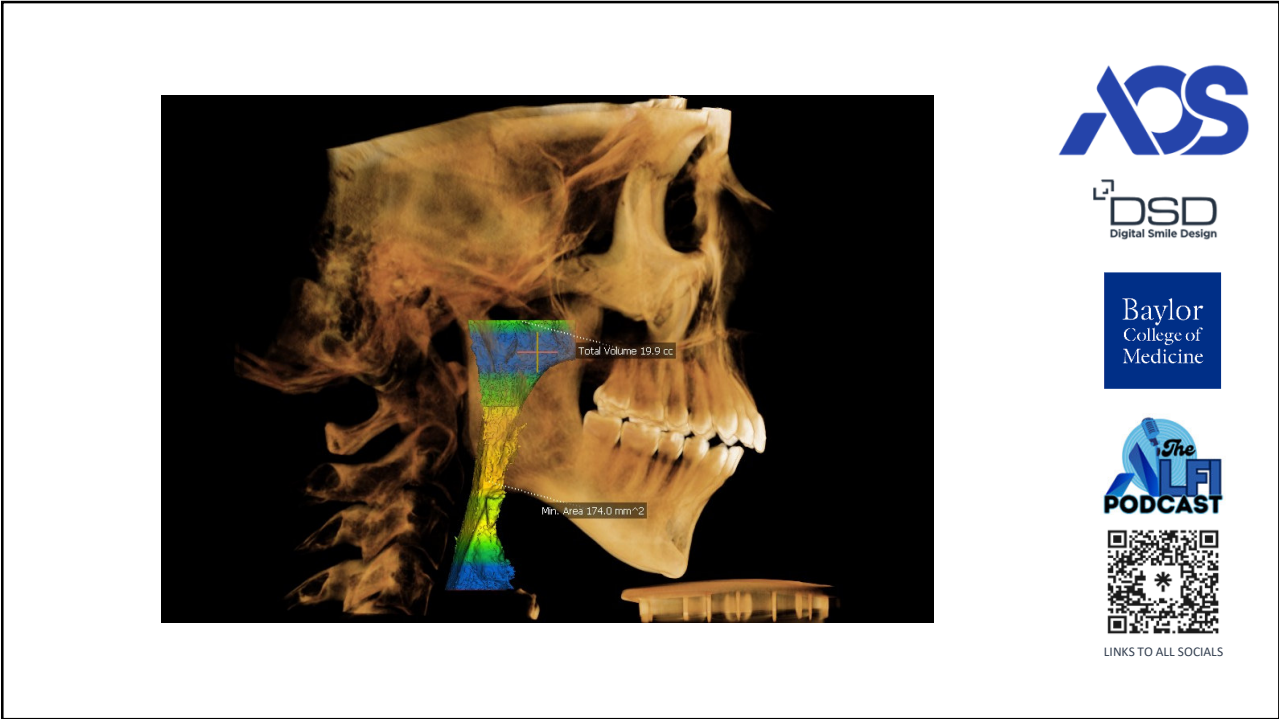
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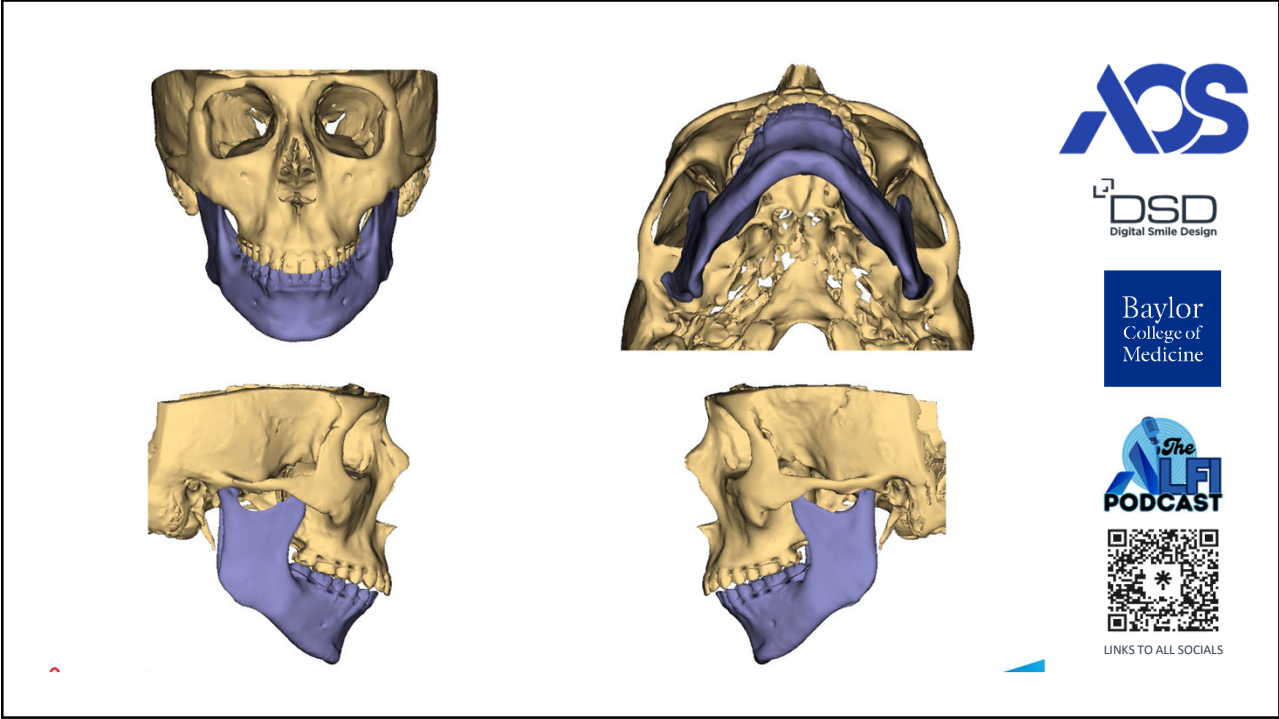
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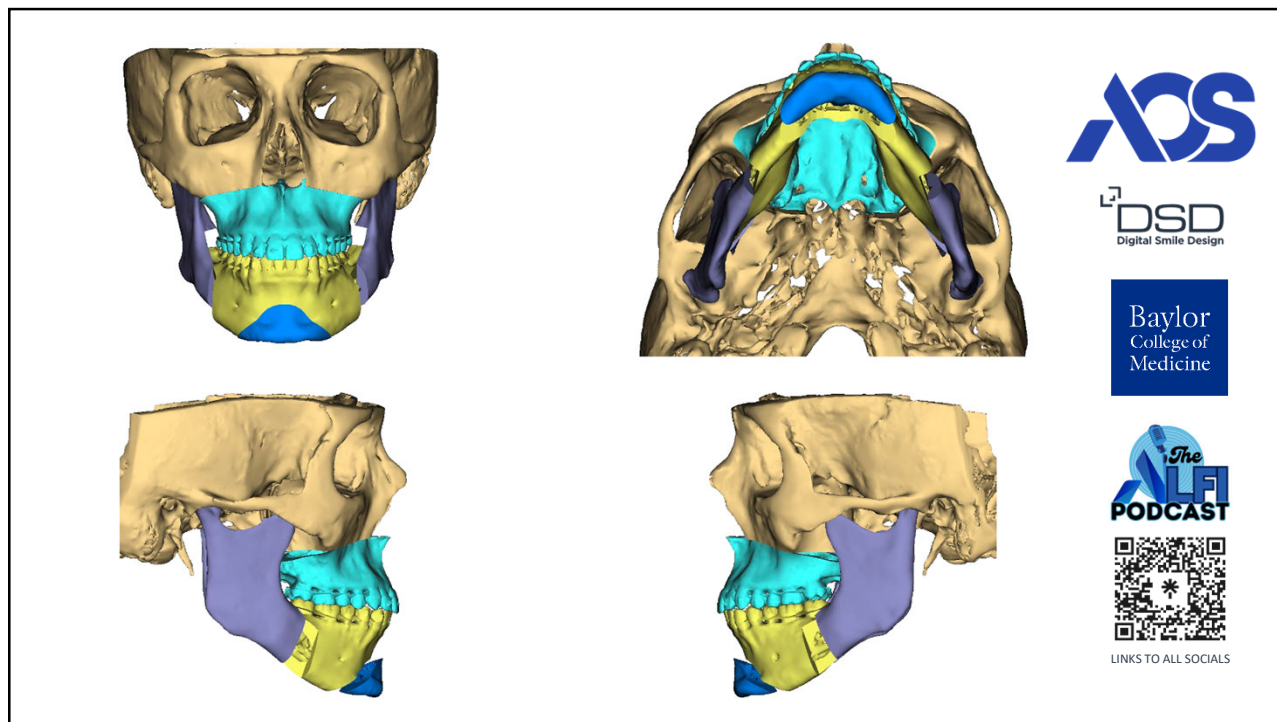
120



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### Surgical Plan: Cephalometric Analyses

The mandible measurements shown below are referenced from the original position of the mandible, at the time the CT was taken.

Point	Left/Right (mm)	Ant/Post (mm)	Up/Down (mm)
A	0.8 R	1.2 Ant	4.6 Up
ANS	1.1 R	1.0 Post	5.6 Up
Maxilla Incisor Midline	0.5 R	6.0 Ant	5.5 Up
Maxilla Canine L	0.4 R	5.7 Ant	3.8 Up
Maxilla Canine R	0.4 R	5.3 Ant	3.2 Up
Maxilla 1st Molar L	0.3 R	4.9 Ant	0.2 Down
Maxilla 1st Molar R	0.3 R	4.3 Ant	1.0 Down
L Lateral Buttress	0.8 R	0.1 Ant	0.4 Up
L Medial Buttress	1.0 R	1.6 Post	3.6 Up
R Lateral Buttress	0.8 R	0.5 Post	0.8 Down
R Medial Buttress	1.0 R	1.9 Post	3.2 Up
B	0.8 R	12.8 Ant	3.0 Up
Pog	0.7 R	21.1 Ant	3.0 Up
Me	0.6 R	23.8 Ant	2.0 Up
Mandible Incisor Midline	1.0 R	8.6 Ant	5.4 Up
Mandible Canine L	0.9 R	8.7 Ant	4.3 Up
Mandible Canine R	1.0 R	8.3 Ant	4.3 Up
Mandible 1st Molar L	0.7 R	7.9 Ant	0.2 Down
Mandible 1st Molar R	0.7 R	7.3 Ant	0.0 N/A

Measurement (°)	Pre-Op 3D	Planned 3D	Delta 3D
SNA	80.0	81.2	+1.2
SNB	71.1	78.5	+7.4
ANB	9.0	2.8	-6.2
Maxillary Occlusal Plane	19.3	7.0	-12.2






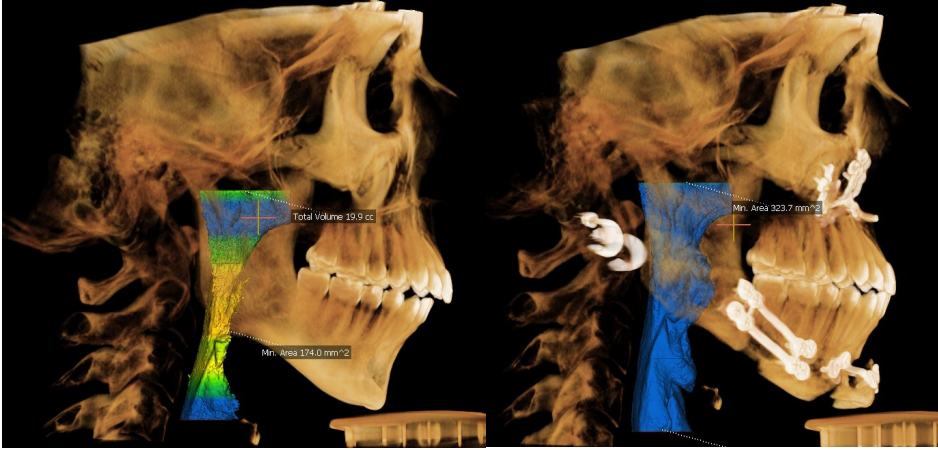
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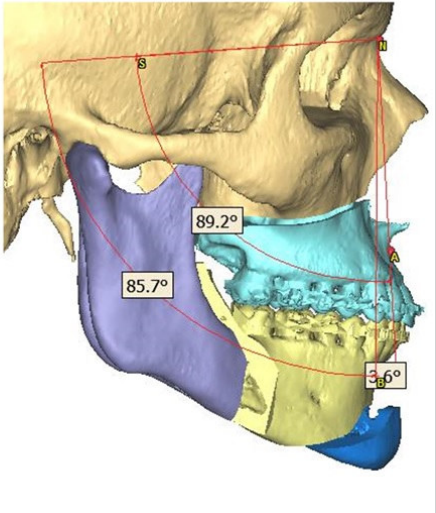
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Point	Left/Right (mm)	Ant/Post (mm)	Up/Down (mm)
A	0.0 L	1.9 Ant	1.3 Down
ANS	0.2 L	1.4 Ant	1.0 Down
Maxilla Incisor Midline	0.5 R	3.0 Ant	1.0 Down
Maxilla Canine L	0.5 R	3.0 Ant	2.0 Down
Maxilla Canine R	0.5 R	2.9 Ant	1.1 Down
Maxilla 1st Molar L	0.4 R	2.8 Ant	3.3 Down
Maxilla 1st Molar R	0.4 R	2.7 Ant	2.1 Down
L Lateral Buttress	0.2 L	1.5 Ant	3.6 Down
L Medial Buttress	0.4 L	1.1 Ant	1.9 Down
R Lateral Buttress	0.2 L	1.5 Ant	1.8 Down
R Medial Buttress	0.4 L	1.1 Ant	1.3 Down
Pog	2.1 R	12.6 Ant	0.4 Down
Me	2.5 R	22.7 Ant	1.3 Down
Mandible Incisor Midline	2.4 R	23.3 Ant	1.9 Down
Mandible Canine L	2.0 R	11.0 Ant	0.4 Up
Mandible Canine R	1.7 R	11.3 Ant	0.5 Down
Mandible 1st Molar L	1.7 R	10.3 Ant	0.1 Up
Mandible 1st Molar R	0.9 R	11.4 Ant	3.1 Down
Mandible 1st Molar R	0.9 R	9.8 Ant	1.9 Down


Measurement (°)	Pre-Op 3D	Planned 3D	Delta 3D
SNA	87.4	89.2	1.7
SNB	78.2	85.7	7.5
ANB	9.2	3.6	-5.6
Maxillary Occlusal Plane	10.4	7.5	-3








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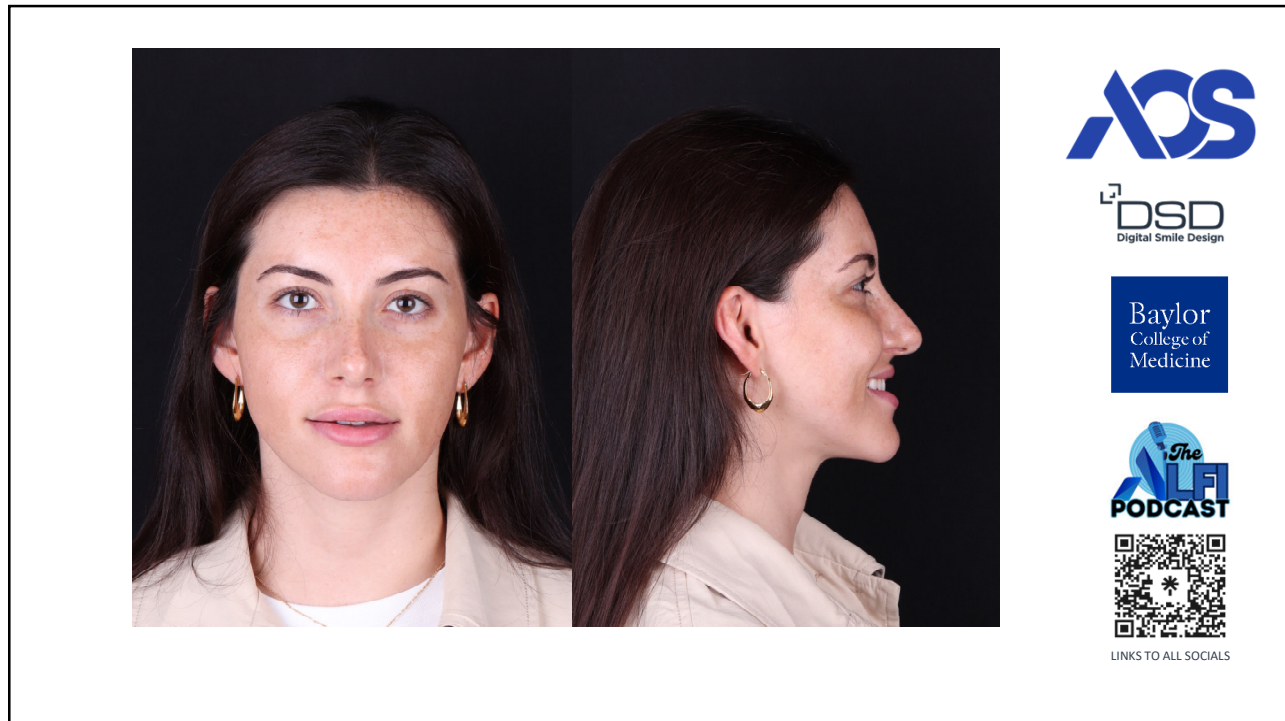
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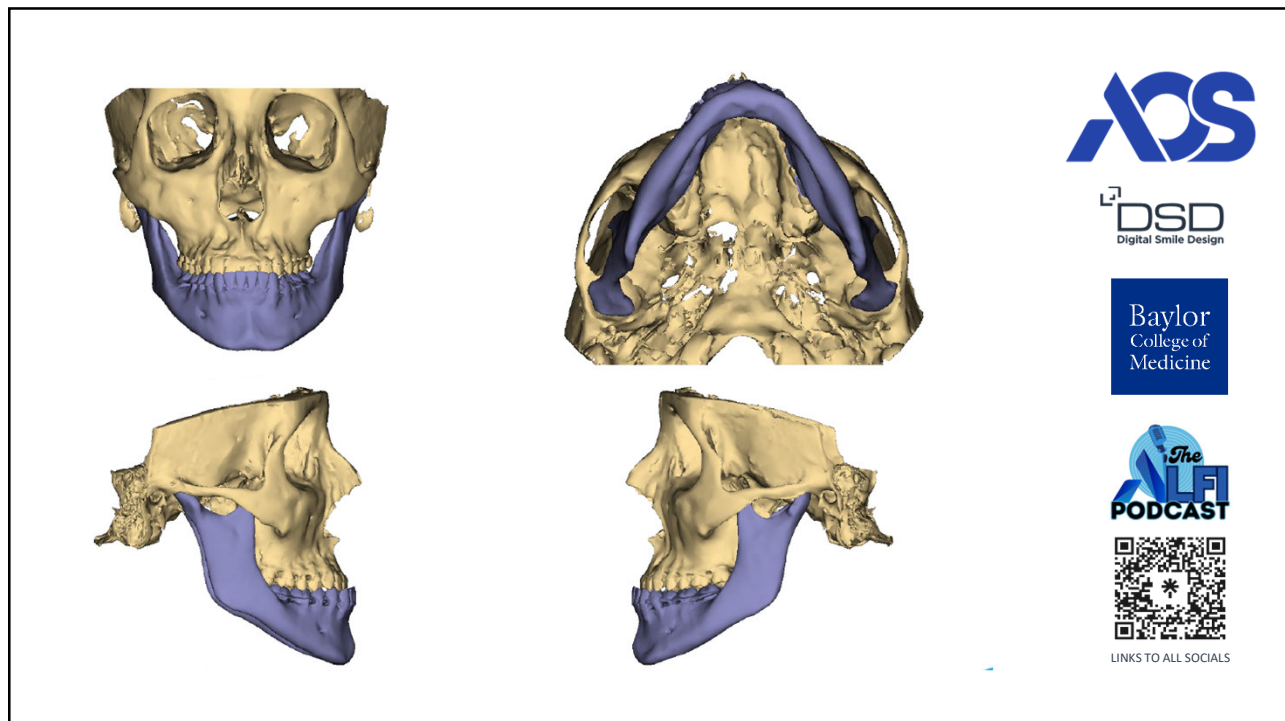






LINKS TO ALL SOCIALS

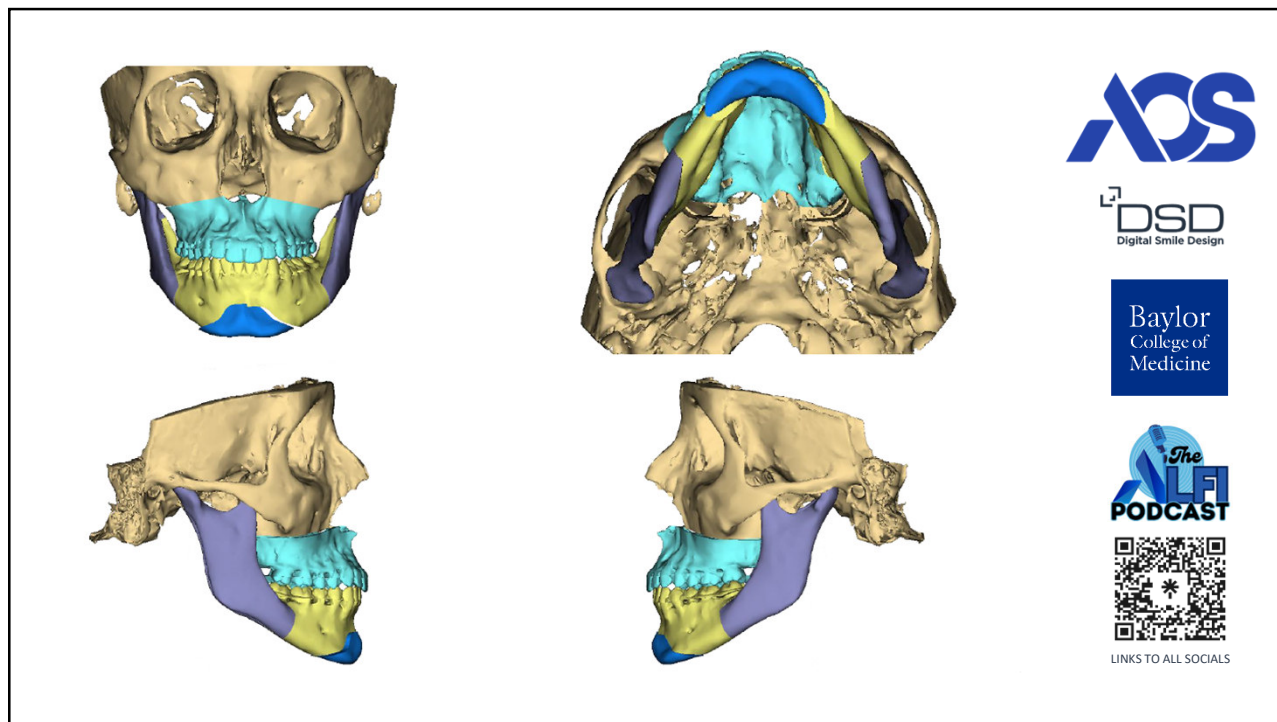
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### Surgical Plan: Cephalometric Analyses

The mandible measurements shown below are referenced from the original position of the mandible, at the time the CT was taken.

Point	Left/Right (mm)	Ant/Post (mm)	Up/Down (mm)
A	0.2 R	5.3 Ant	1.2 Up
ANS	0.3 R	5.1 Ant	1.3 Up
Maxilla Incisor Midline	0.0 N/A	6.5 Ant	1.5 Up
Maxilla Canine L	0.1 R	6.2 Ant	1.3 Up
Maxilla Canine R	0.1 R	6.5 Ant	0.9 Up
Maxilla 1st Molar L	0.3 R	6.1 Ant	0.4 Up
Maxilla 1st Molar R	0.3 R	6.6 Ant	0.1 Down
L Lateral Buttress	0.5 R	4.9 Ant	0.3 Up
L Medial Buttress	0.4 R	4.8 Ant	1.0 Up
R Lateral Buttress	0.5 R	5.5 Ant	0.3 Down
R Medial Buttress	0.4 R	5.0 Ant	0.8 Up
B	1.7 R	0.7 Post	0.2 Up
Pog	4.7 R	0.2 Ant	1.7 Up
Me	4.4 R	0.7 Ant	1.2 Up
Mandible Incisor Midline	2.1 R	0.7 Post	0.2 Up
Mandible Canine L	1.9 R	0.1 Post	0.4 Up
Mandible Canine R	1.9 R	1.3 Post	0.0 N/A
Mandible 1st Molar L	1.0 R	0.3 Ant	0.6 Up
Mandible 1st Molar R	1.0 R	1.7 Post	0.0 N/A

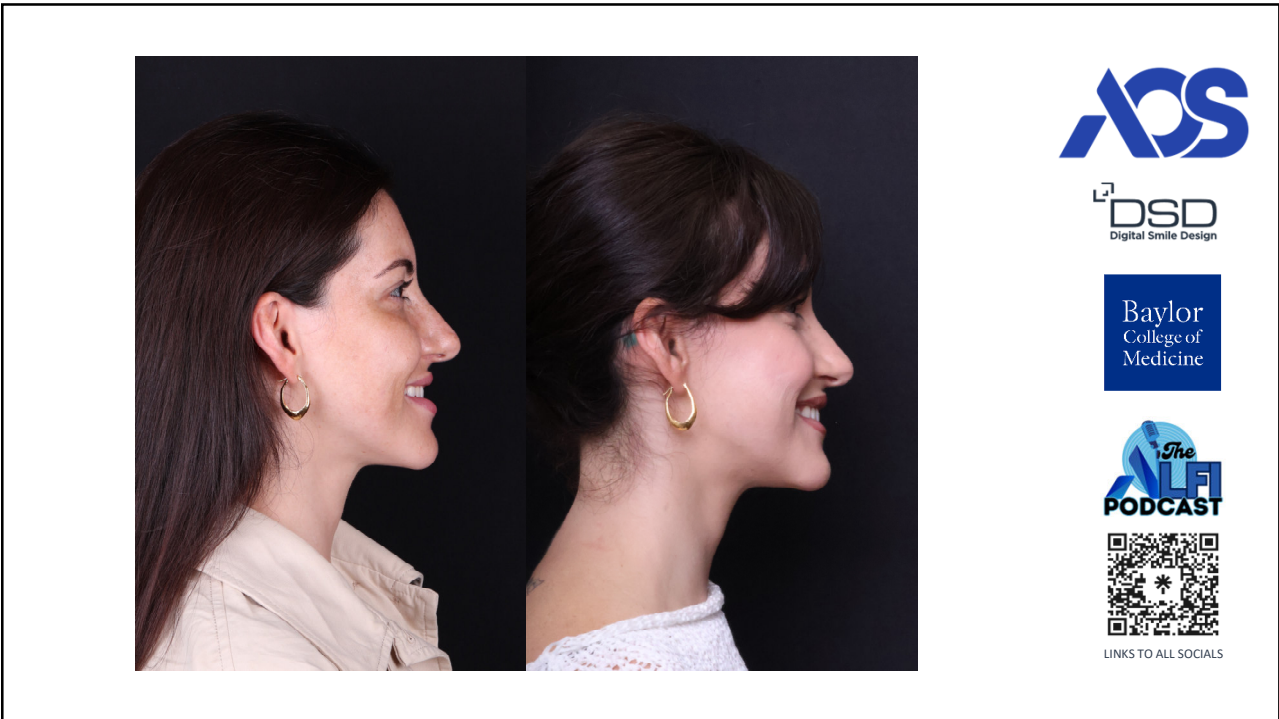
  

Measurement (°)	Pre-Op 3D	Planned 3D	Delta 3D
SNA	83.1	88.5	+5.4
SNB	86.3	85.9	-0.4
ANB	4.0	3.0	-1.0
Maxillary Occlusal Plane	8.9	6.0	-3.0

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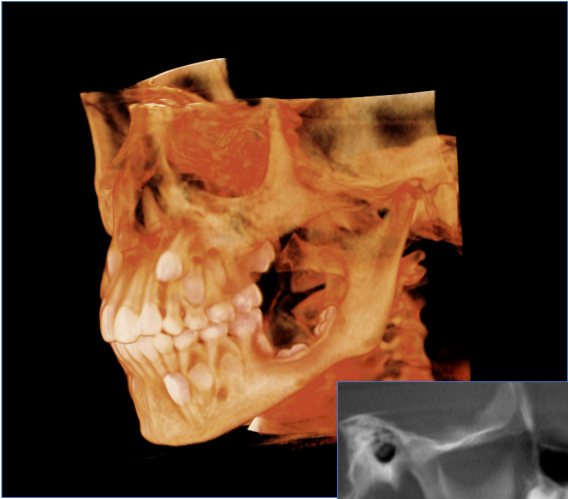


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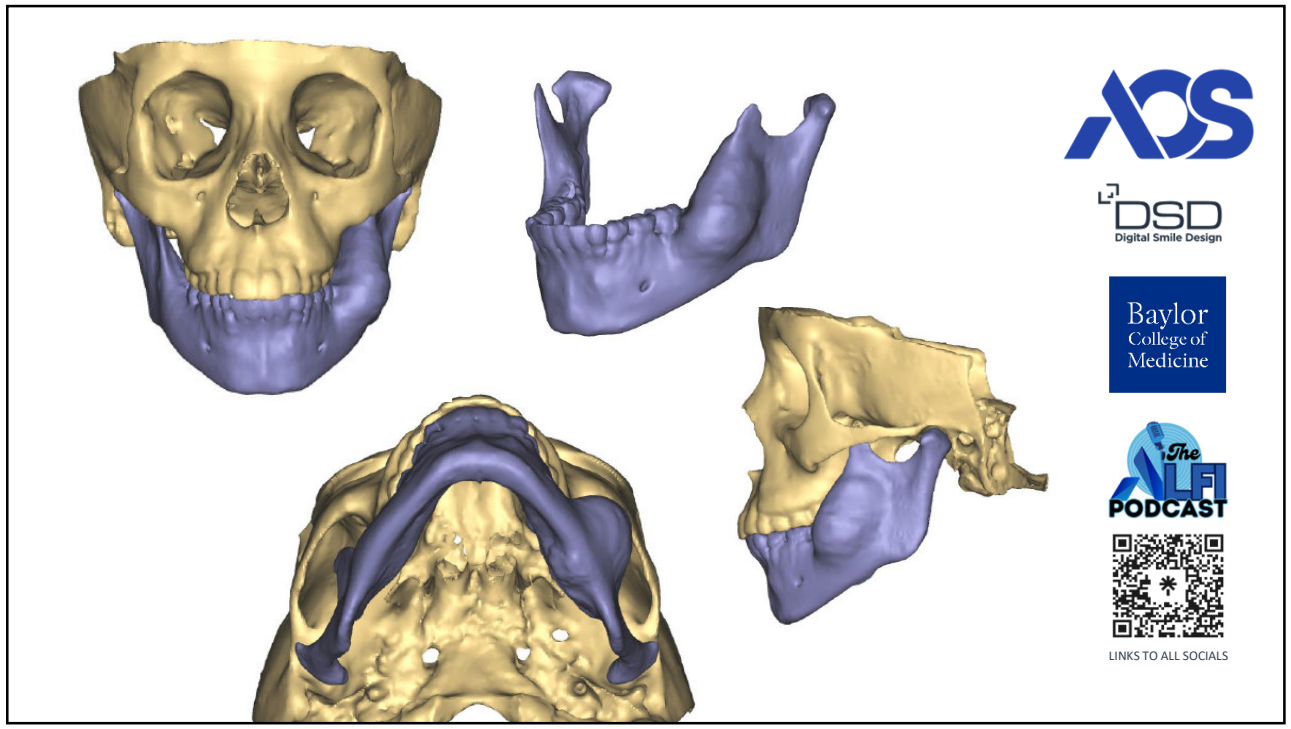
LINKS TO ALL SOCIALS

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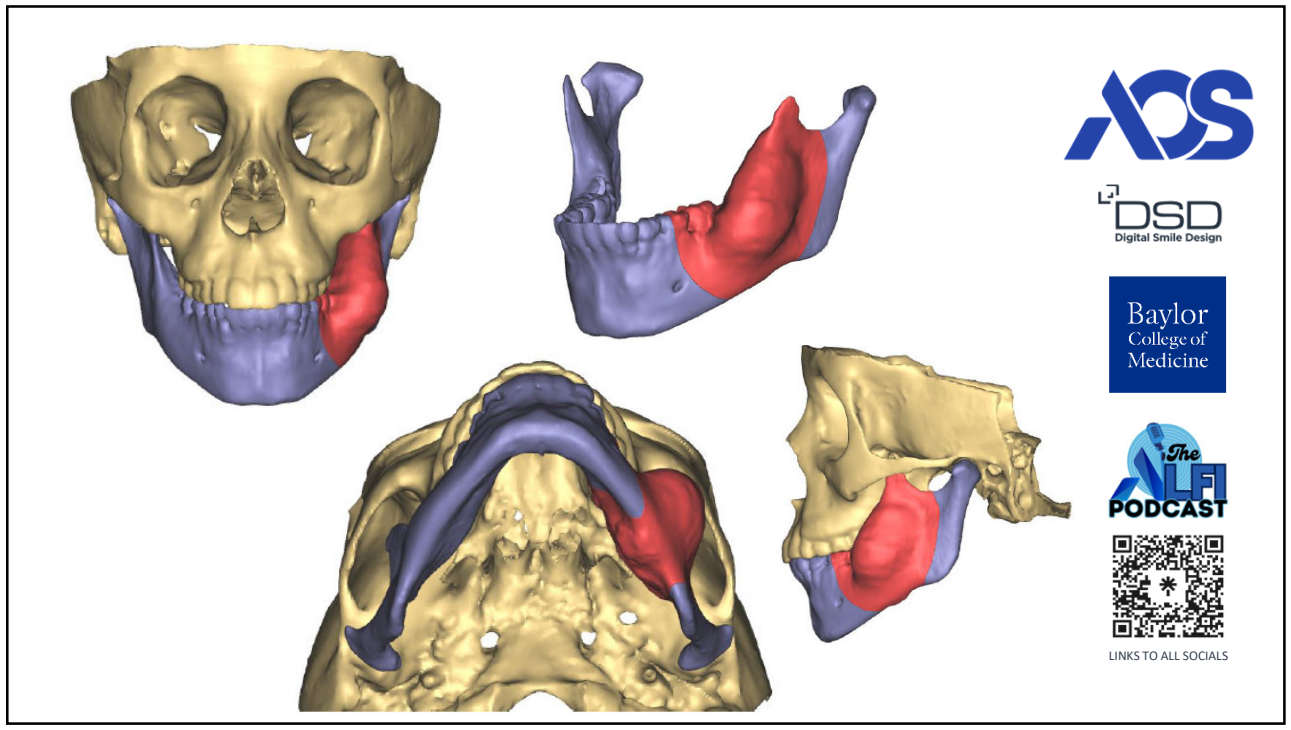


LINKS TO ALL SOCIALS

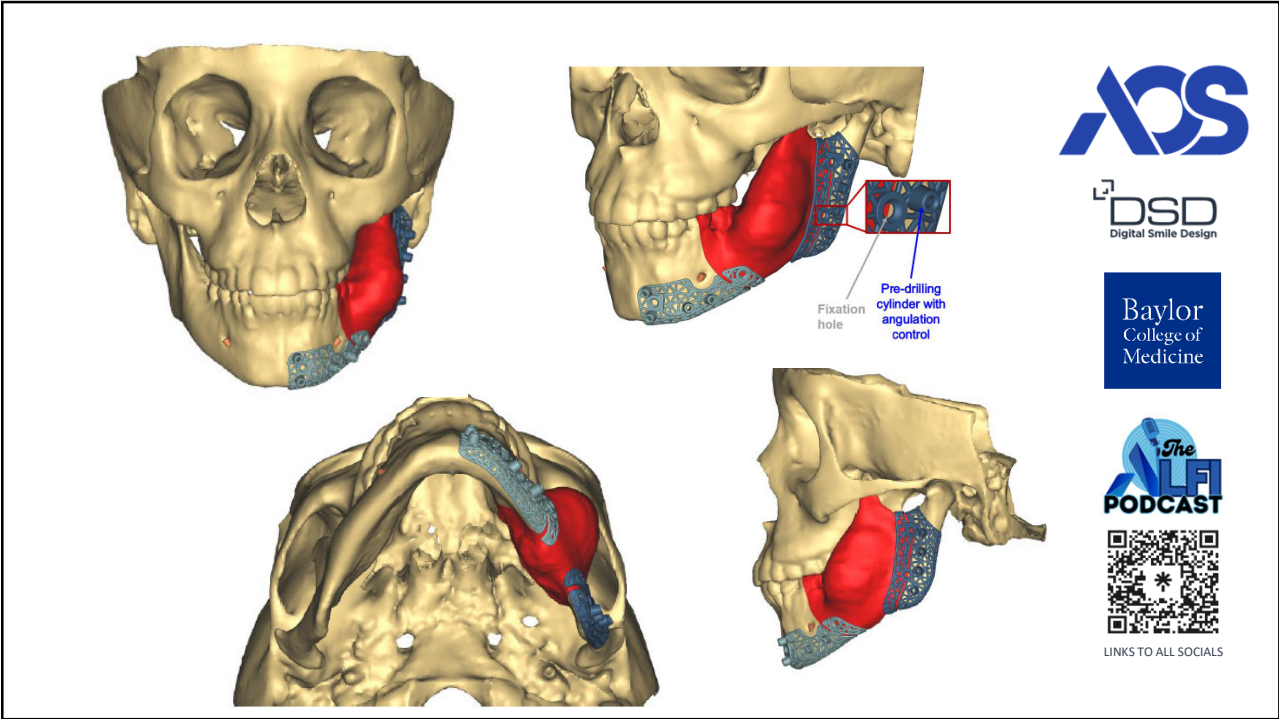
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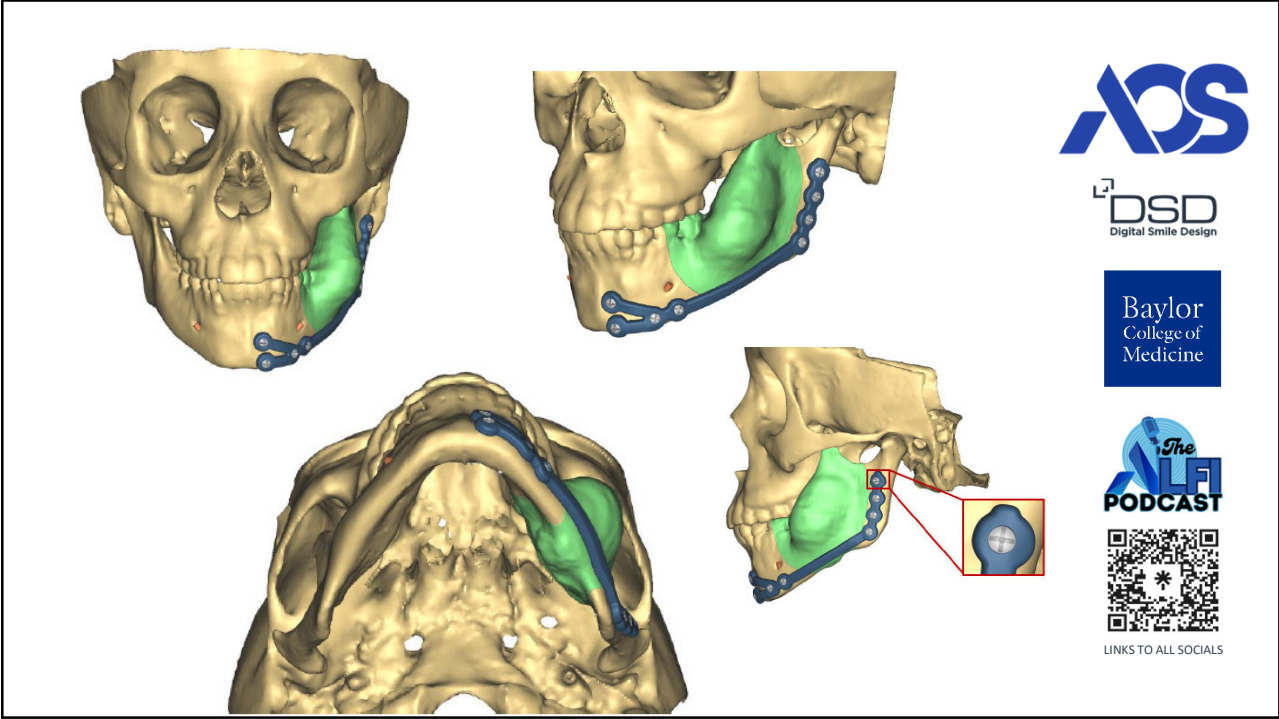
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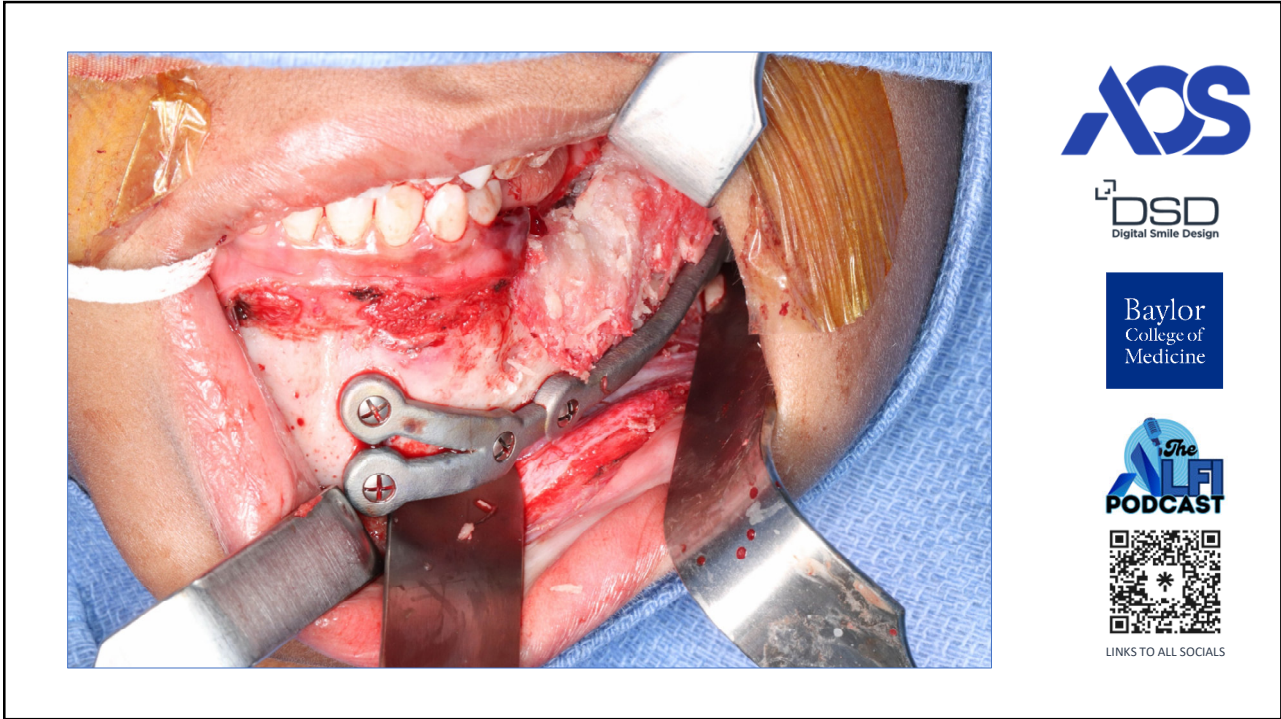
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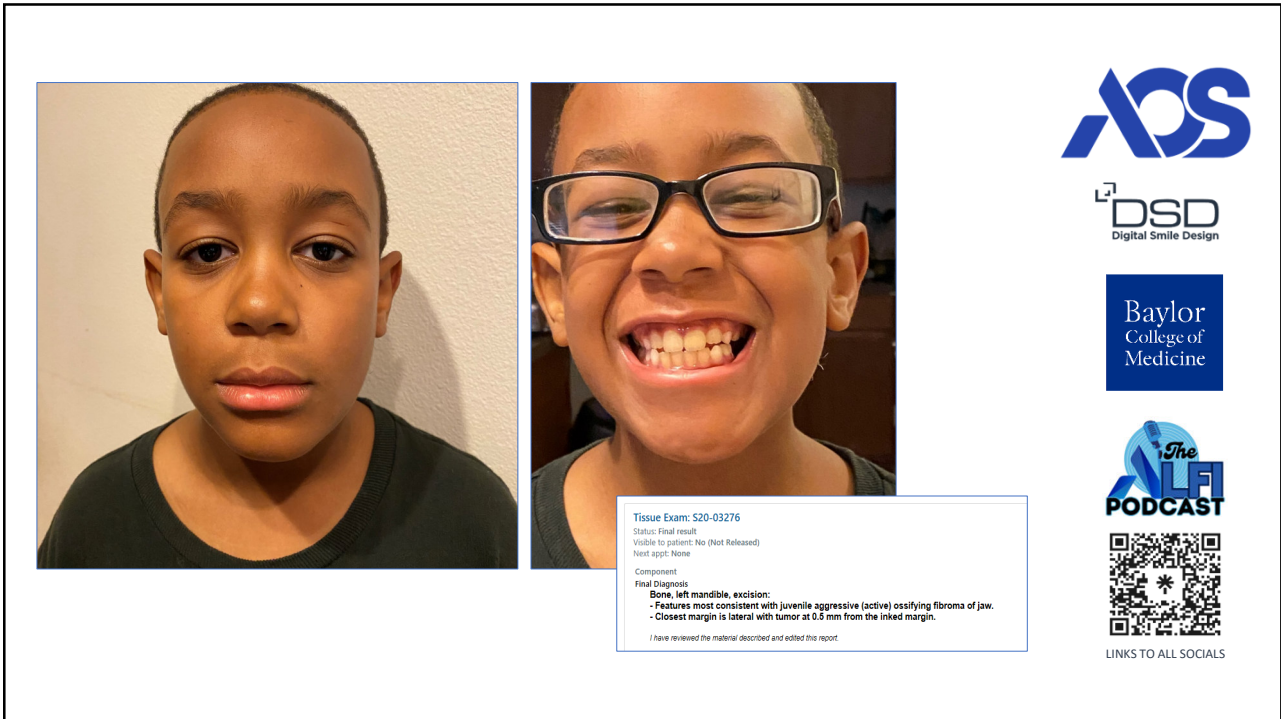
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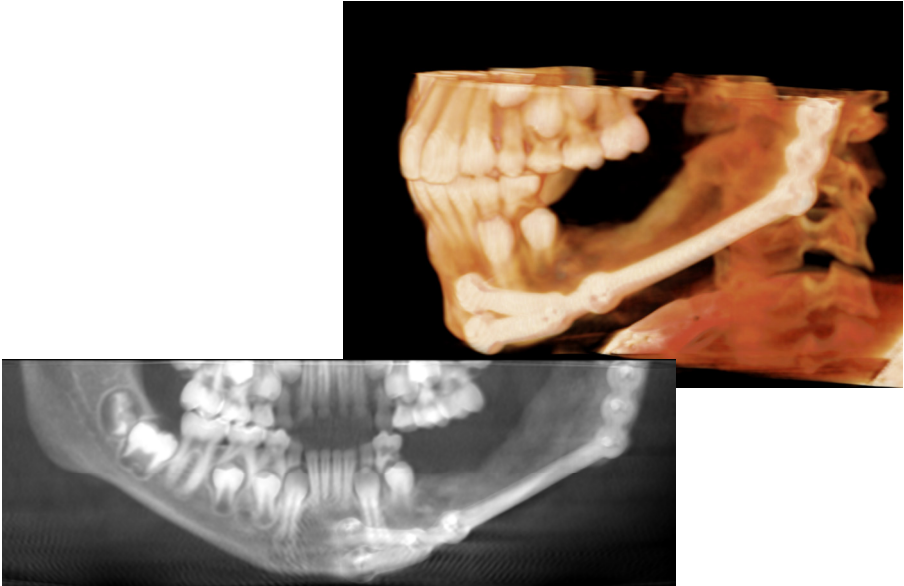
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**AOS**

**DSD**  
Digital Smile Design

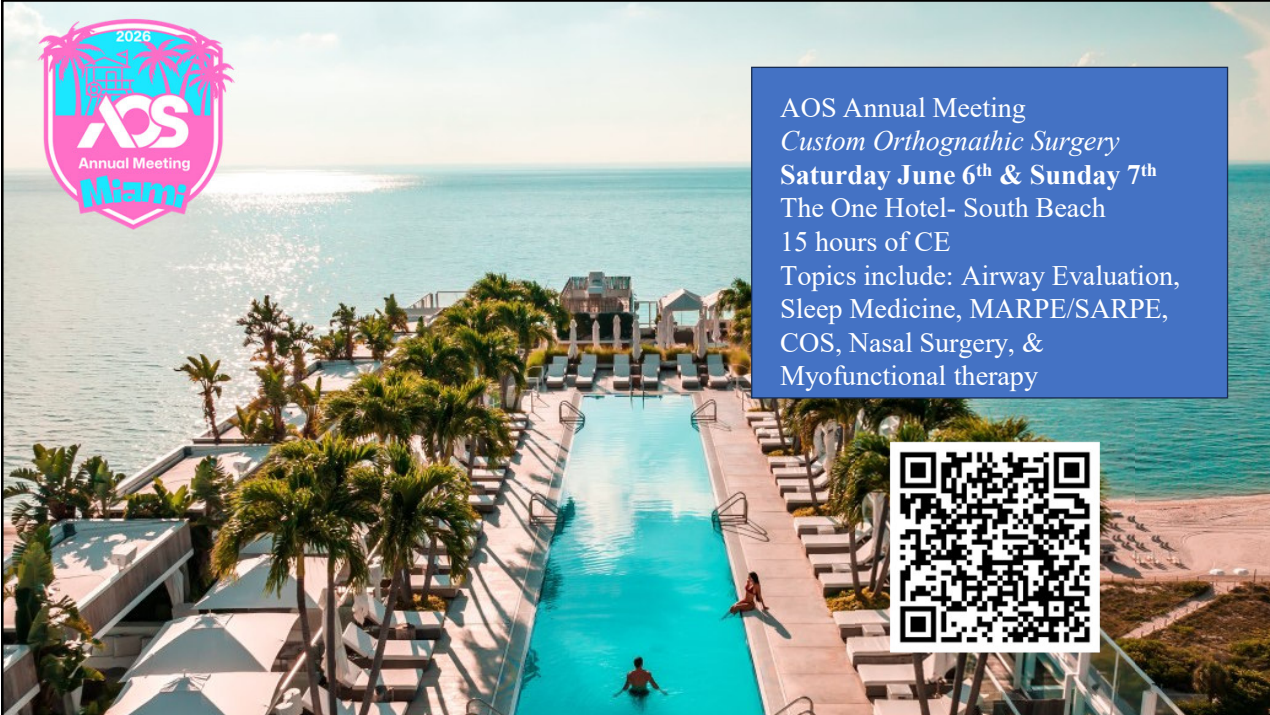

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AOS Annual Meeting  
*Custom Orthognathic Surgery*  
**Saturday June 6<sup>th</sup> & Sunday 7<sup>th</sup>**  
The One Hotel- South Beach  
15 hours of CE  
Topics include: Airway Evaluation,  
Sleep Medicine, MARPE/SARPE,  
COS, Nasal Surgery, &  
Myofunctional therapy



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# QUESTIONS?







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Sleep Education Consortium (SEC) partners with Learner+, a clinician-centric reflective learning platform that rewards CME/CE credits to busy clinicians anytime and anywhere learning happens. Learn more about how you can reflect to unlock credits below. [View CME Credit Info](#)

**REFLECT NOW**

<https://champions.learner.plus/sec/>

Double jaw surgery using 3D printed plates.

**What inspired you to reflect?**

Pick the context and a clinically relevant concept or phrase that inspired you to reflect.

Reflective Learning Moment ▼

Double jaw surgery using 3D printed plates

Step 1 of 4

**Next** ✓