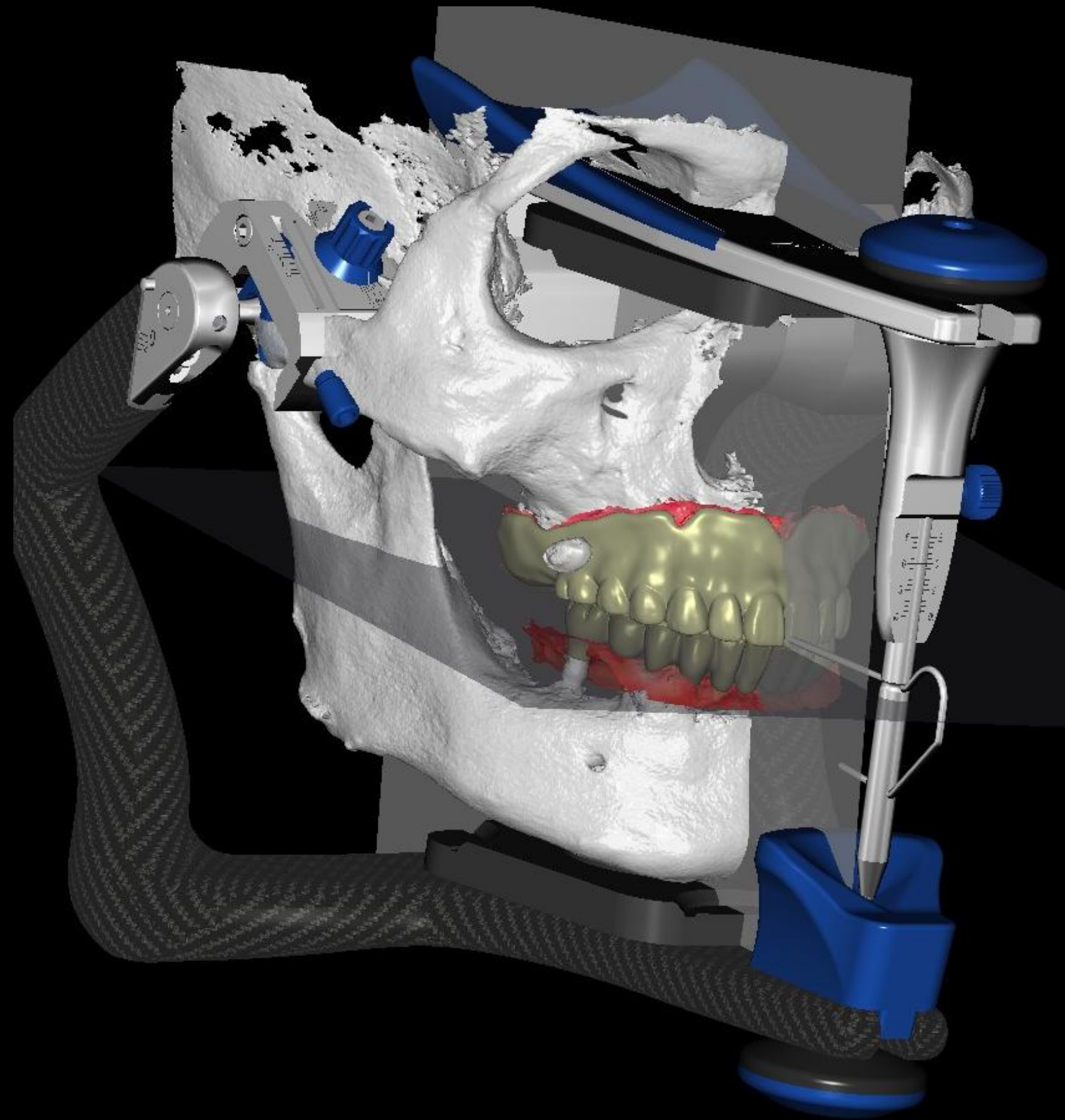


Digital transformation through minimalism



Implant trends -minimalism

Short and narrow for less invasive

Digital for accuracy and efficiency

Contents

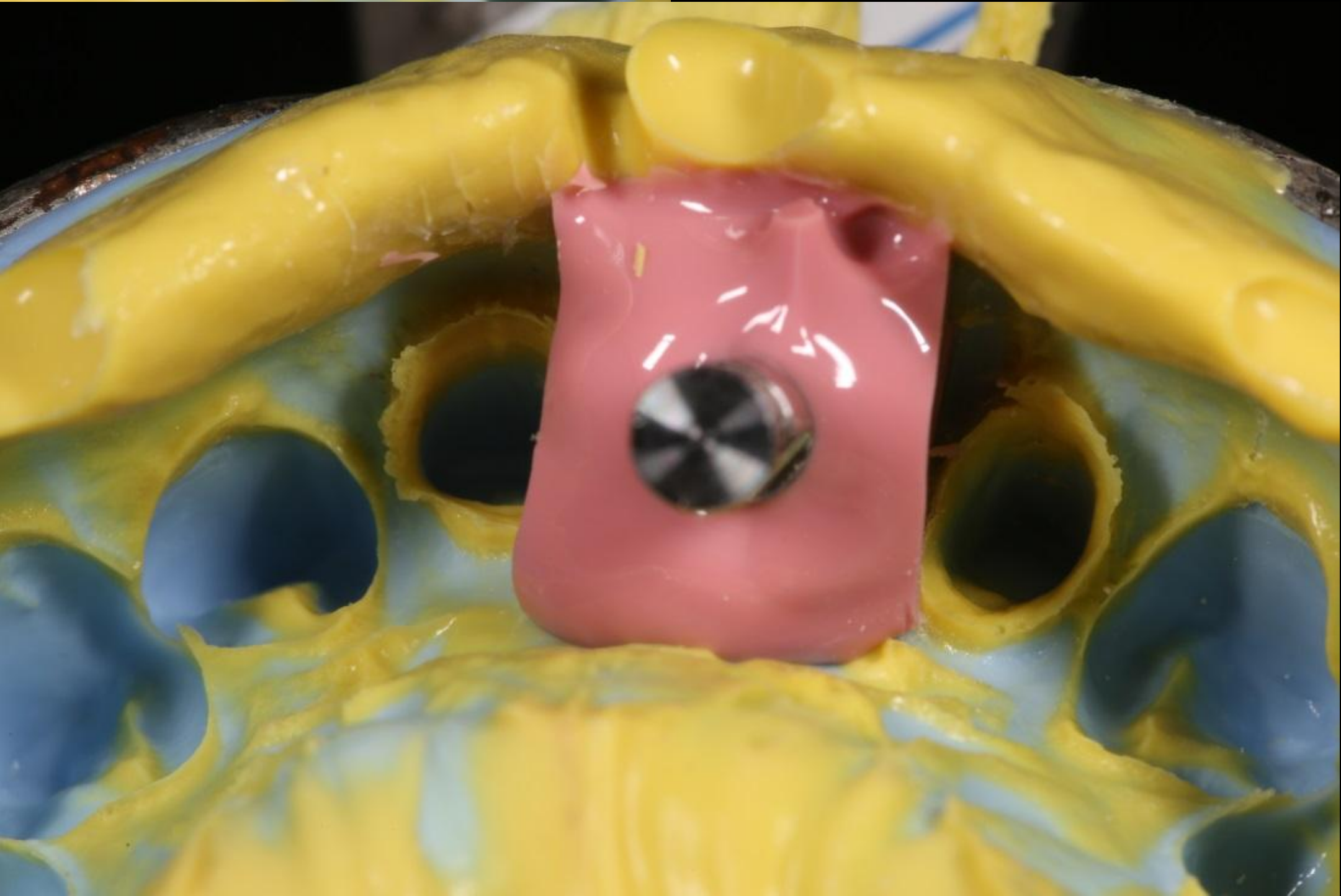
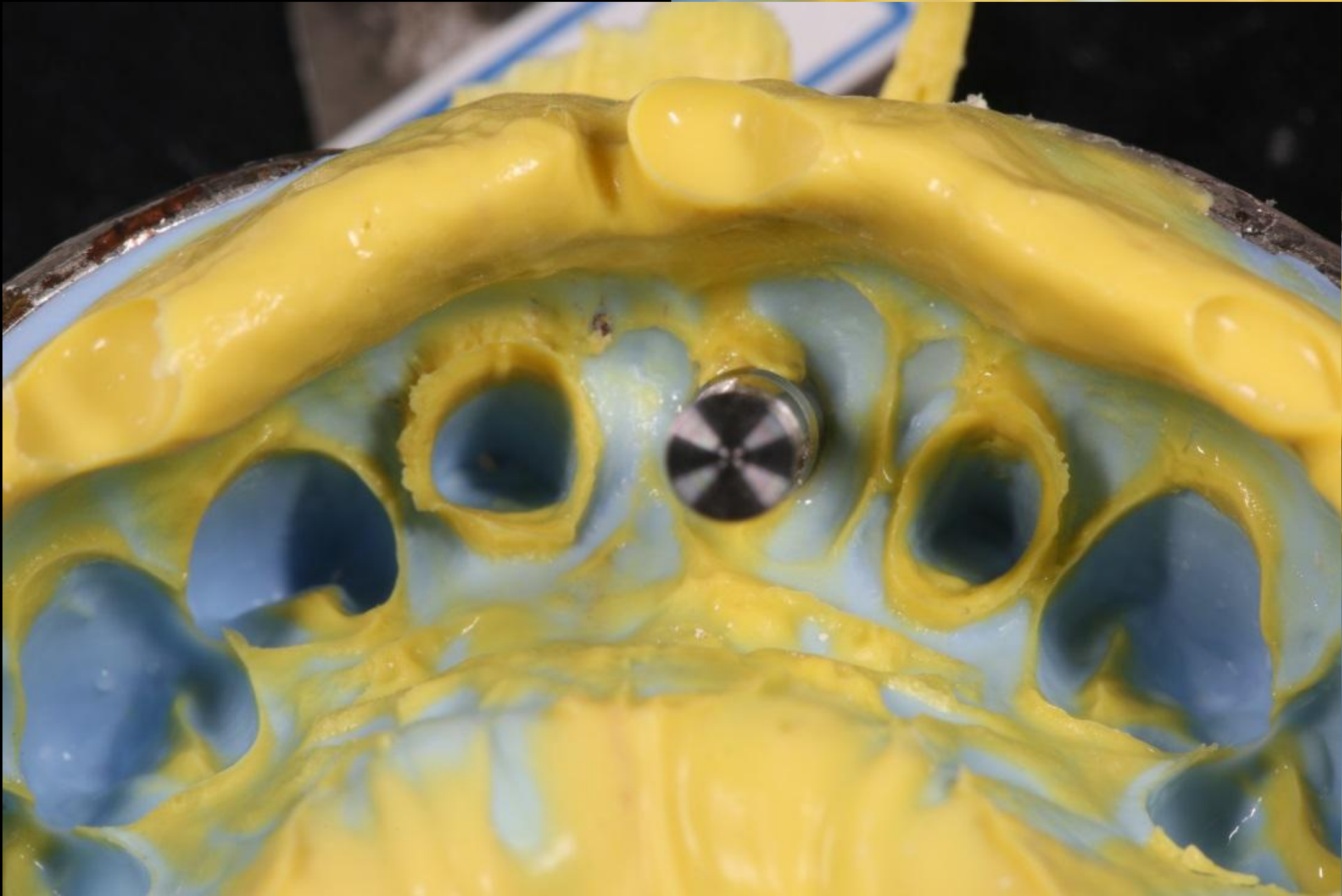
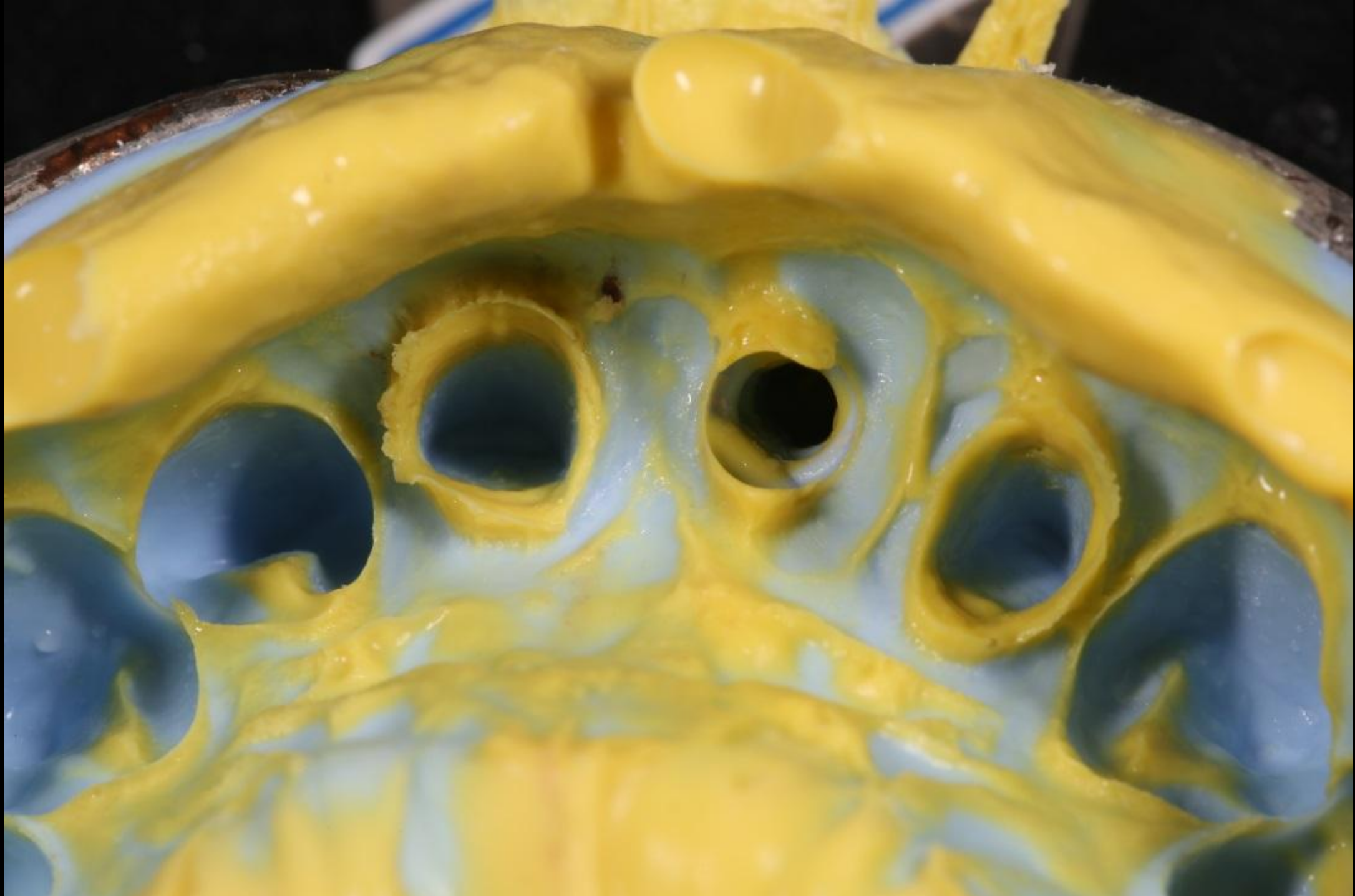
Introduction

Tooth oriented

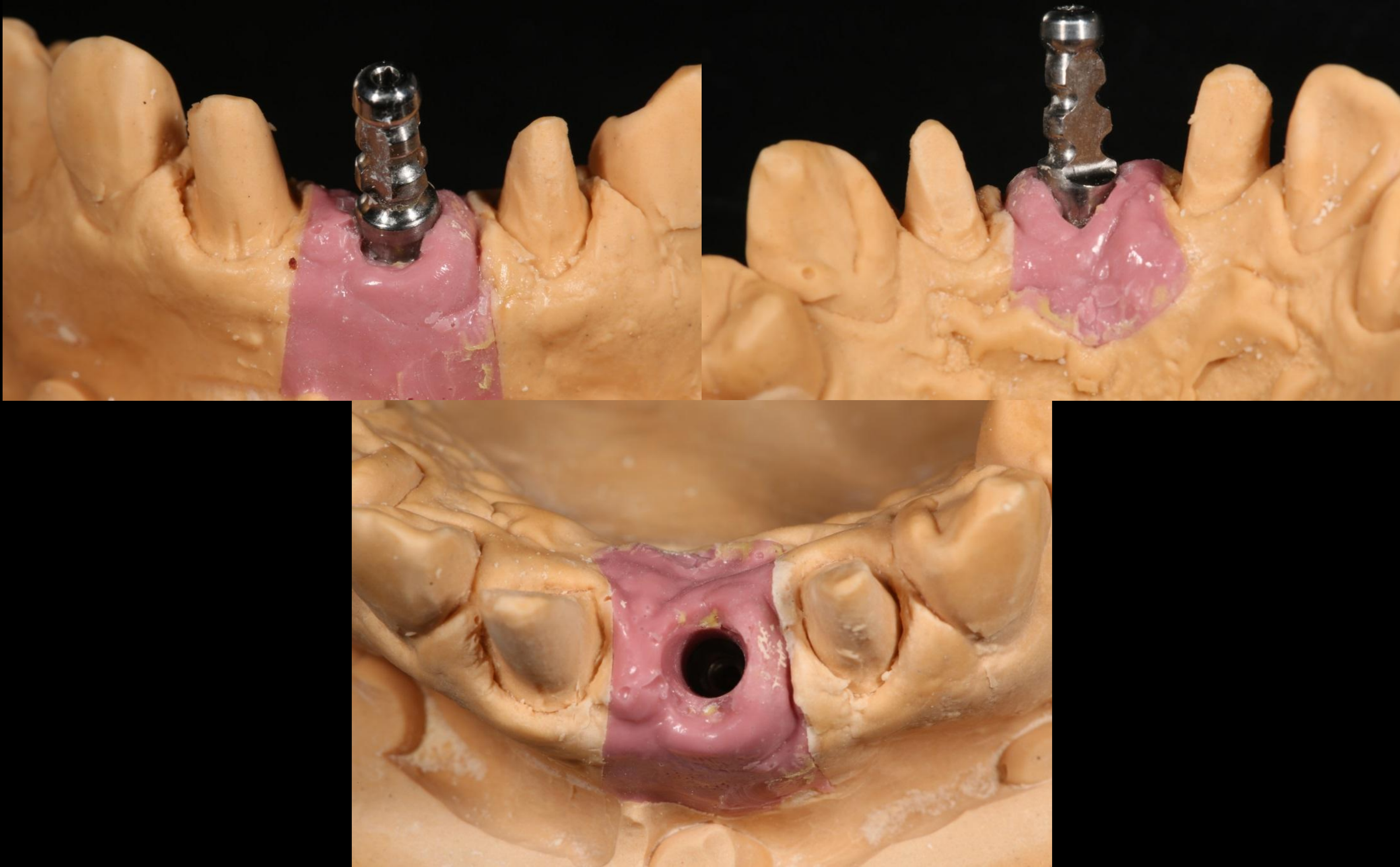
Facial driven

CT centered

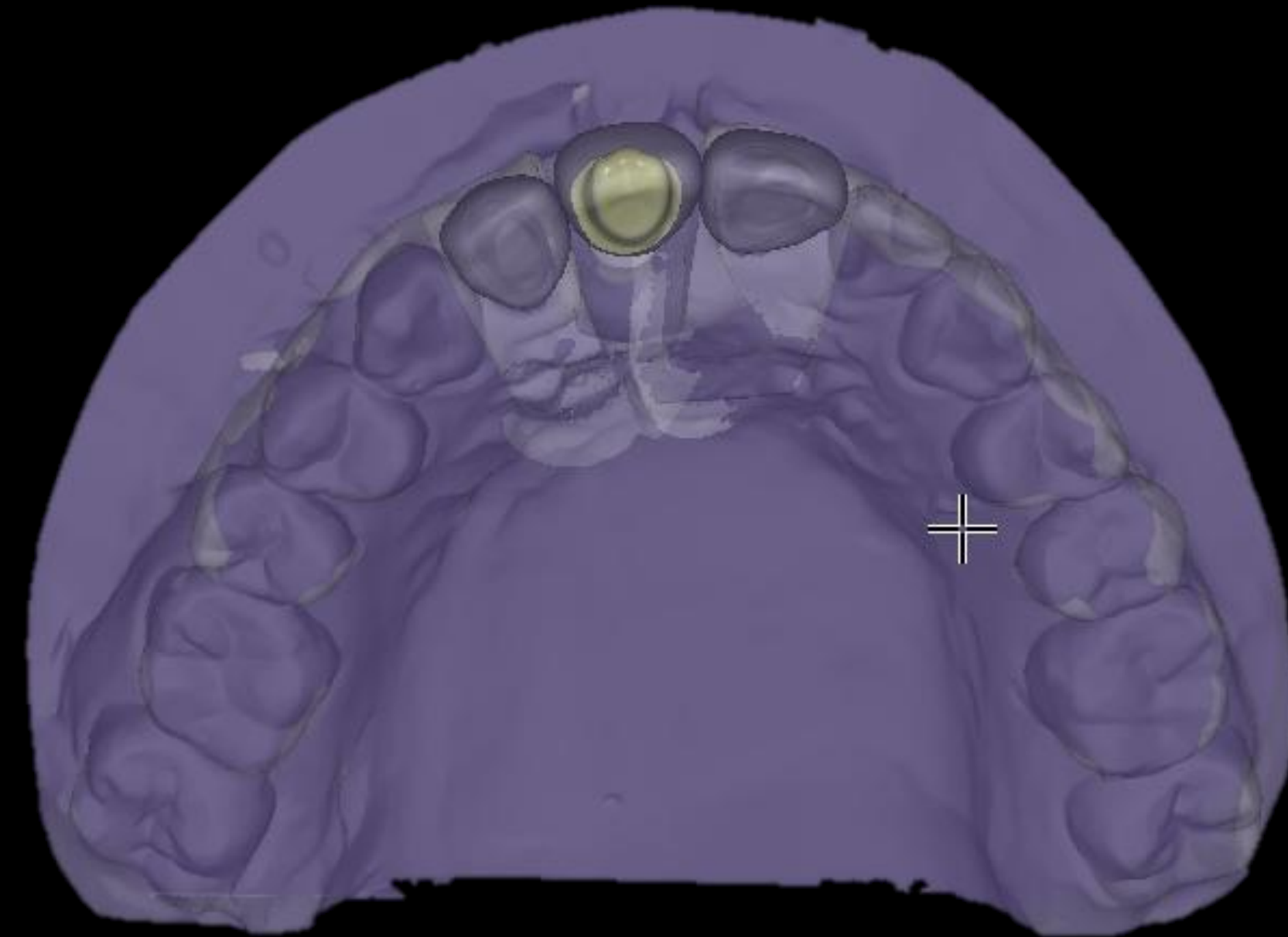
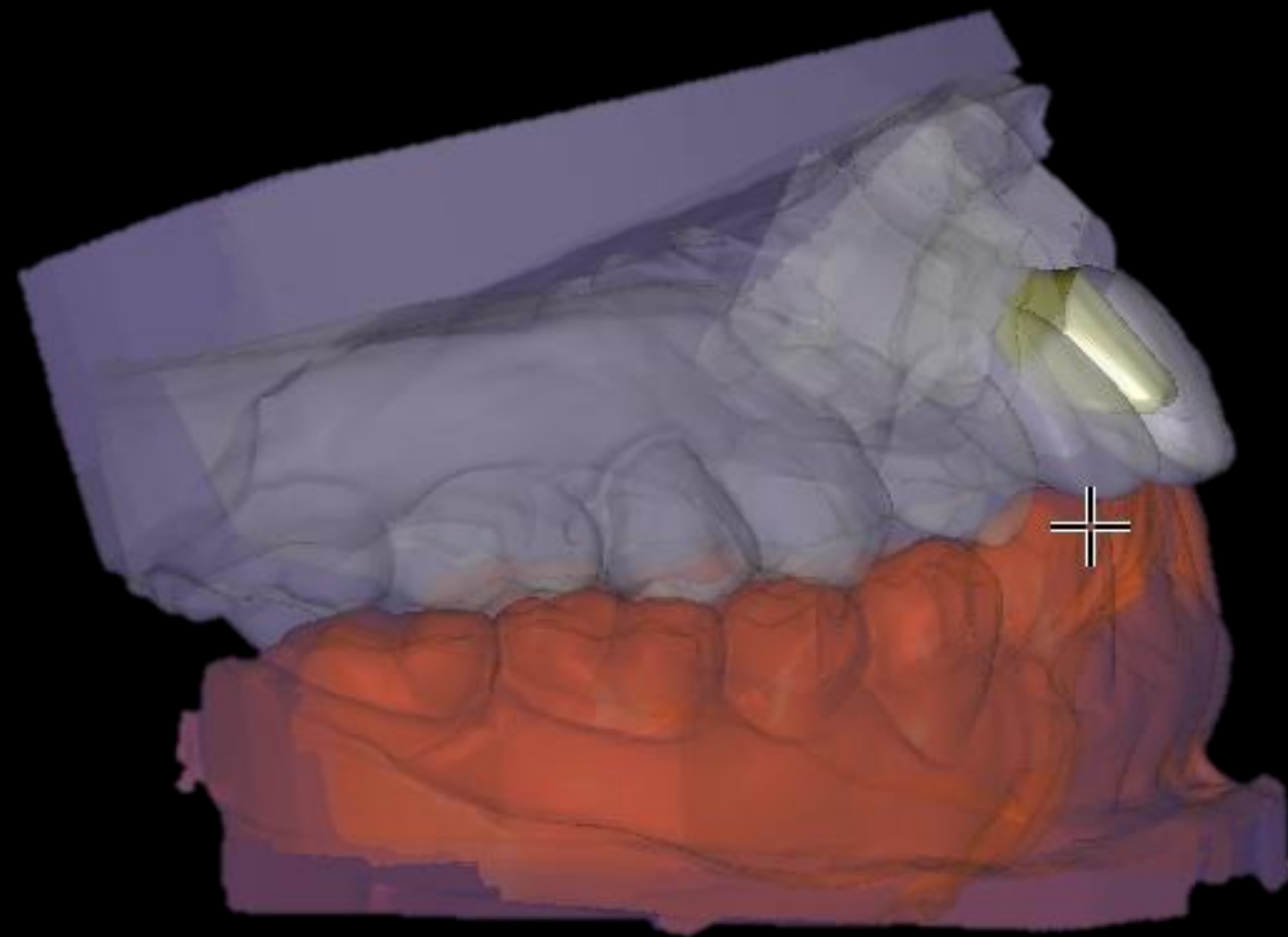
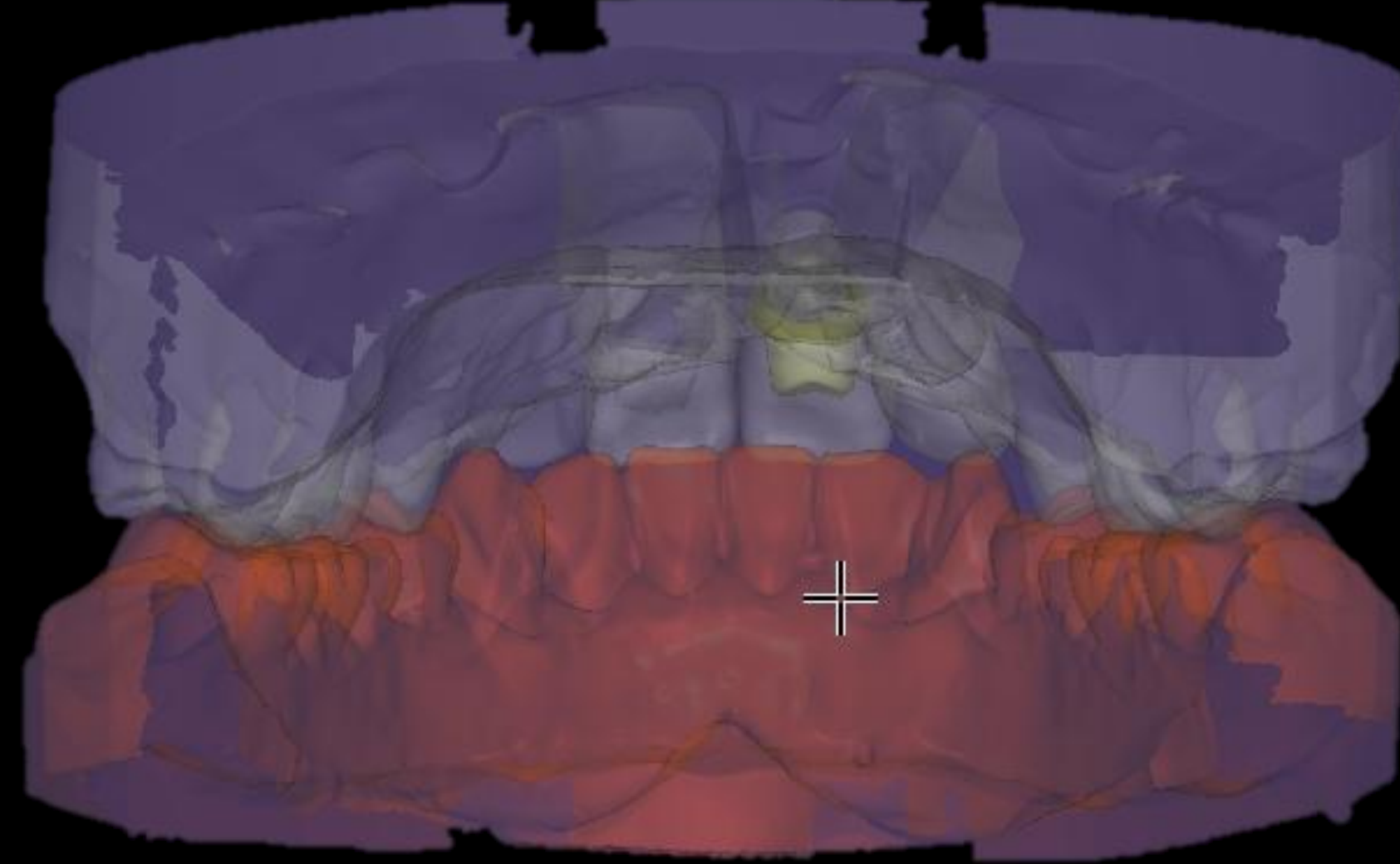
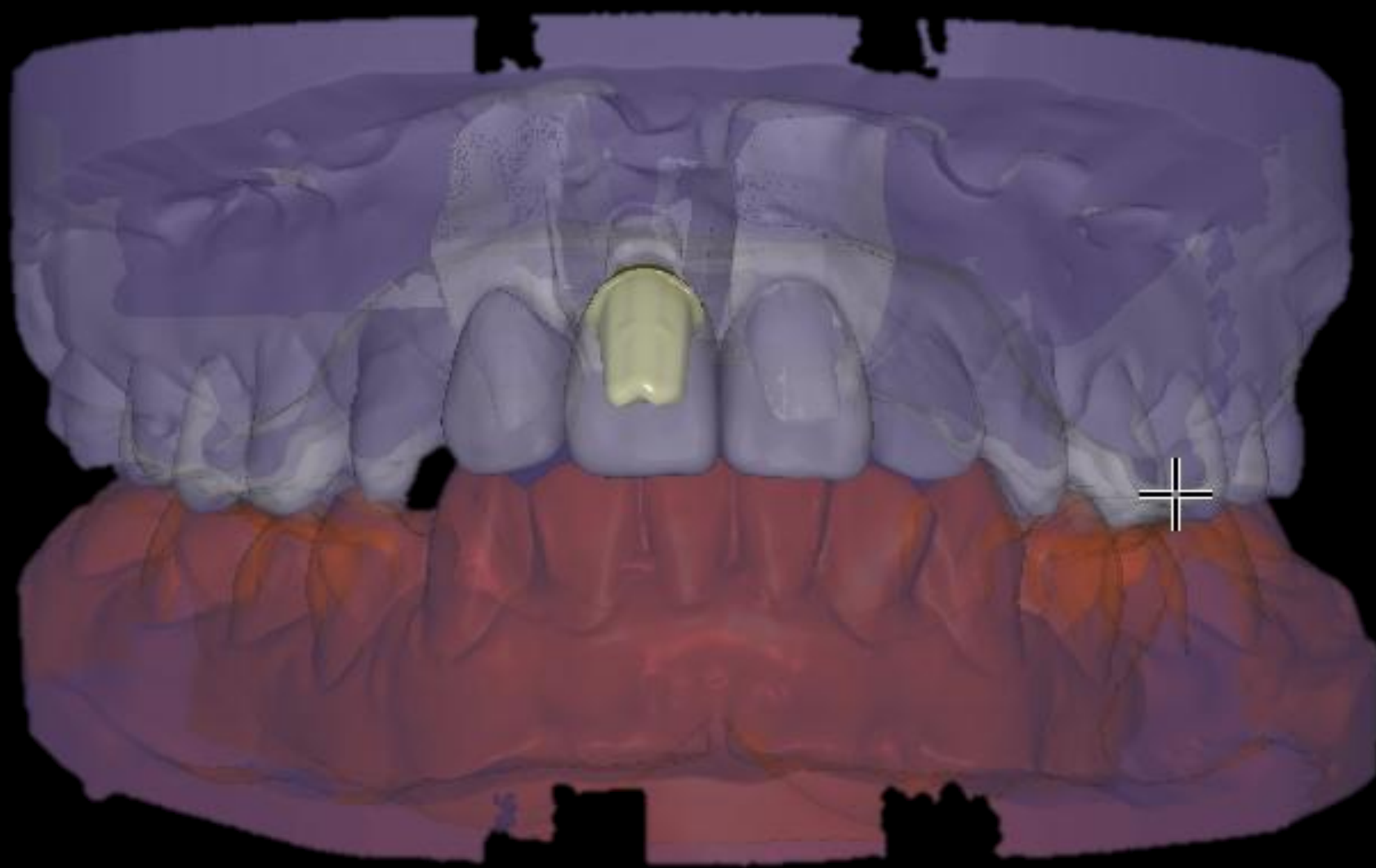
Impression Model



Model



CAD (Customized abutment)



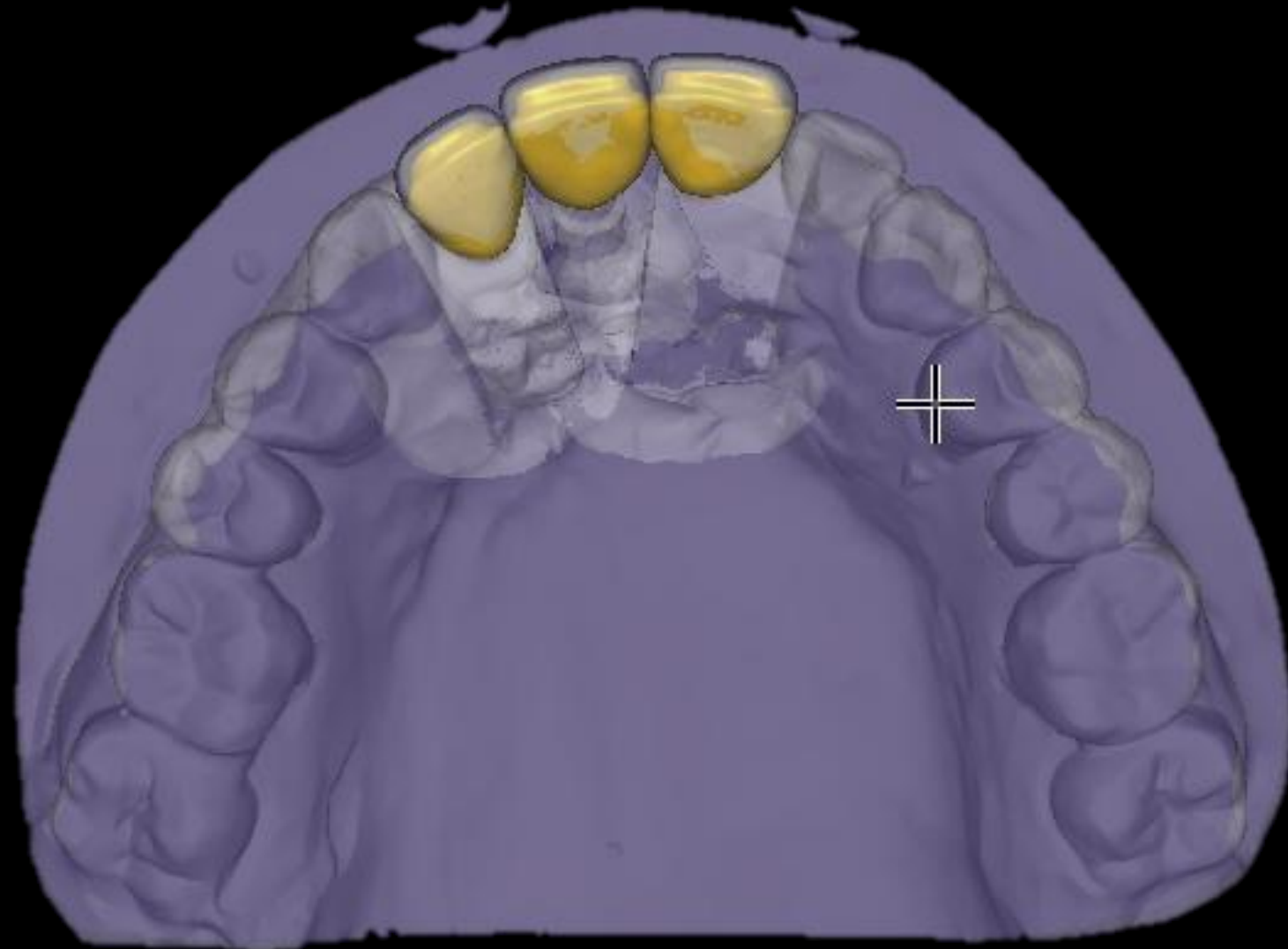
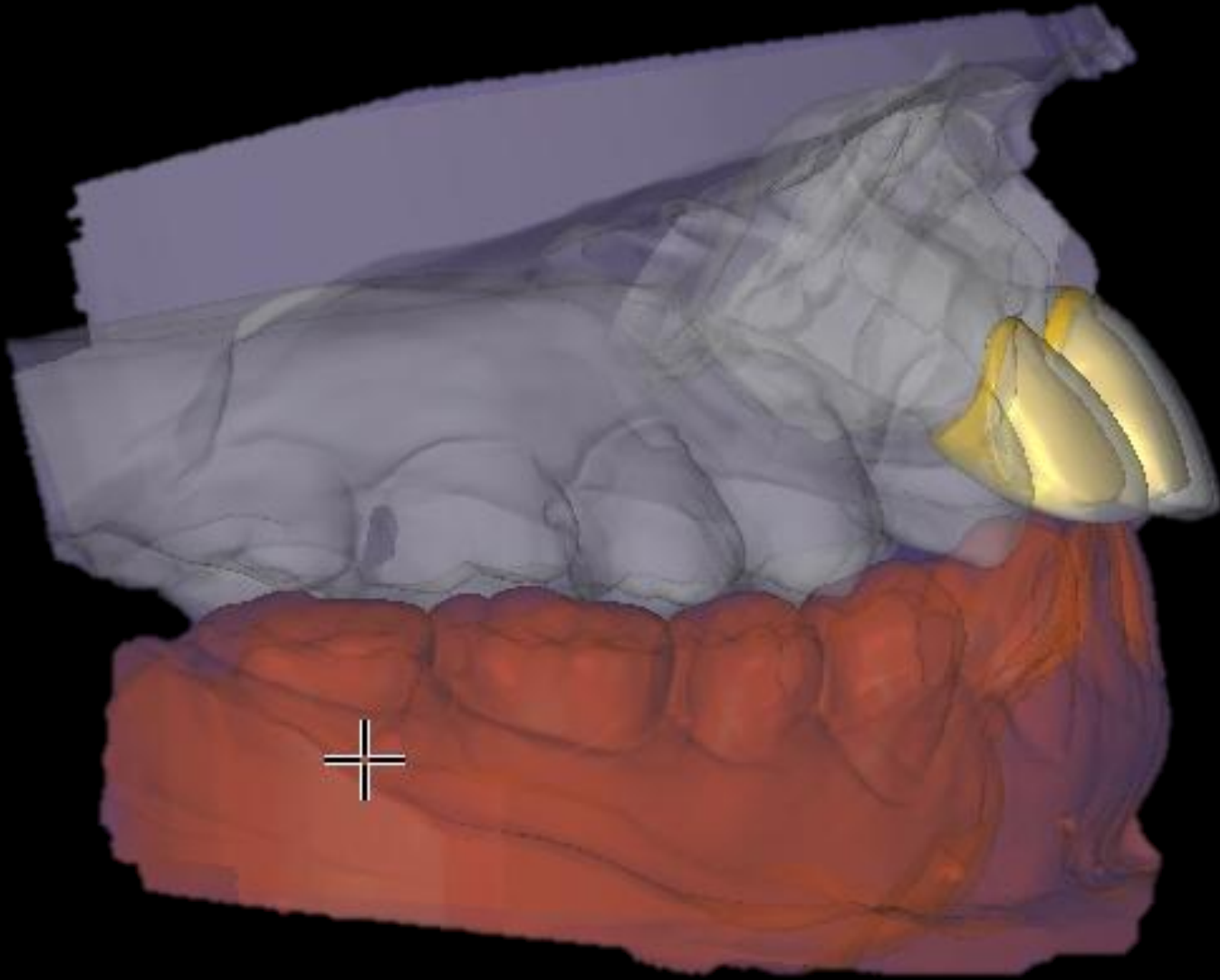
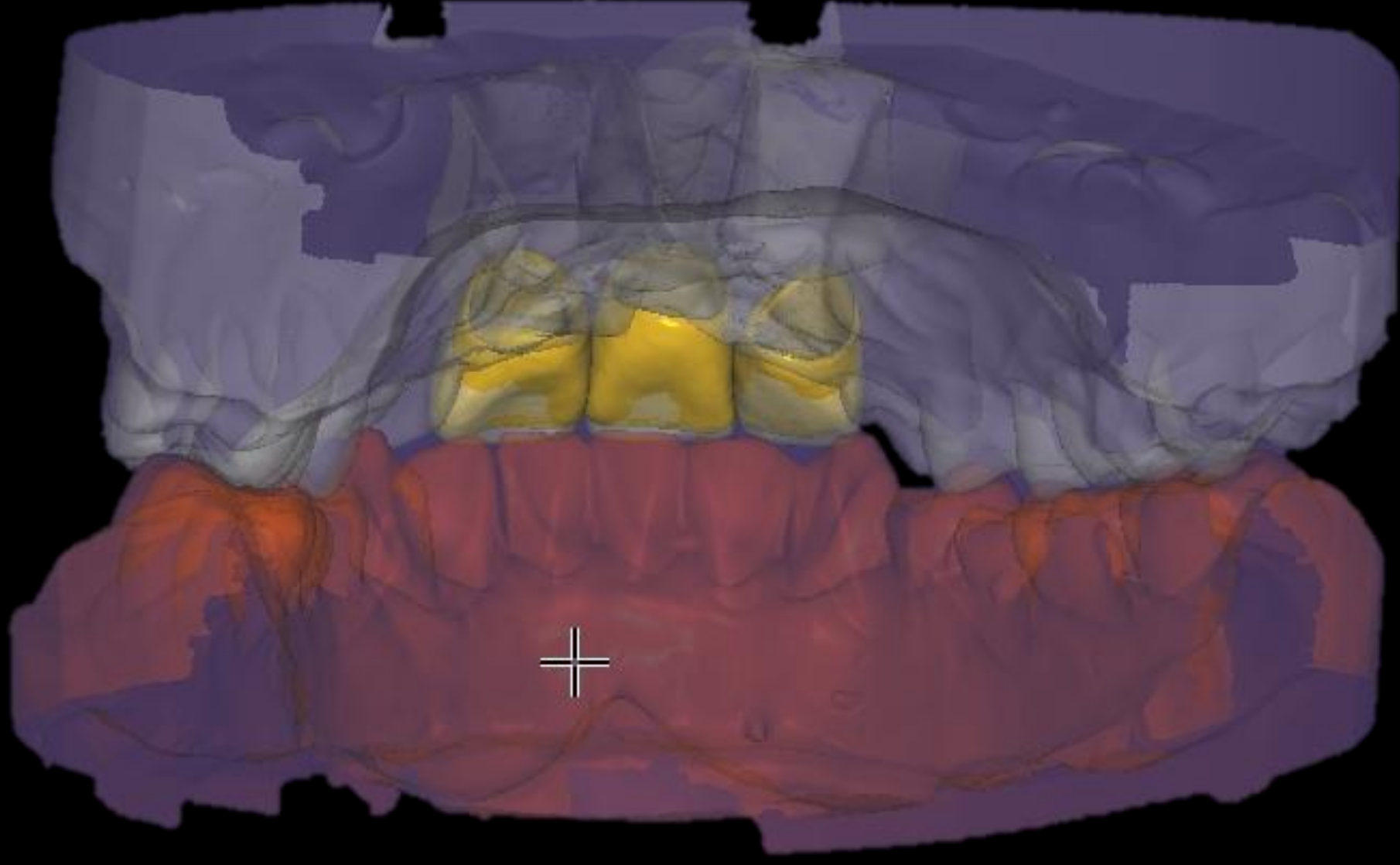
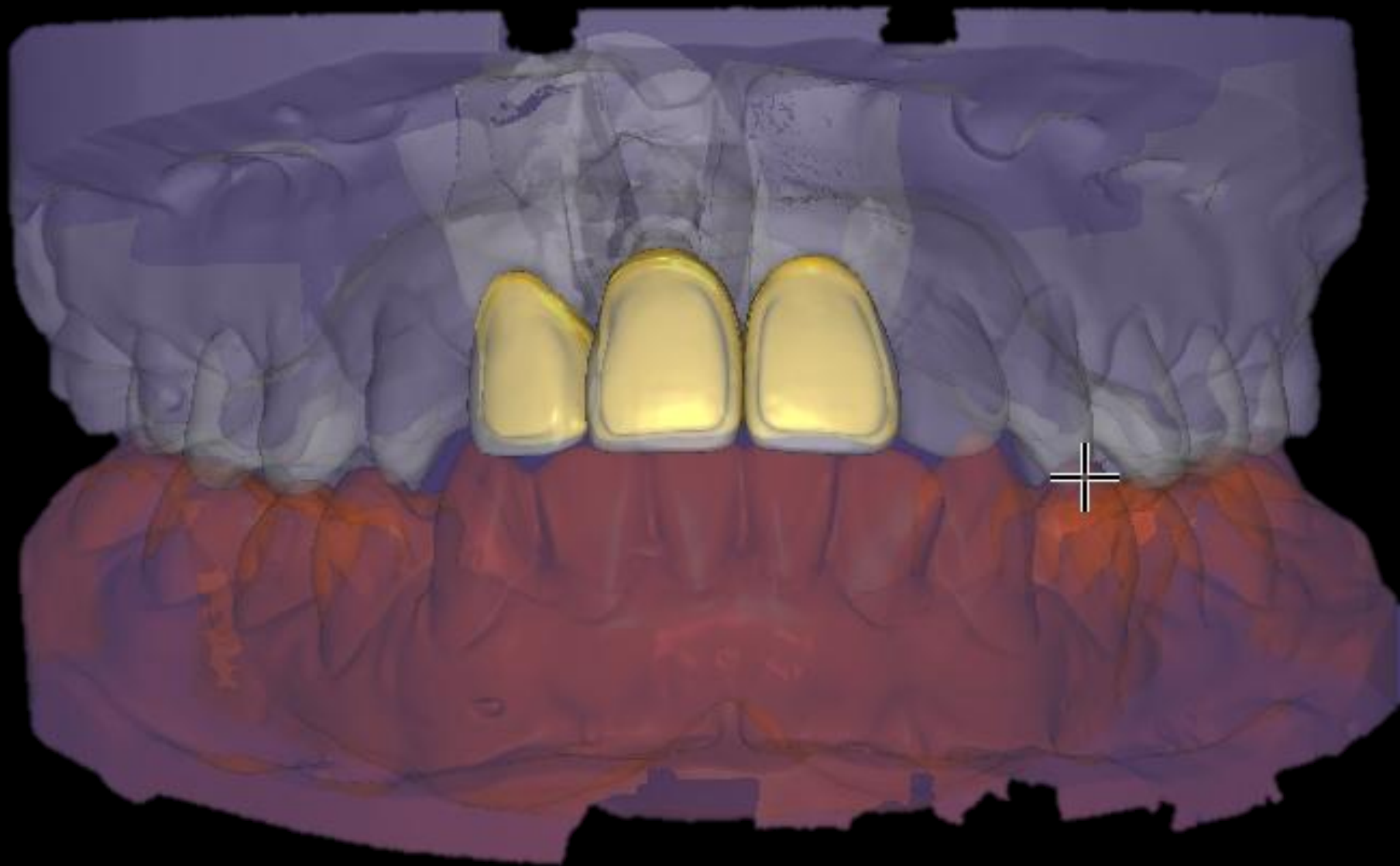
Customized abutment adaptation



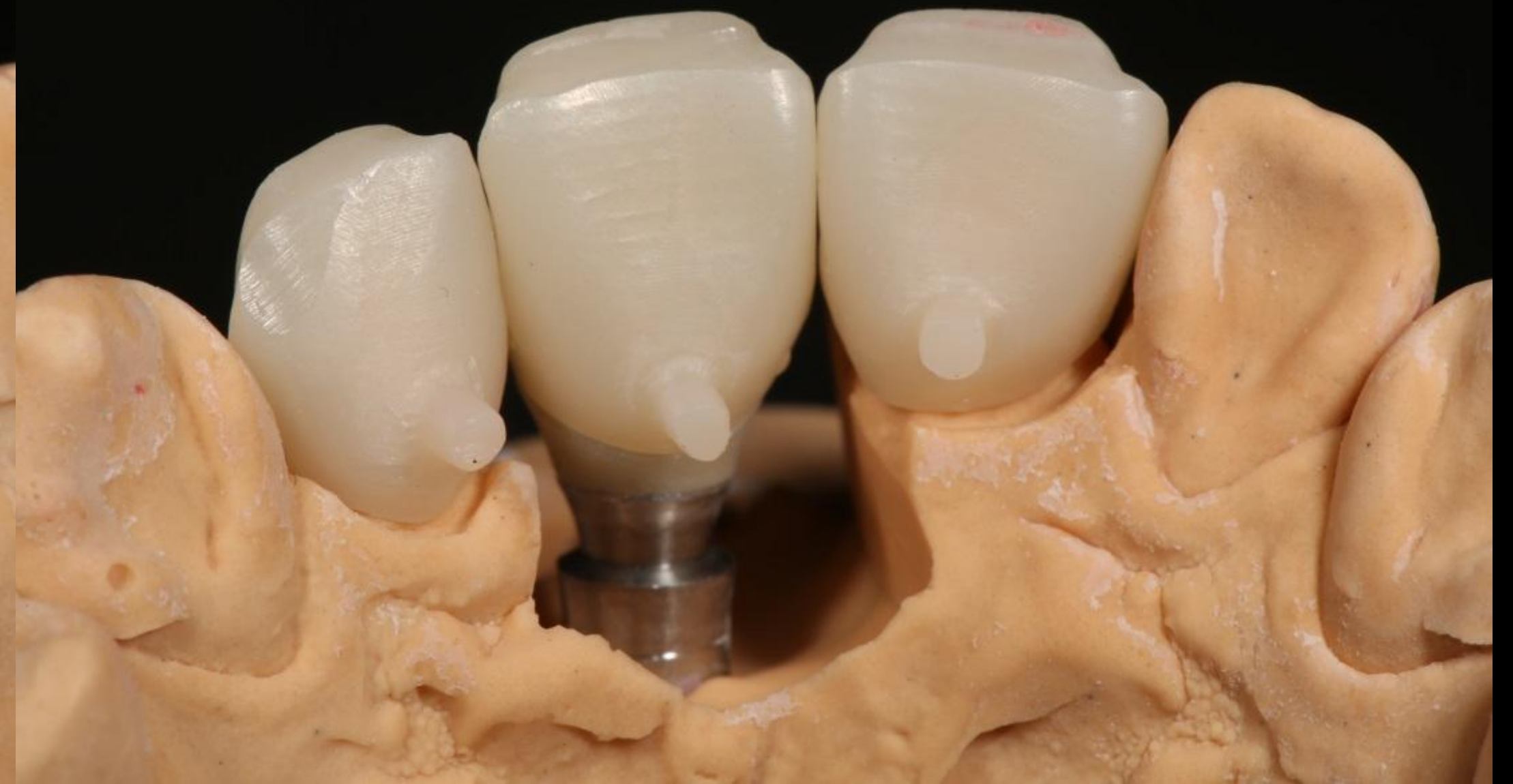
Wax-up (2017-03-17)



CAD (Final prosthesis)



Milling / Sintering



Porcelain build up



Glazing





Oral exam



Oral exam



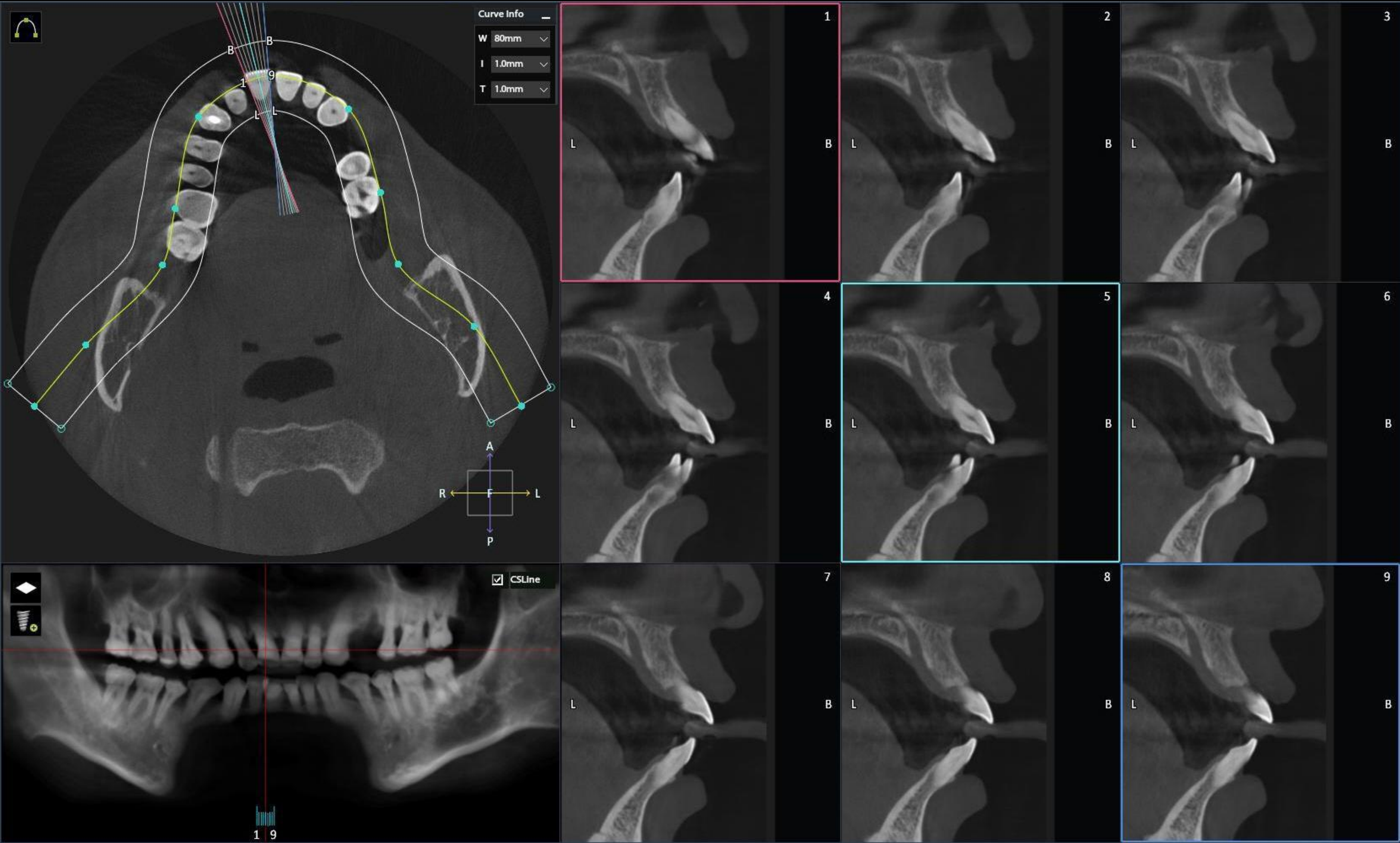
Oral exam



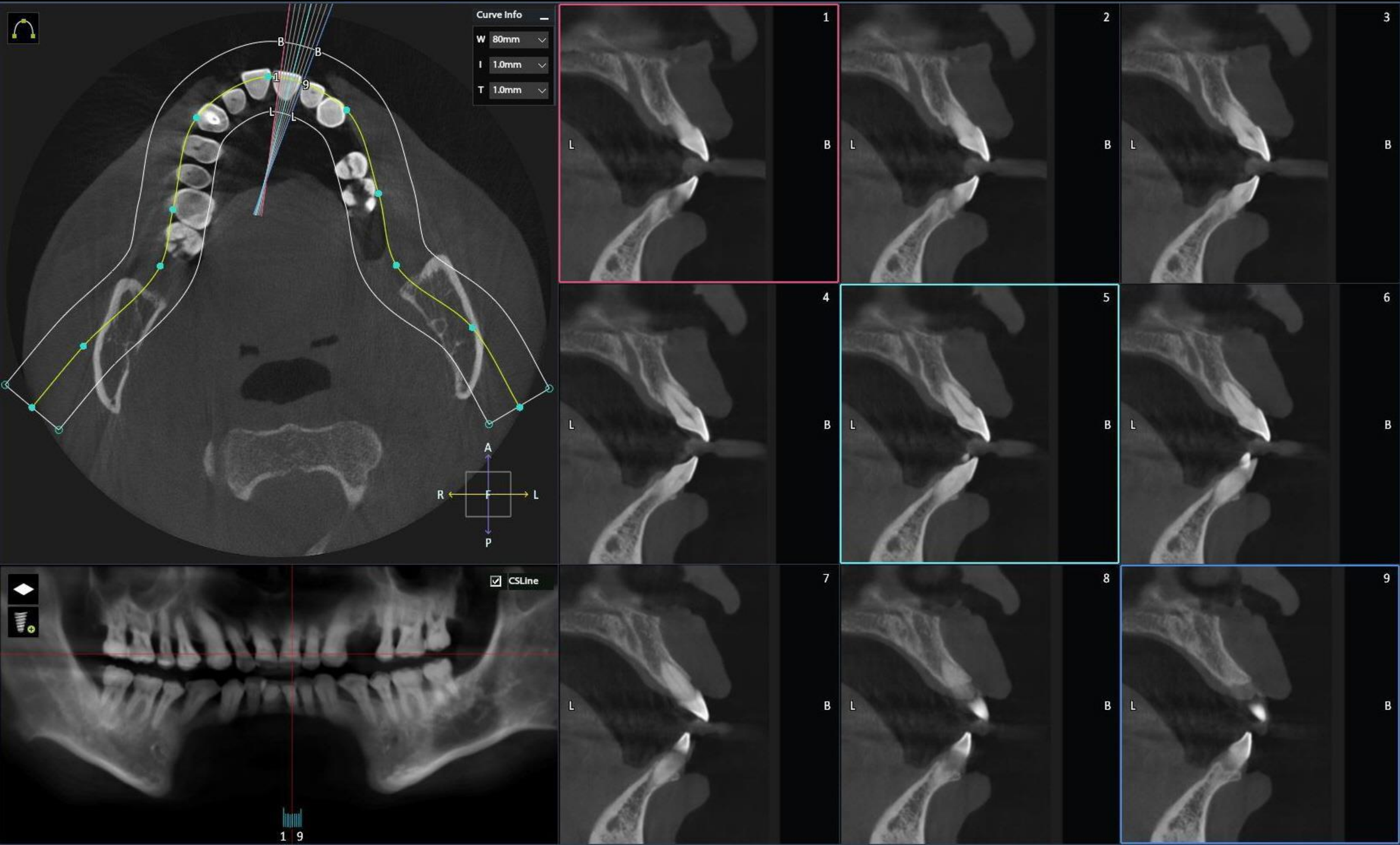
Pre-op



#11 Pre-op



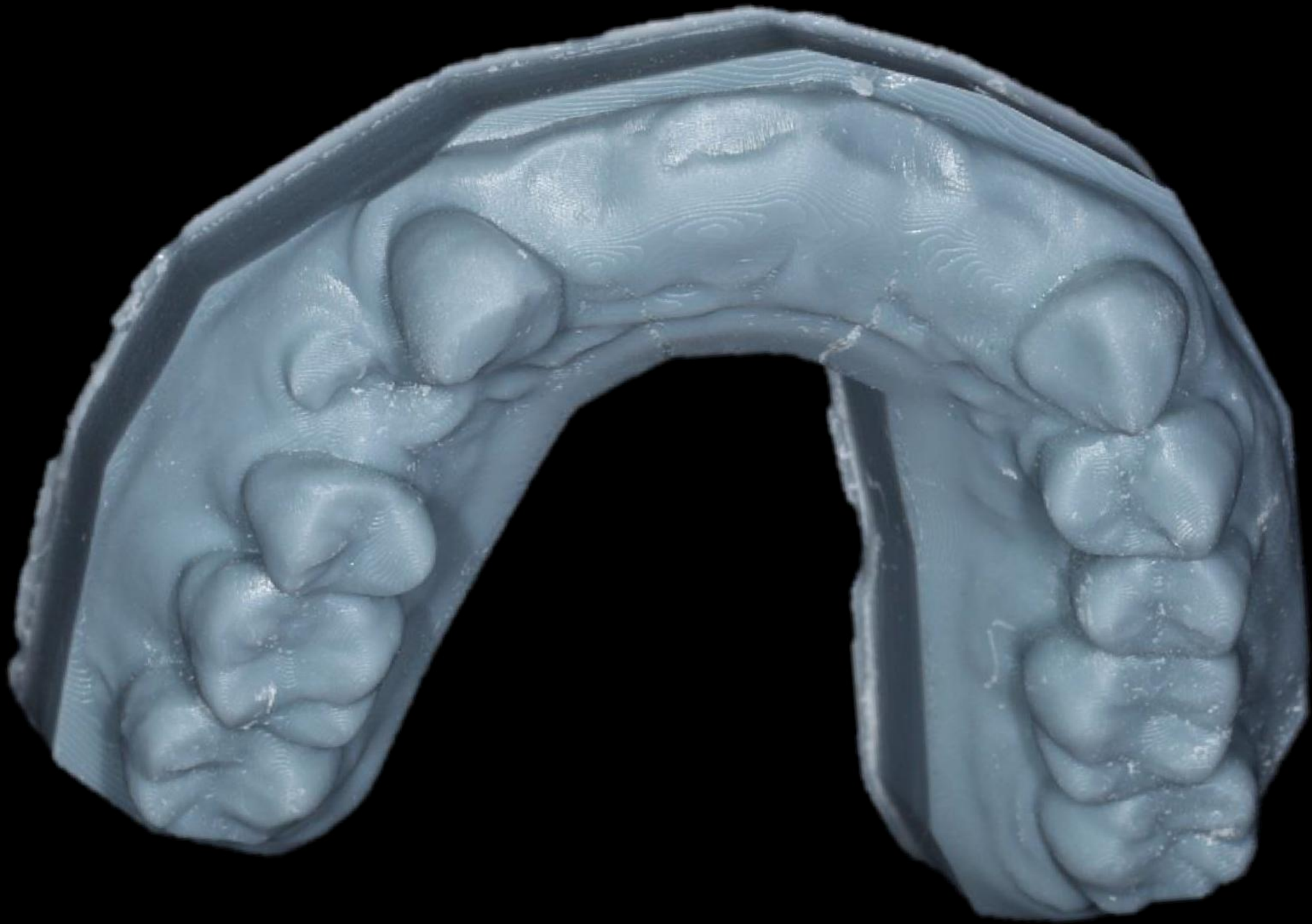
#21 Pre-op



Intra Oral Scanning



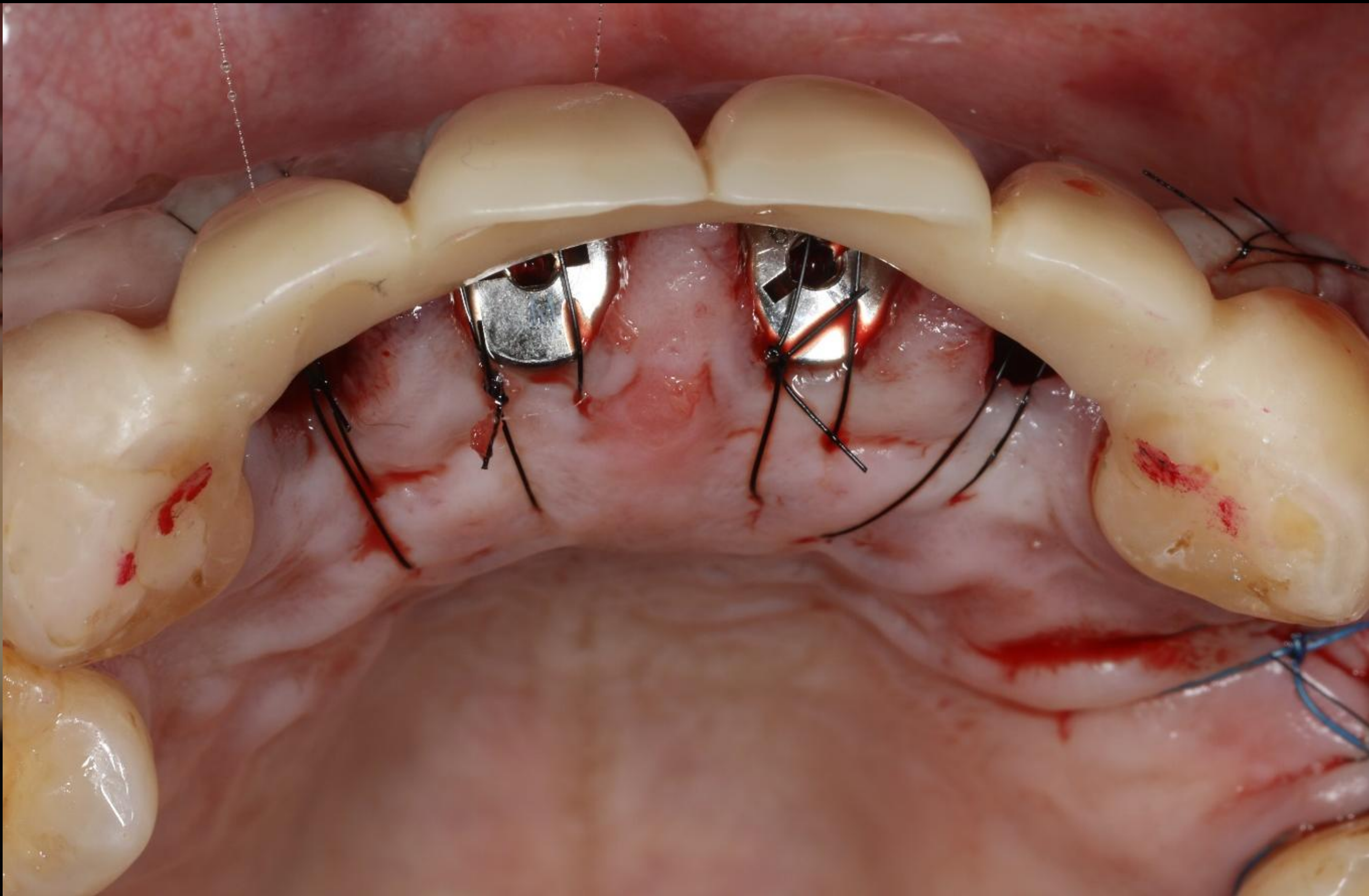
3D Printing Model / Milling Stent



Maryland Bridge



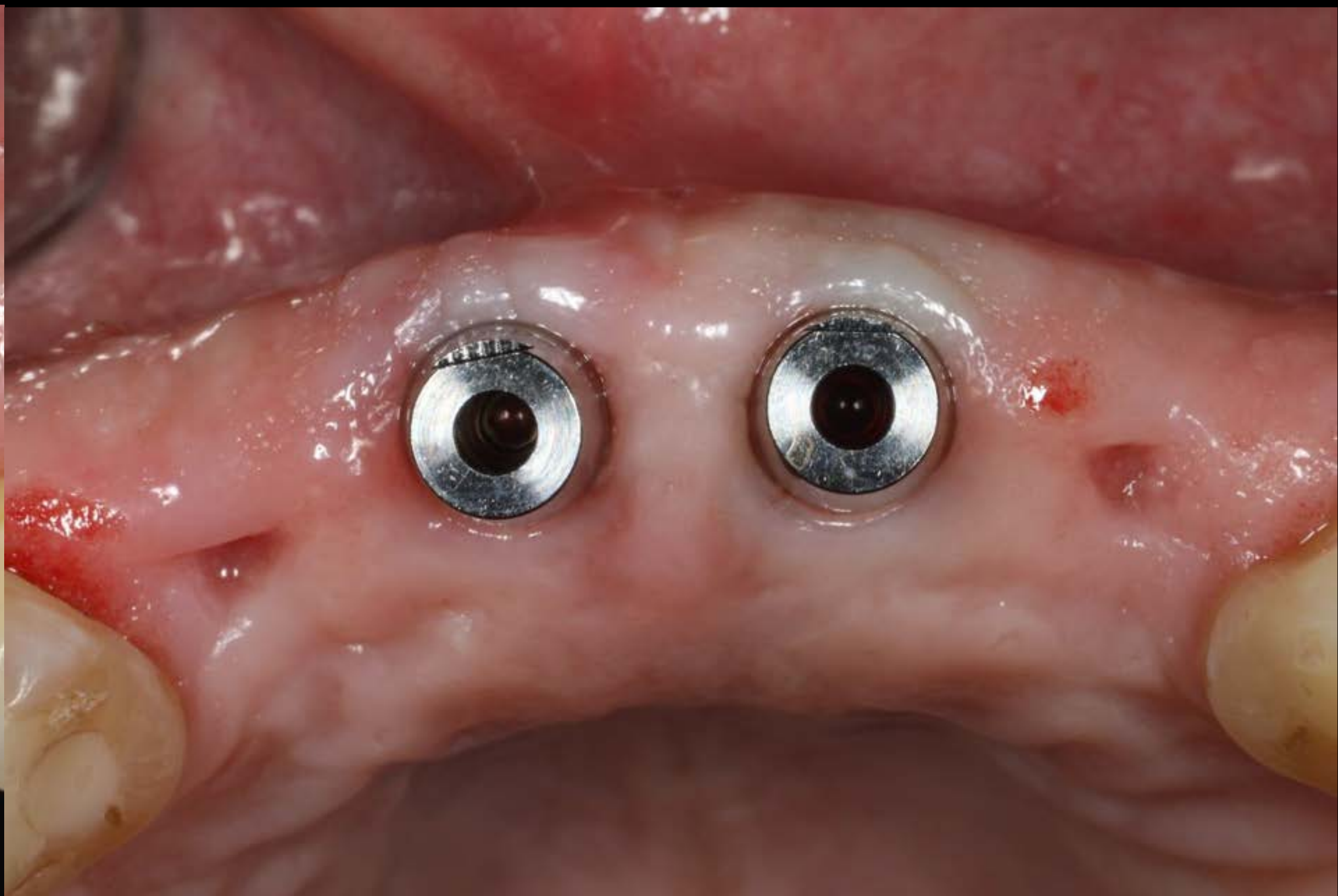
Post-op

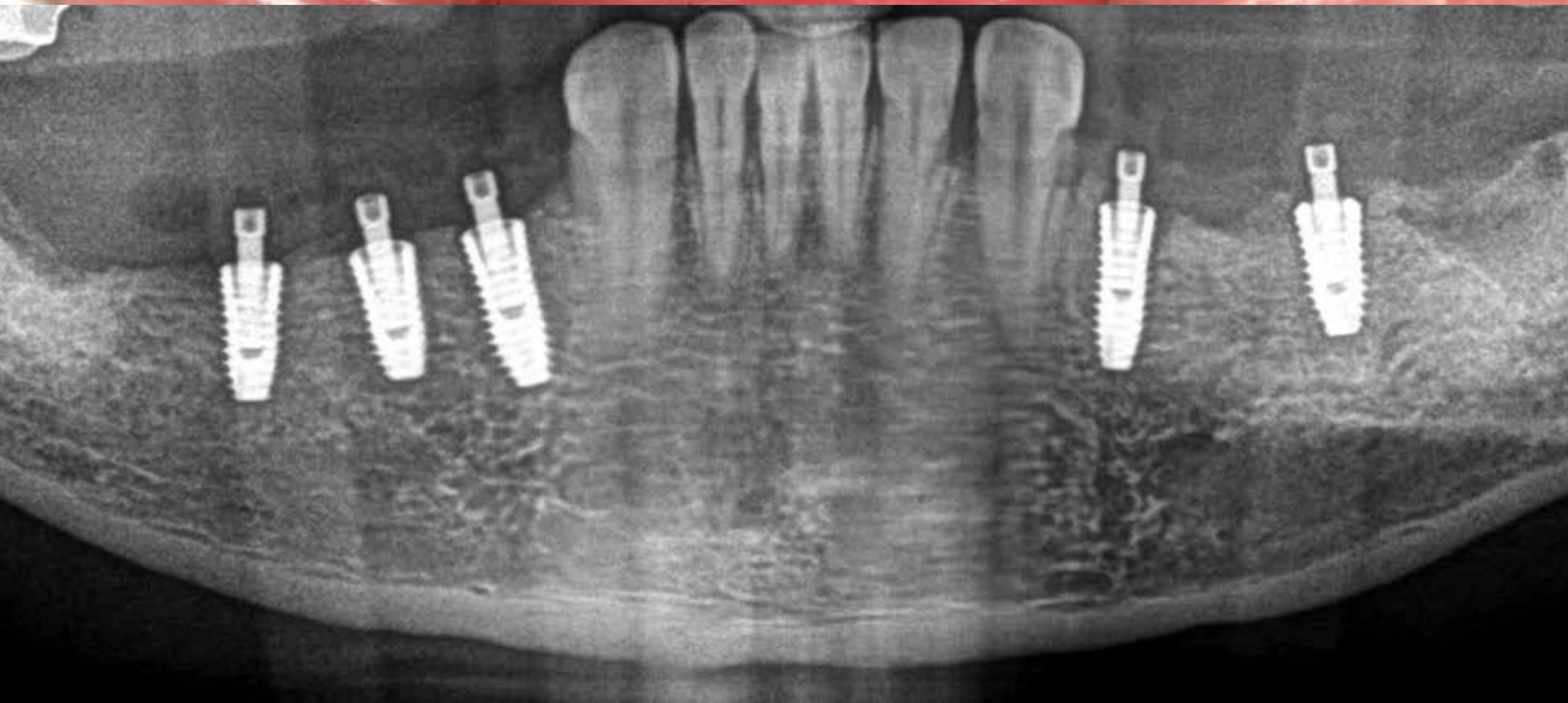
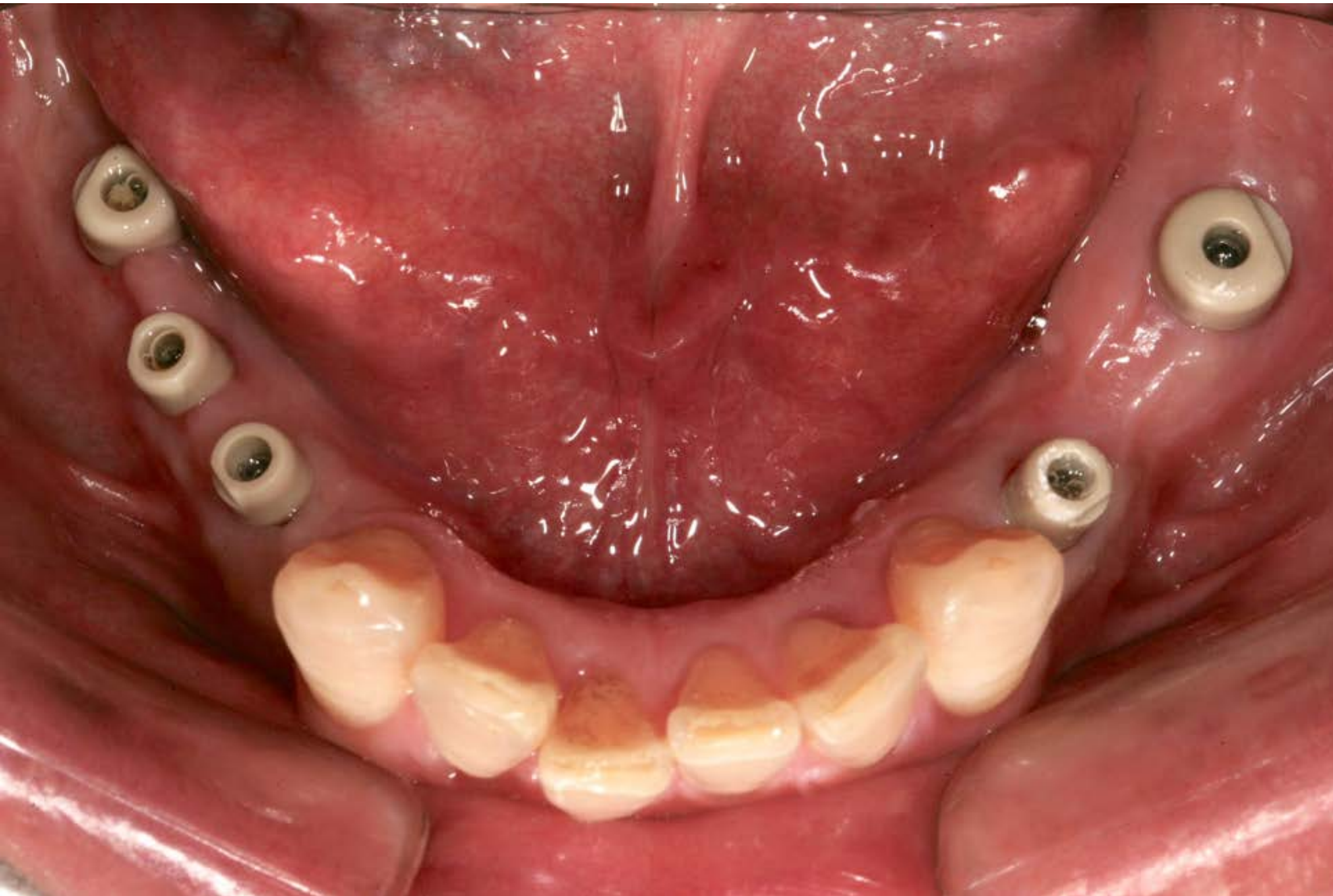


Healing : 1 week

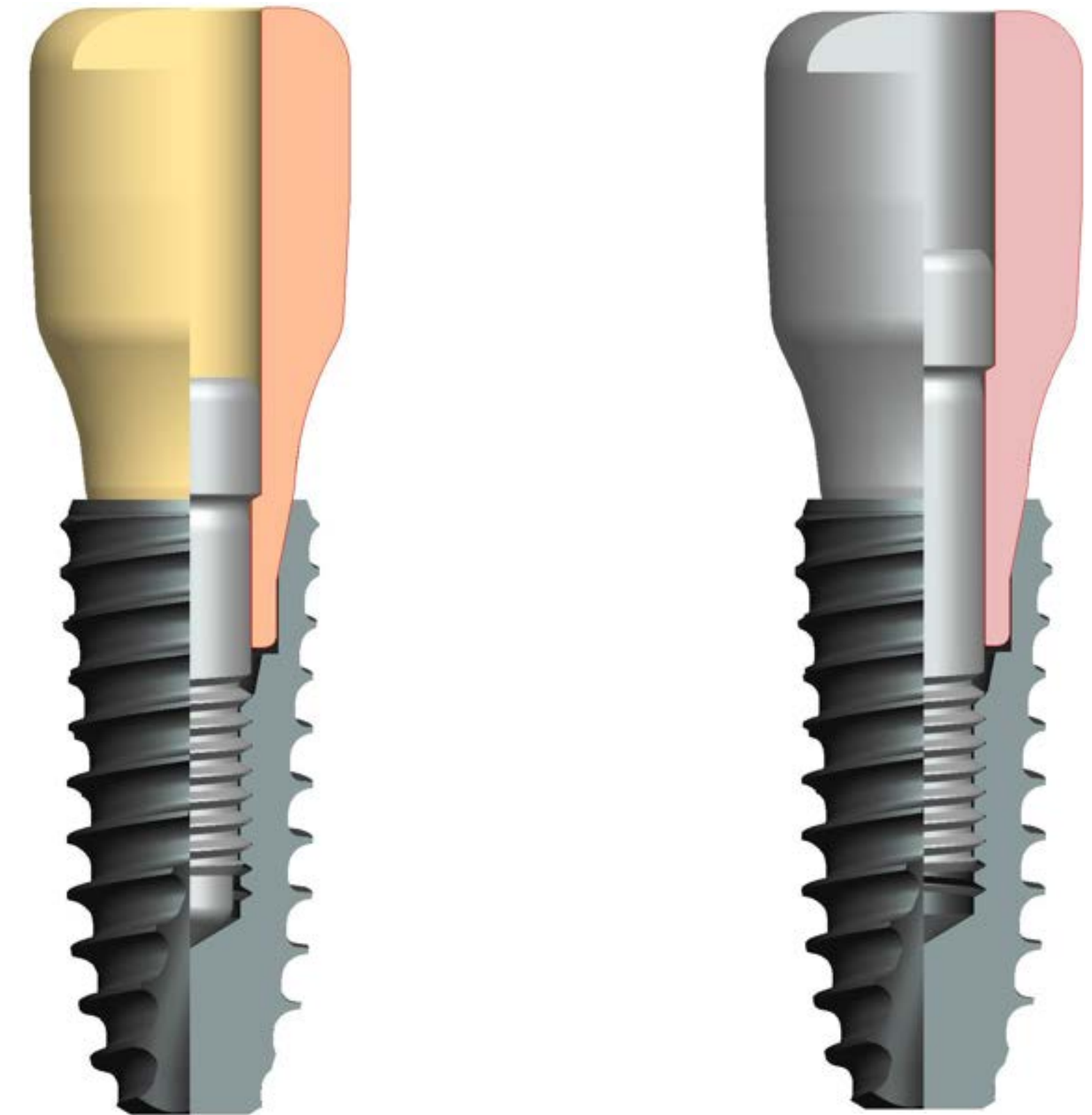


Healing : 5 weeks





Scan Abutment

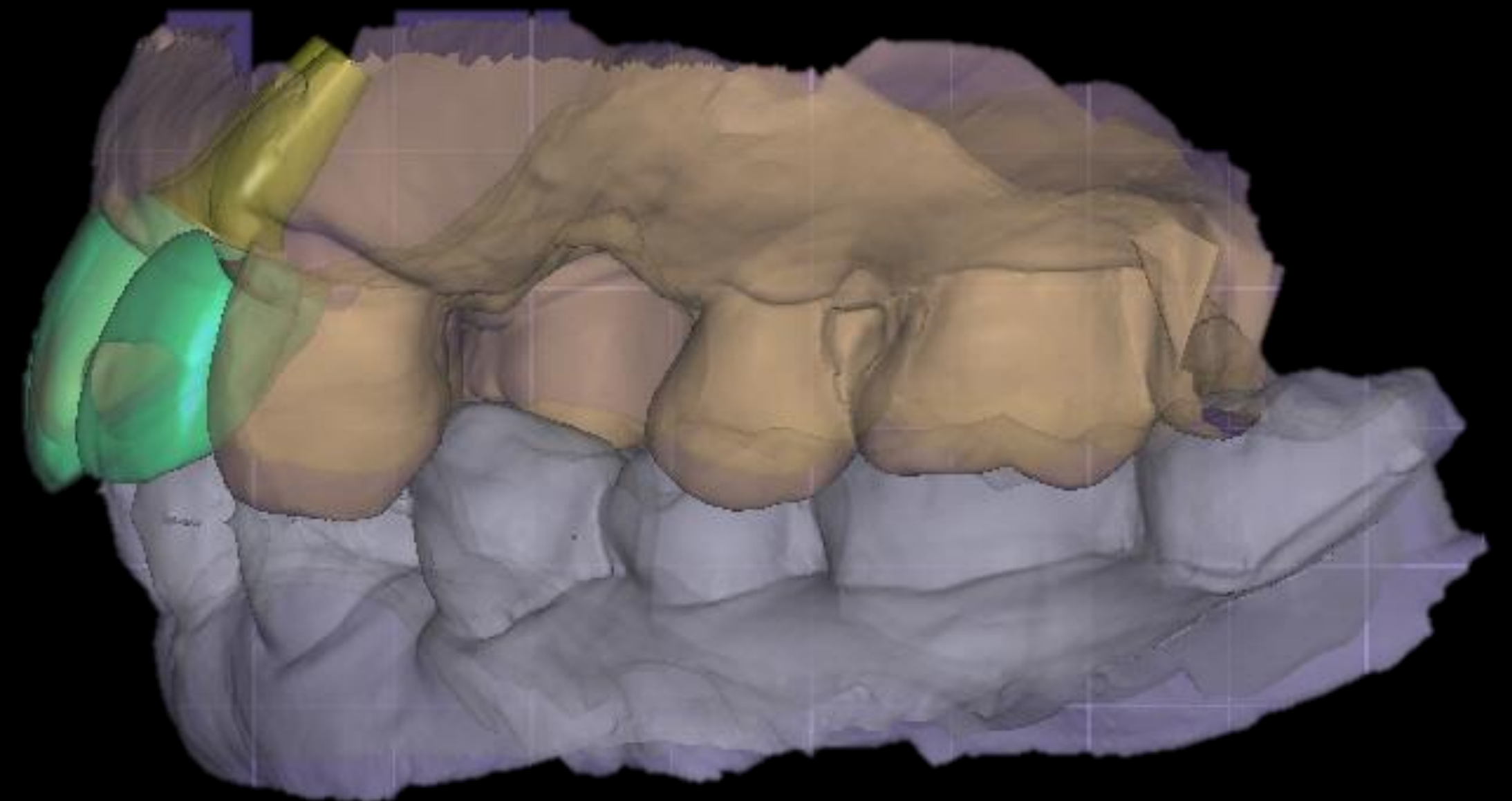
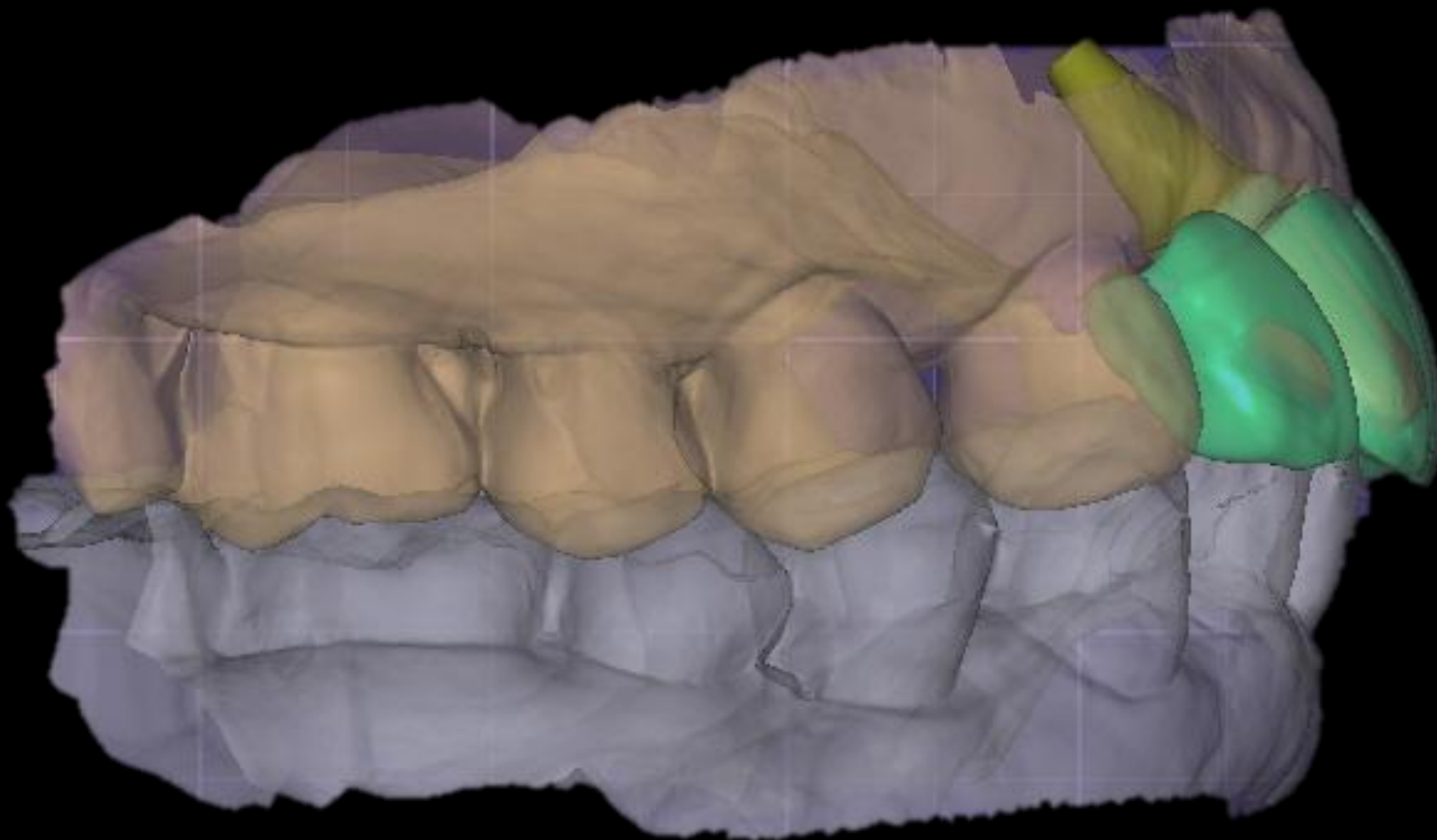
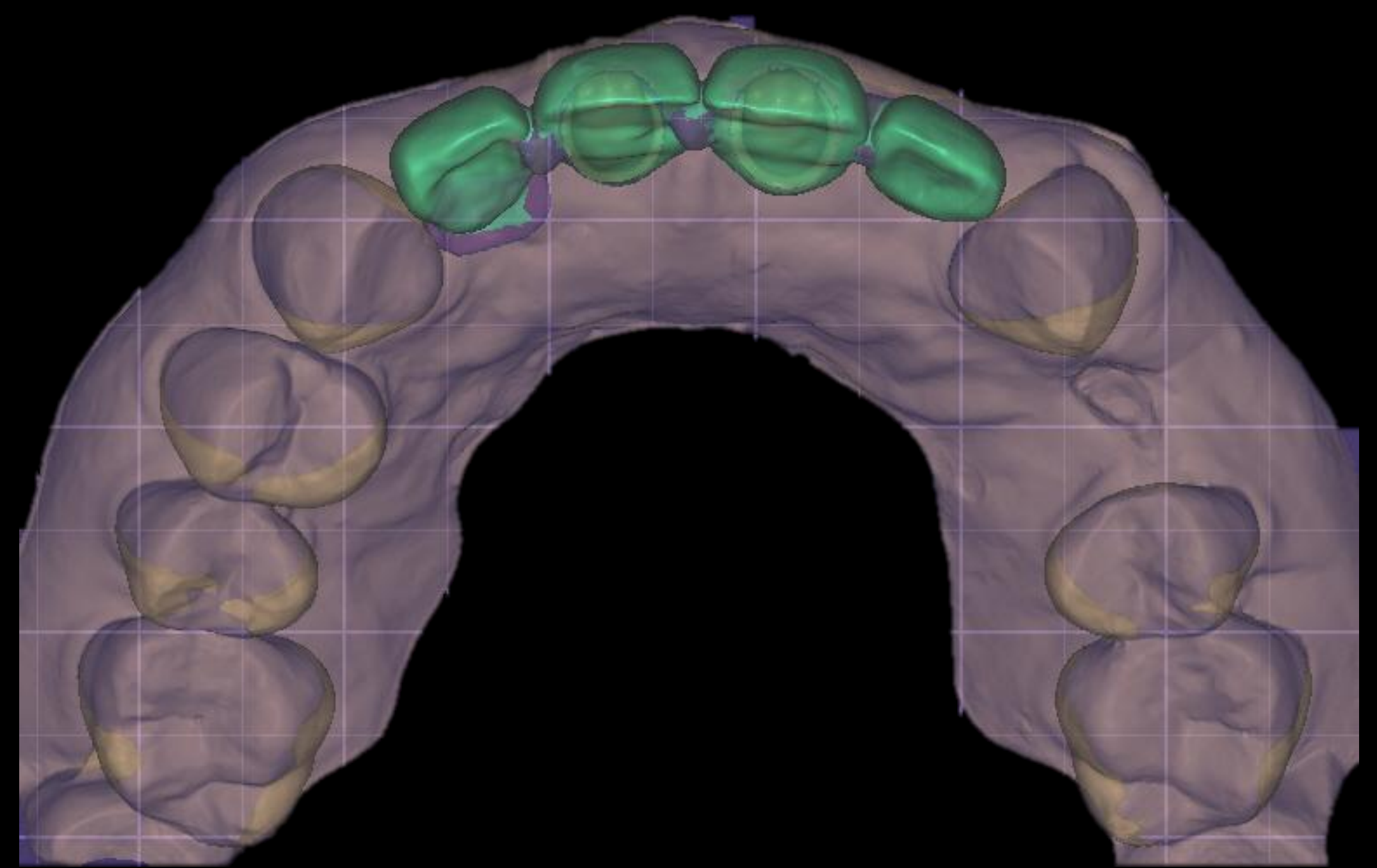
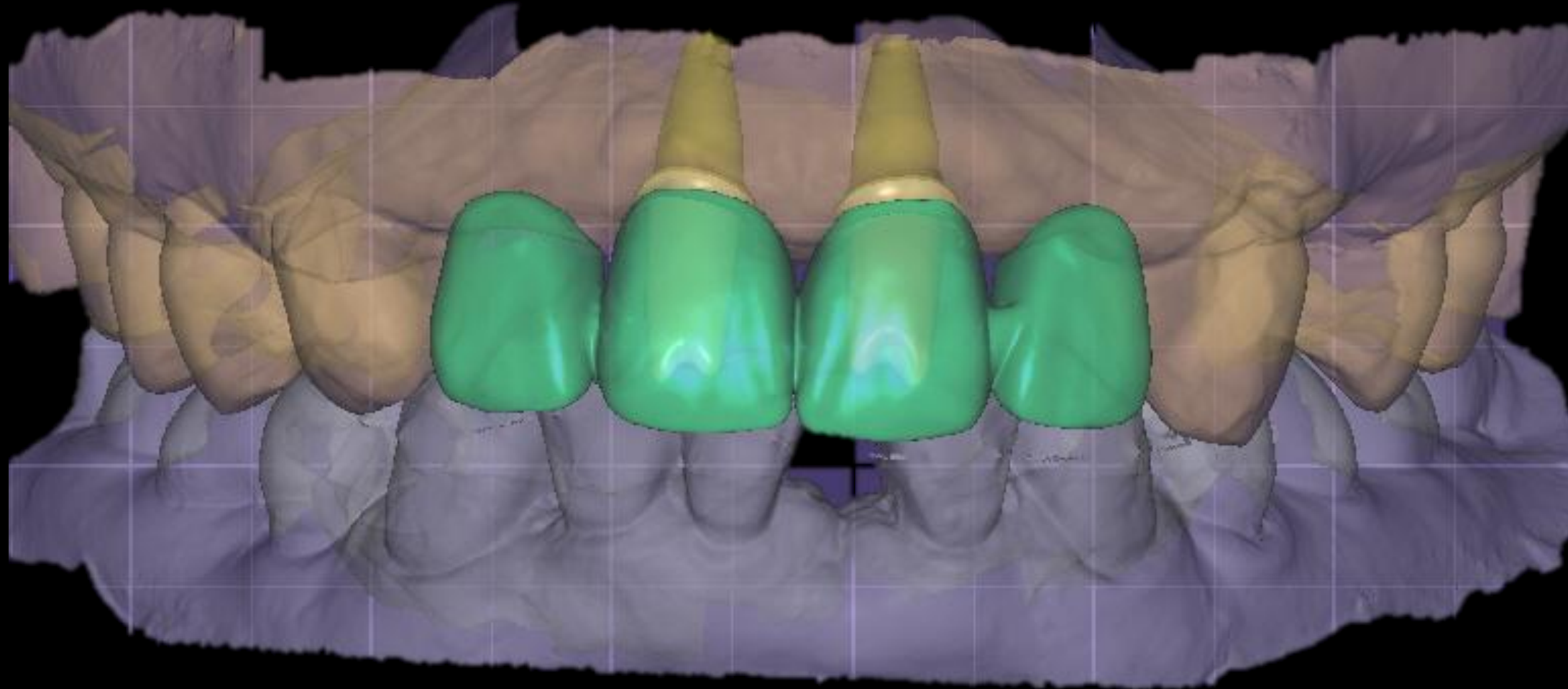


Impression and scan abutment
Polymer or metal

Intra Oral Scanning for temporary



CAD Design (Customized abutment, Temporary)



Provisional restoration



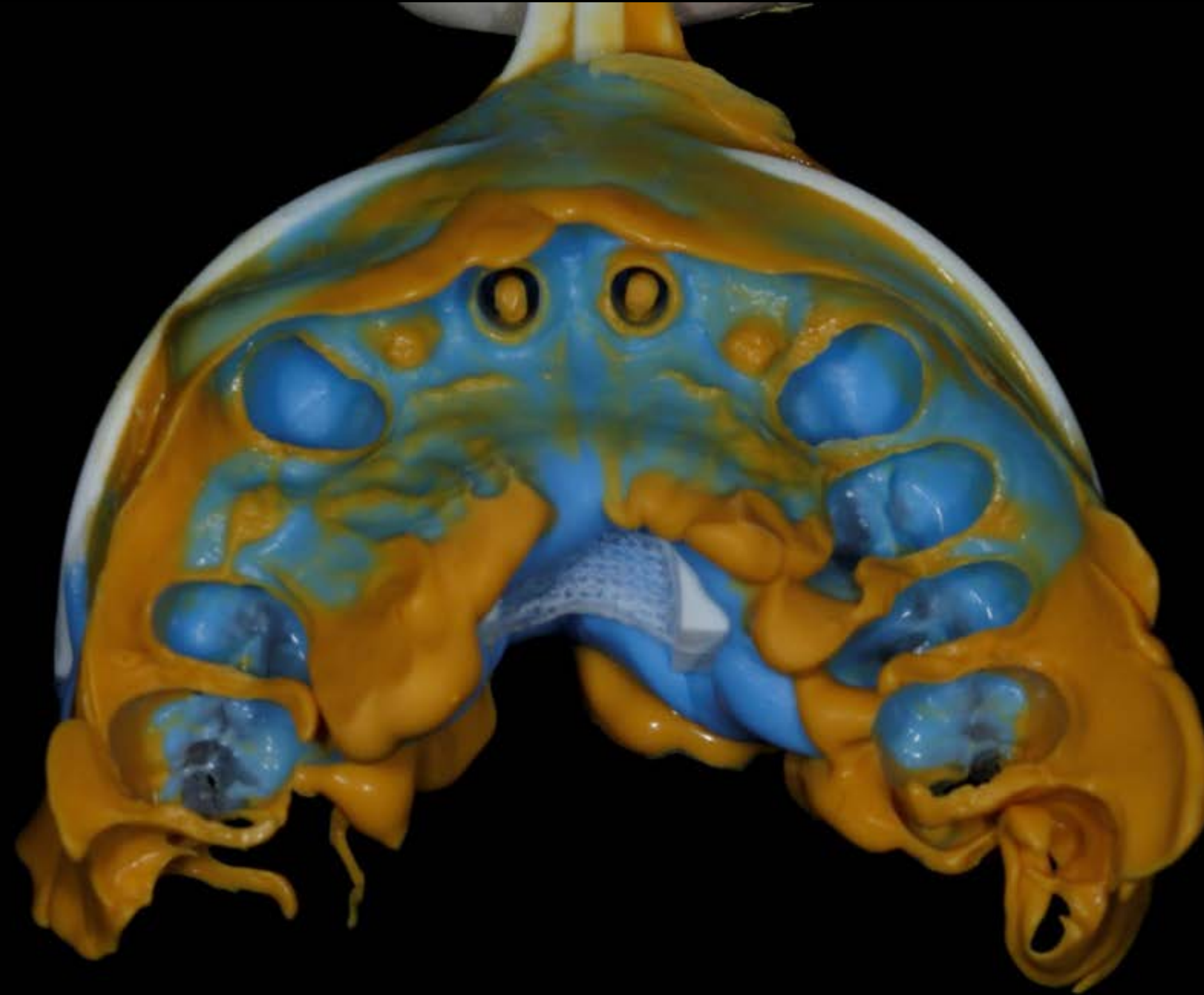
Impression



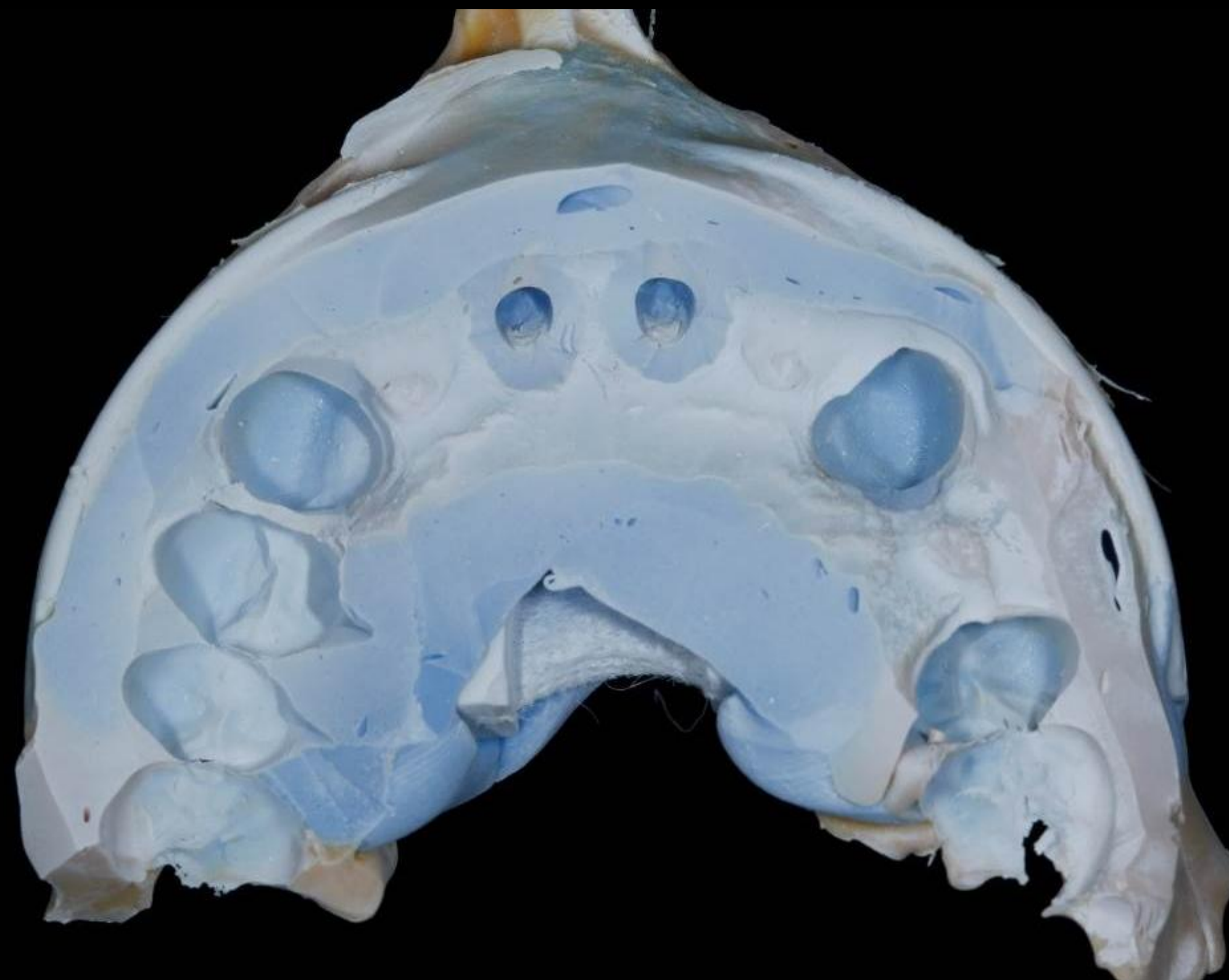
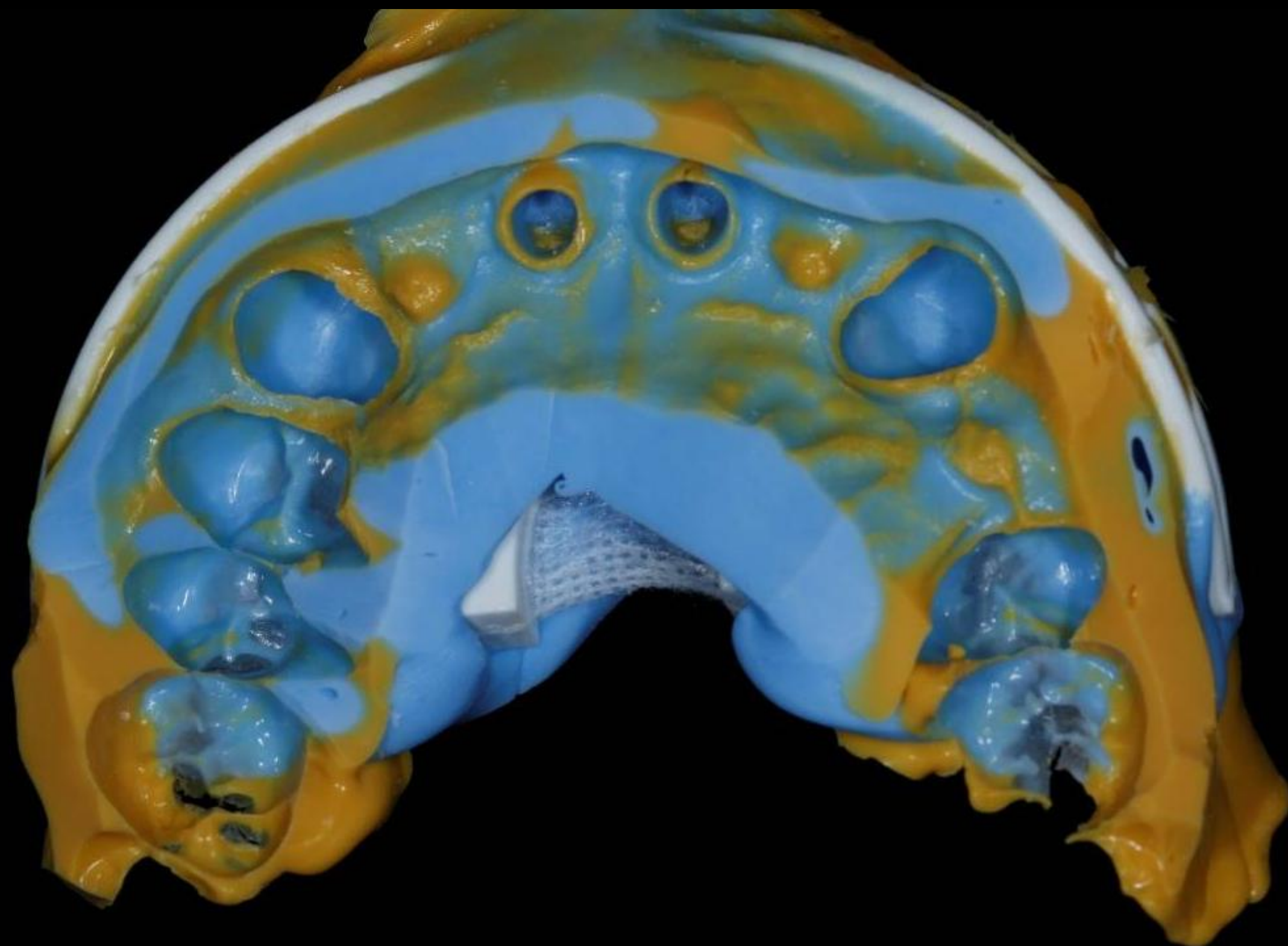
Bite Tray Impression for Final prosthesis

Upper arch
Lower arch
Check bite

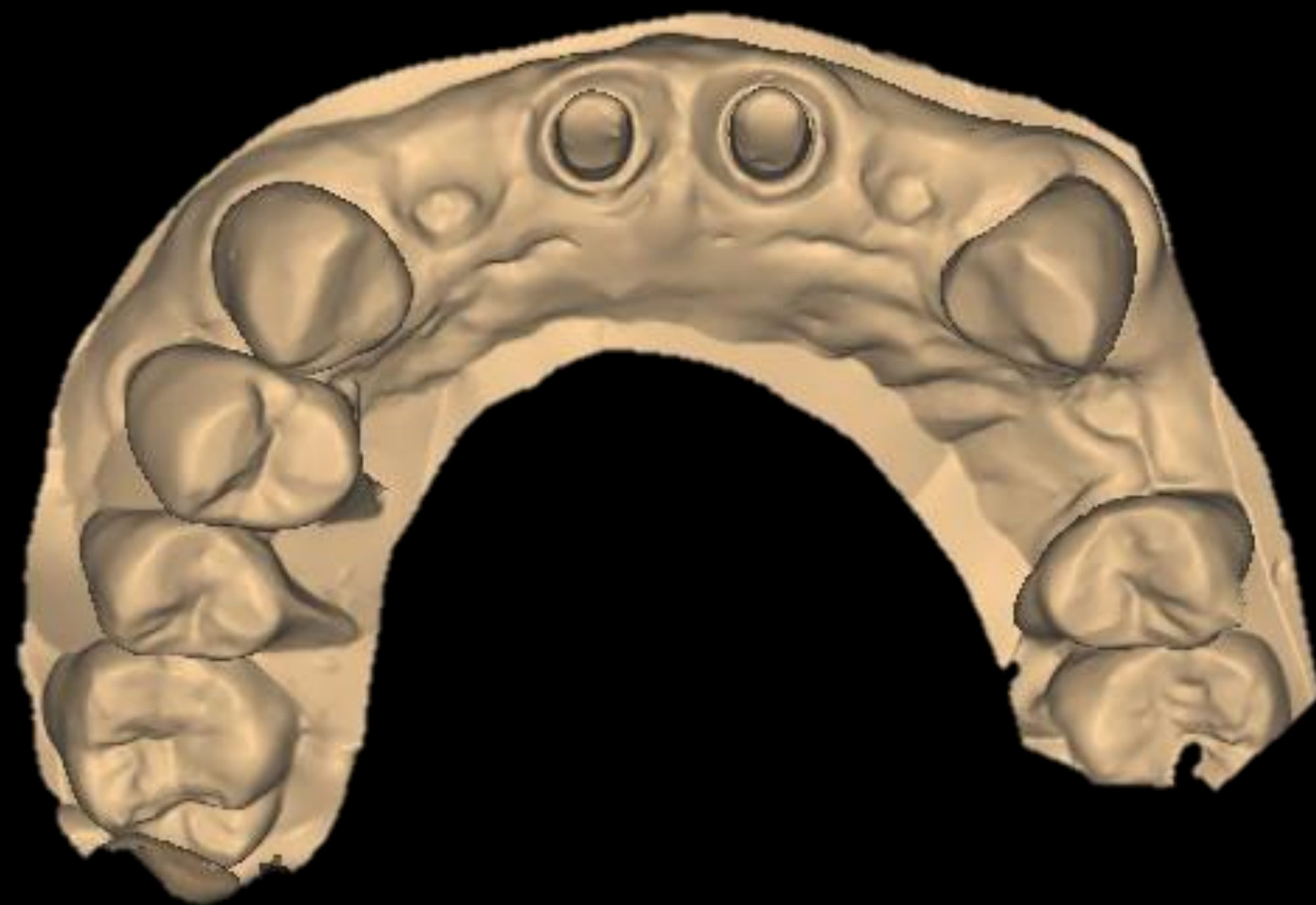
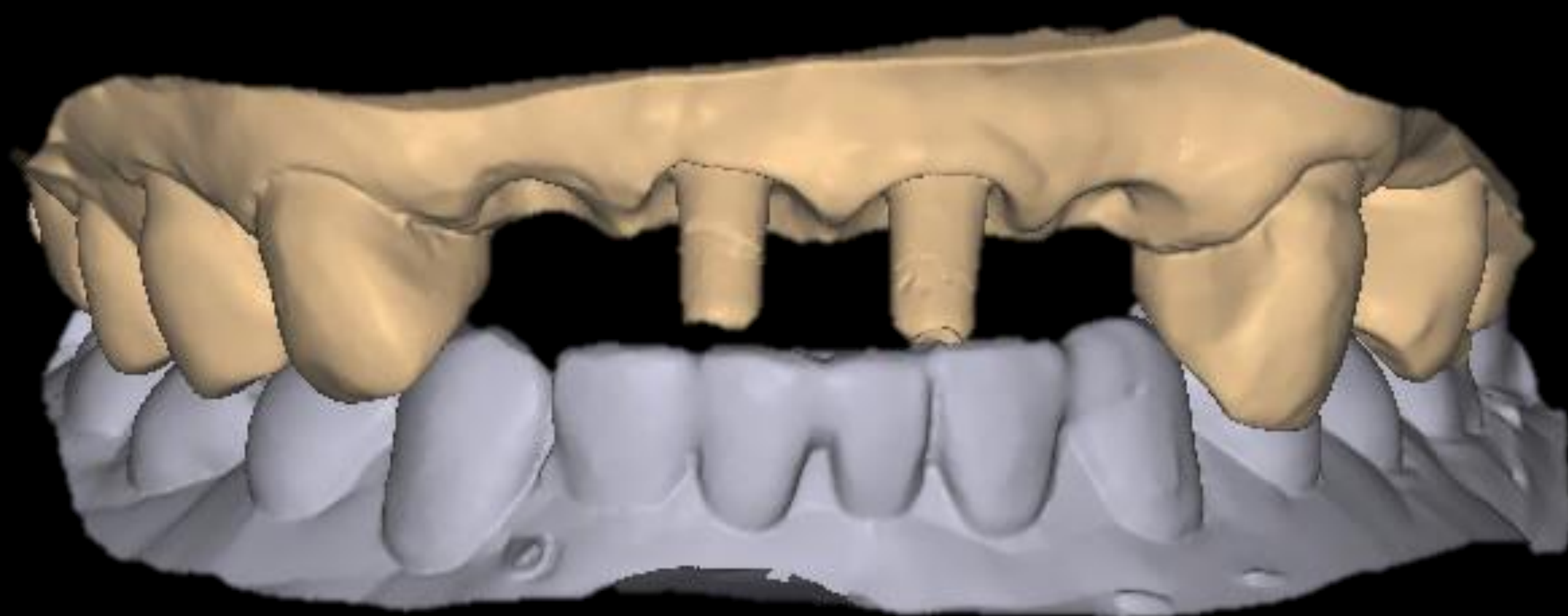
All



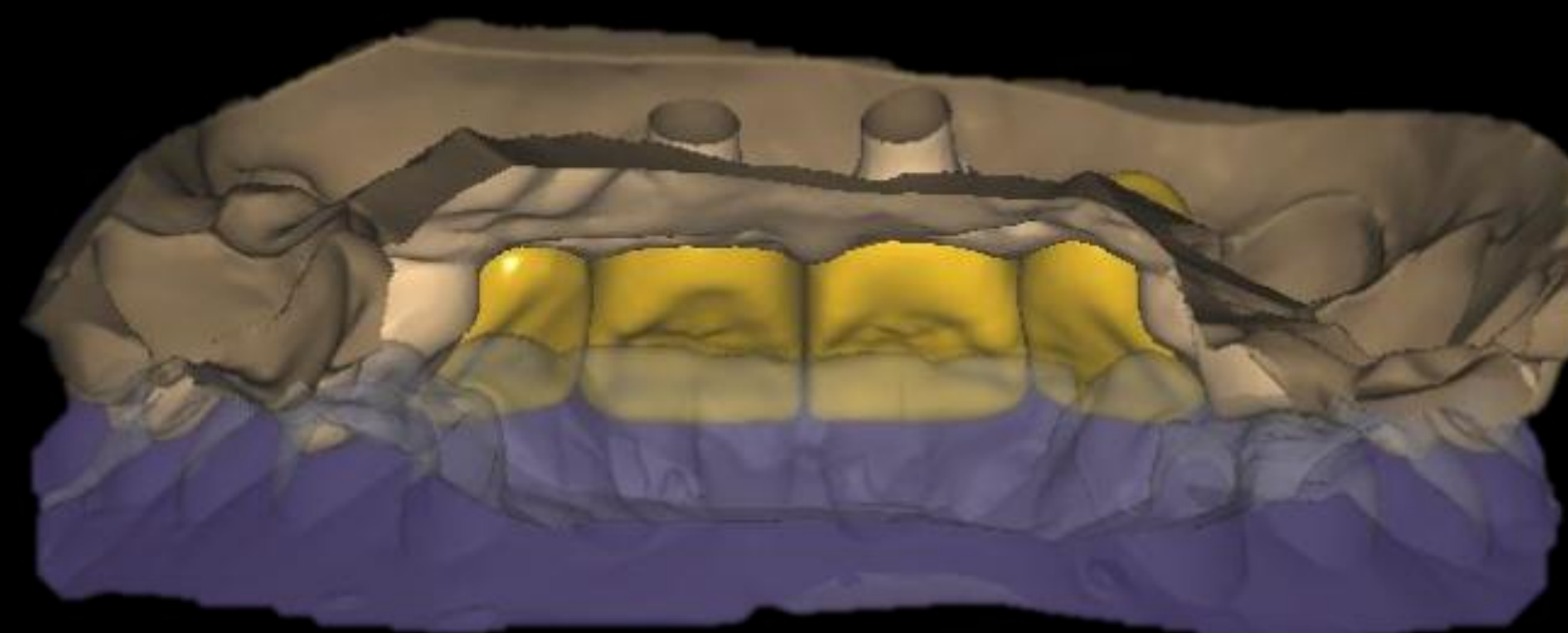
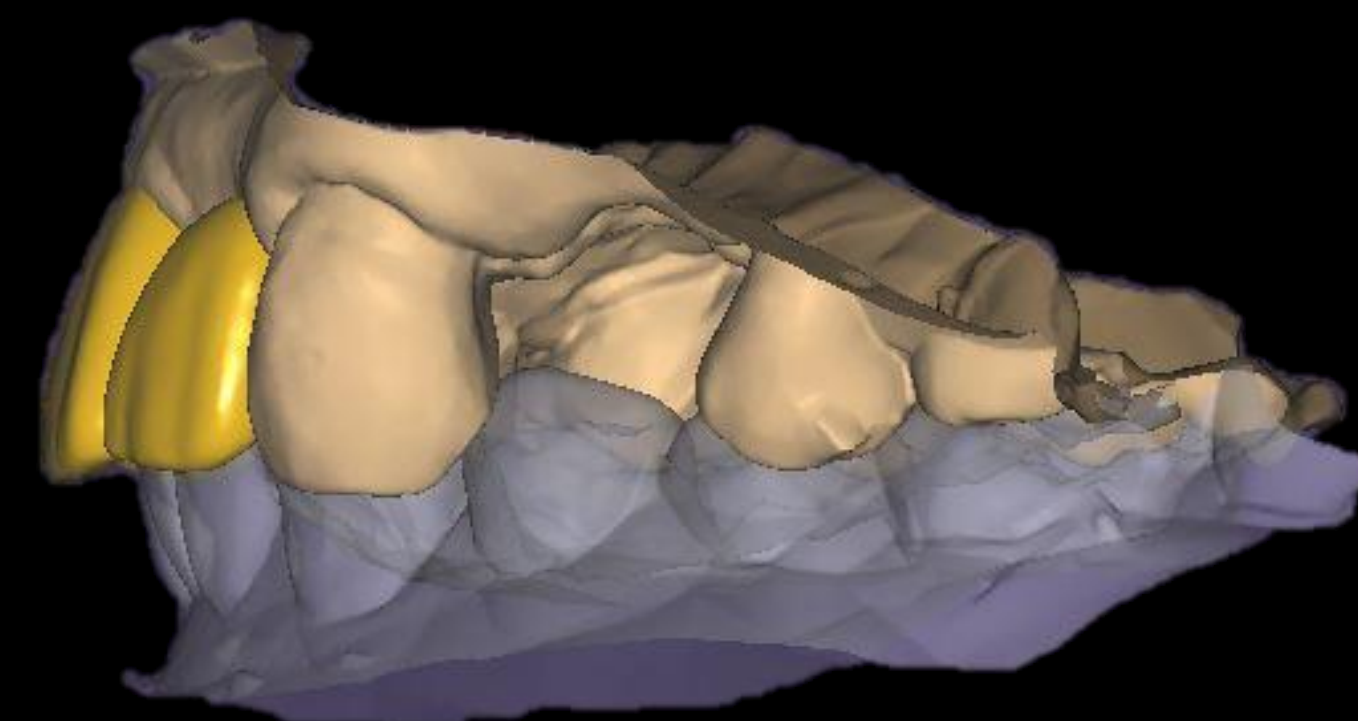
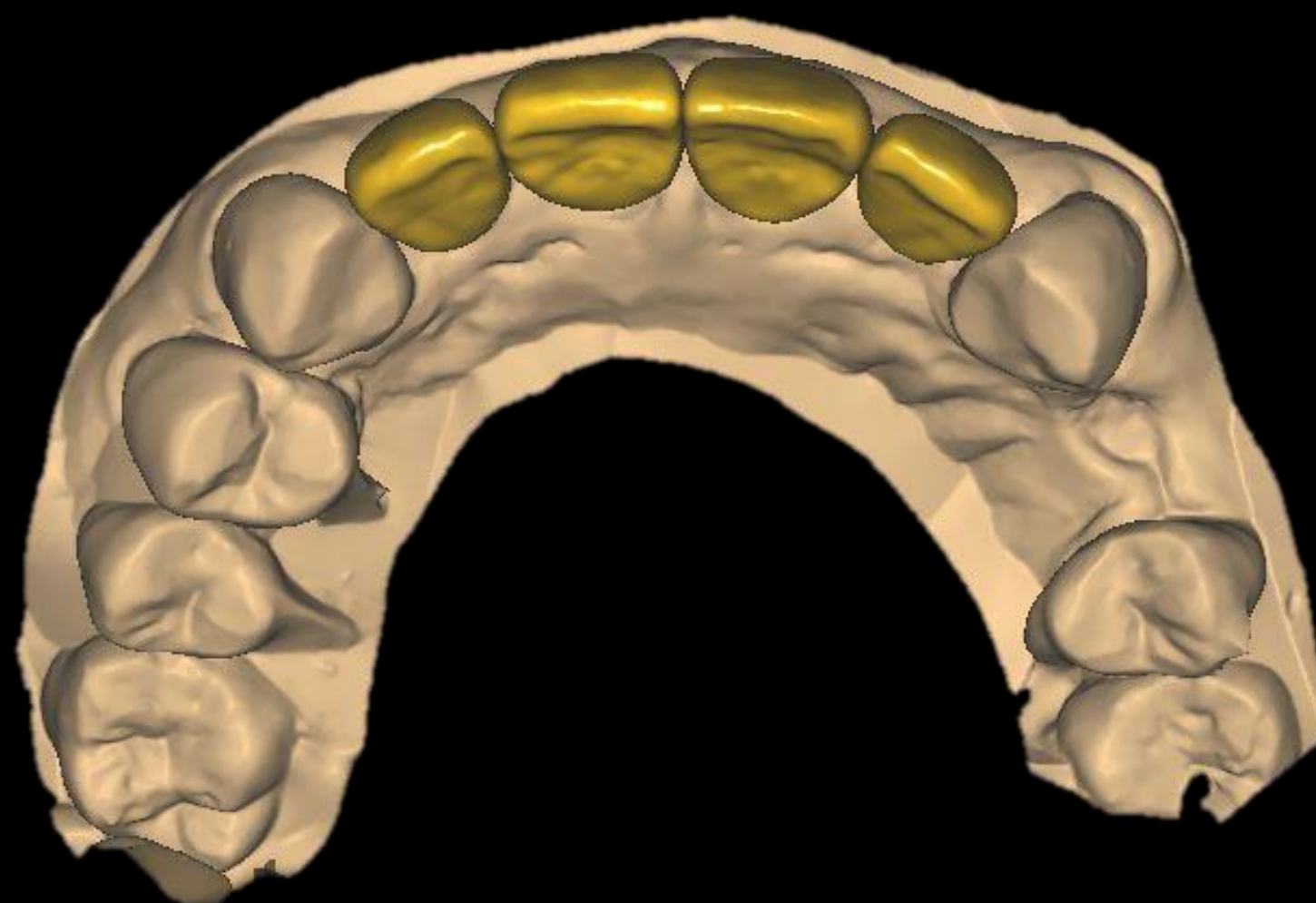
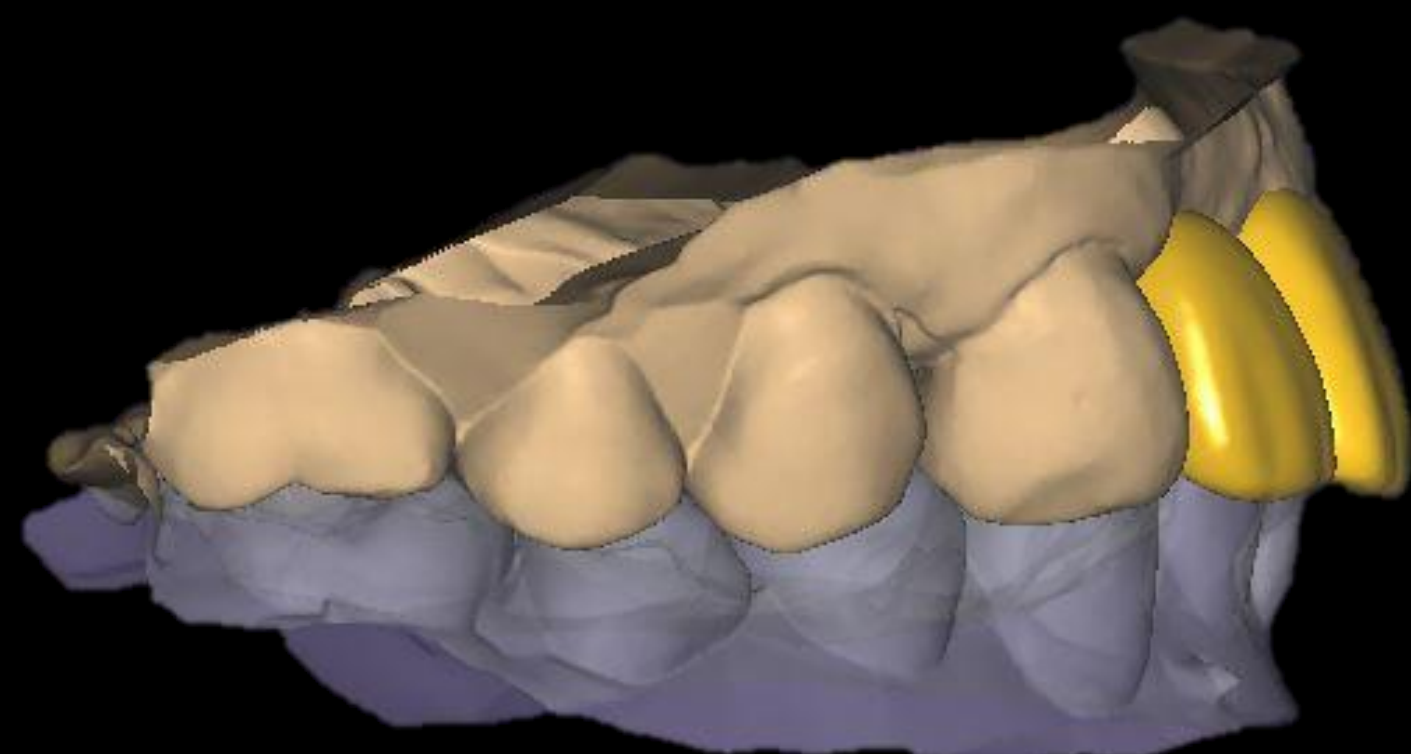
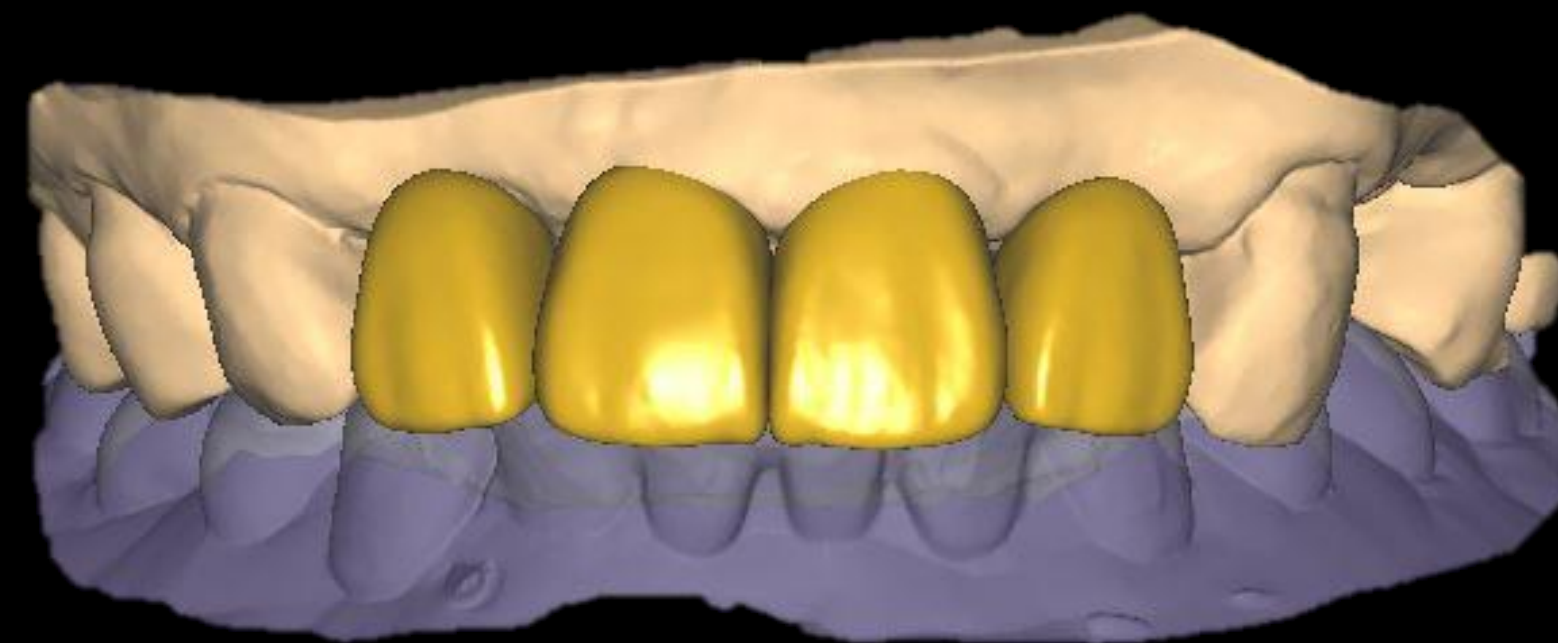
Impression / Trimming
Powder spray for Impression scanning



Convert of impression scan into model in software



CAD Design for Final prosthesis
To follow from virtual set up



Milling



Sintering



Glazing



Final prosthesis



Digital work

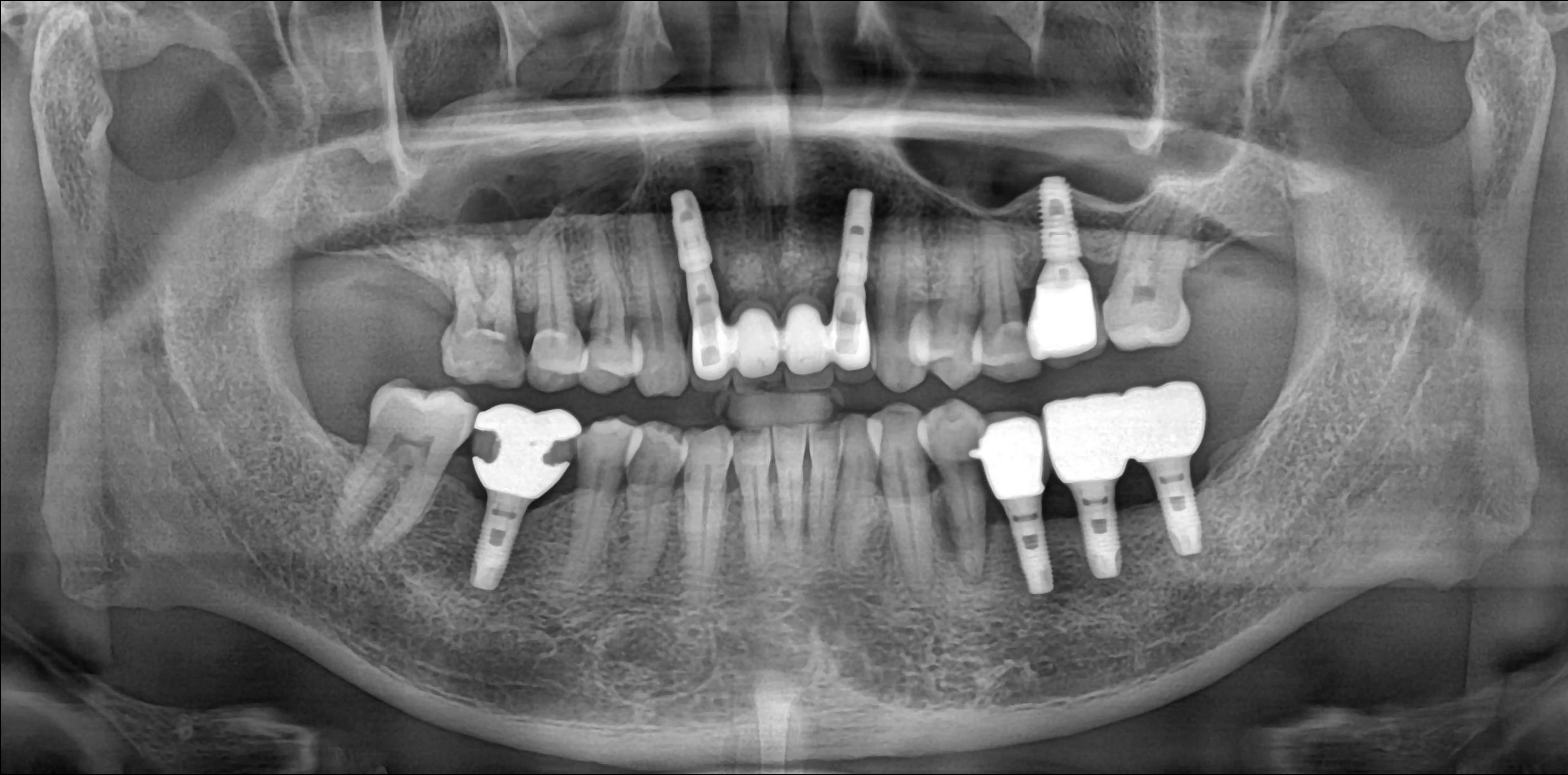
Digital guide

Custom abutment

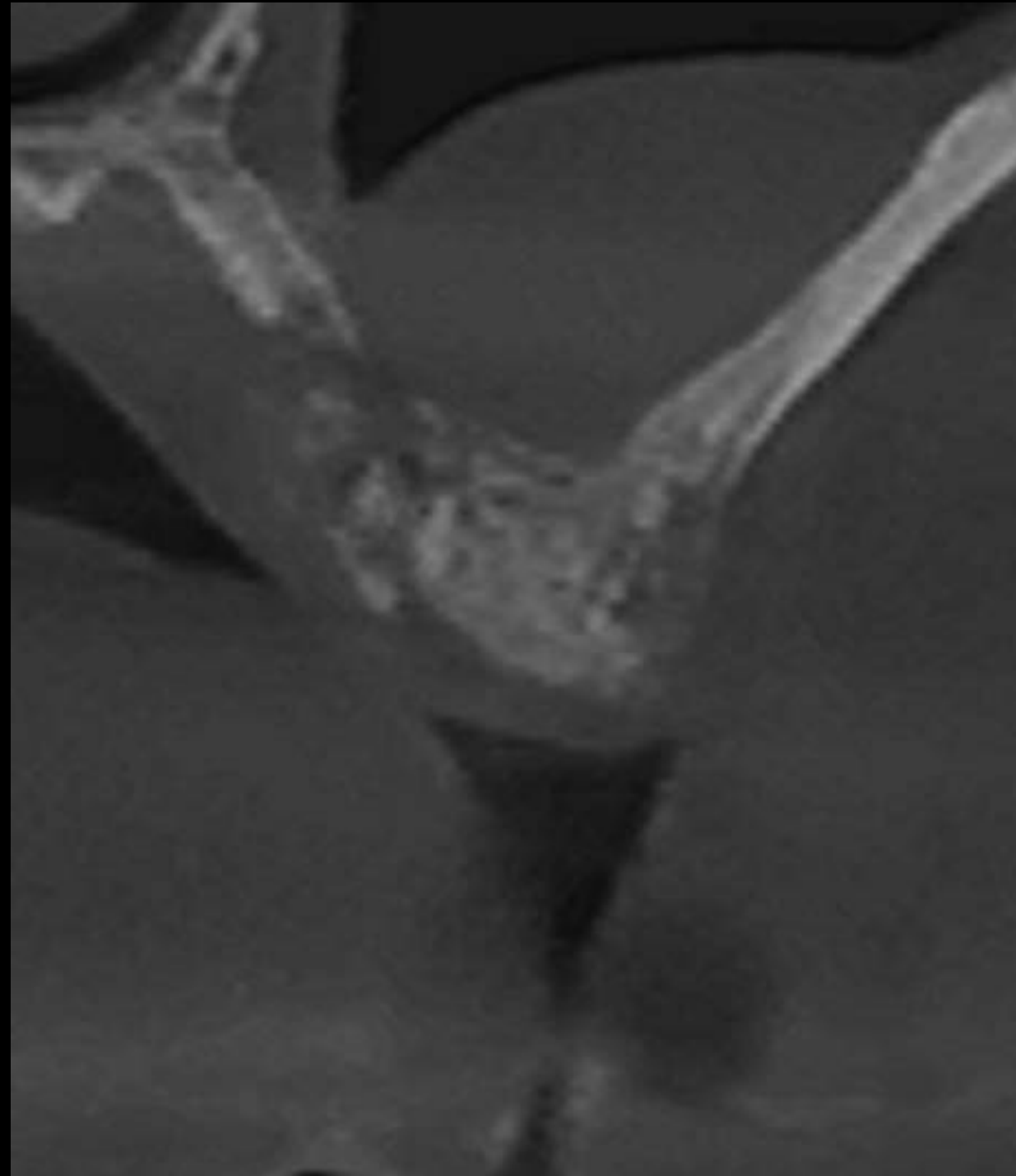
Temporary crown

Permanent crown

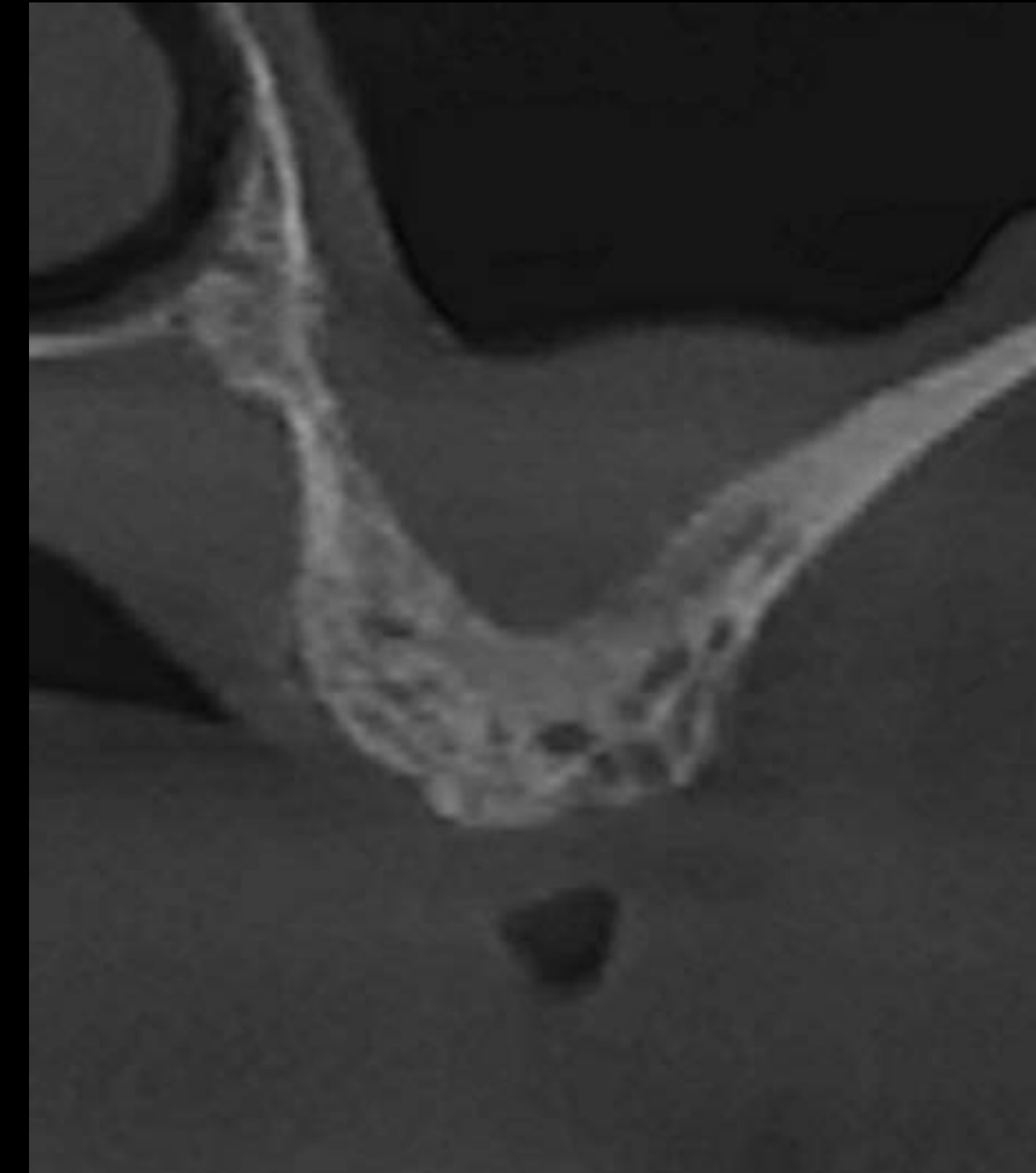
Pre-op (2024-02-02)



Pre-op CT (2024-07-20)



#16



#17

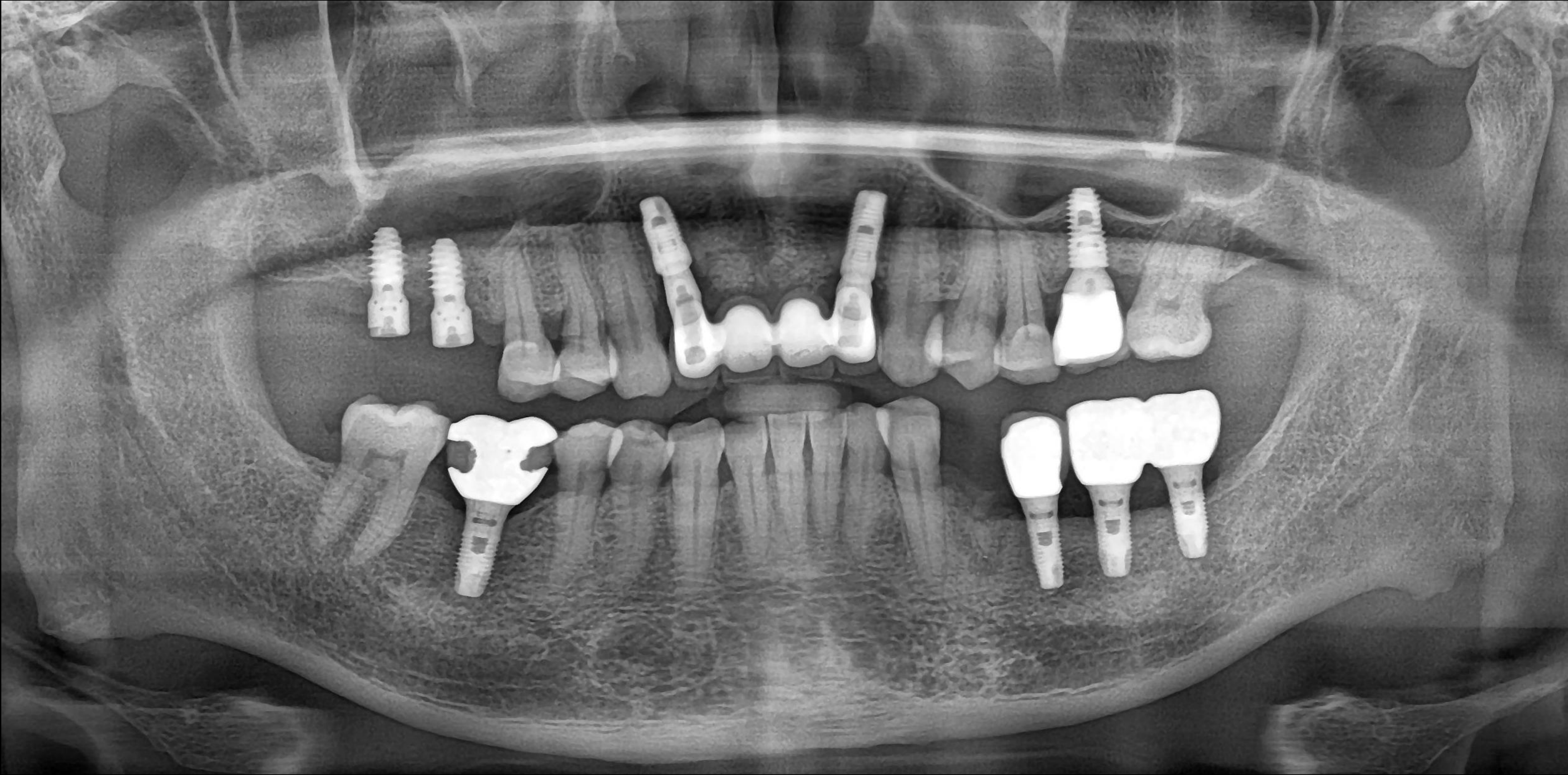


#16

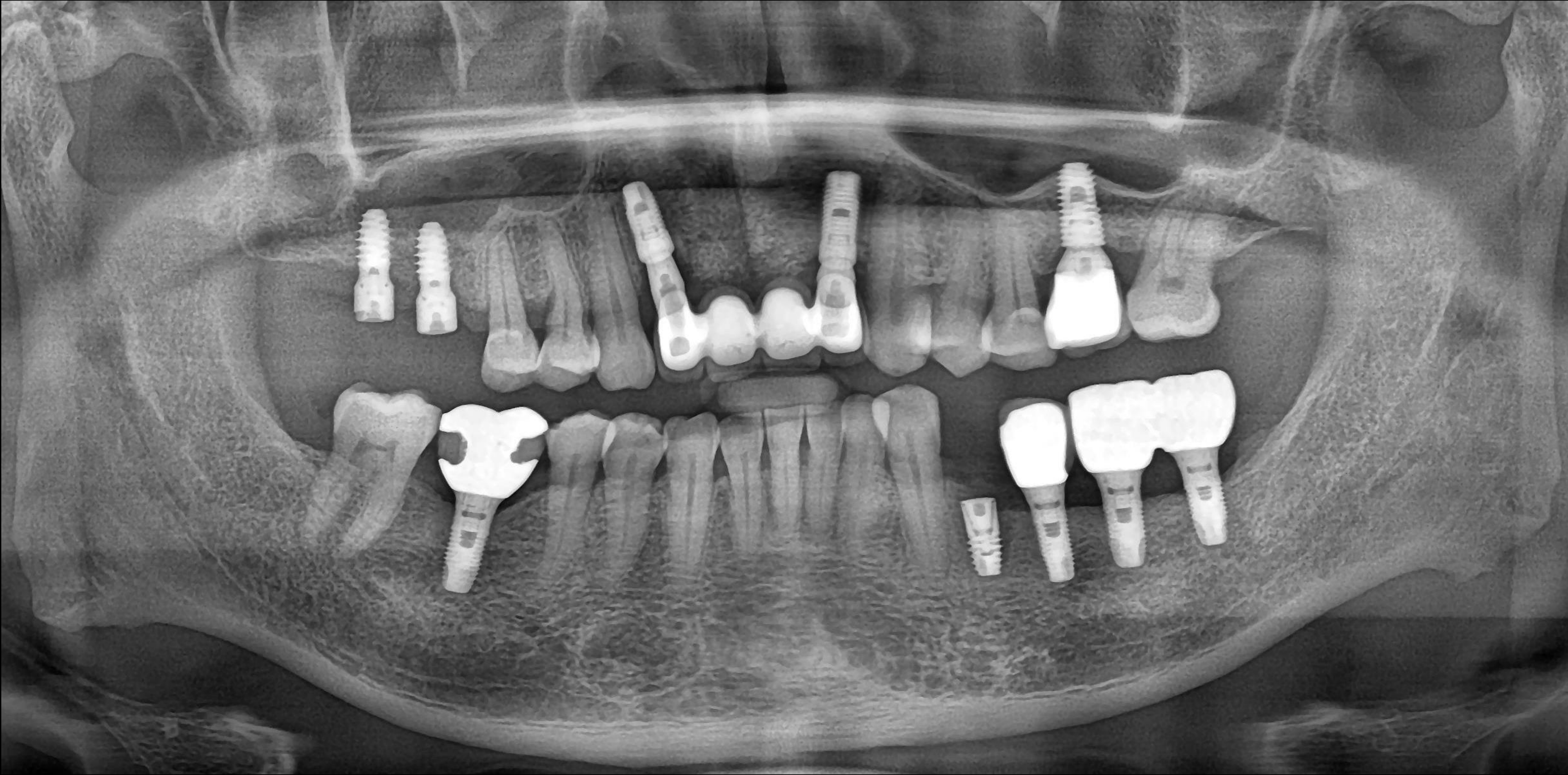


#17

Post-op (2024-08-13)



Healing : 2 weeks (2024-08-20)



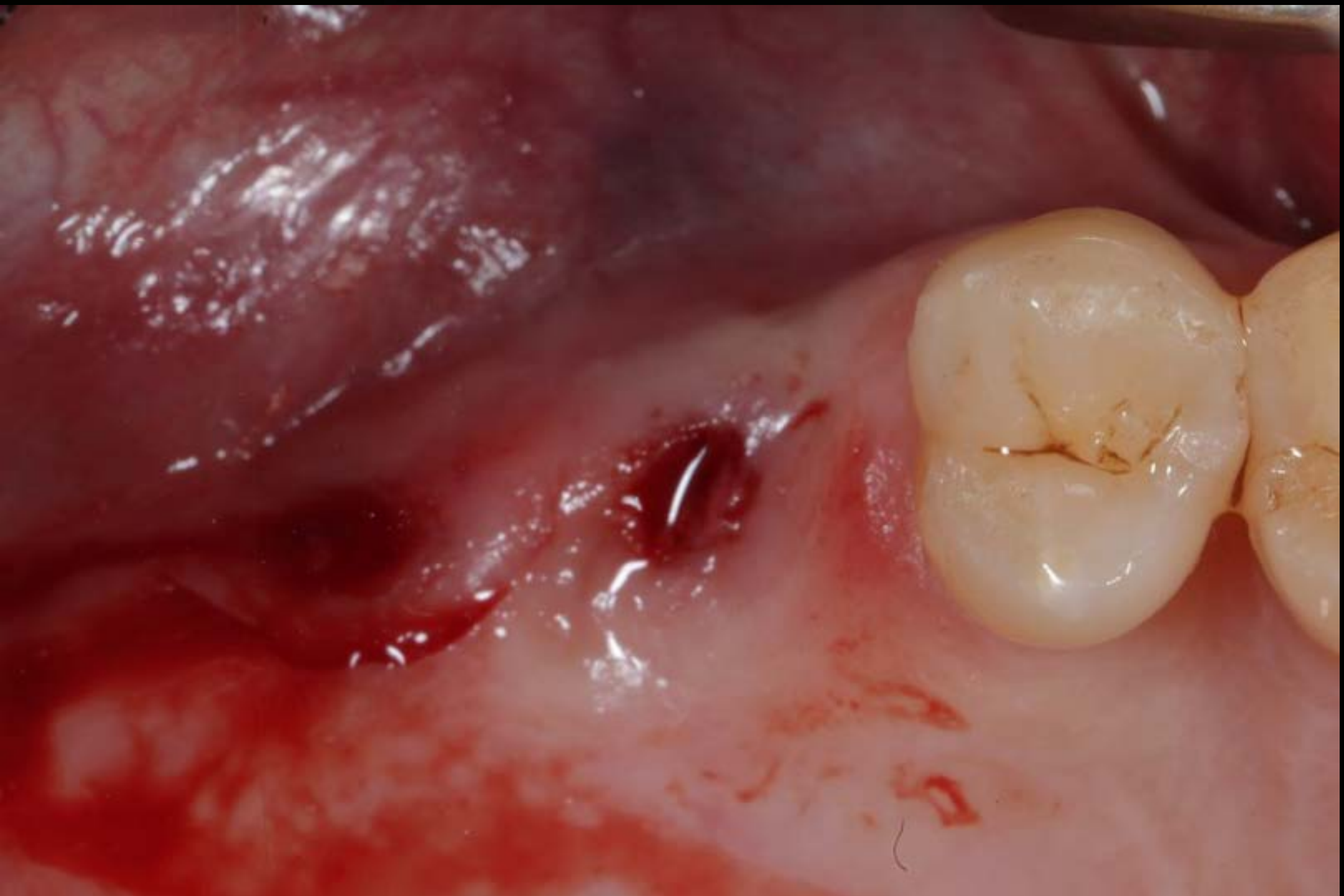
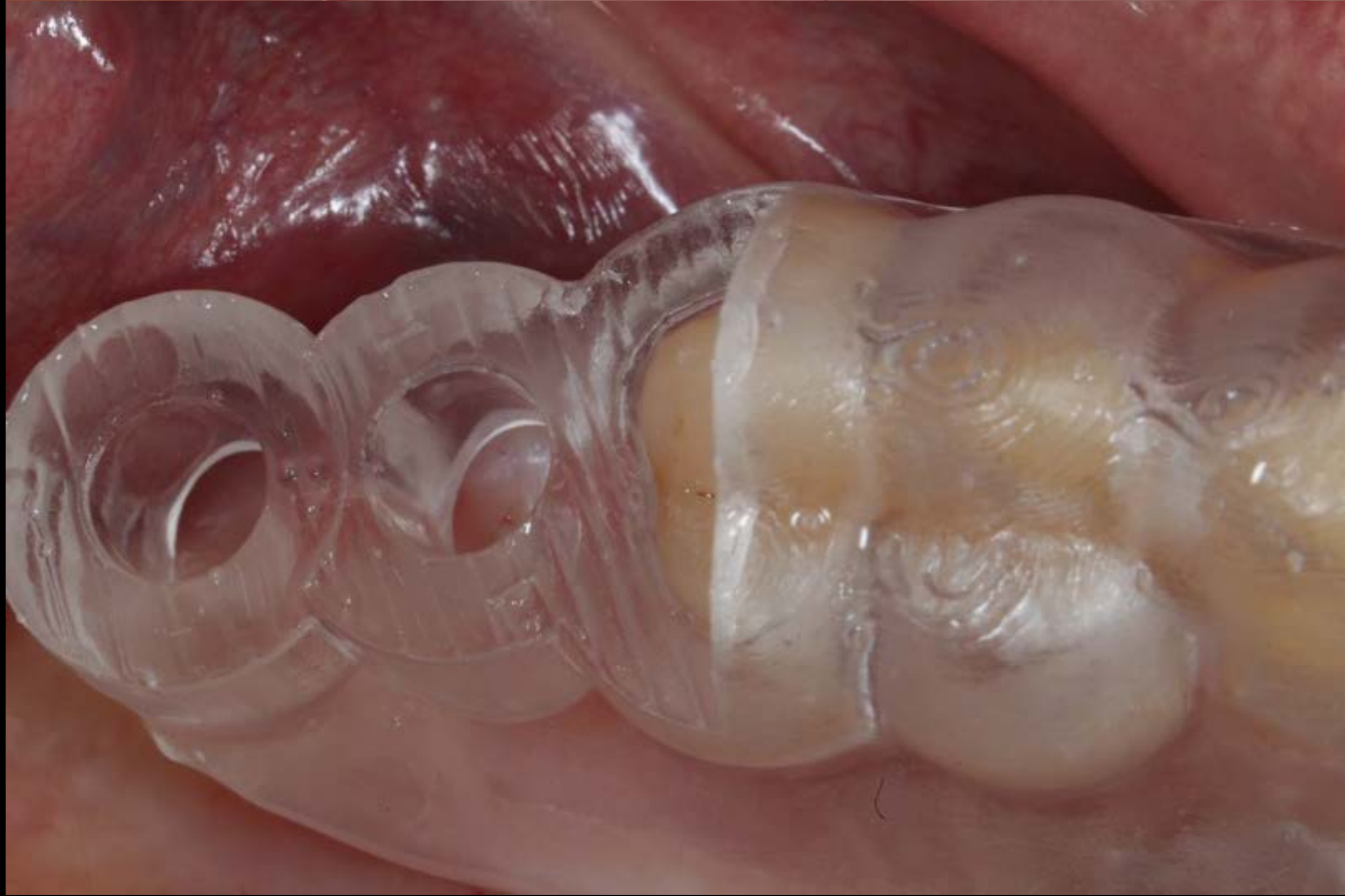
Pre-op(2024-08-02)



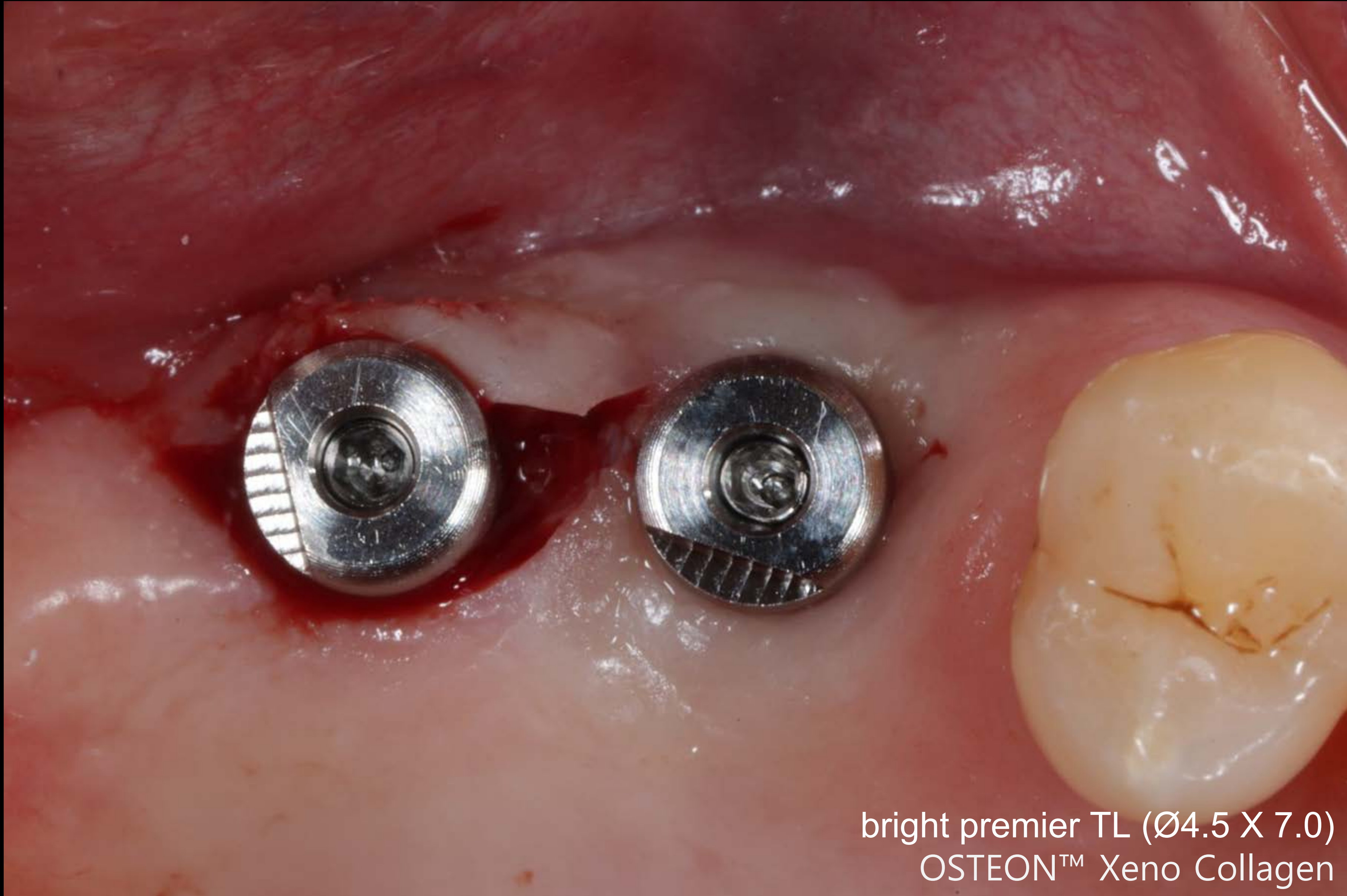
Surgery (2024-08-02)



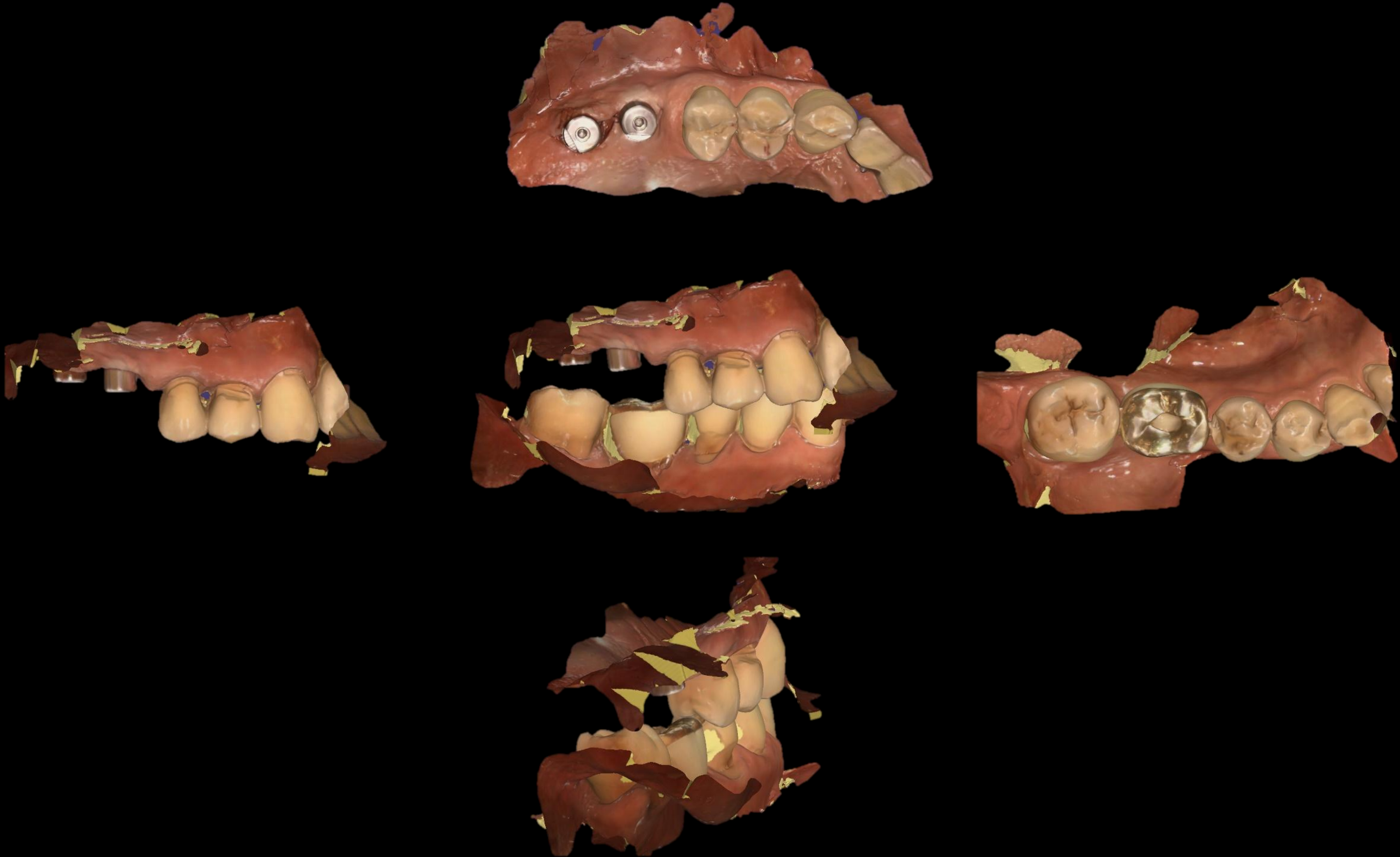
Digital guide



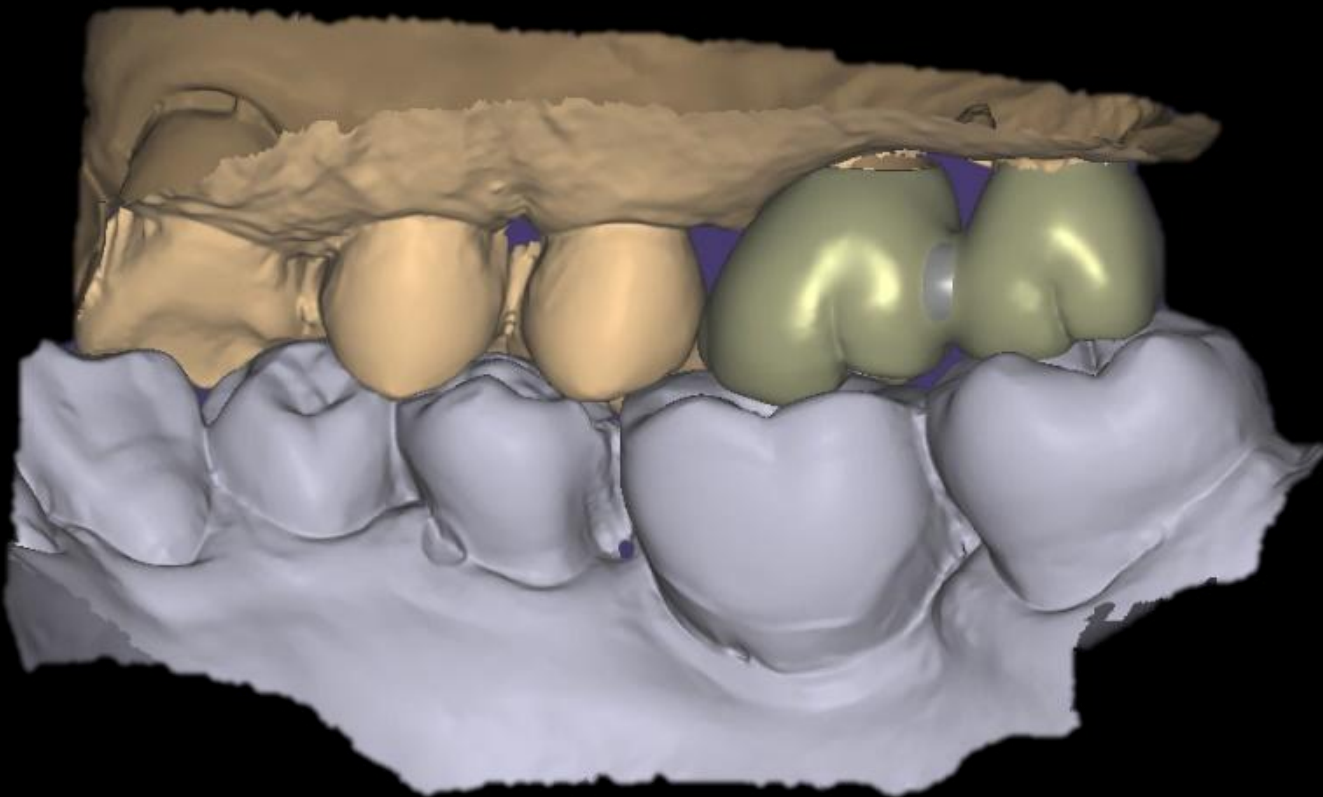
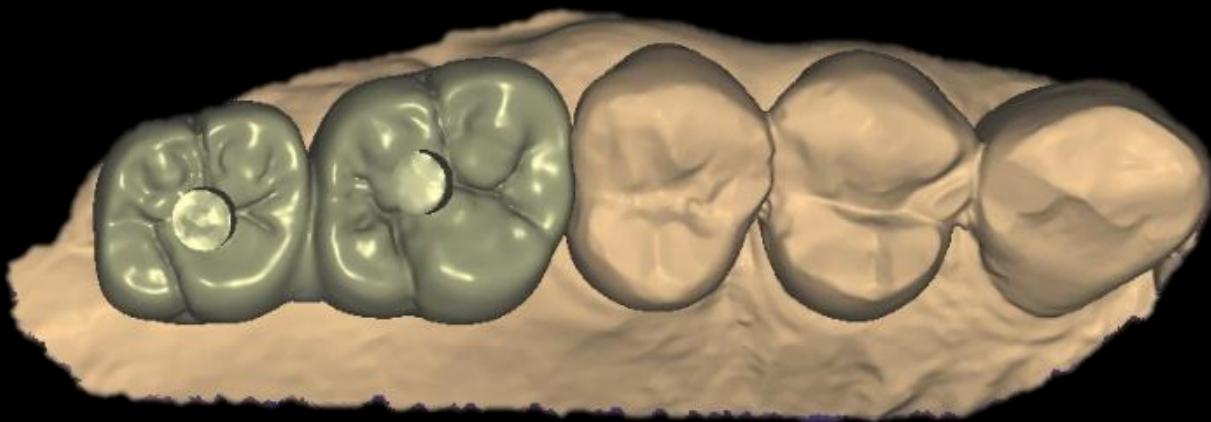
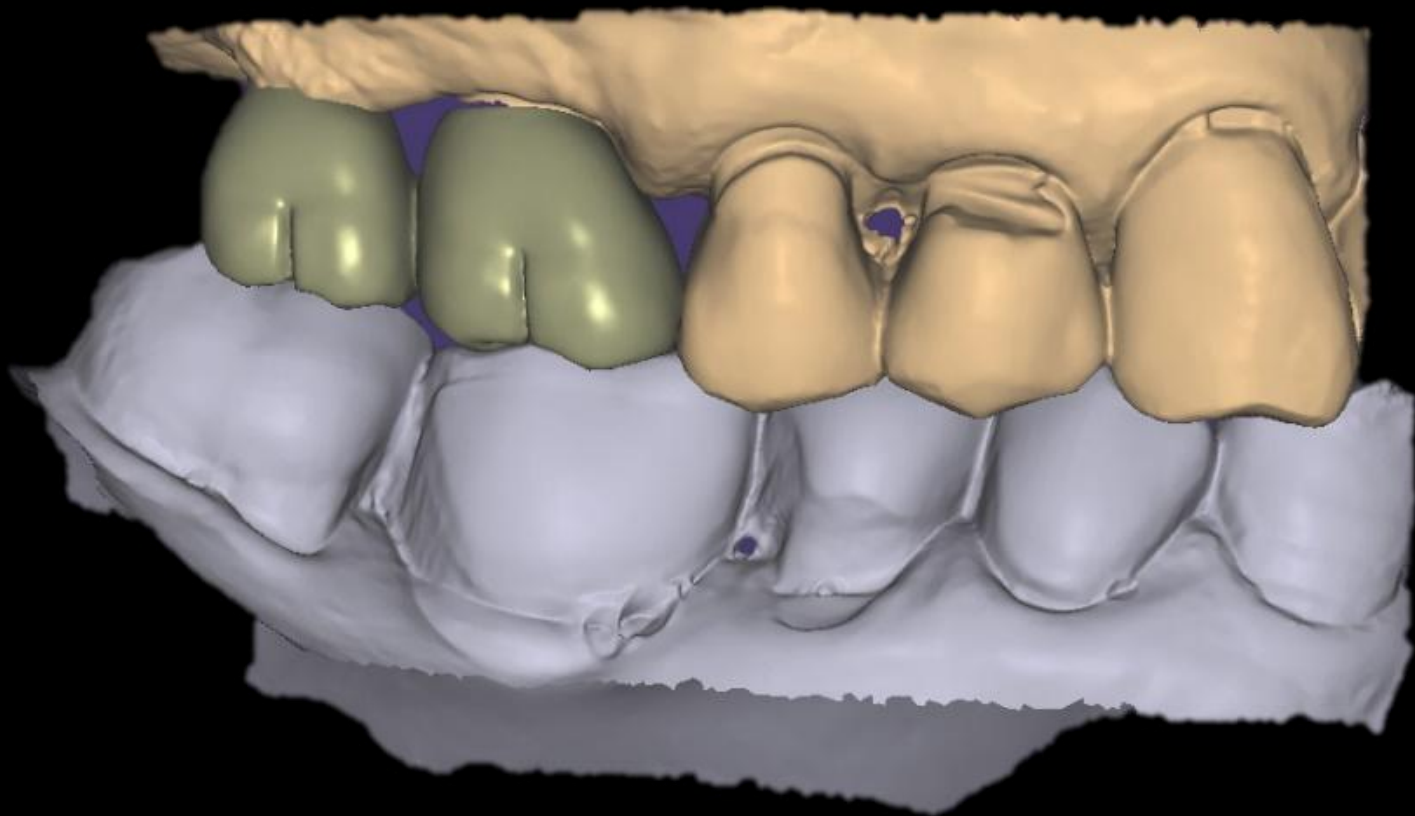
Surgery (2024-08-02)



Intra Oral Scan



CAD (Temporary)



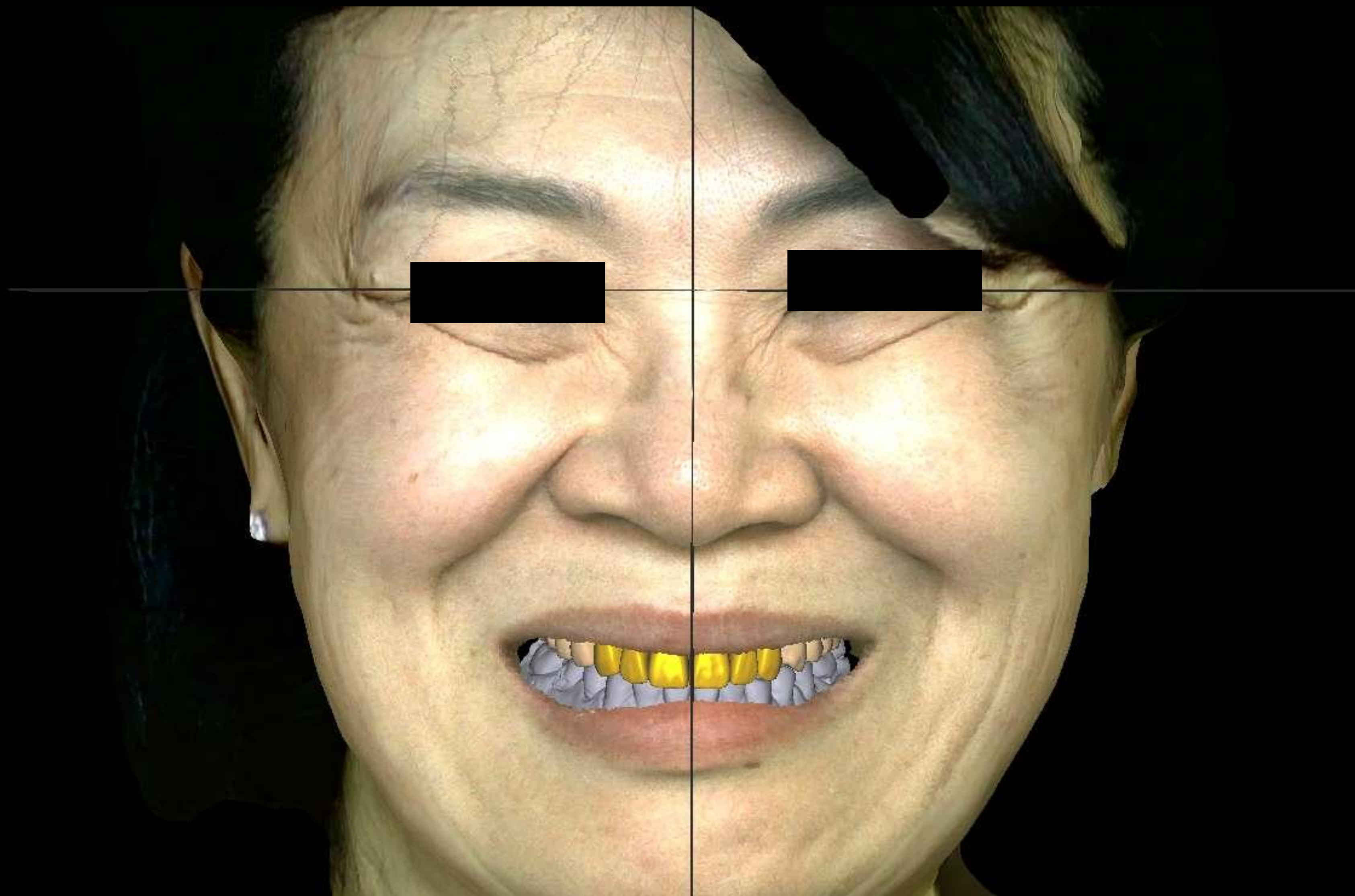
Provisional restoration (2024-09-10)

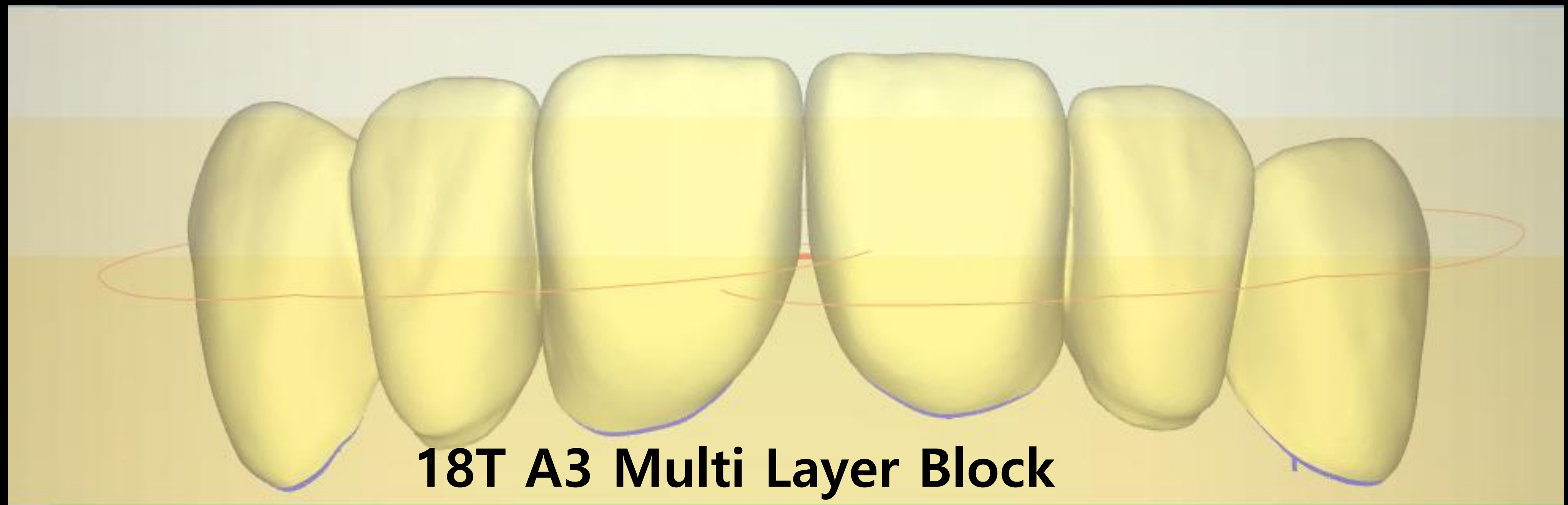


Healing : 4 months (2024-12-13)



Face driven





18T A3 Multi Layer Block

Natural tooth Case



Shade Taking : A3

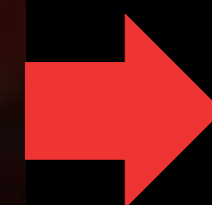


Natural tooth Case





CT centered



Virtual Set up



Virtual Set up



Pre Op

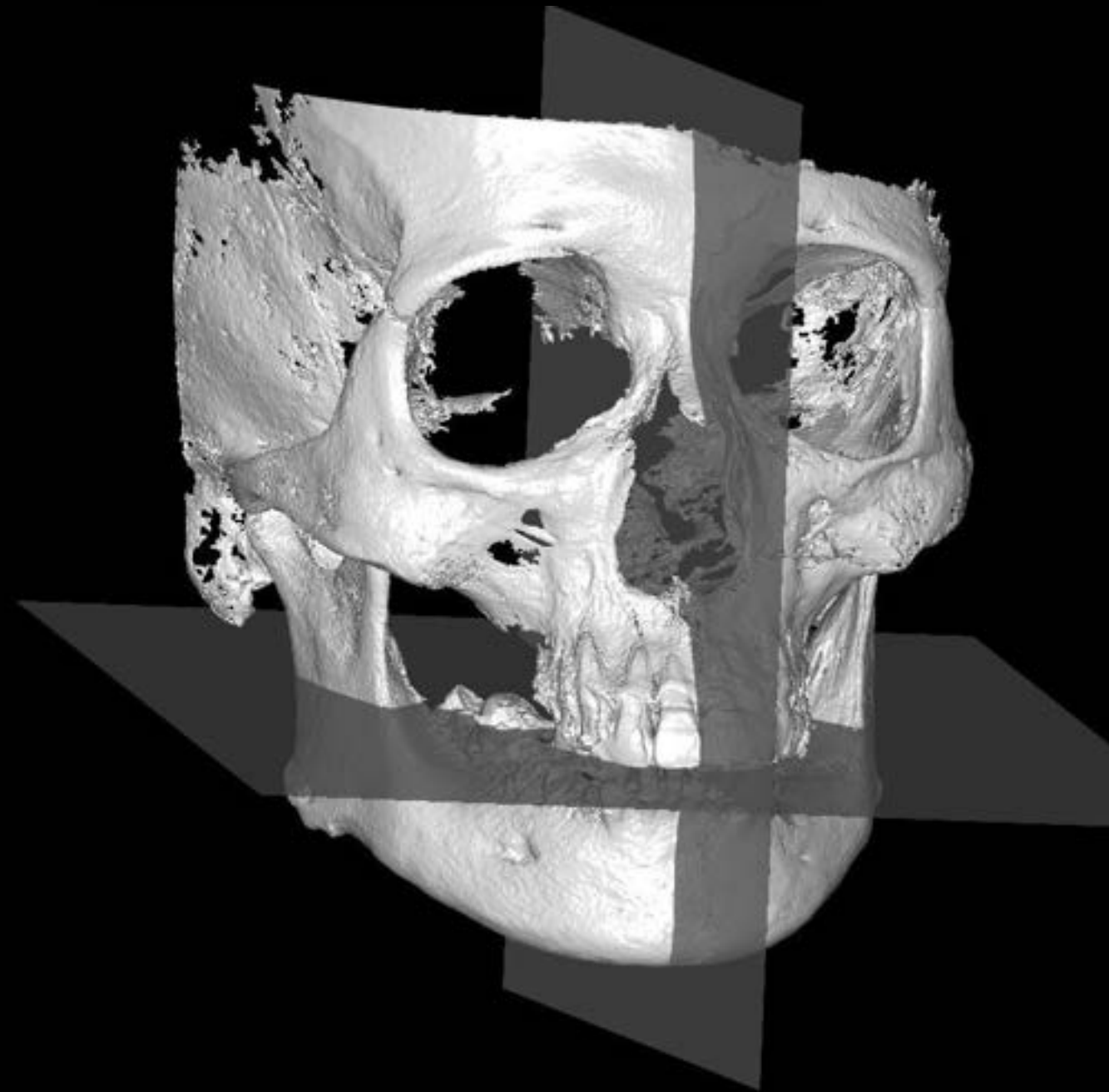


VD 3~4mm Up

Virtual Set up



**Shining 3D Face Scanner
Meti Smile**

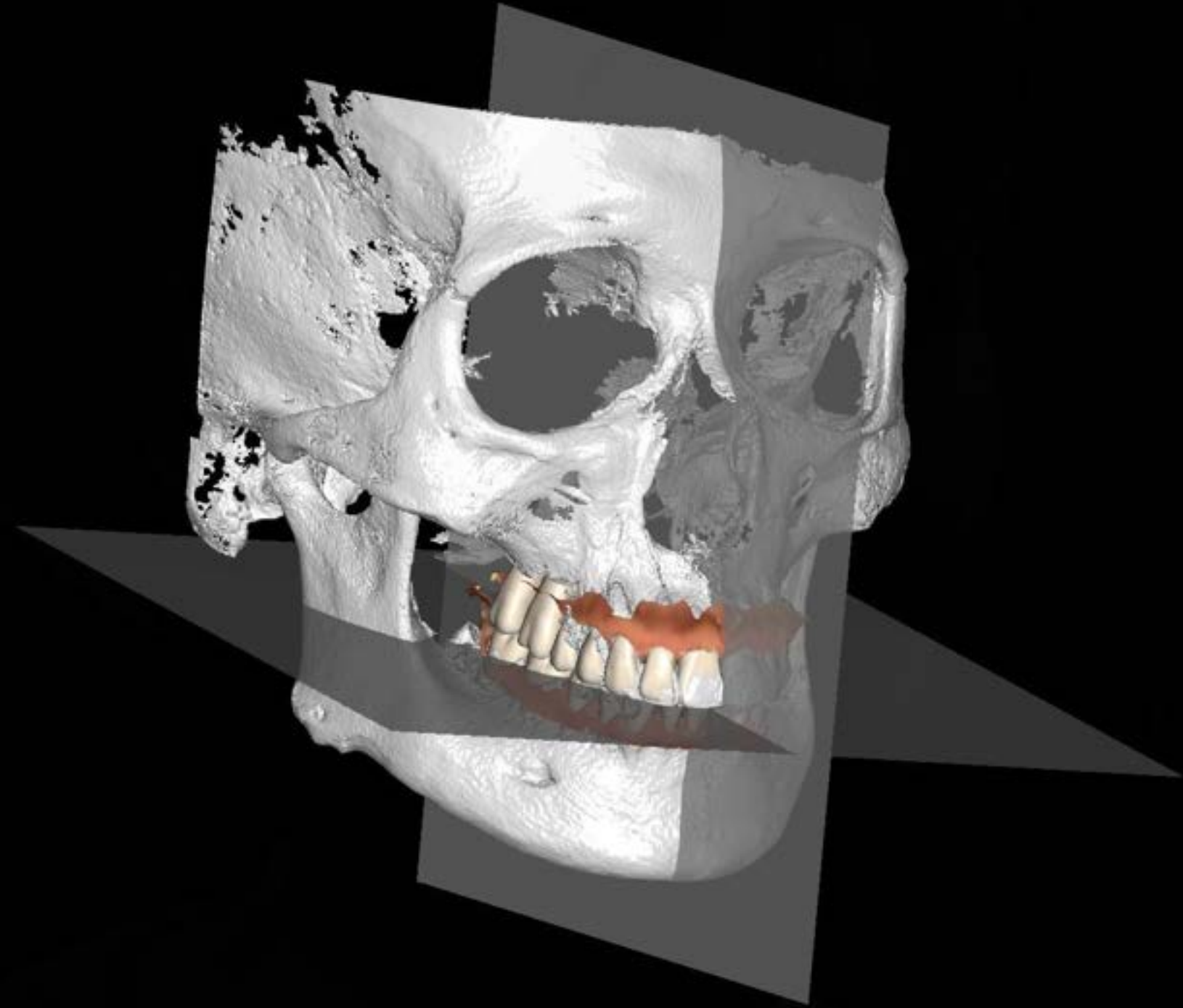


CT data(AI Occlusal Plane)



Shining 3D Aoral Scan Elite

Virtual Set up



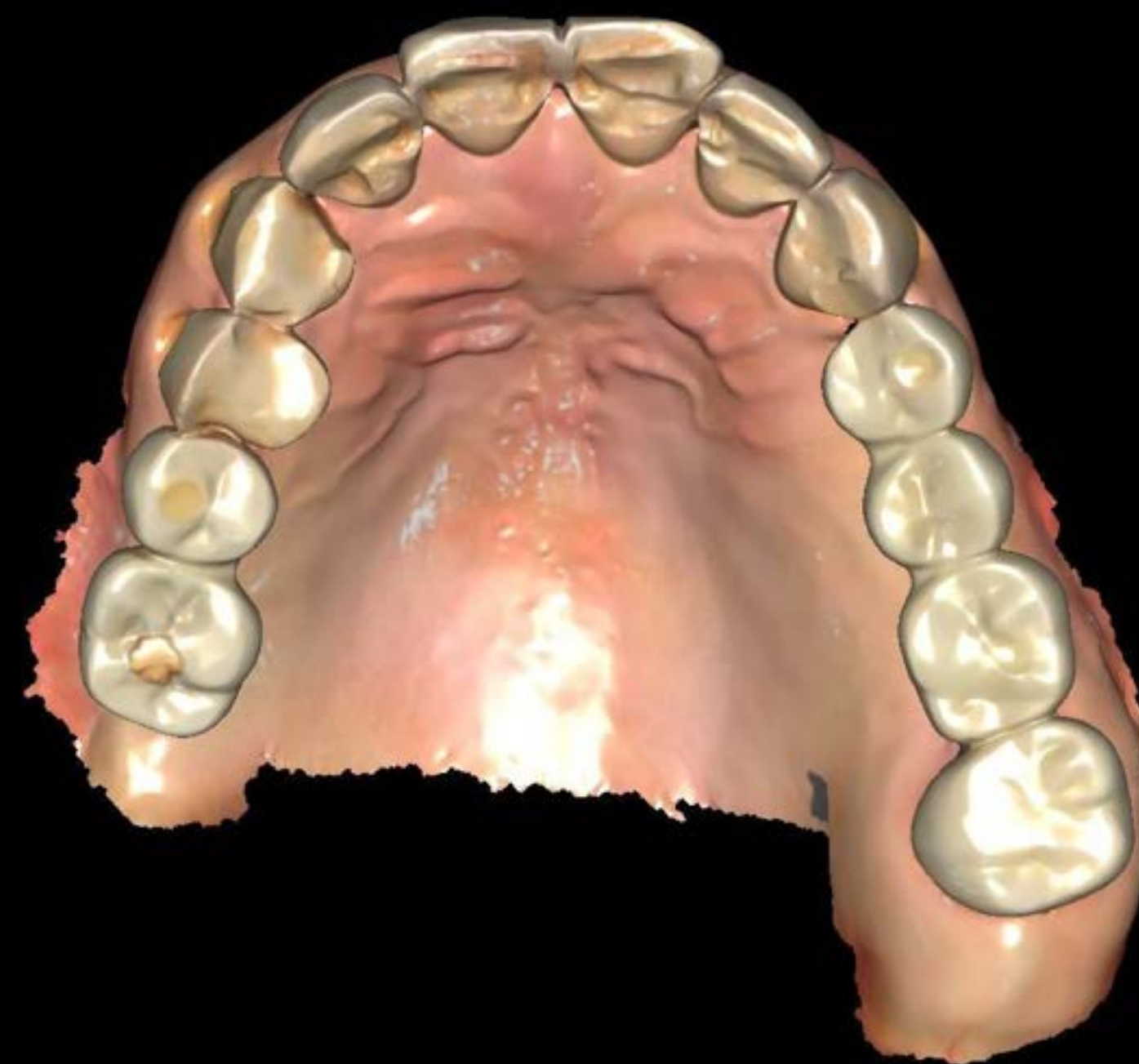
By using CT and face scan data for treatment planning,
patient satisfaction and cooperation during consultation are enhanced.

Provisional restoration



Posterior Ext & I.s

Provisional restoration



Implant provisional restoration 1st

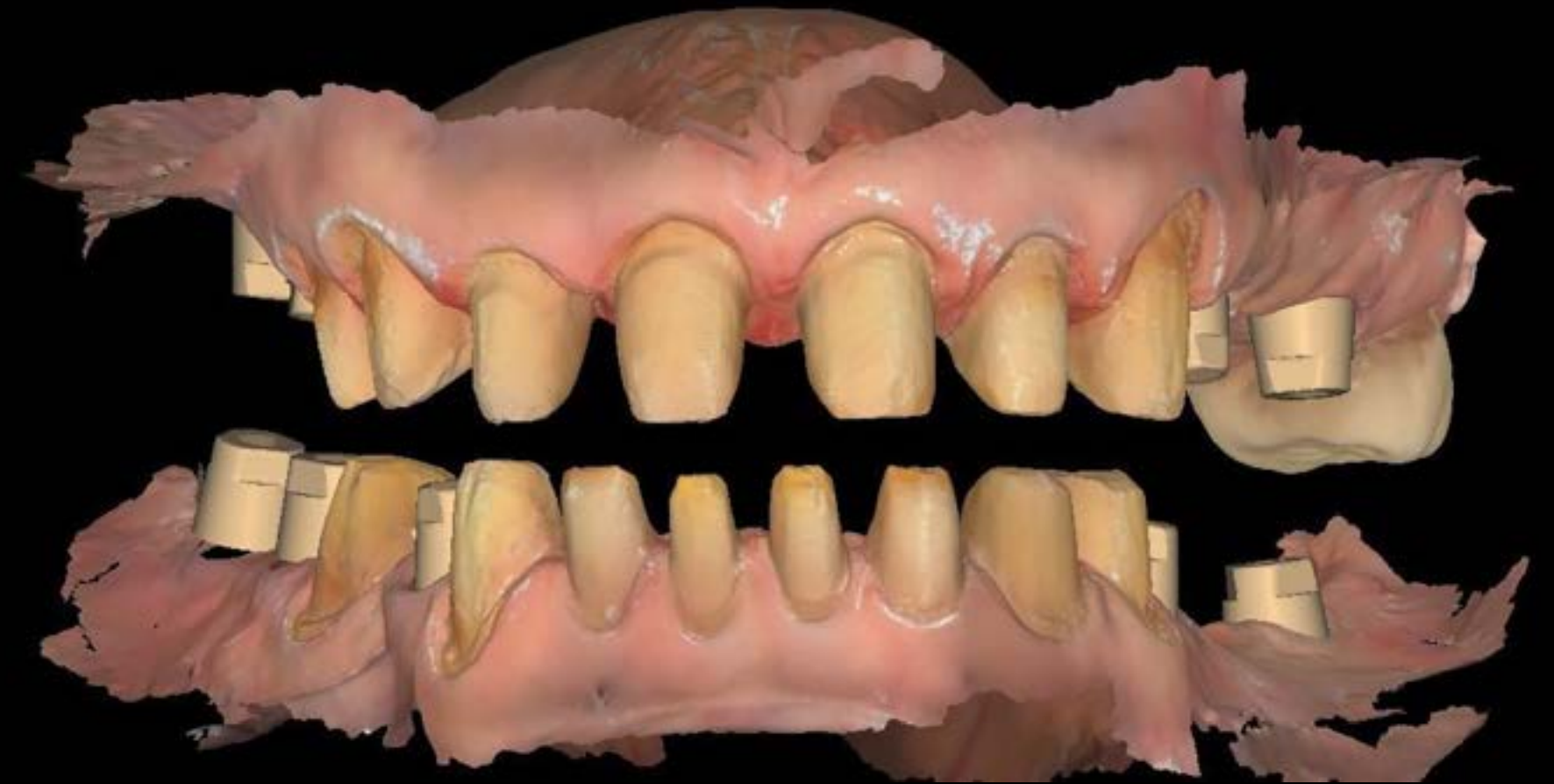
Provisional restoration



Implant cr provisional crown 1st



(Vd 3mm up)

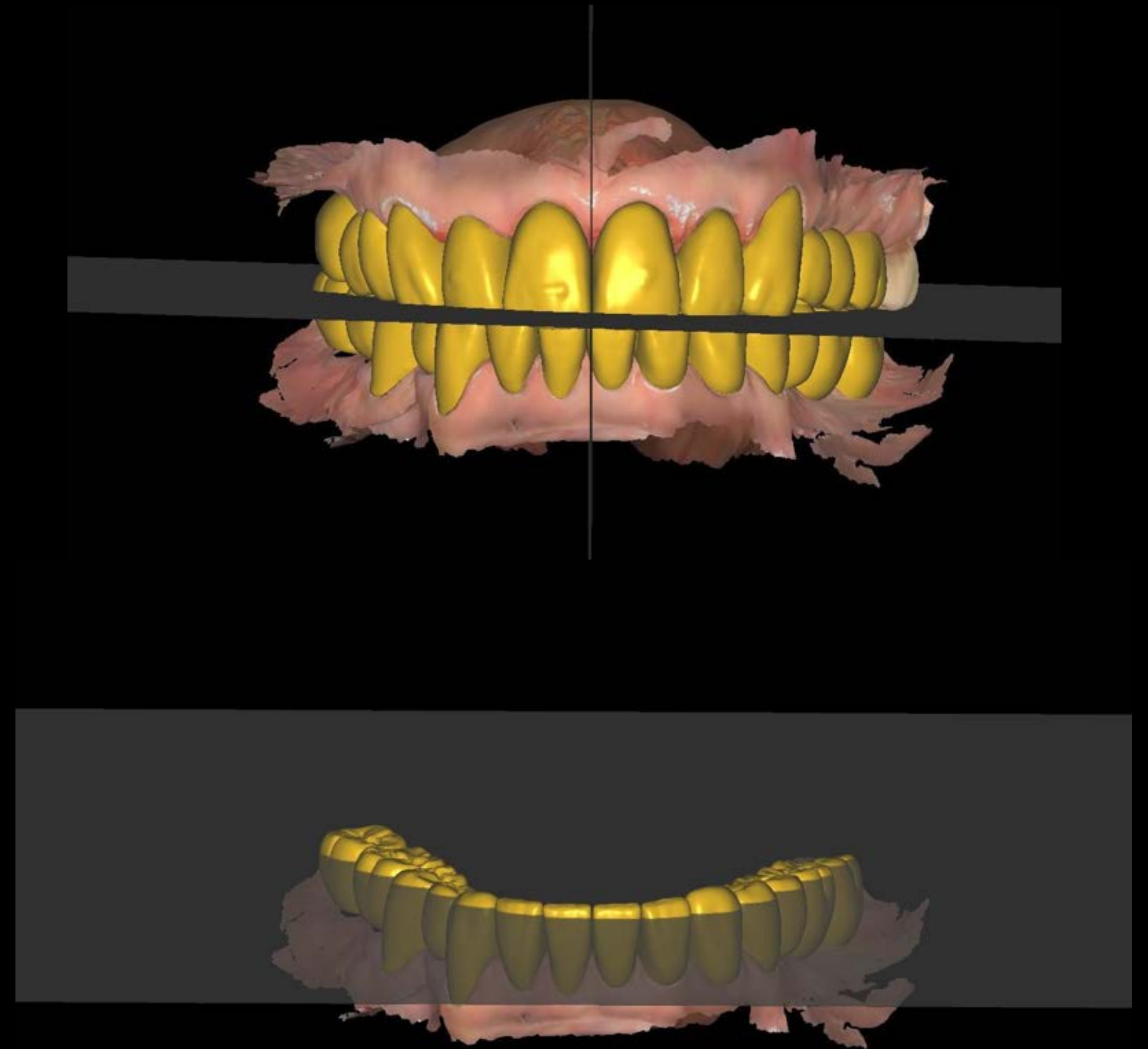
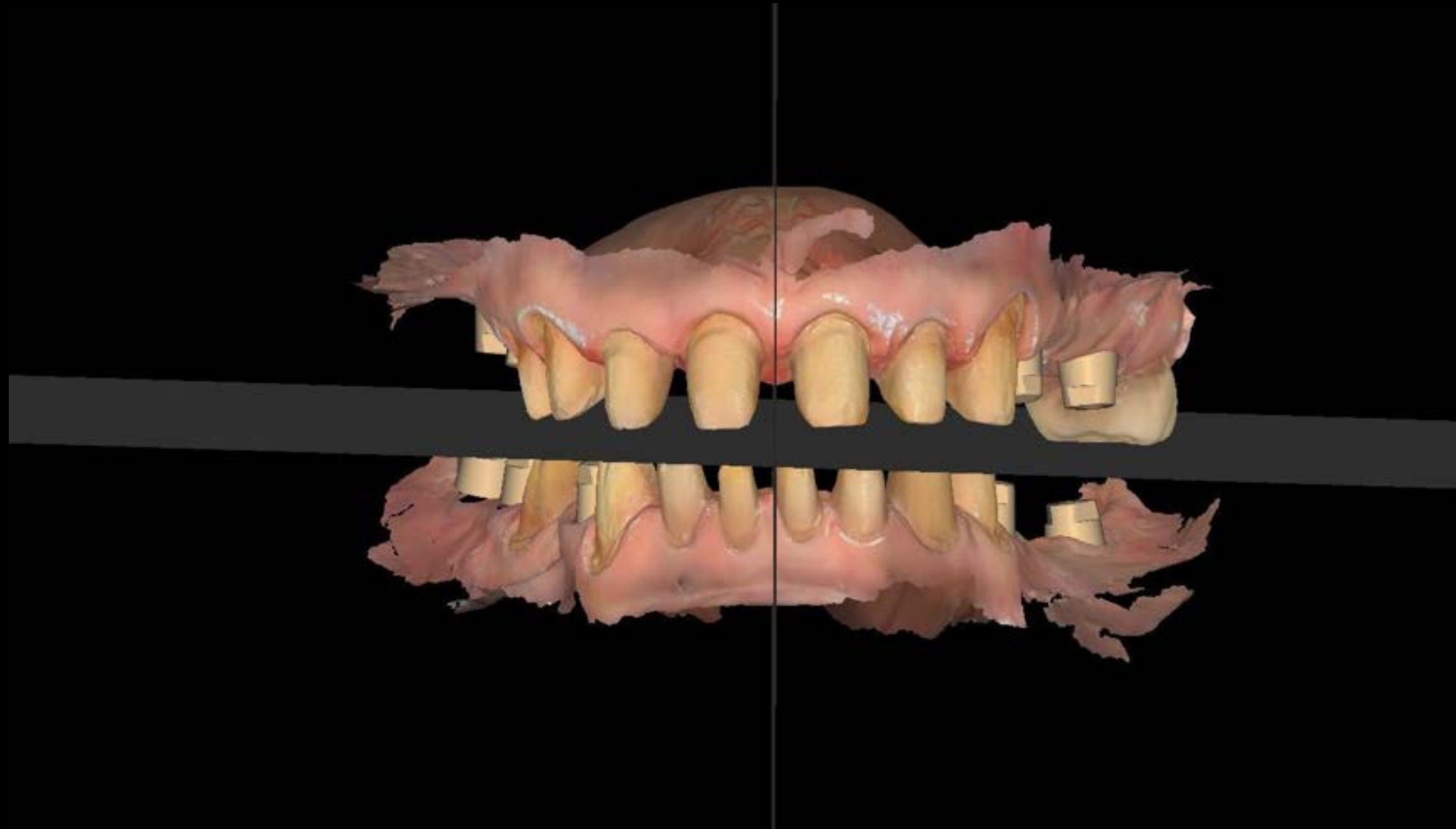


Full mouth provisional crown 2nd



Putty index
CT Check Bite

Cad Design



Cad design using CT data (AI Occlusal Plane)

Provisional restoration

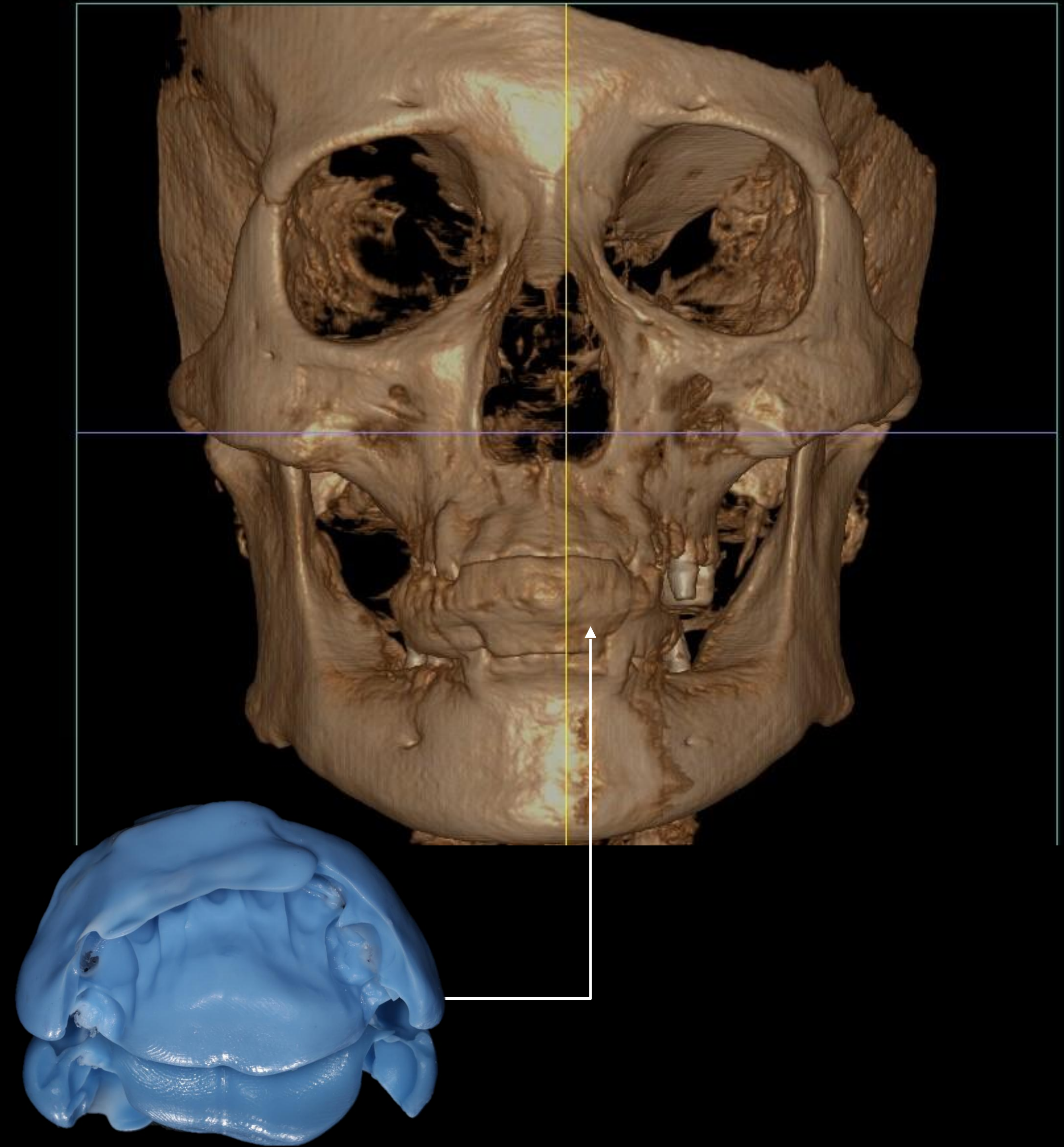


Full mouth provisional crown 2nd

CT Check Bite

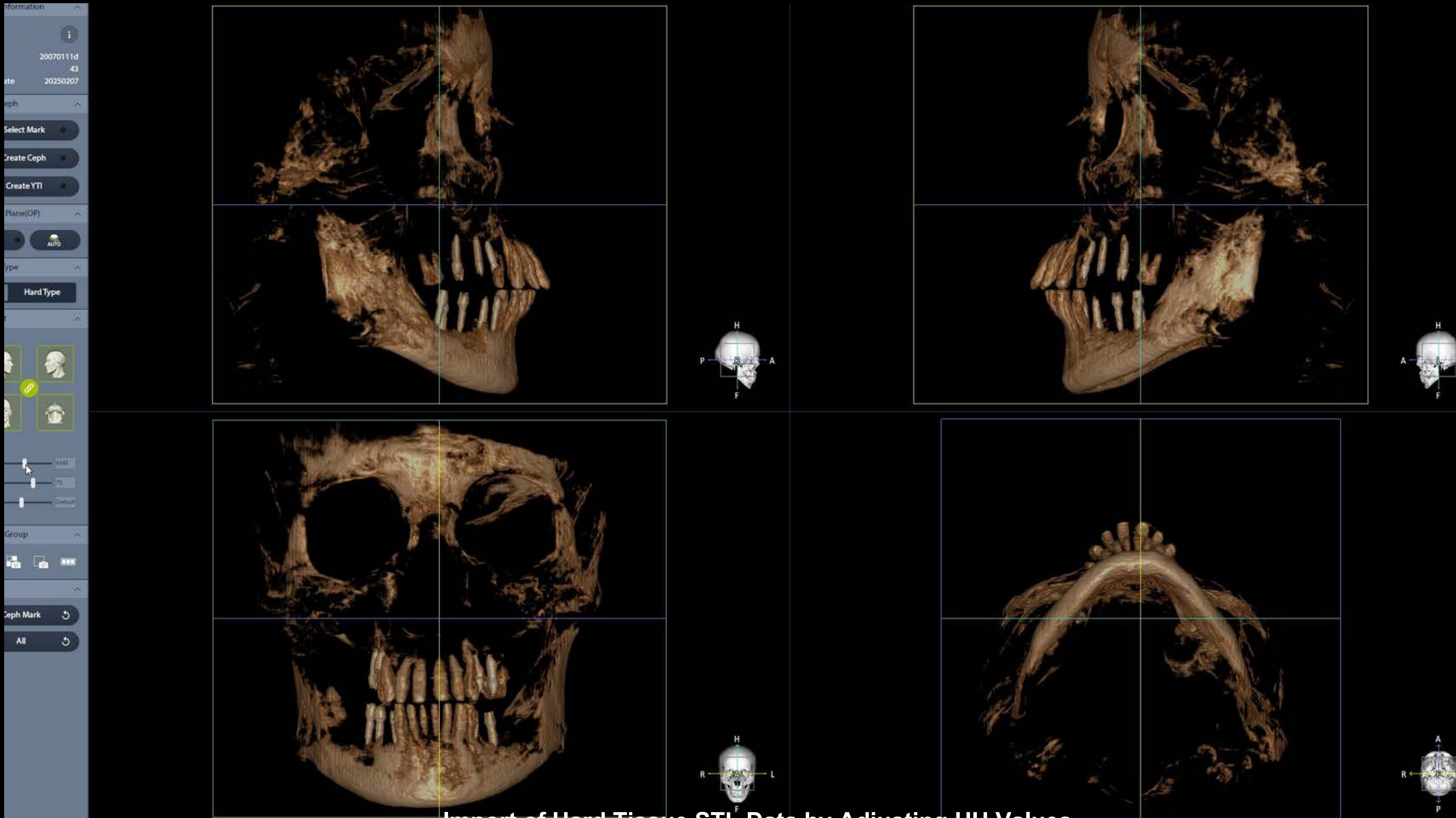


Using a putty index to fix the temporary crown occlusion
after the patient adapts to the new VD,
CT imaging is used to transfer the occlusion for the final prosthesis

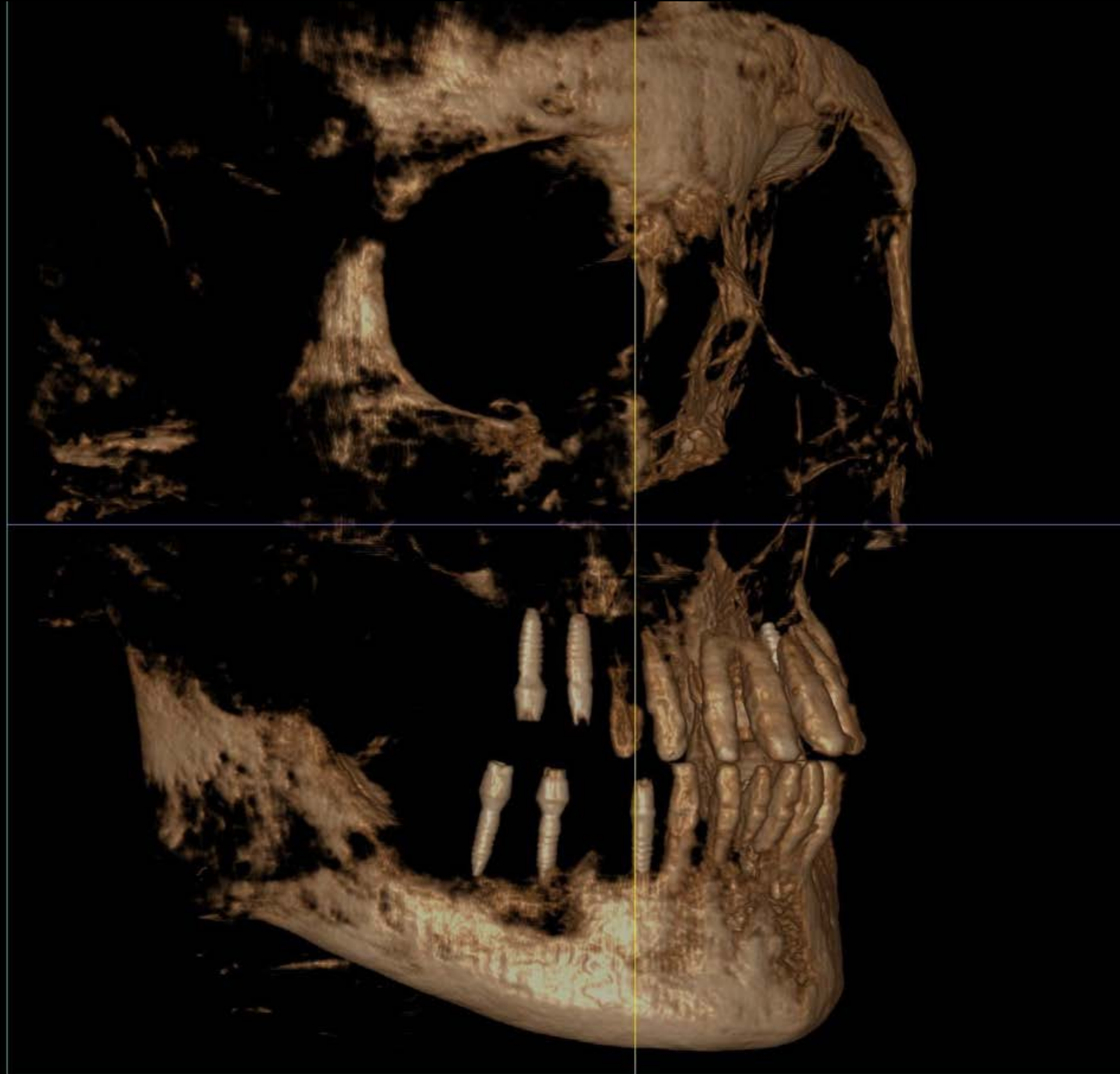


Putty Index

CT Check Bite



CT Check Bite



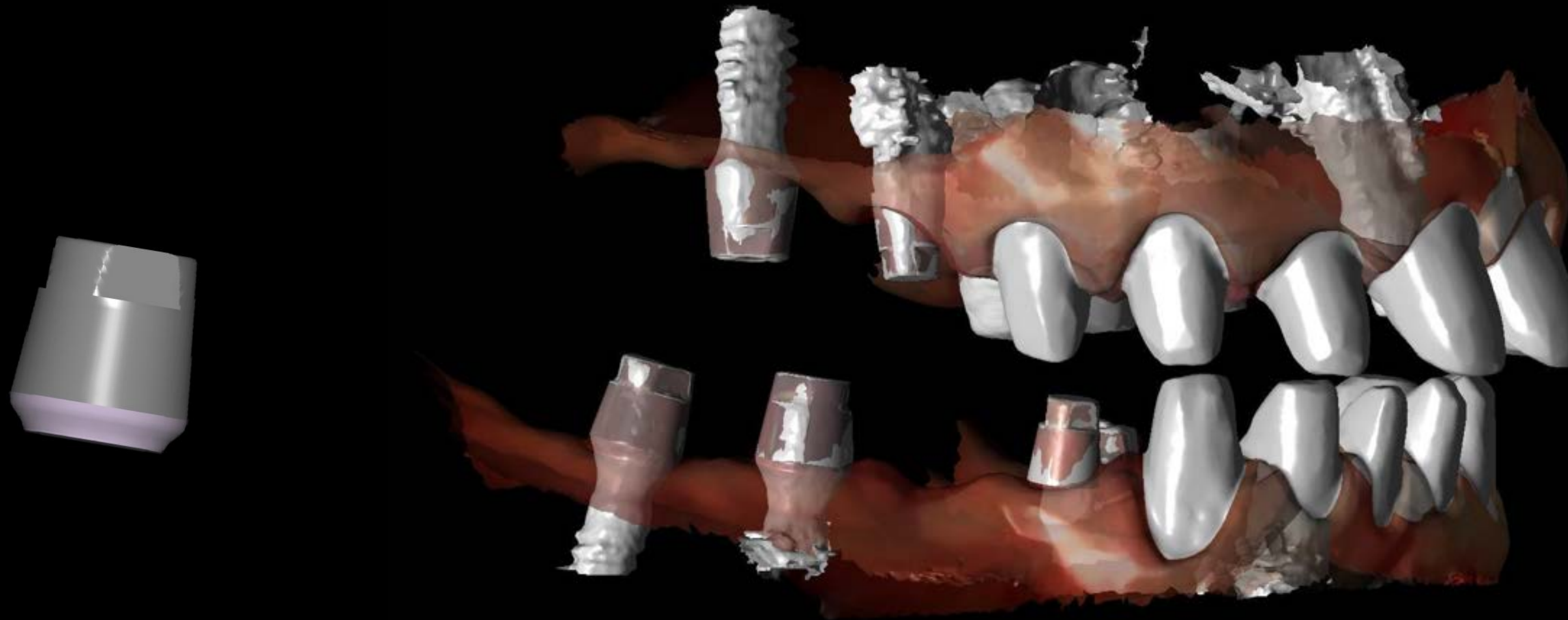
Import of Hard Tissue STL Data by Adjusting HU Values

CT Check Bite



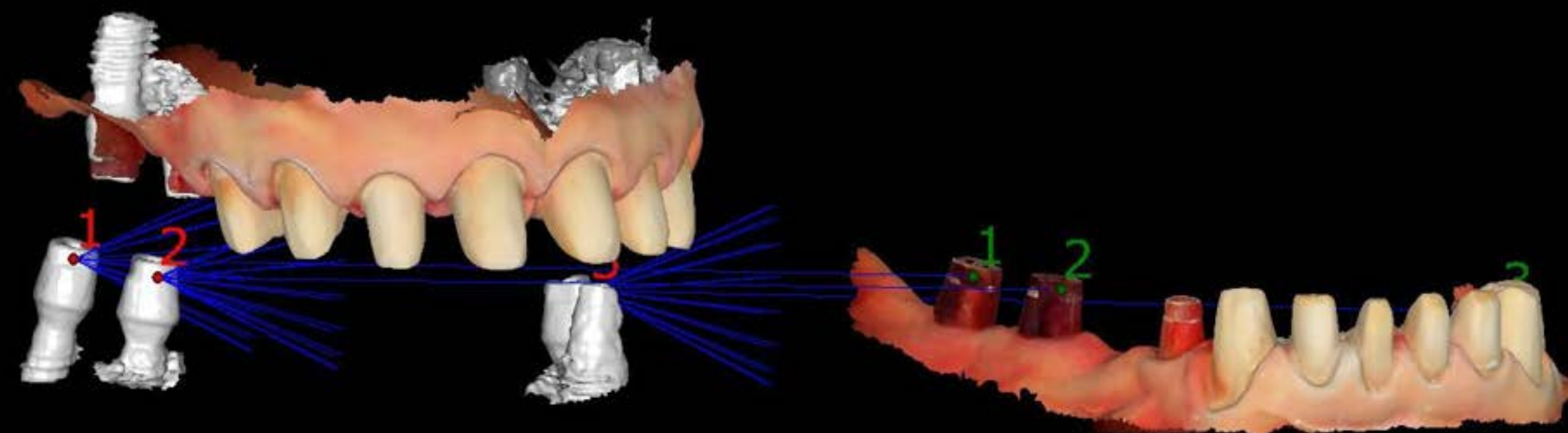
CT Data STL of Temporary Crown Occlusion Using Putty Index

CT Check Bite



CT Data STL of Temporary Crown Occlusion Using Putty Index

CT Check Bite



Digital Mounting Using CT Data

CT Check Bite



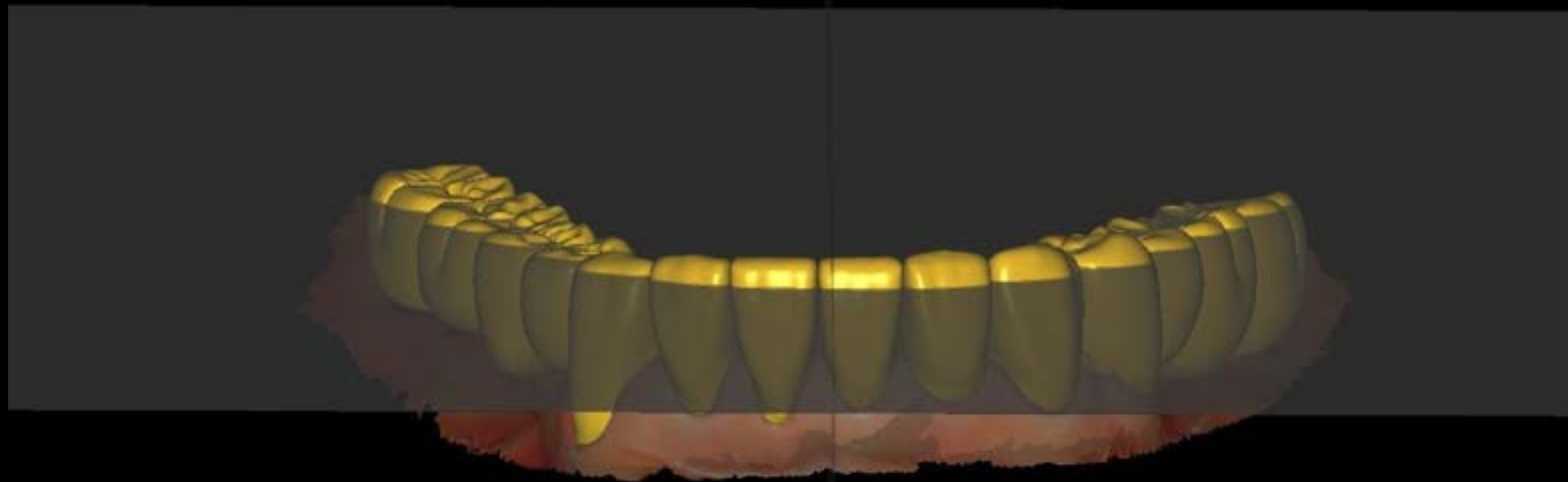
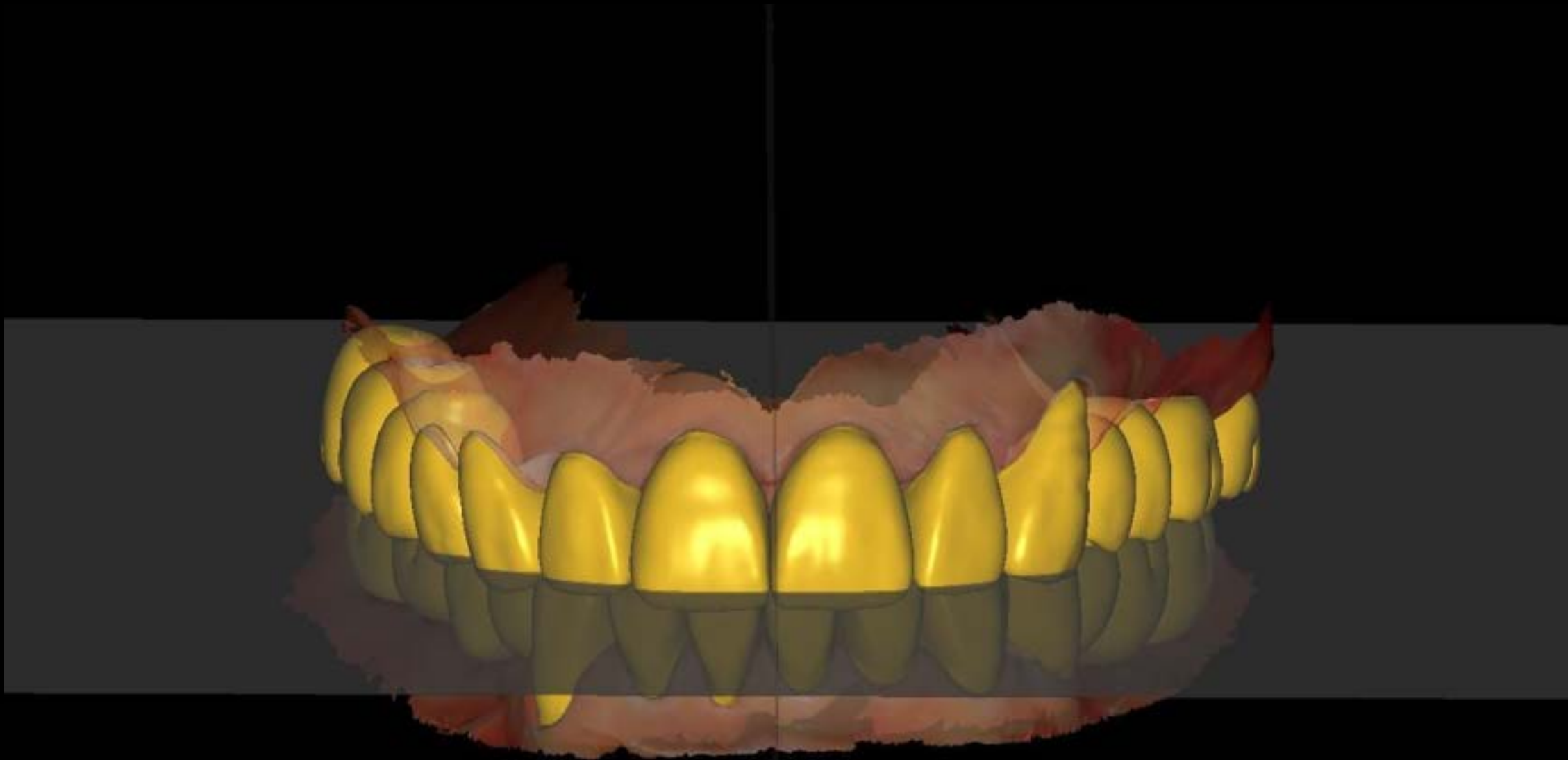
Digital Mounting Using CT Data

CT Check Bite

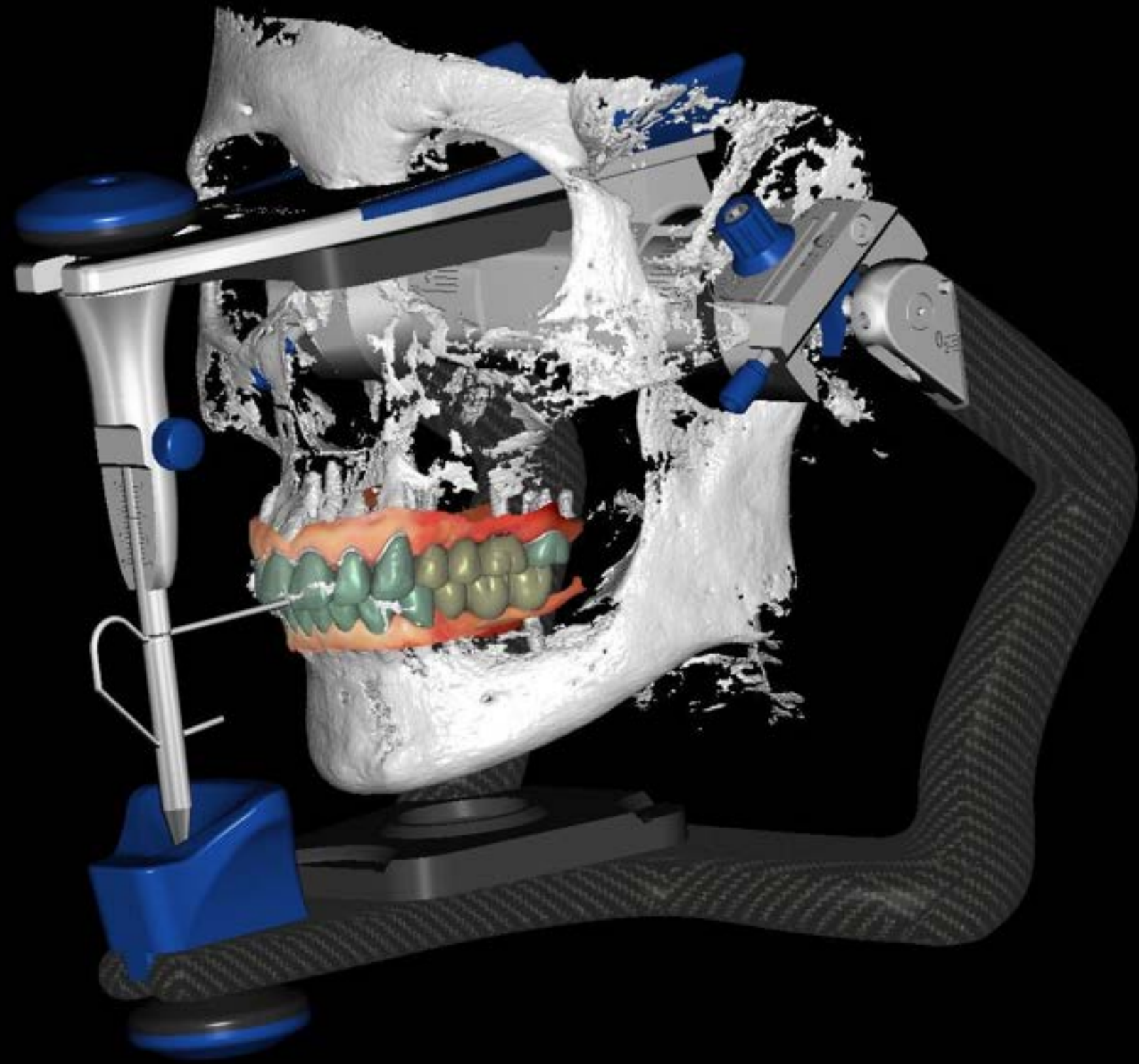


Digital Mounting Using CT Data

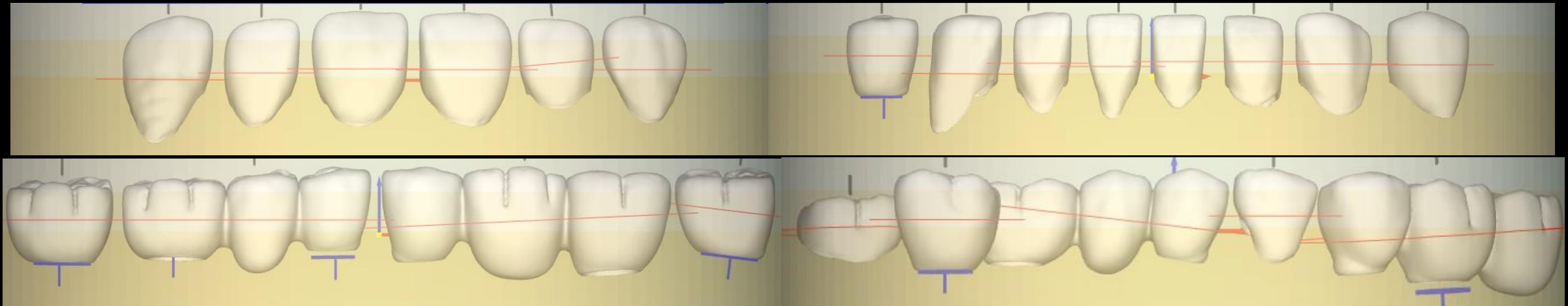
Cad Design



Virtual Articulator



Hyper Dent



3-Layer block A1

bright 3-Layer

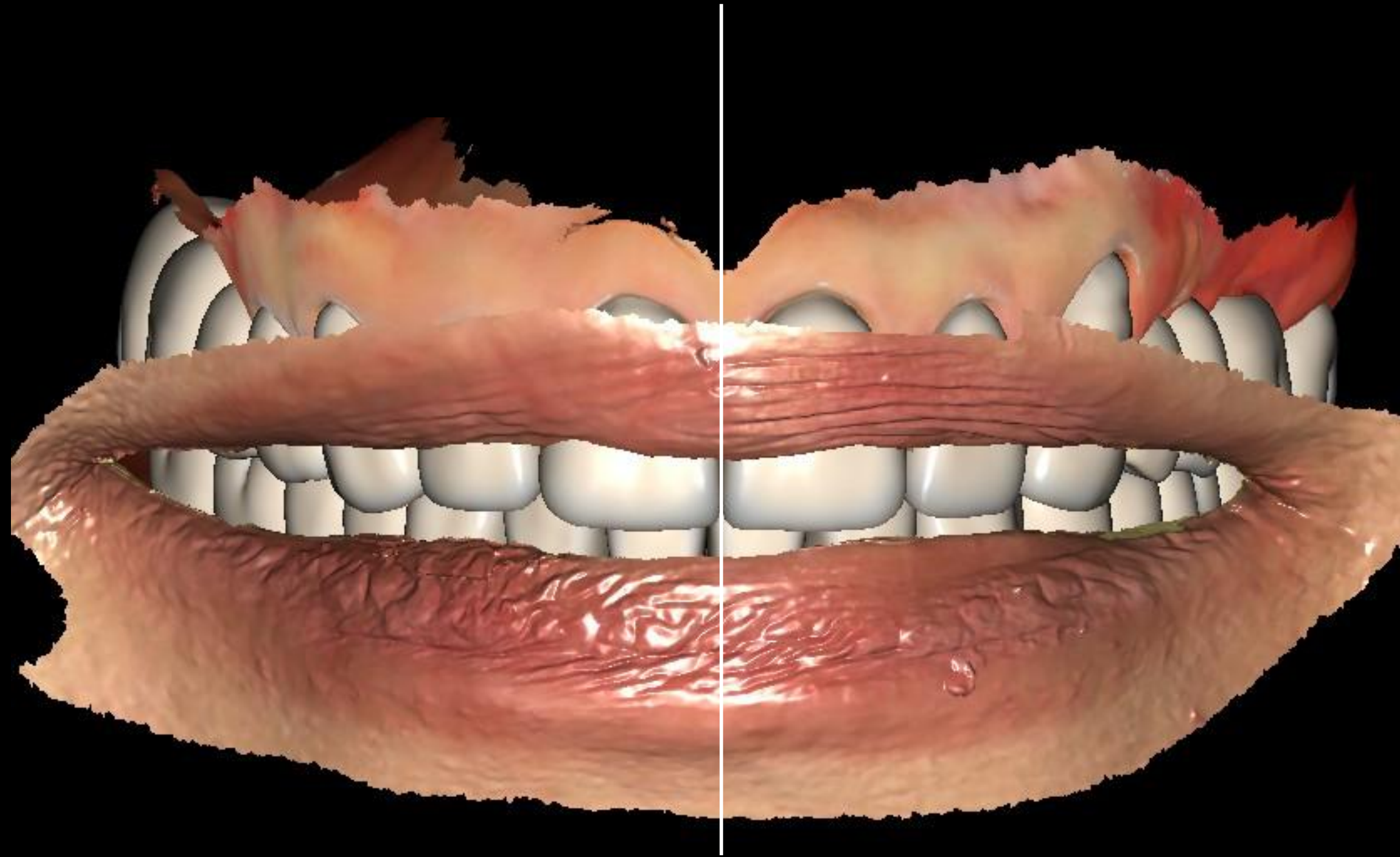


Final Prosthesis



Model-less , Stock Abutment, 3 layer Block, CT data(AI Occlusal Plane)

Final Prosthesis



Model-less , Stock Abutment, 3 layer Block, CT data(AI Occlusal Plane)



Pre Op



Full mouth provisional crown 2nd

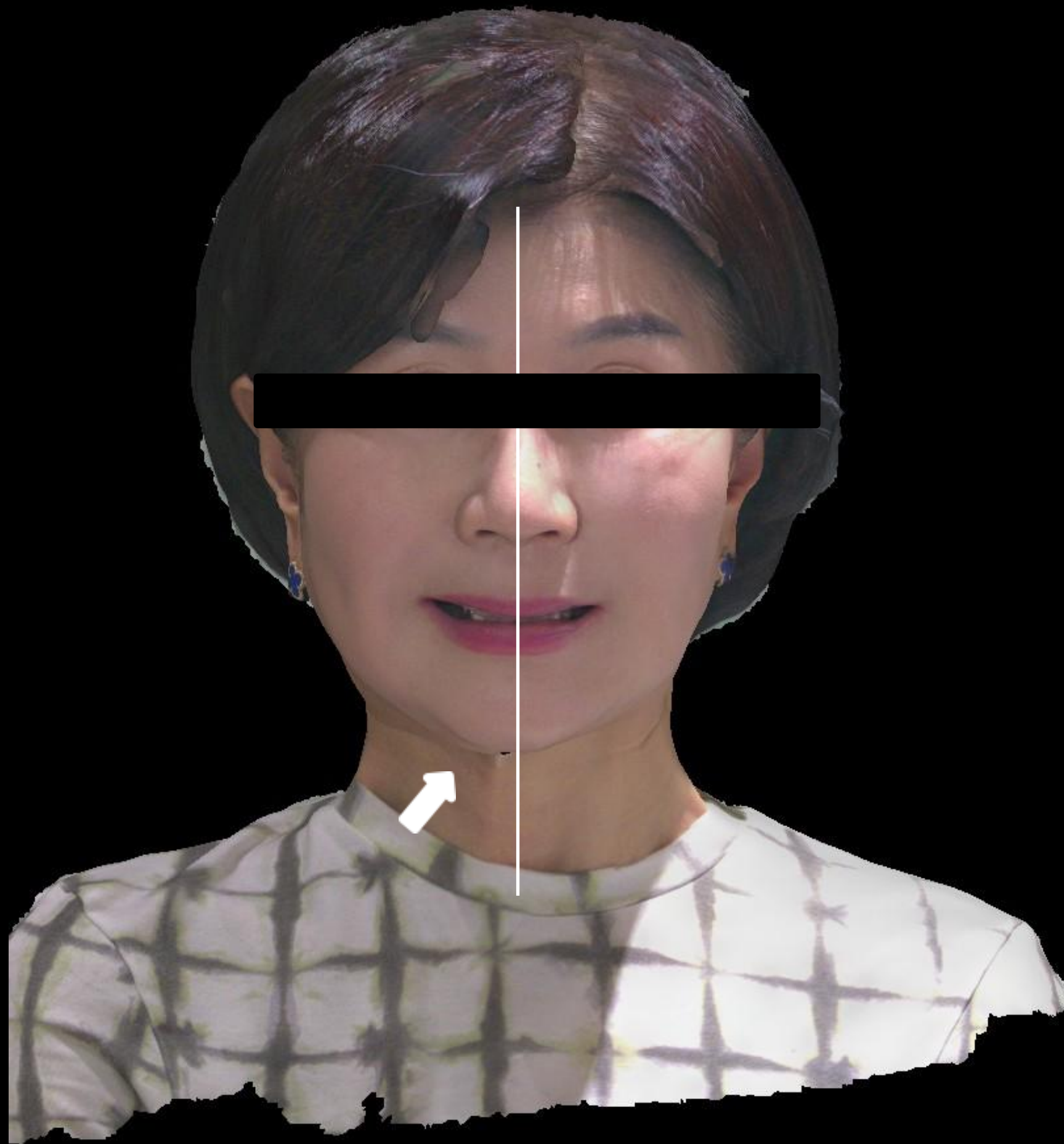


Implant cr provisional crown 1st

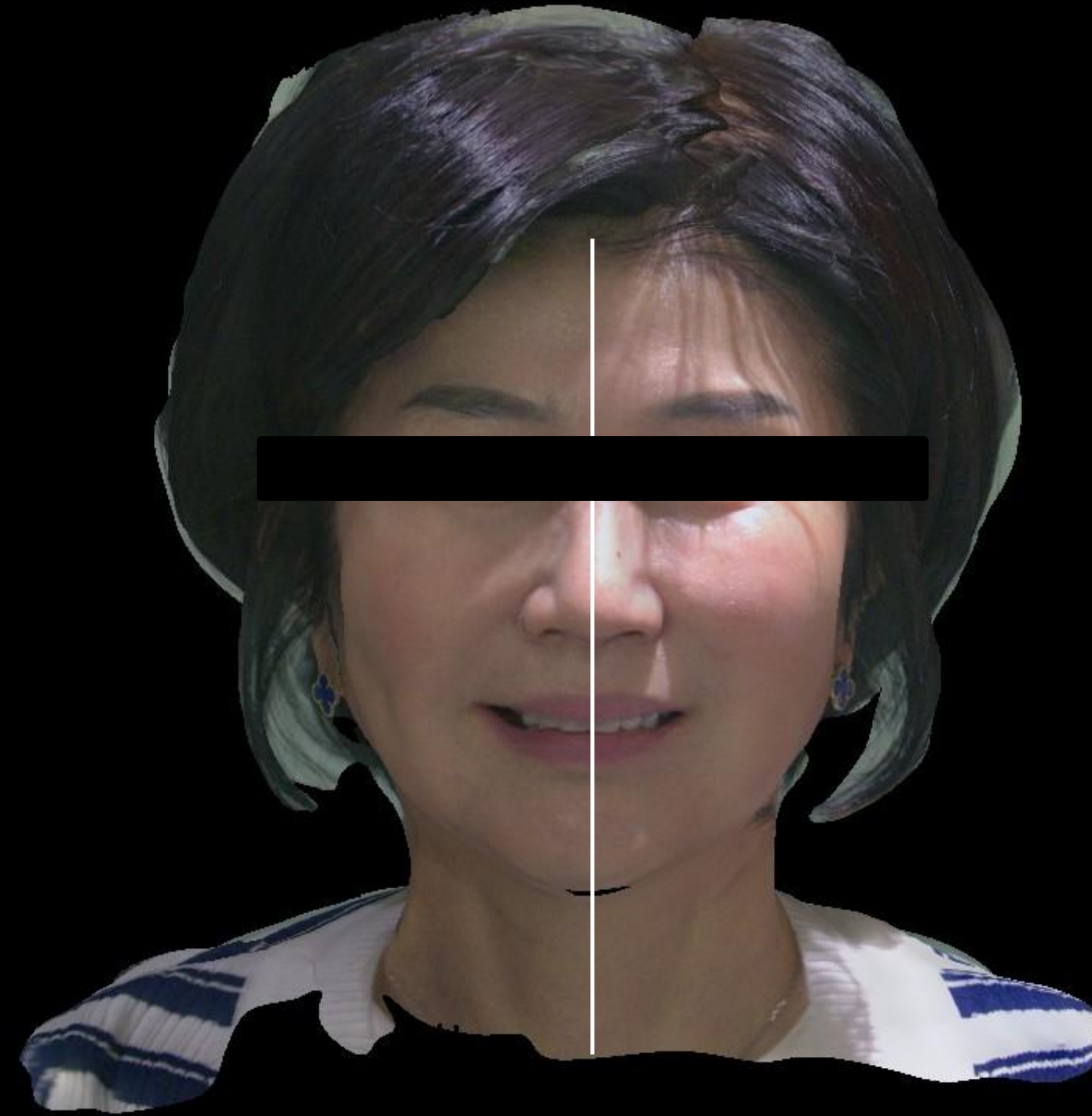


Full mouth Final Prosthesis

Model-less , Stock Abutment, 3 layer Block, CT data(AI Occlusal Plane)



Consulting Face Scan data



Final Face Scan data

Contents

Introduction

Tooth oriented

Facial driven

CT centered

BTS - bite impressions and scanning with model scanner

BOS - bite impressions and scanning with IOS

IOS - intra oral scanning

BTS BOS IOS

IOS - Natural teeth and simple case

Communication and consultation

Continuous upgrade and investment

BTS and BOS - implant and extensive case

Accurate and no investment

Simple Digital Impression

1 B.T.S (Bite Tray Impression Scan)



2 IOS (Intra Oral Scan)

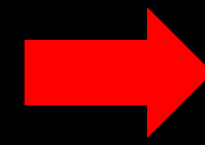


BTS

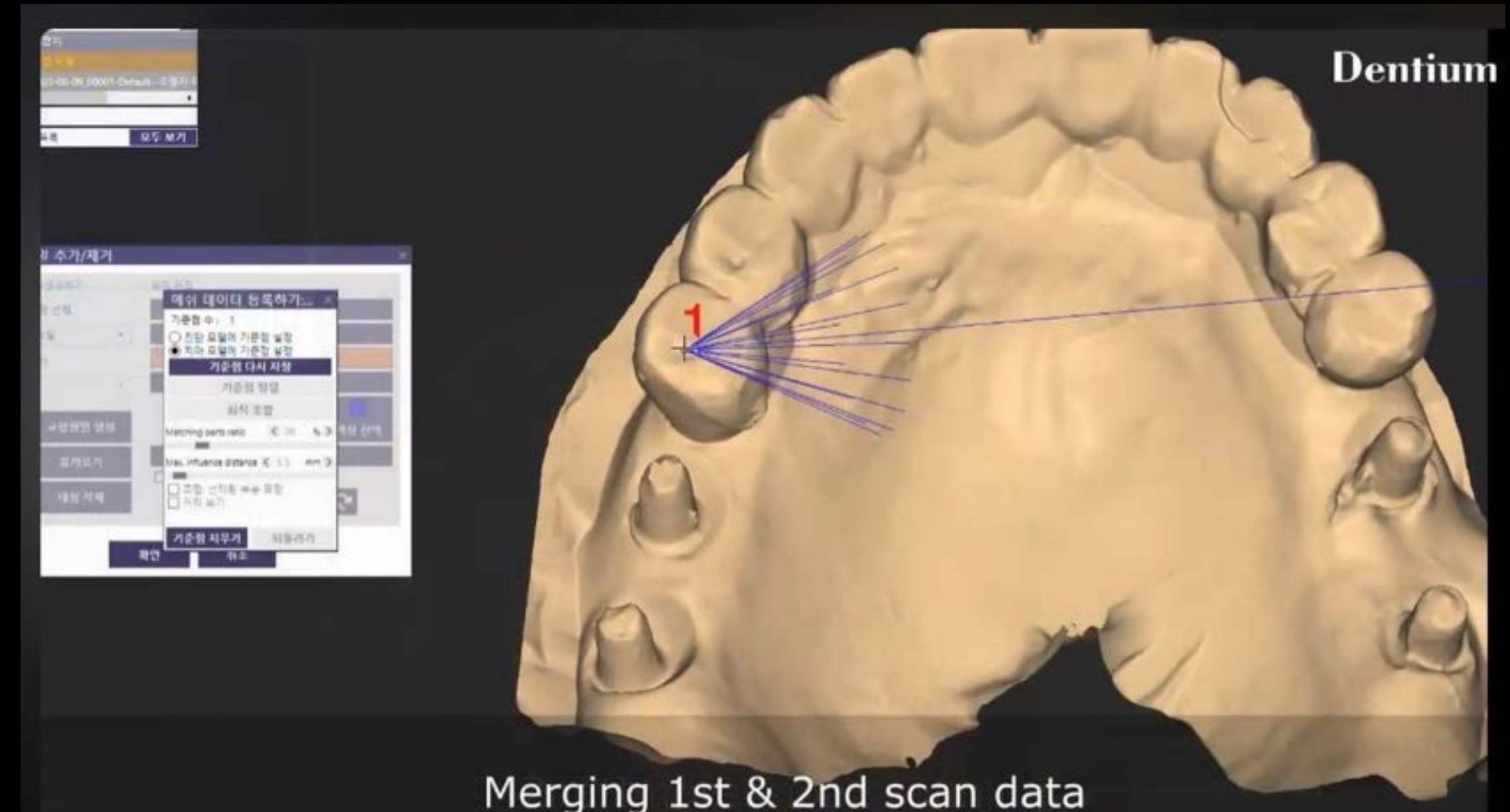
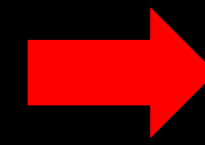
Bite Tray Impression Scanning



Impression
Rubber Trimming



IMP SCAN



Merging 1st & 2nd scan data

Dentium Dental Clinic **BTS** Process

1. Bite Tray Selection & Simulation



Full - Arch



Anterior - Exd



Anterior



Posterior – Metal



Posterior - Original

Dentium Dental Clinic **BTS** Process

1. Bite Tray Selection & Simulation
2. Light body & Putty IMP



Nature Tooth & AB level IMP
Light Body + Putty



Fixture level (IMP Coping)
Medium Body + Putty

Dentium Dental Clinic **BTS** Process

1. Bite Tray Selection & Simulation
2. Light body & Putty IMP
3. Buccal & Lingual Molding

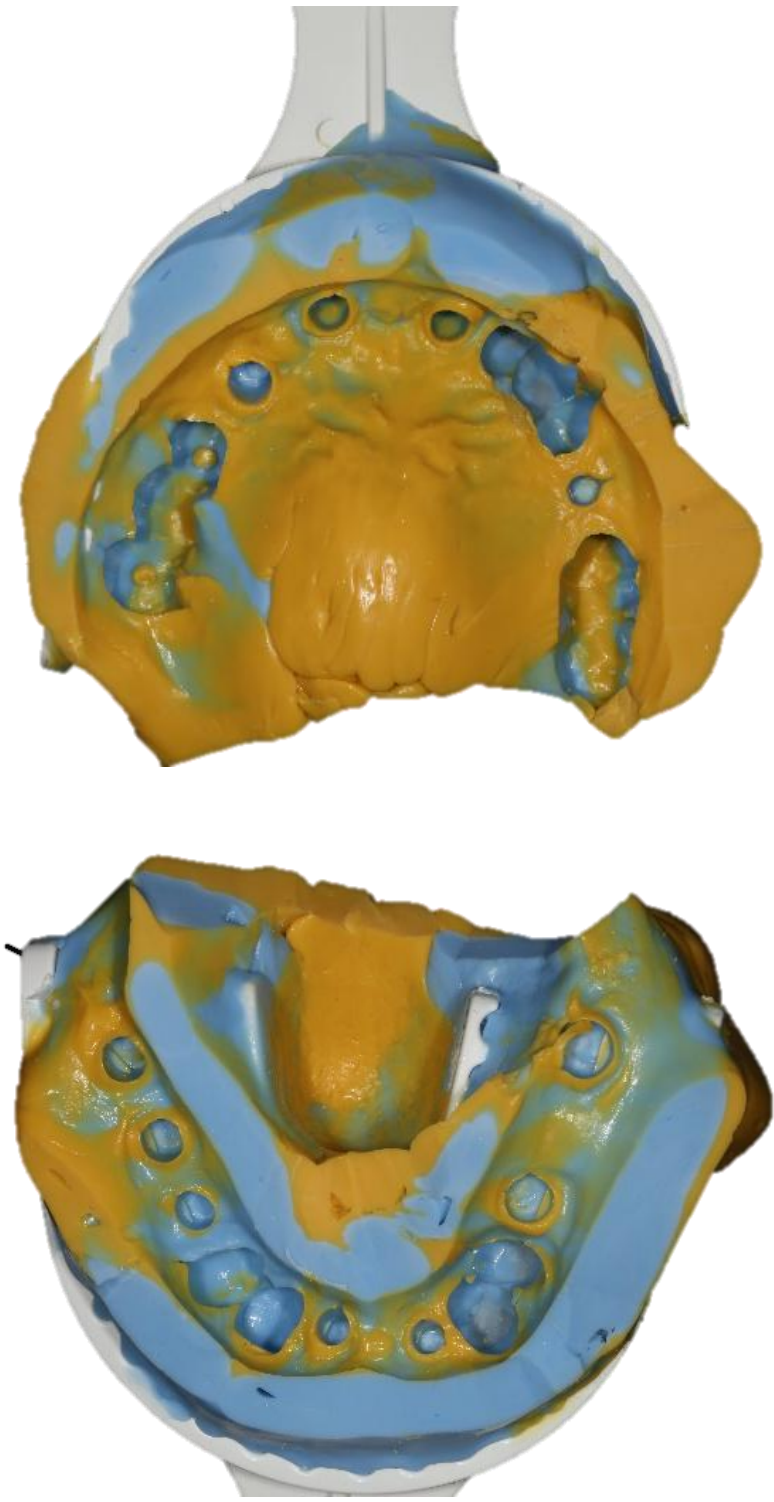


Dentium Dental Clinic **BTS** Process

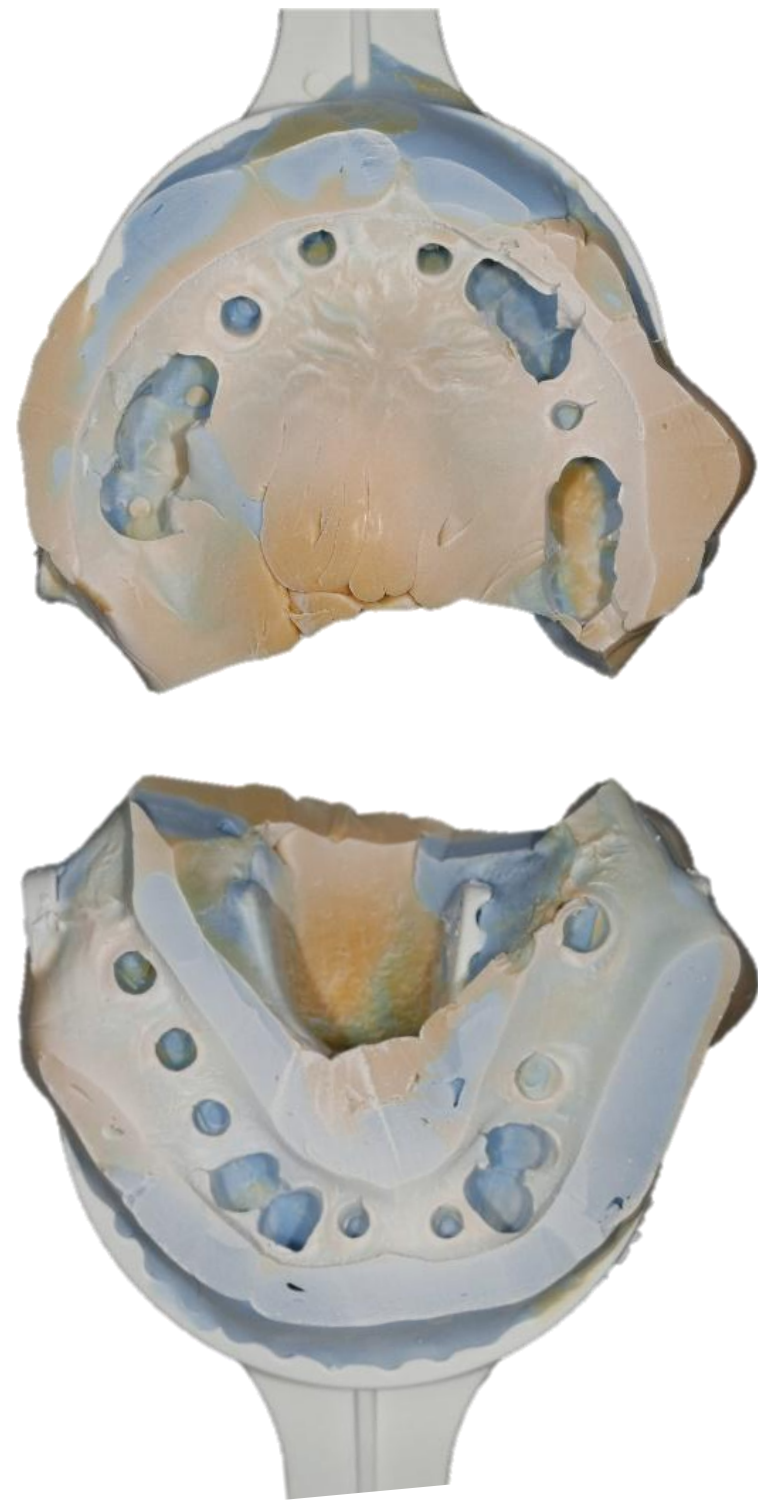
1. Bite Tray Selection & Simulation
2. Light body & Putty IMP
3. Buccal & Lingual Molding
4. Mandibular Fixation



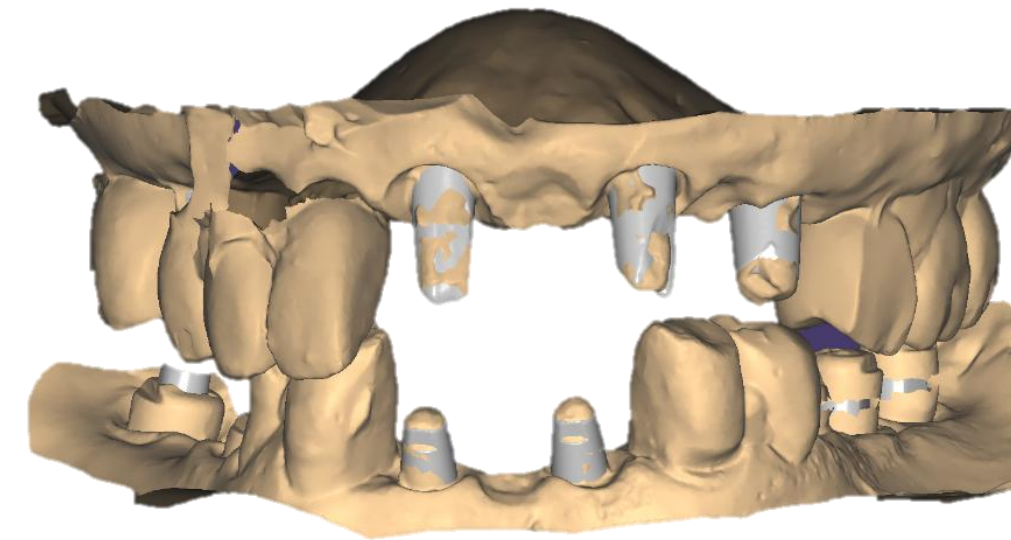
B.T.S (Bite Tray Impression Scan)



Take an impression
using putty and light body



Spray



Scan the model with a model scanner



B ite

T ray impression

S canning

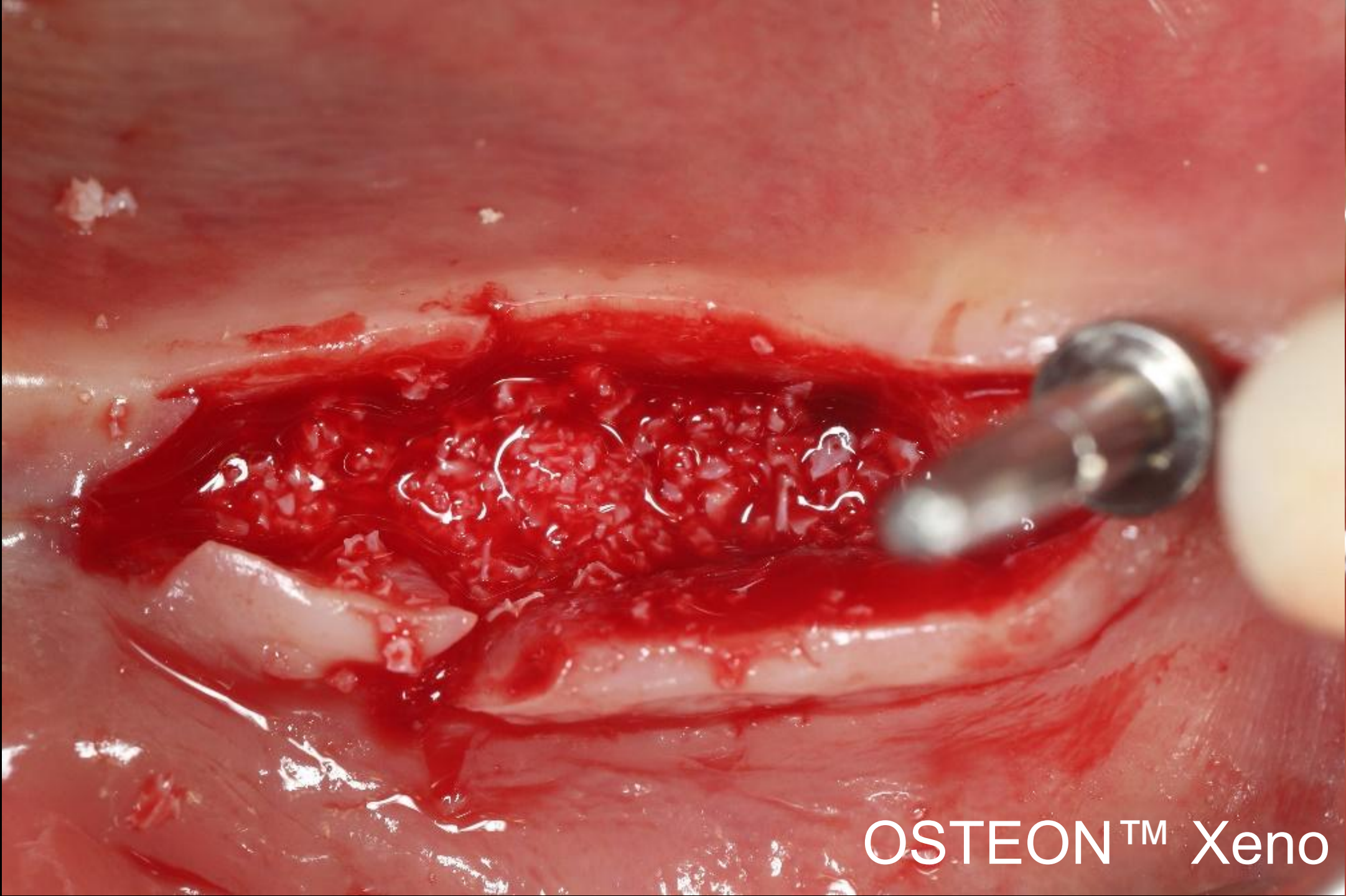
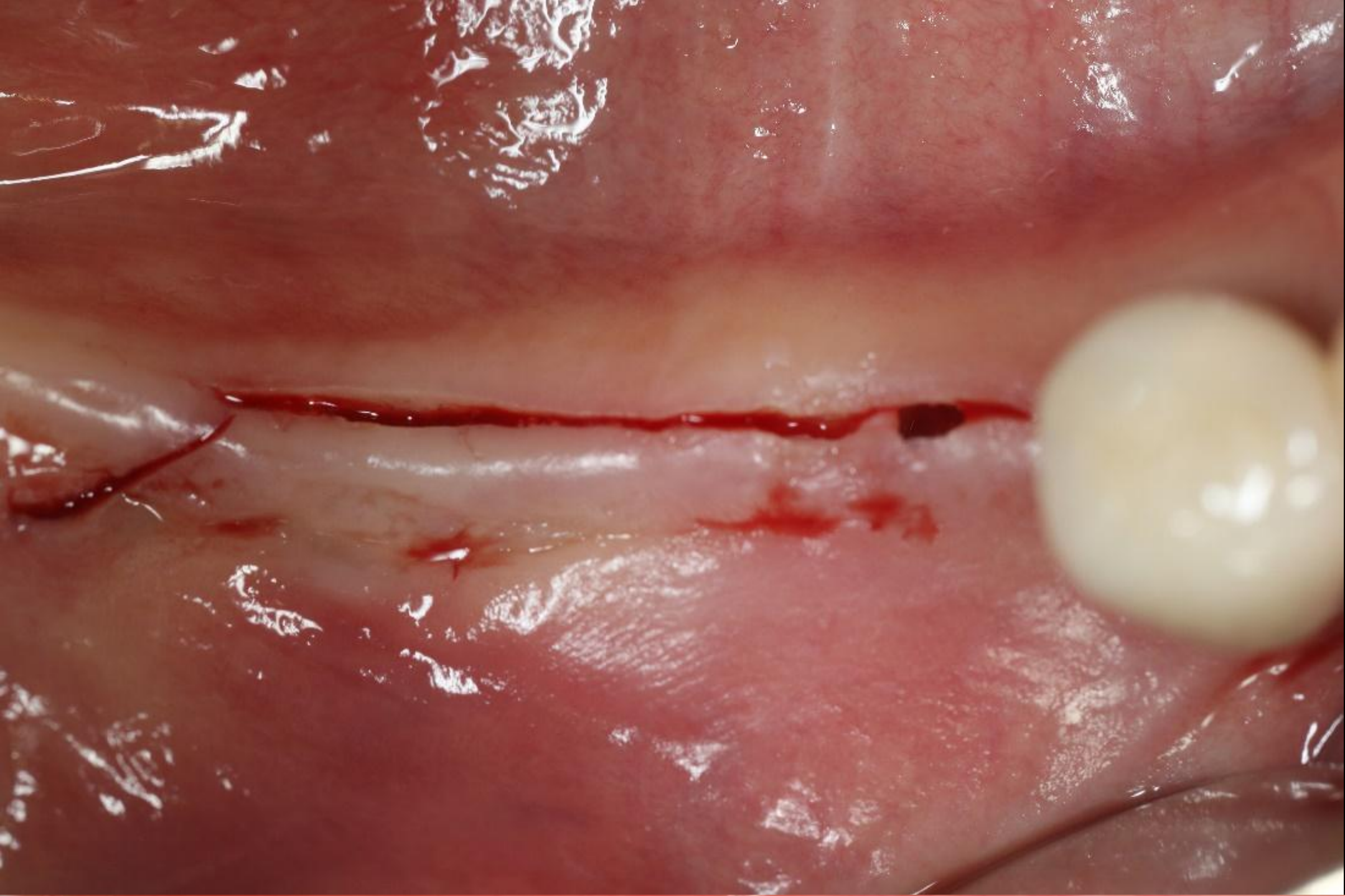
Pre-op (2021-04-08)



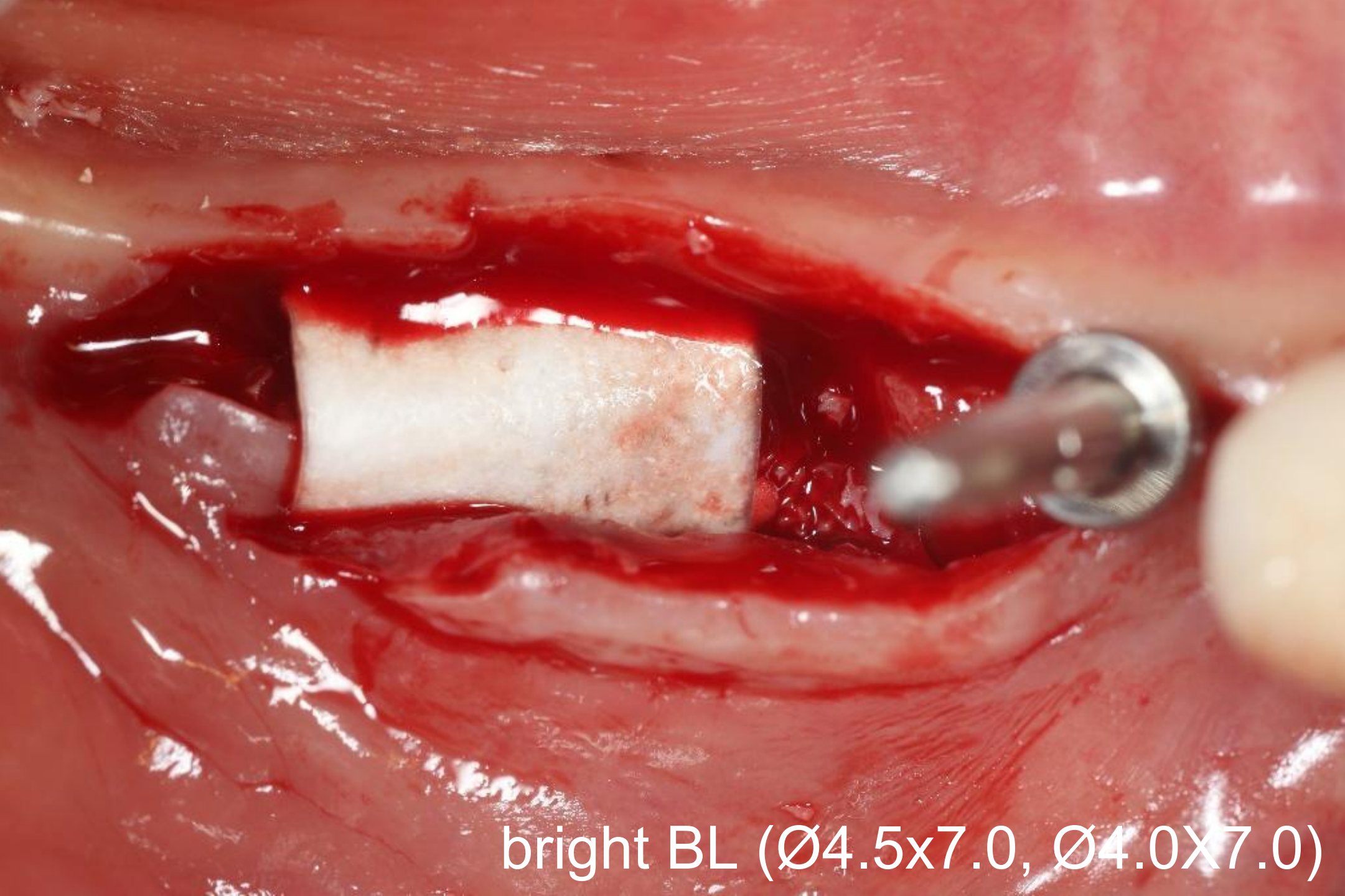
Final prosthesis (2022-05-11)



Surgery (2021-04-08)

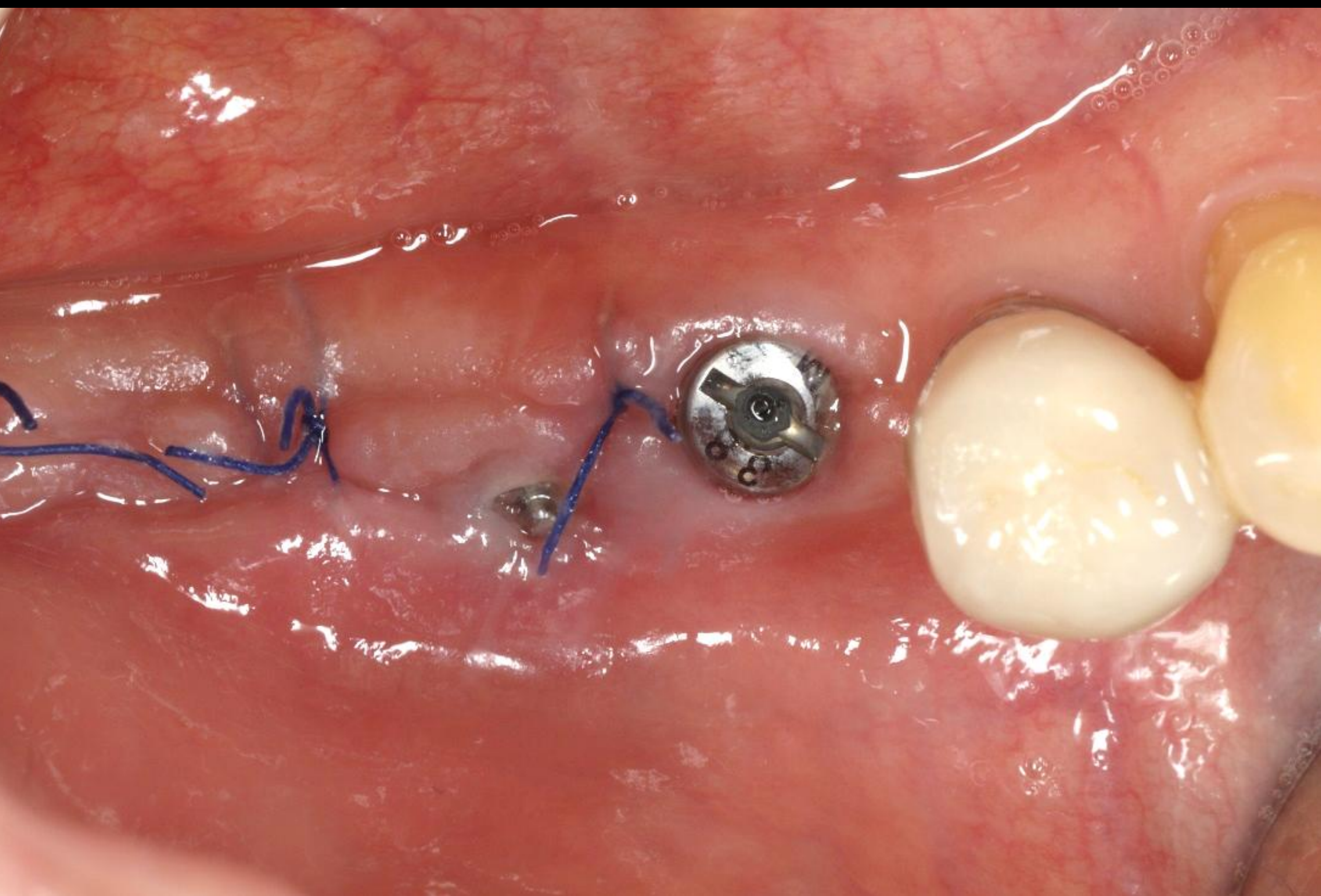


OSTEON™ Xeno

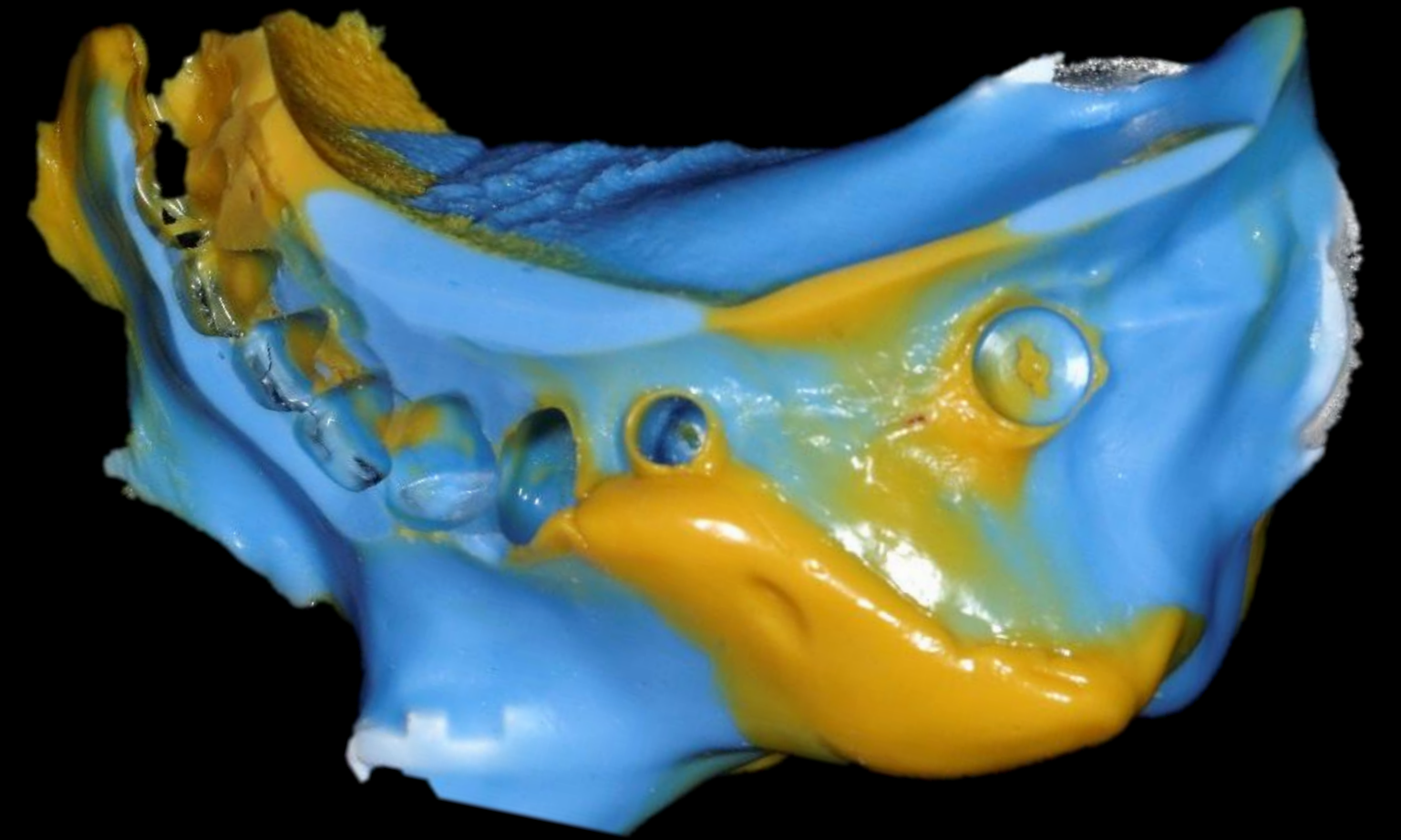


bright BL (Ø4.5x7.0, Ø4.0X7.0)

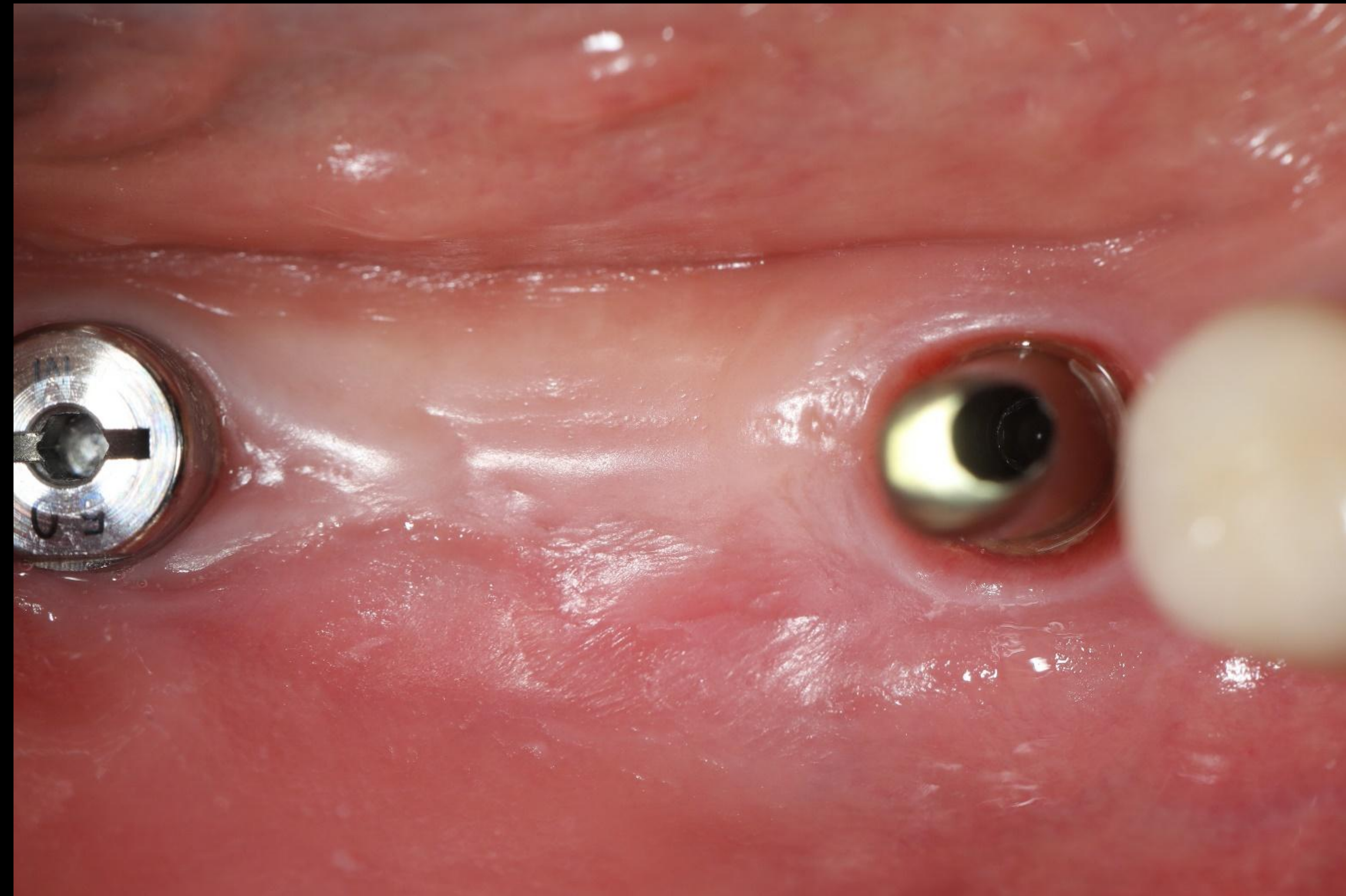
Healing : 2 weeks (2021-04-22)



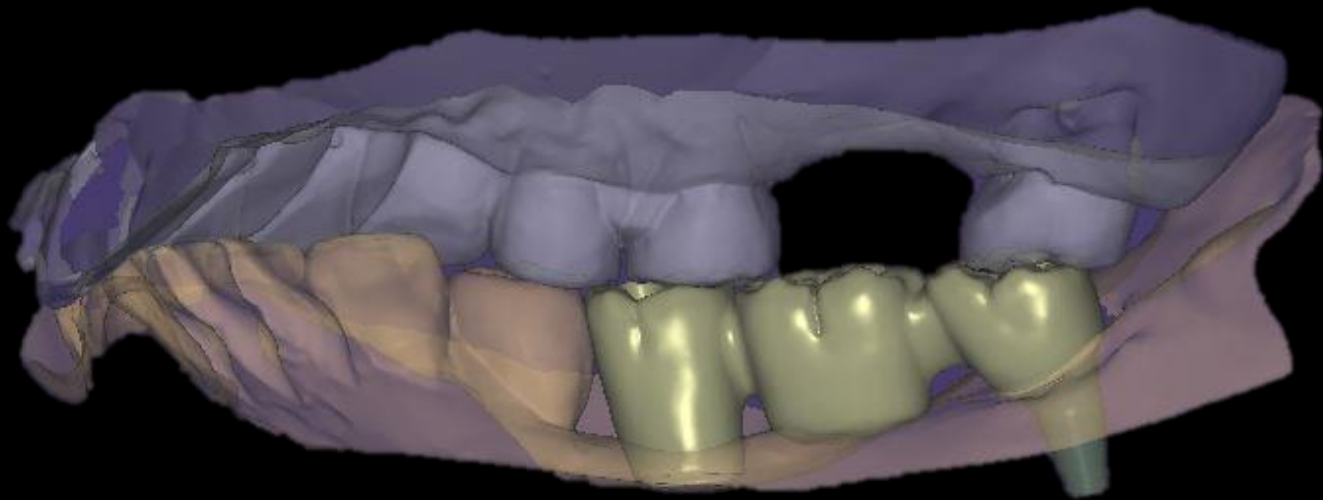
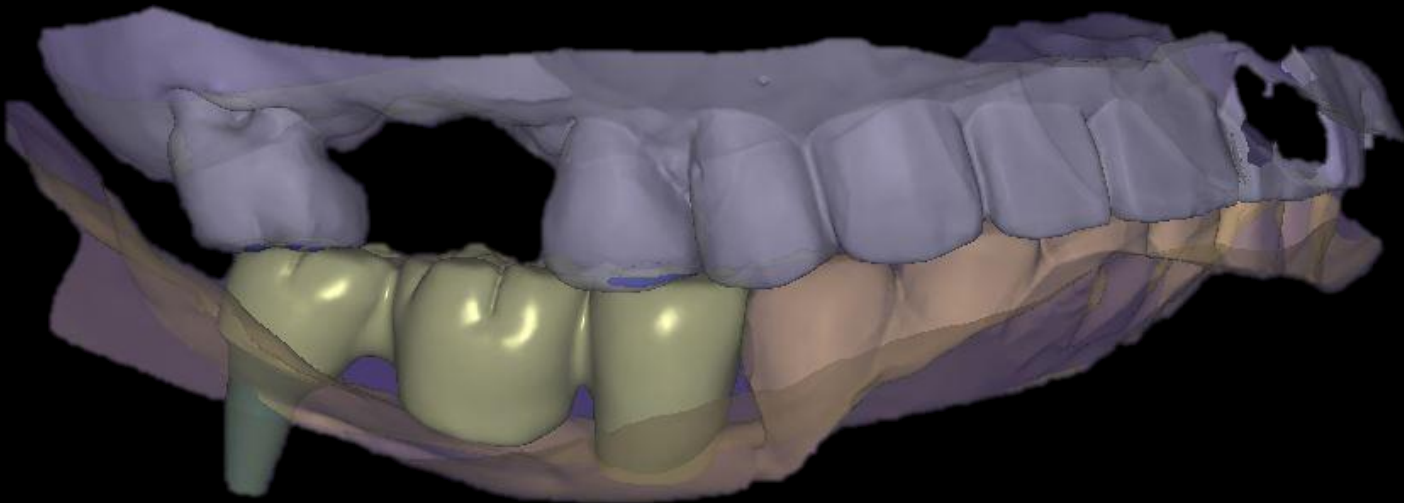
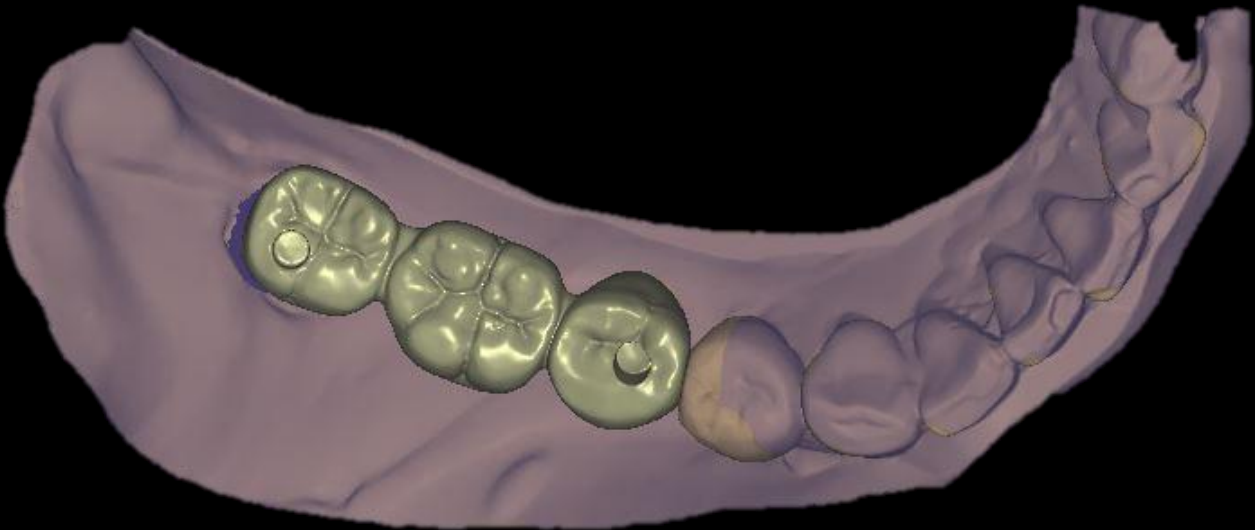
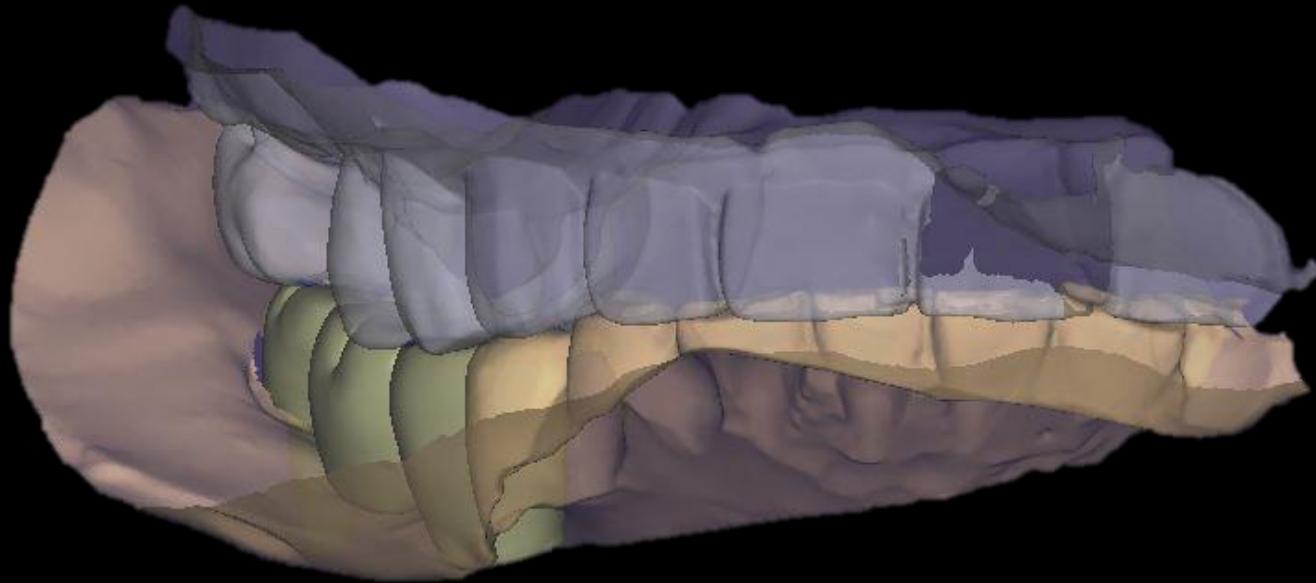
Impression trimming & Scan



Scan spray



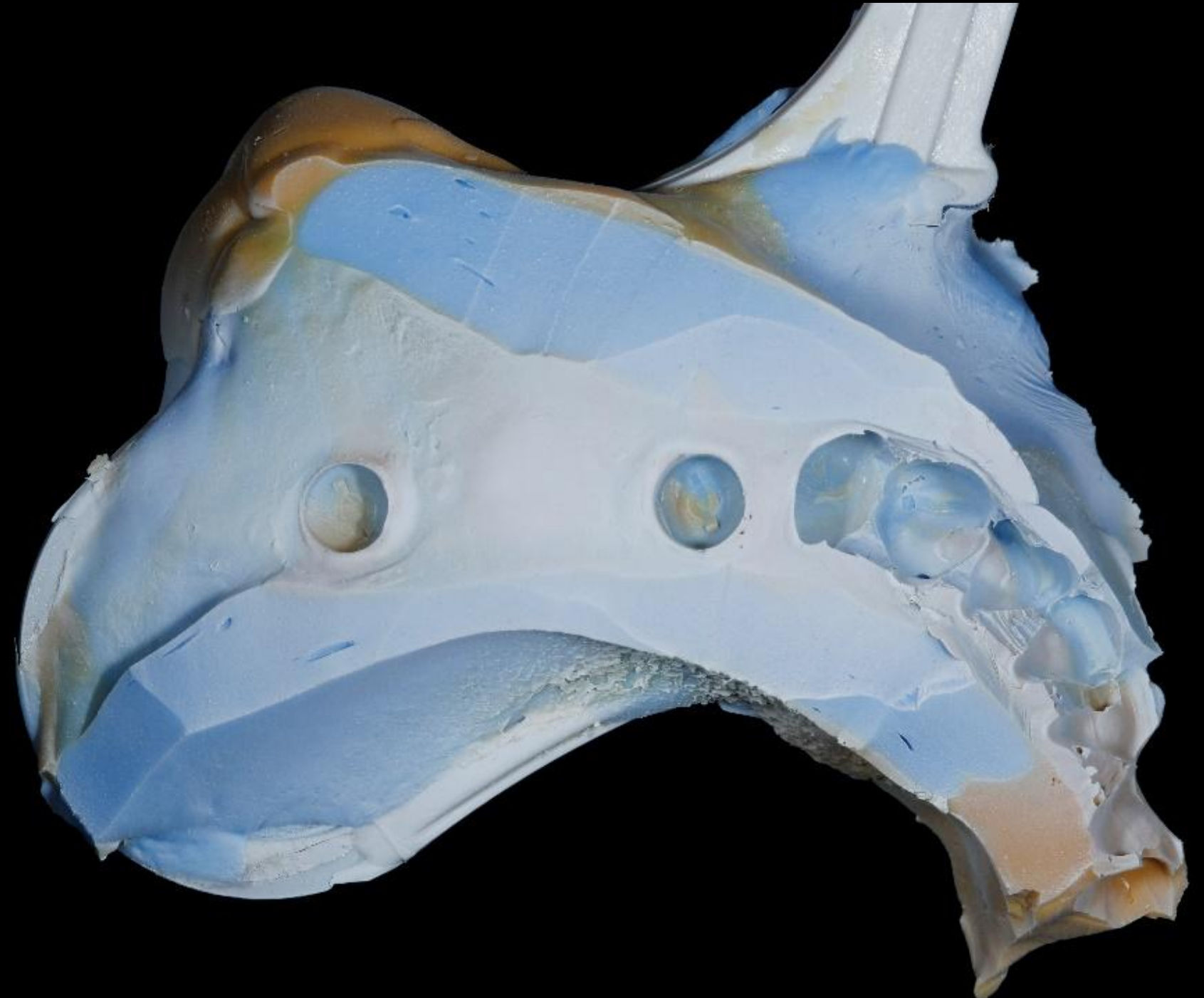
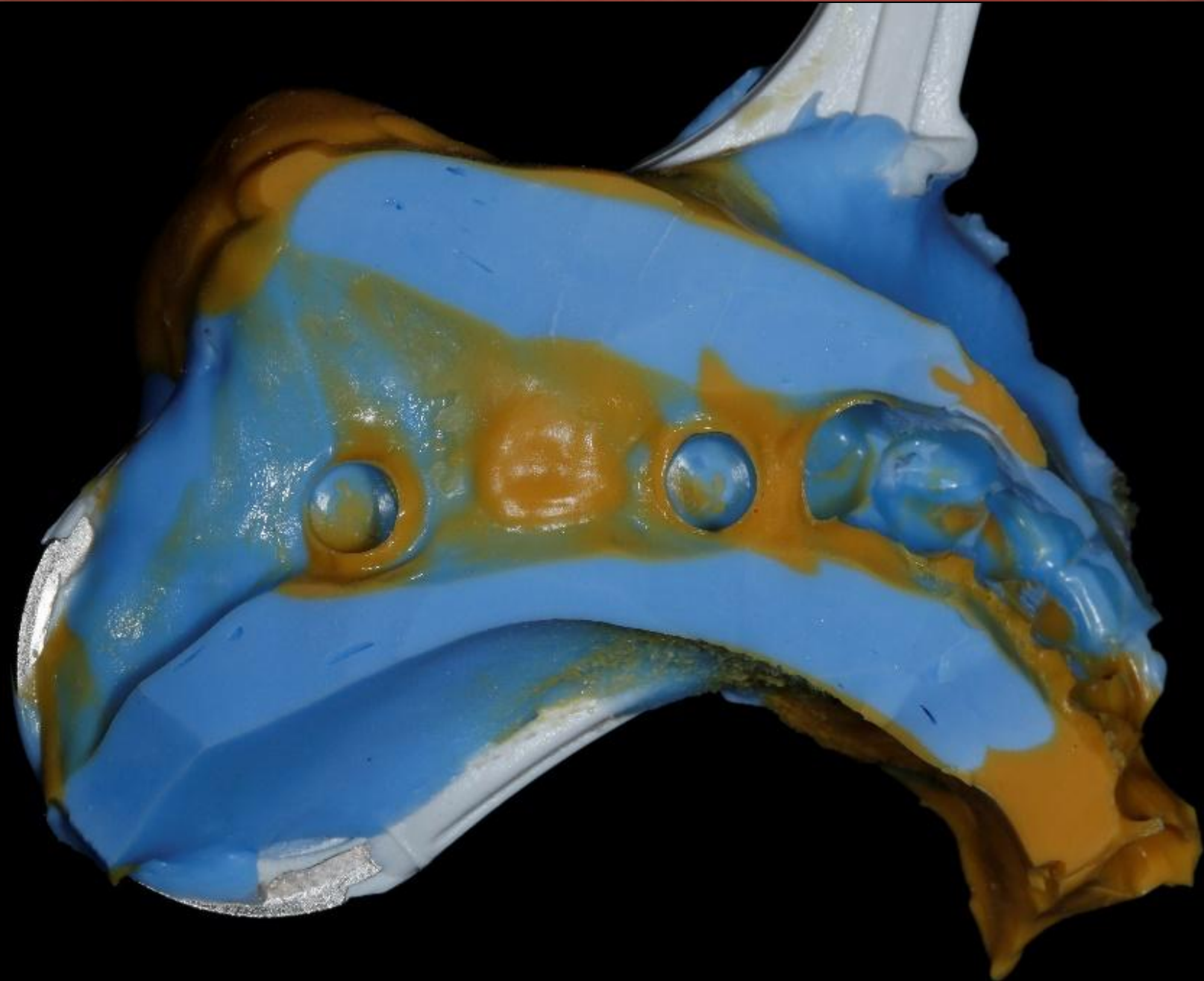
CAD Design (Temporary)



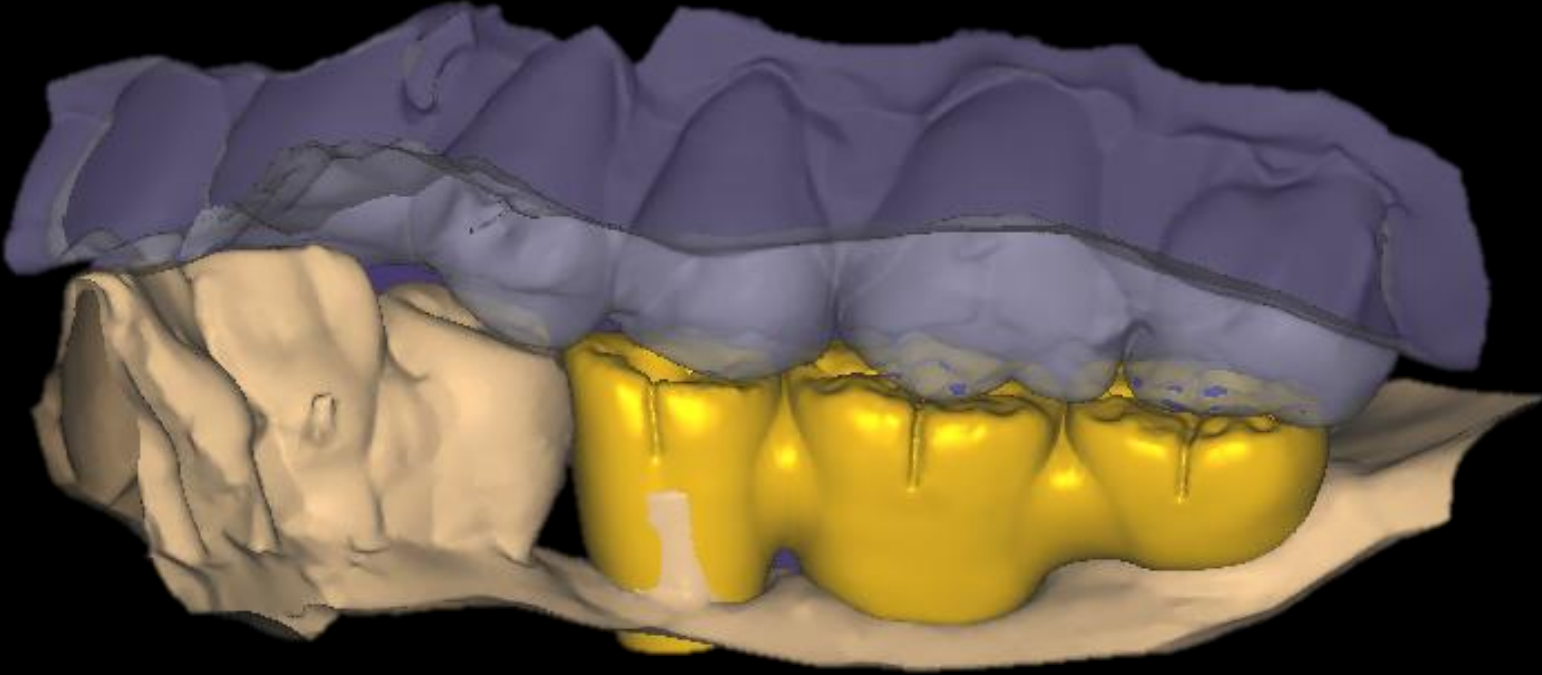
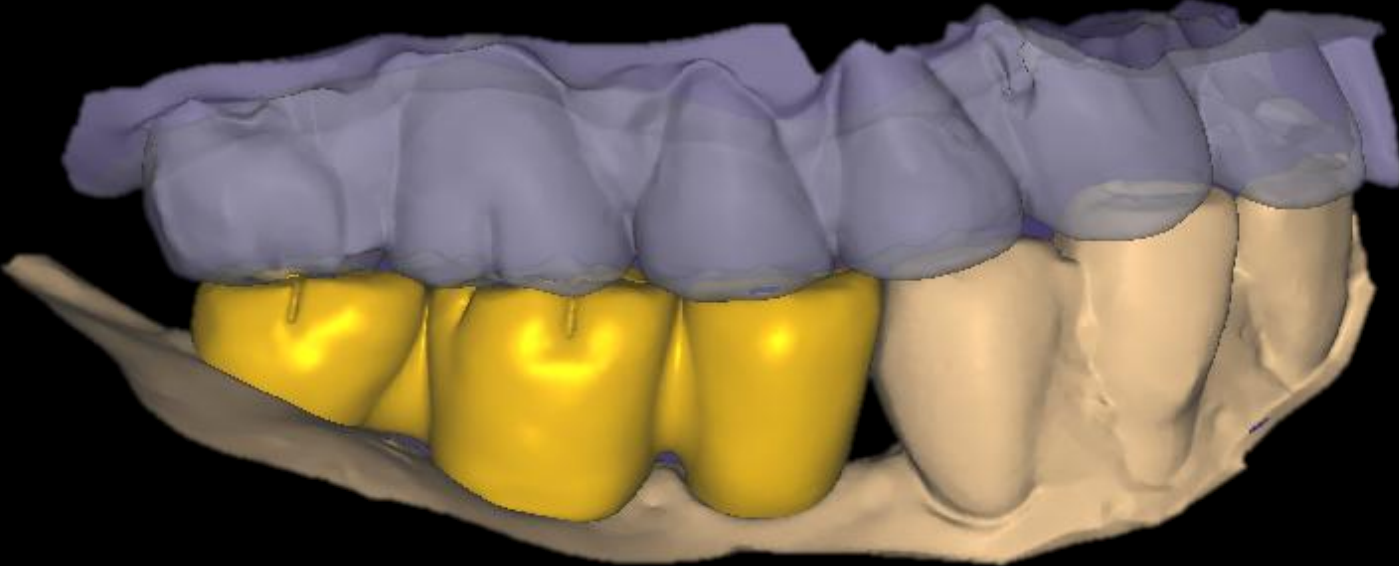
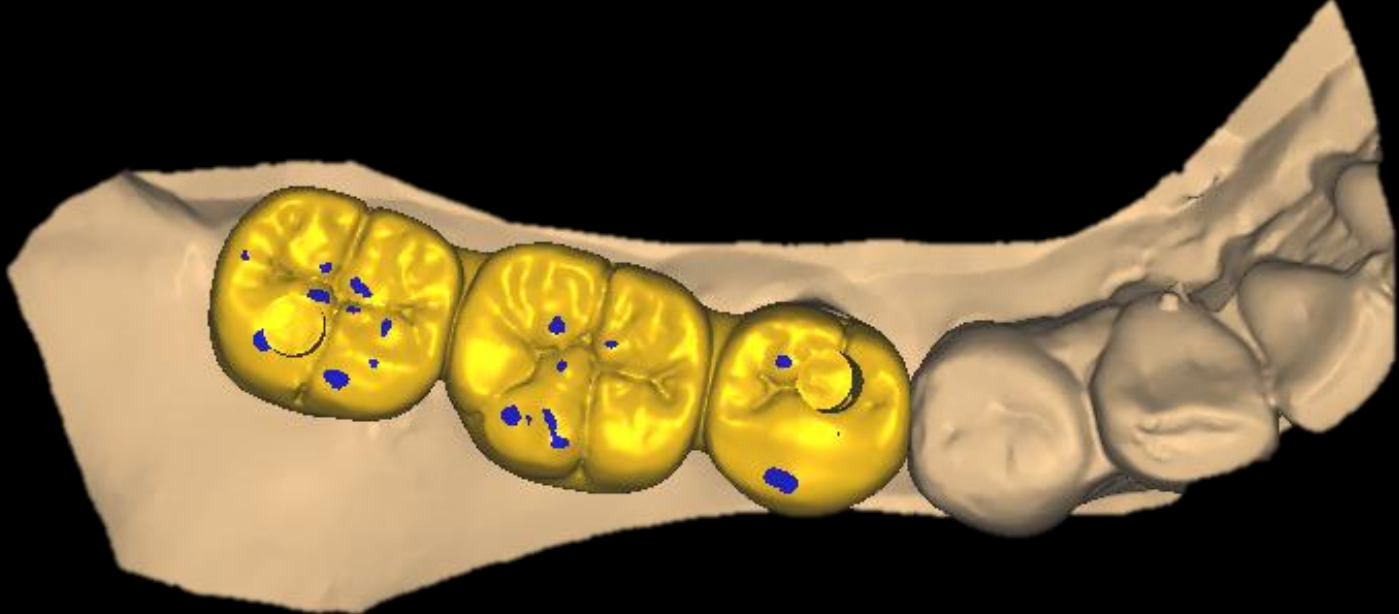
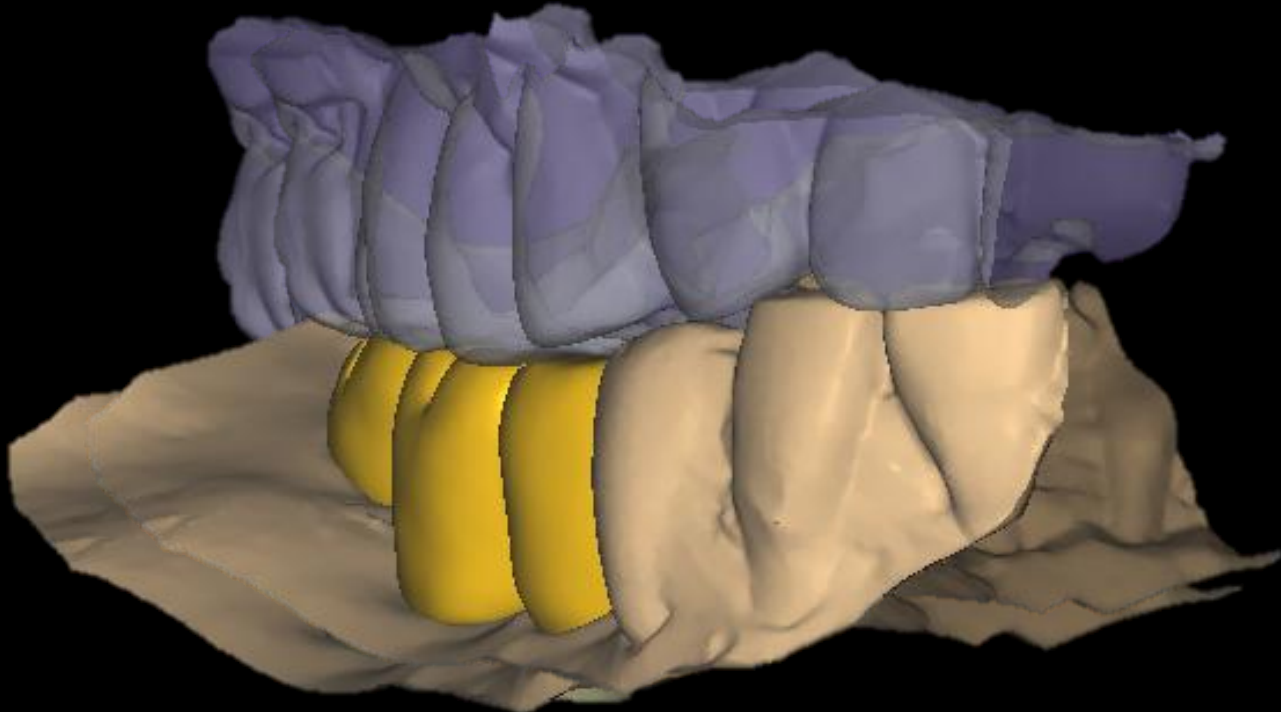
Provisional restoration (2021-08-18)



Impression (2022-05-04)



CAD Design (Final)



Milling / Coloring / Sintering / Glazing



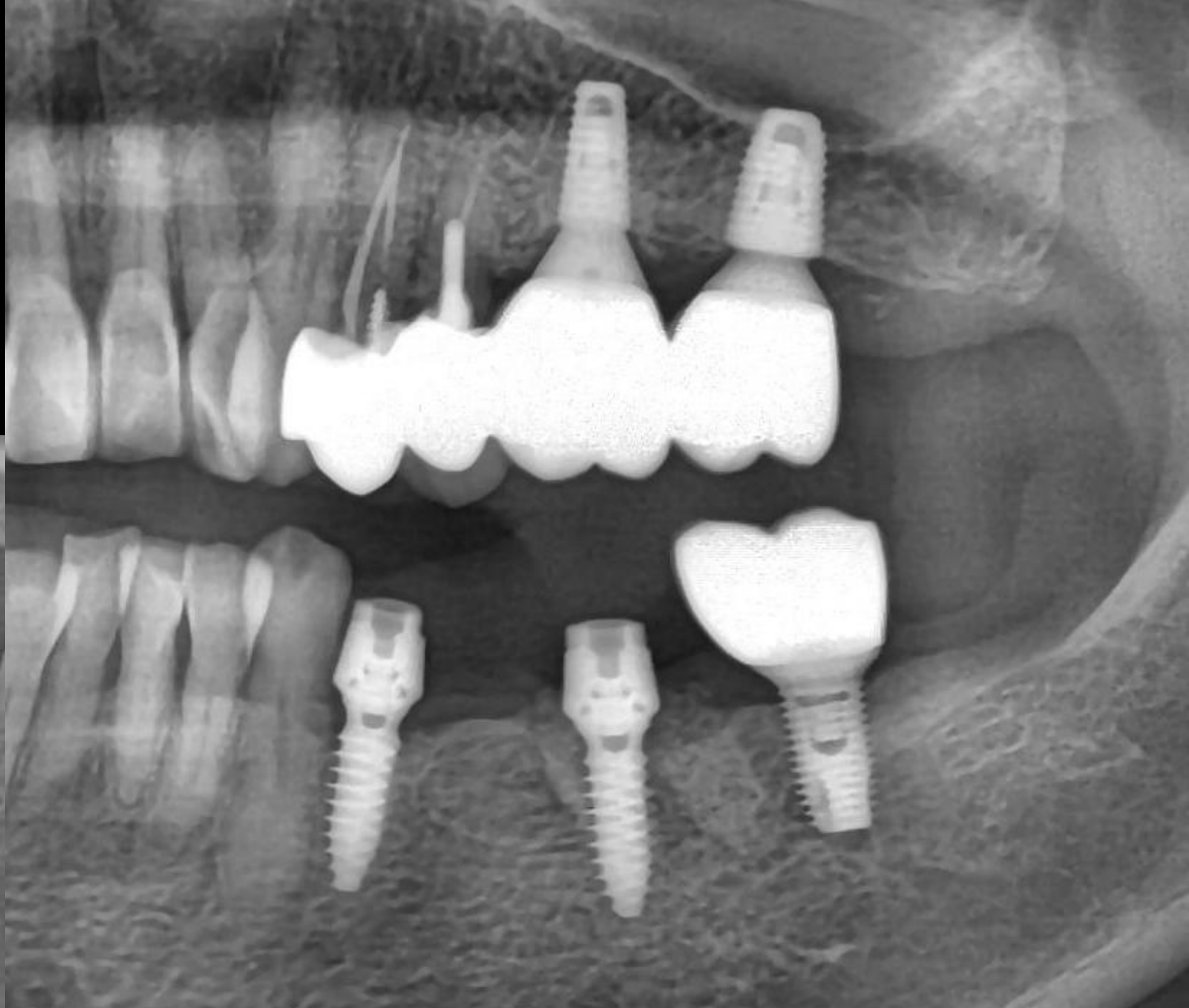
Final prosthesis (2022-05-19)



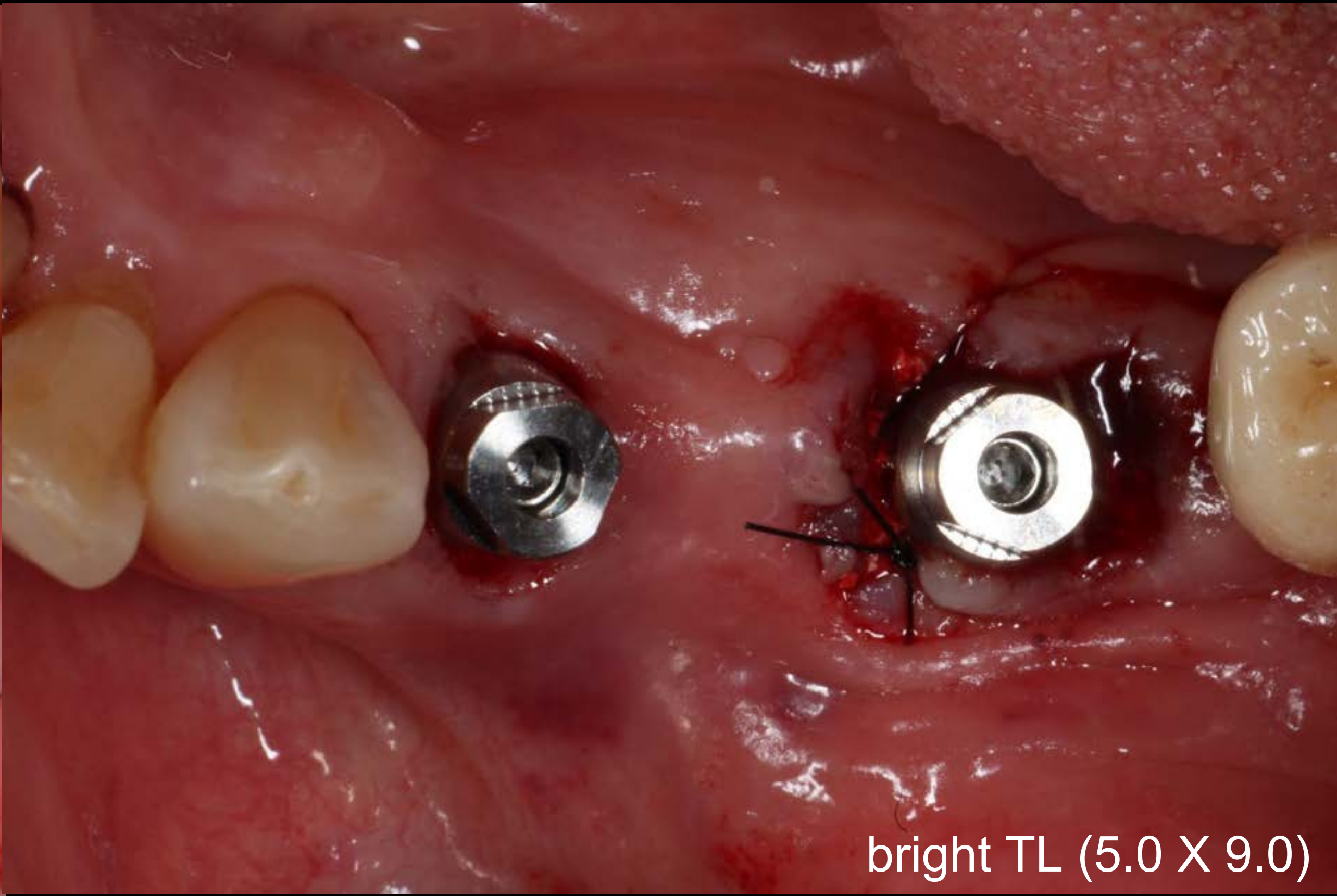
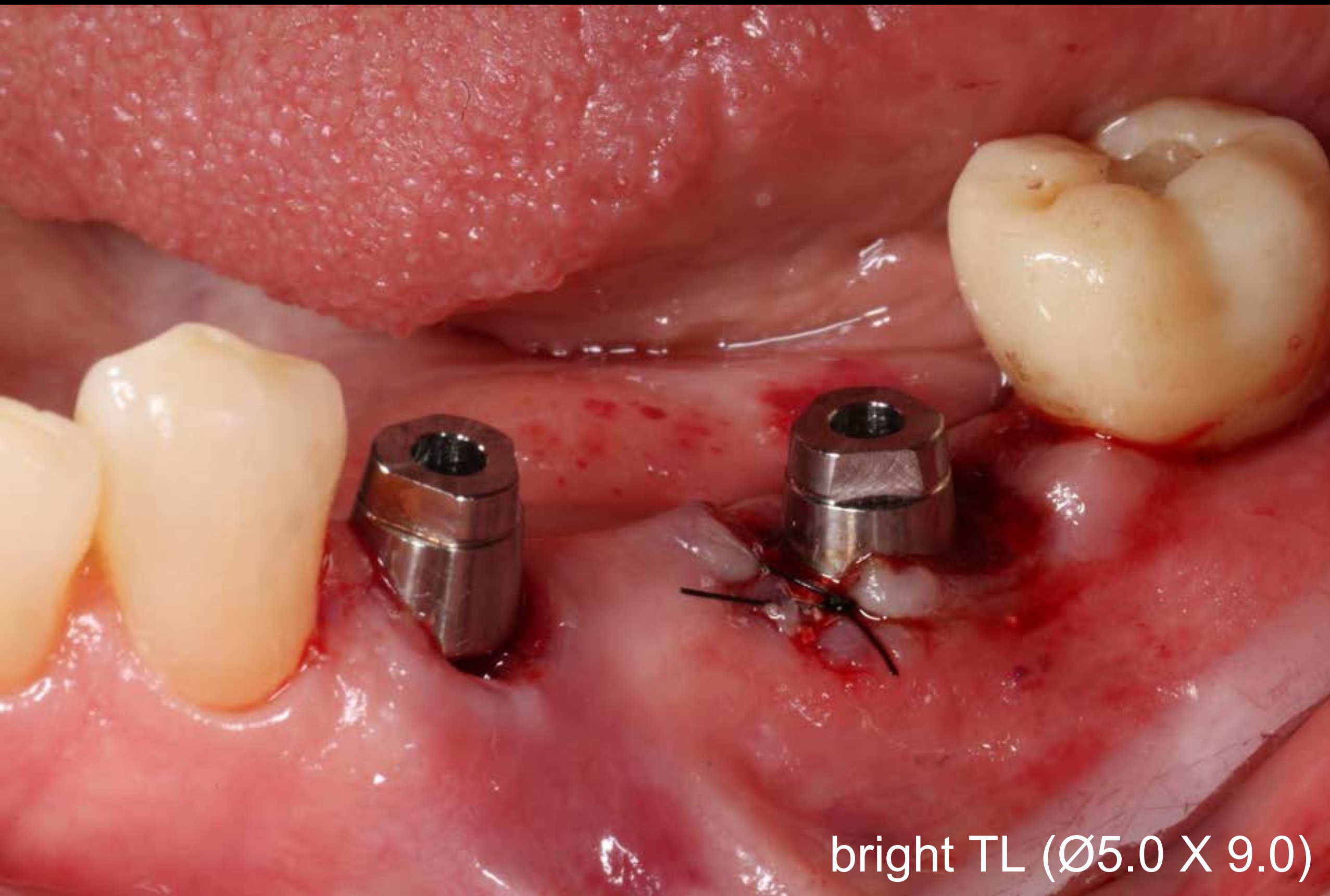
Pre-op (2023-03-08)



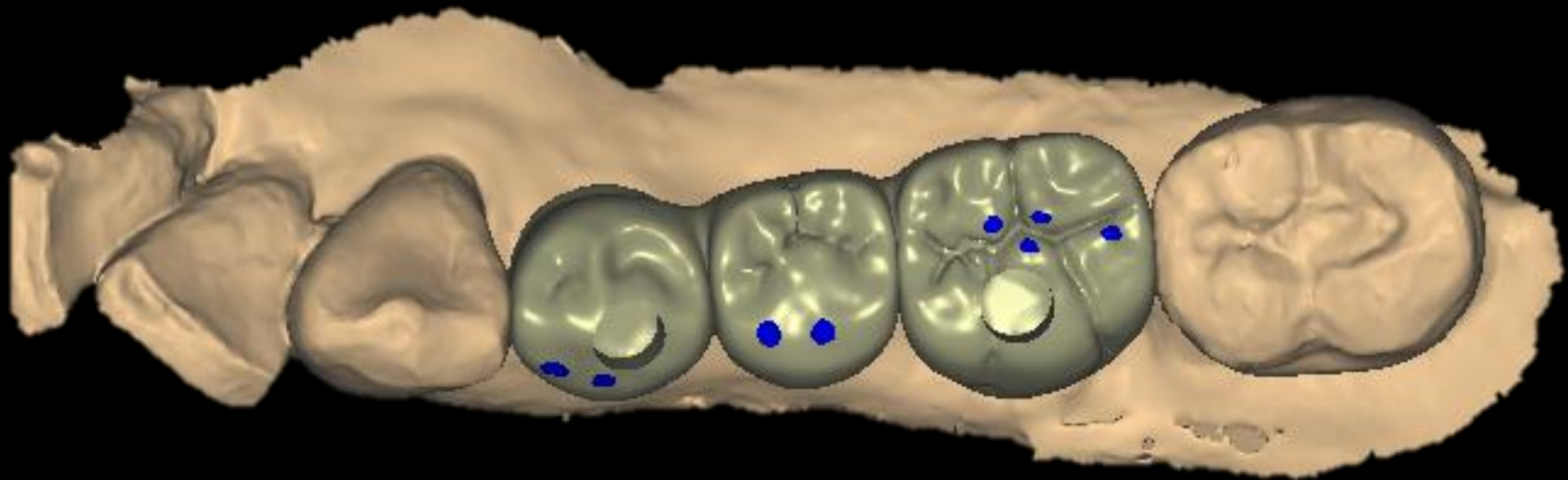
Post-op (2023-03-08)



Final prosthesis (2023-06-29)



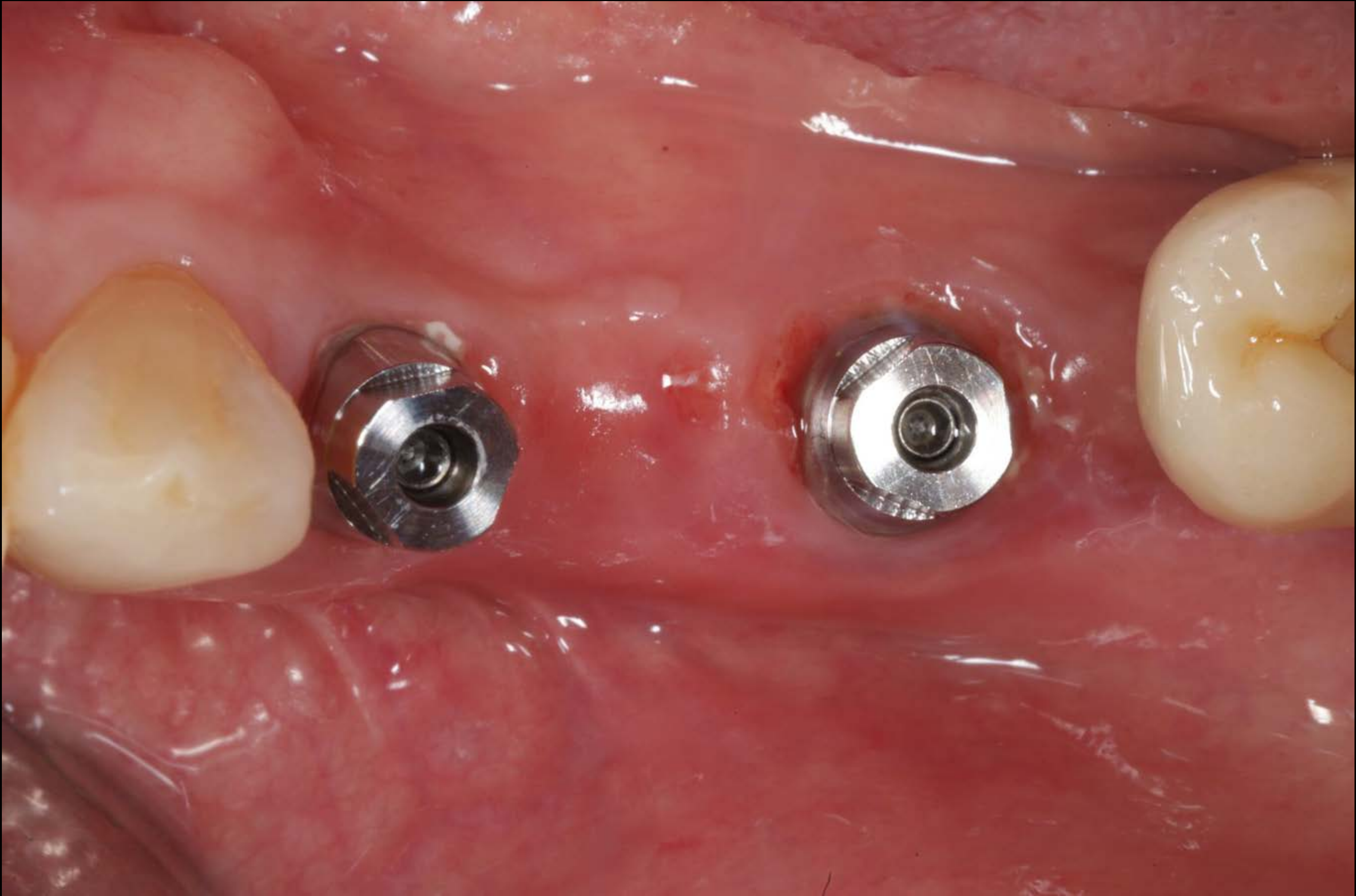
Healing : 2 weeks (2023-03-20)



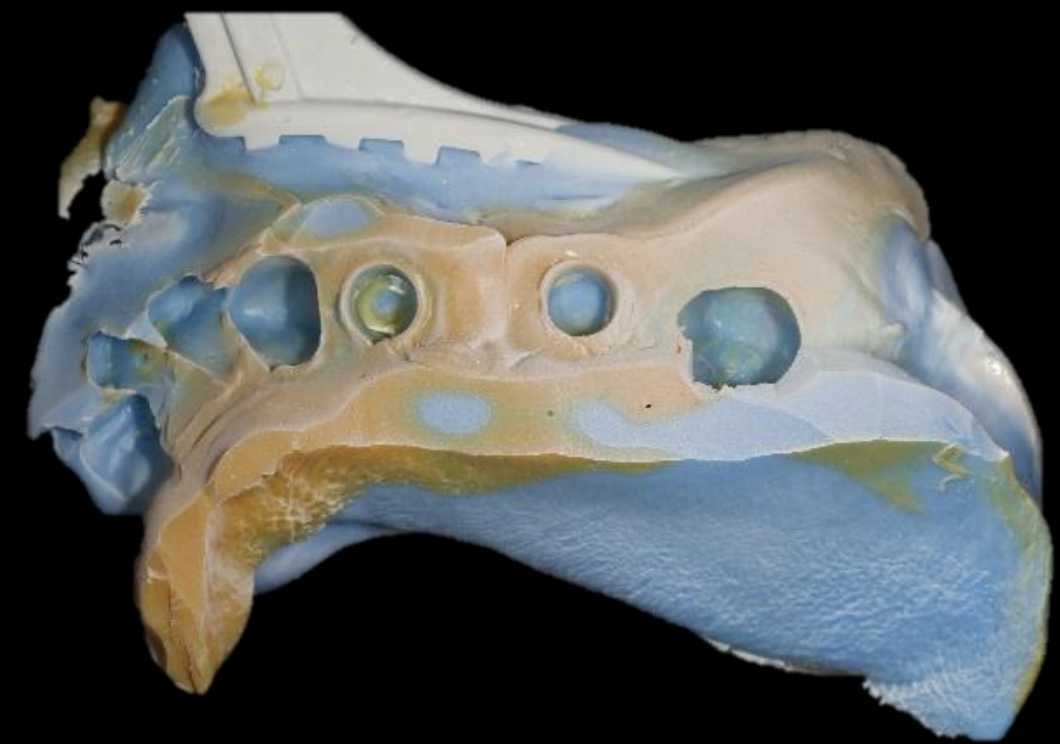
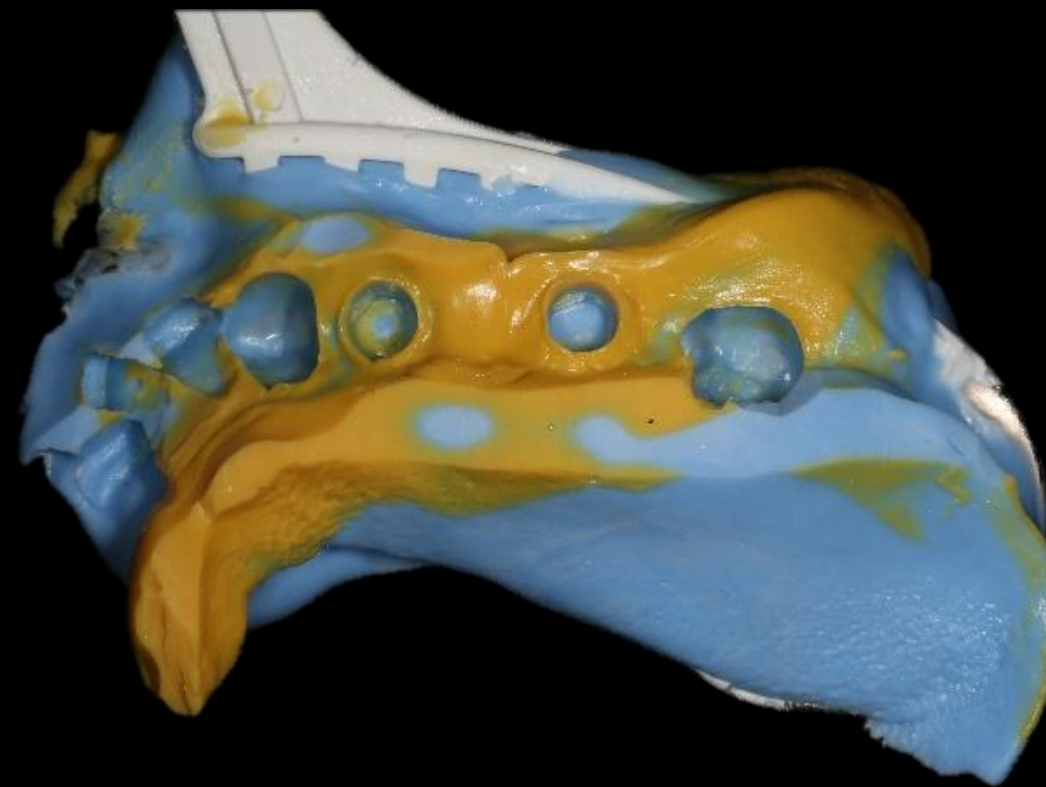
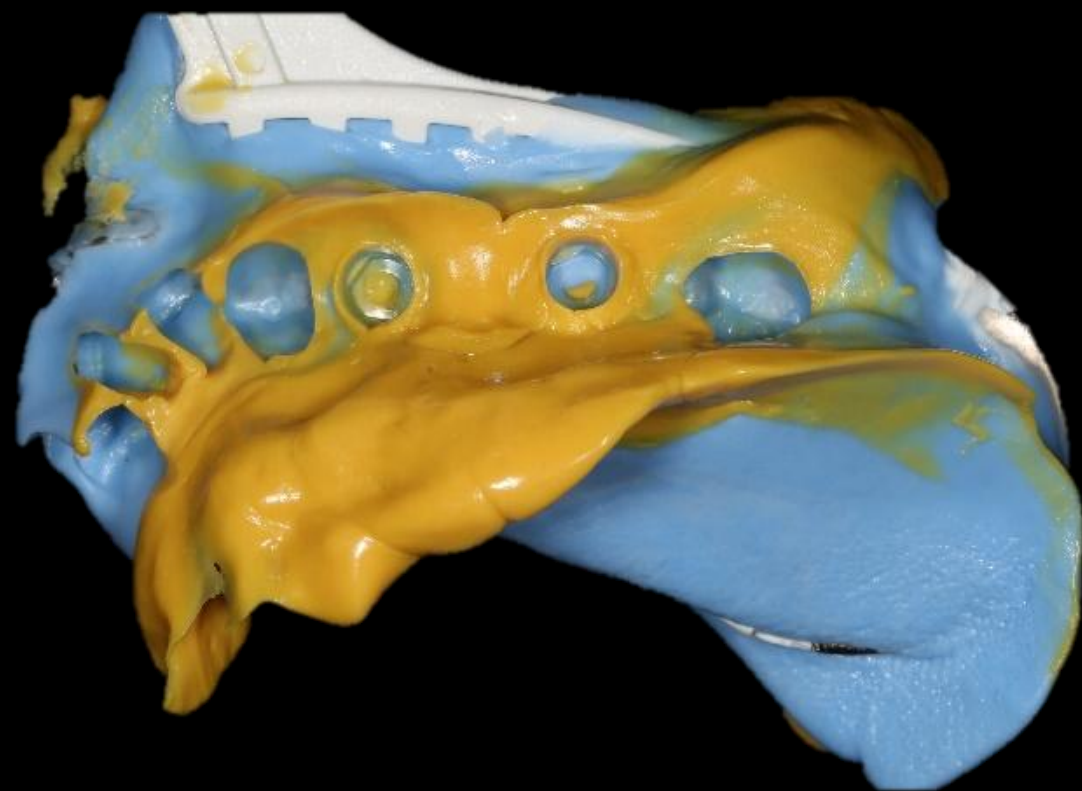
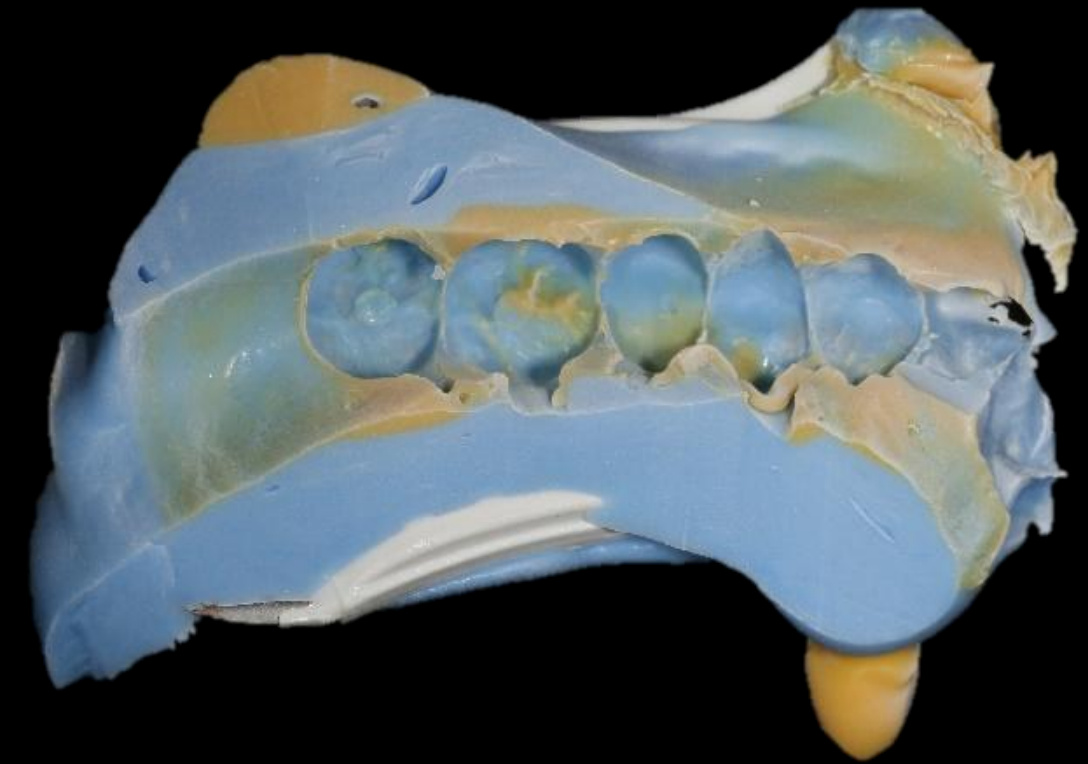
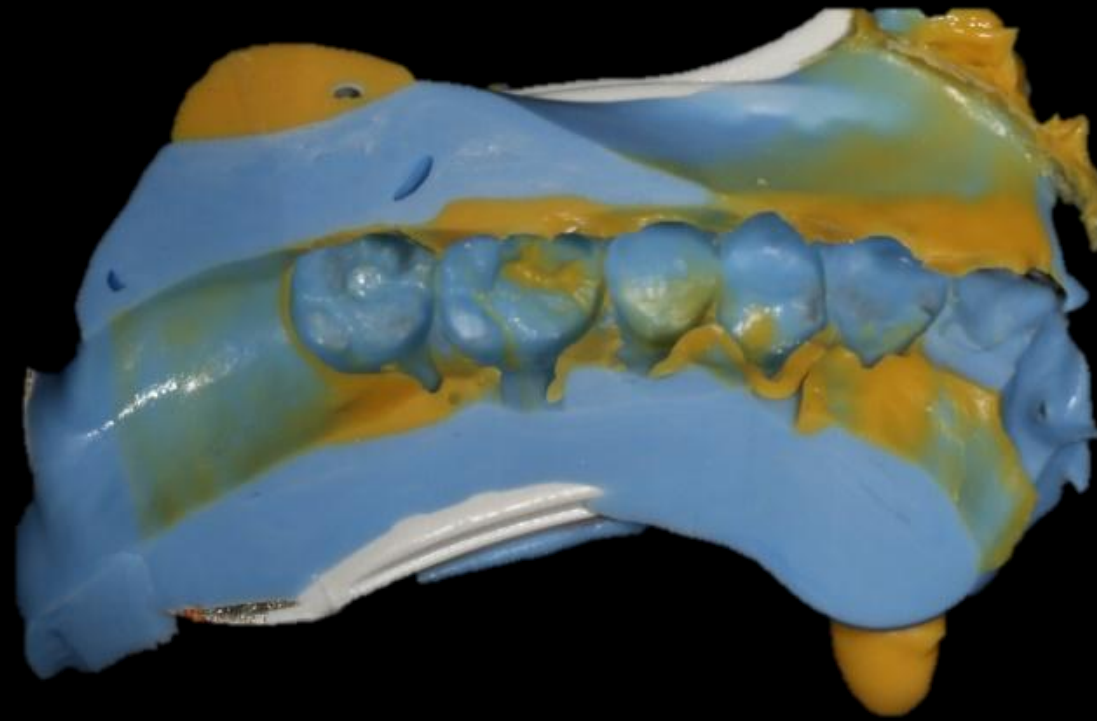
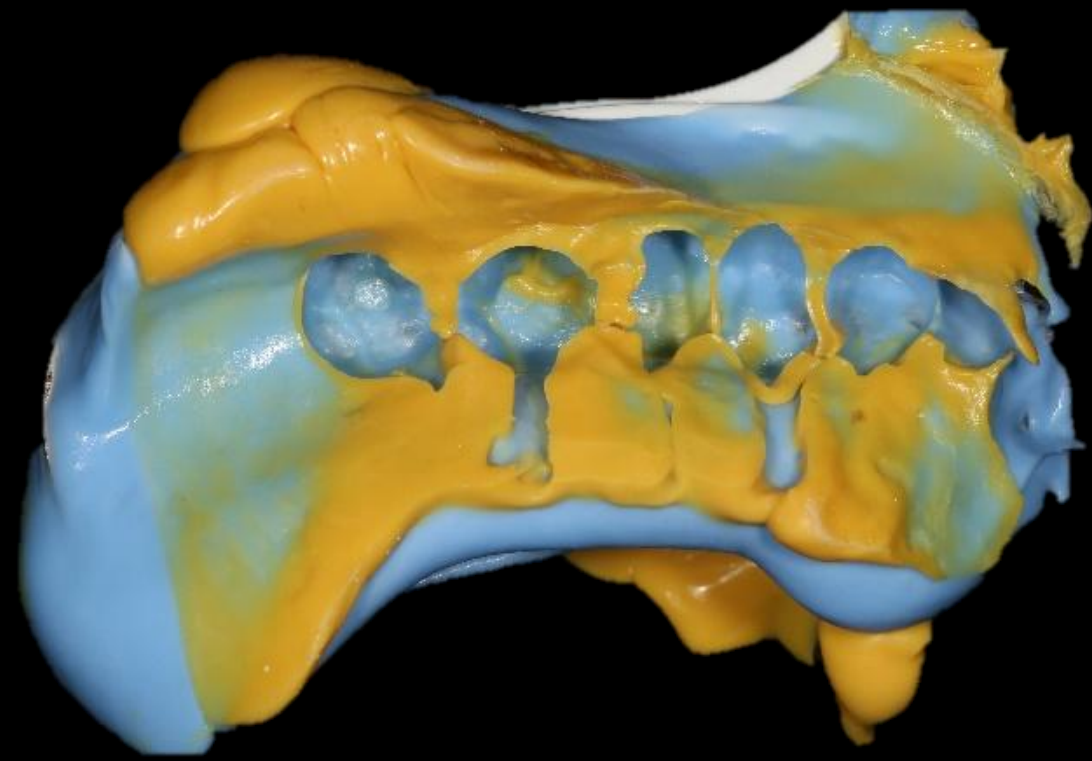
Provisional restoration (2023-06-07)



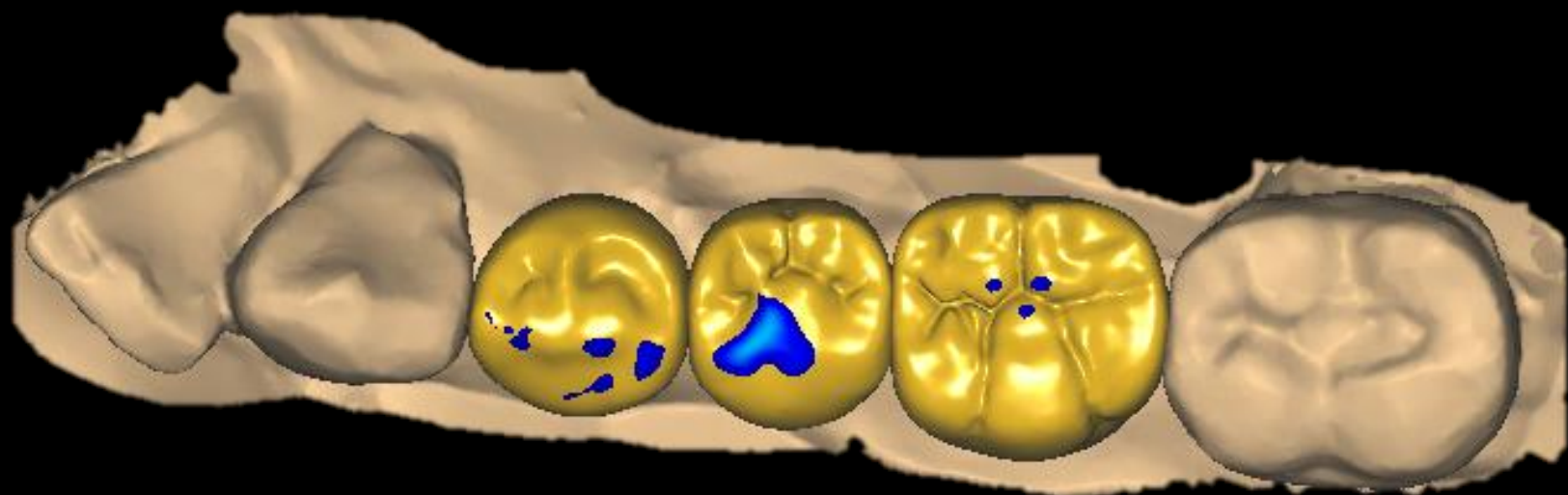
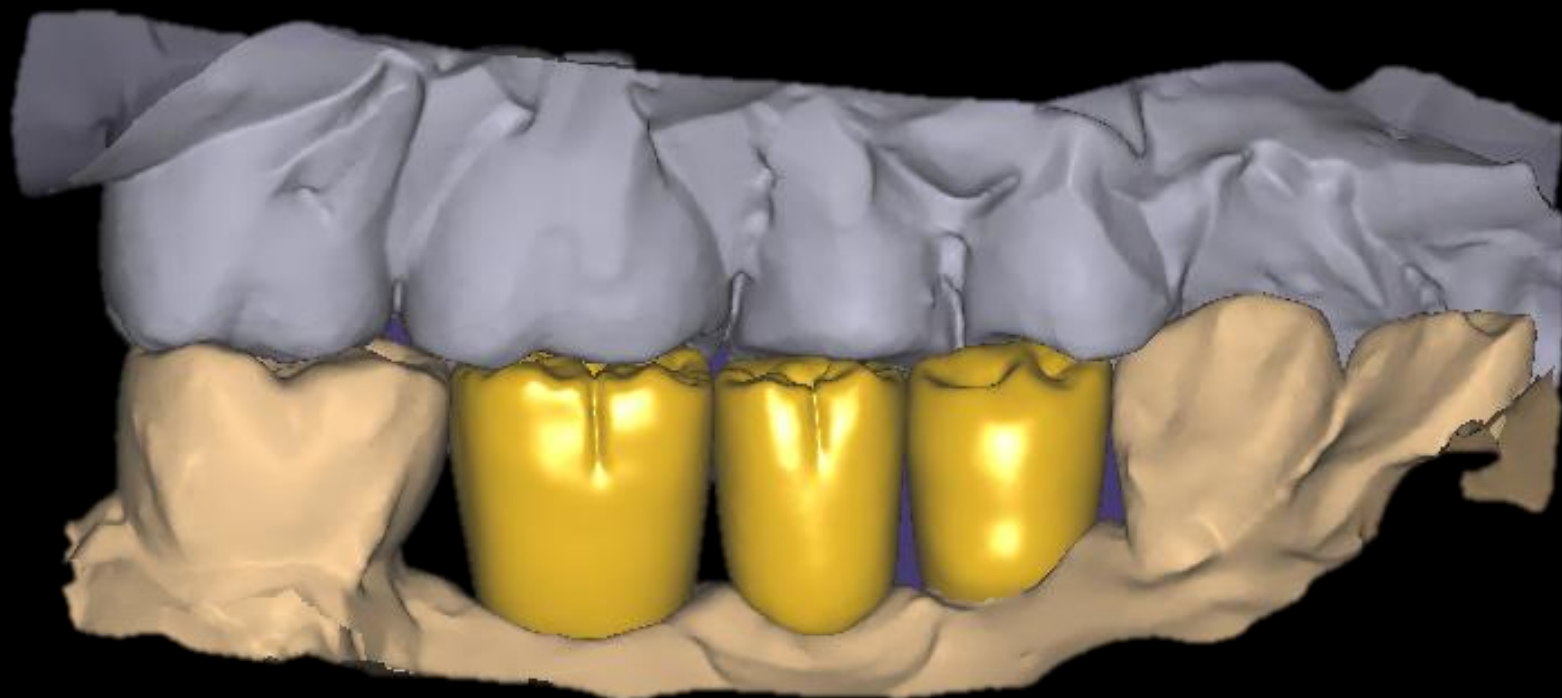
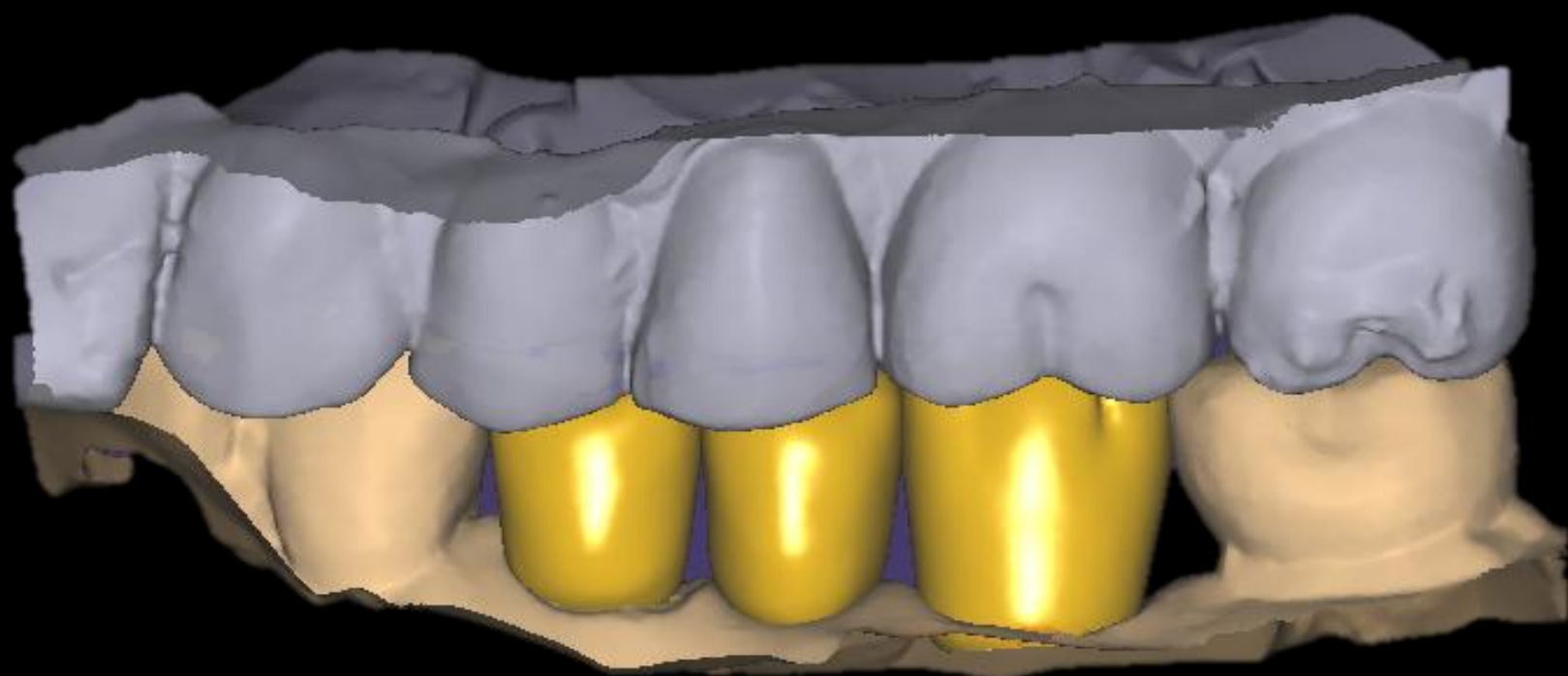
Final Impression (2023-06-07)



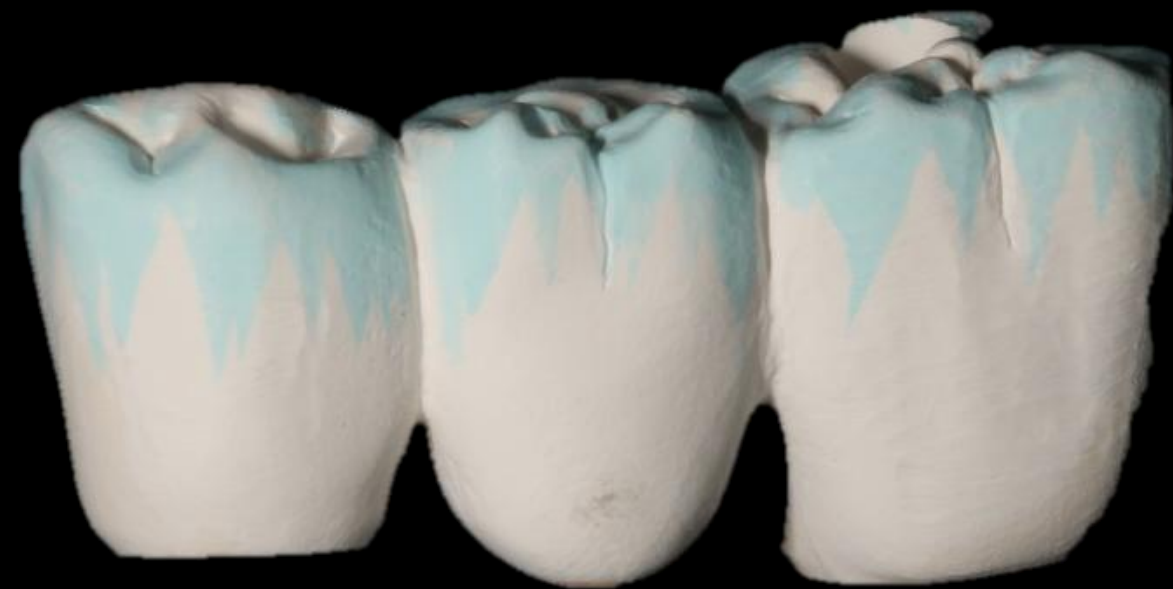
Impression / Trimming / Scan spray



CAD (Final prosthesis)



Milling / Coloring / Sintering / Glazing



Final prosthesis(2023-06-29)



IOS

Good for straight line in molar, even in bridge 4 to 5 crown

Shining 3d IOS is good in free end case and precise occlusion

Oral exam (2024-08-27)



Final prosthesis (2025-01-22)



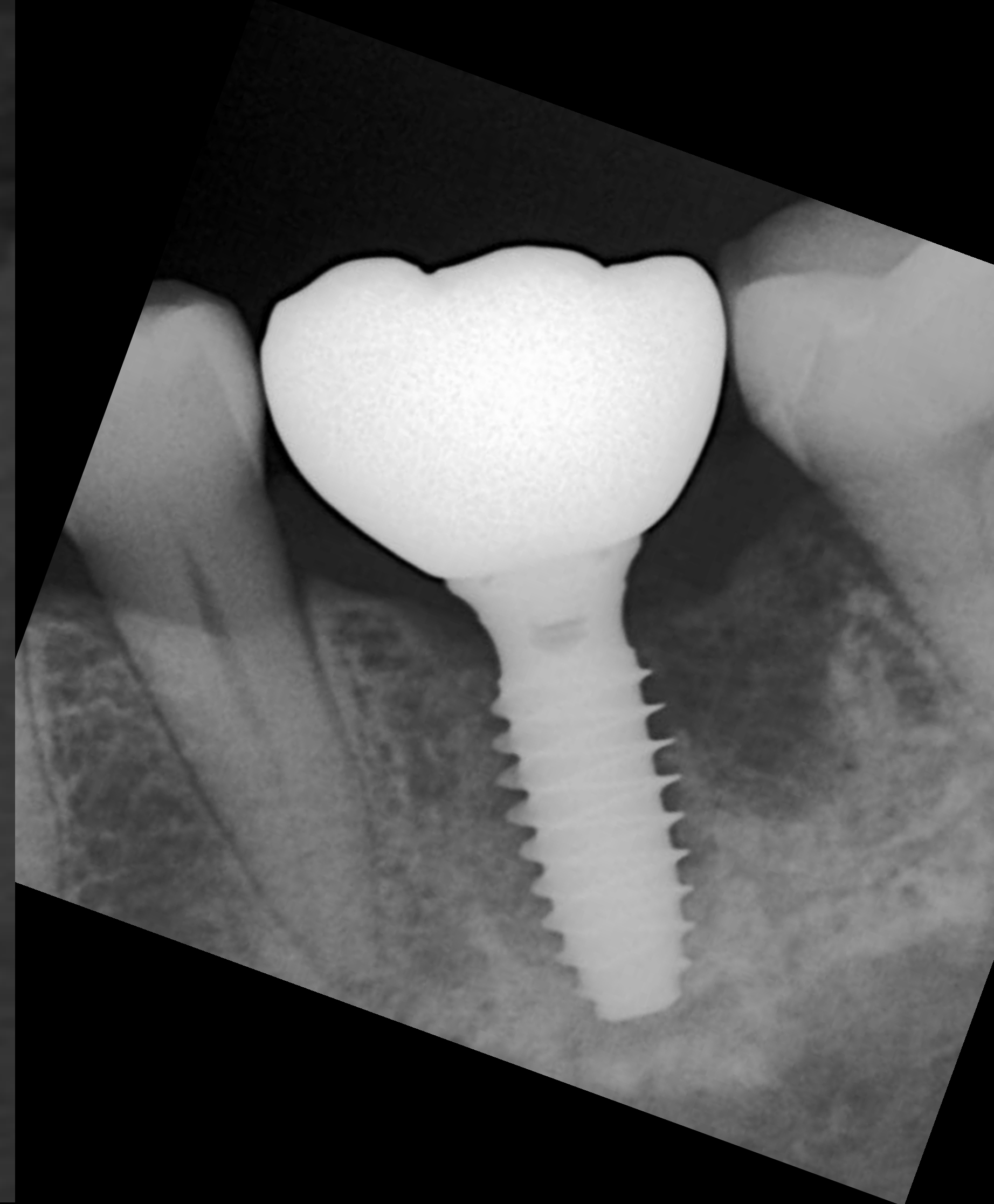
Pre-op CT (2025-01-07)



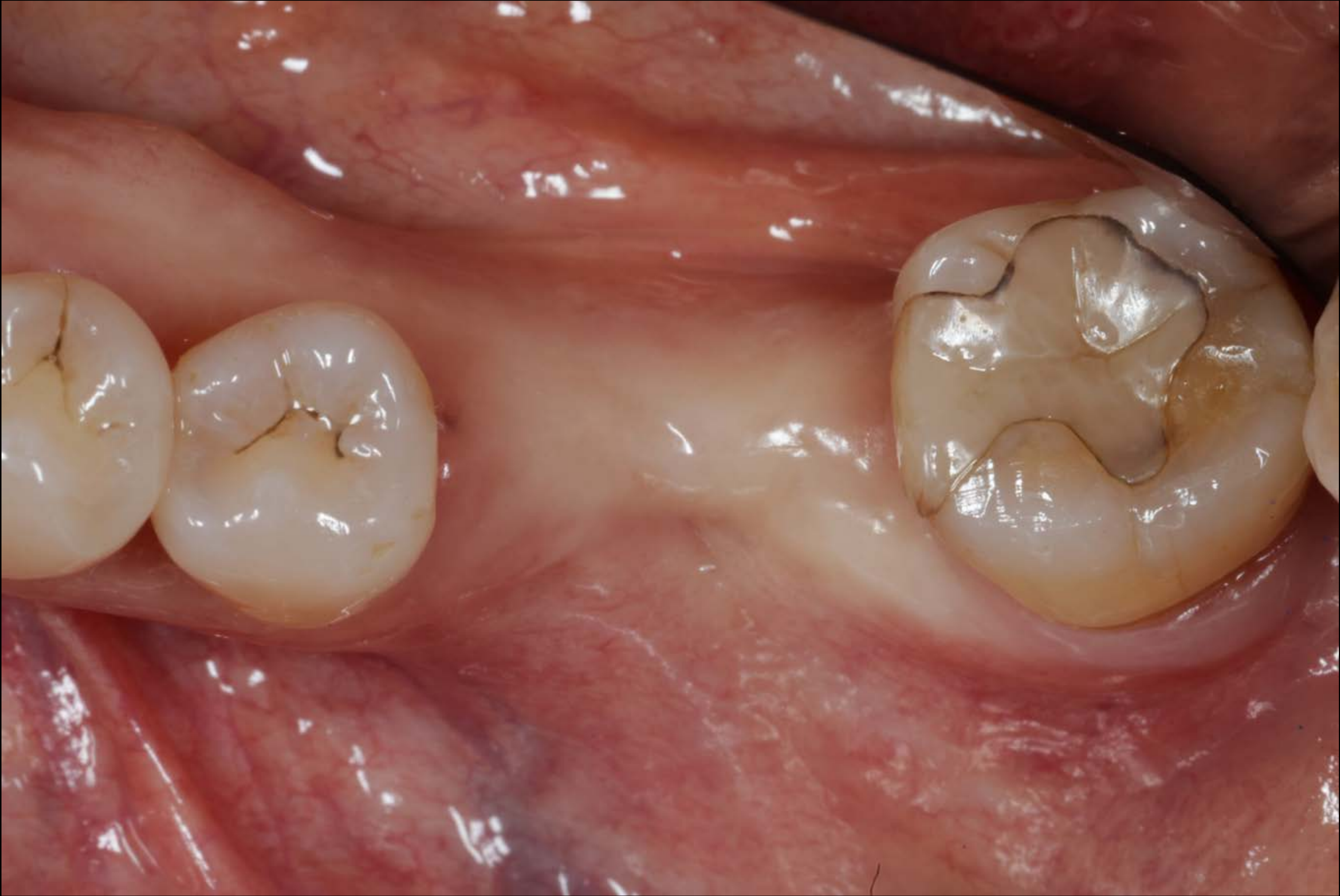
Post-op CT (2025-01-07)



Follow up : 1 month (2025-02-15)



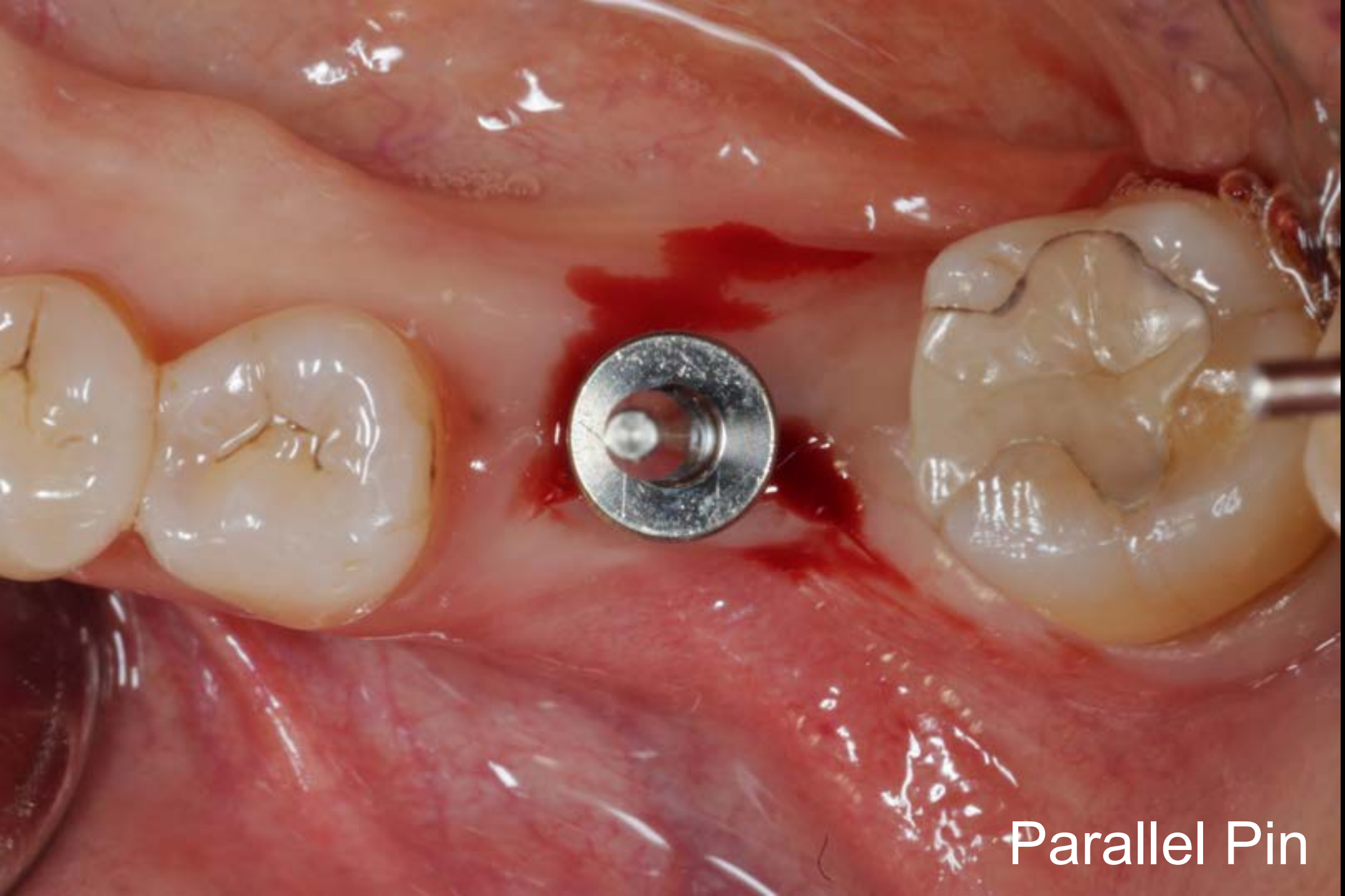
Pre-op (2025-01-07)



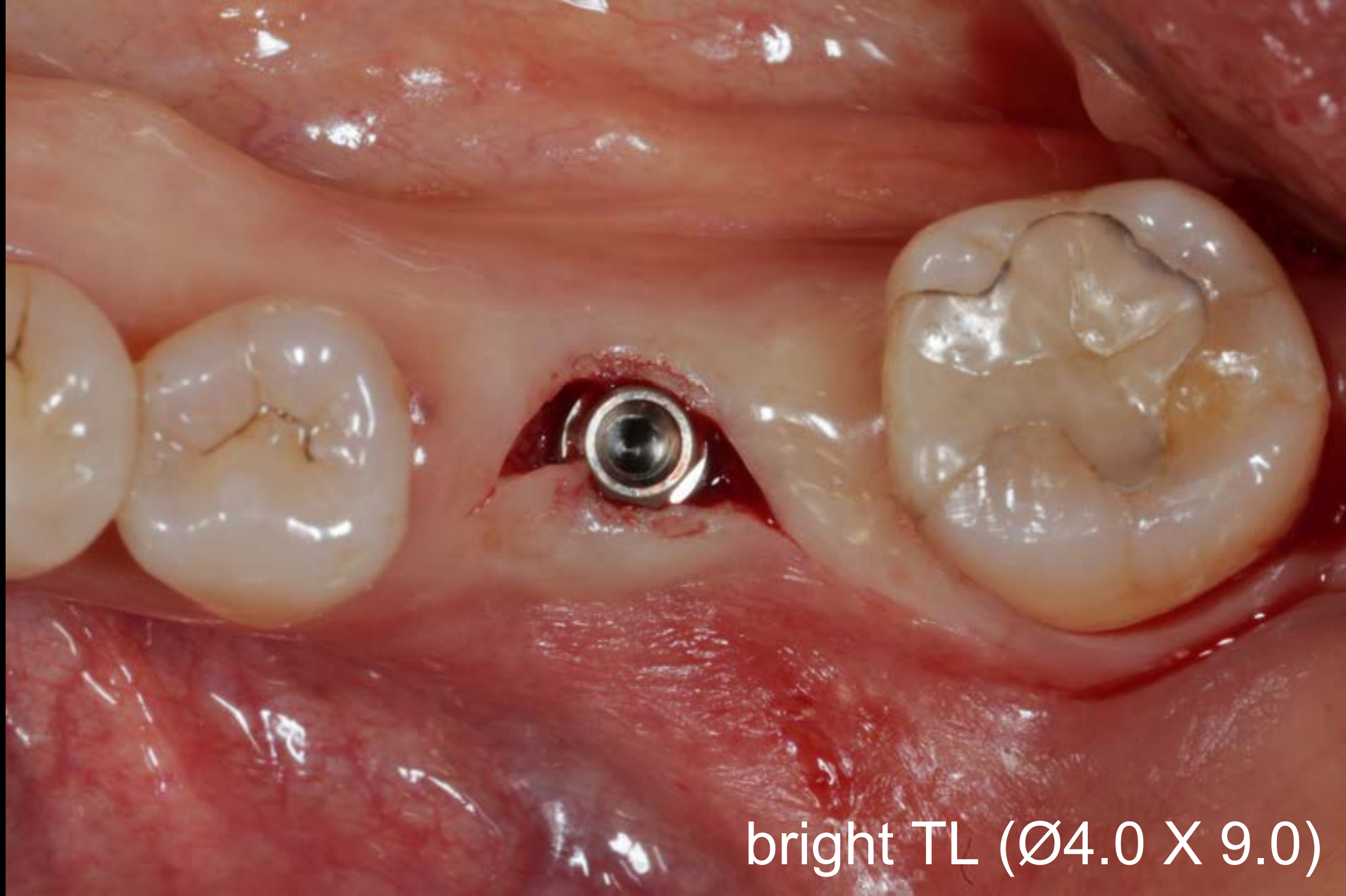
Surgery (2025-01-07)



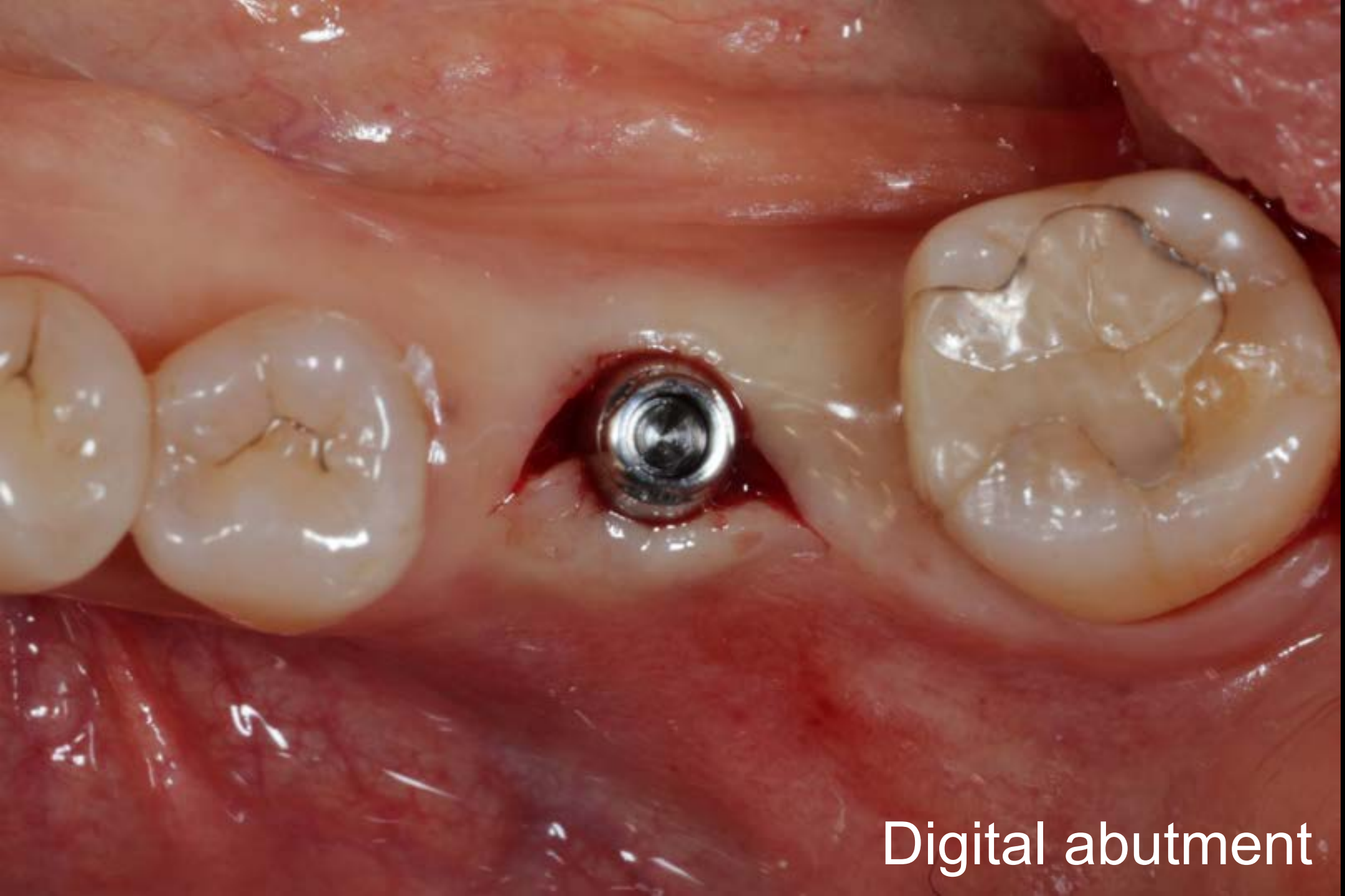
Semilunar Incision



Parallel Pin



bright TL (Ø4.0 X 9.0)

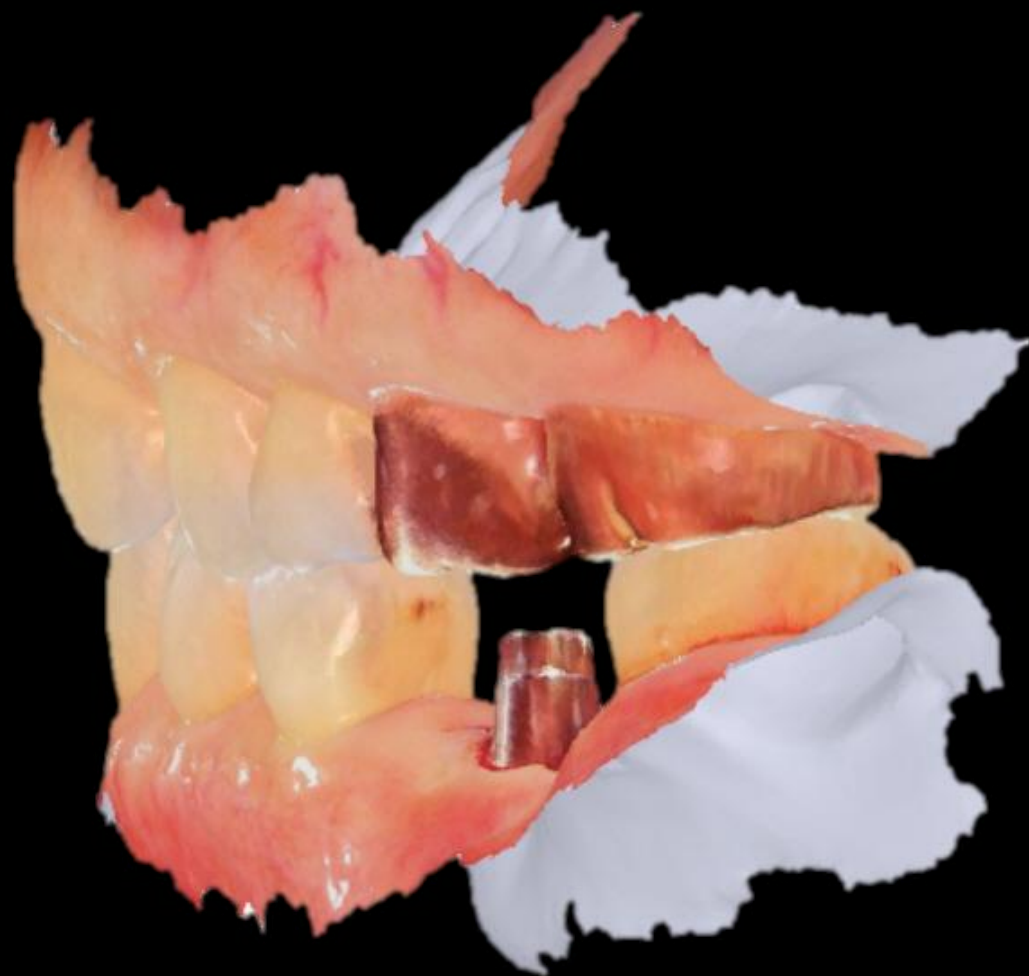


Digital abutment

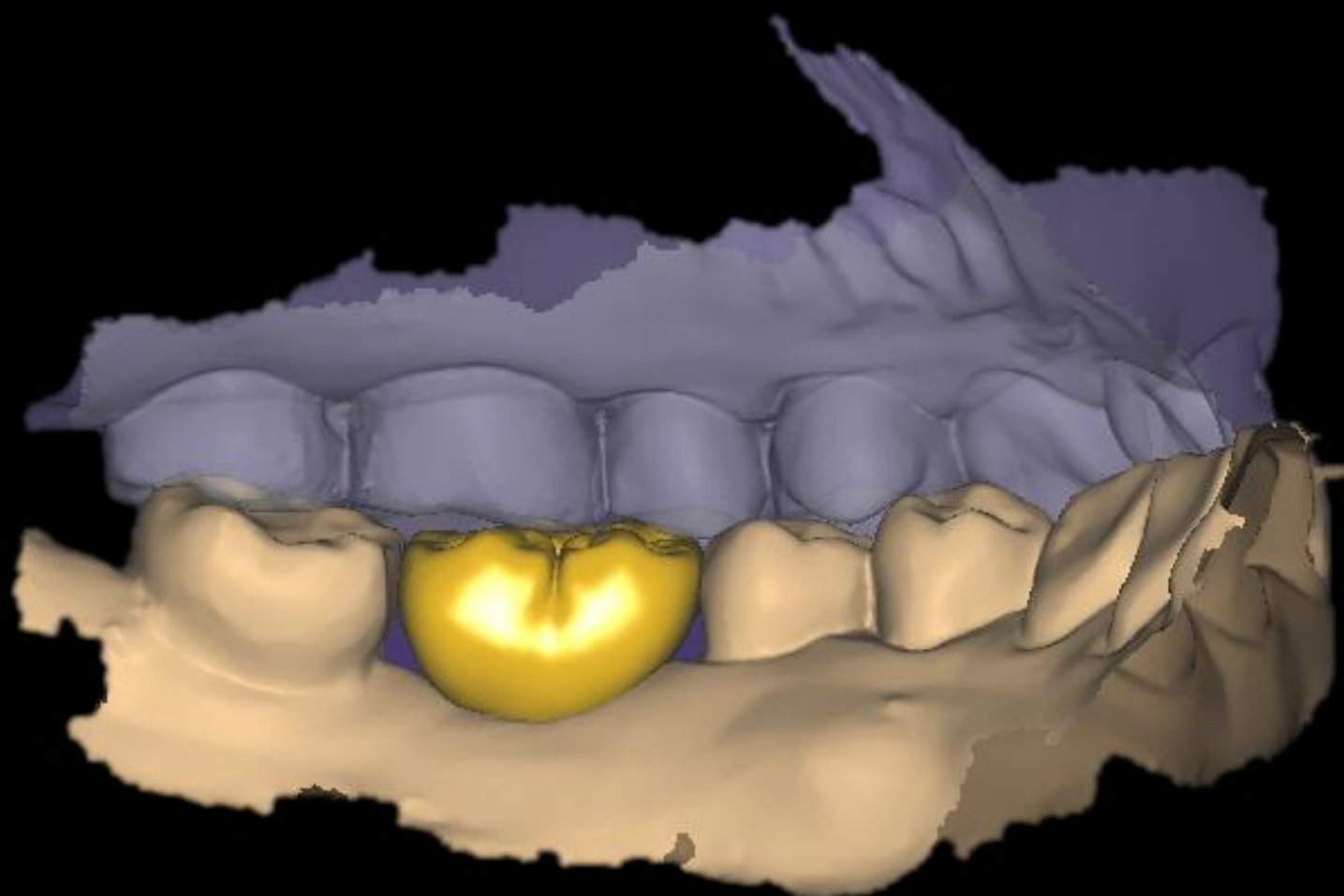
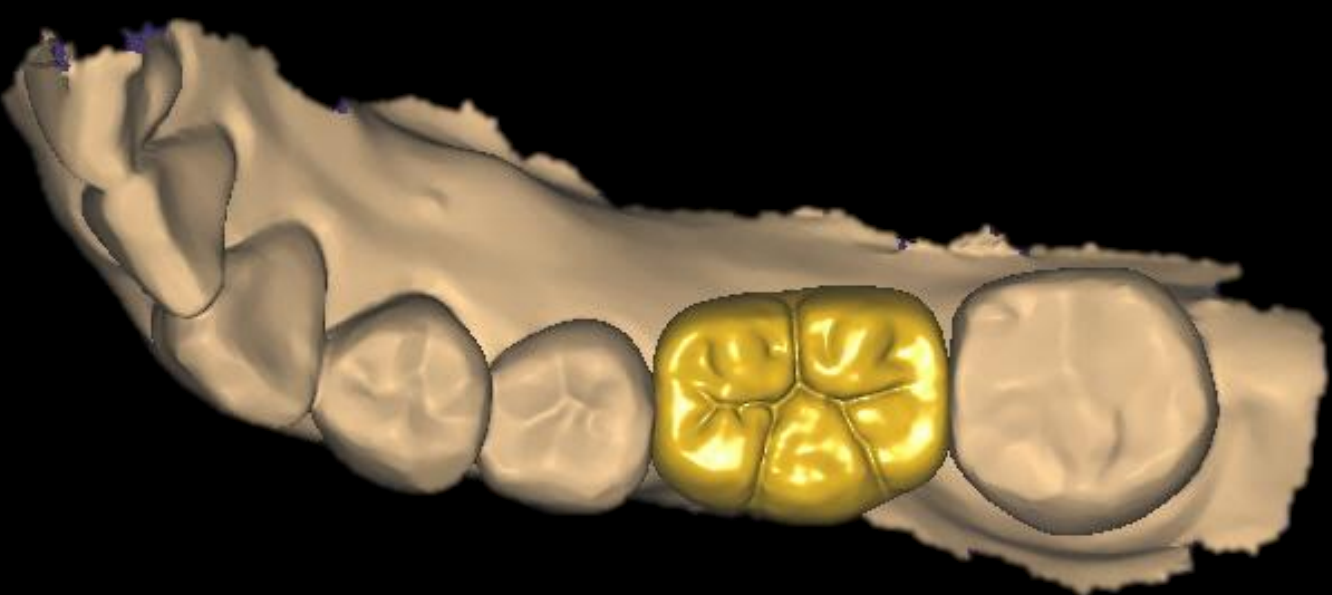
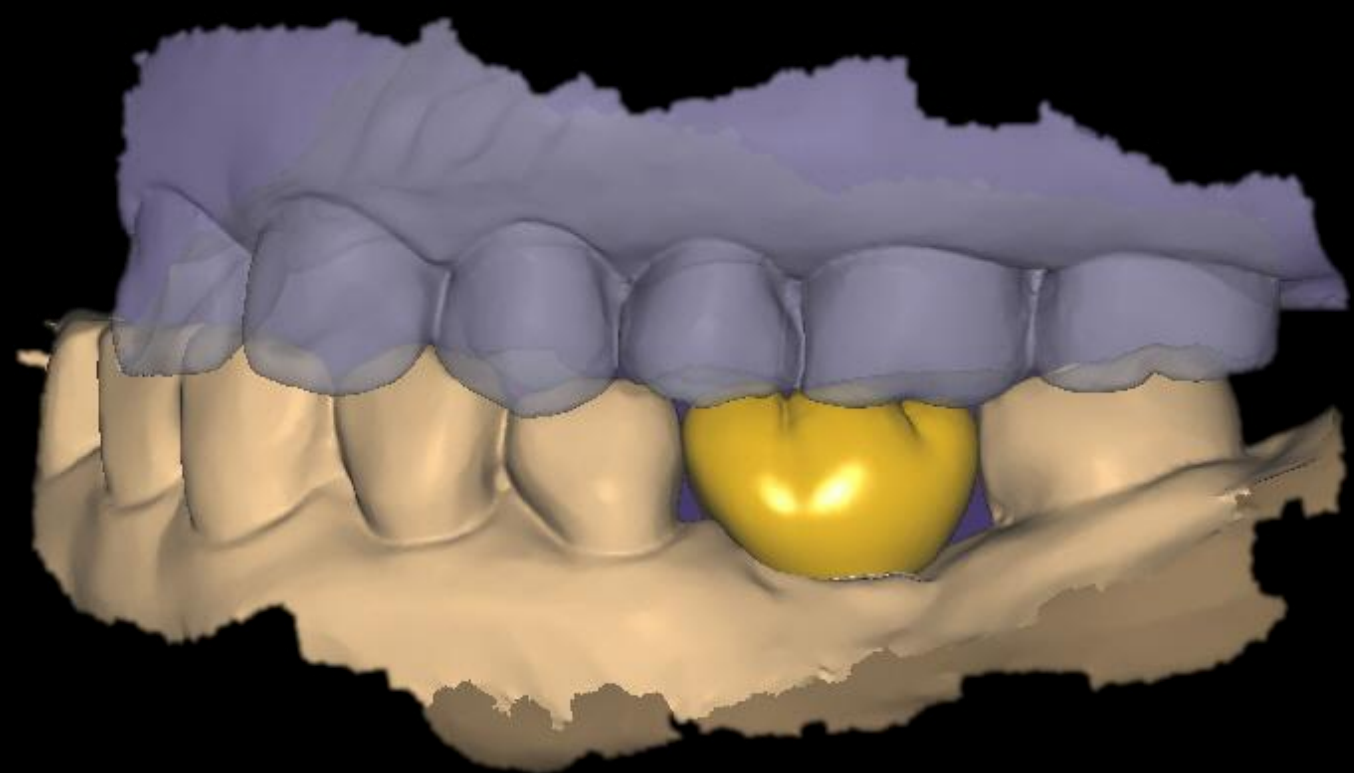
Shade taking



Intra Oral Scan



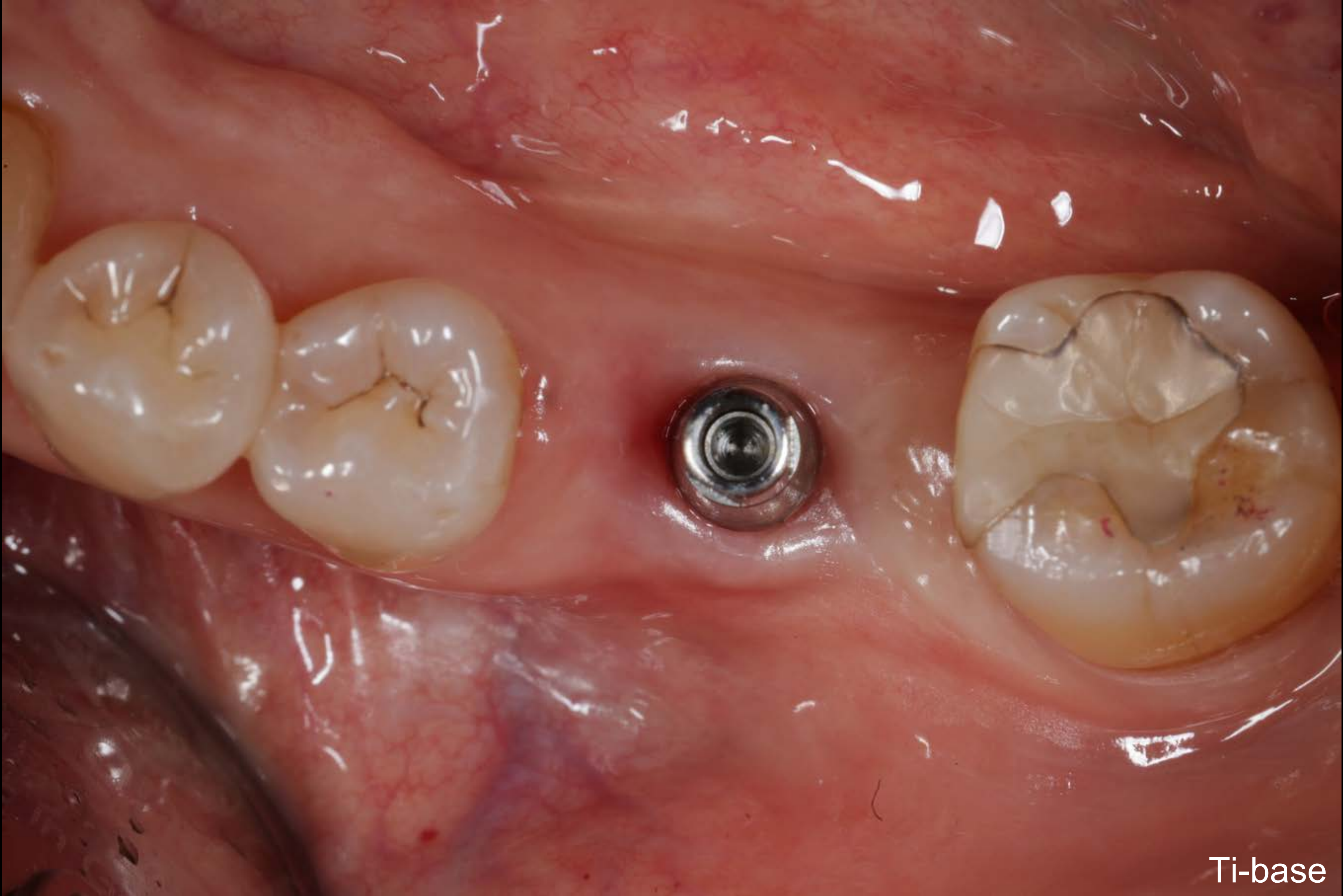
CAD (Final prosthesis)



Milling / Sintering / Glazing



Healing : 2 weeks (2025-01-22)



Ti-base

Final prosthesis (2025-01-22)



Why negative to IOS?

Trios - 3shape. Medit

Prime scanner

Shining 3D - Aoral, Elite

High cost

Inaccuracy - curved poetics, free end

Application of IOS

Natural teeth

Single or bridge in a straight line

Maximum 3 to 4 teeth

Limitation of IOS

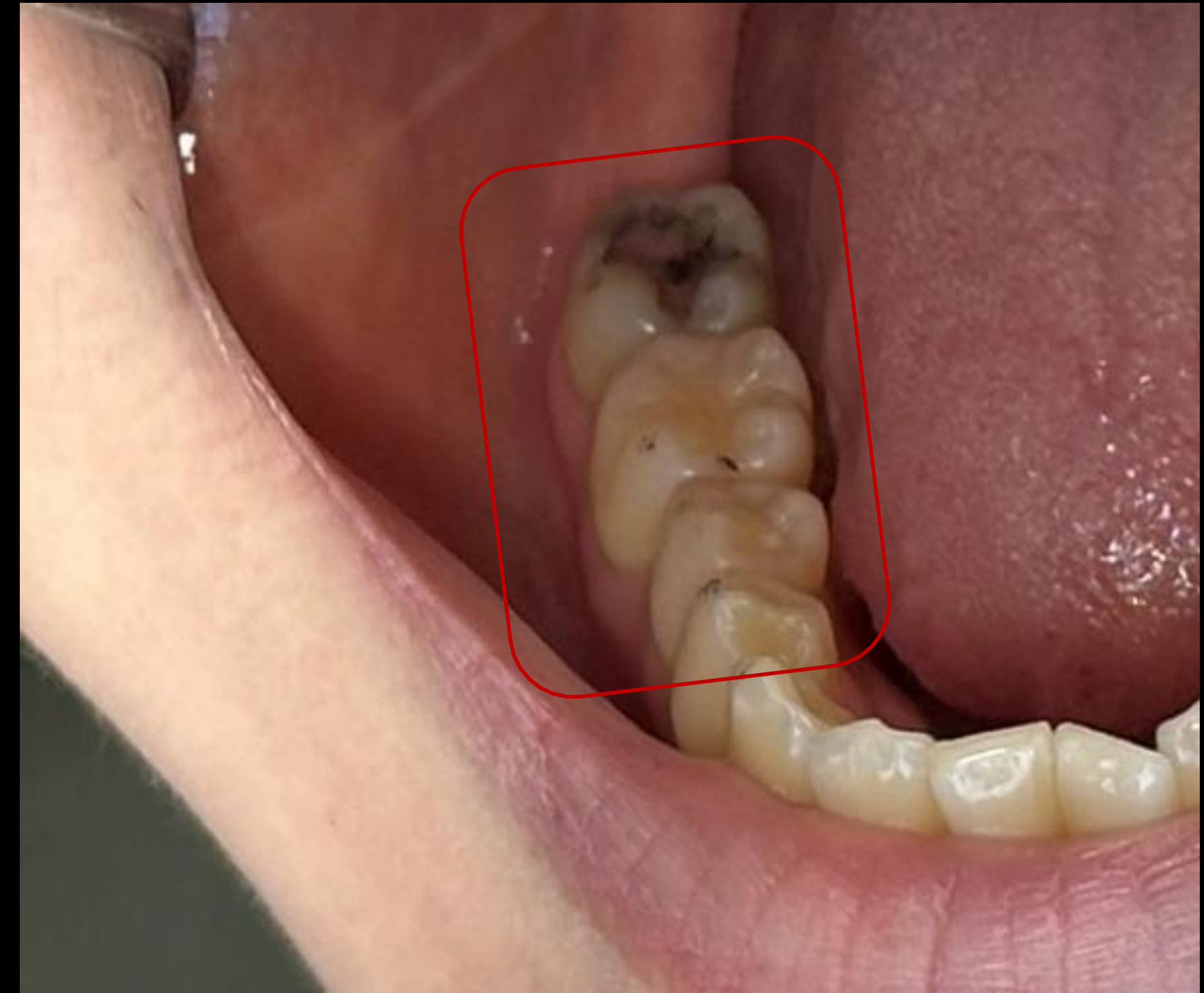
Some errors in free end case

Curved arch with poetics

Dentium Dental Clinic **IOS** Process

IOS workflow (w. Shining 3D Aoralscan)

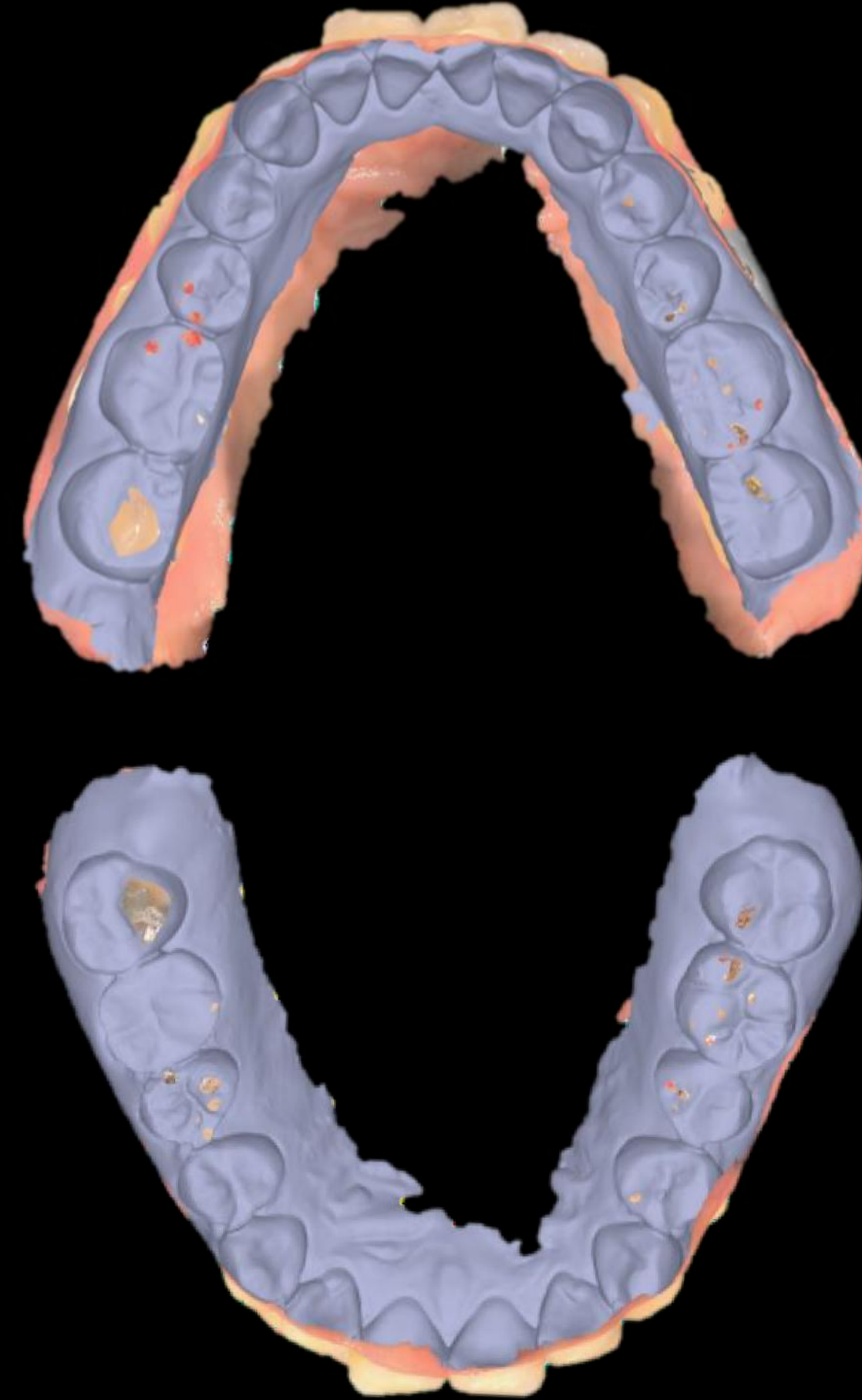
1. **Bite Marking** Using Occlusal Paper



Dentium Dental Clinic **IOS** Process

IOS workflow (w. Shining 3D Aoralscan)

1. Bite Marking Using Occlusal Paper
2. Upper SCAN
3. Lower SCAN
4. Bite SCAN



Shining 3D Elite - photogrammetry

Shining 3D Aoral

Prime scanner from Sirona

Trioss from 3shape

Media

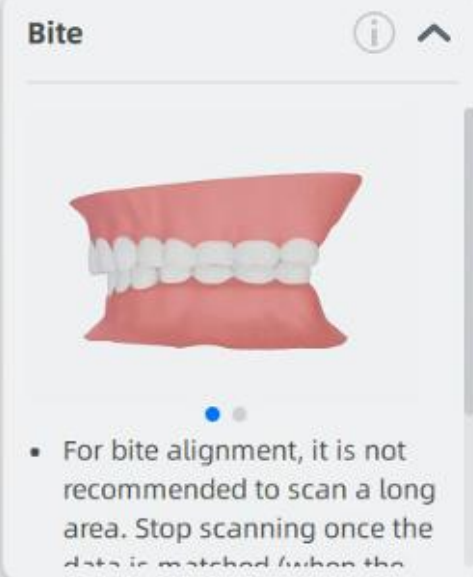
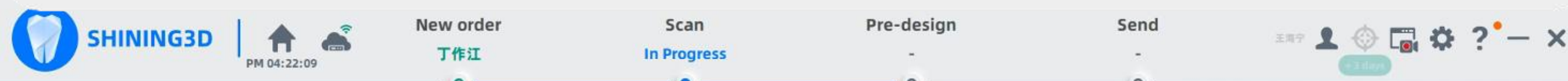
Photogrammetry

Coded Scan body

Multi-unit abutment

Implant

HACS-A, B, C, and D



Upper Jaw

Lower Jaw



BTS & BOS & IOS Data Compare

In a straight area - no difference in precision
But in occlusion, partial scan is better than full arch scan



BTS



BOS



**IOS
(Partial)**

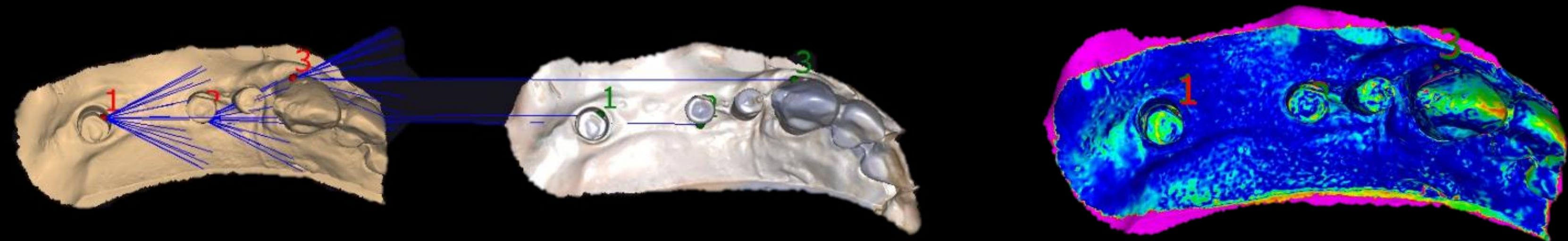


**IOS
(Full Arch)**

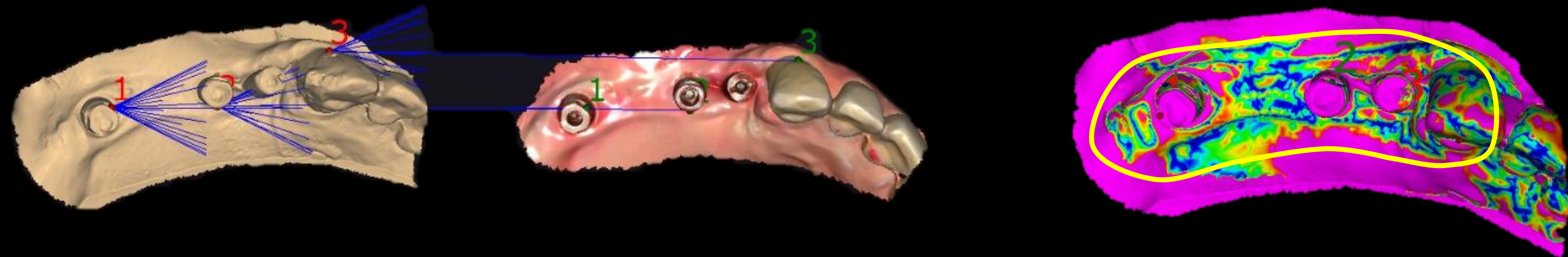
BTS & BOS & IOS Data stitching

* Stitching Performed Based on BTS

BTS x BOS



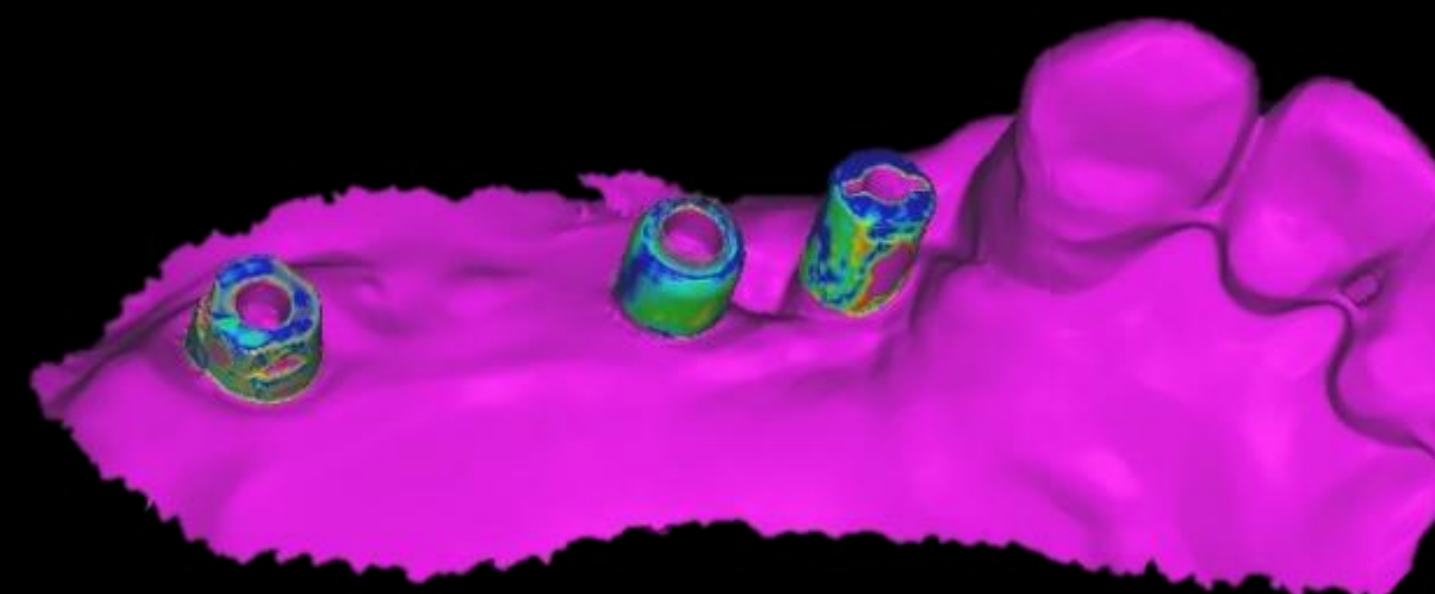
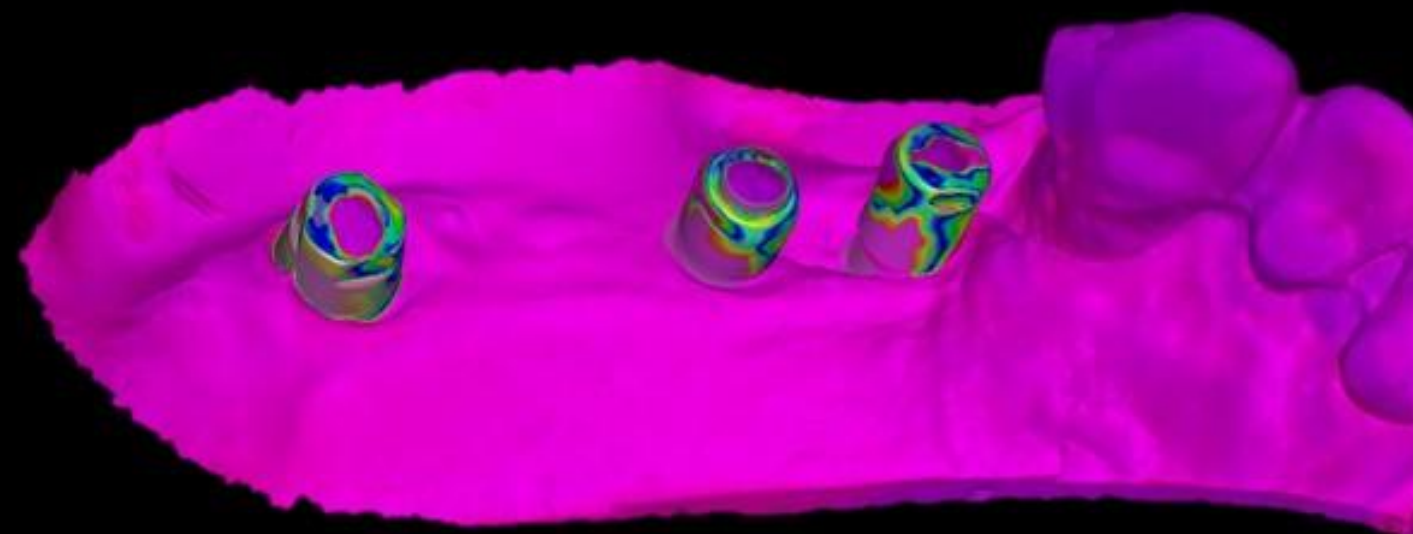
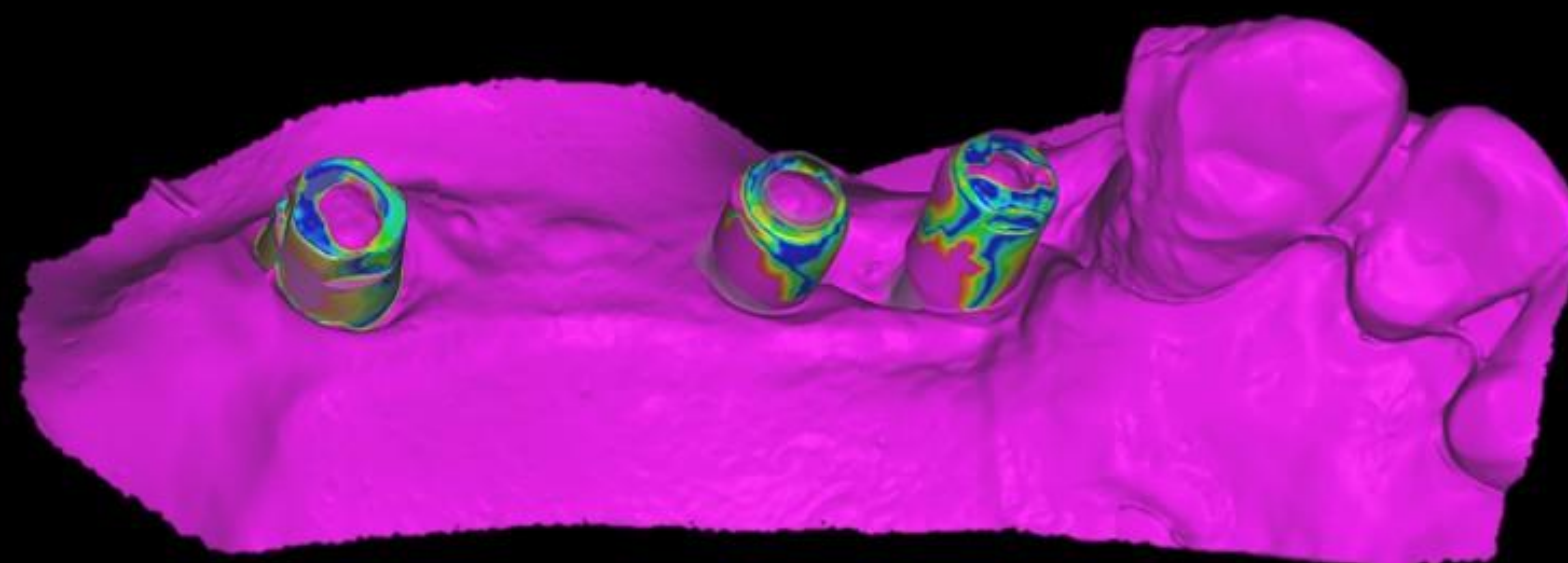
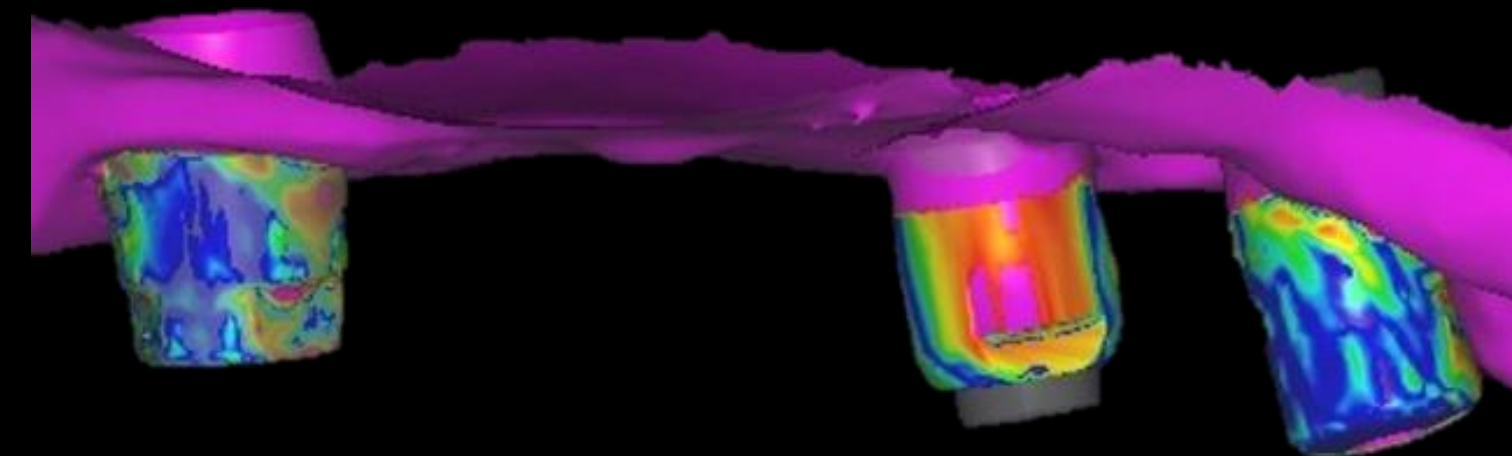
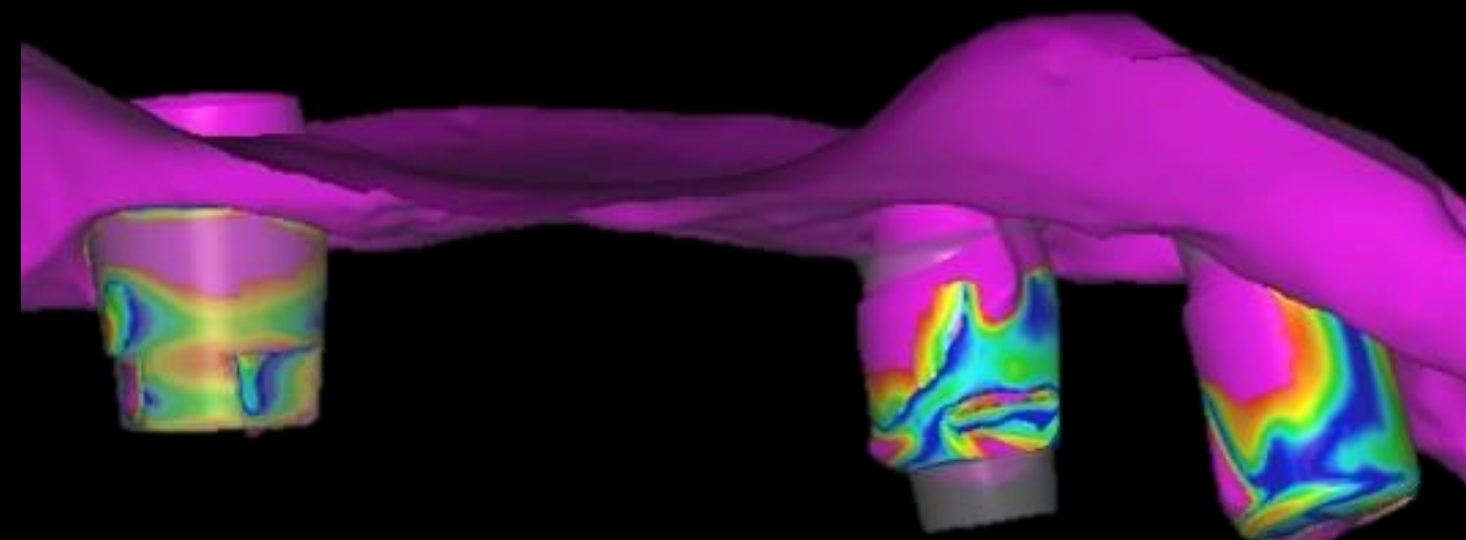
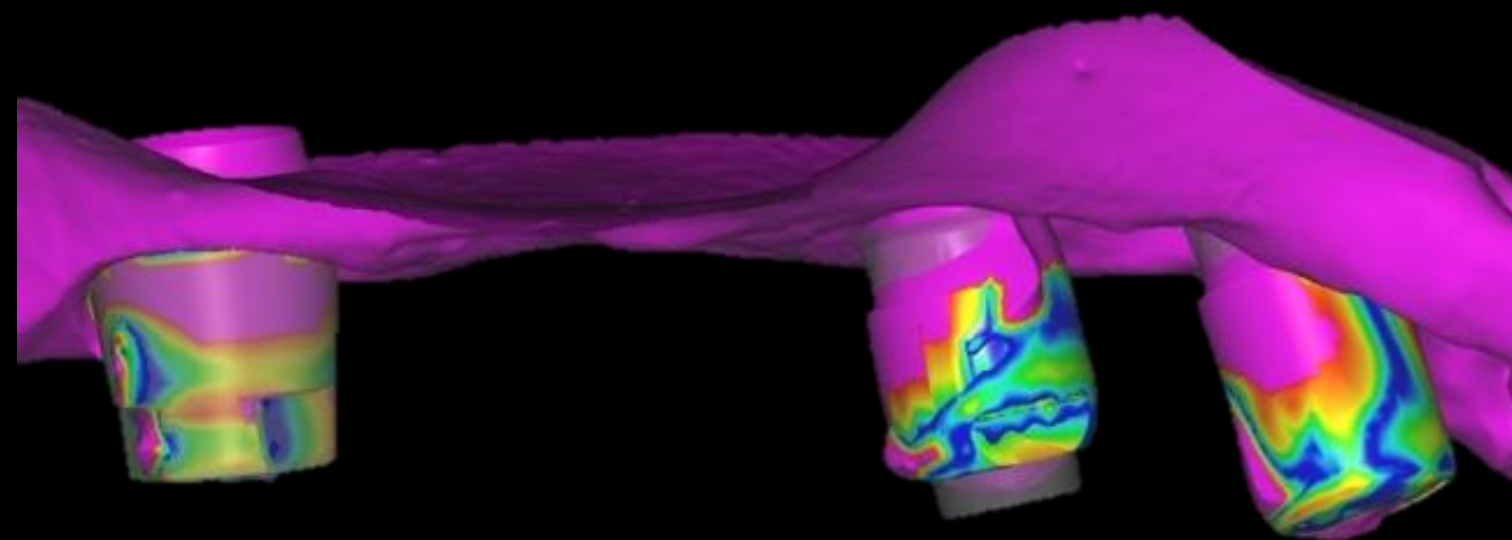
BTS x IOS
(Partial)



BTS x IOS
(Full Arch)



BTS & BOS & IOS Library stitching

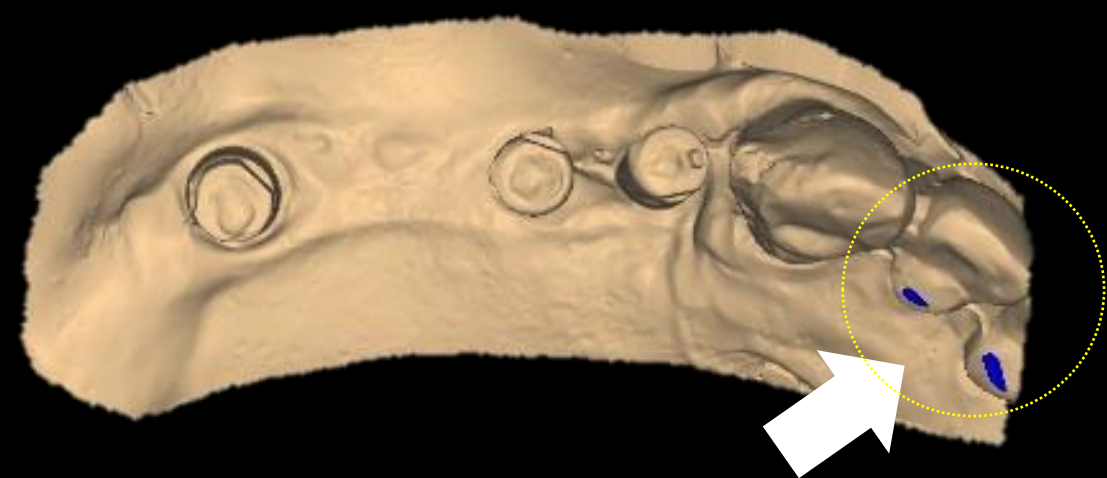


BTS

BOS

**IOS
(Partial)**

BTS & BOS & IOS Bite Compare



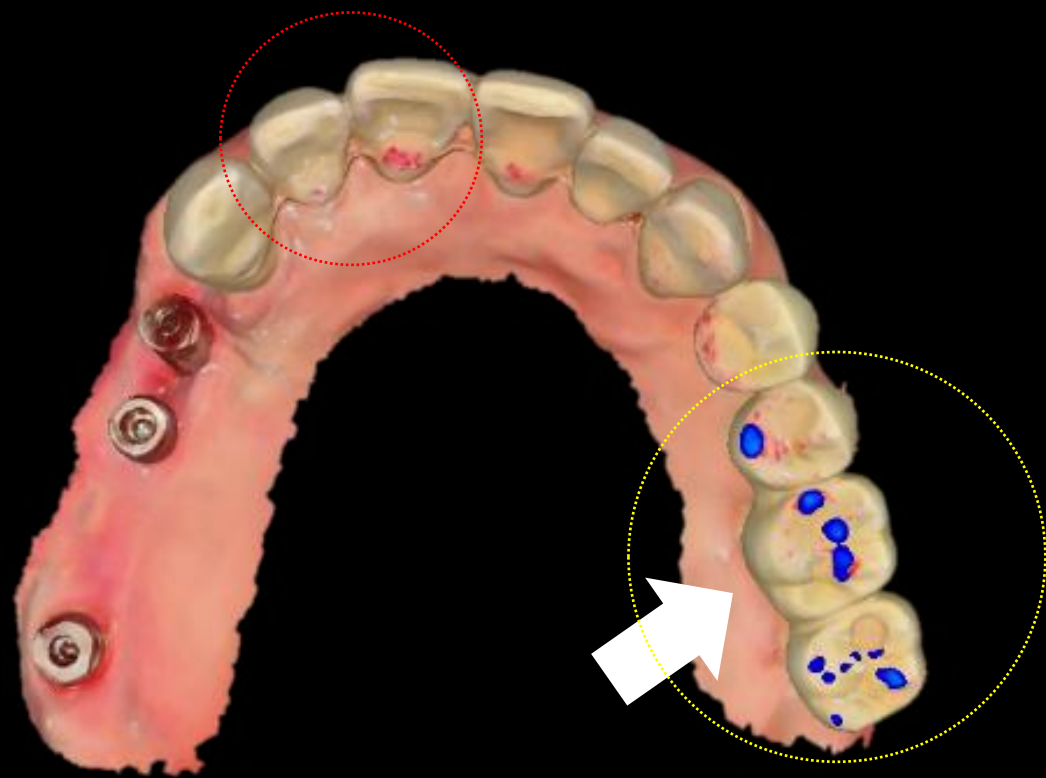
BTS



BOS

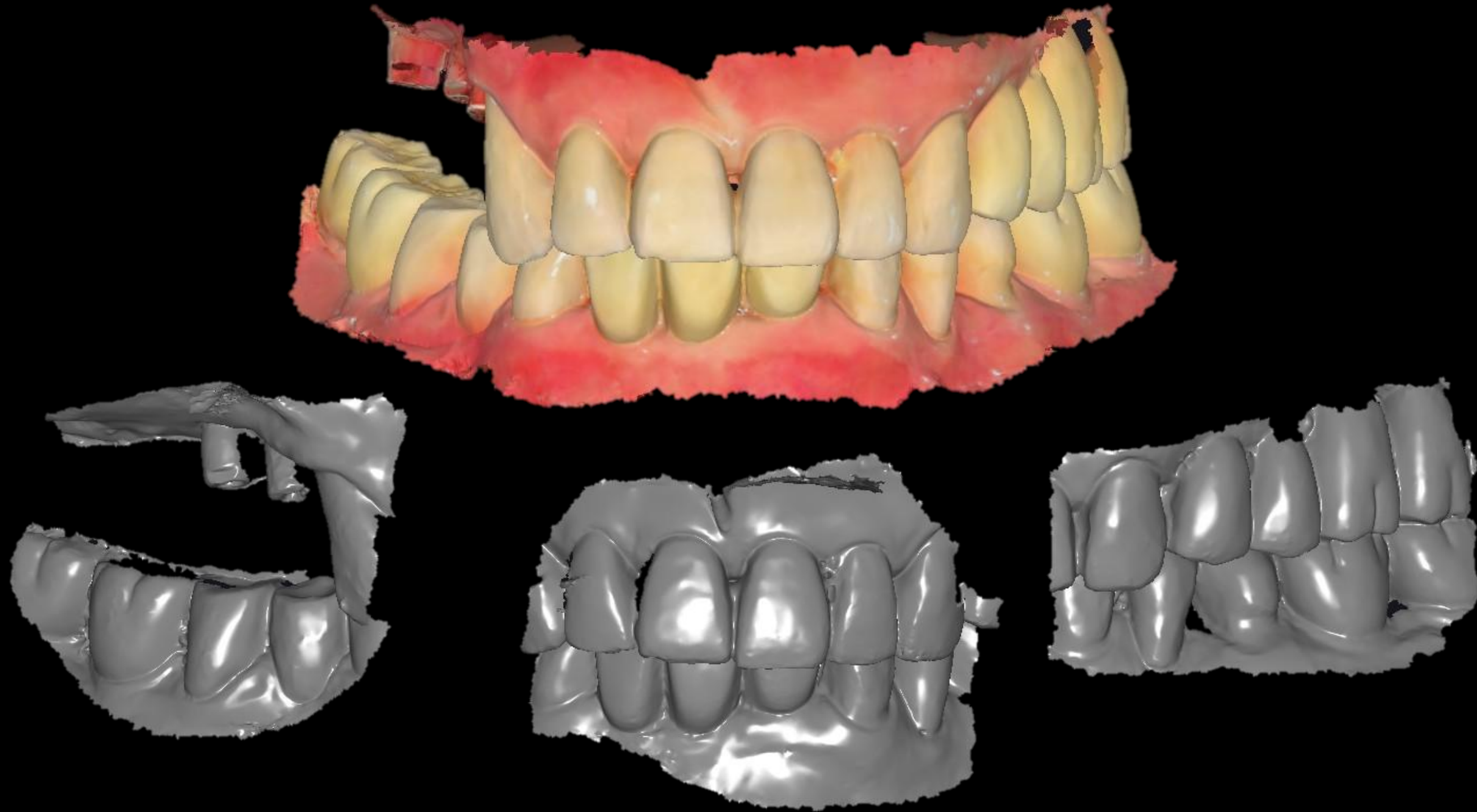


IOS
(Partial)



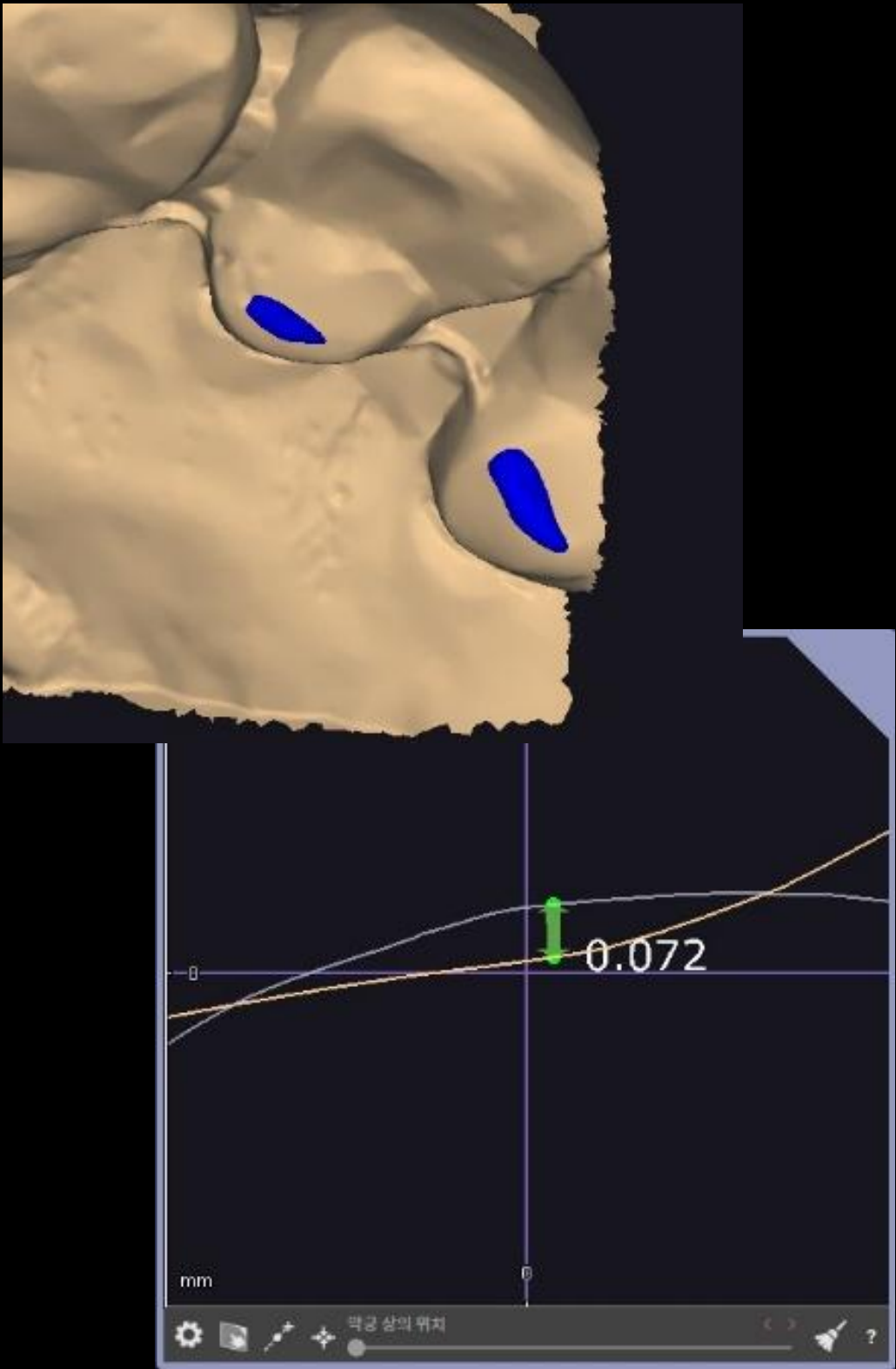
IOS
(Full Arch)

BTS & BOS & IOS Bite Compare

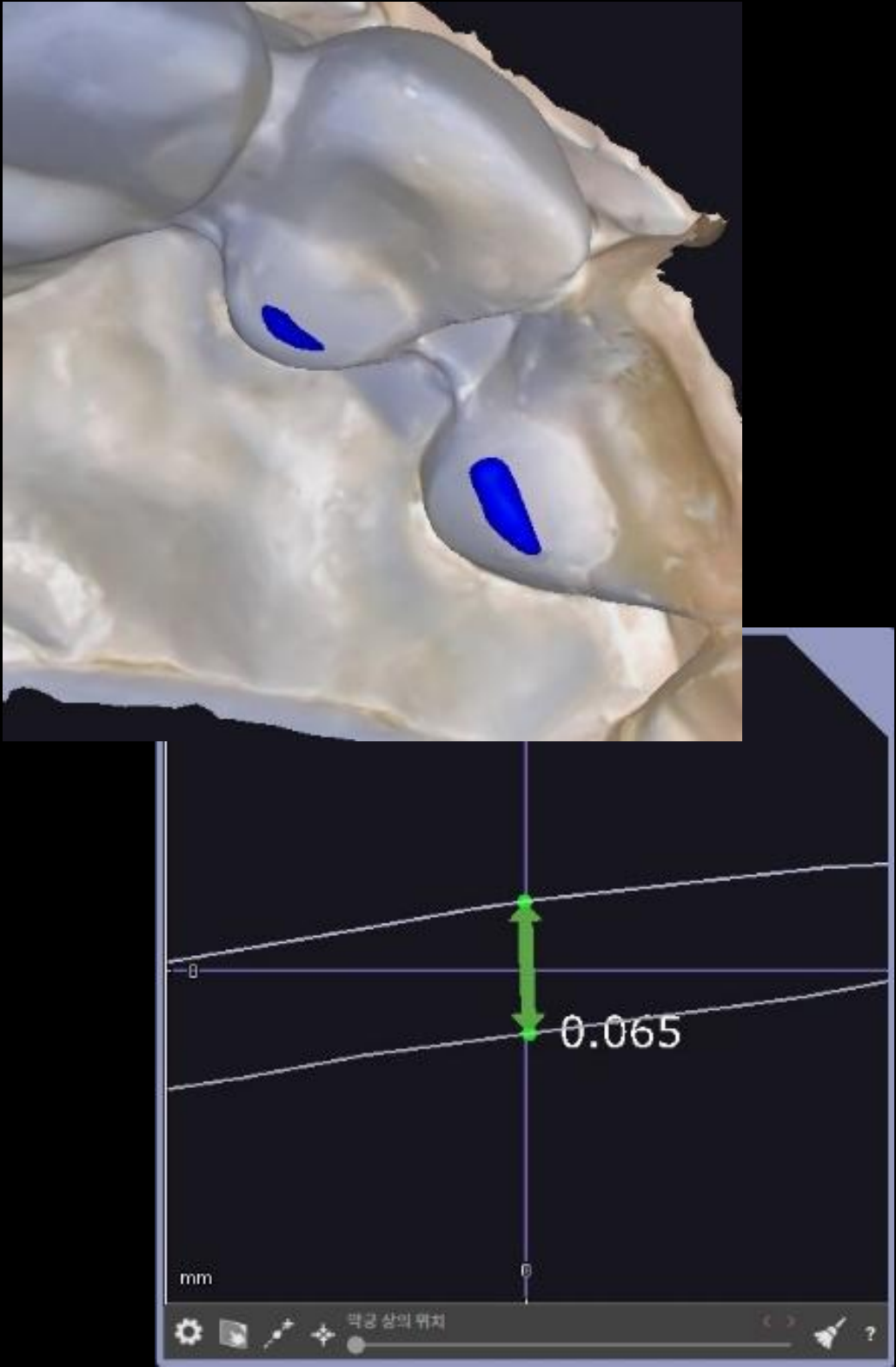


In a full arch scan, during stitching of each occlusion part, very little deviation

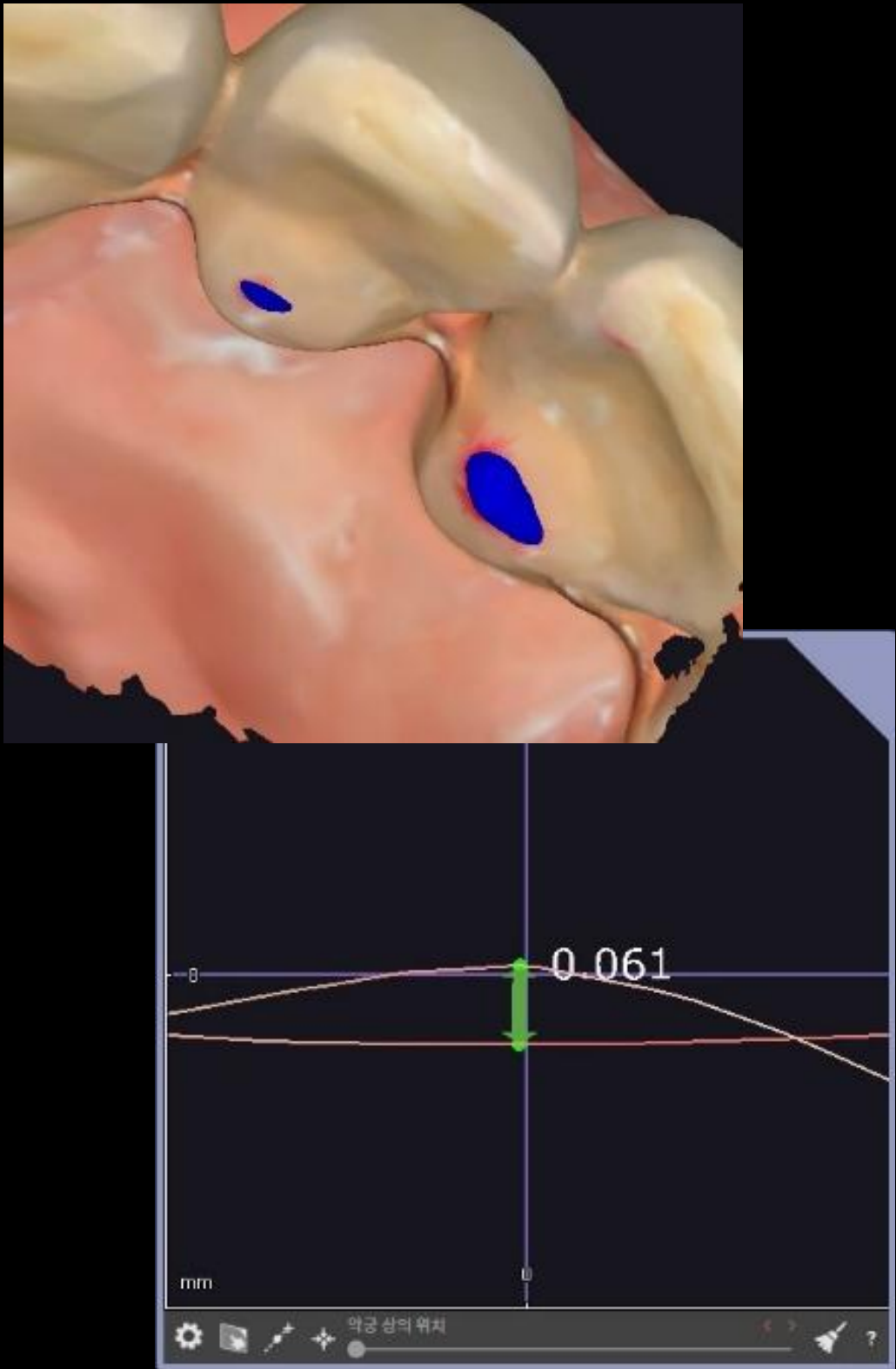
BTS & BOS & IOS Bite Compare



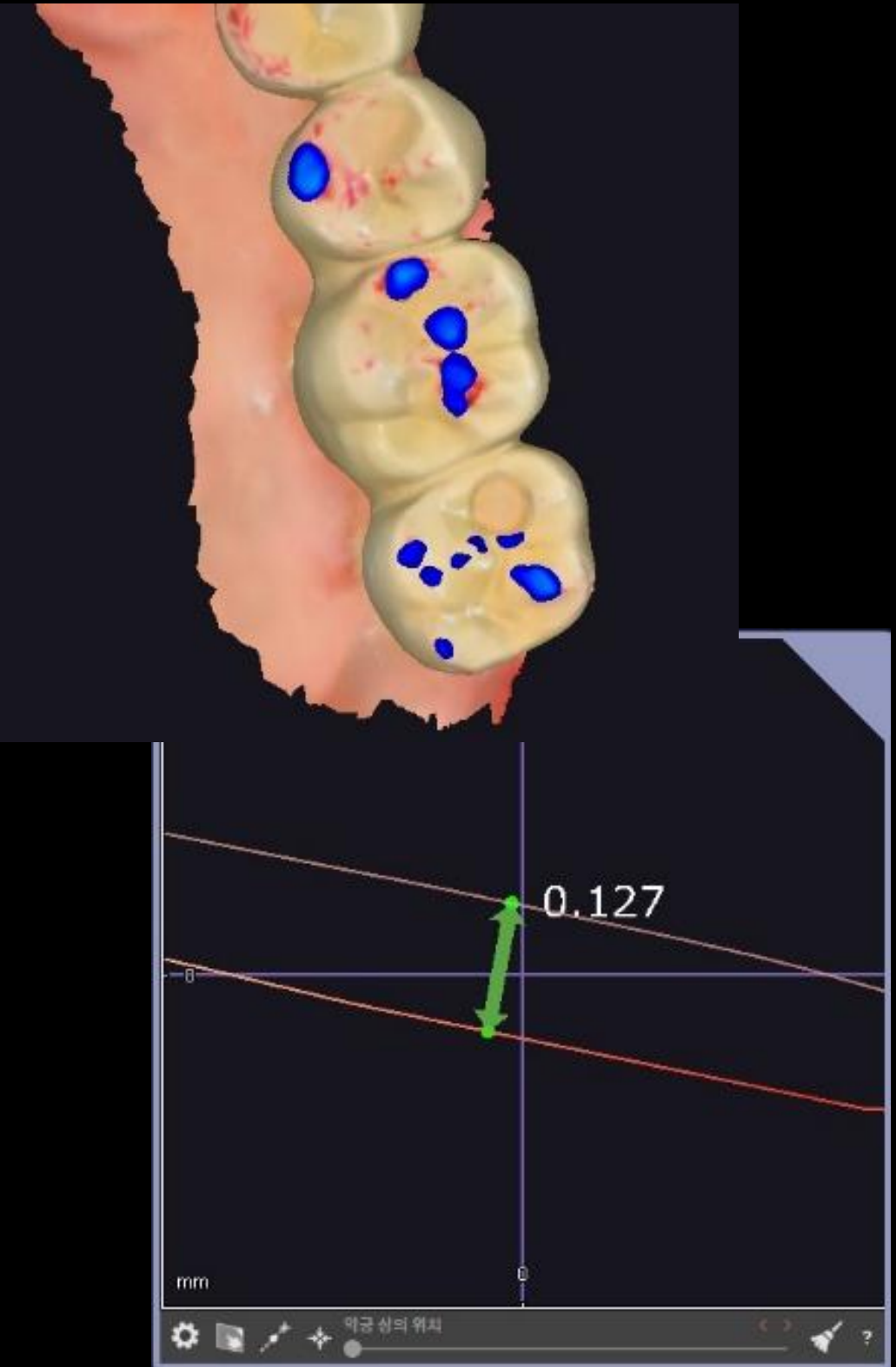
BTS



BOS



**IOS
(Partial)**



**IOS
(Full Arch)**

Bite value approximately 0.12 mm

Differences in Position and Values
Compared to Partial Impression

Bite value approximately 0.06–0.07 mm

Positions and values are similar

BTS & BOS & IOS Bite Compare



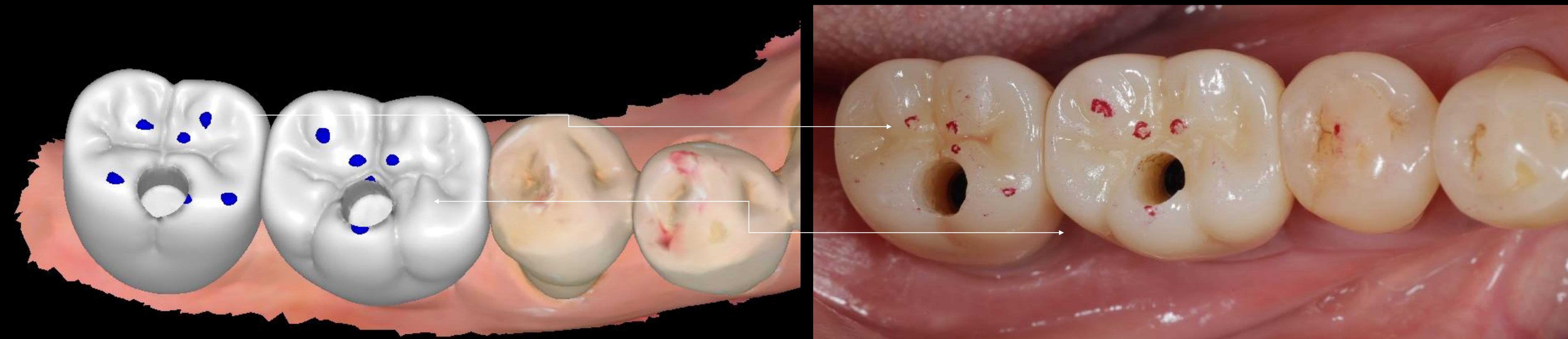
* Production Plan: Fabrication to Proceed Using the **IOS** (Partial) Showing the Most Stable **Bite** and **Library** Alignment *

Final Prosthesis



Shining 3d Aoral Elite scan data use to model-less

Final Prosthesis



Shining 3d Aoral Elite scan data use to model-less

Oral exam (2024-07-31)



Post-op (2024-10-08)



Pre-op CT (2024-07-17)

#26

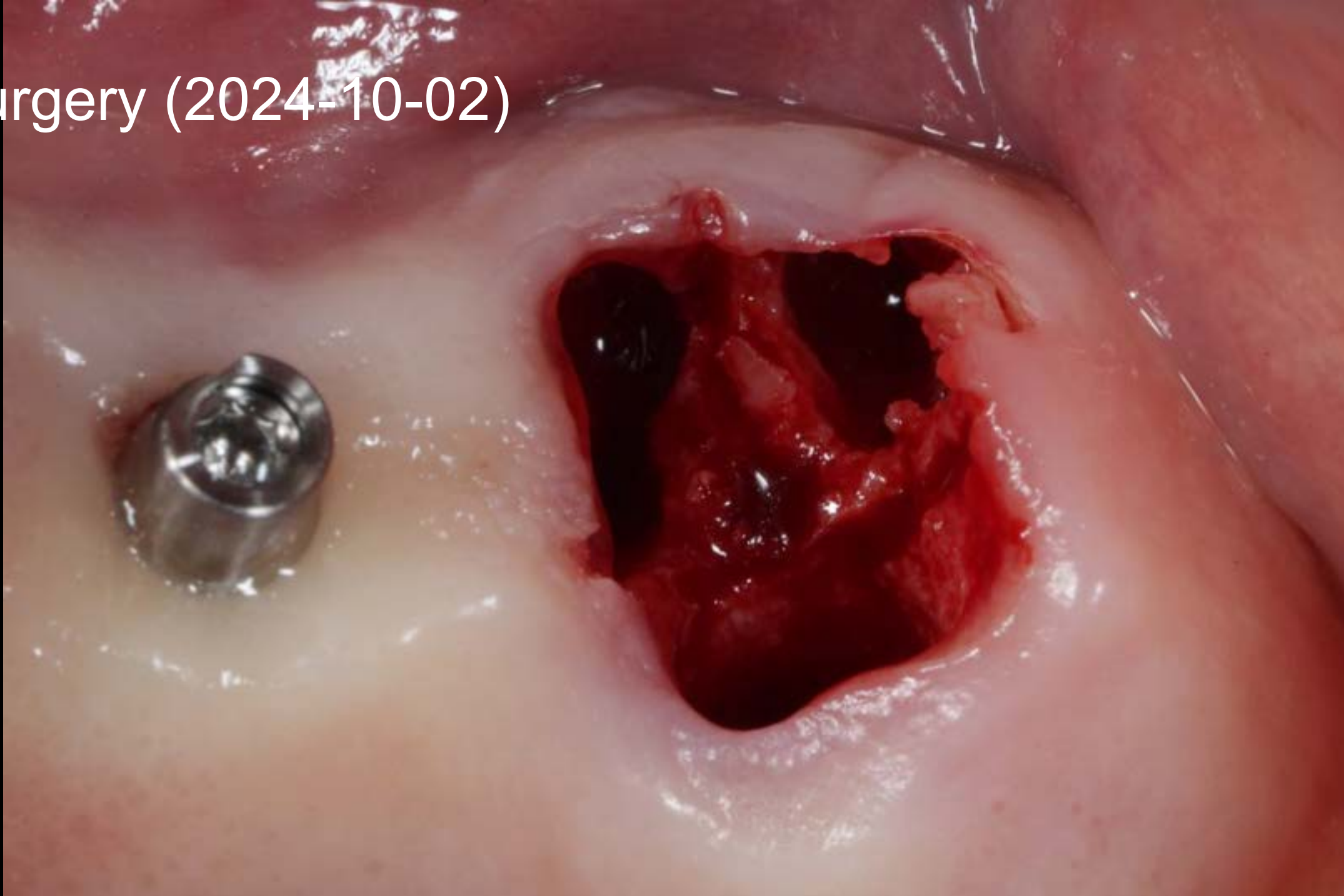
#27

#26

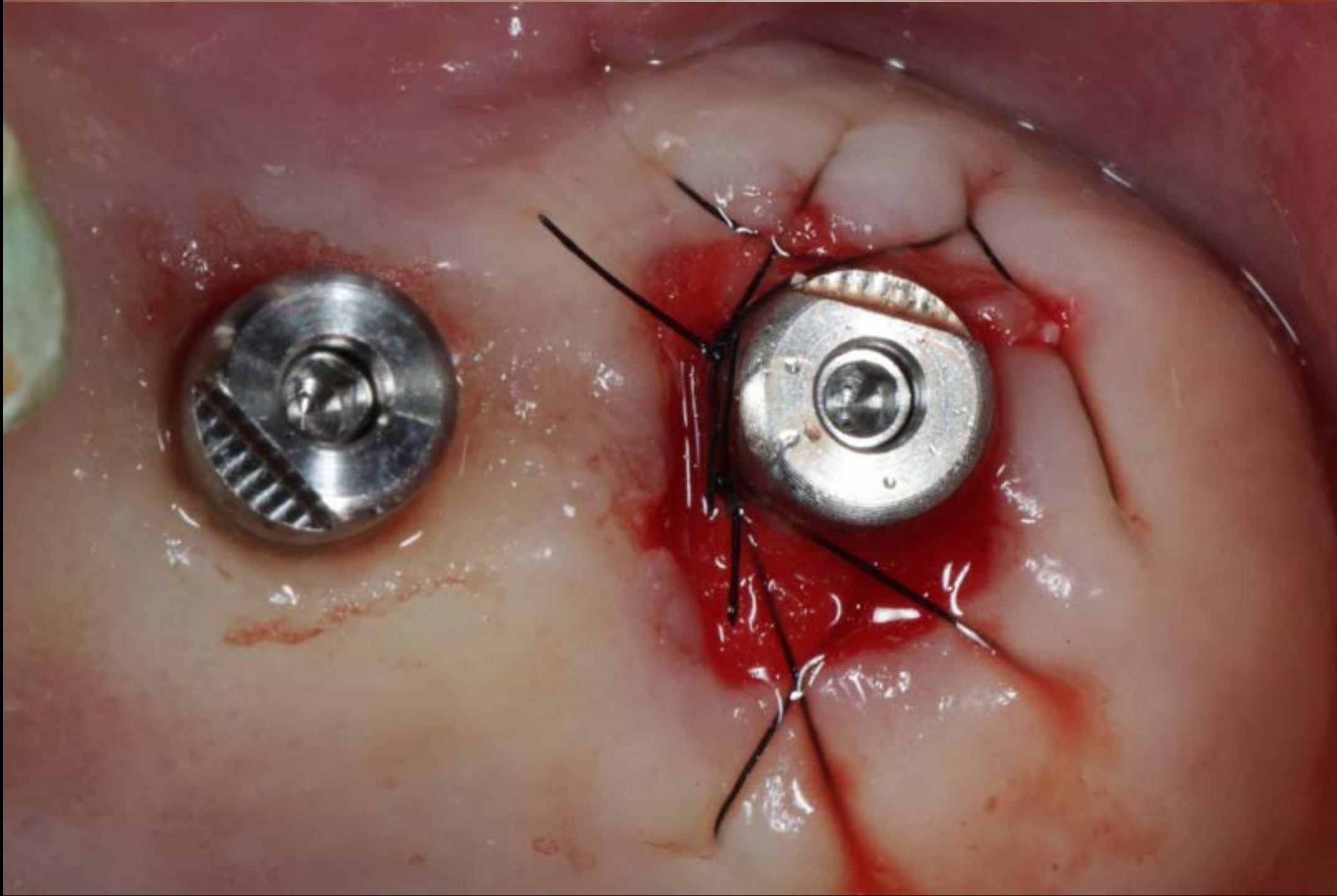
#27



Surgery (2024-10-02)

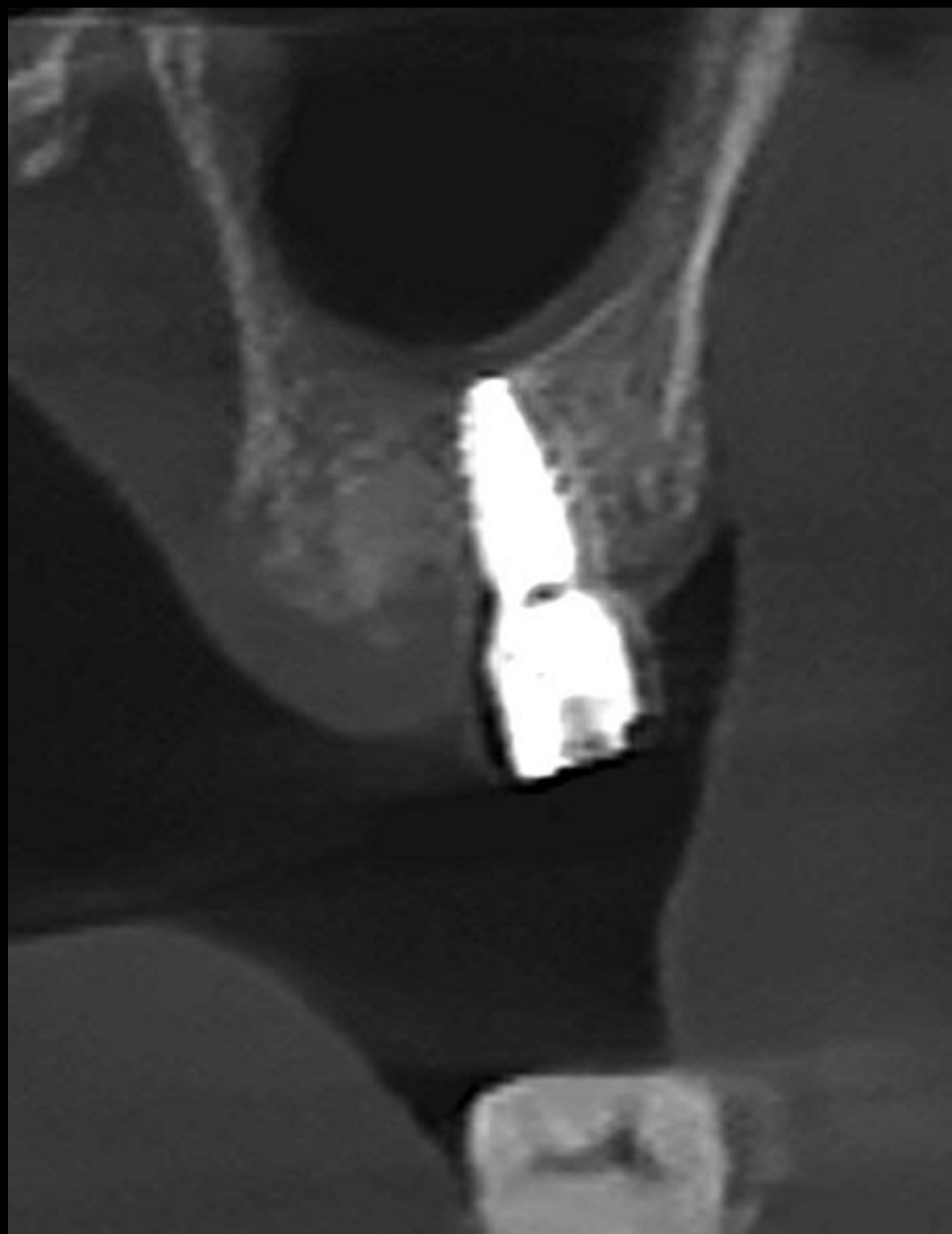


OSTEON™ 3 Collagen
bright premier TL (Ø4.5X7.0, Ø3.5 X 7.0)
Collagen Graft x1D

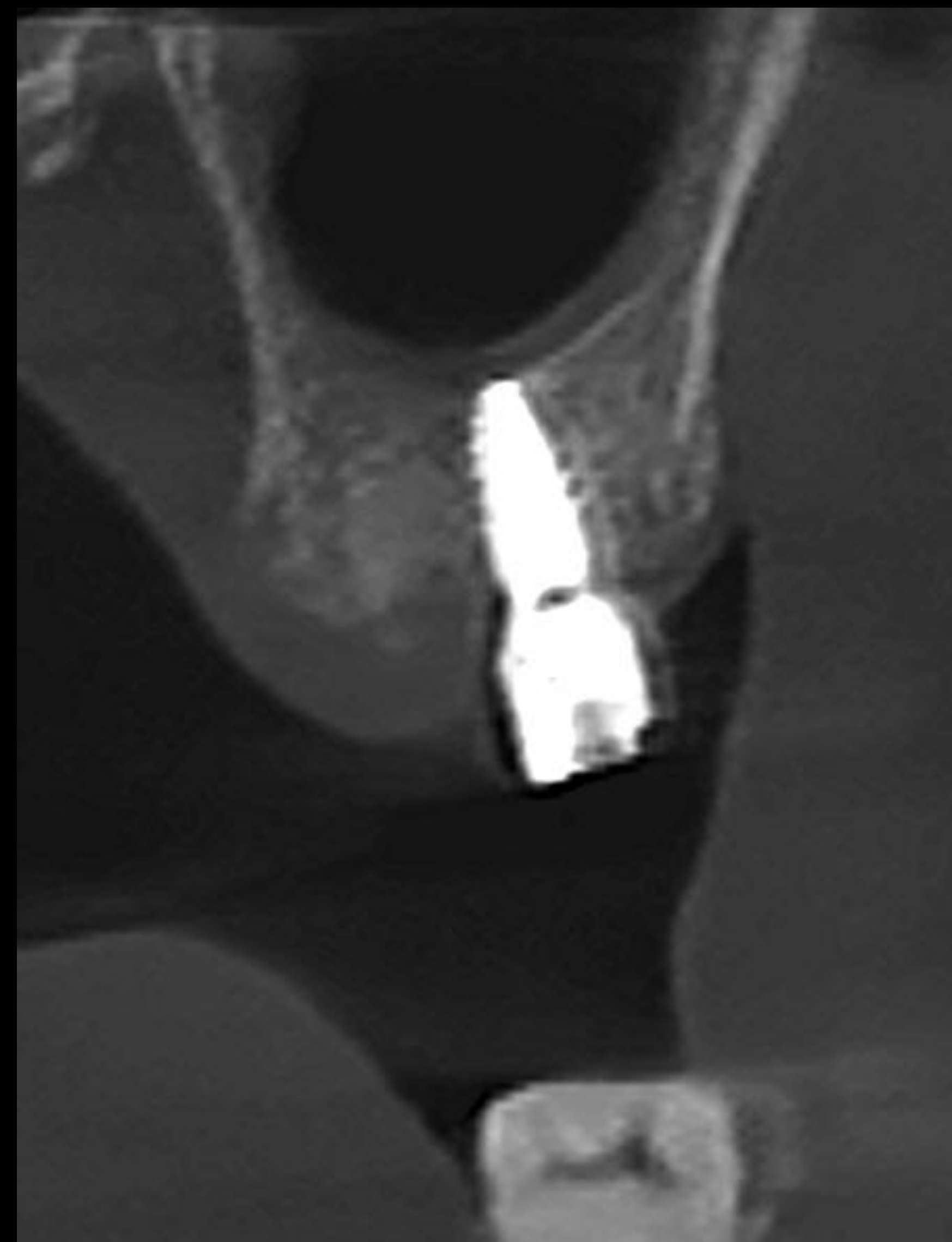


Healing : 1 month (2024-10-30)

Follow up CT : 4 weeks (2024-10-30)



#26



#27

Oral exam (2024-07-31)



Post-op (2024-10-08)



Pre-op CT (2024-07-17)

#26

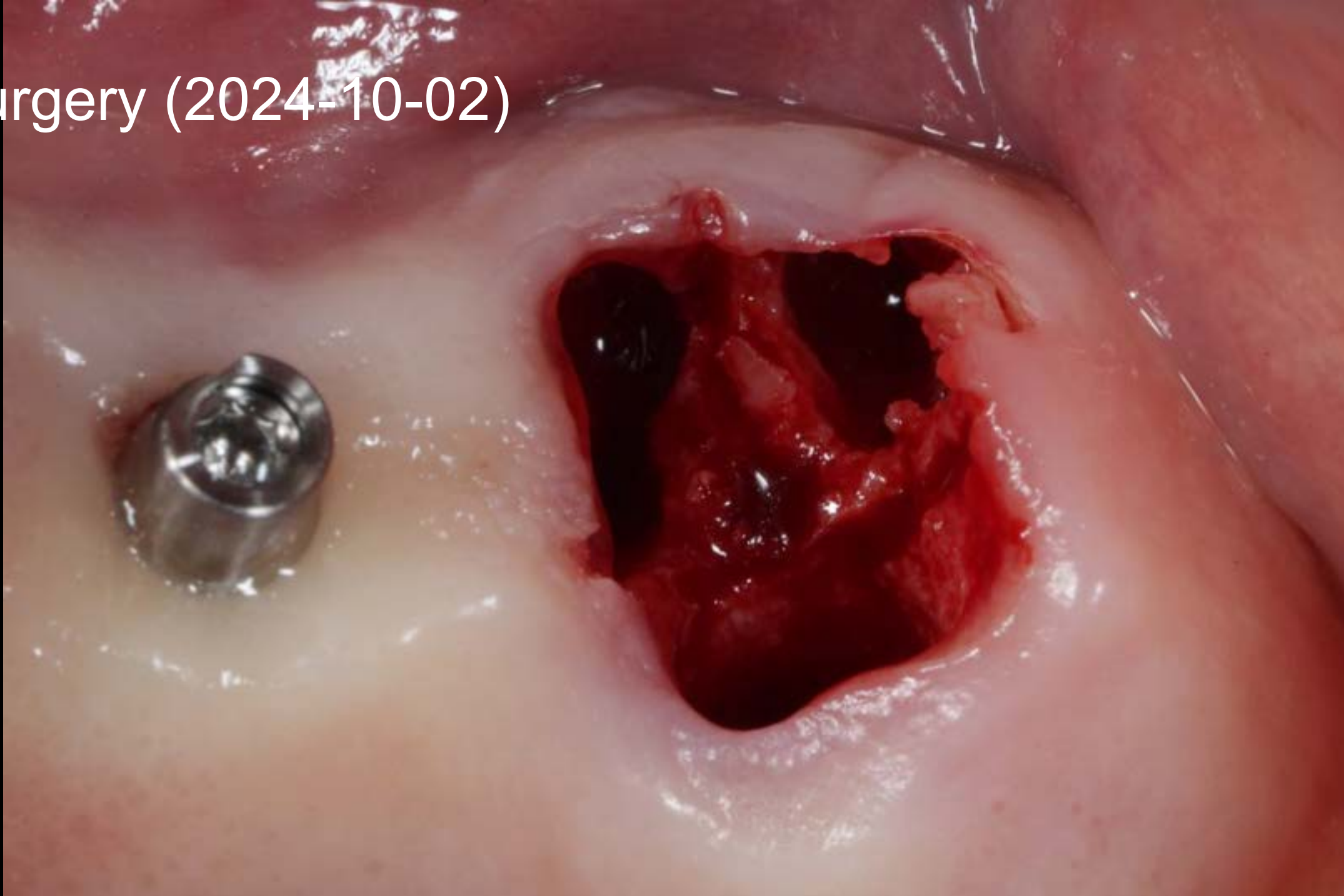
#27

#26

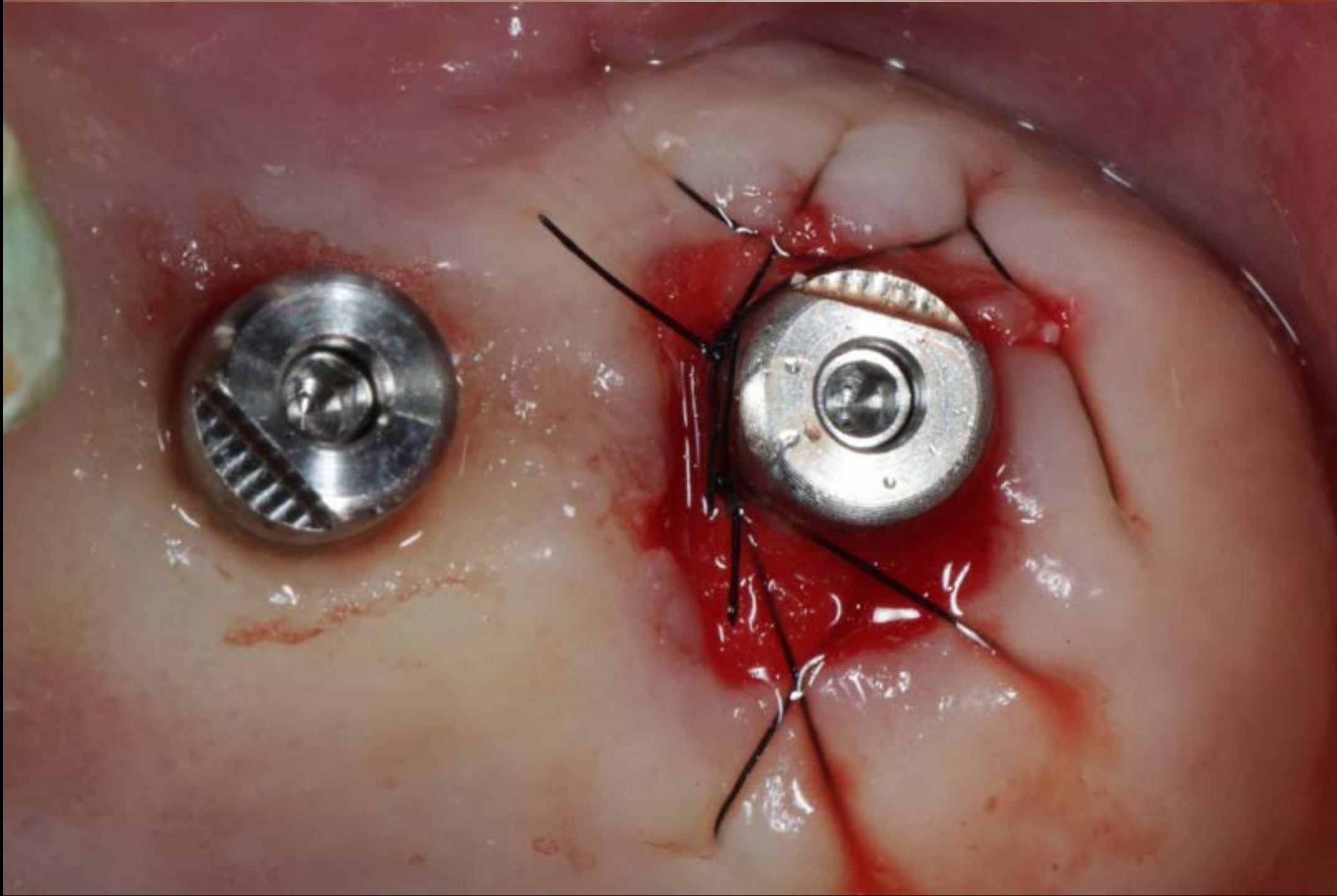
#27



Surgery (2024-10-02)

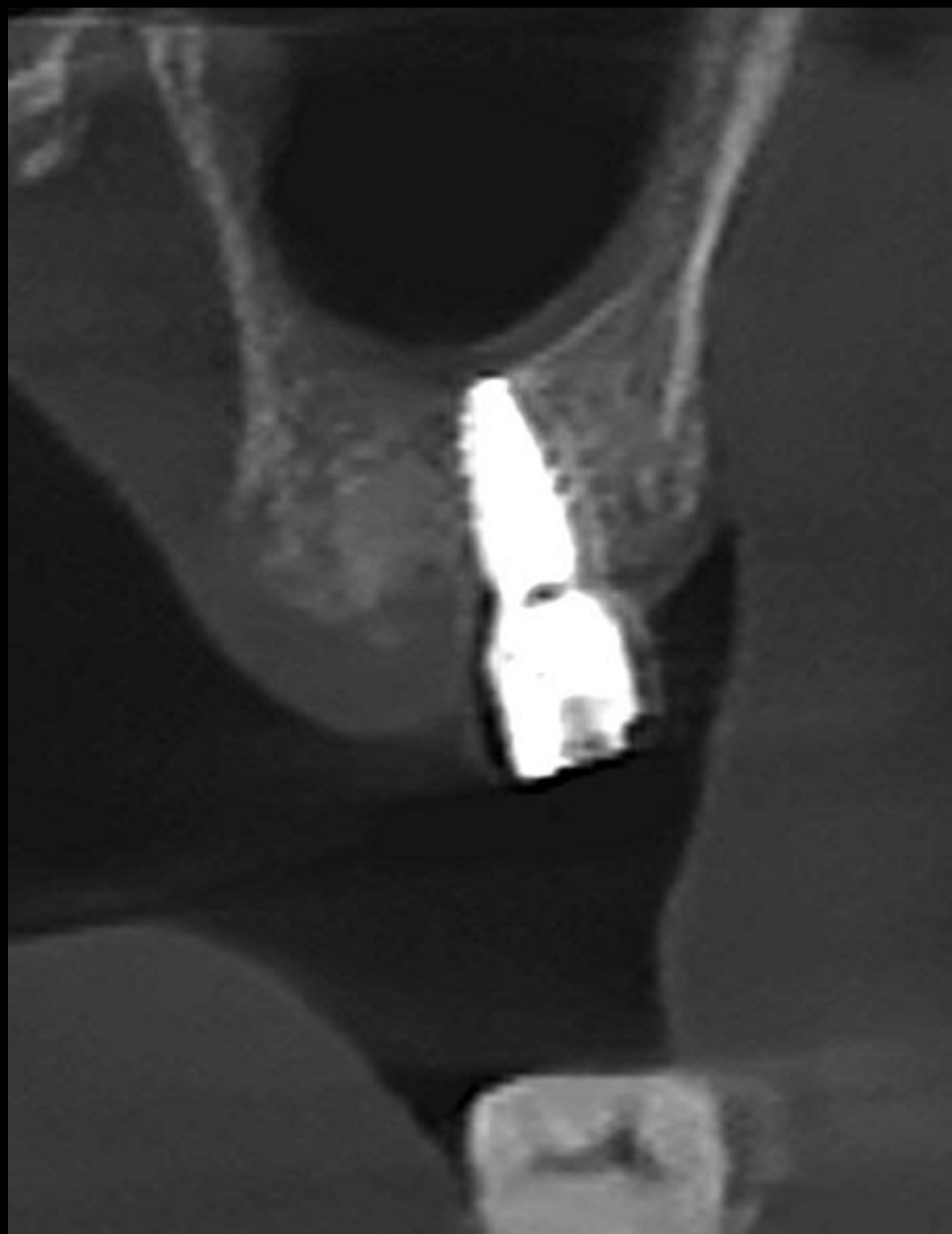


OSTEON™ 3 Collagen
bright premier TL (Ø4.5X7.0, Ø3.5 X 7.0)
Collagen Graft x1D

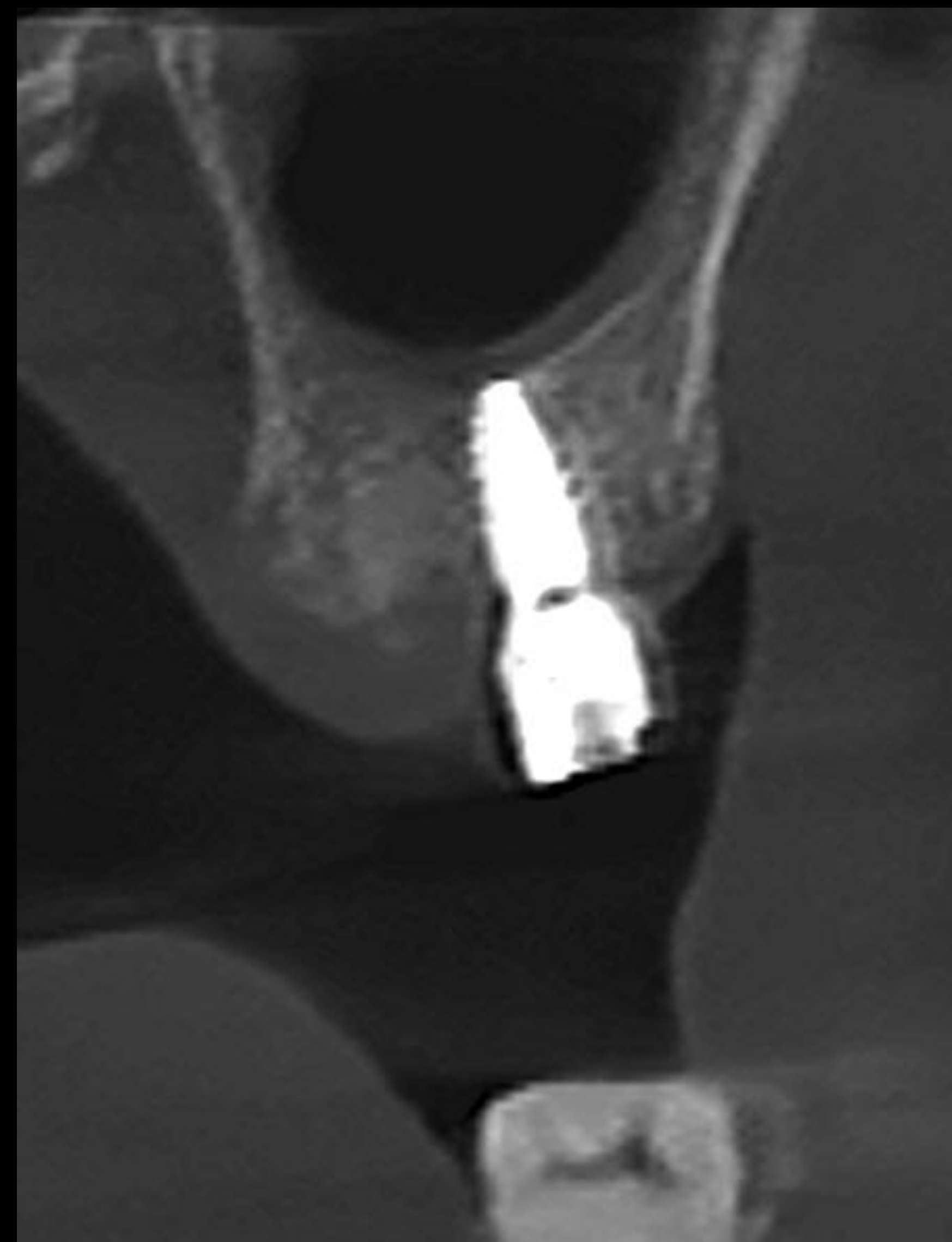


Healing : 1 month (2024-10-30)

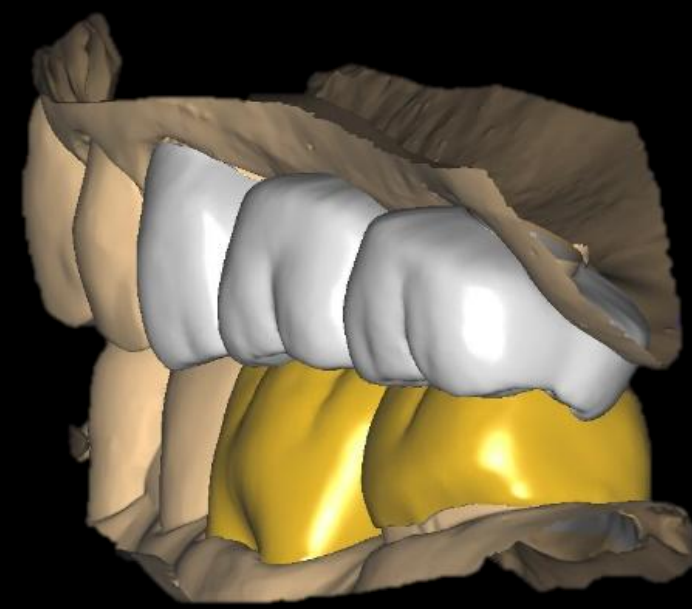
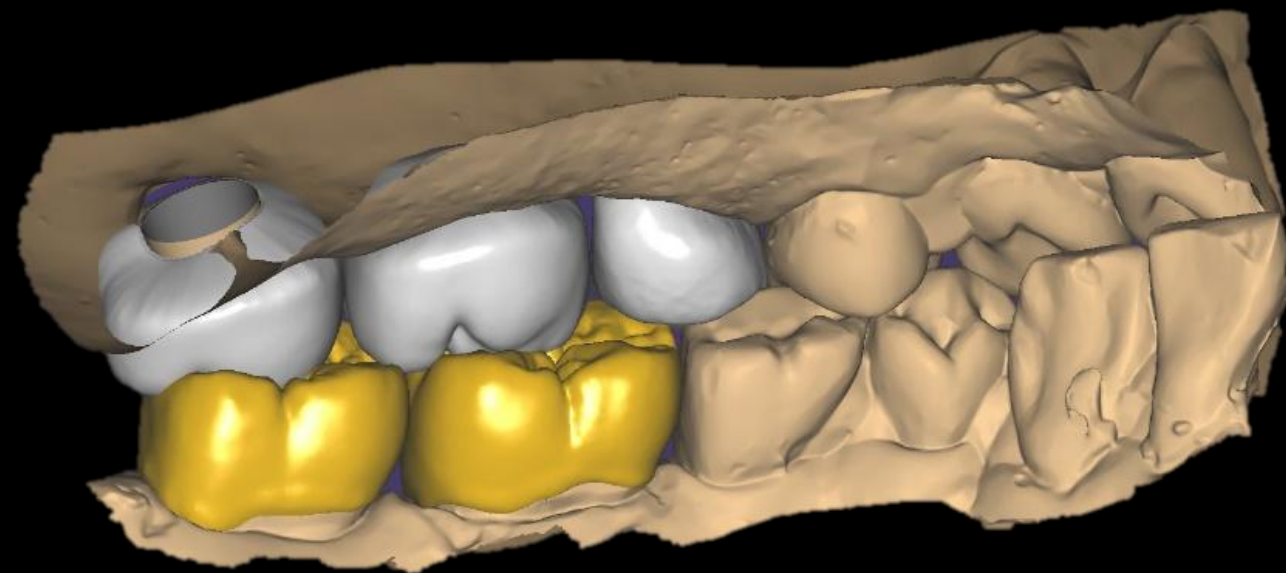
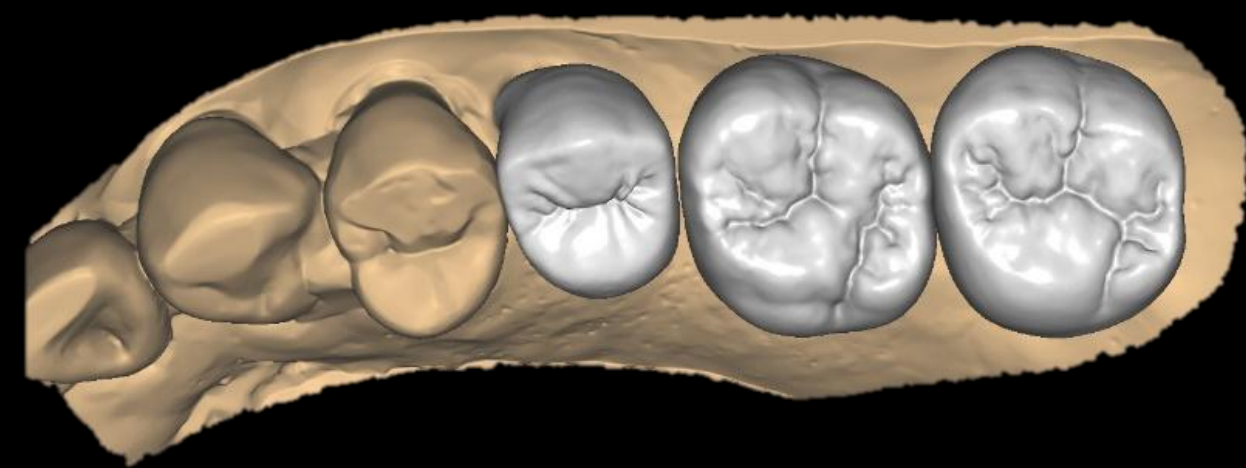
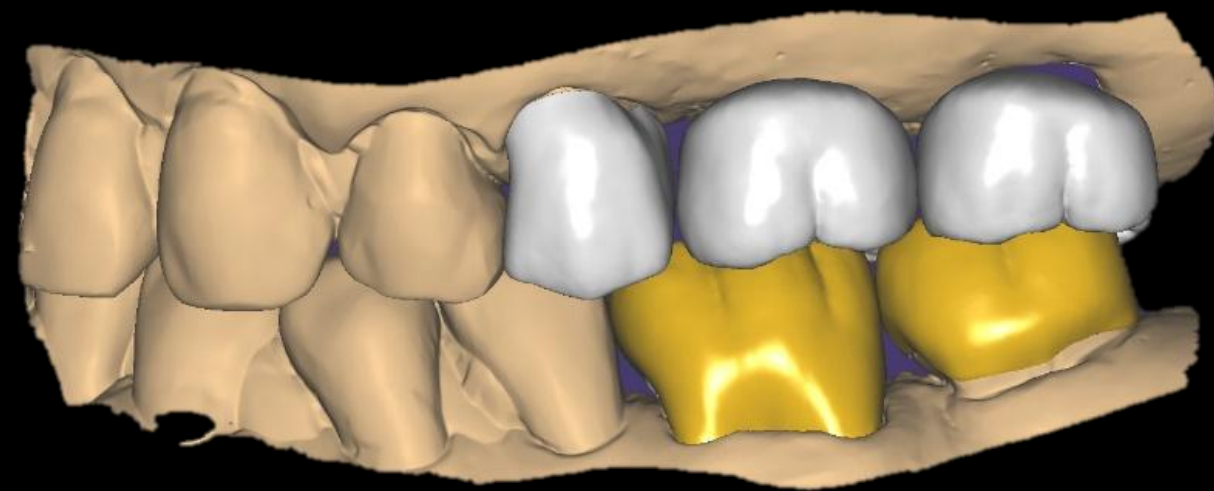
Follow up CT : 4 weeks (2024-10-30)

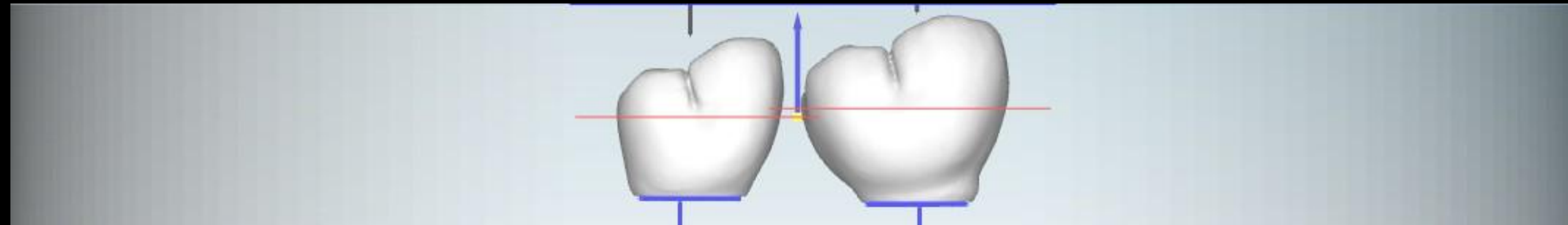


#26

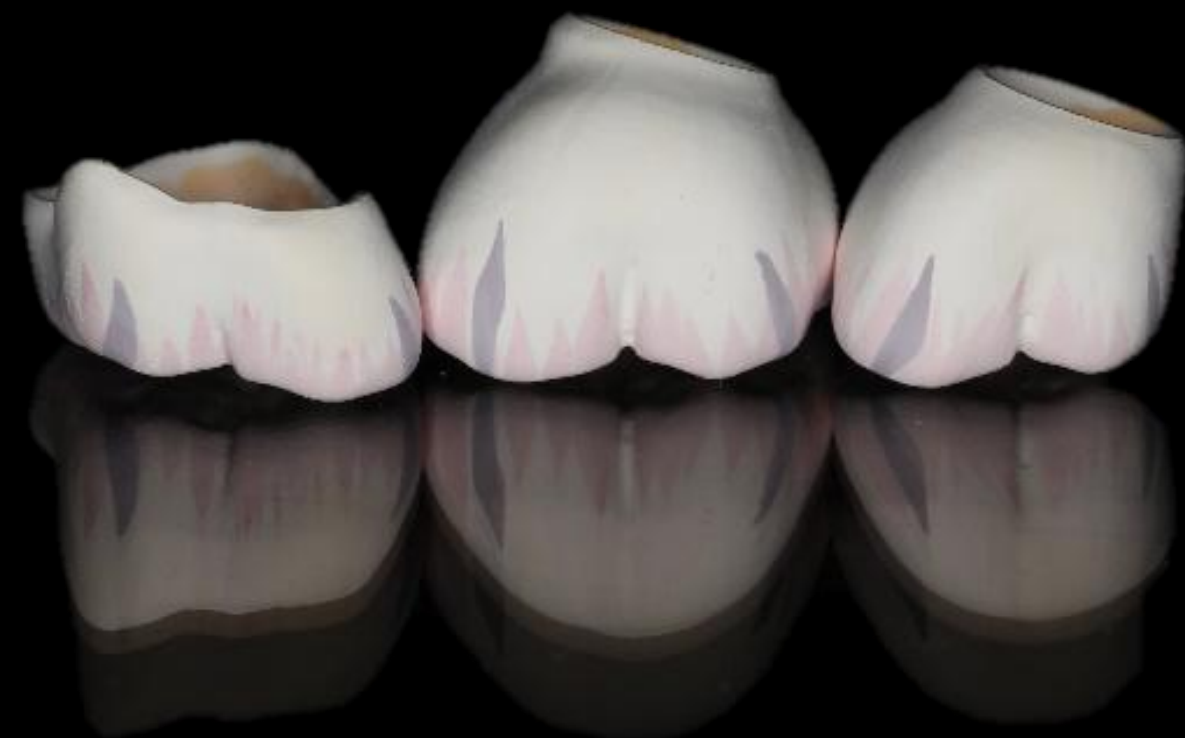


#27





bright Mono Block A3



Final Prosthesis



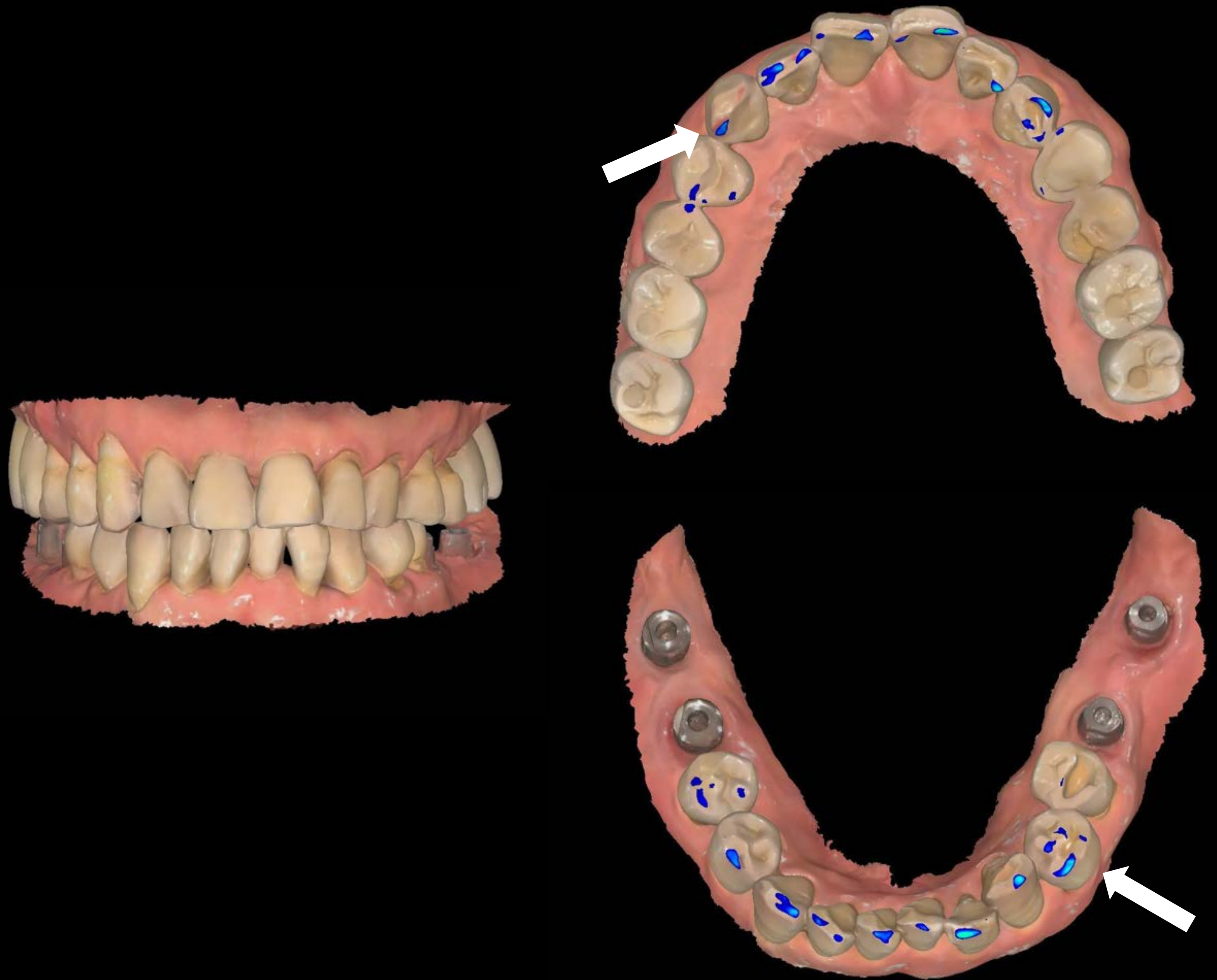
Final Prosthesis



- # 47i 46i , 36i 37i
- bright Tissue Level
- bright Bone Level
- Dentium SuperLine
- bright 3layer Block
- Model-less (Shining 3D AoralScan Elite Scanner)

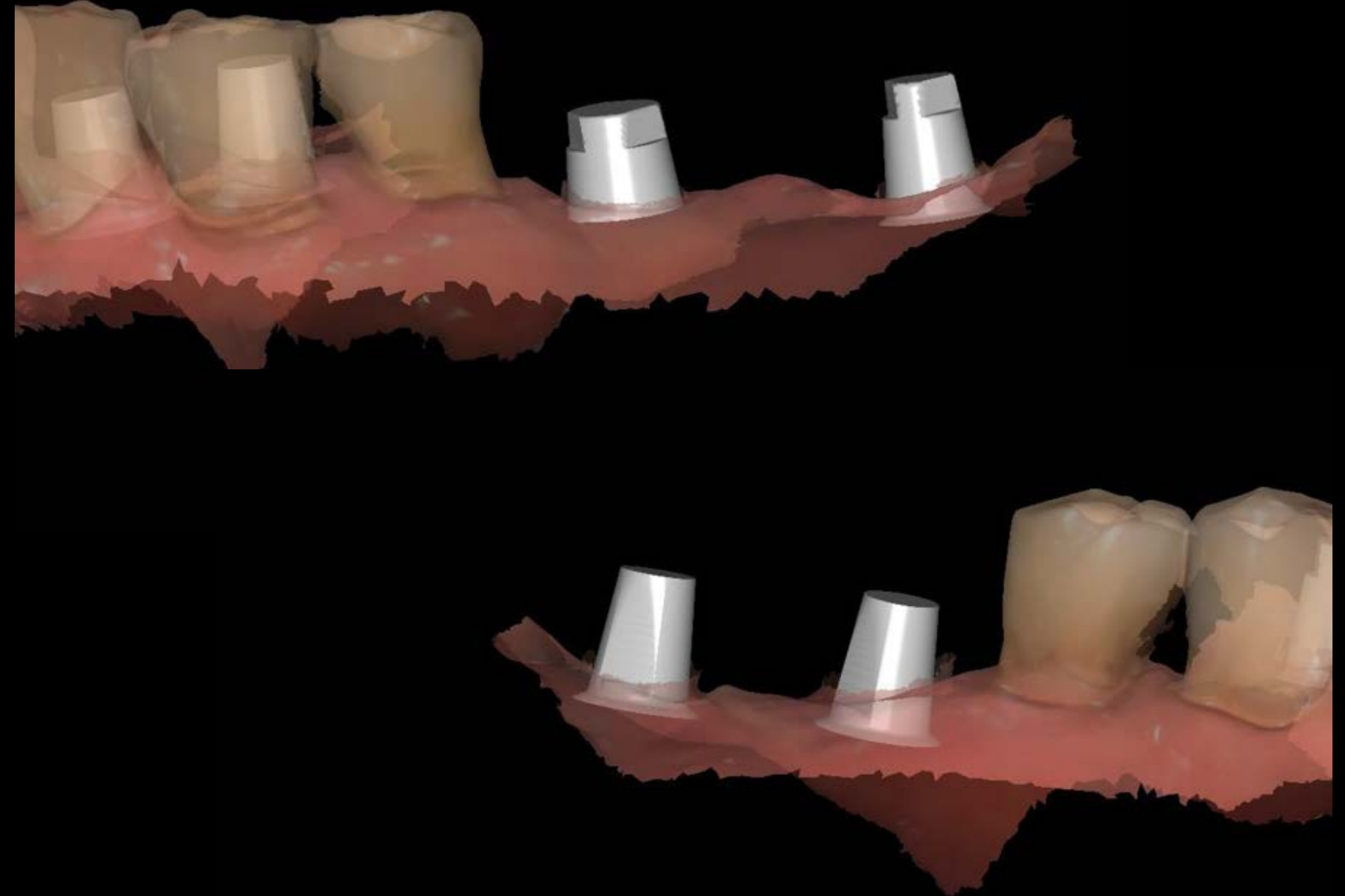


Intra Oral Scan



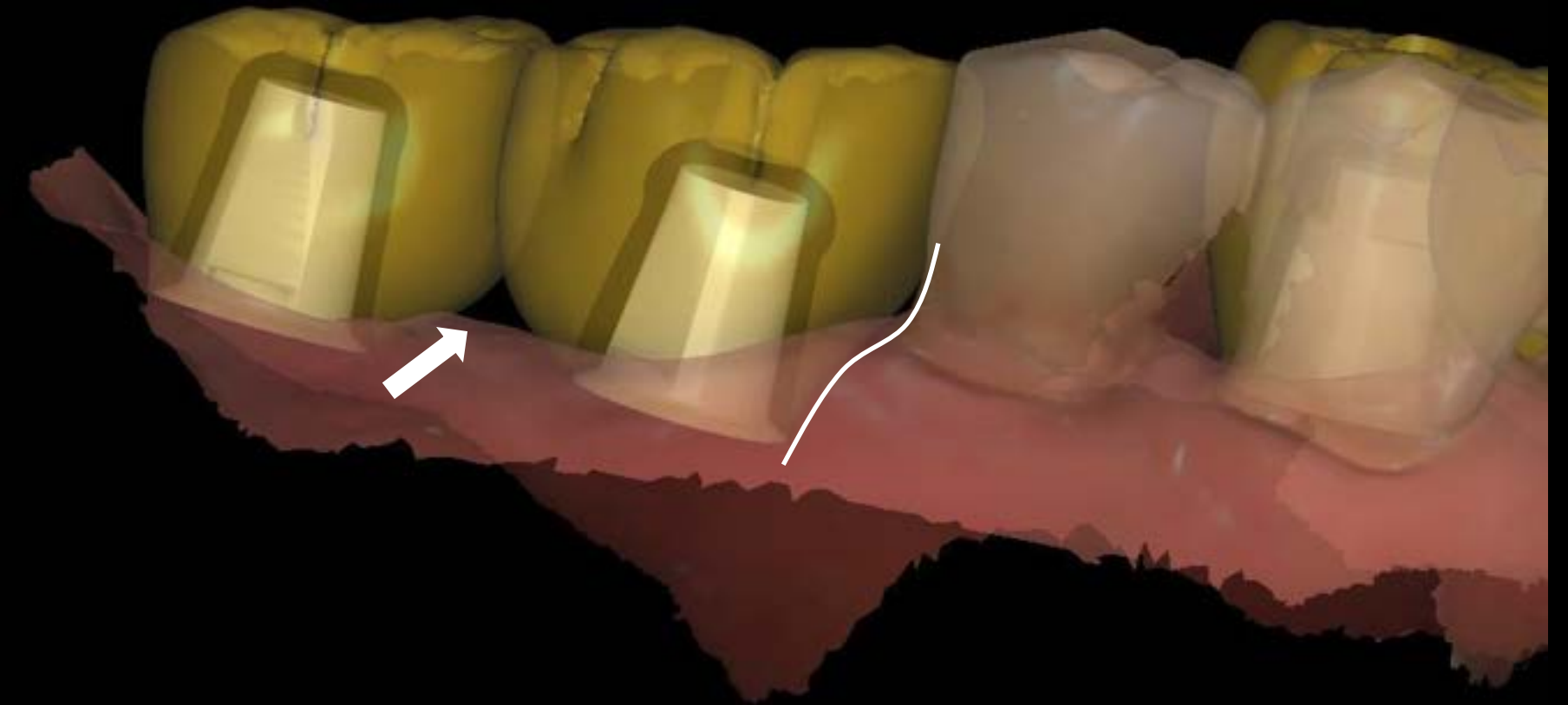
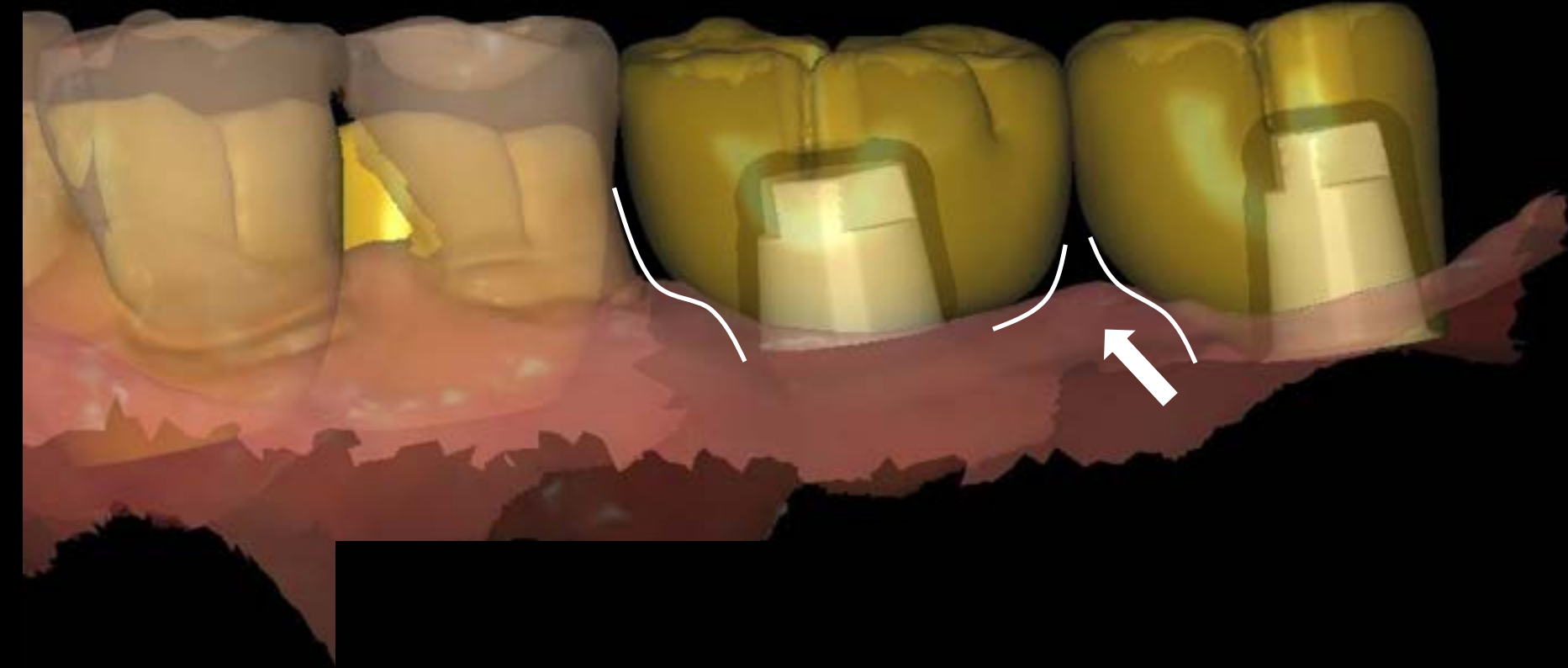
Free end posterior Model-Less

Abutment Select



bright TL & BL Digital Abutment & Ti-base Abutment
Super Line Dual Abutment

Cad Design

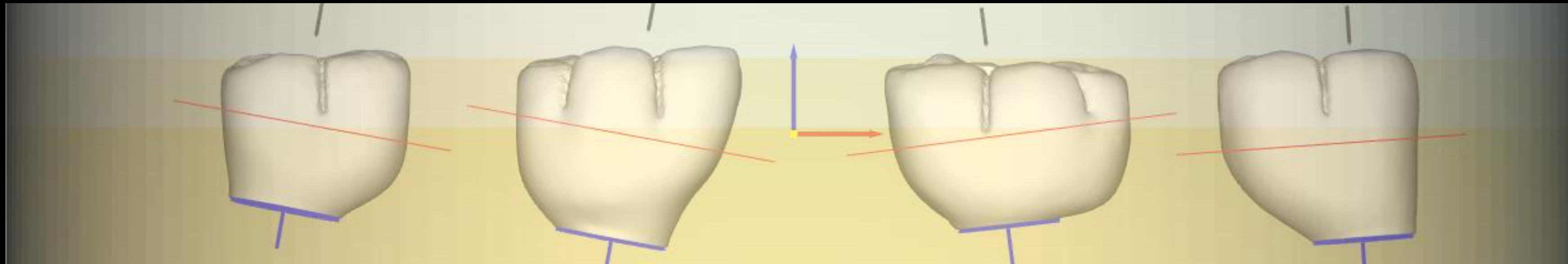


All Hexa Stock Abutment Single Cr & Designed to facilitate interproximal Self cleansing

Virtual Articulator



Hyper Dent



bright 3-Layer

bright 3-Layer



bright 3-Layer
No coloring & Stain

bright 3-Layer

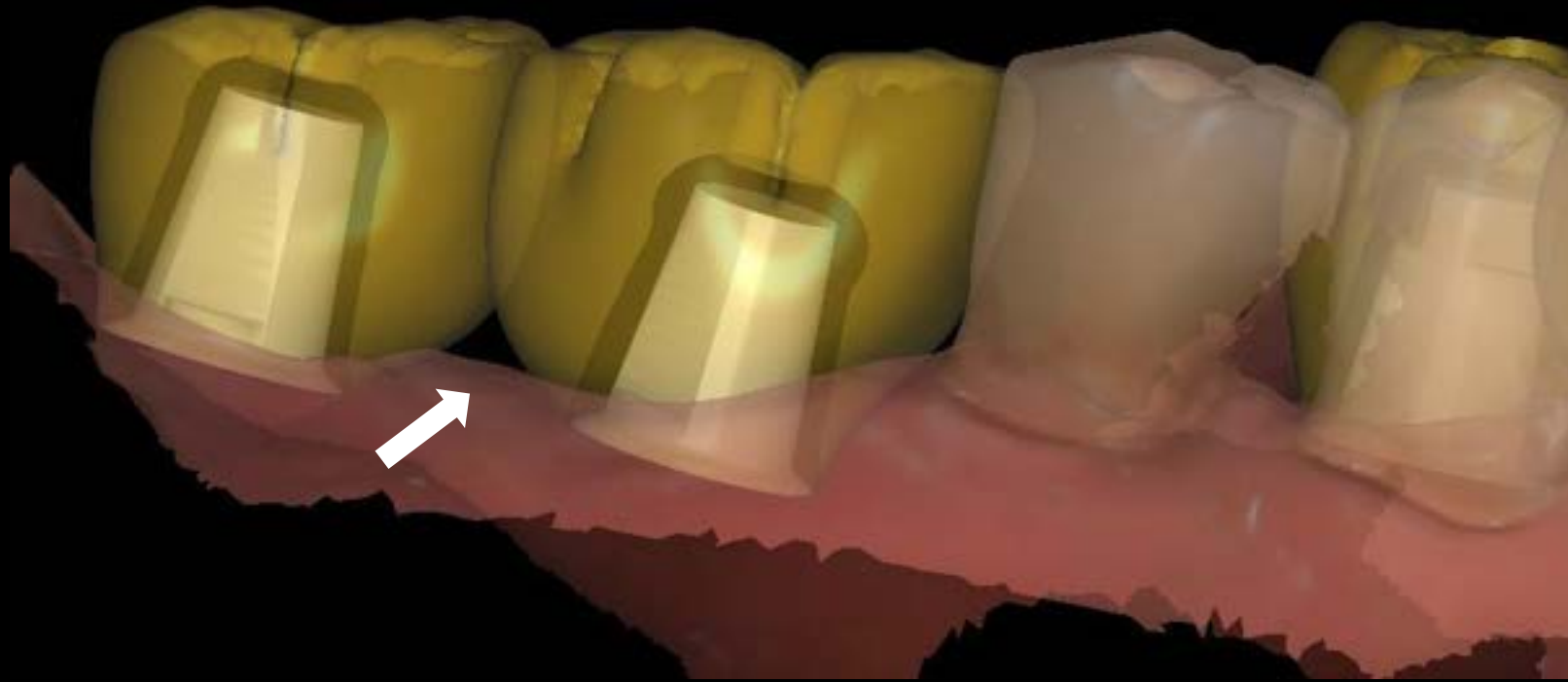


bright 3-Layer
No coloring & Stain

Final Prosthesis

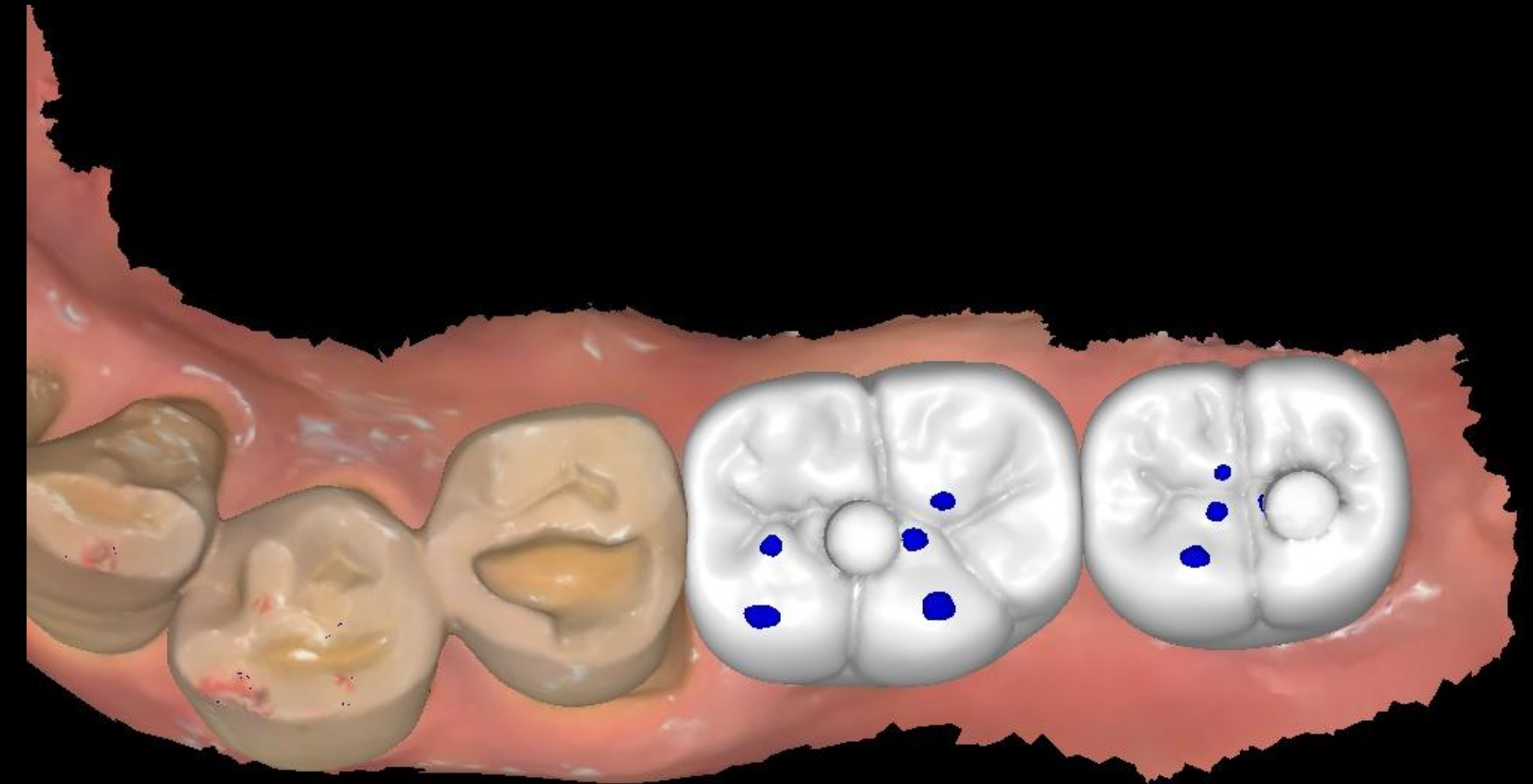
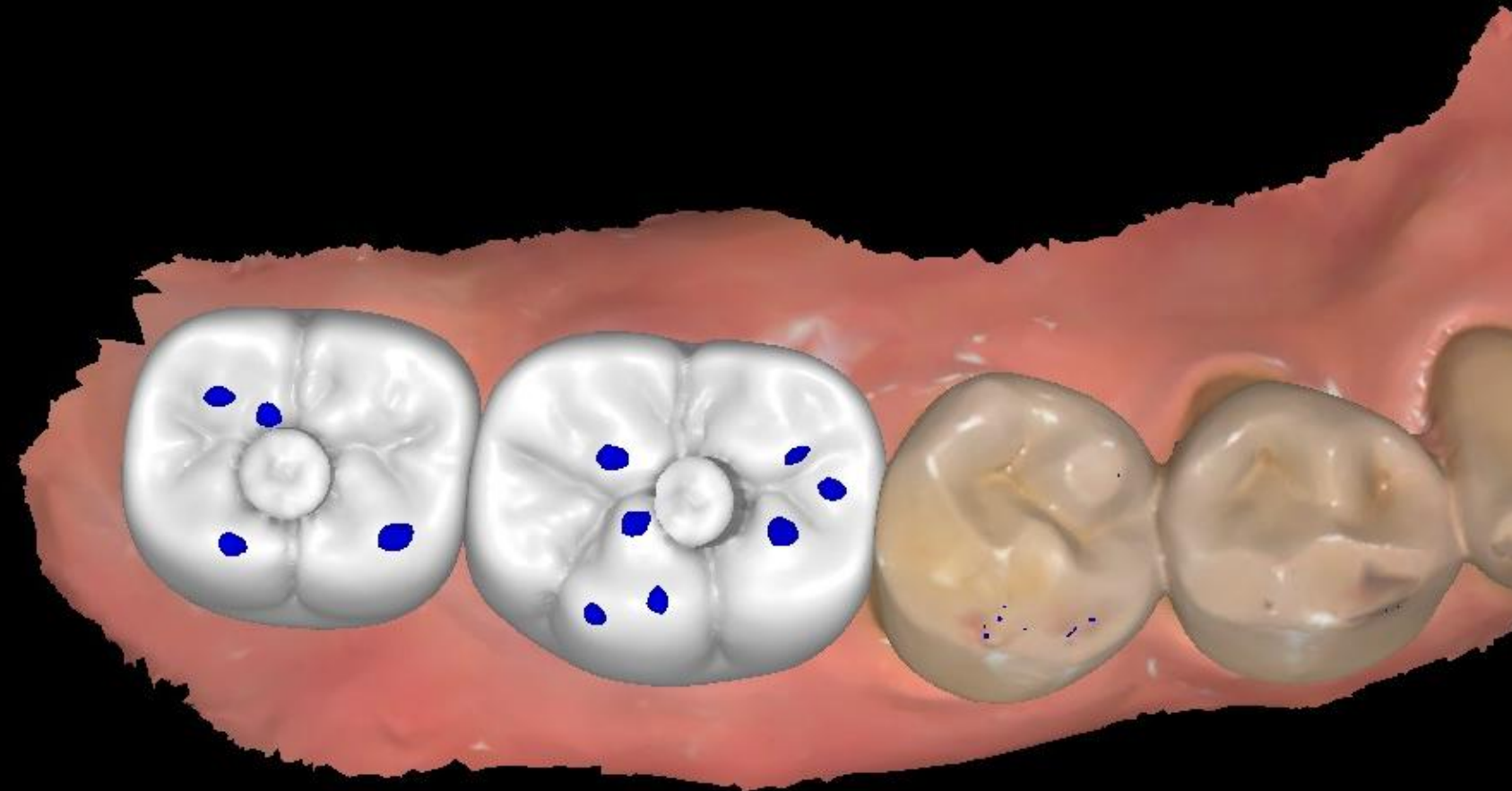


Final Prosthesis



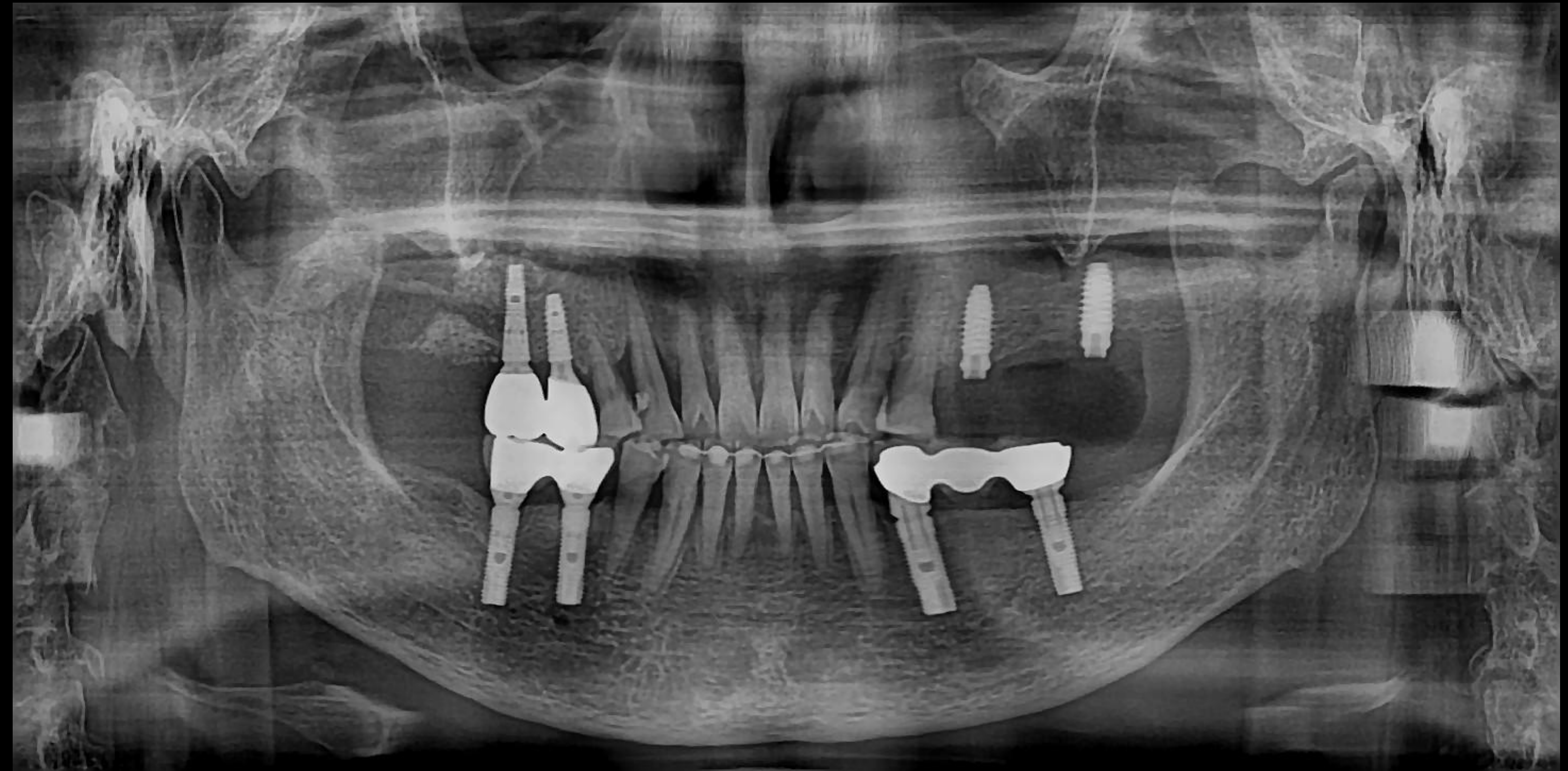
Designed to facilitate interproximal Self cleansing

Final Prosthesis



Shining 3D AoralScan Elite / Free end Posterior case

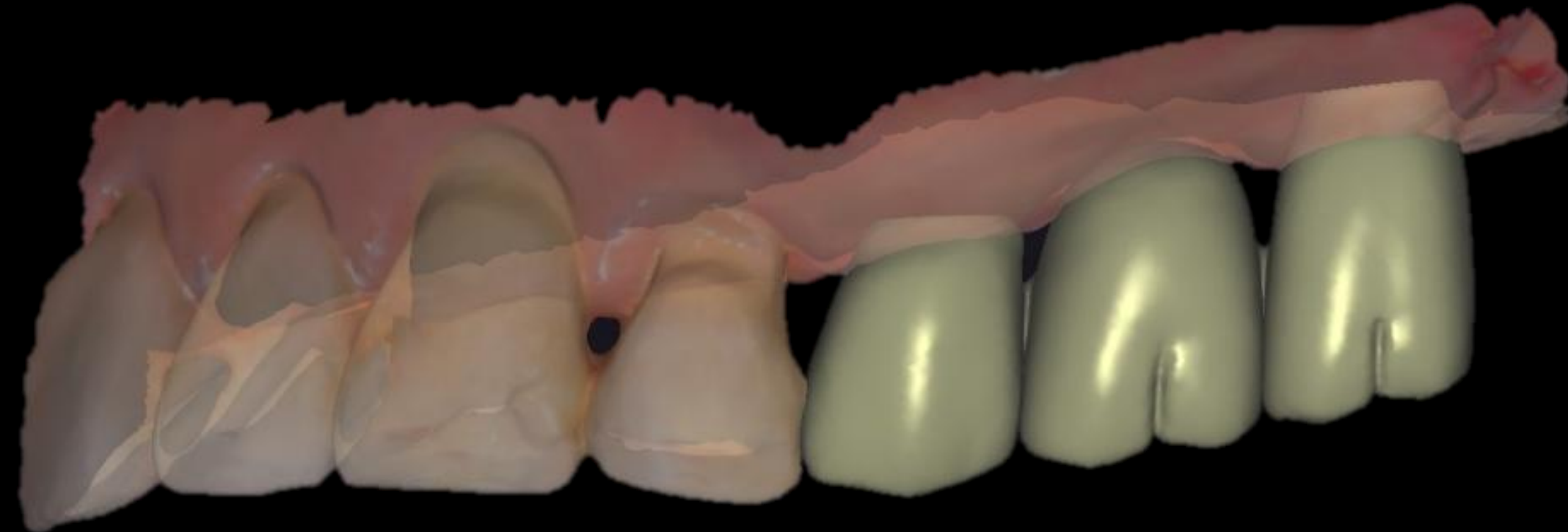
- # 25i x 27i
- bright Tissue Level
- Shade A3.5
- 3 Layer Block



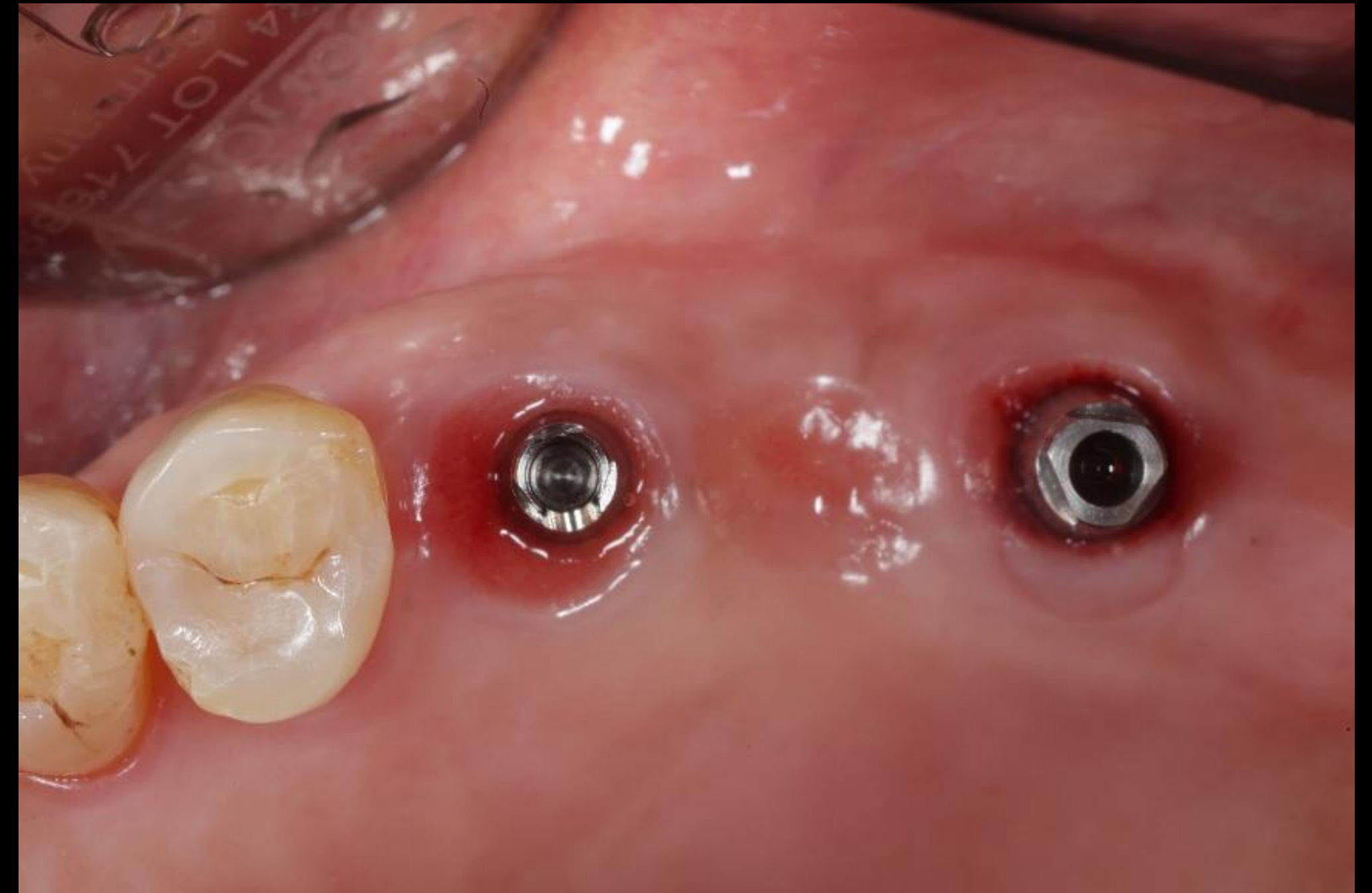
Working Model



Cad Design

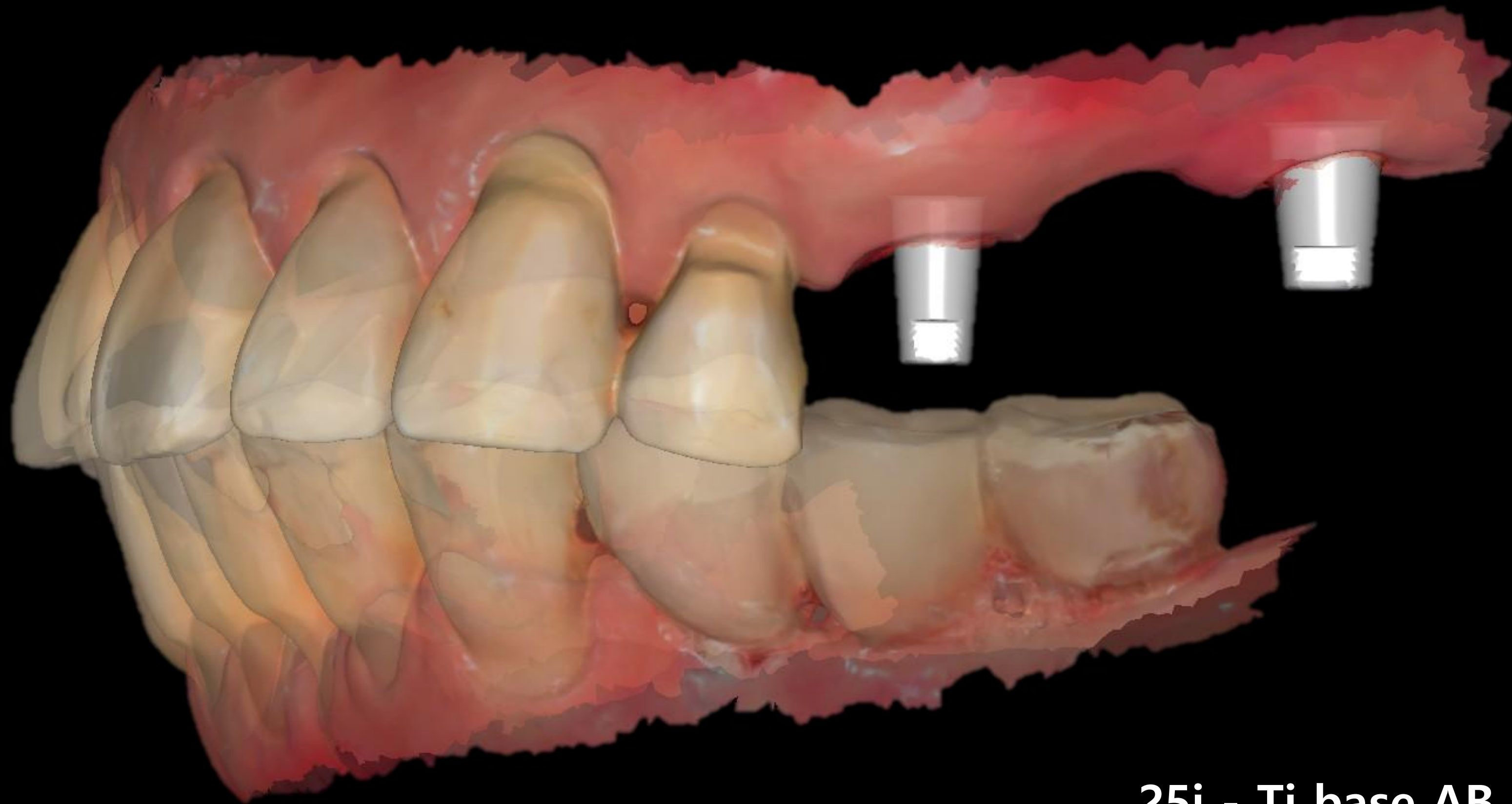


Temporary Crown design
(2025.04)



Tissue & Pontic base molding

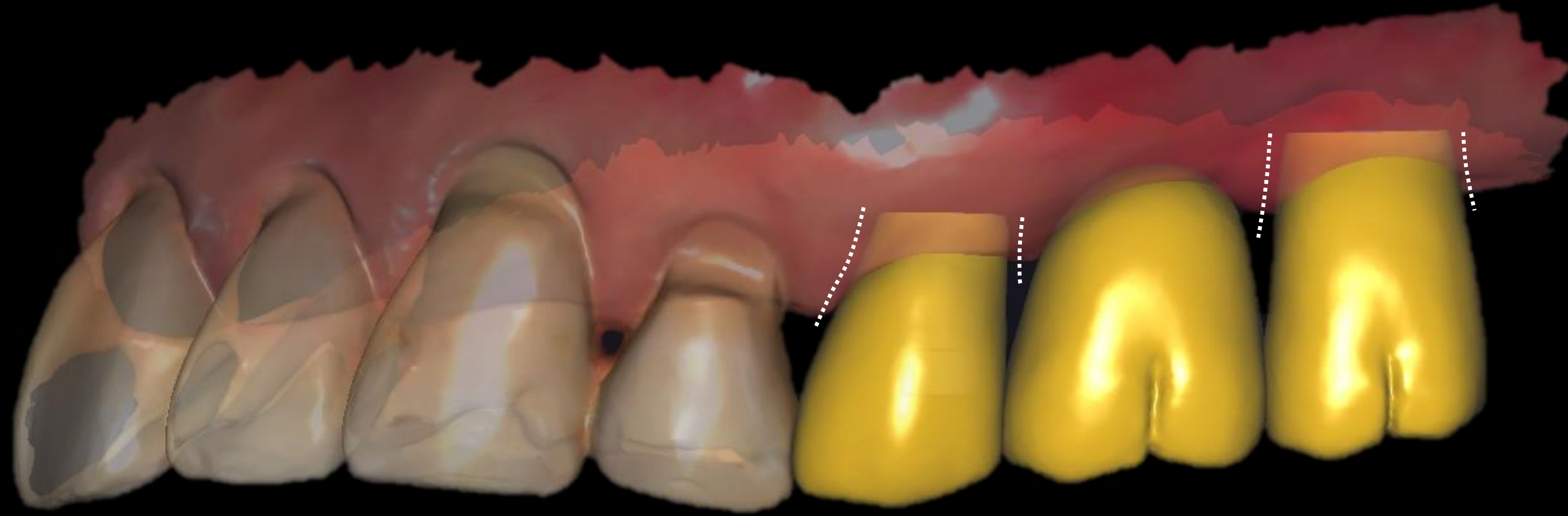
Cad Design



25i - Ti base AB Ø3.8 GH1.0

27i - Ti base AB Ø5.0 GH2.0

Cad Design

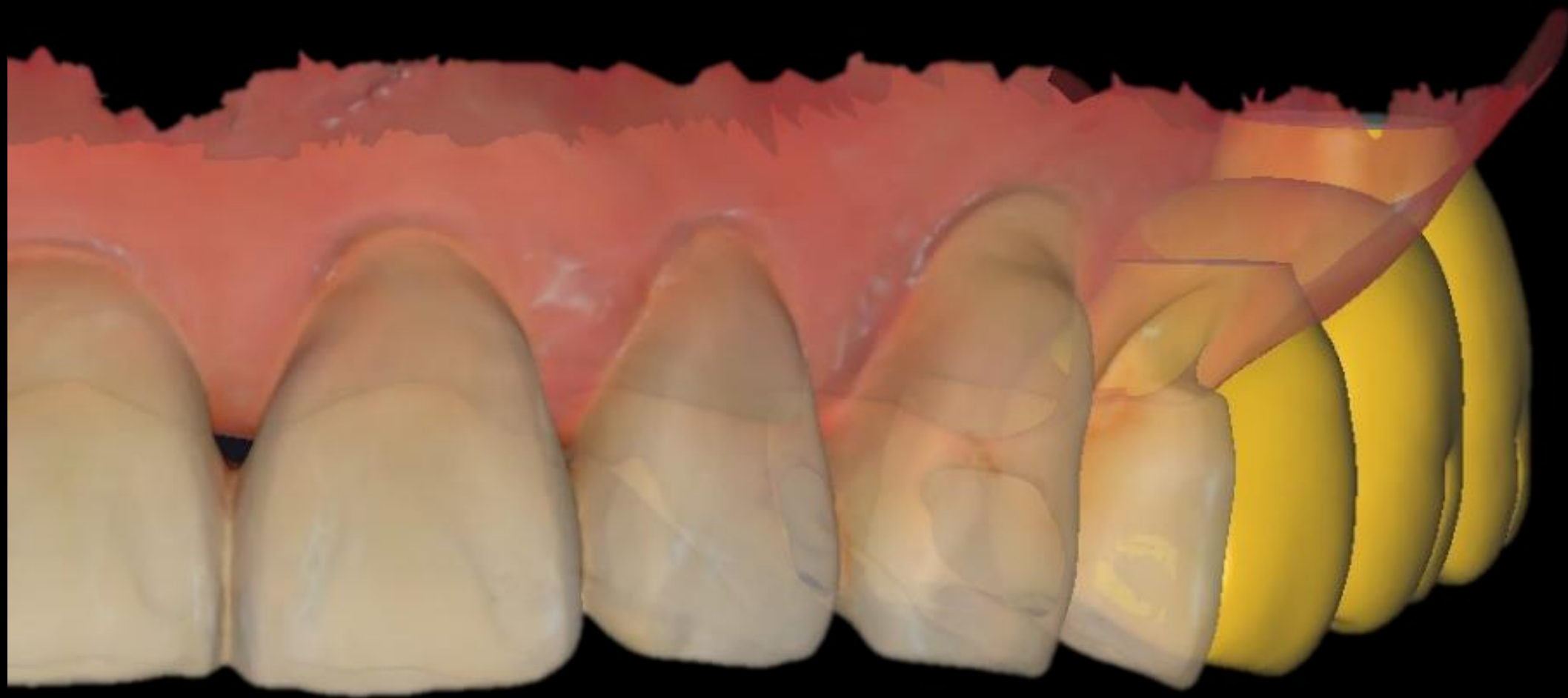


Cad Design

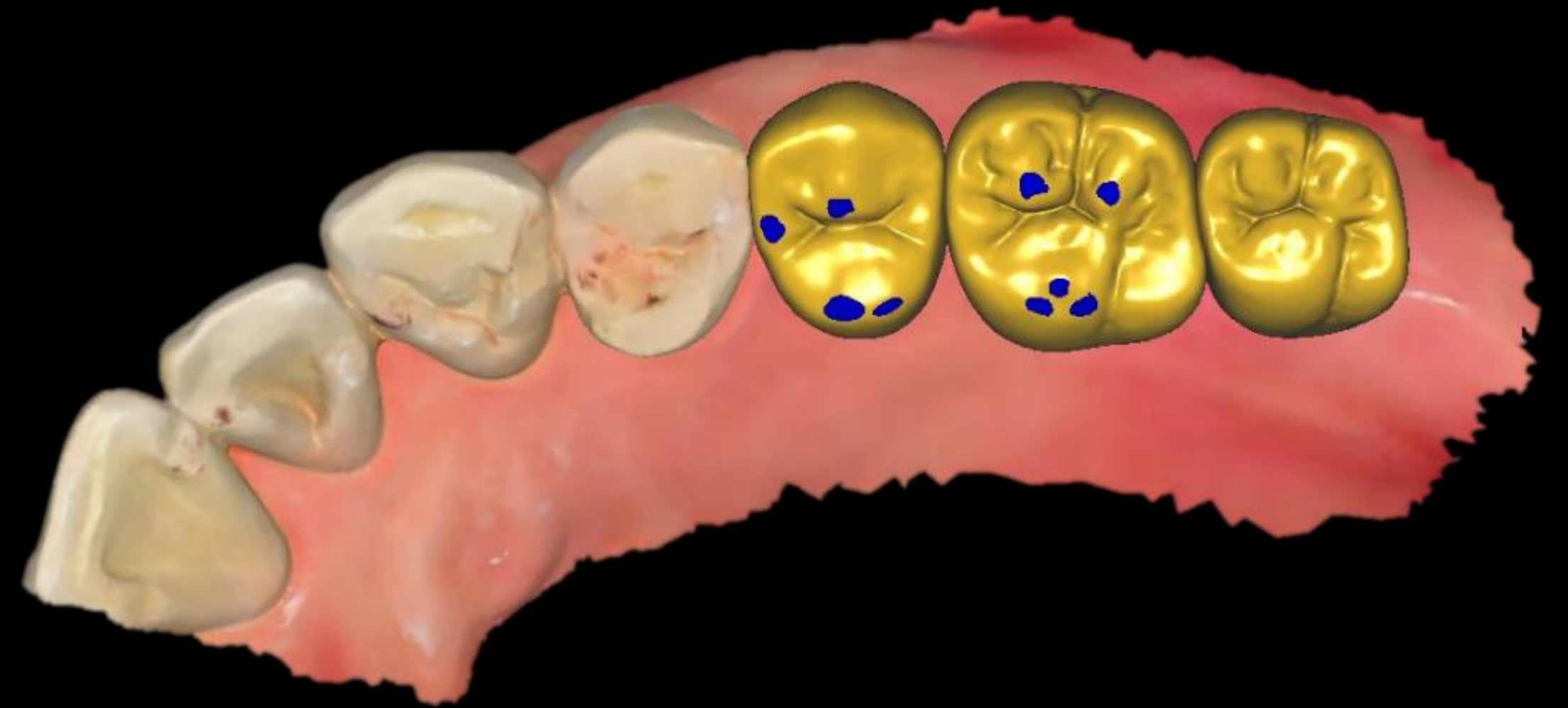
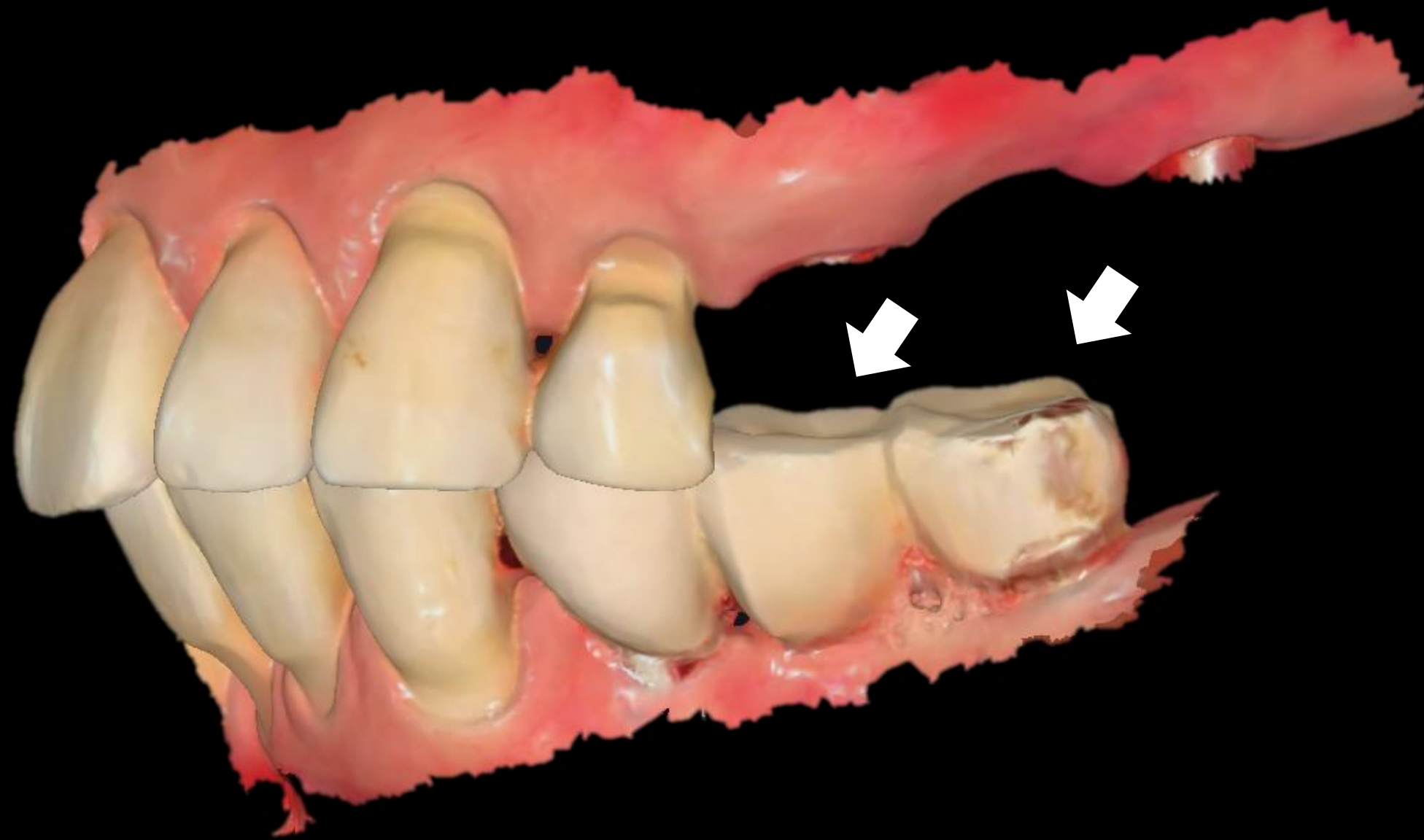


Ovate Pontic – Upperjaw 0.4mm

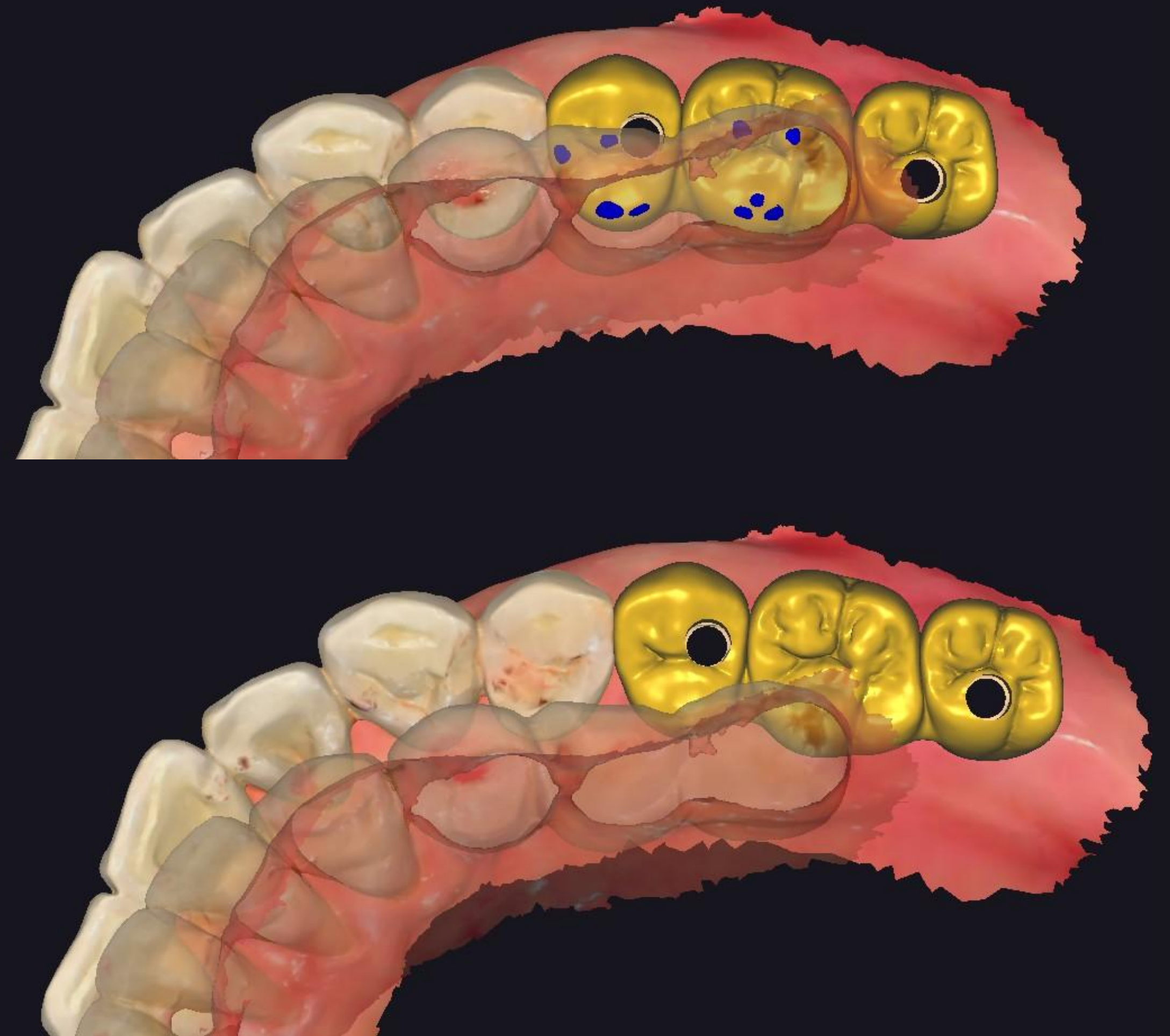
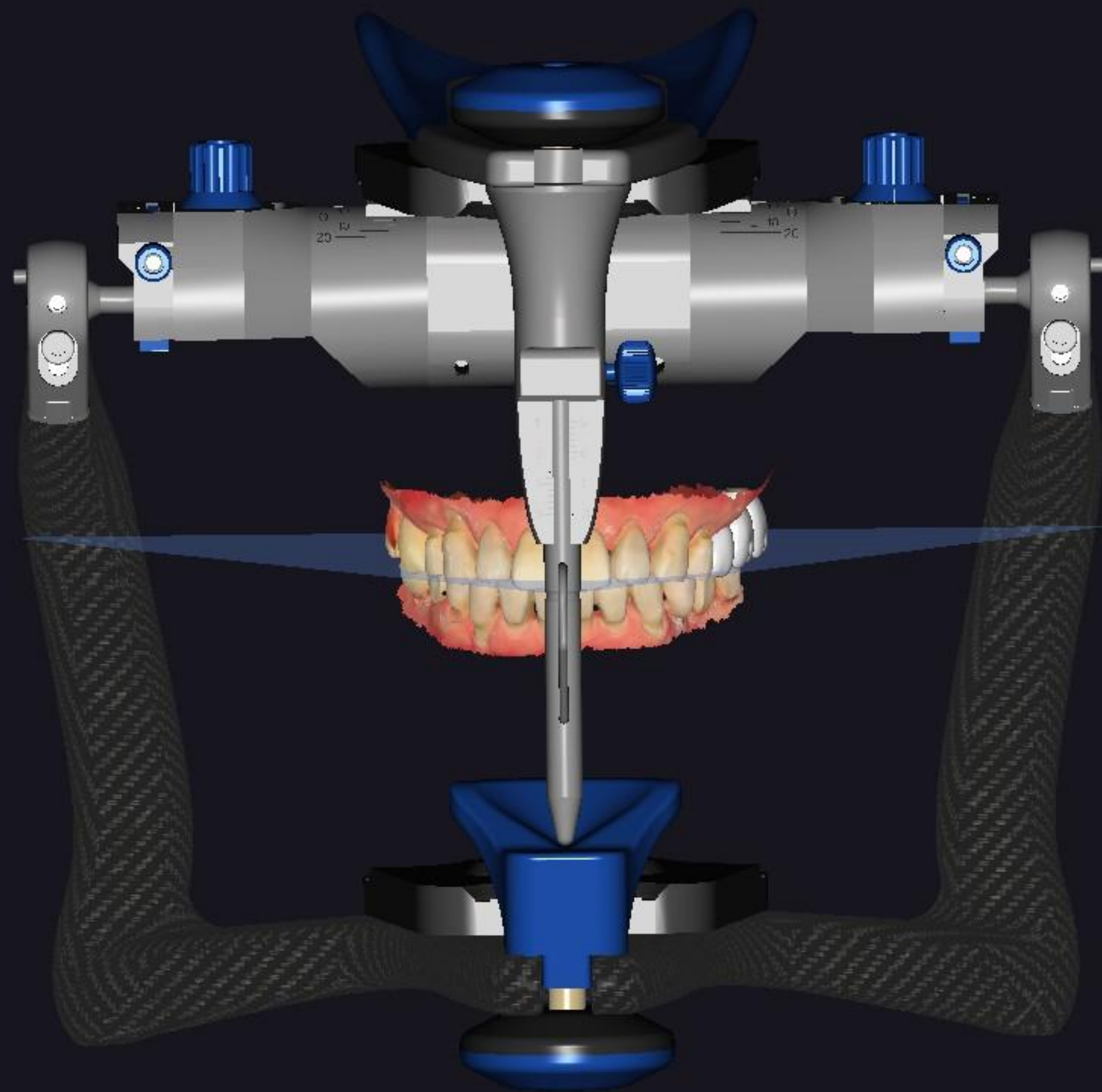
Cad Design



Cad Design



Cad Design

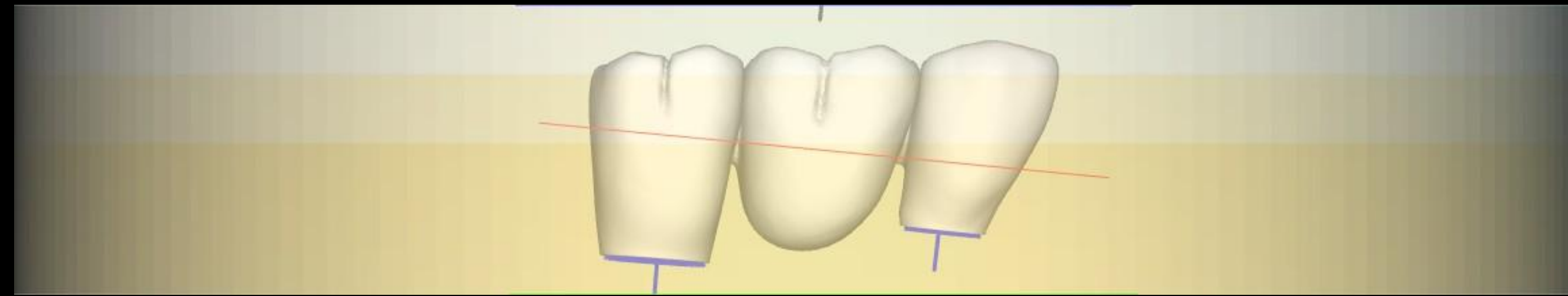


Virtual articulator

Shade Taking



Hyper Dent



3 Layer Block A3.5 18T



Inner - White Opaque

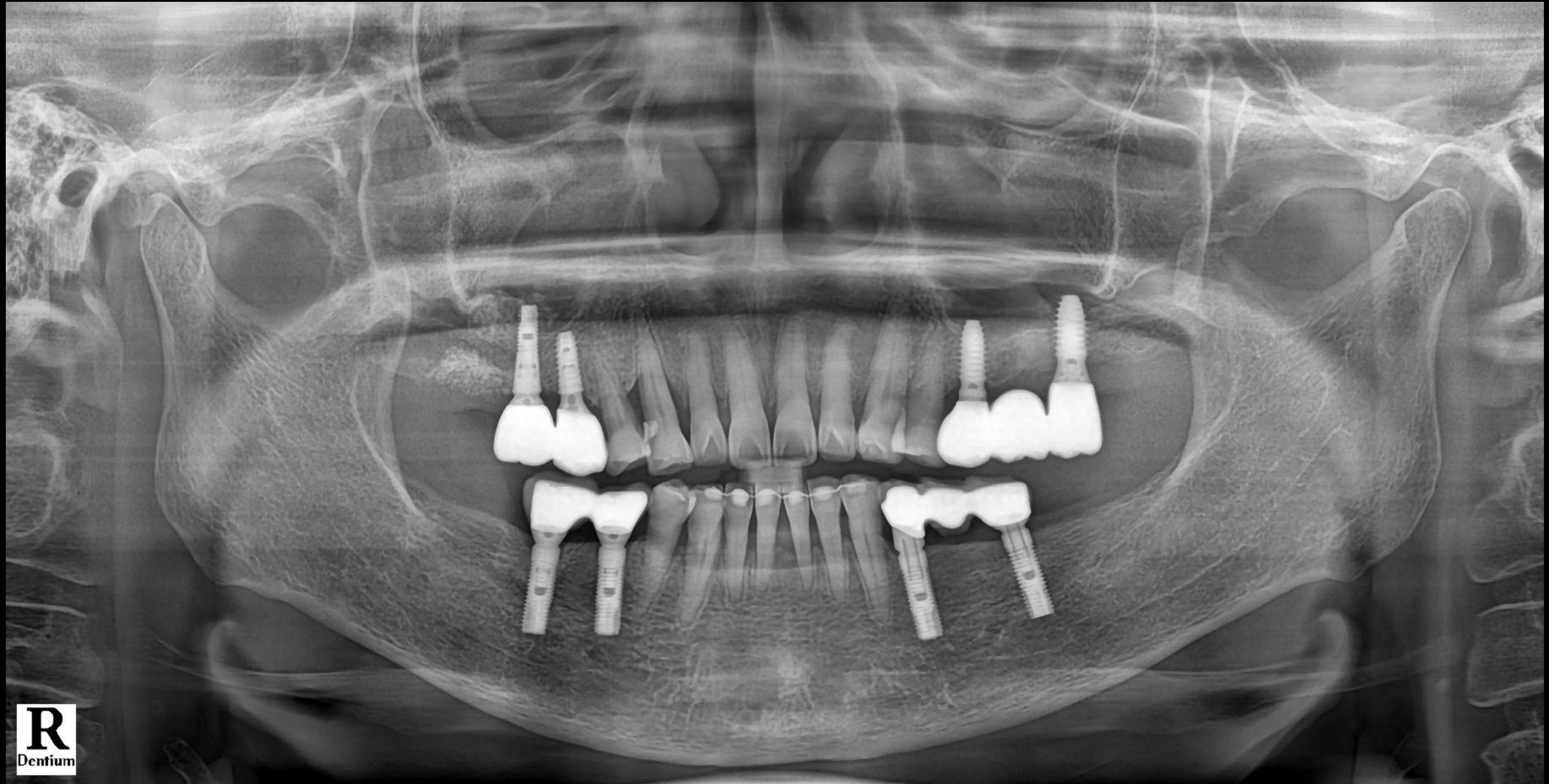


Glazing

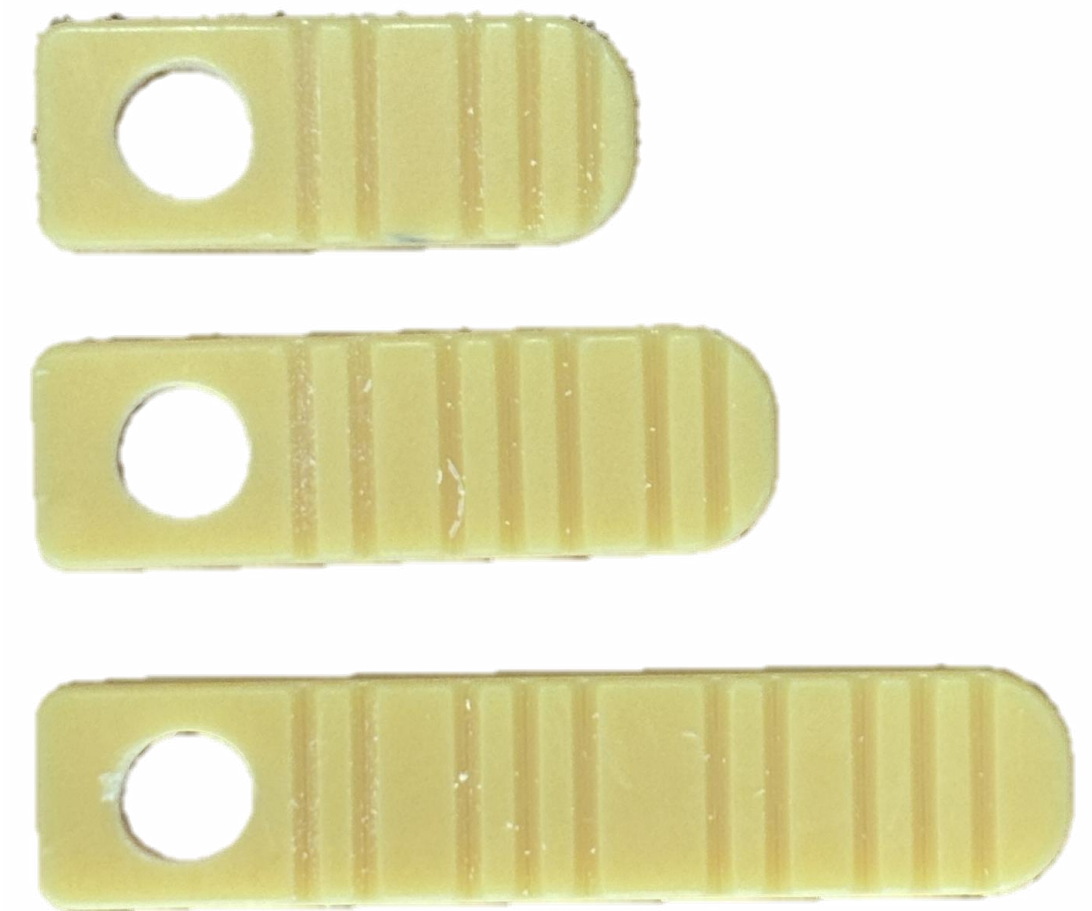
Final Prosthesis

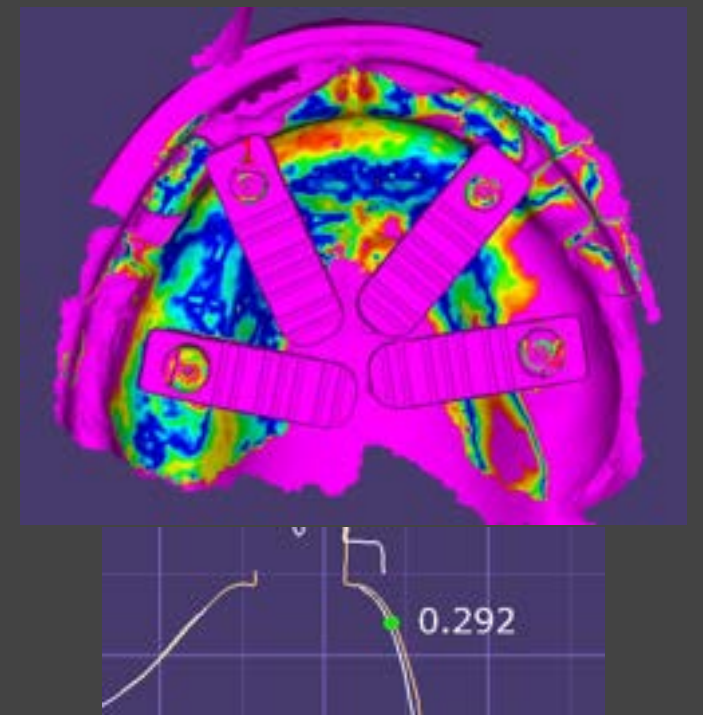
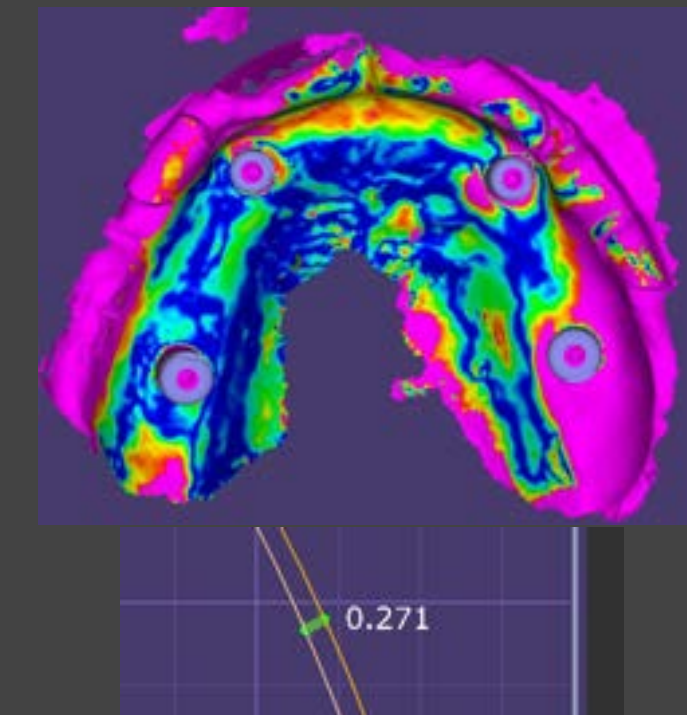
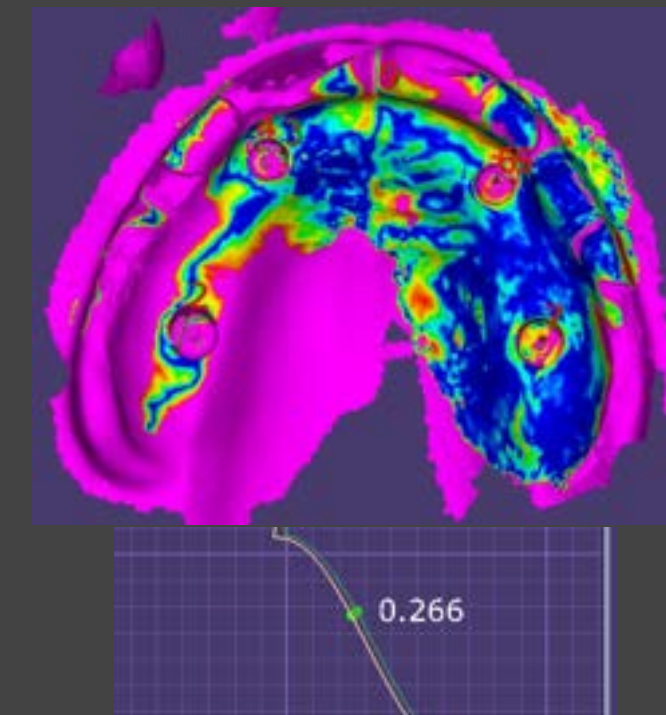
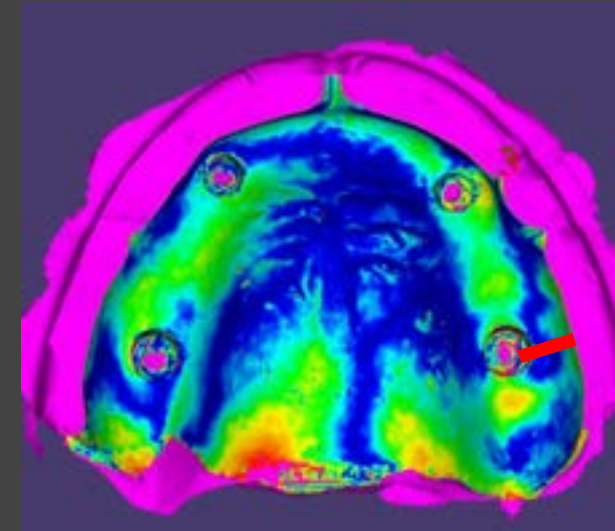
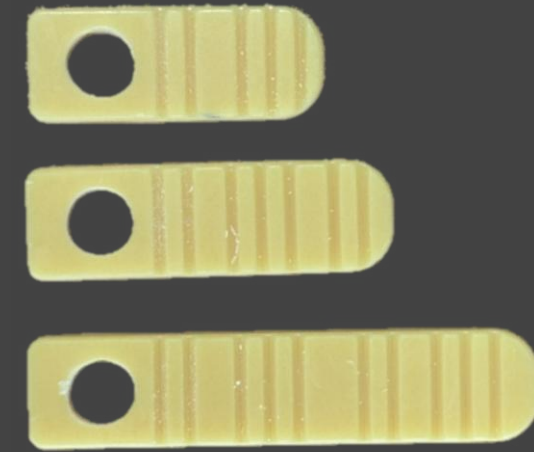
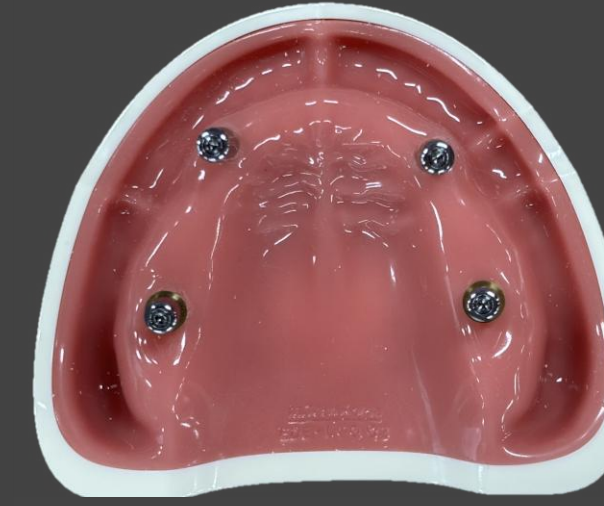
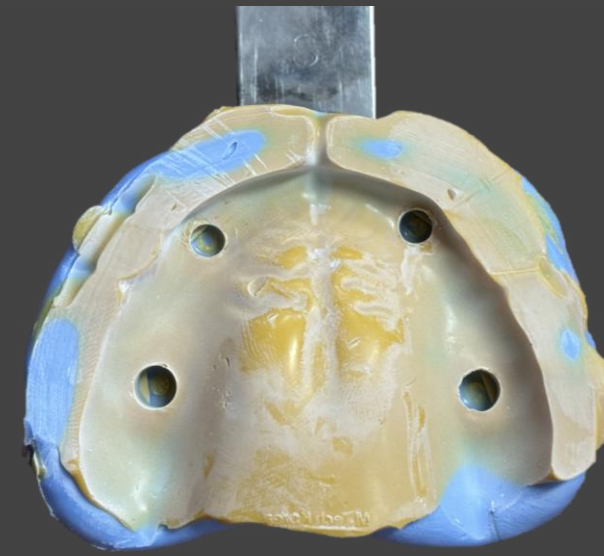
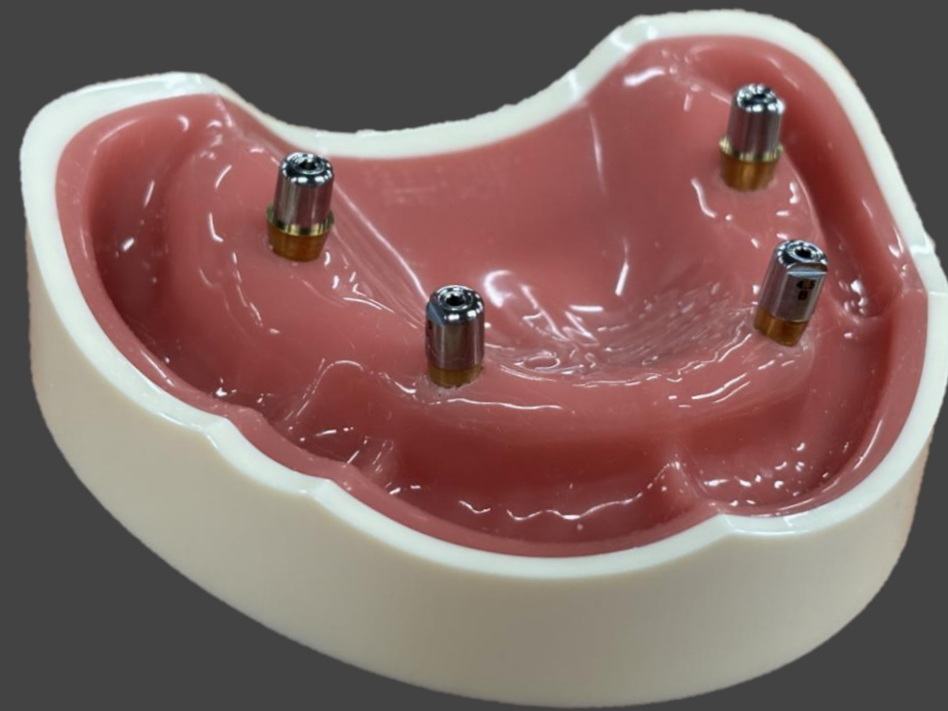


Final Prosthesis



Evaluation of scan jig for IOS of edentulism

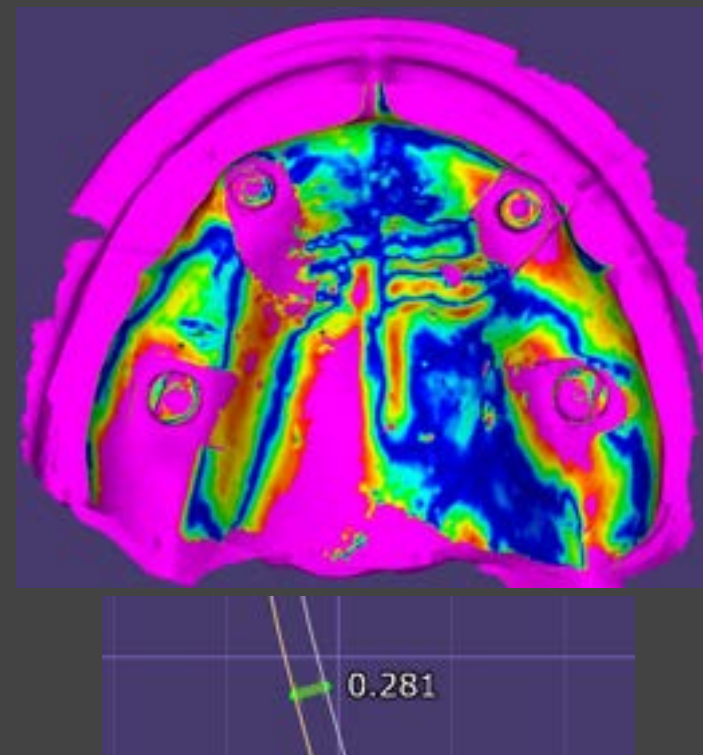
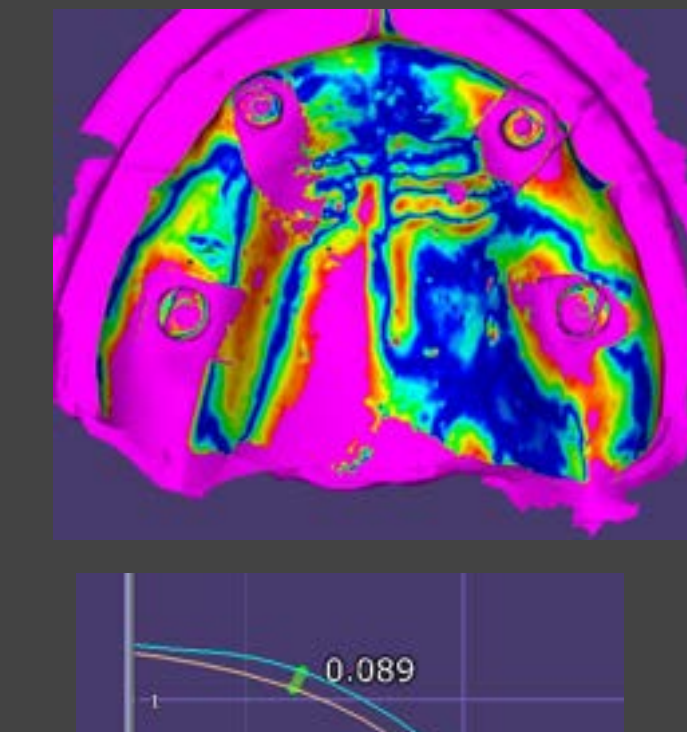
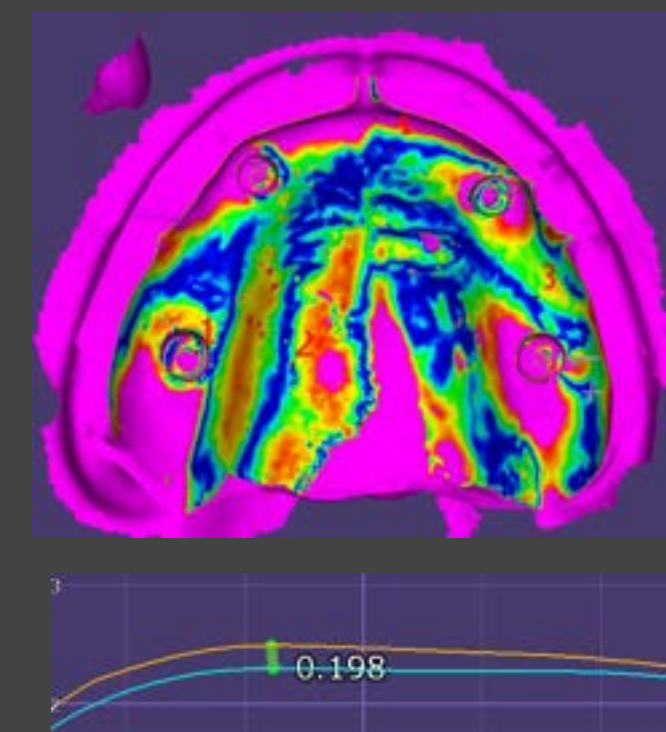




BTS = BOS

Photogrammetry jig and simple jig are similar and fit well

Without Jig is less hittable



Contents

Introduction

Tooth oriented

Facial driven

CT centered

Facial scanner

Facial photo

CT soft tissue profile

Virtual Set up



Virtual Set up



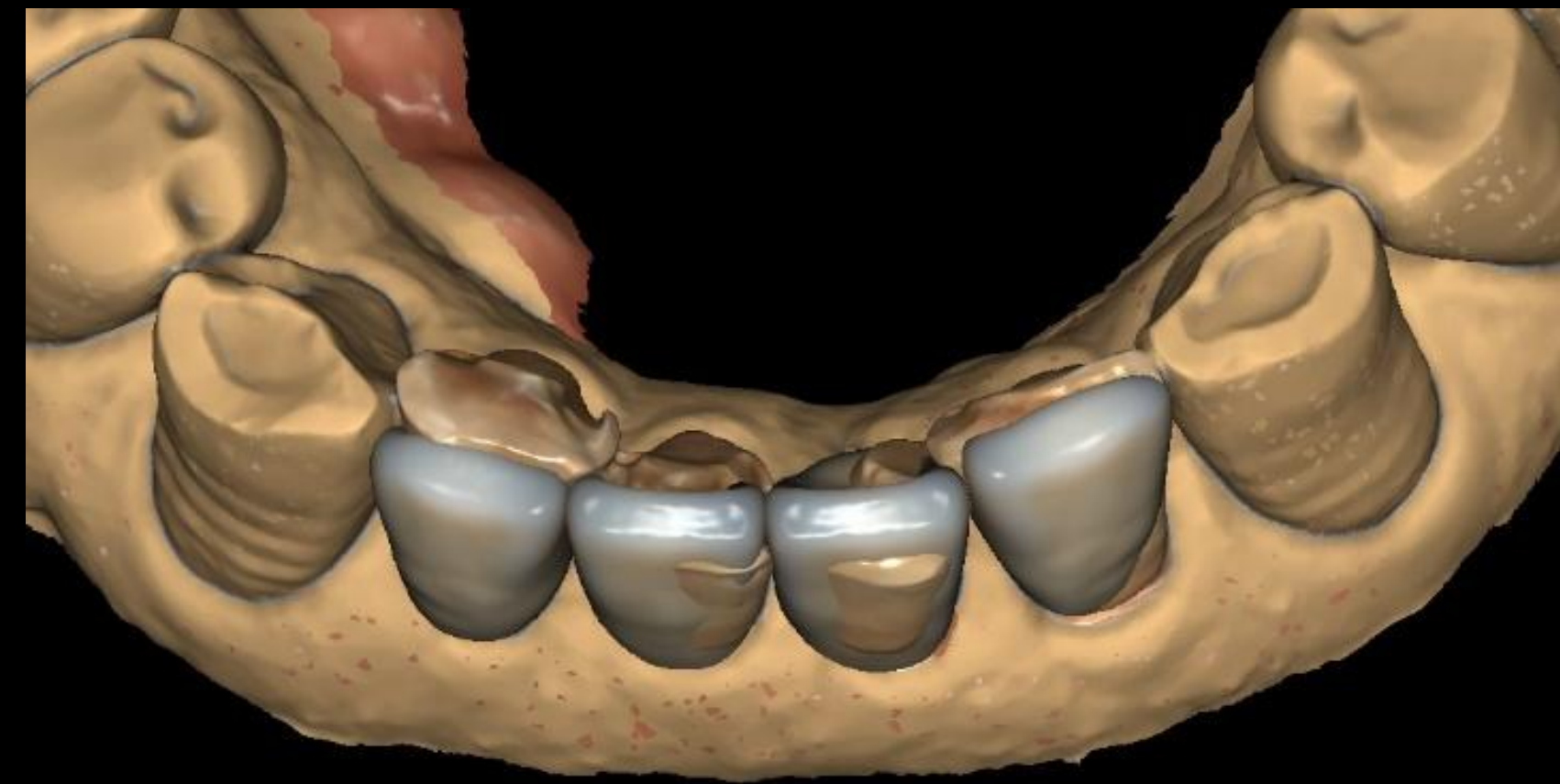
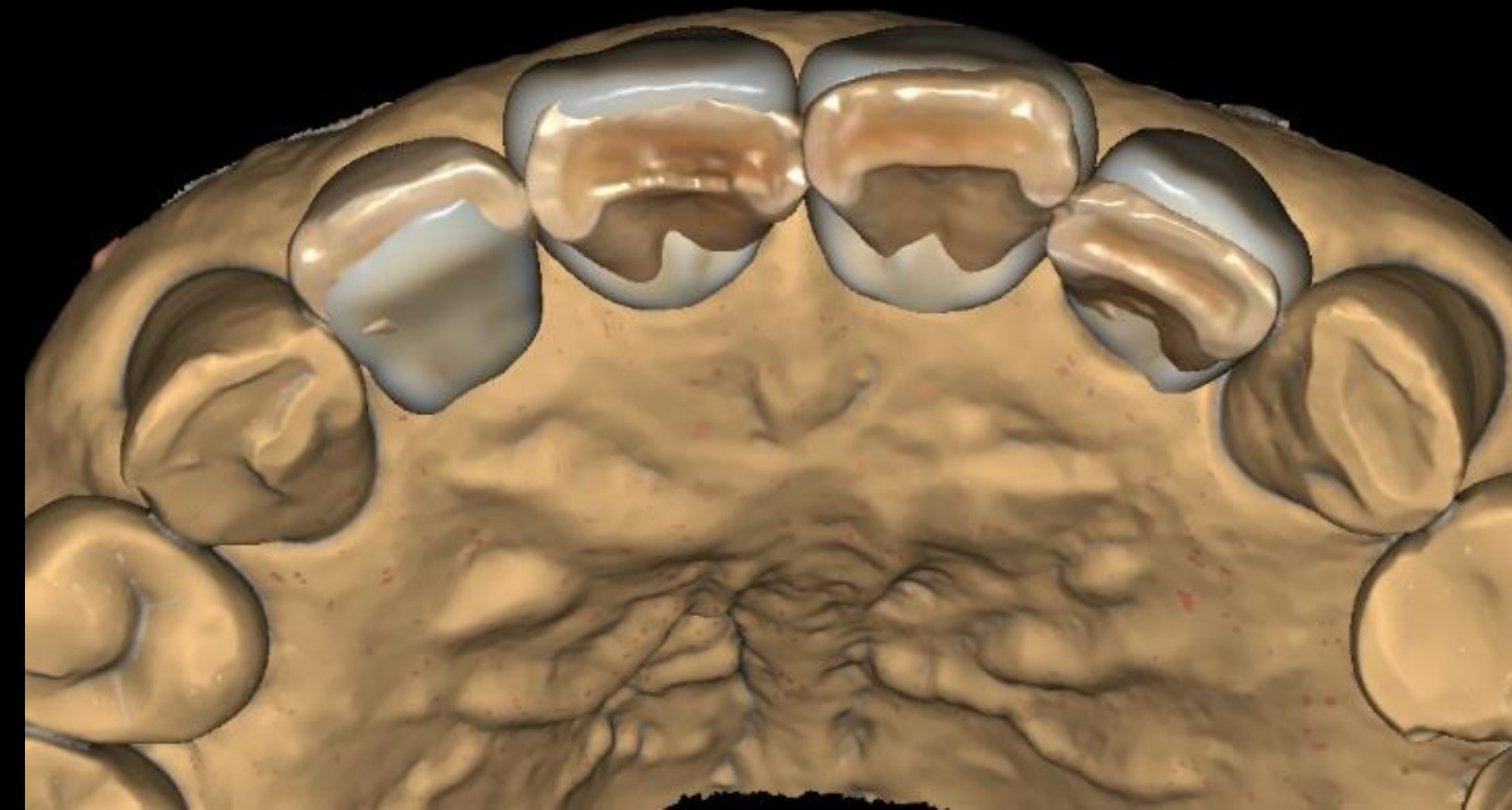
VD 2mm ↑



PT dental consulting



Face Scan data + virtual set up



Pre op data + virtual set up

Provisonal restoration



Pre op

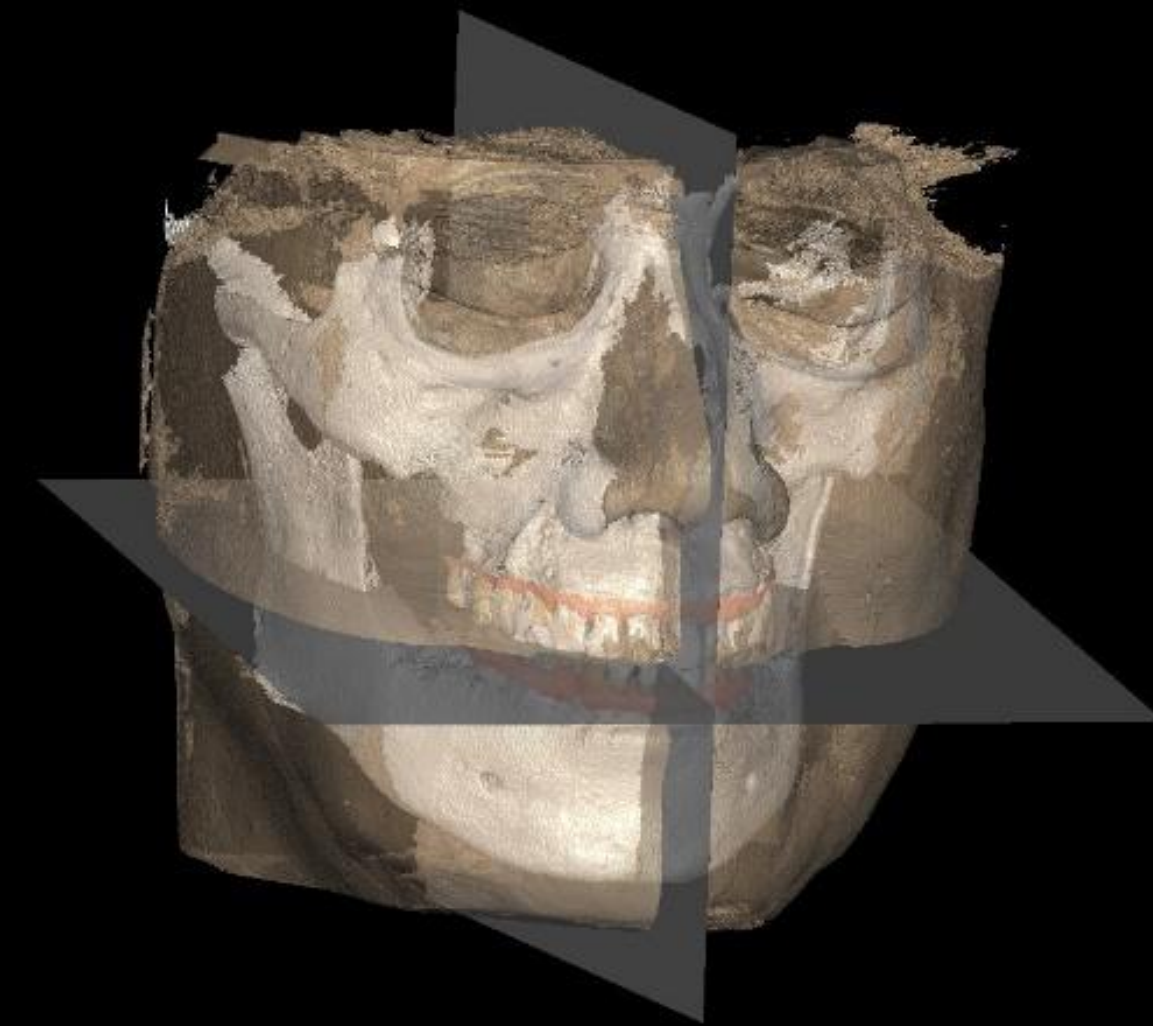
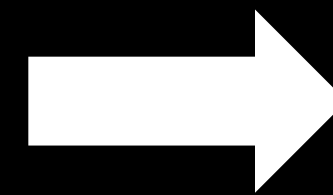


Provisonal restoration

Working model



Face scan data



CT Data AI Occlusal Plane & Soft, Hard Tissue

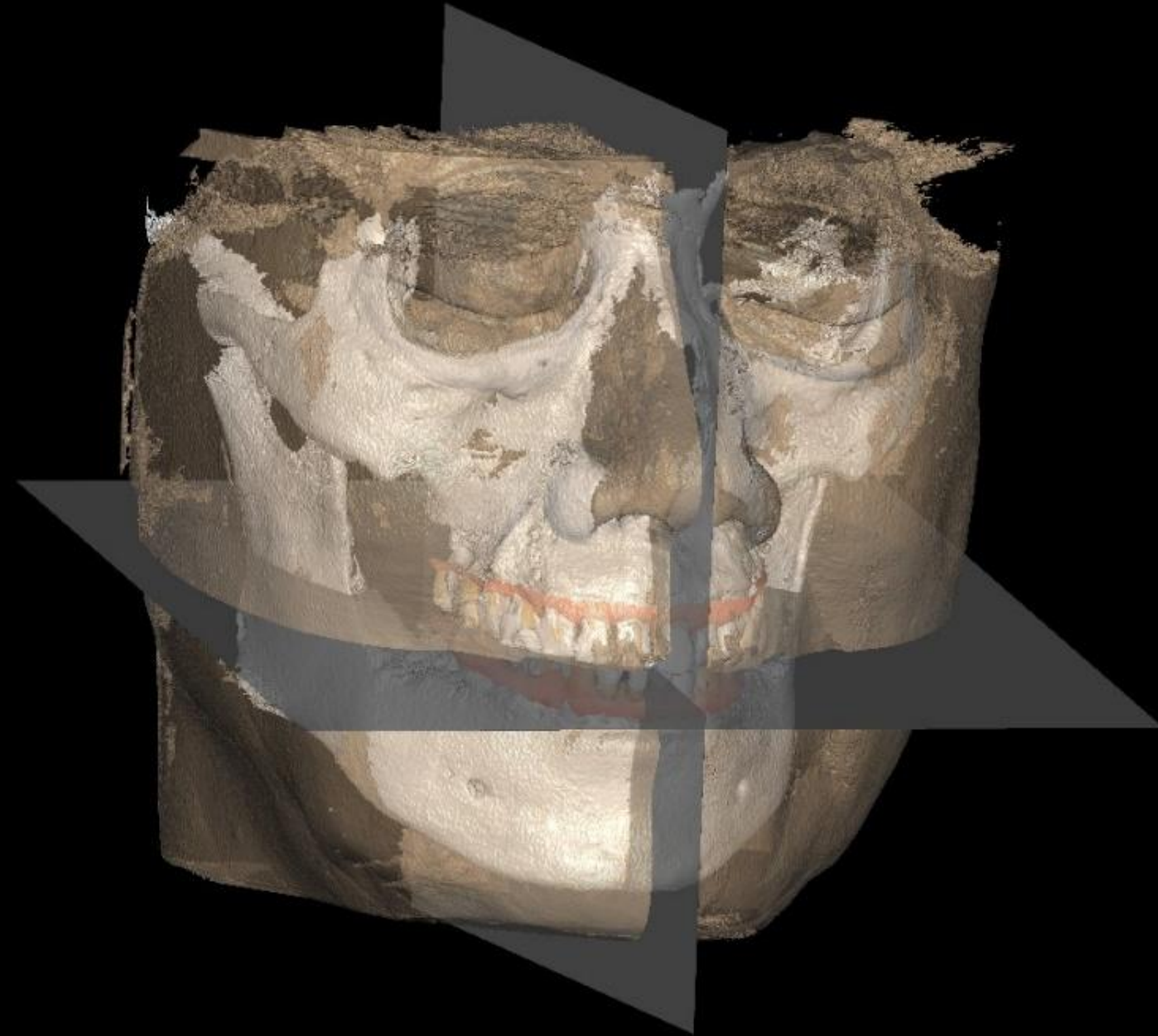


Shining 3d aoral3 wireless

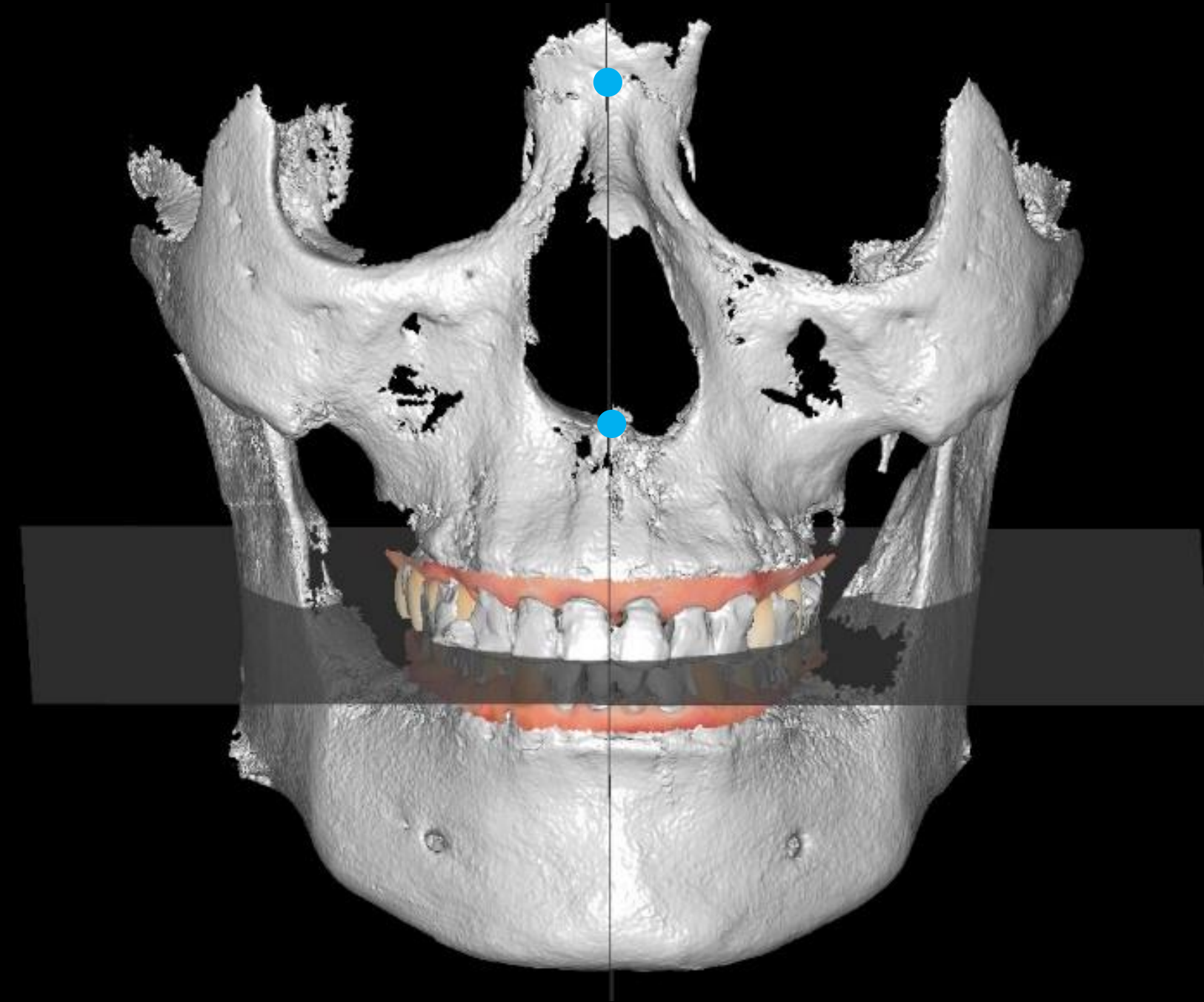


Shining 3d Elite Scanner

CT data Stitching

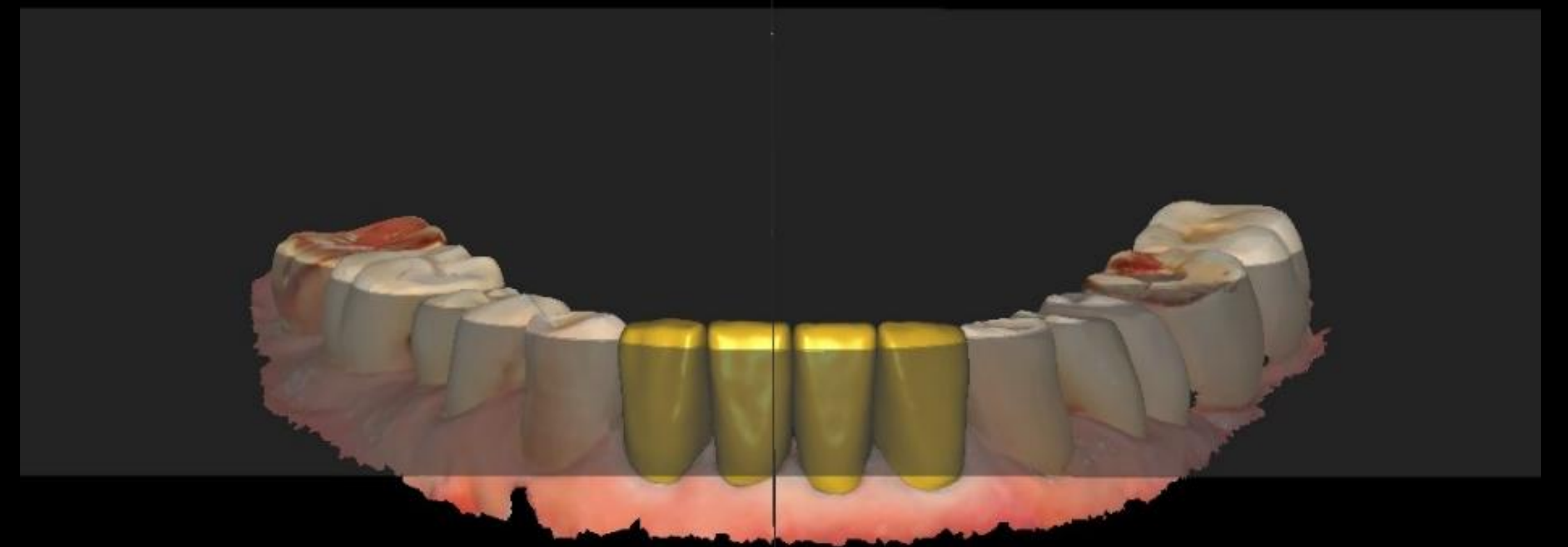
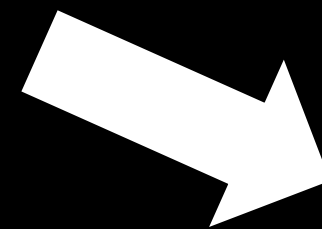
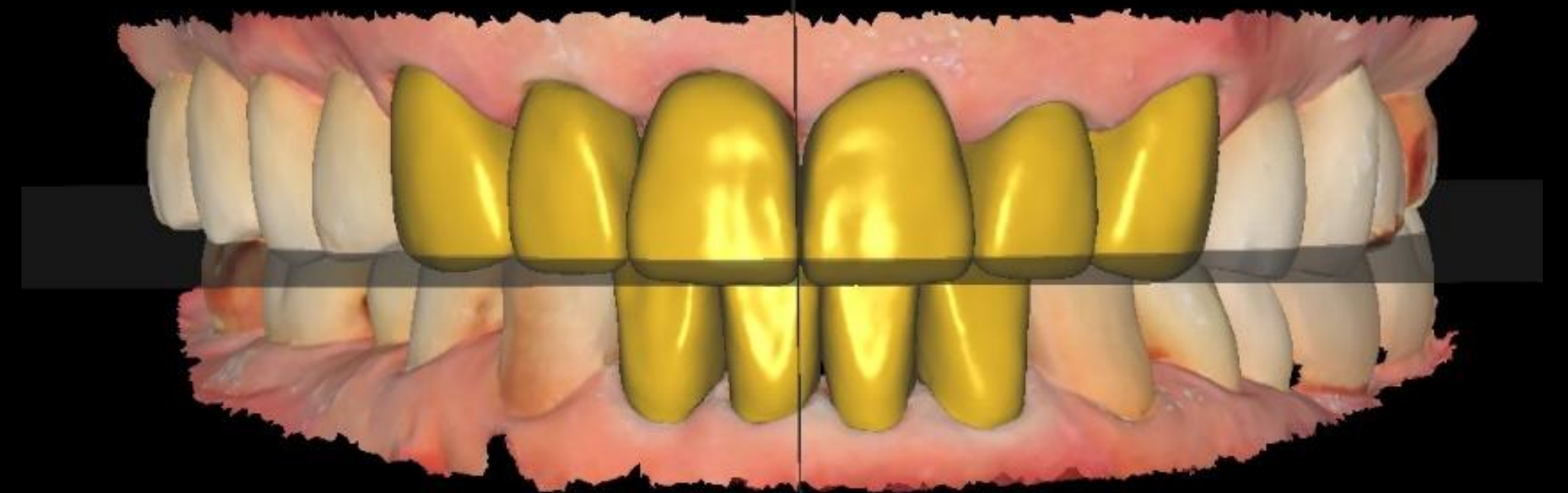
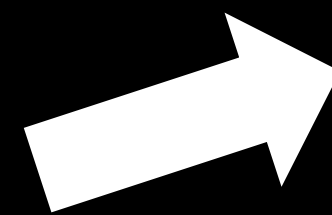


CT data + los data Stitching

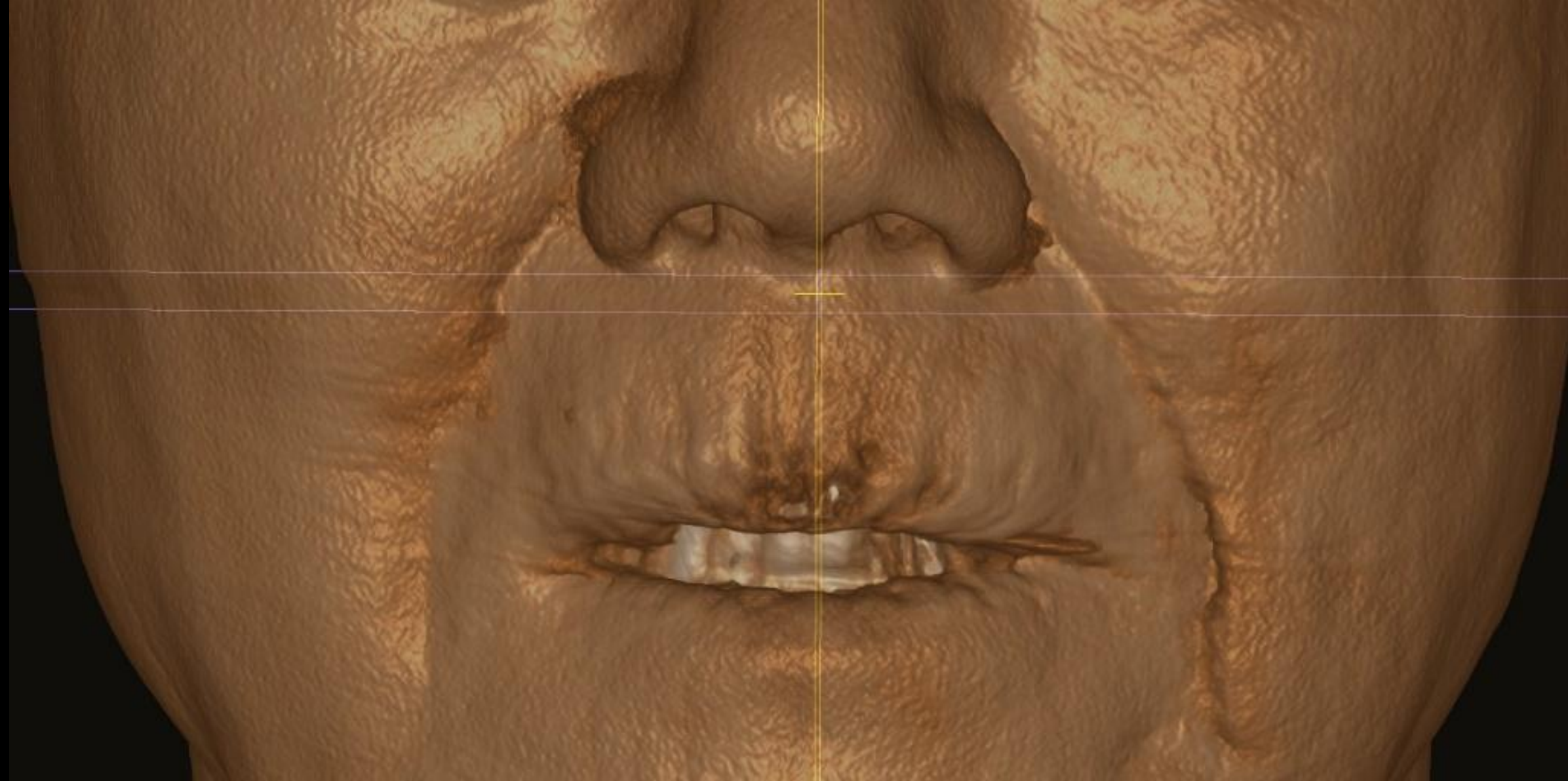


Rasion – Ans to Pns Midline

AI Occlusal Plane



Cad Design



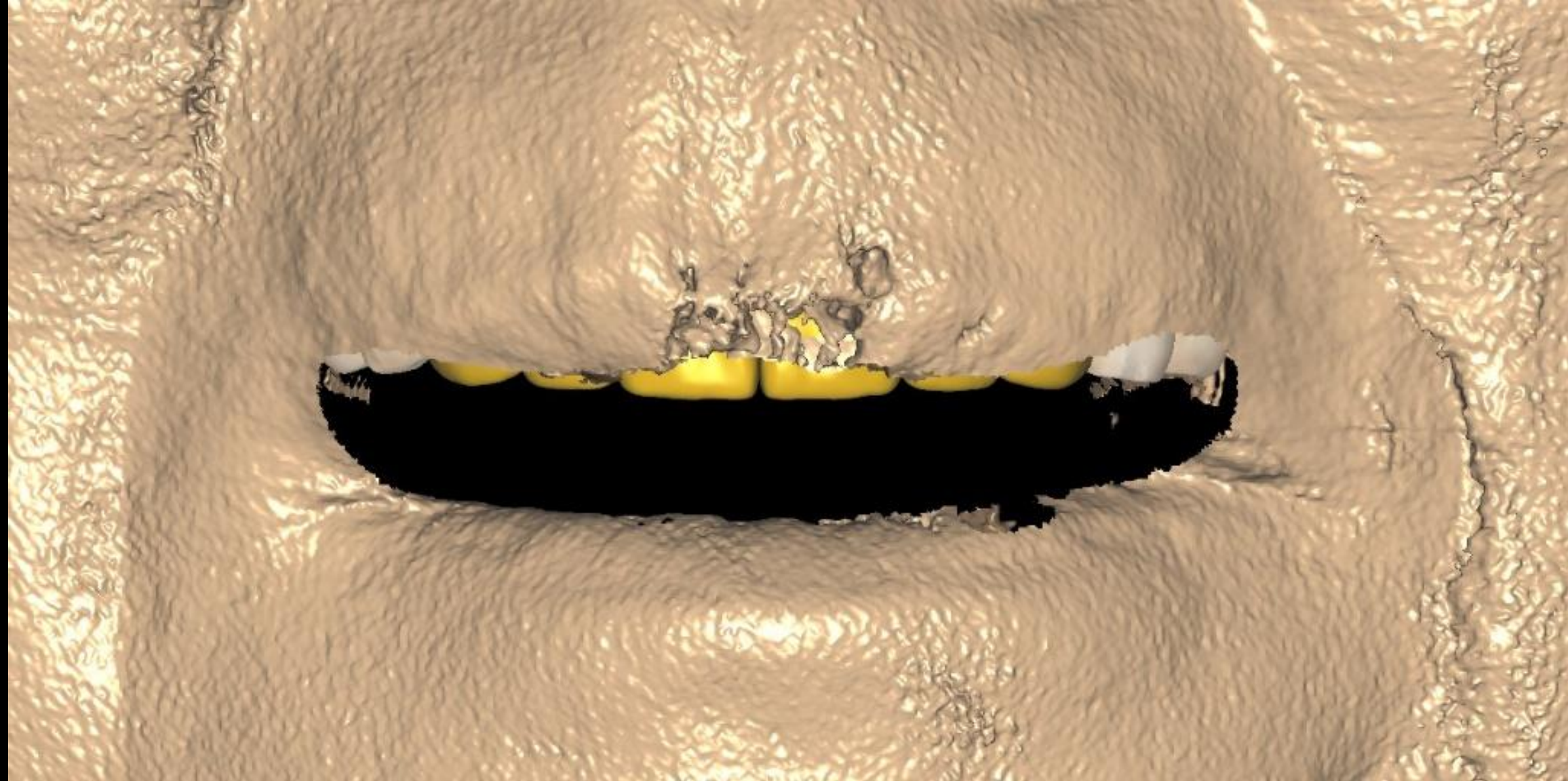
CT data Soft Tissue

Cad Design



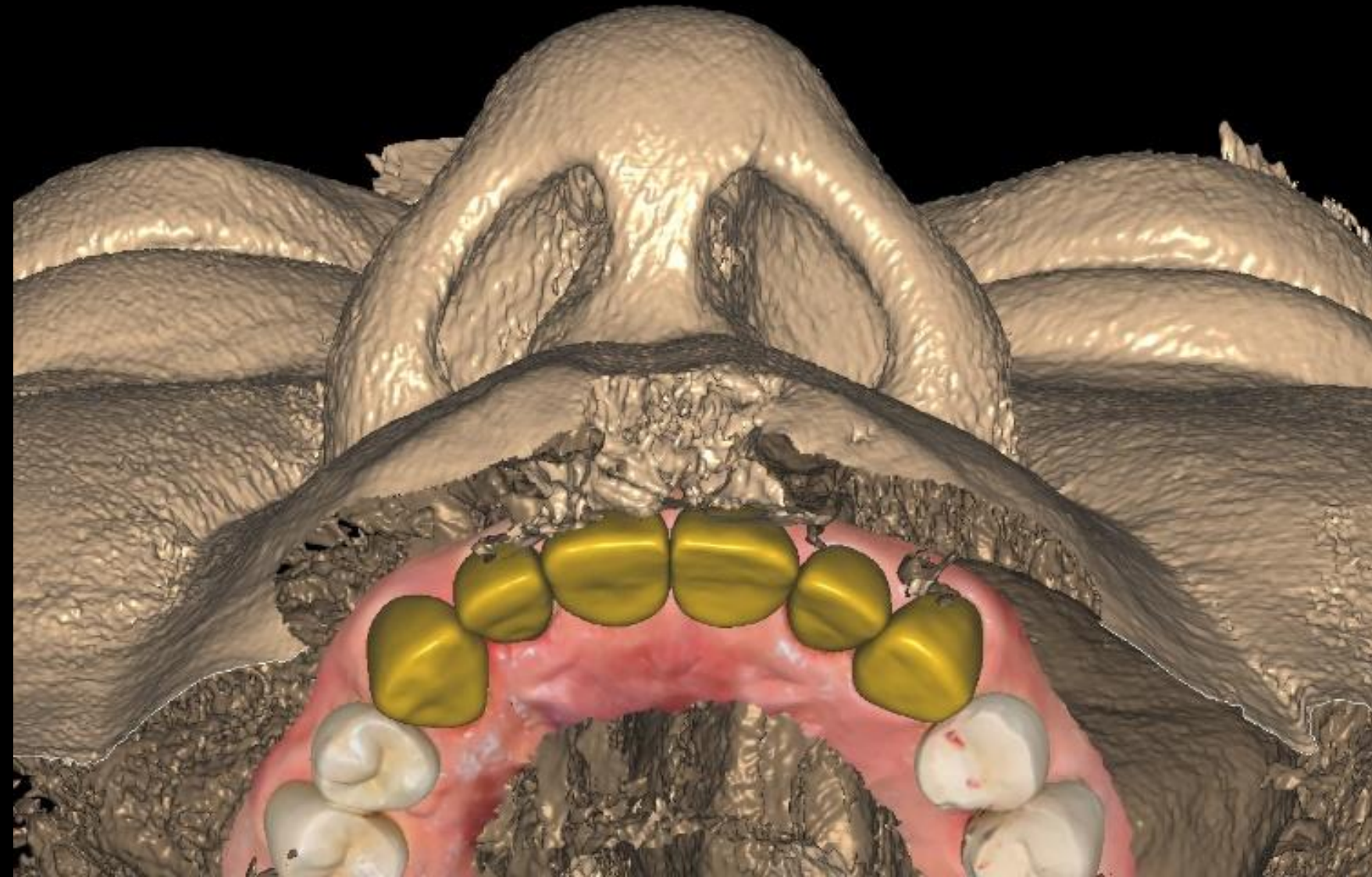
CT data Soft Tissue

Cad Design



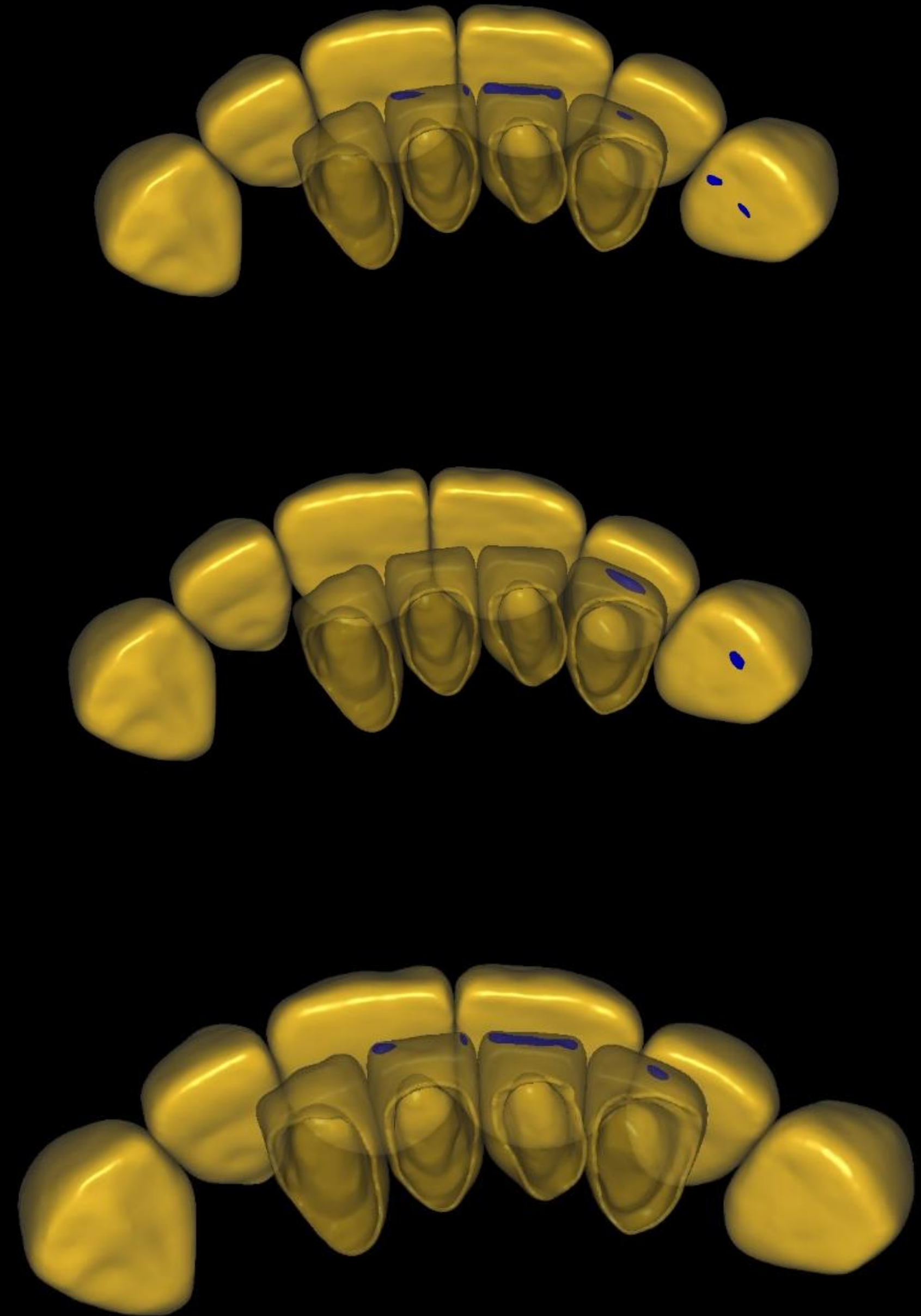
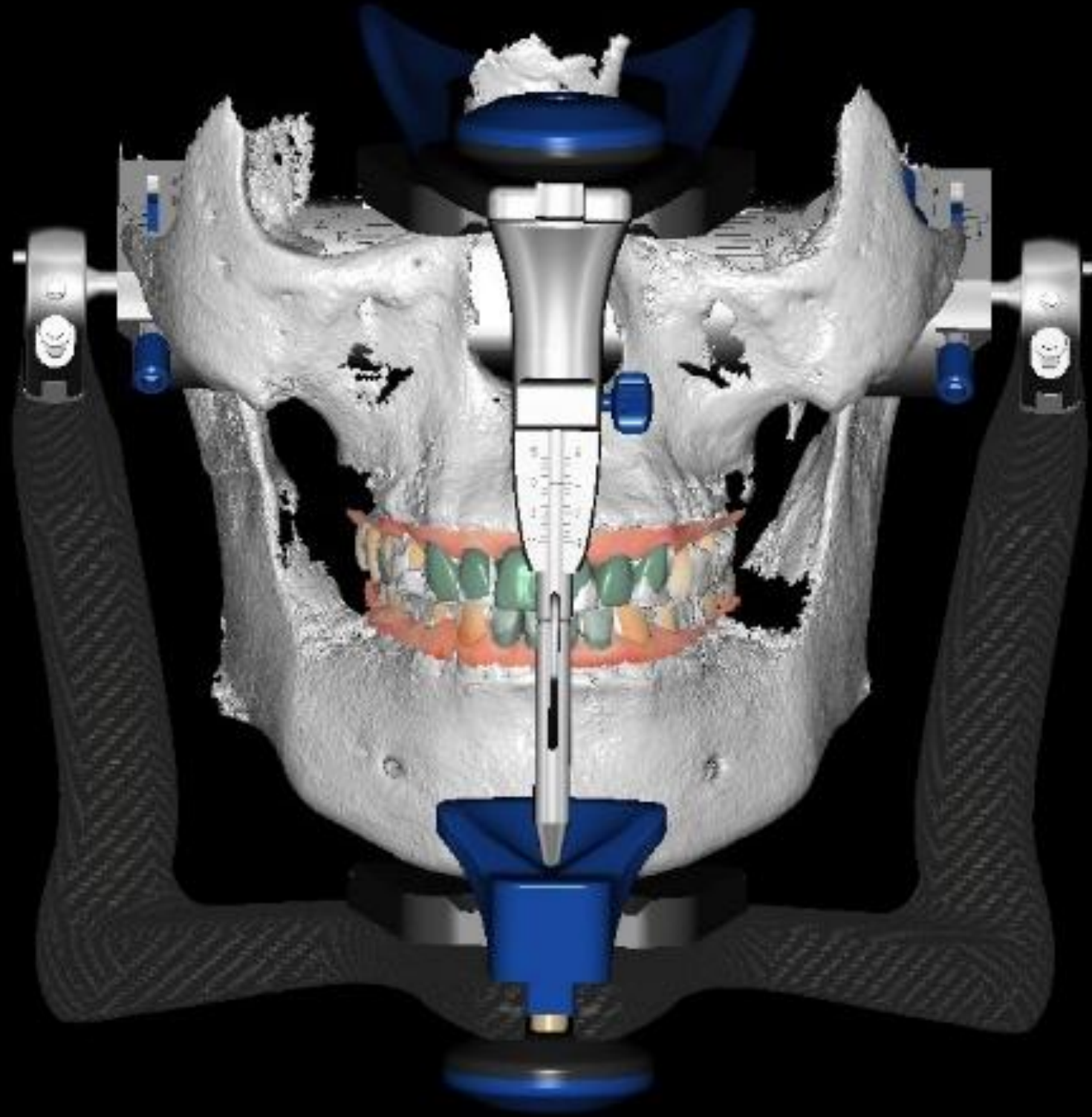
CT data Soft Tissue

Cad Design



CT data Soft Tissue

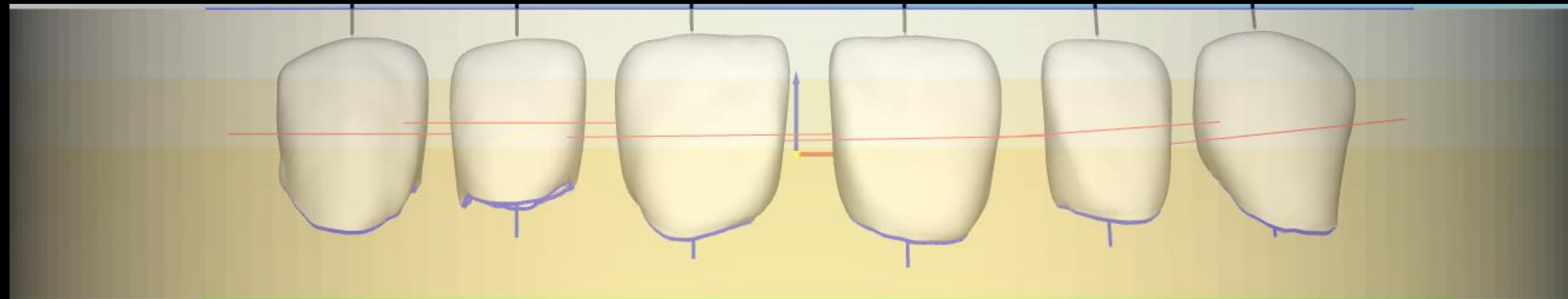
Virtual Articulator



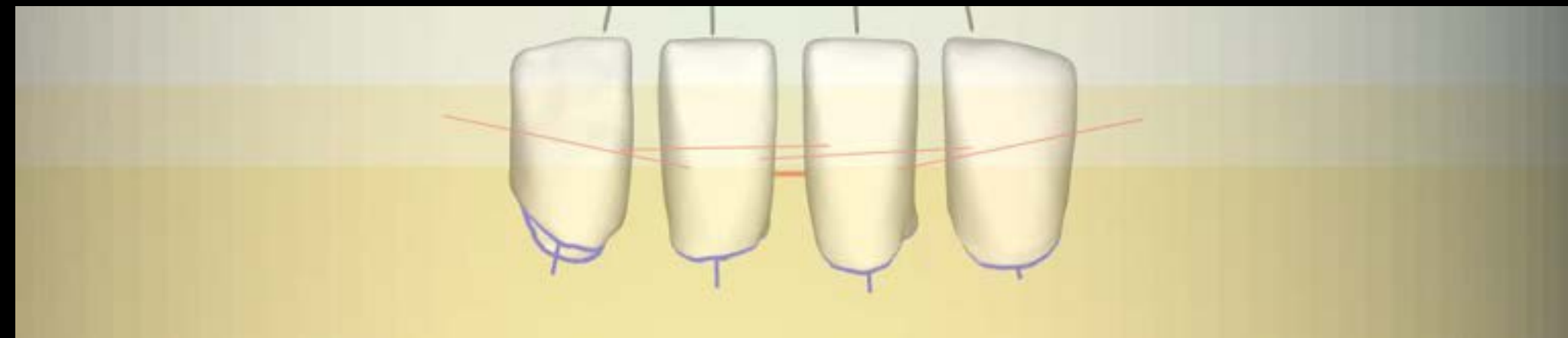
Shade Taking



Hyper Dent



3layer A3 block



3layer A3.5 block



**Maxillary A3 Block with
Body Layer Color Adjustment**



Milling



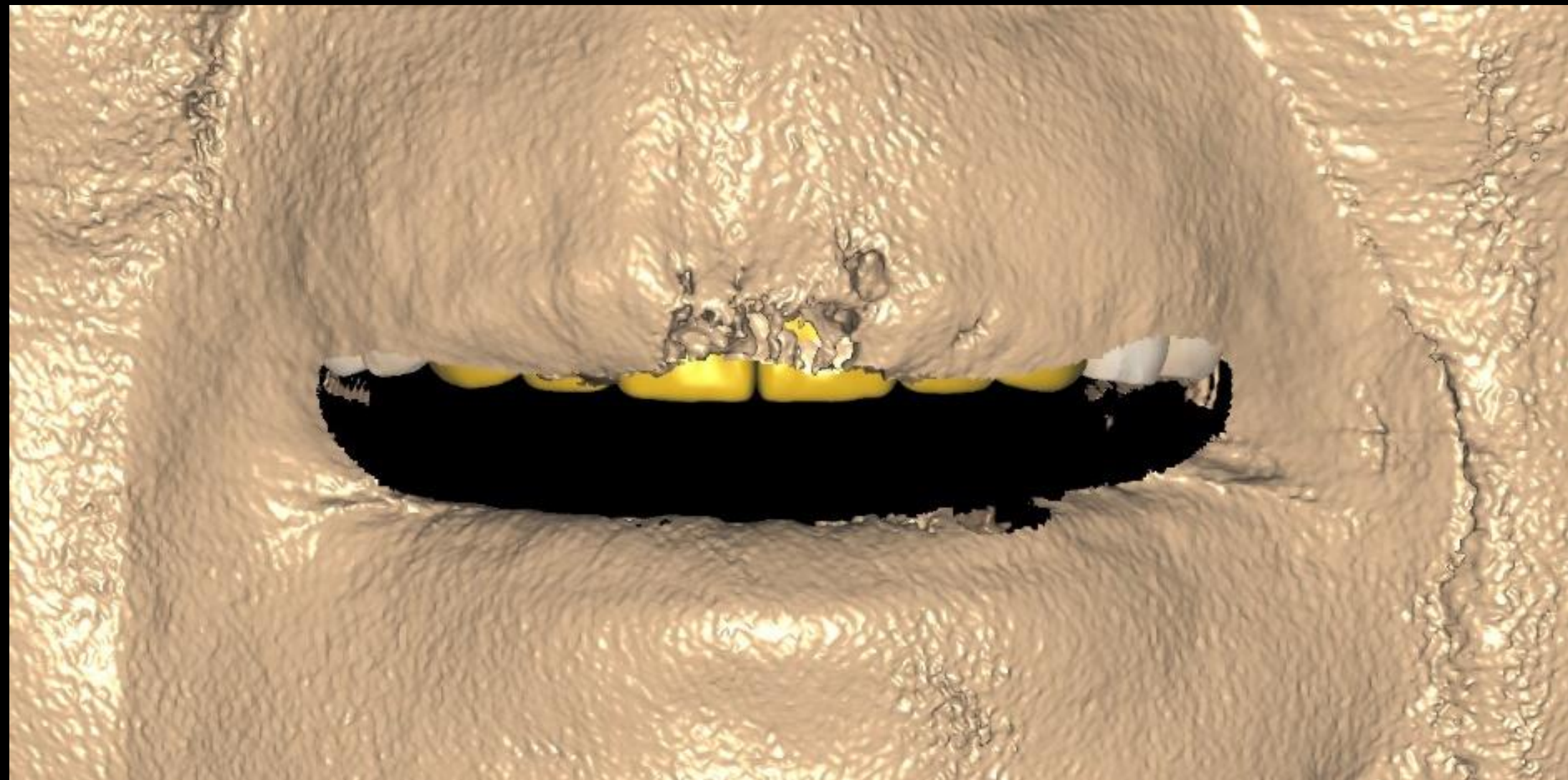
Glazing



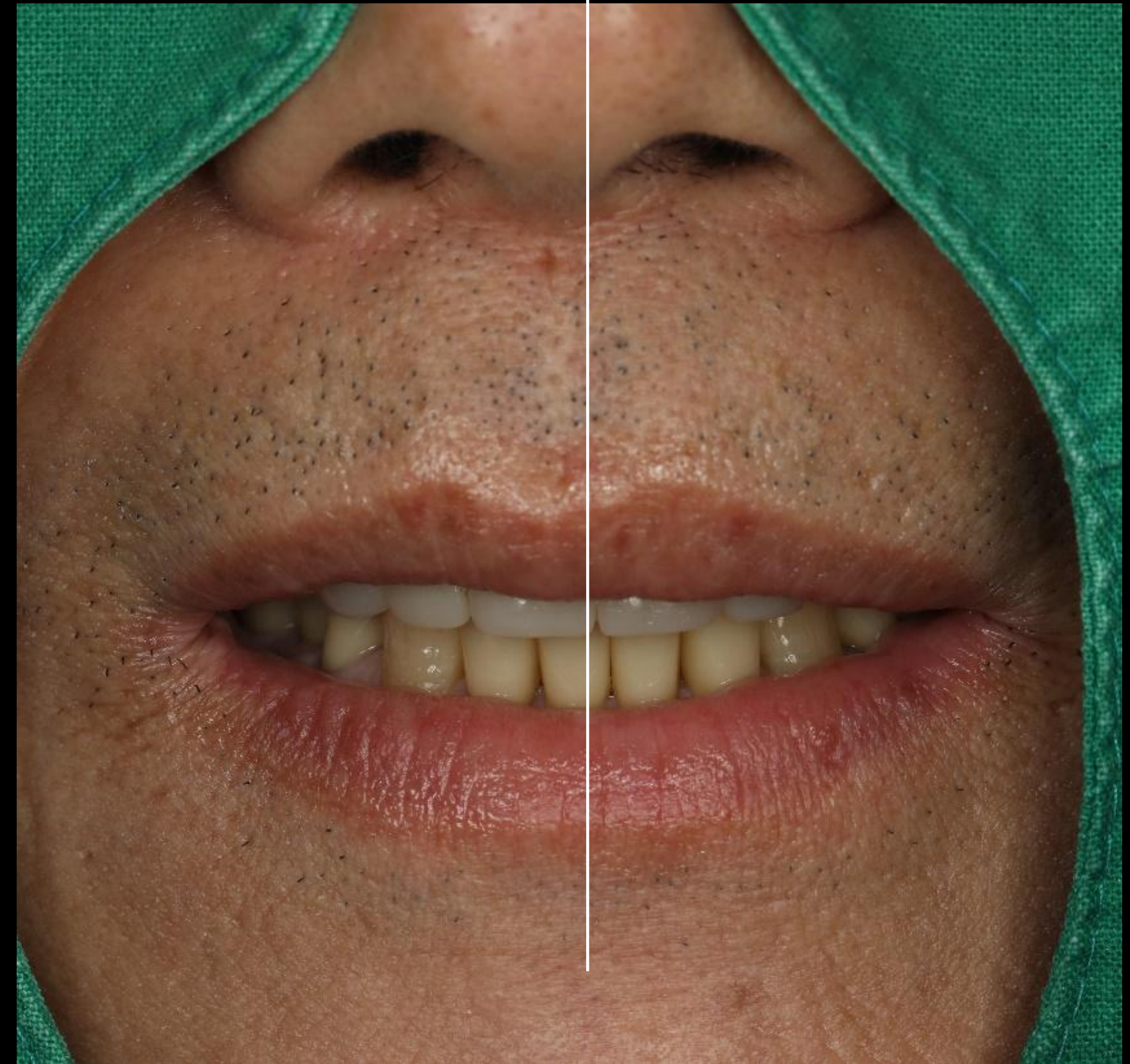
Final Prosthesis



Final Prosthesis



CT data Soft Tissue



**** Utilization of CT Data Instead of Face Scanner
for Anterior Maxillary and Mandibular Aesthetic Restorations**

**** Improvement of Natural Tooth Scan Data from Shining 3D Elite Scanner
and Application in Curved Section Cases with Abutments**

Final Prosthesis



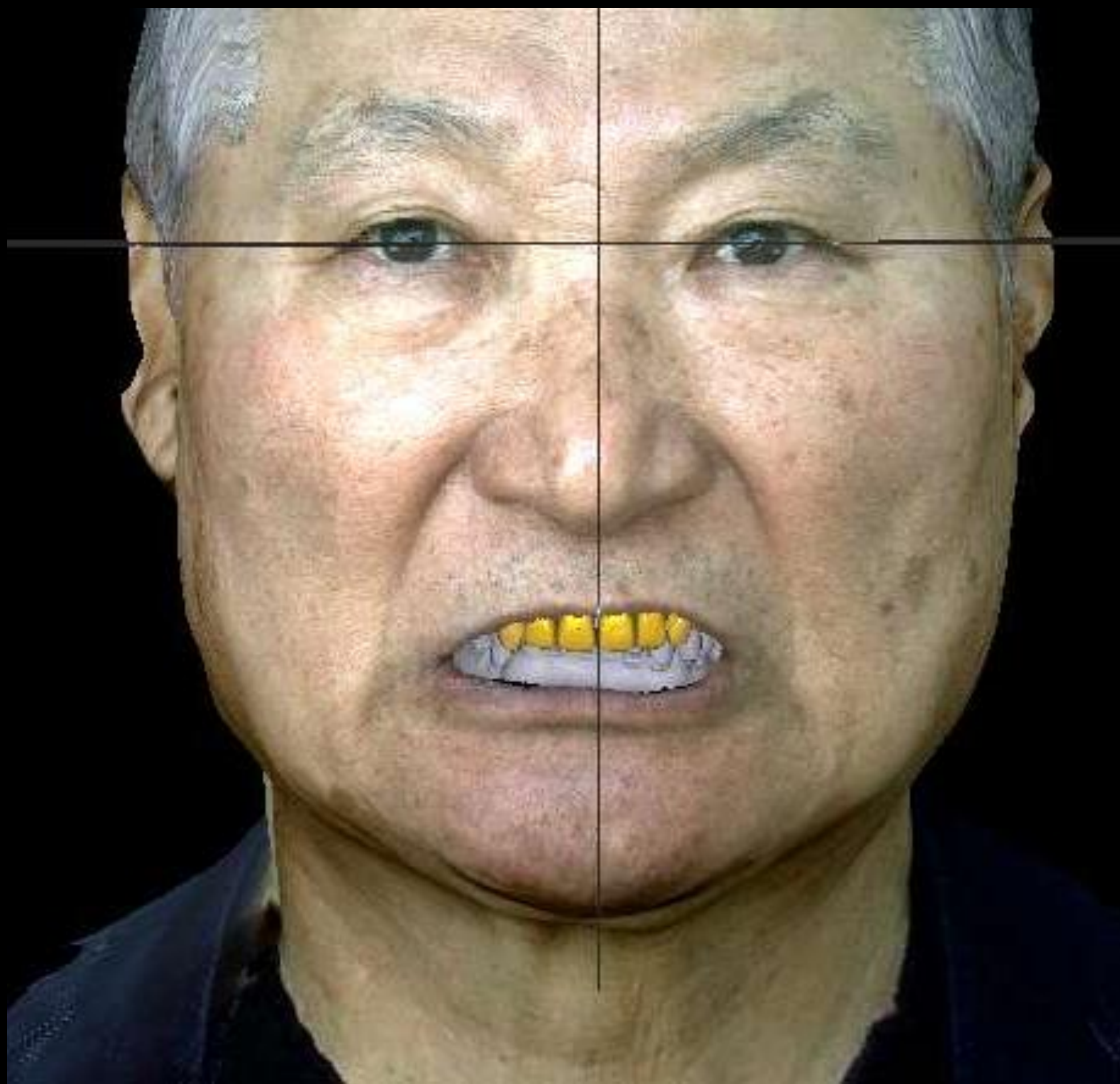
Pre op



Provisional crown



Final prosthesis



Evaluation of Facial Scanning Technology in Dentistry



Digital Camera



RayFace



Shining 3D Meti-Smile



bright CT

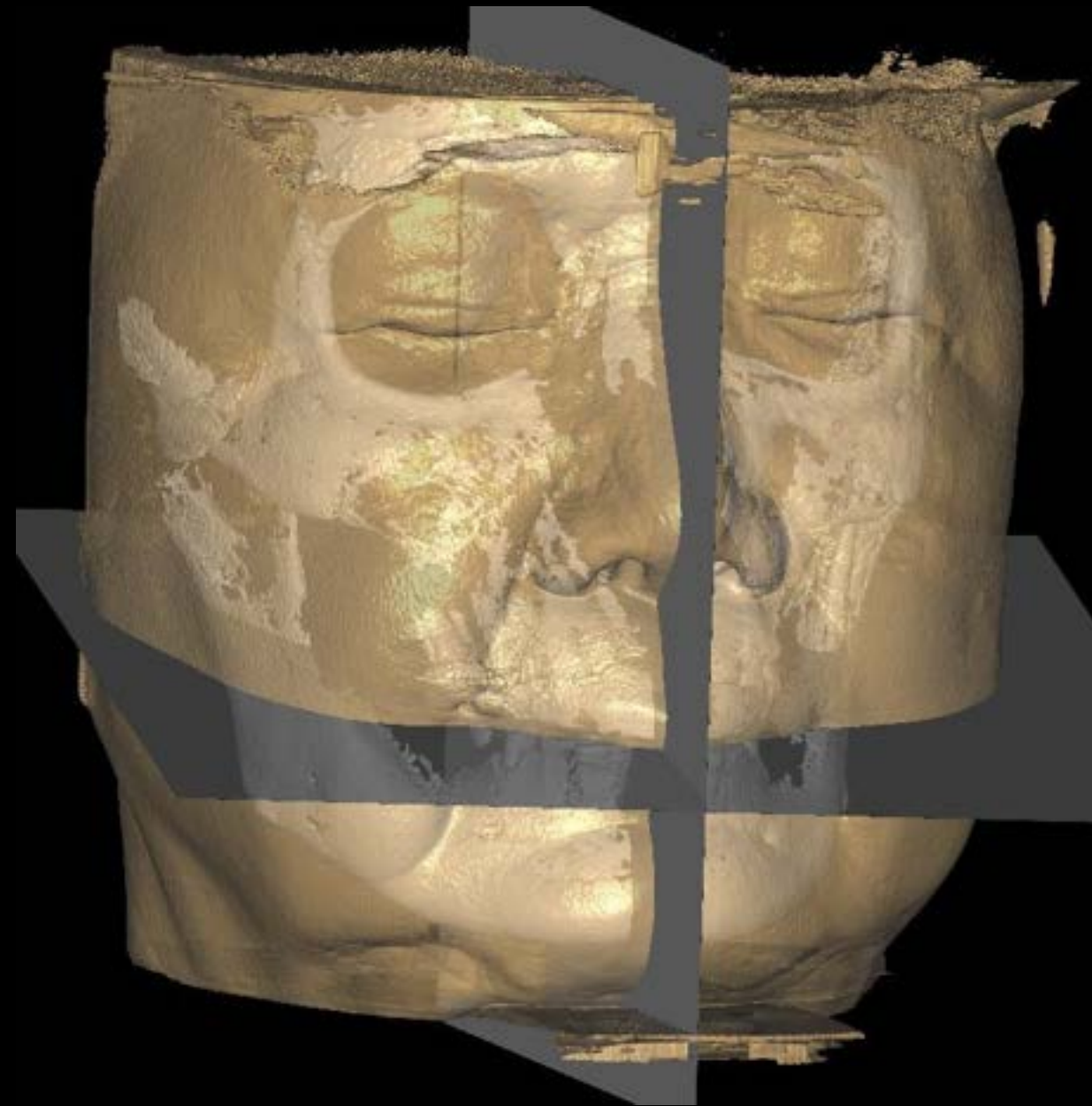


Cellular Phone



Mobile application

diagnosis & Virtual set up Data for Consulting



Face Scanner comparative & evaluation

Products	Revopoint POP3	CREALITY CR-Scan Ferret SE	Shining3D Metismile
Product image			
Location of HQ	Shenzhen, China (2023Y 6M release)	Shenzhen, China (2025Y 3M release)	Beijing, China (2023Y 3M release)
Single capture range	125 x 225mm	560 x 820 mm	210 x 270 mm
Resolution	Accuracy: 0.1 mm	Accuracy: 0.1 mm	Accuracy: 0.05 mm
Working range	150 - 400 mm	150 ~ 700 mm	500 mm
Size	153 x 45 x 29 mm	120 x 30 x 26 mm	215 x 50 x 75 mm
Weight	190 g	105 g	800 g
Price	\$ 659 (914,692¥)	\$ 349 (484,412¥)	\$ 4,999 (6,938,612¥)

Face Scanner comparative & evaluation

Revopoint
POP3



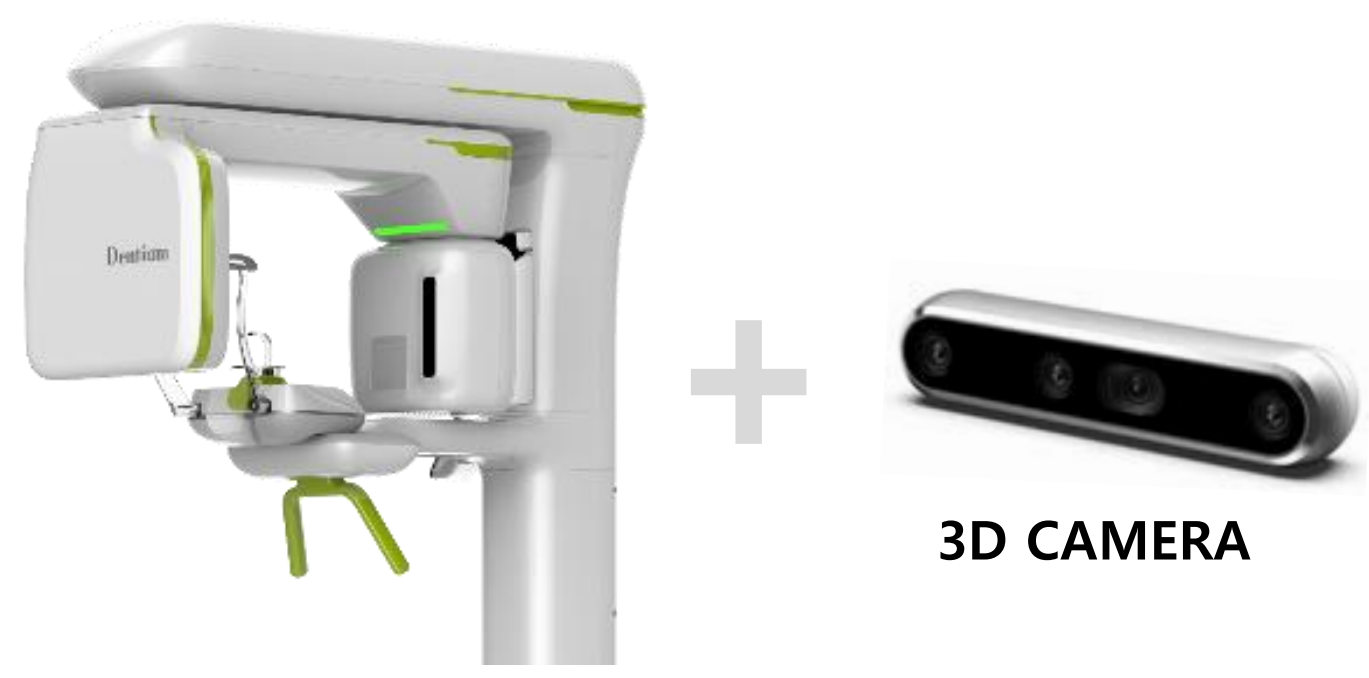
CREALITY
CR-Scan Ferret SE



Shining3D
Metismile



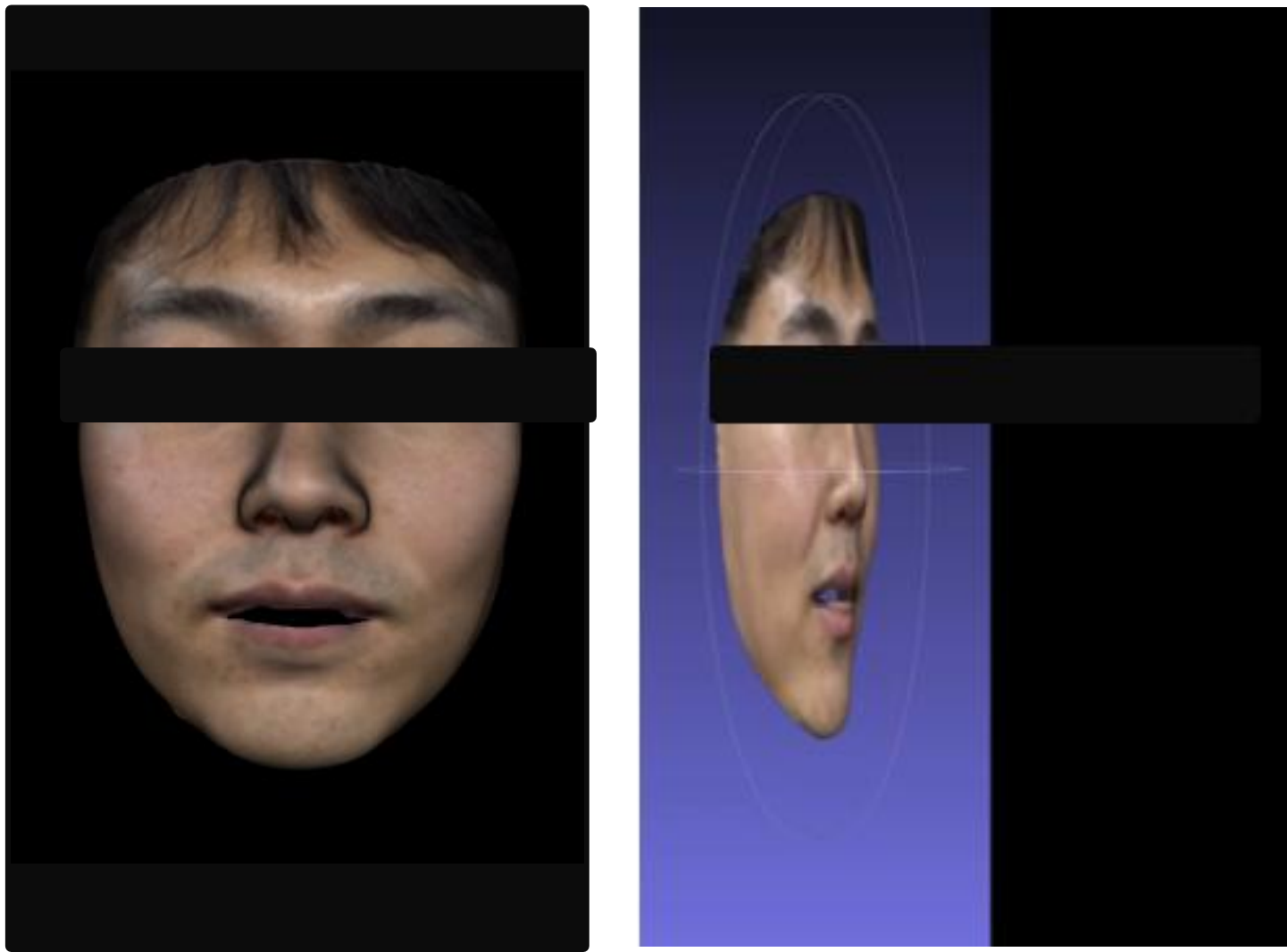
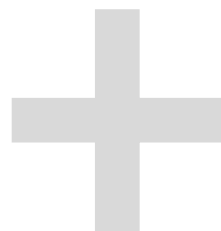
Plan to Integrate Facial Scan Function into bright CT



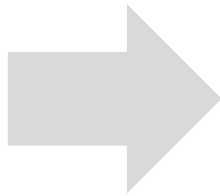
bright CT 4T (with Facial Scan)



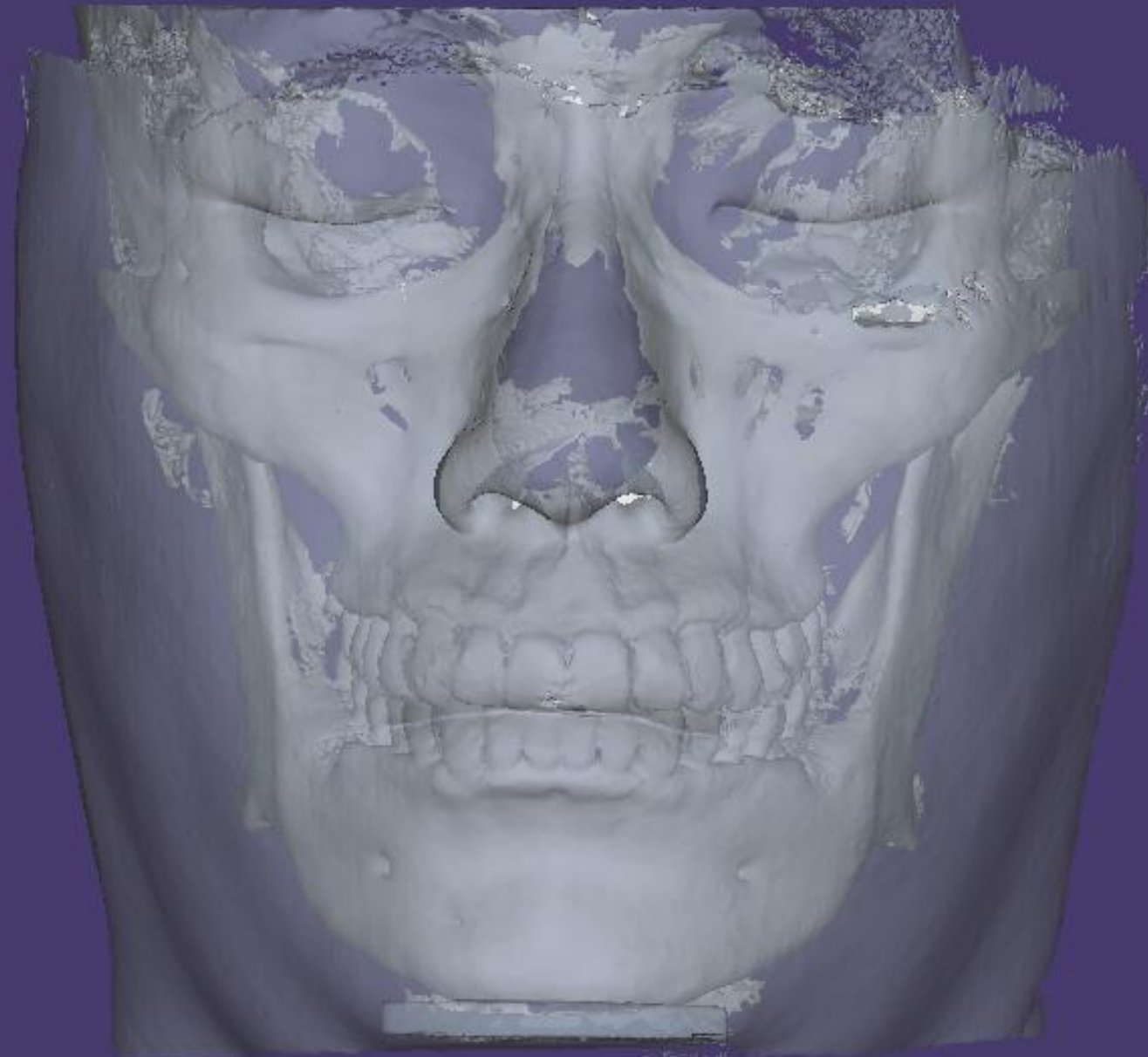
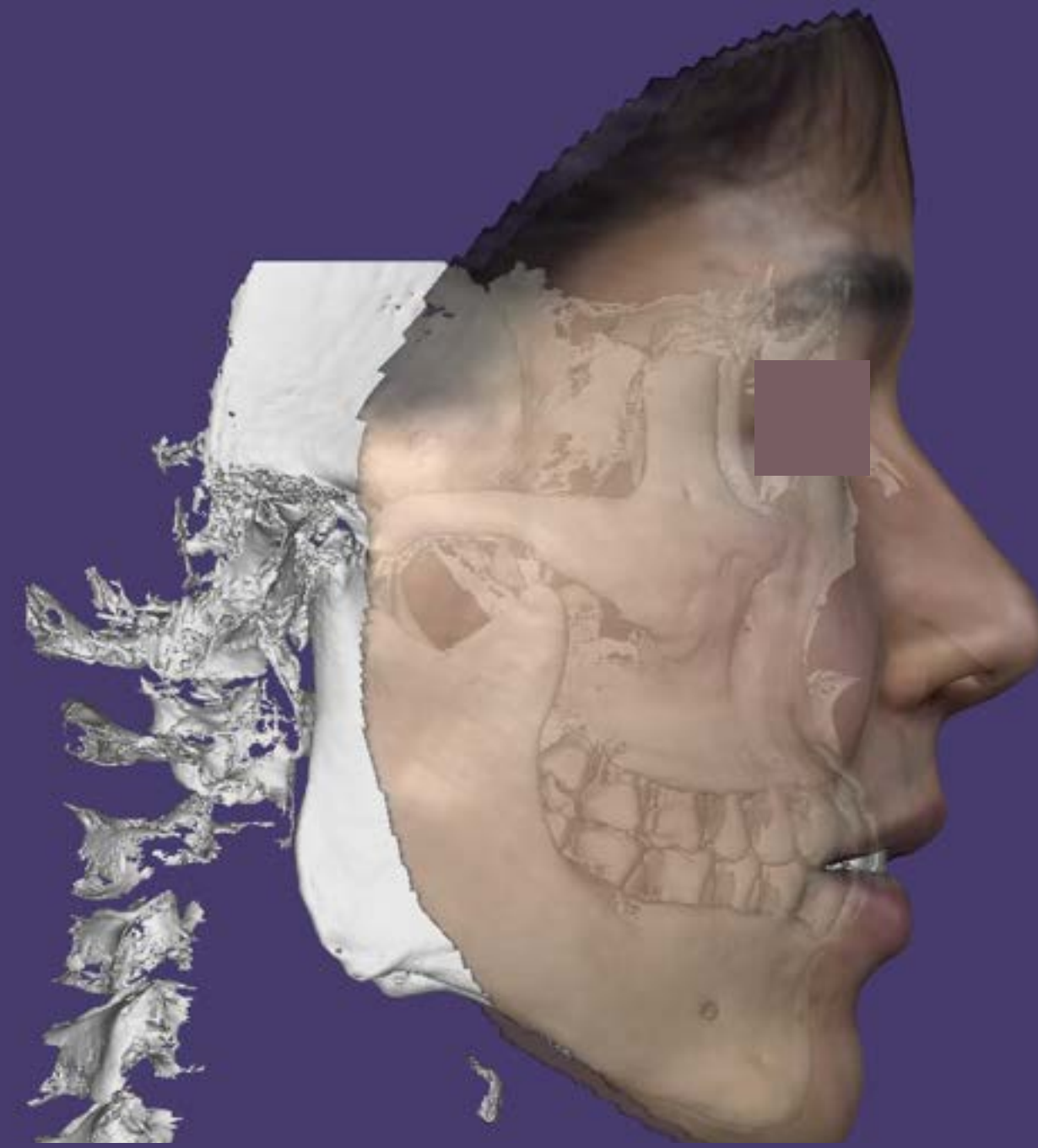
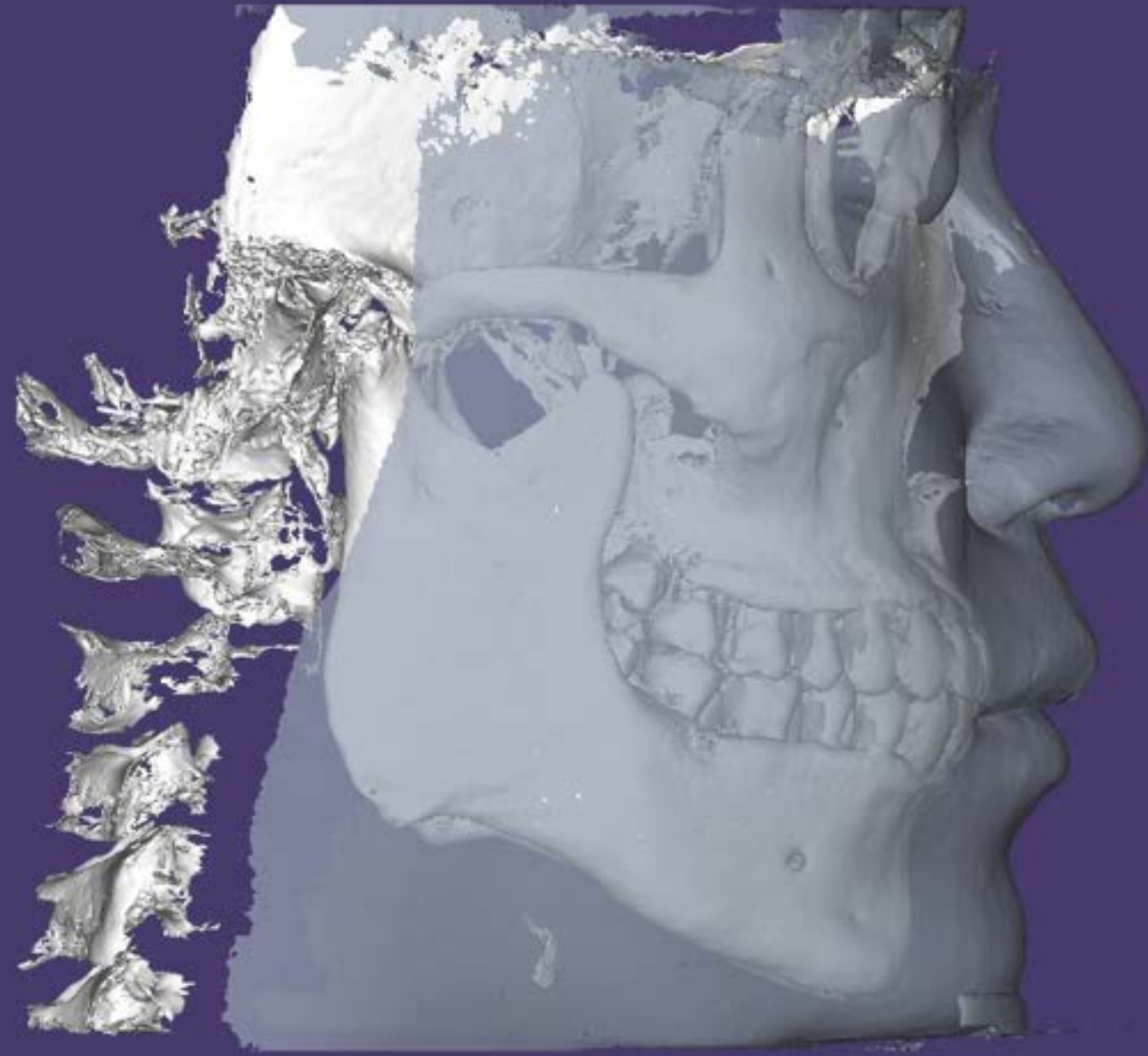
Large FOV CT Image
(20cm x 20cm)



3D Facial Scan



CT + Facial Scan stitching



Virtual Face Reconstruction

Digital Minimalism is precise, exactly, Minimal investment



Facial photo can be merged with CBCT and IOS

That are now under development

Dentium

Contents

Introduction

Tooth oriented

Facial driven

CT centered



Follow up : 11 months (2024-10-30)



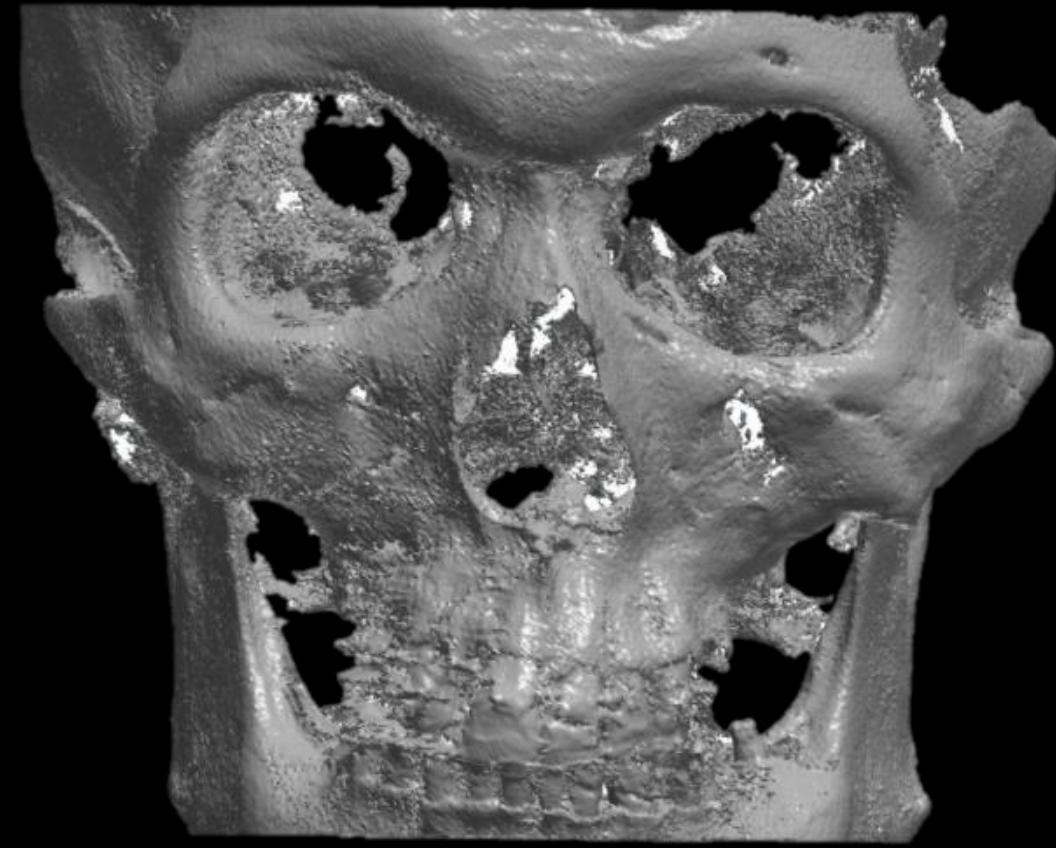
Scan data & Facial scan data stitching



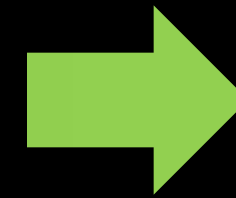
CT data stitching



&

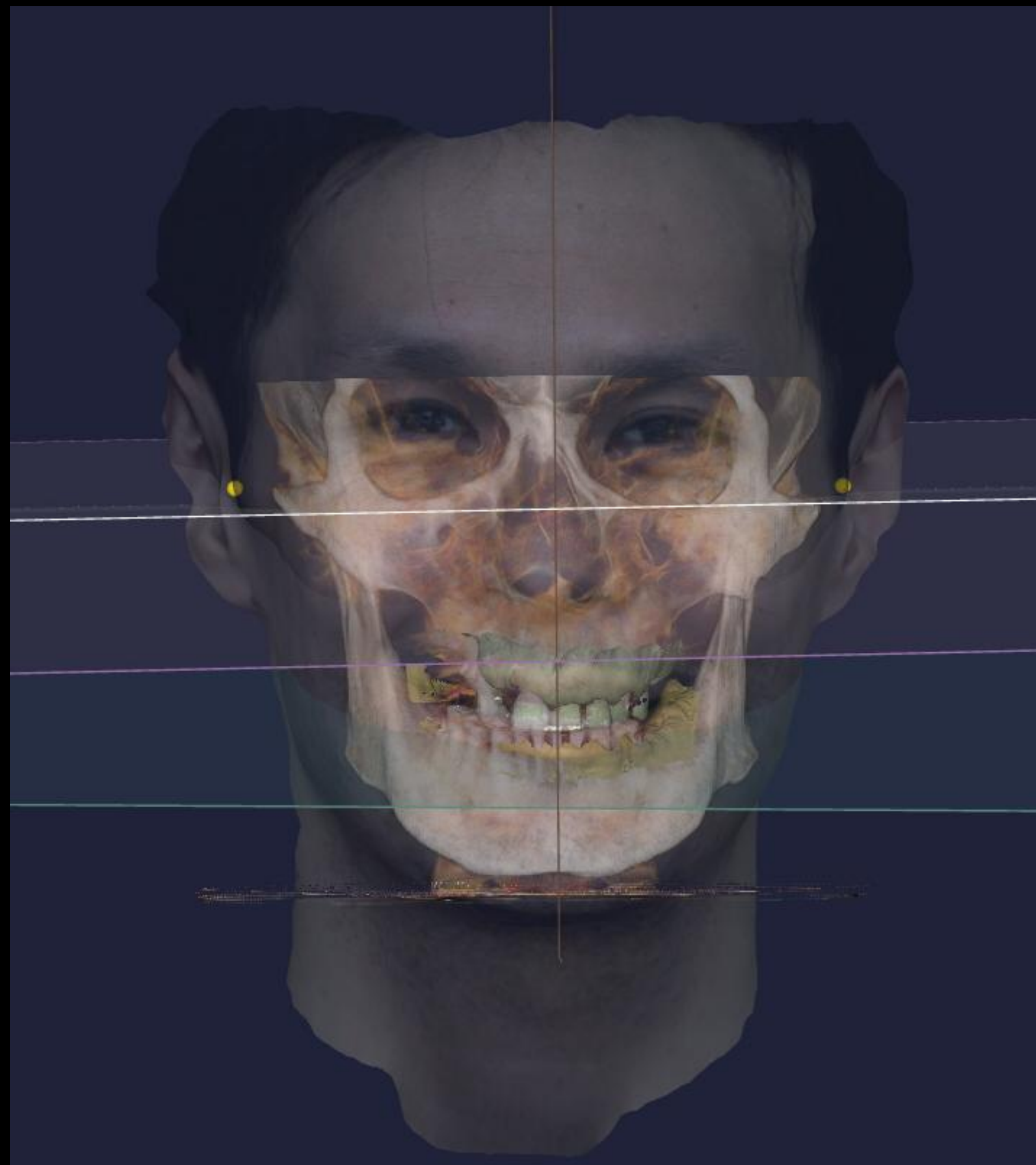


CT STL



Facial Scan + IOS + CT STL

Scan data & Facial scan data stitching data

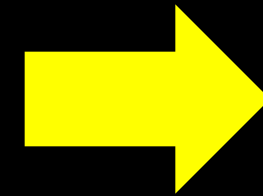


Facial Scan + Plane + IOS + CT

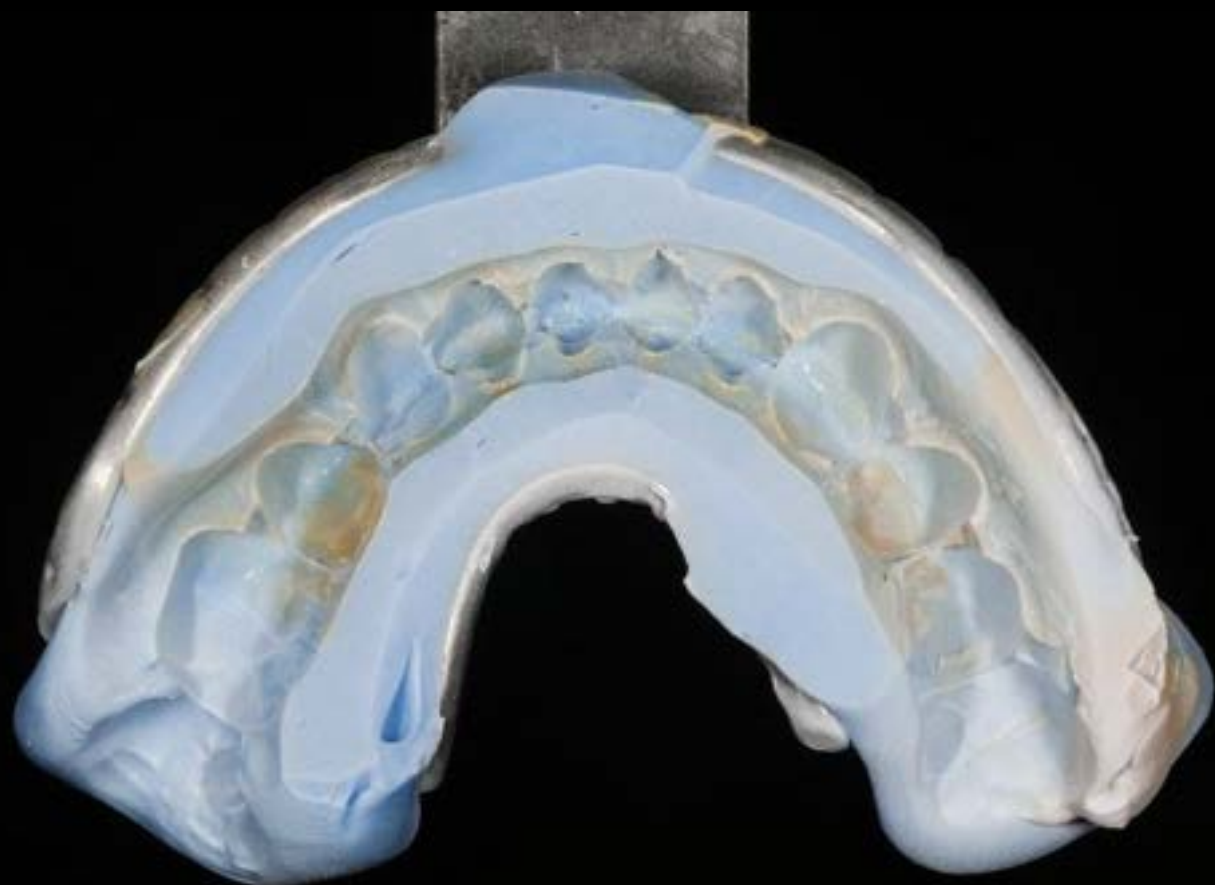
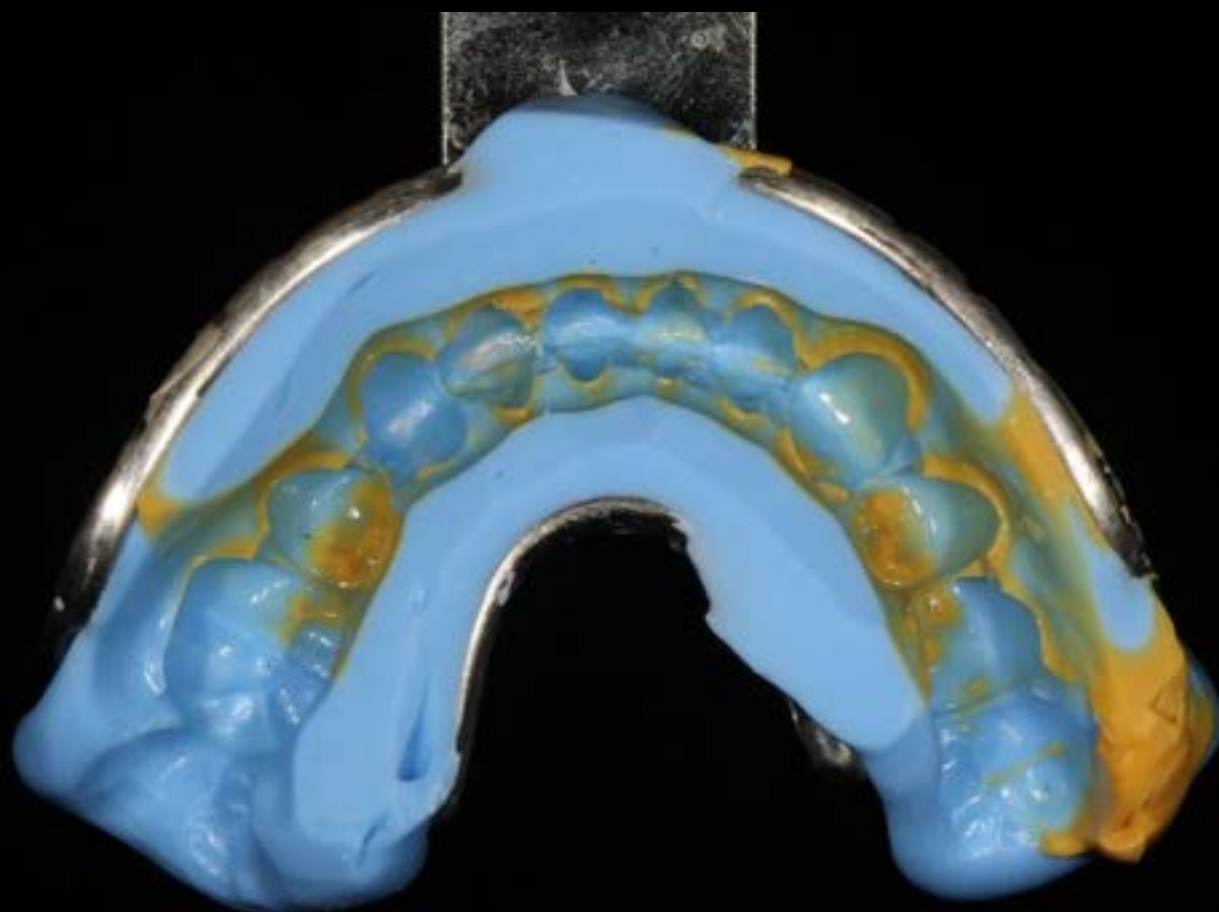
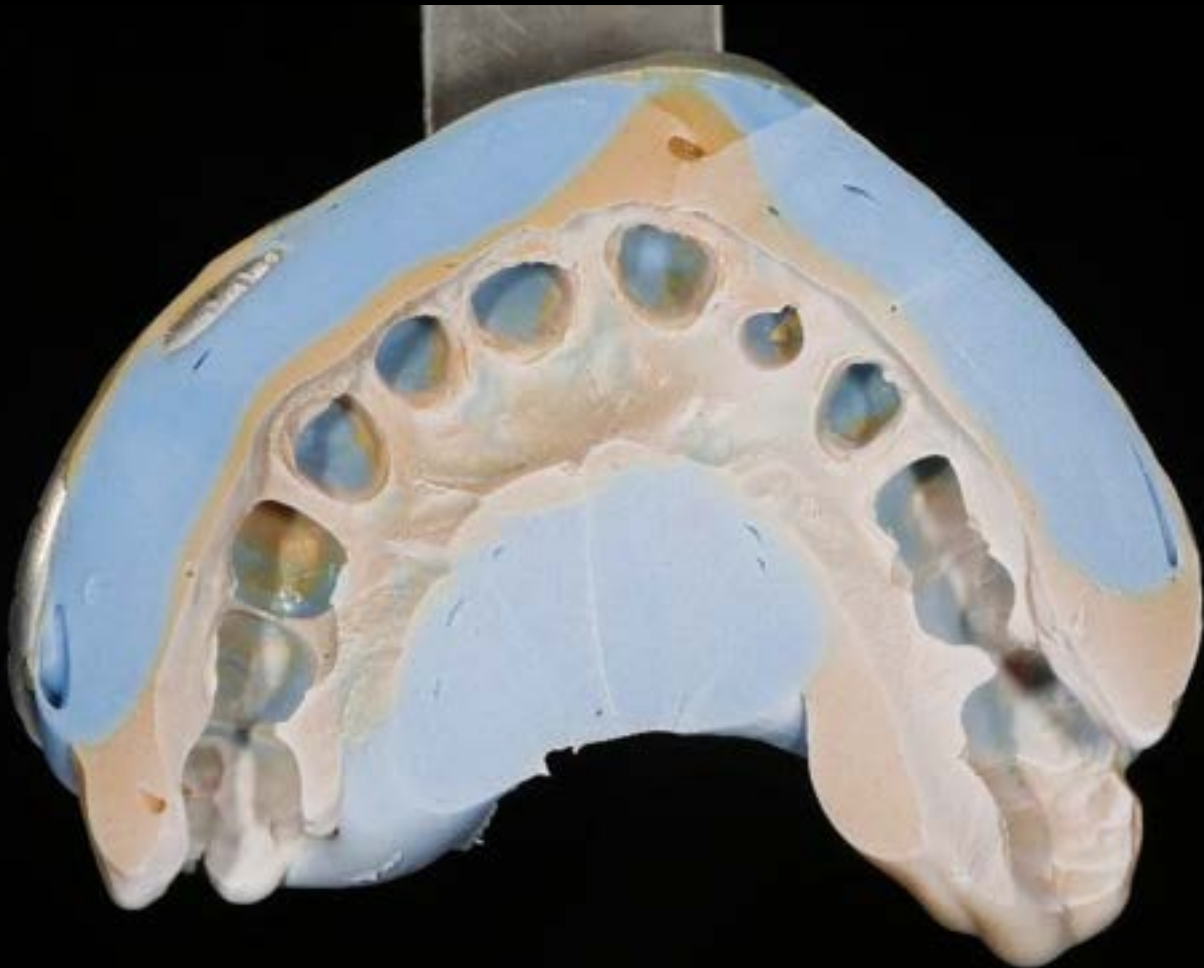
Intra-oral scan



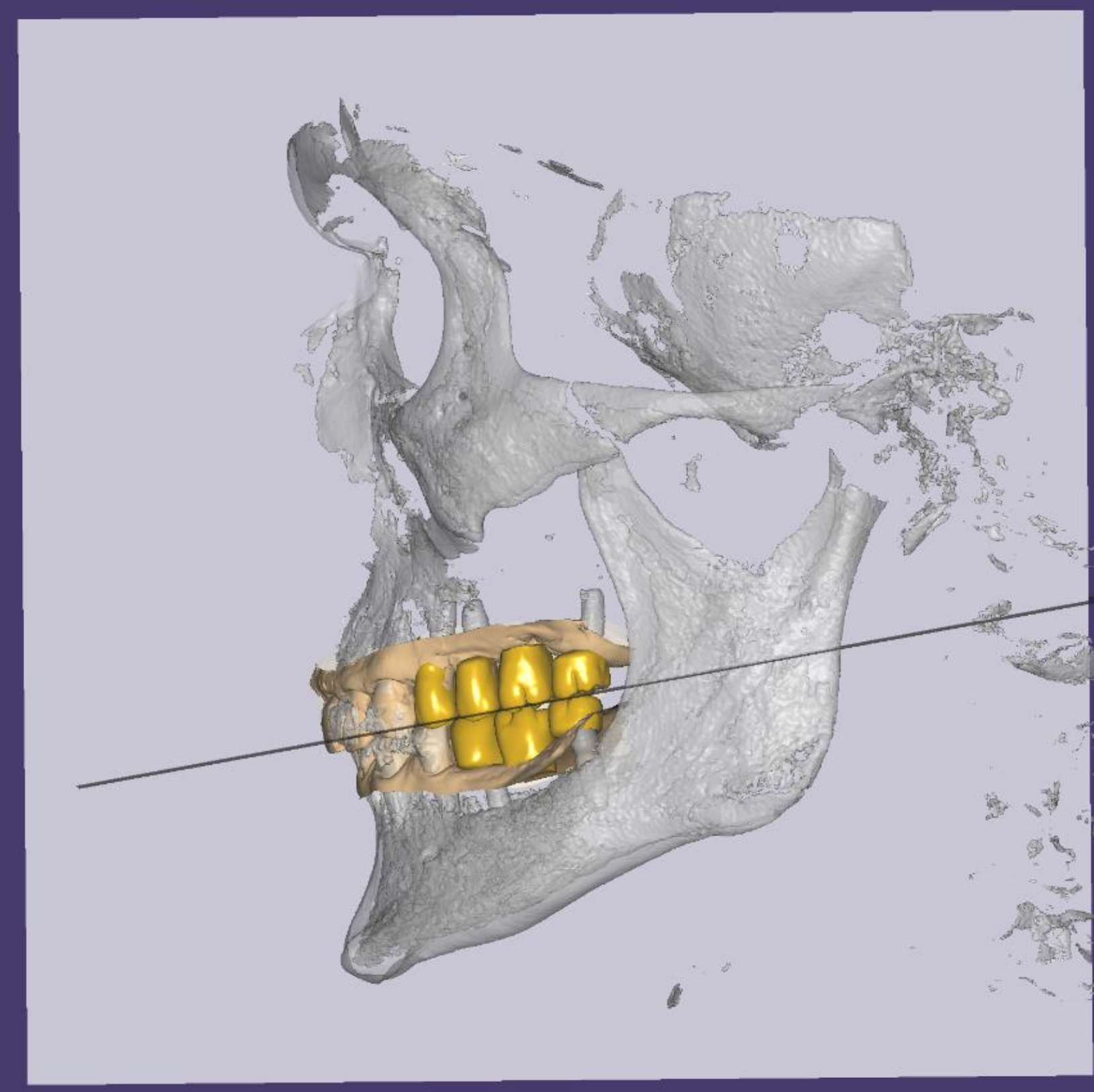
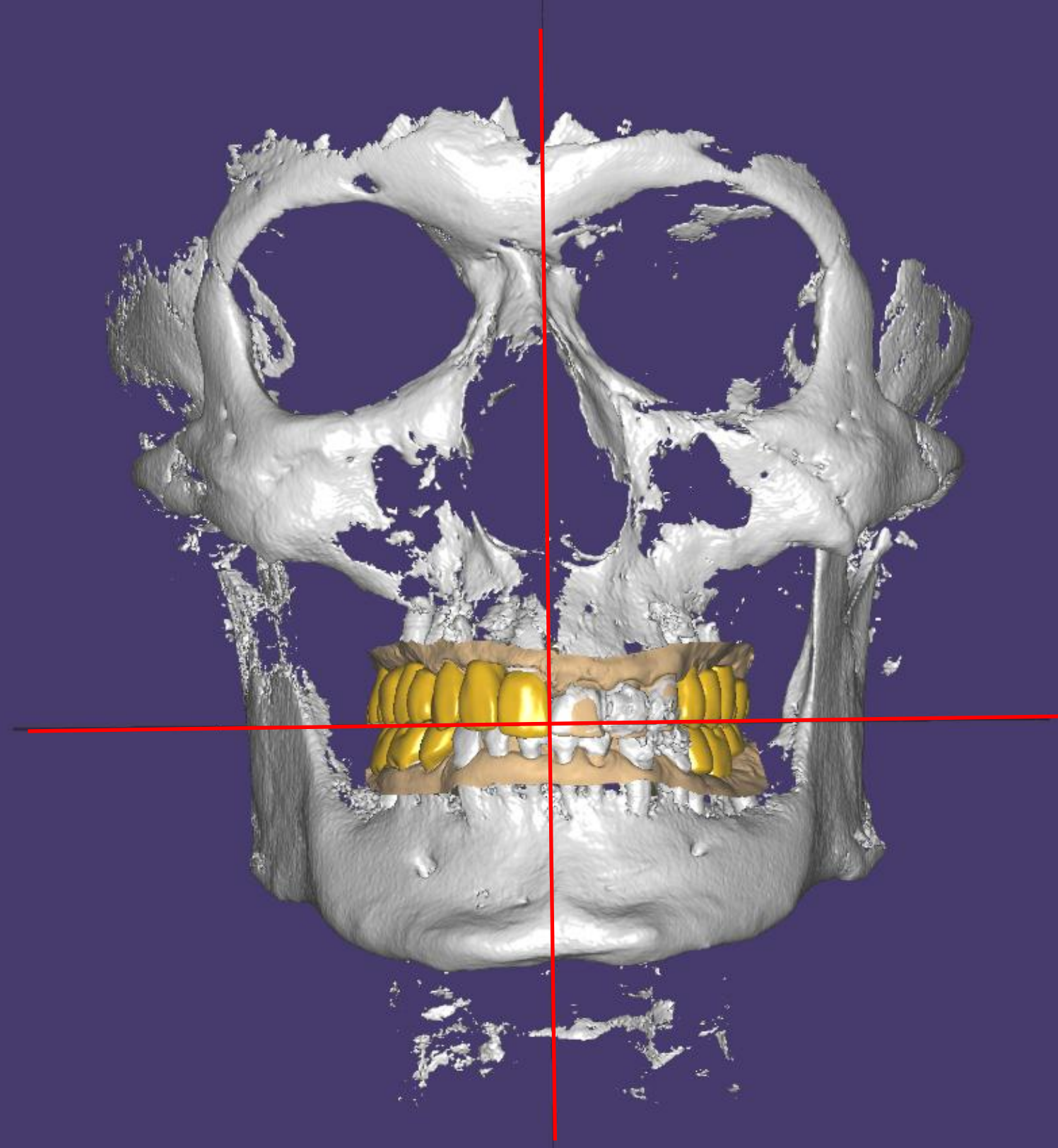
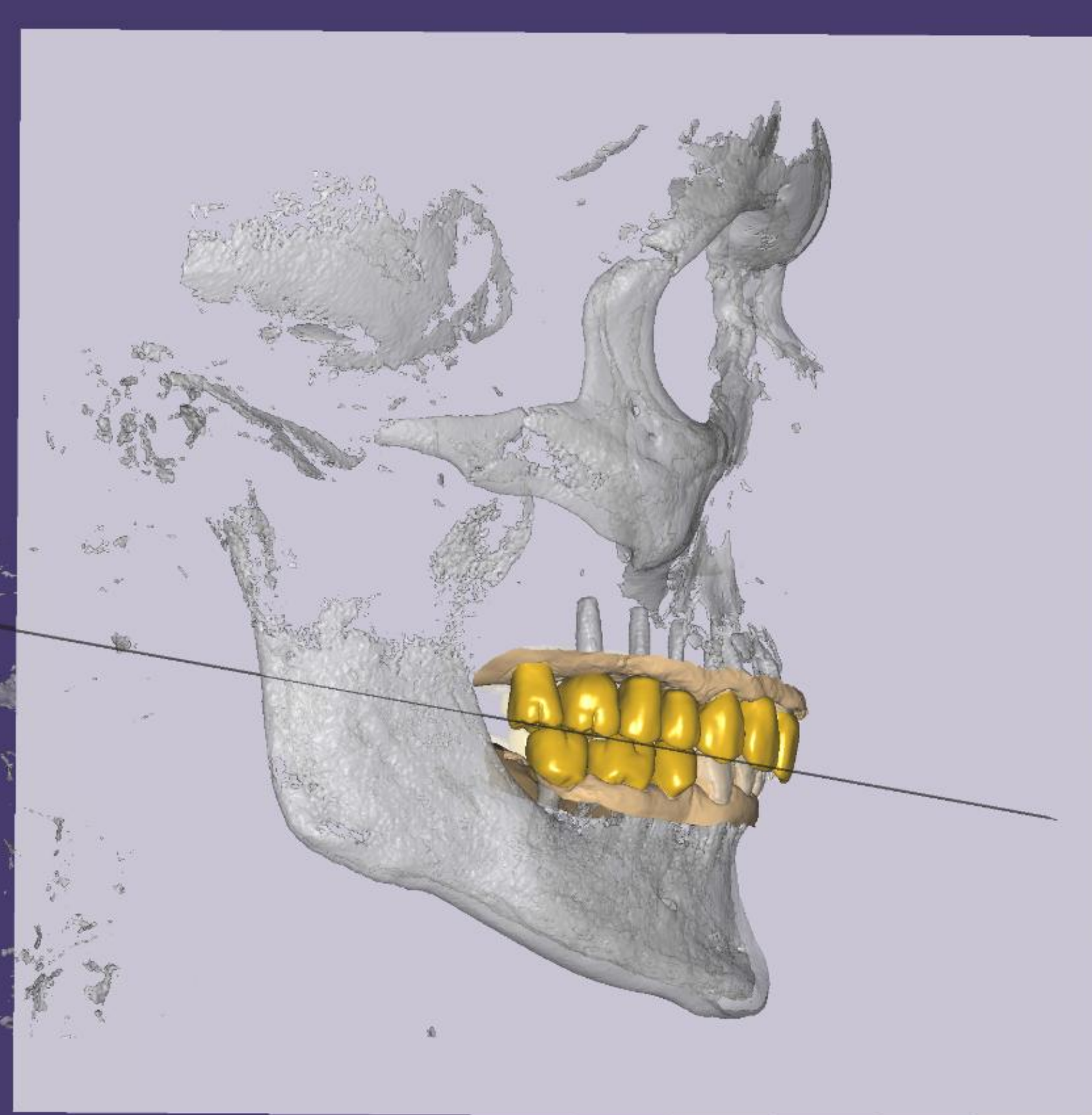
Virtual set up



Impression / Trimming / Scan spray



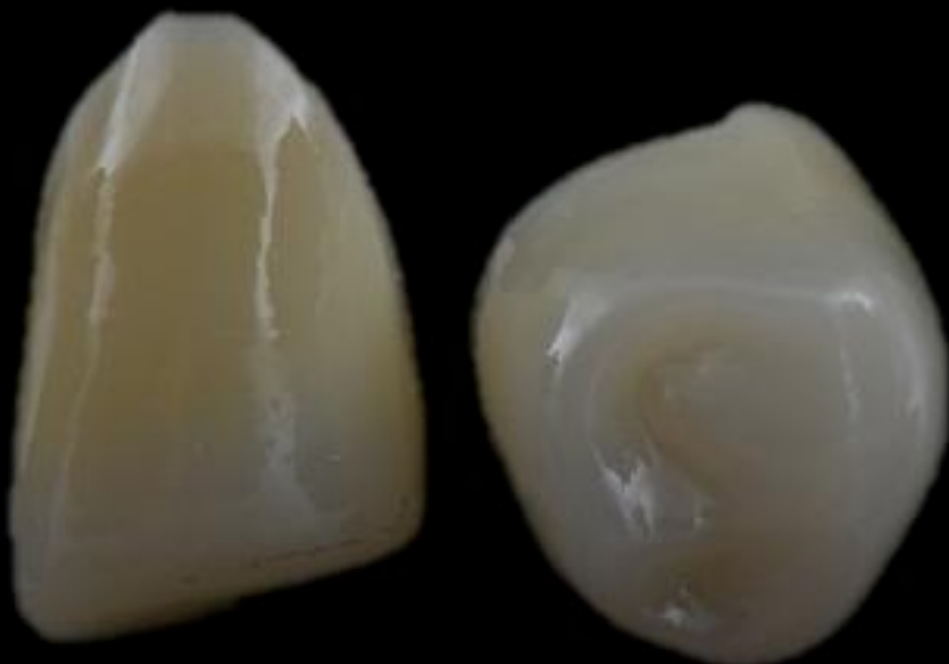
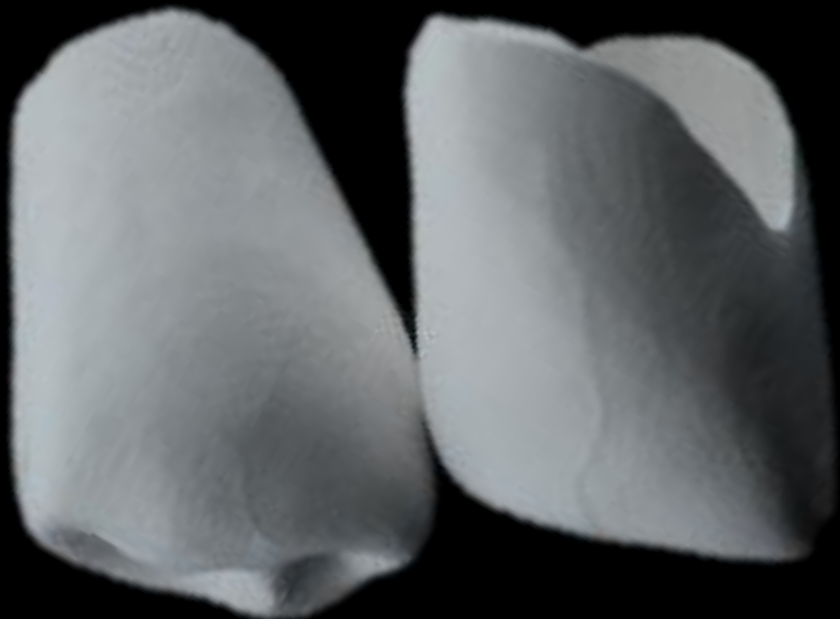
CAD (Final prosthesis)



Milling / Sintering / Glazing



Milling / Sintering / Glazing



#11,21,23 Final prosthesis (2024-11-06)



Follow up : 11 months (2024-10-30)



CT

From diagnosis to treatment

Sticking with facial scanning and IOS

Accuracy of CT check bite

CT - AI occlusal plane and midline

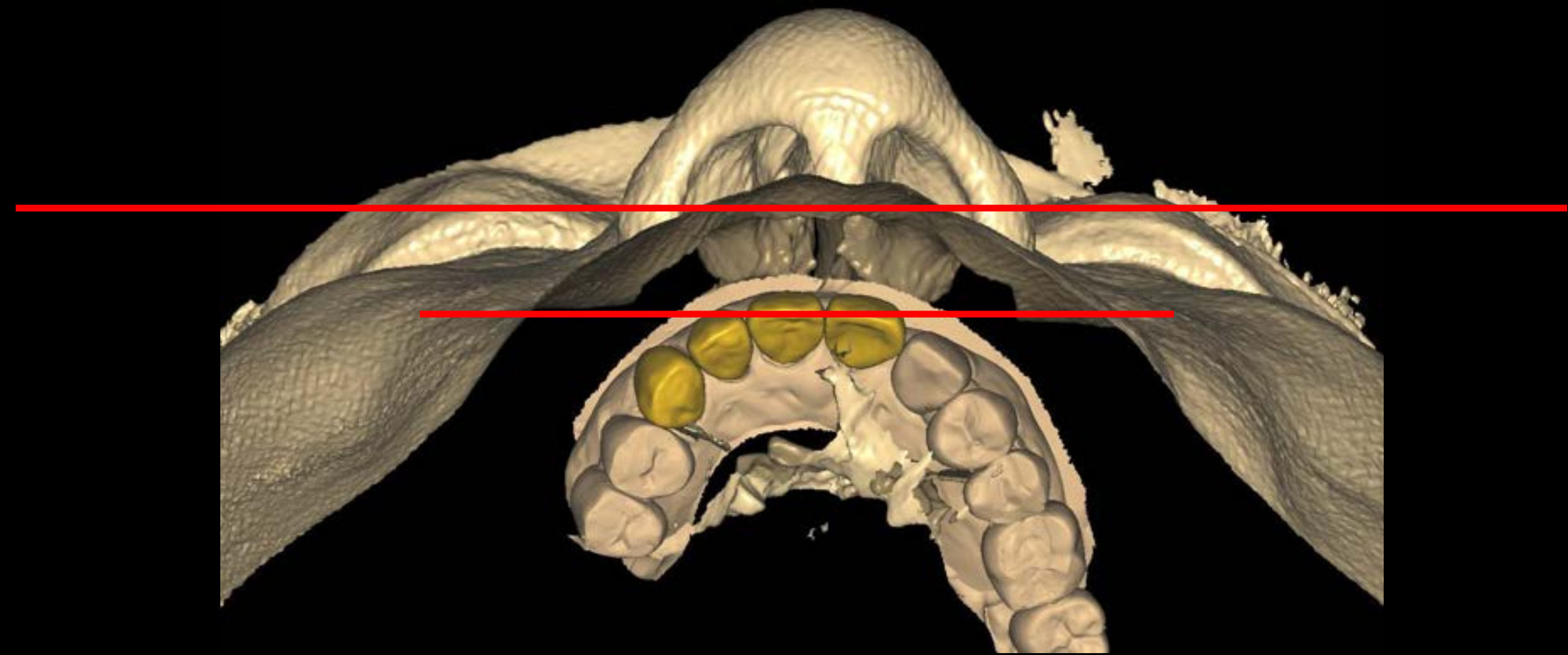
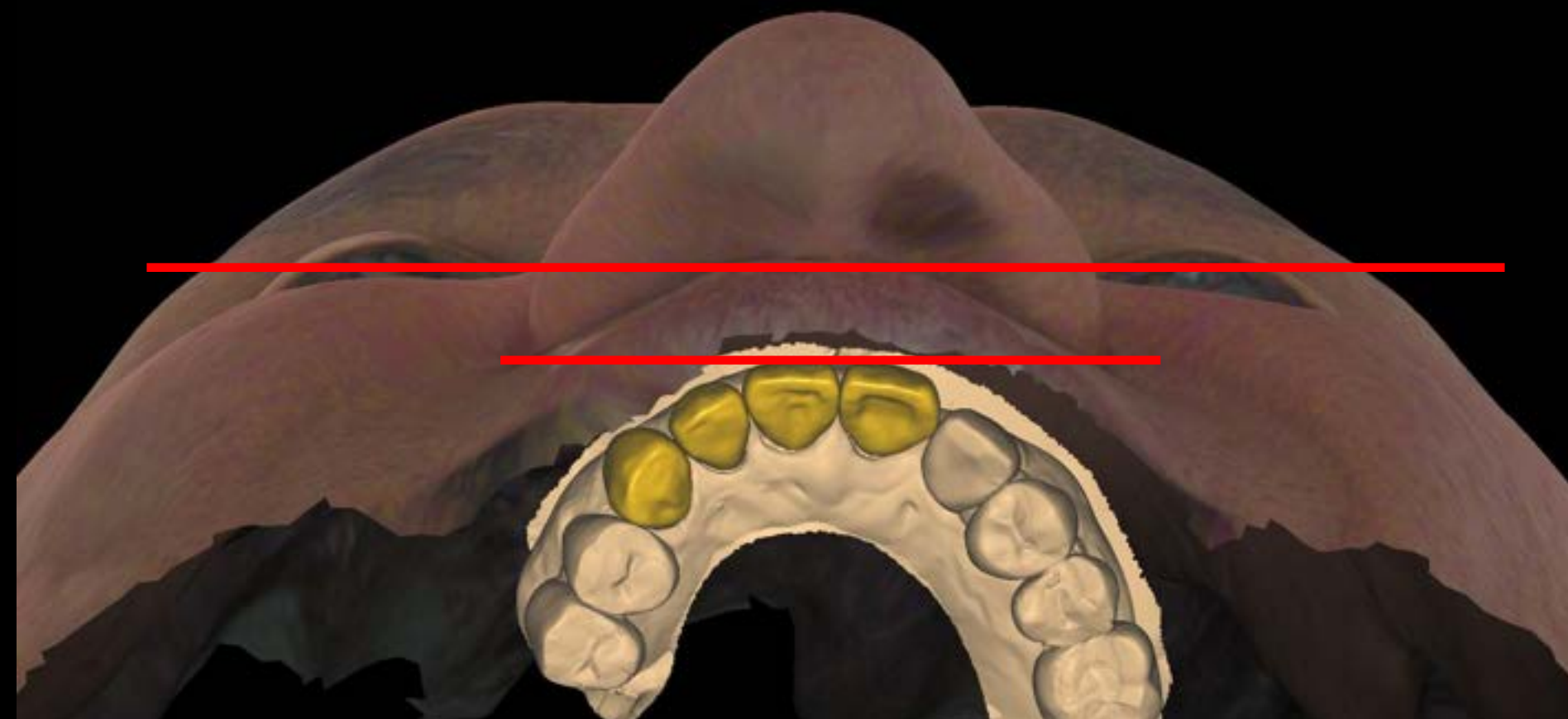
Facial scanner vs CT data application



Facial scanner
Good for pts consulting



CT STL
more precise for lab



bright CT

The **NEXT** in CBCT for Digital Tx

CT

From diagnosis to treatment

Sticking with facial scanning and IOS

CT check bite

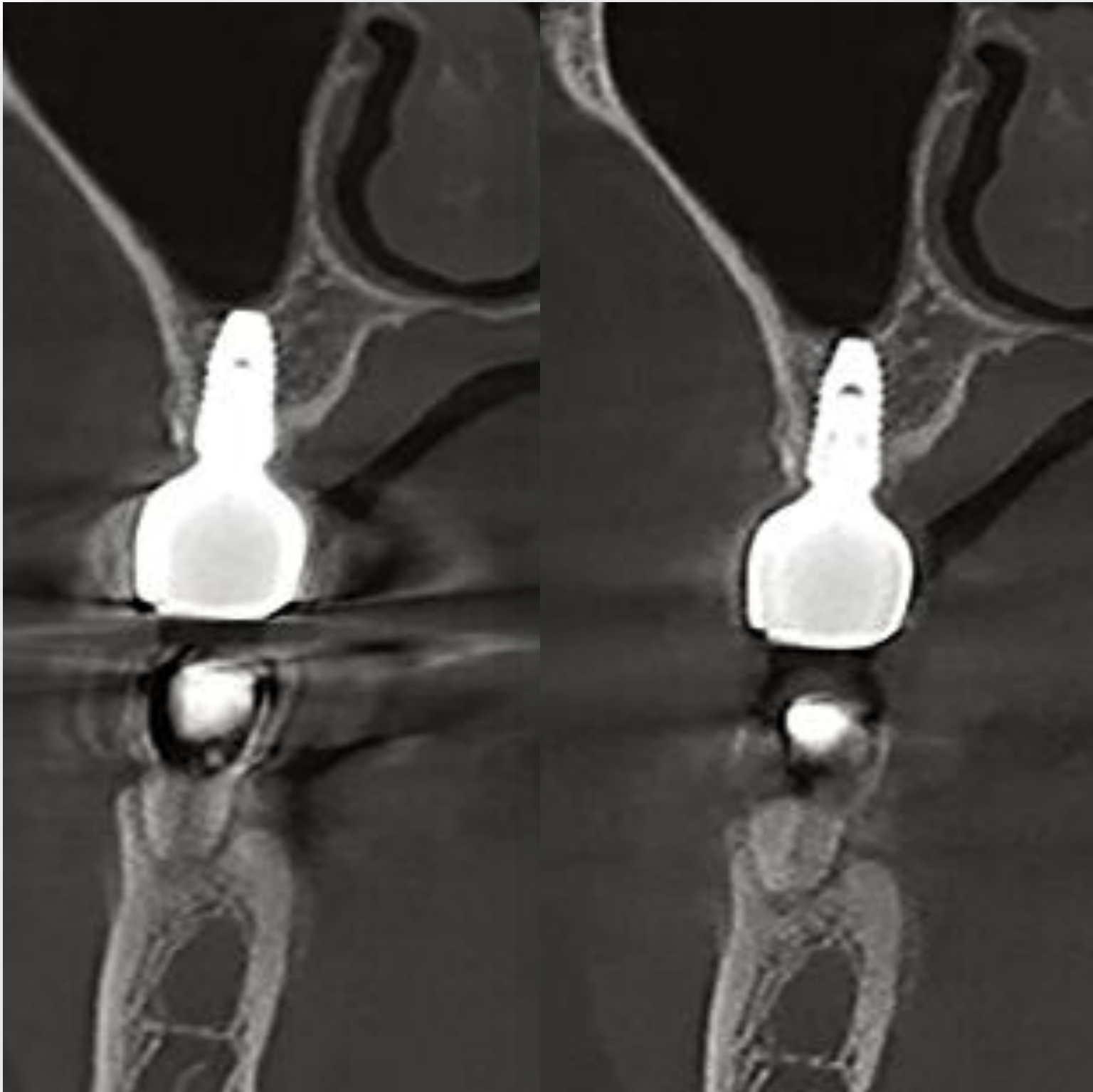
CT - AI occlusal plane and midline



What Makes bright CT Different?

-79%
**LOWER
RADIATION
EXPOSURE**

Less Dose



More Clarity



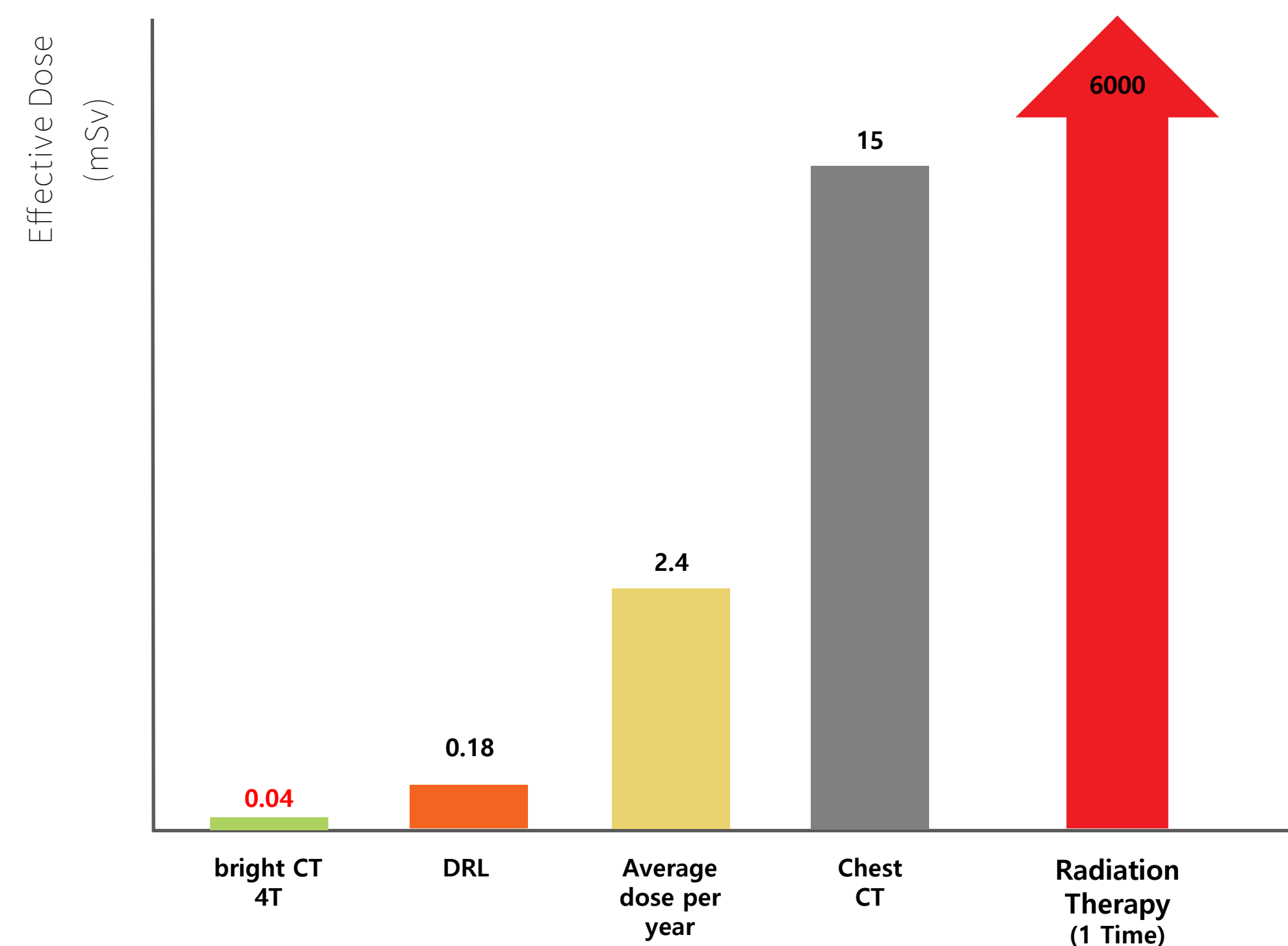
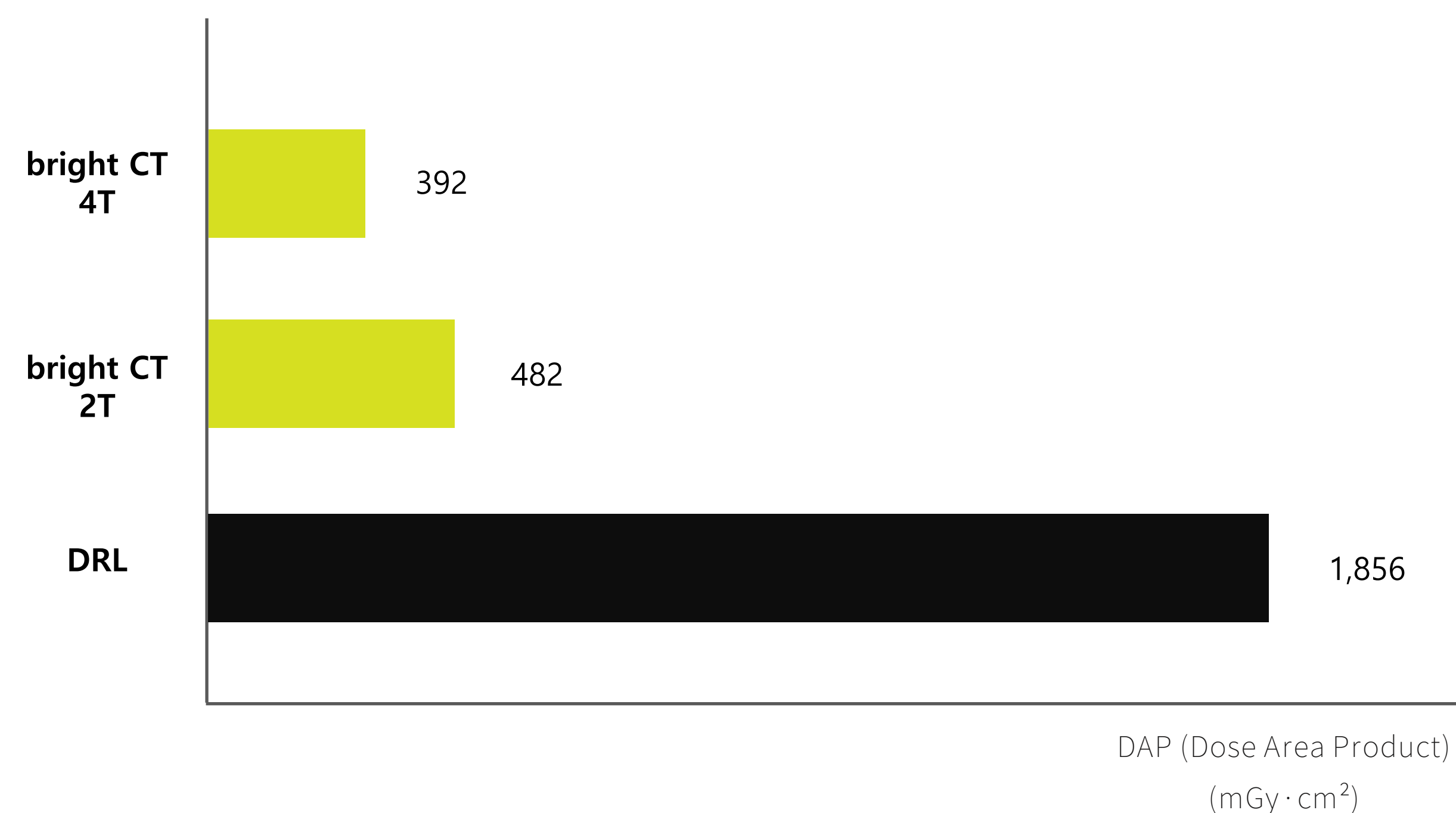
AI Simplicity

Clinical Value

Low Dose & Fast Scan

bright CT reduces radiation exposure by approximately 79% compared to Korea's Diagnostic Reference Level (DRL, 2024).

Designed with patient safety as the top priority, this mode enables confident imaging even for children, elderly patients, and other sensitive groups.



Clinical Value

Low Dose & Fast Scan

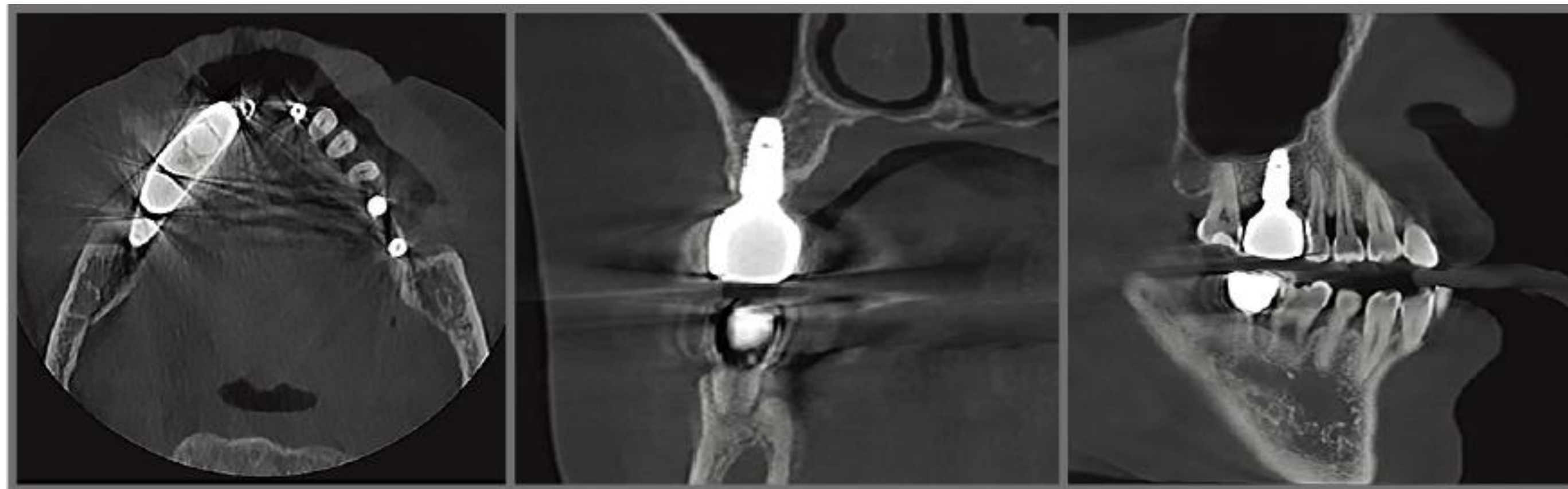
bright CT completes cephalometric scans in just 3.5 seconds and CT scans in about 15 seconds, reducing patient discomfort and minimizing motion artifacts. The shorter scan time ensures clearer images, increases patient satisfaction, and provides clinicians with greater diagnostic confidence.

		4T	4TC
Scan Time (sec)	Pano	11.8	
	CT	Low Dose / Normal / High Resolution 10 / 15 / 25	
	Ceph		3.5
	Impression	24.5	

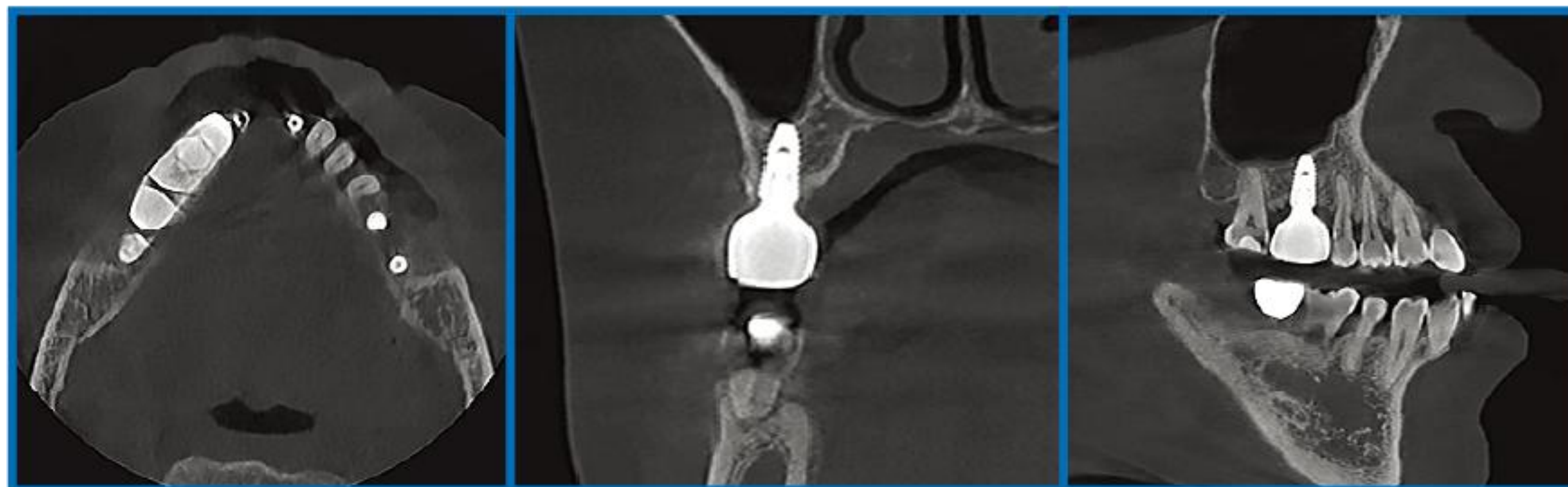
Clinical Value

NEXT Generation MAR(Metal Artifact Reduction)

The upgraded MAR technology automatically reduces the streak artifacts caused by metal objects and improves the quality of images for precise diagnosis.



MAR OFF



MAR ON

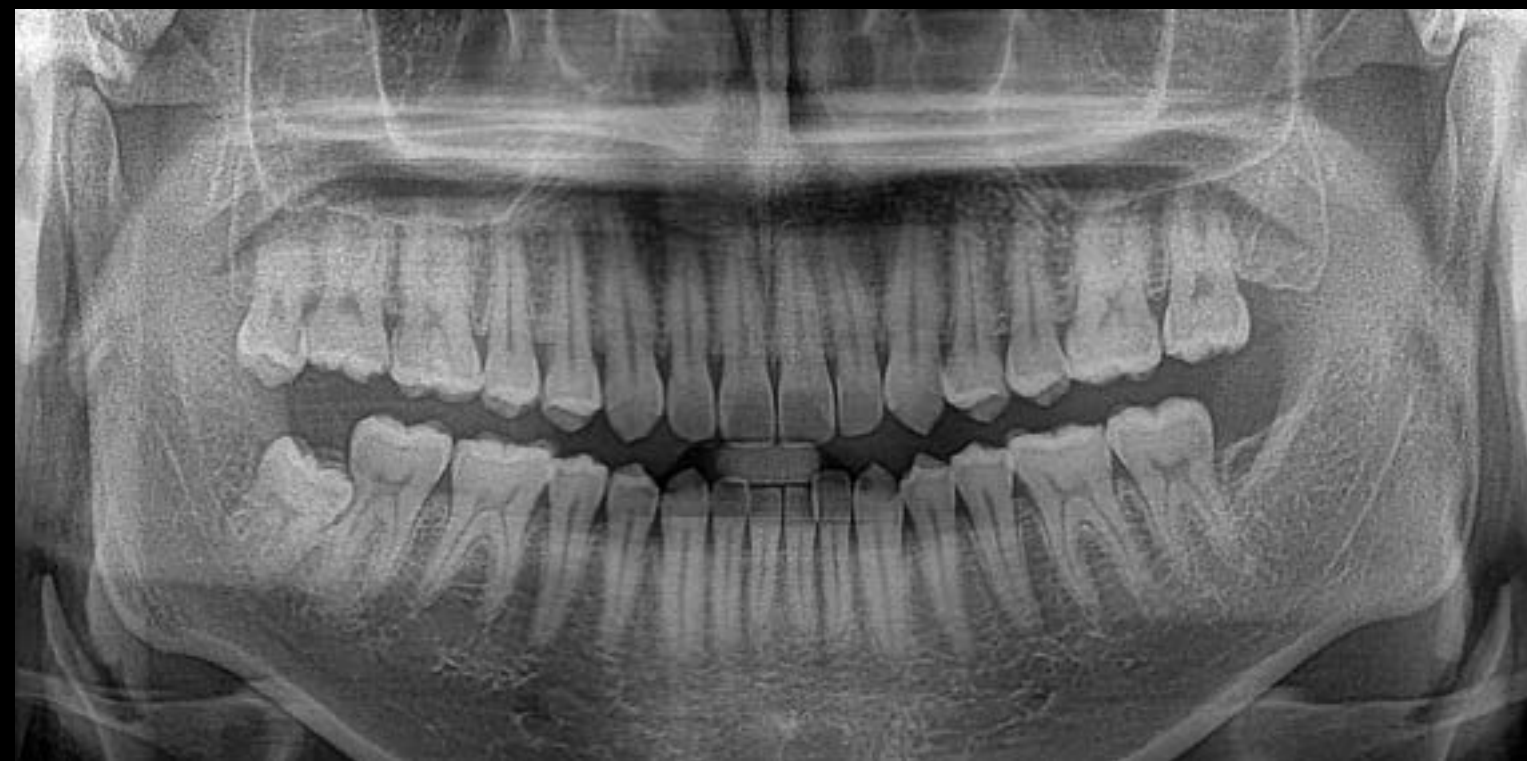
Clinical Value

NEW

One Scan. All You Need

Capture high quality CBCT, panoramic, and cephalometric images in a single scan.

No retakes. No extra radiation. Improved patient experience without compromising quality.



Virtual Panoramic Image



Virtual Cephalogram

Clinical Value

Orthodontic AI Tracing

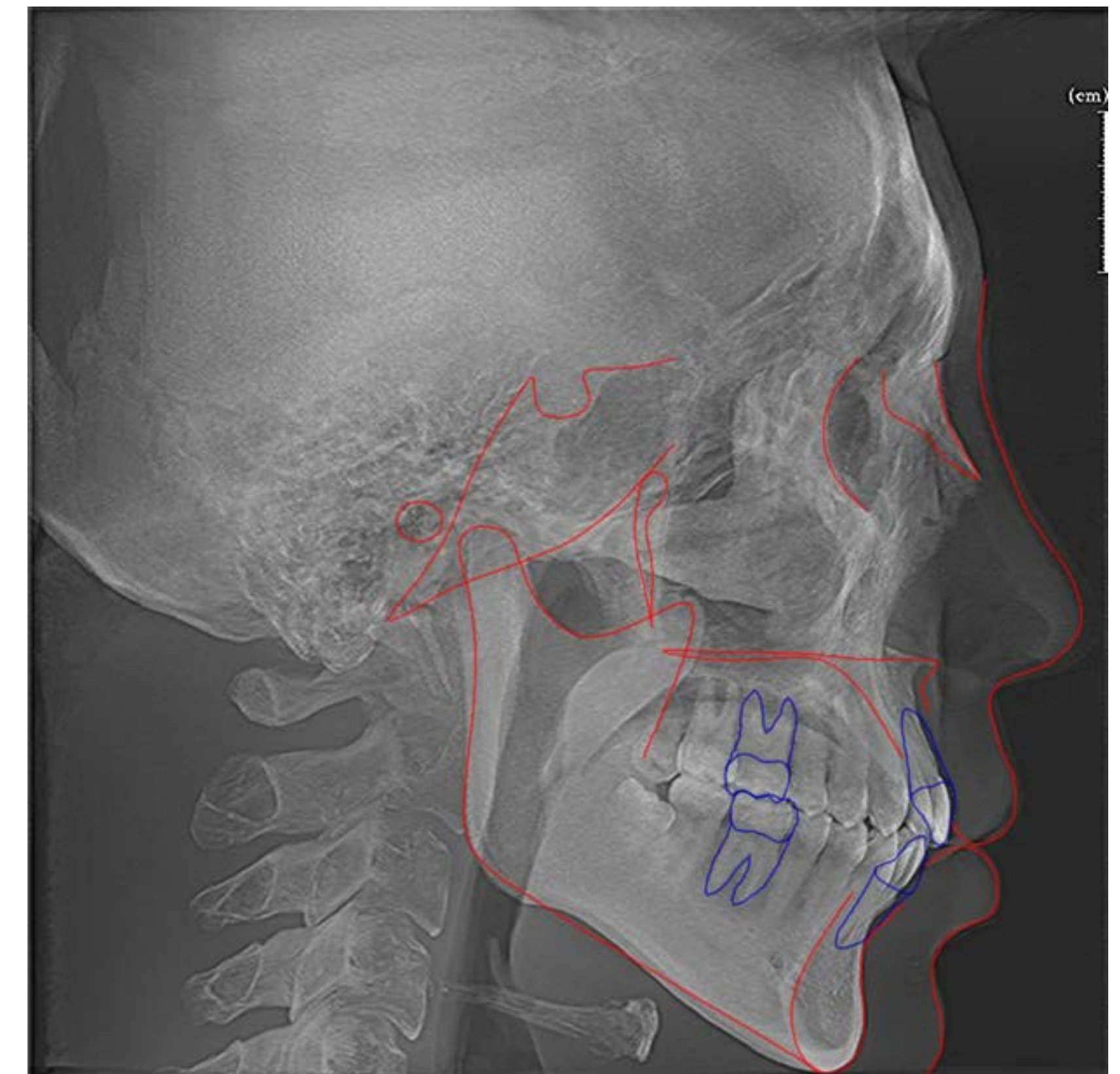
Automatic orthodontic landmark recognition. Save time and boost accuracy with your orthodontic treatments.



Lateral

PA

SMV



NEW

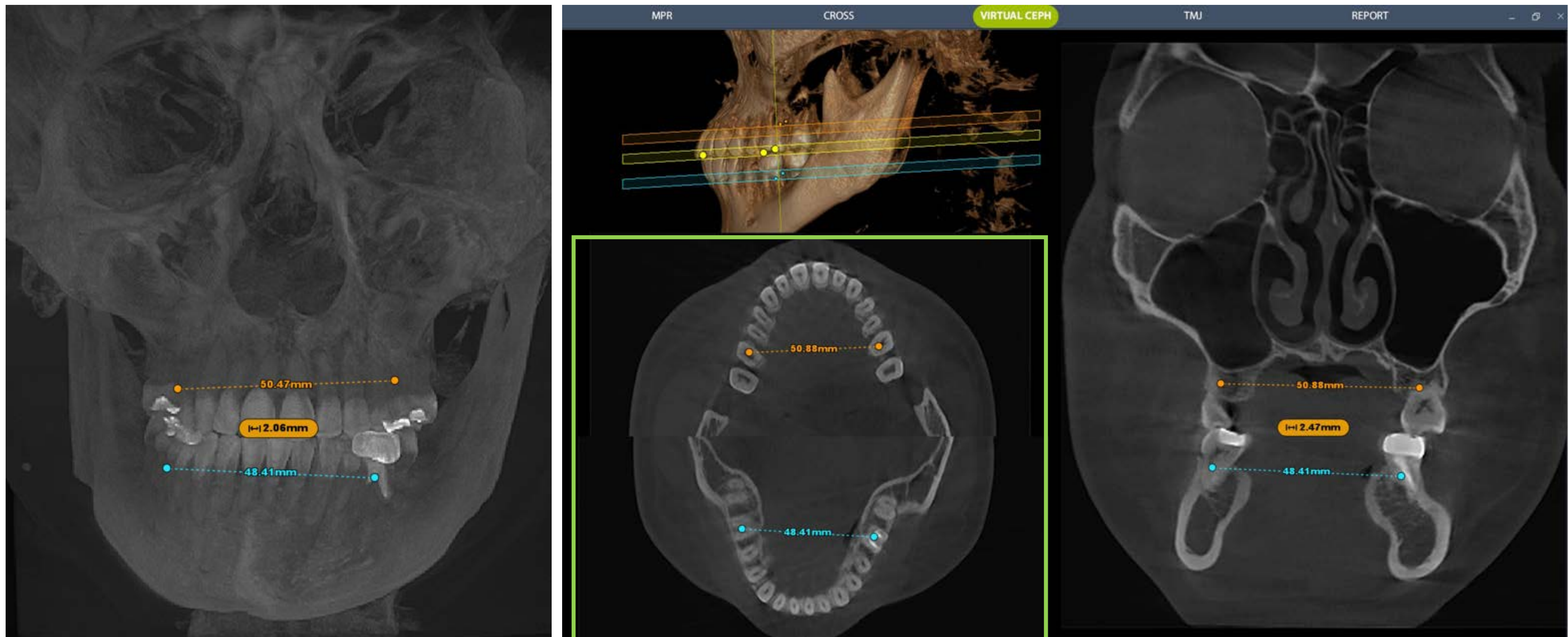
Clinical Value

NEW

Create IMW(Inter Molar Width)

Real time data in a single click.

Check the maxillary and mandibular basal widths and their differences based from the first molar's center of resistance (Cres)



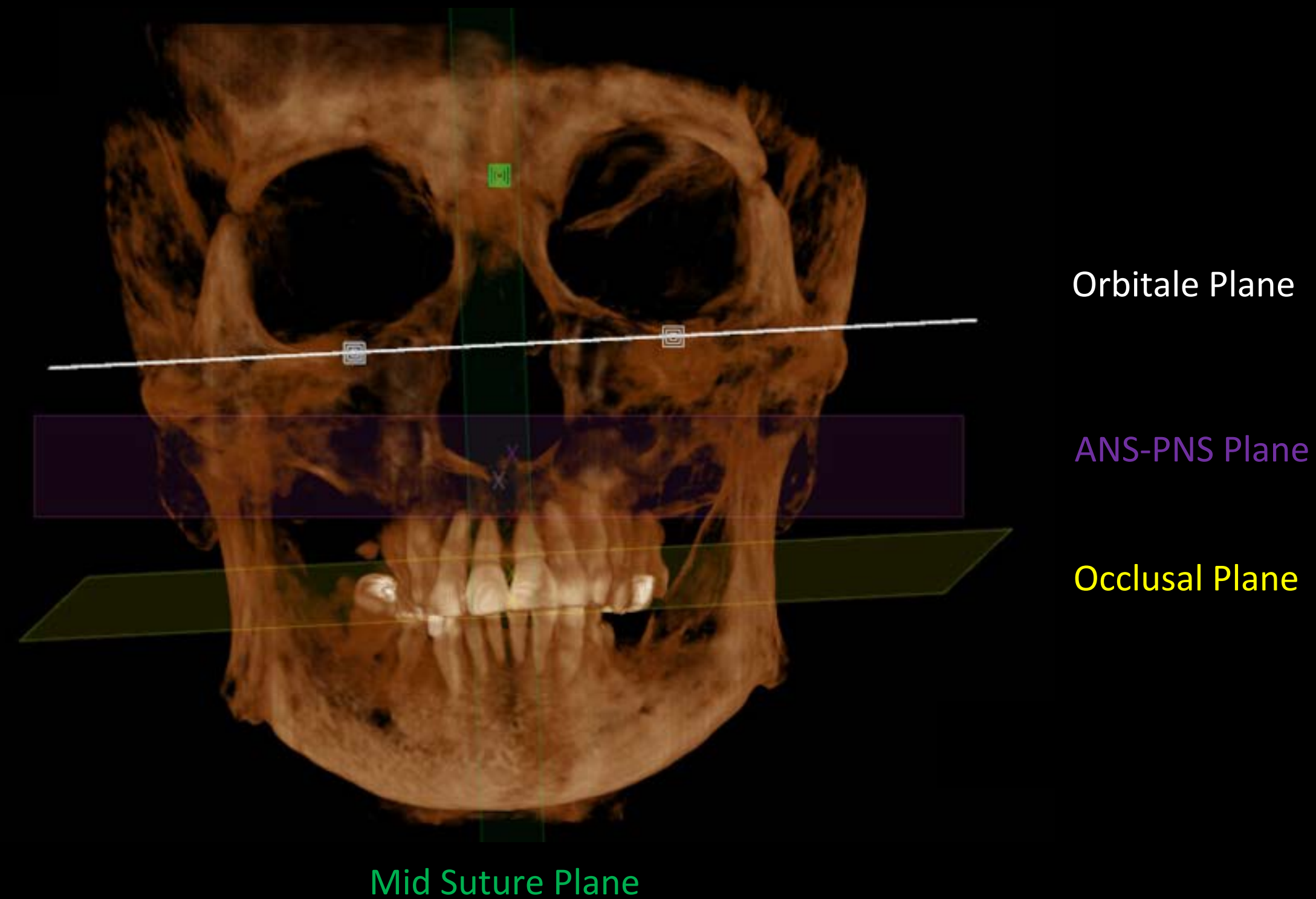
* This feature is designed based on YTI research.

Clinical Case Applications

Implant Cases

2. Advanced Case : AI Occlusal Plane

Defines ideal occlusal and midline planes using ANS–PNS, Orbitale, and Mid-suture line, helping clinicians establish precise prosthetic and orthodontic references.



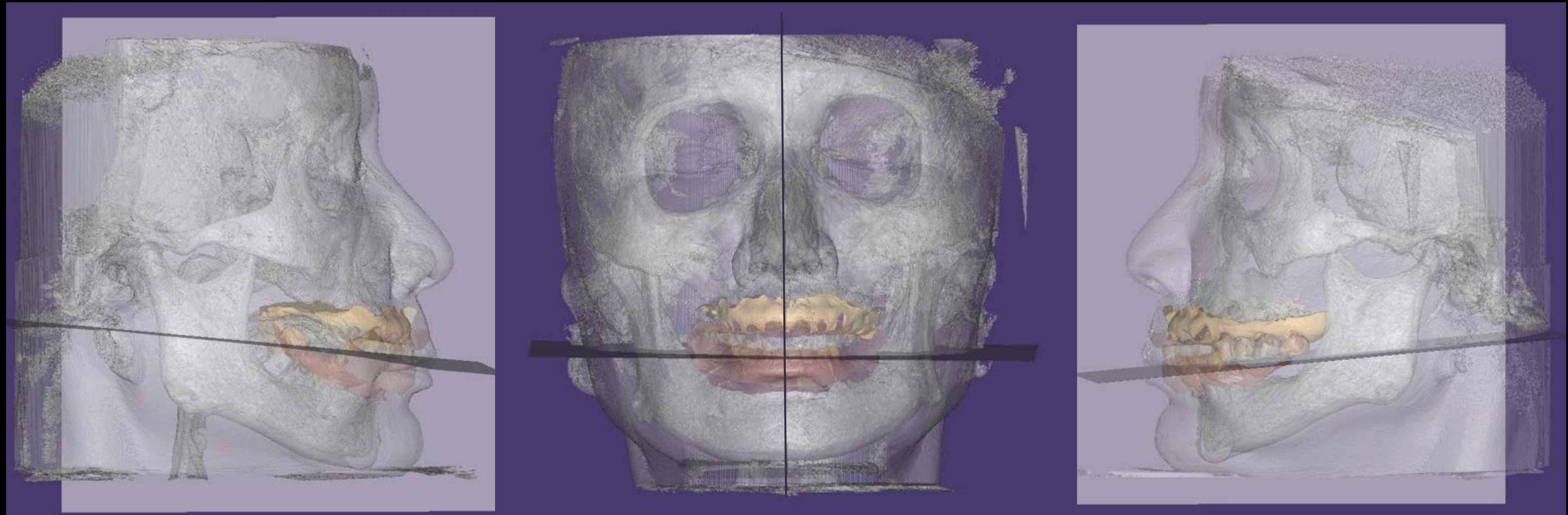
Clinical Case Applications

Implant Cases

2. Advanced Case : AI Occlusal Plane

2

Export occlusal plane, midline, and tissue data from the viewer as STL files to CAD for alignment with working models.



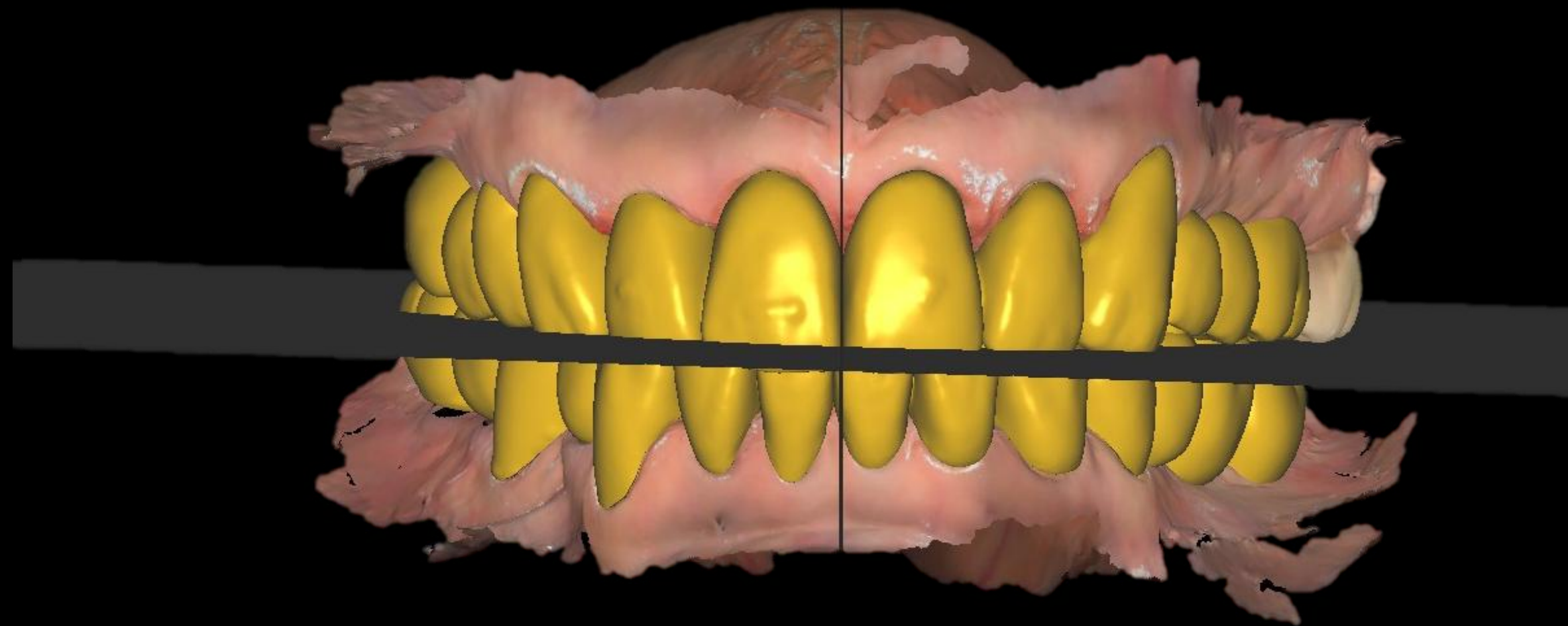
Clinical Case Applications

Implant Cases

2. Advanced Case : AI Occlusal Plane

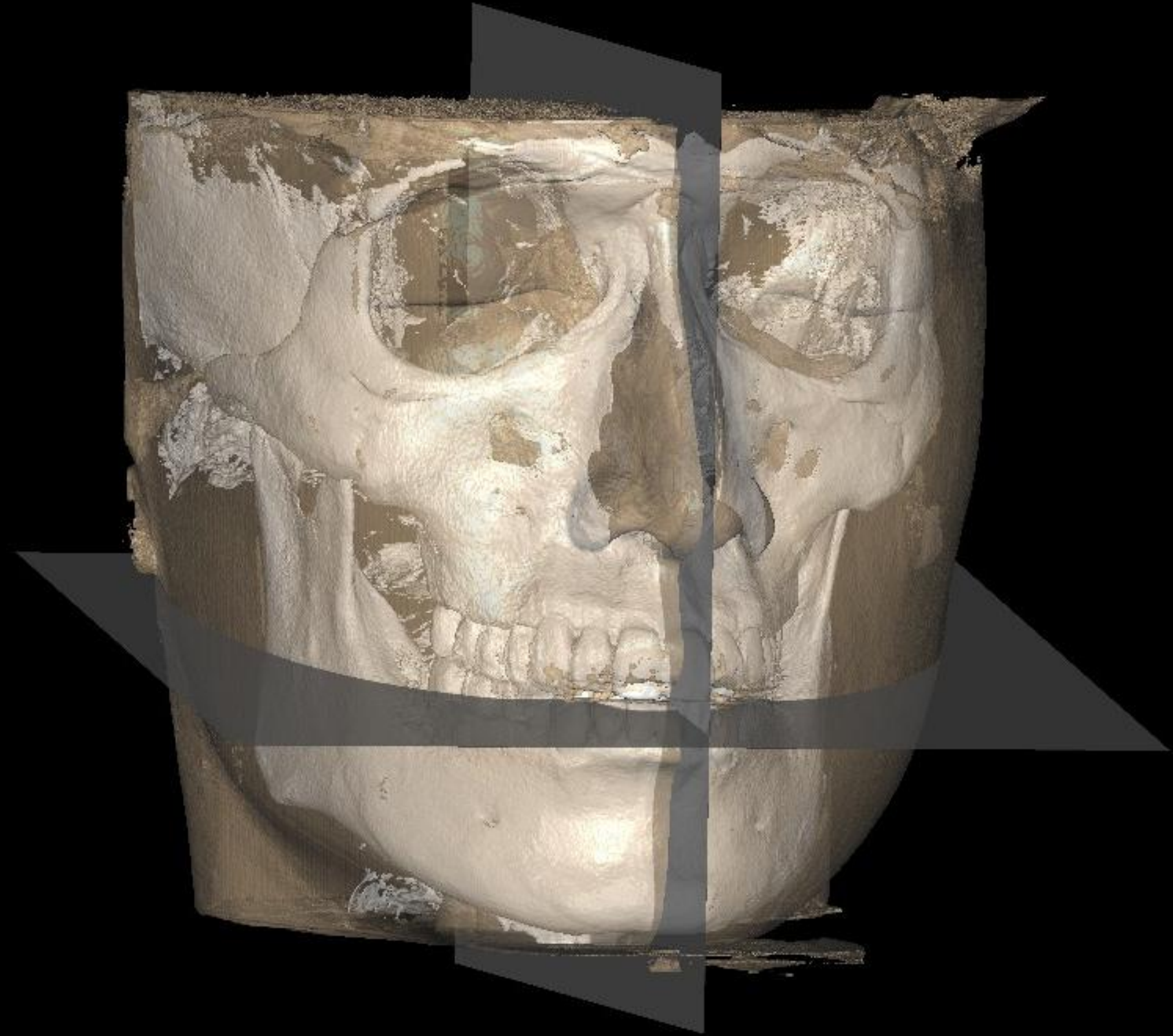
4

AI-generated midline and occlusal plane provide exact guidelines for tooth alignment in edentulous cases, especially in upper anterior esthetics.



CAD

CT data with Orthodontics diagnose



CT data
(AI occlusal plane, Hard & Soft Tissue data)

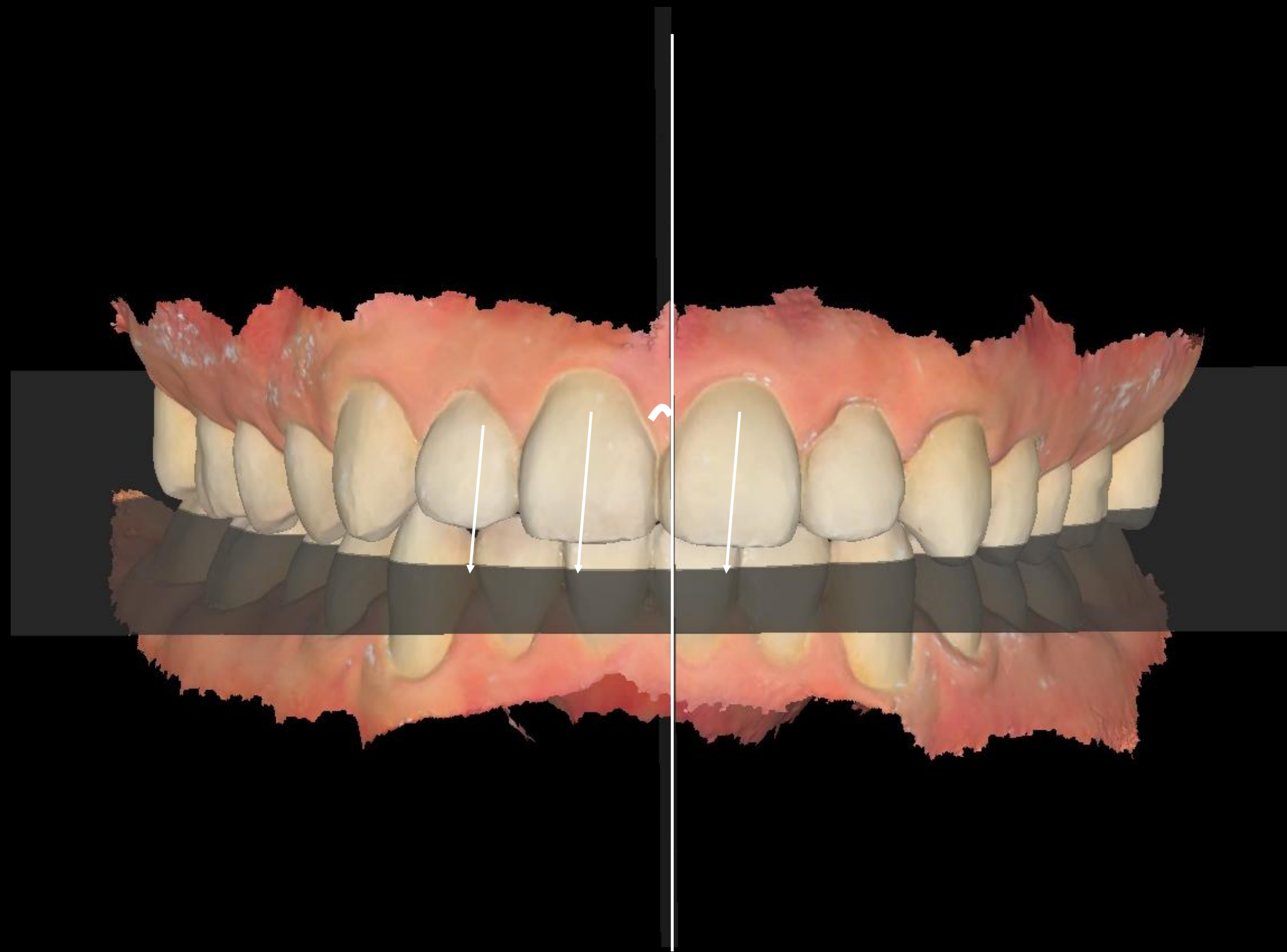


Shining 3d Elite IOS scan data



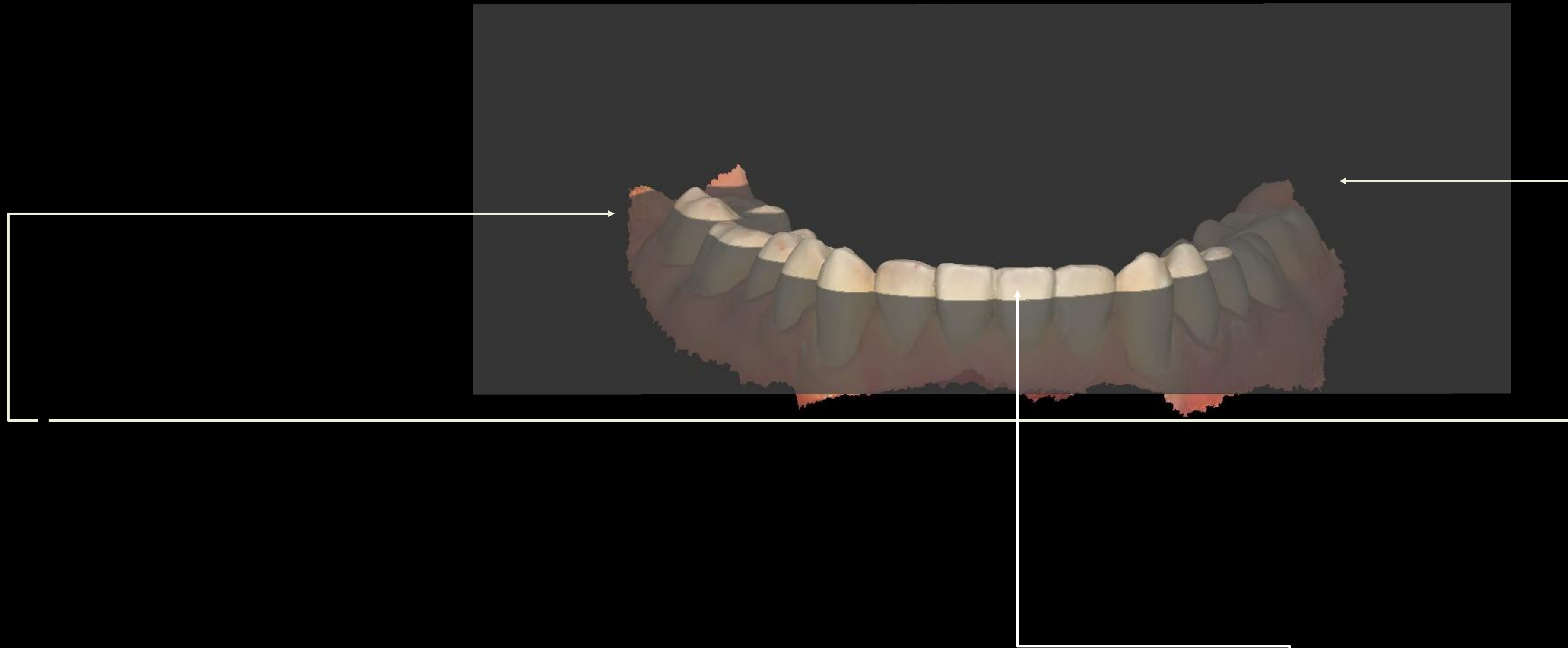
Shining 3d MetiSmile

CT data with Orthodontics diagnose



****Assessment of Deviated Anterior Maxillary Tooth Axis & Midline****

CT data with Orthodontics diagnose



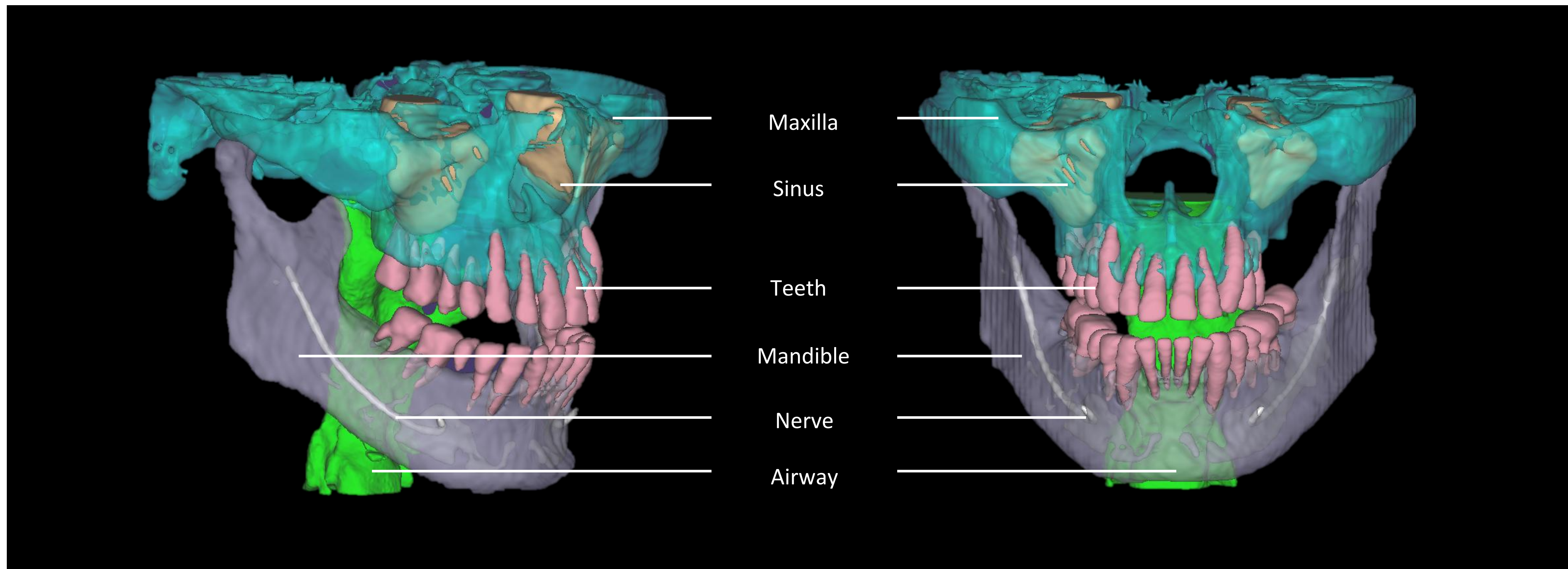
**** Diagnosis of Occlusal Plane in Left and Right Posterior Teeth and Mandibular Anterior Teeth ****

Clinical Value

NEW

AI Segmentation

Automatically segments teeth, nerves, bones, sinus and airway clearly — very helpful for intuitive diagnosis and patient consultation.

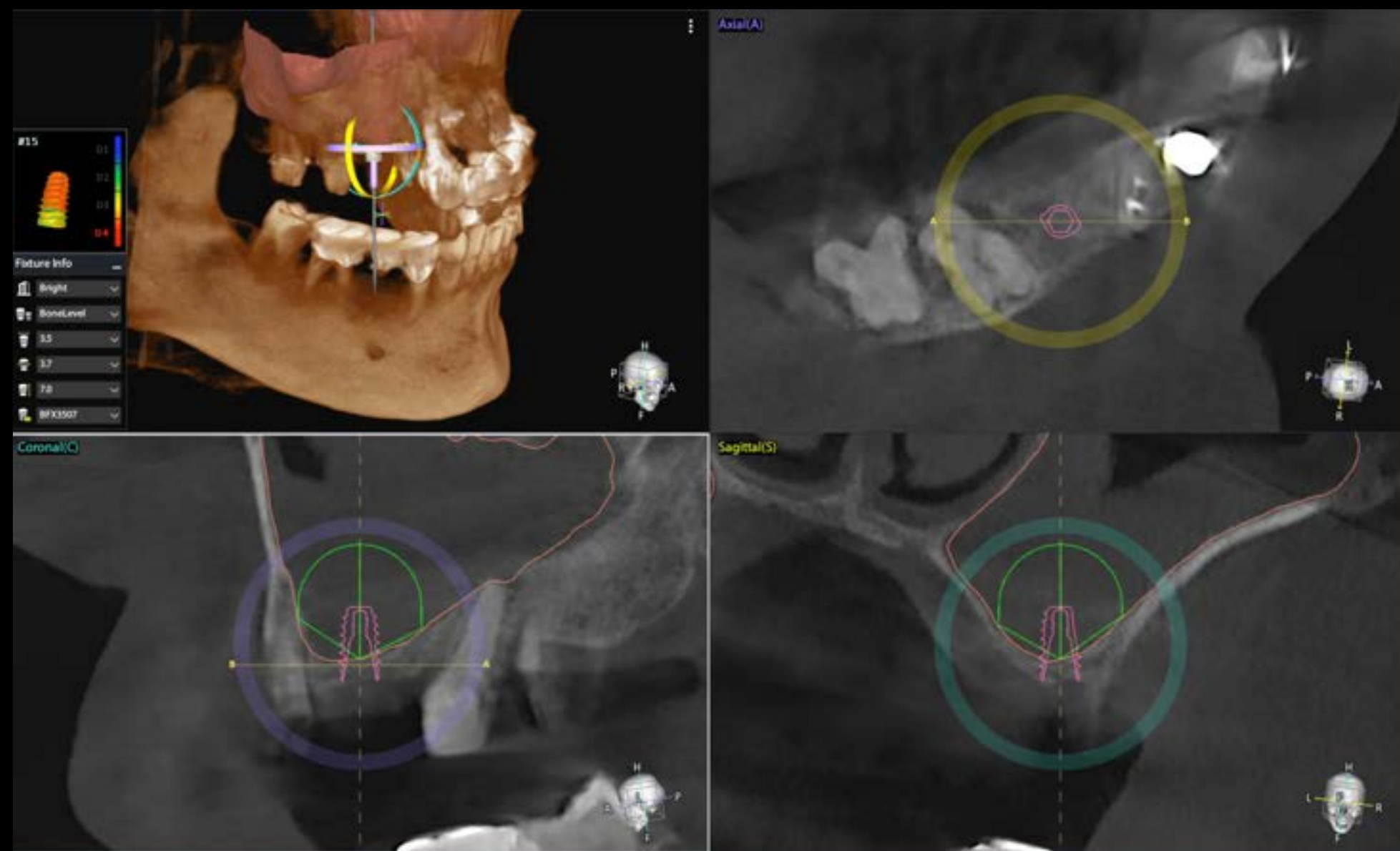


Clinical Value

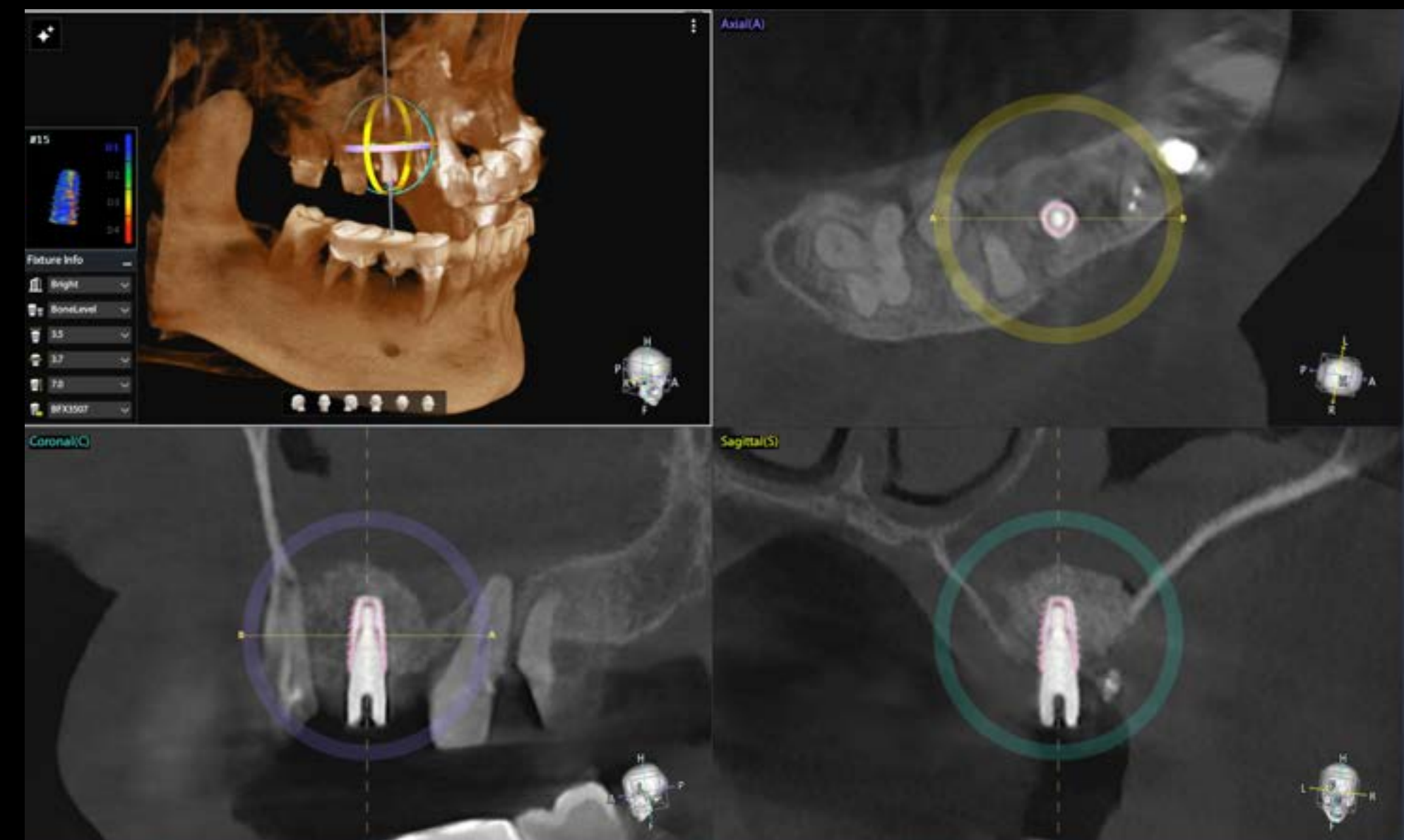
NEW

AI Sinus Bone Graft

Based on segmented maxillary sinus data, the AI feature provides a visualization of the expected augmented volume in areas requiring sinus grafting.



Bone Graft Simulation



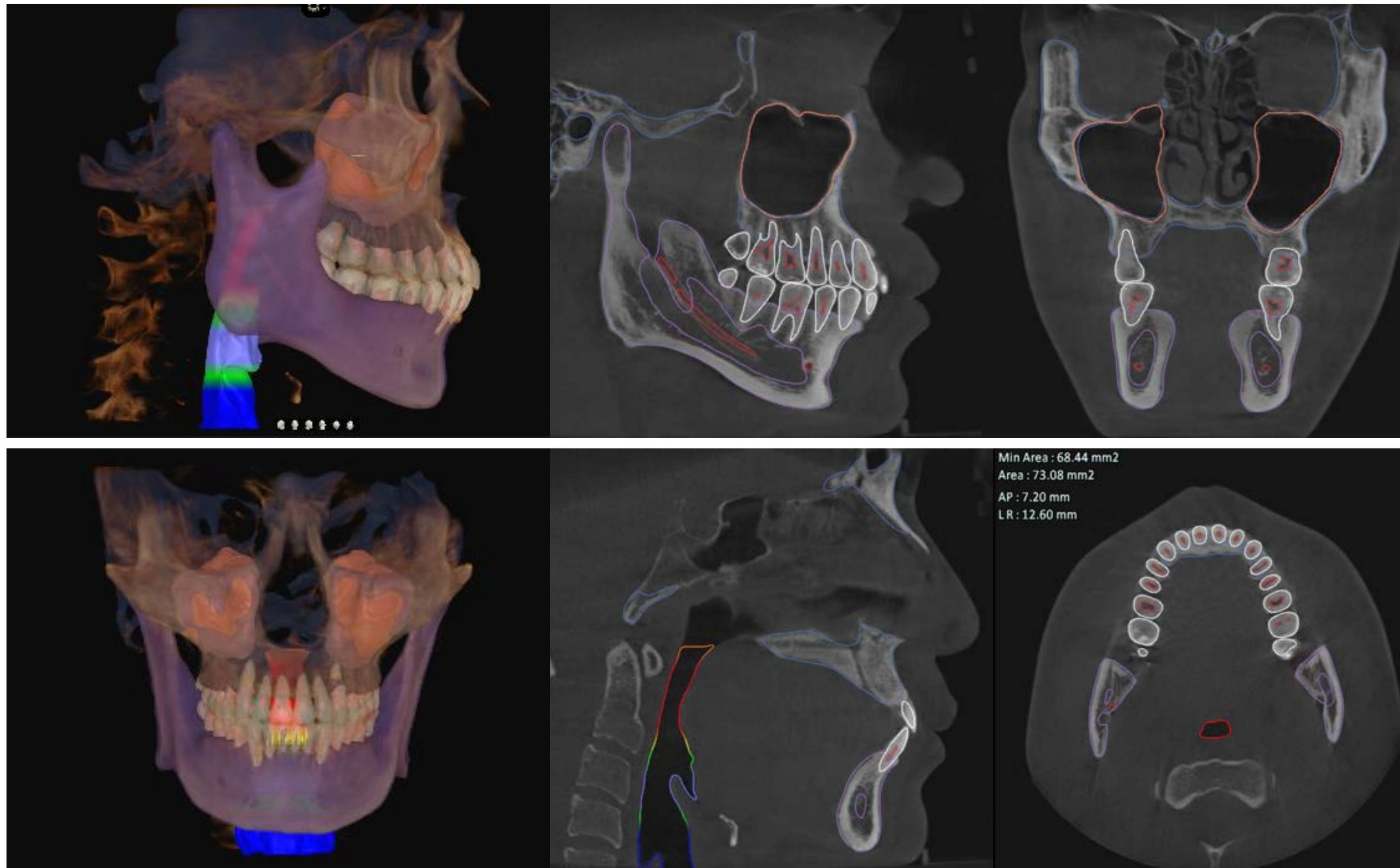
After Sinus Bone
Graft

Clinical Value

NEW

AI Segmentation

Automatically segments teeth, nerves, bones, sinus and airway clearly — very helpful for intuitive diagnosis and patient consultation.



CT viewer

Before for Diagnosis, but now for treatment

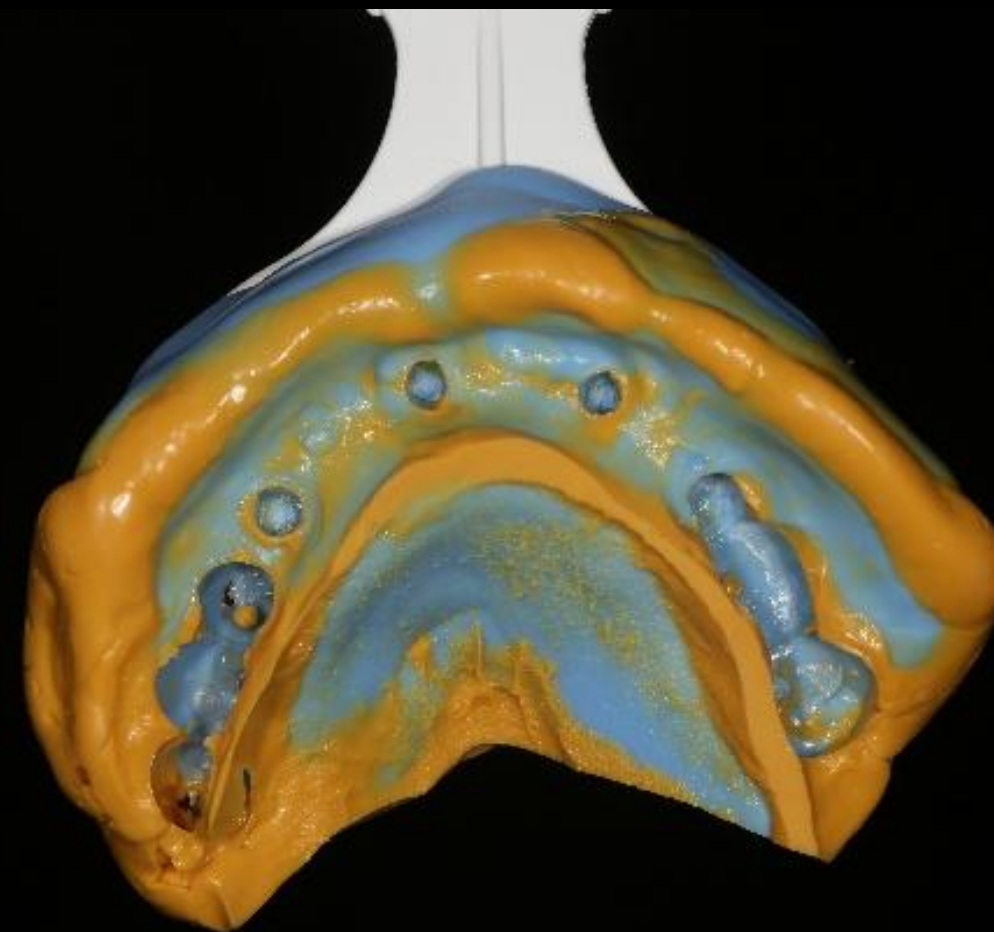
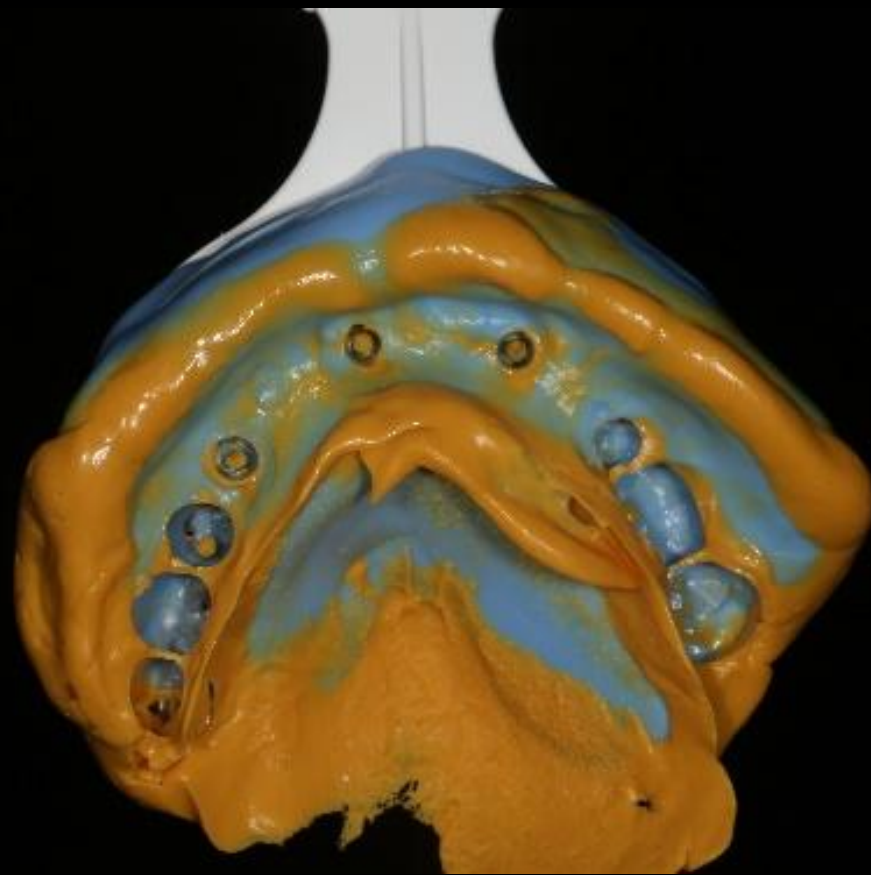
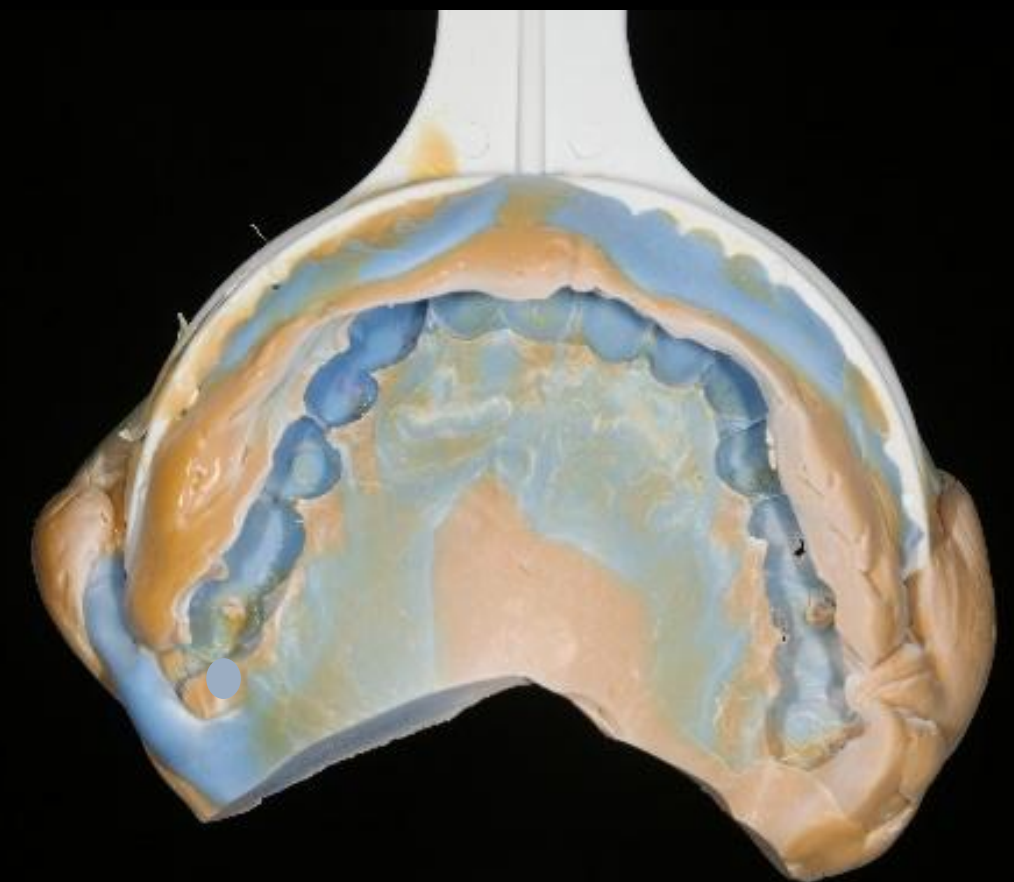
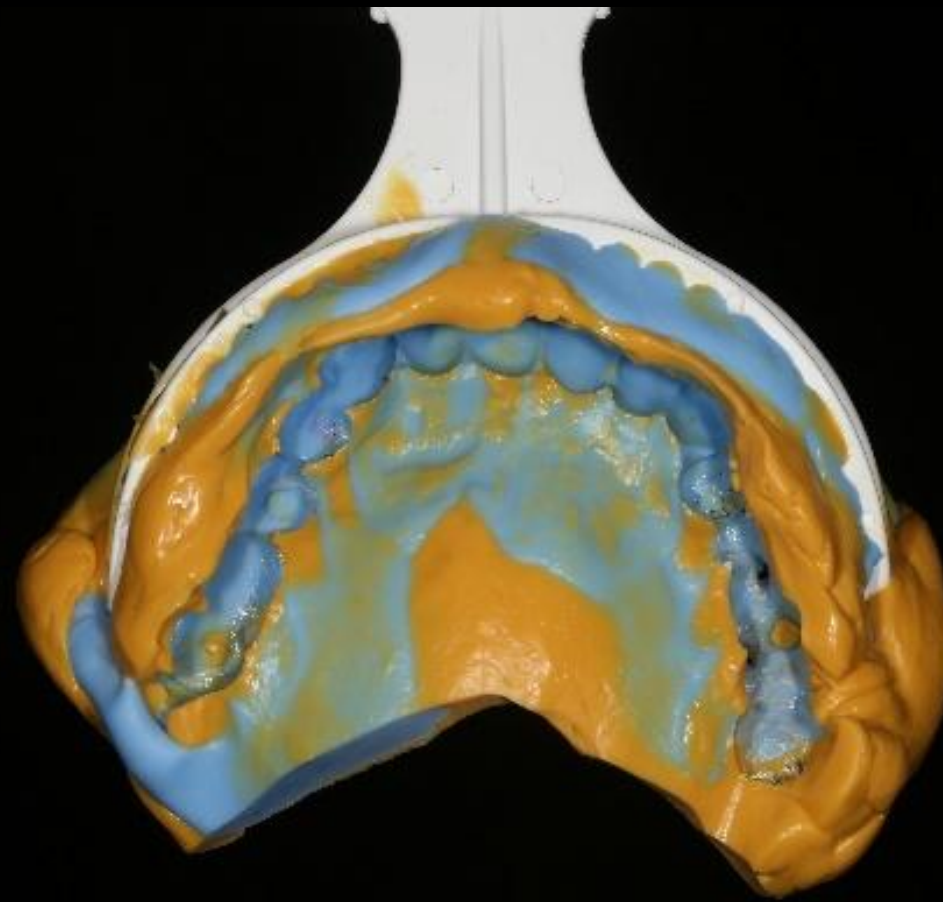
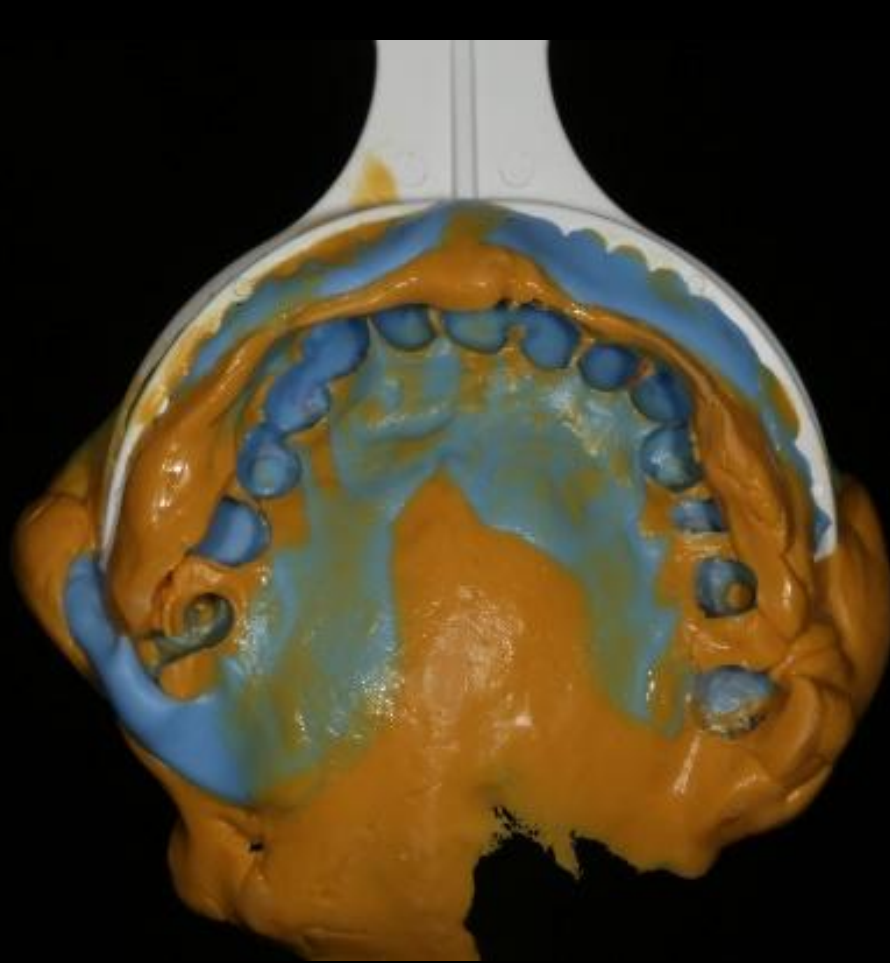
Check bite - metal artifacts reduction algorithms

AI occlusal plane - midline and occlusal plane

- # 44i, 41i, 33i
- bright Tissue Level
- Shade A3
- Shine T block



Bite Tray Impression Scan



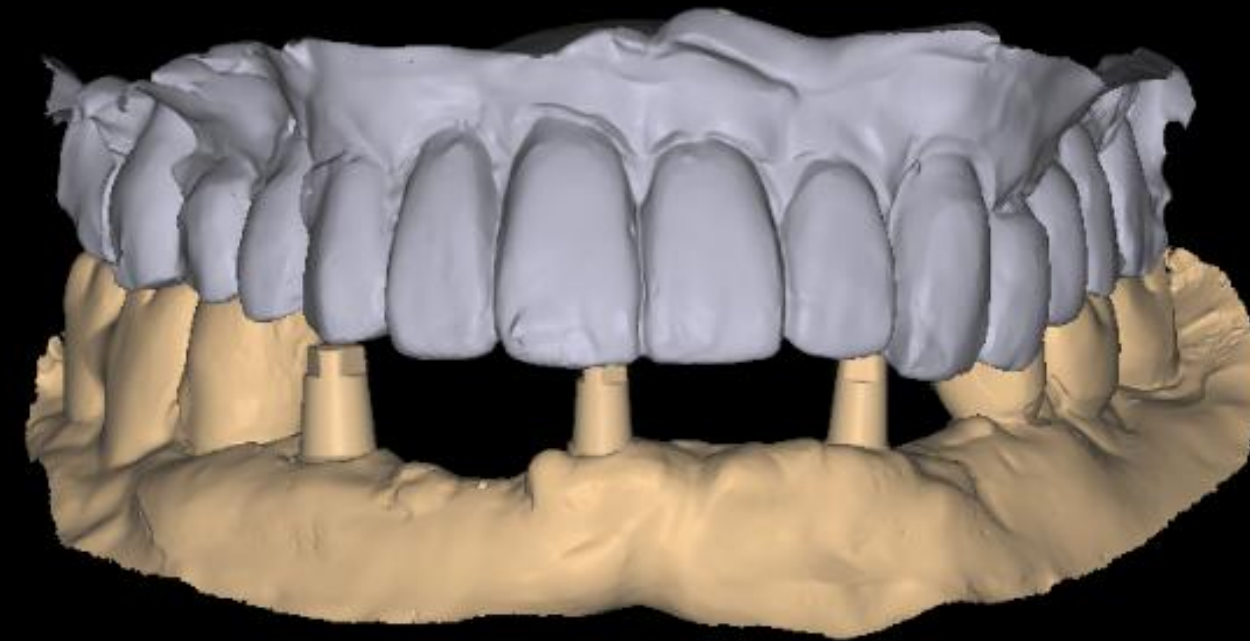
Border Trimming

Scan spray

Working model

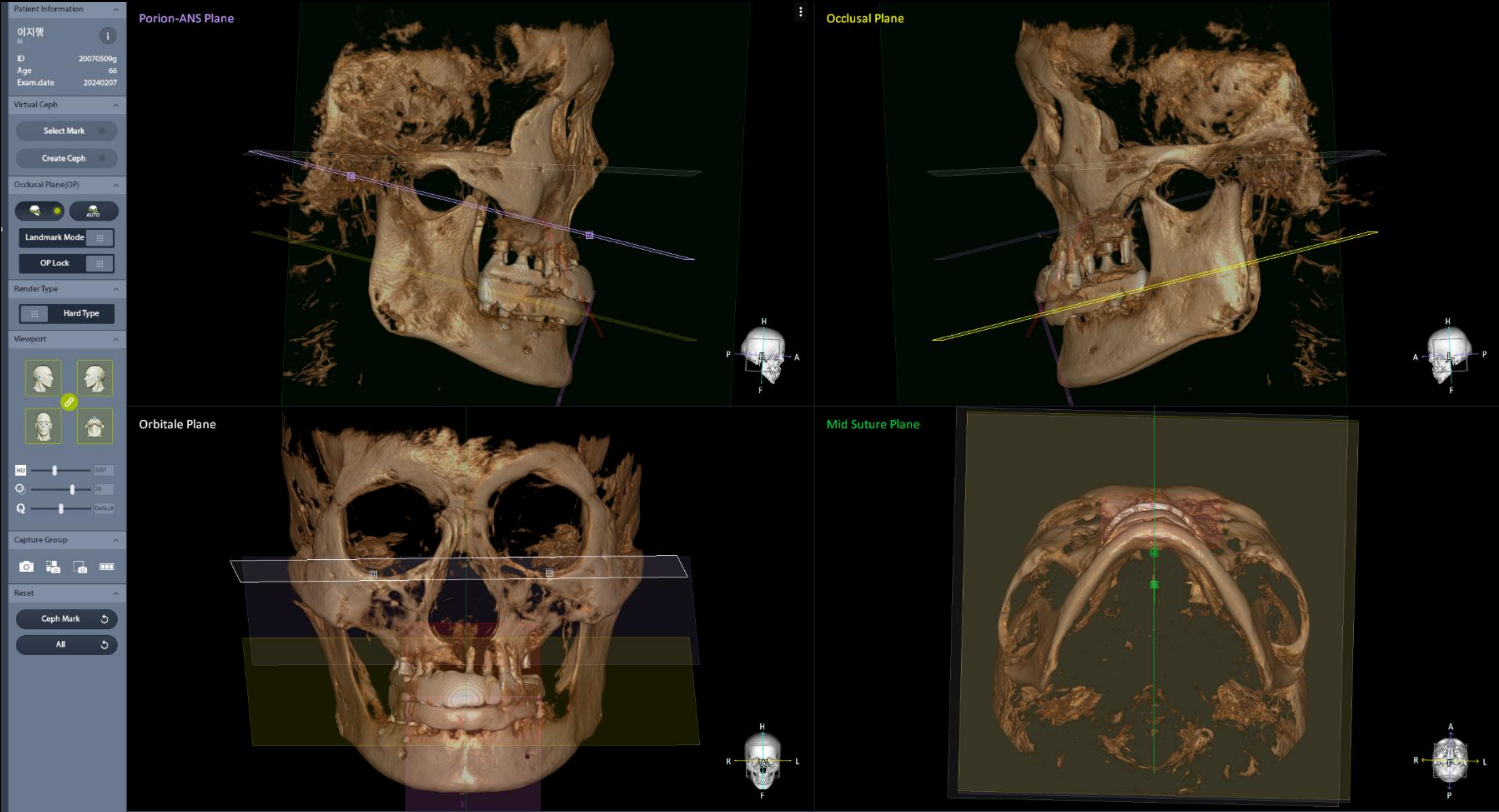


Shining 3D
AutoScan-DS-EX Pro (H)



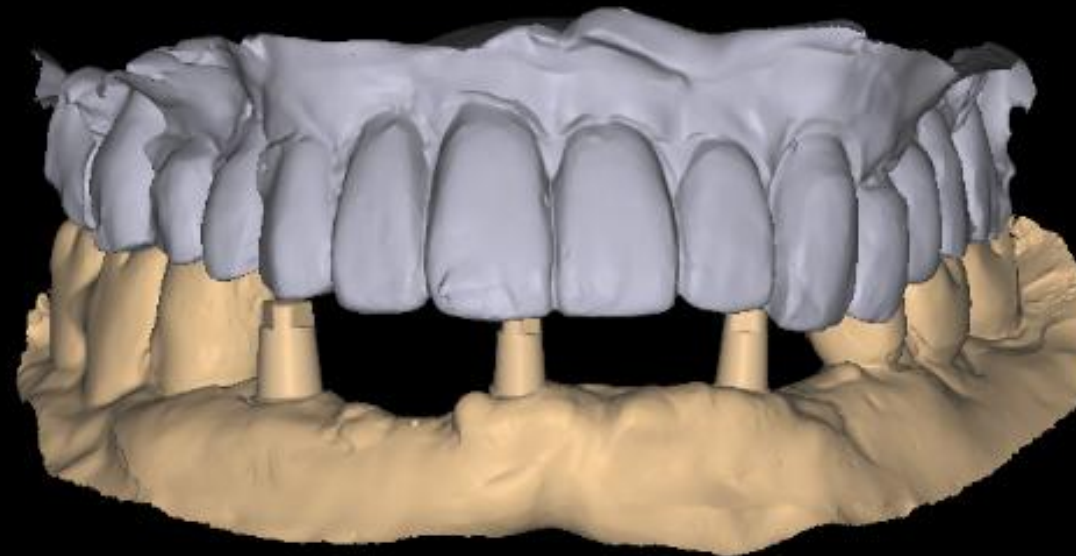
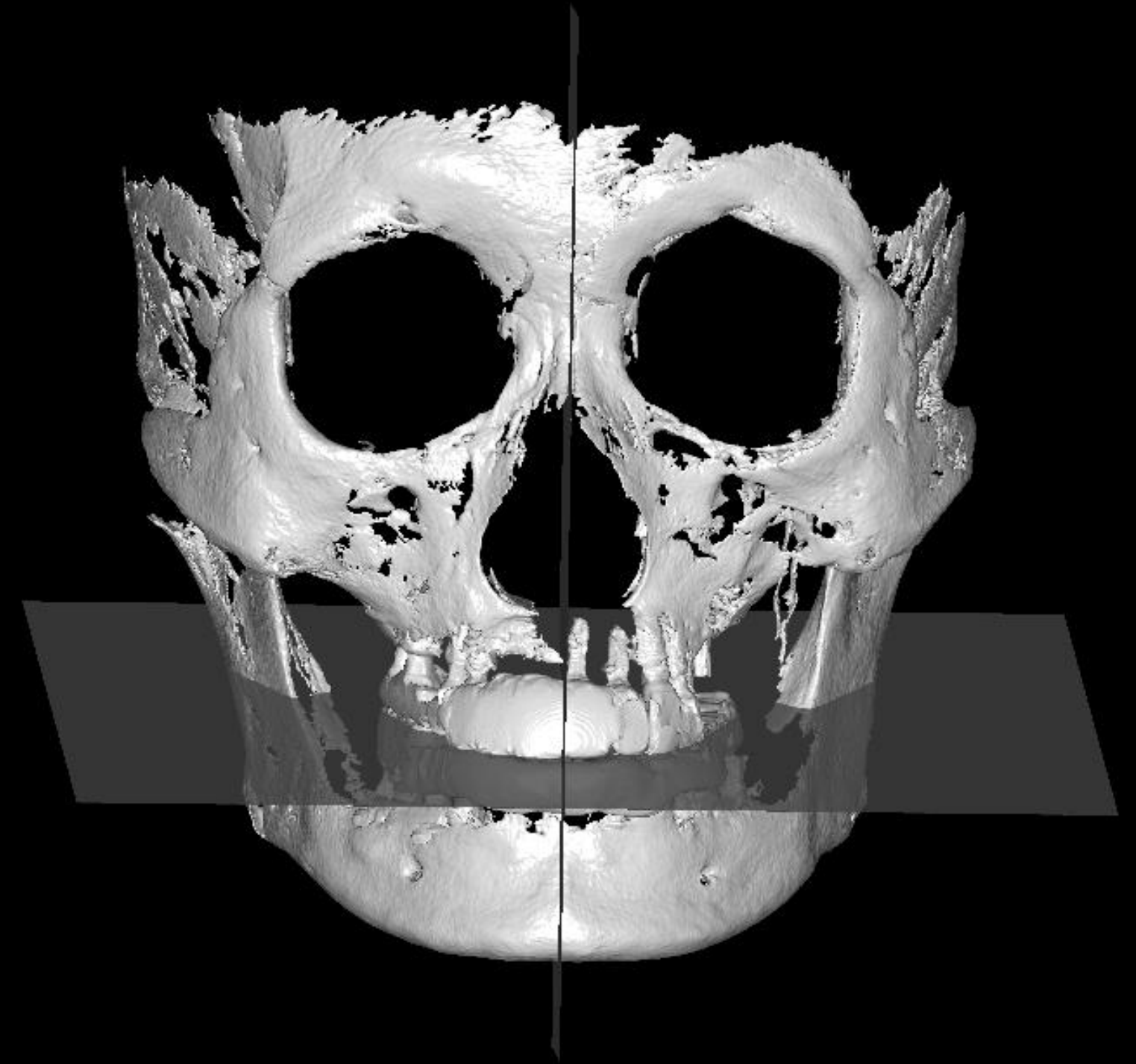
Bite Tray Impression Scan

Dentium Viewer



AI Occlusal Plane

Cad Design



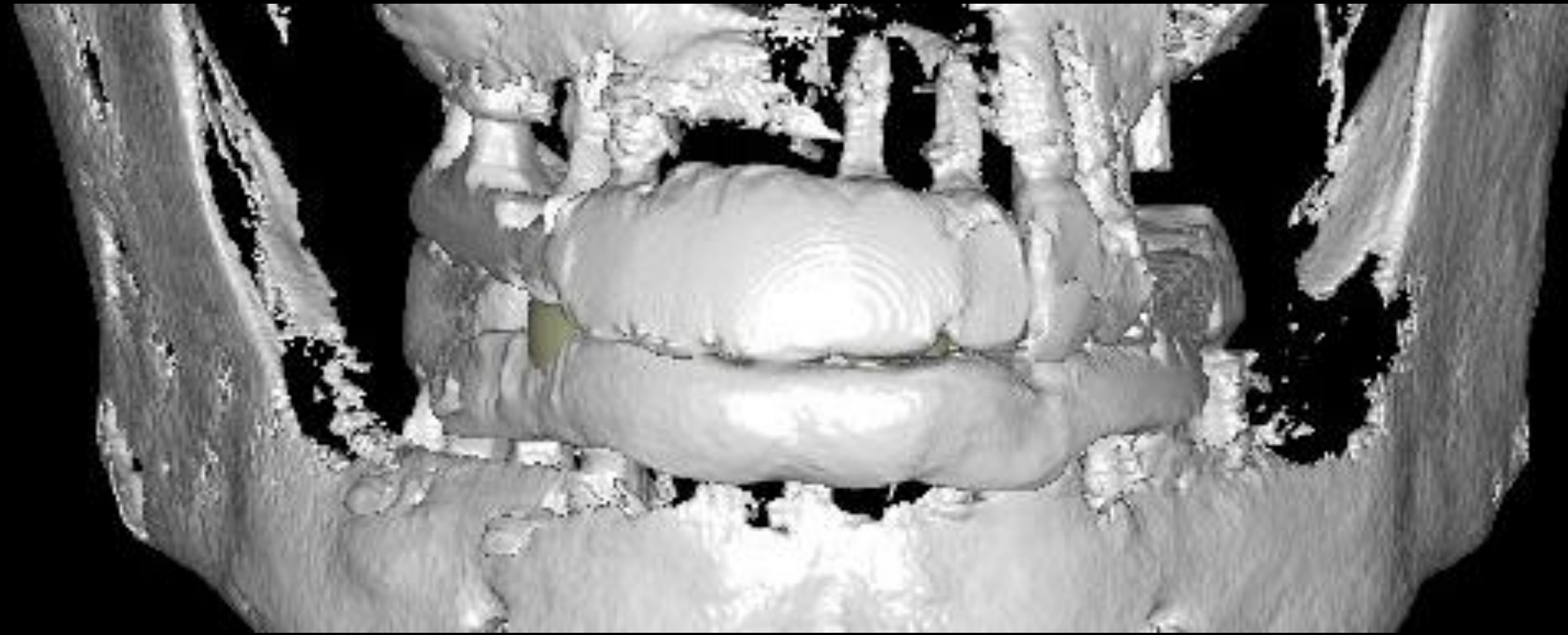
CT Dicom Stl

Cad Design



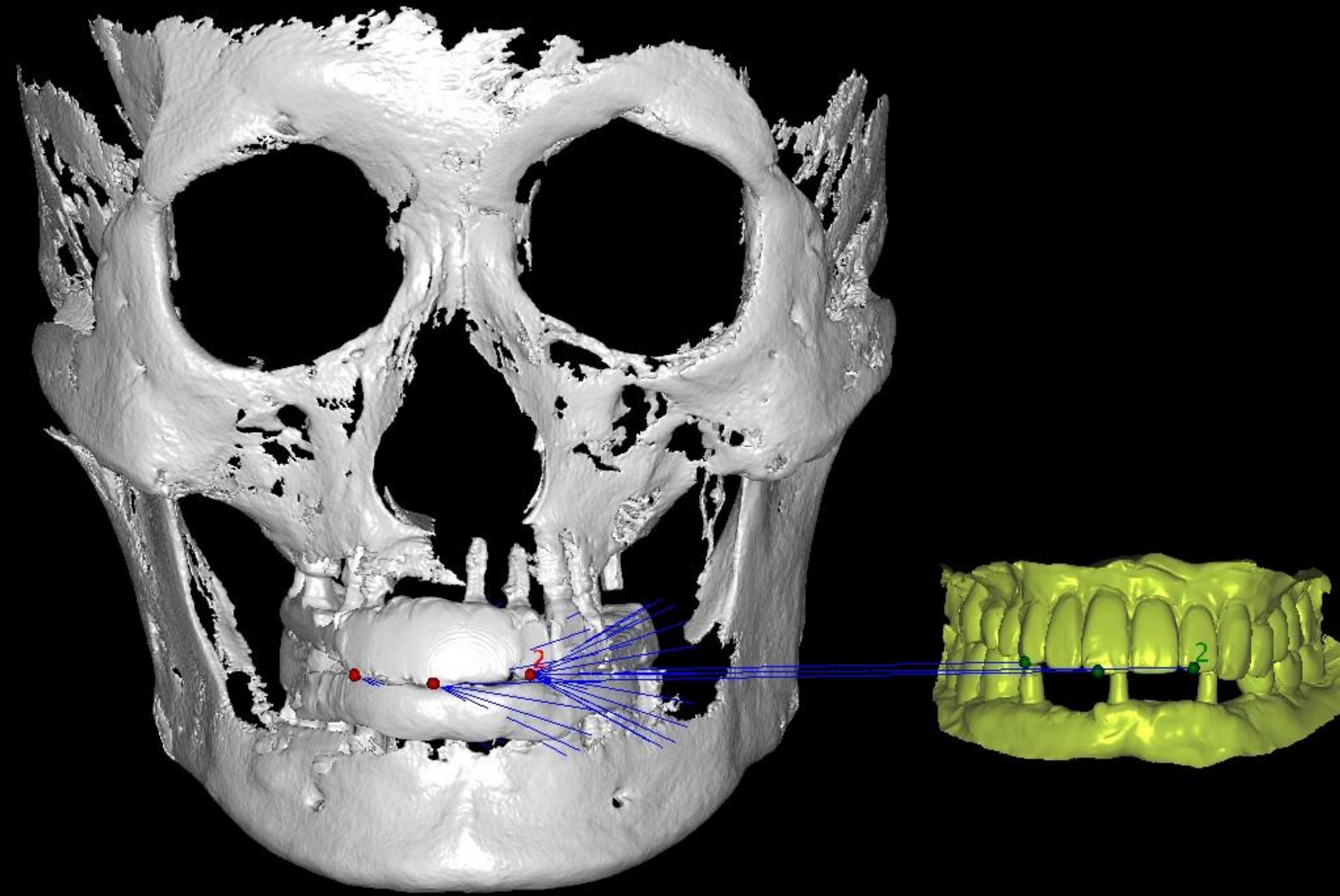
CT Dicom Stl

Cad Design



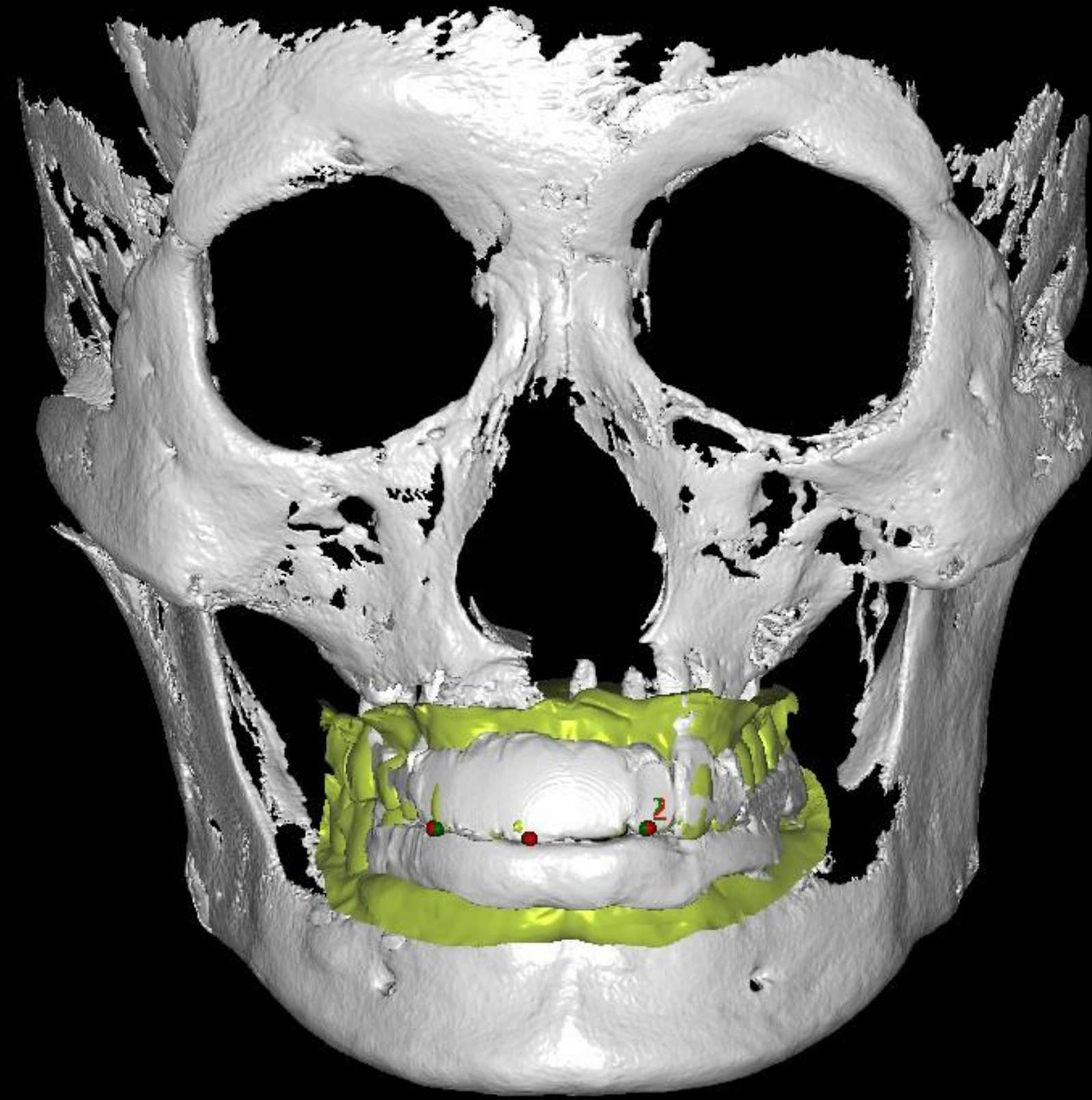
CT Dicom Stl

Cad Design



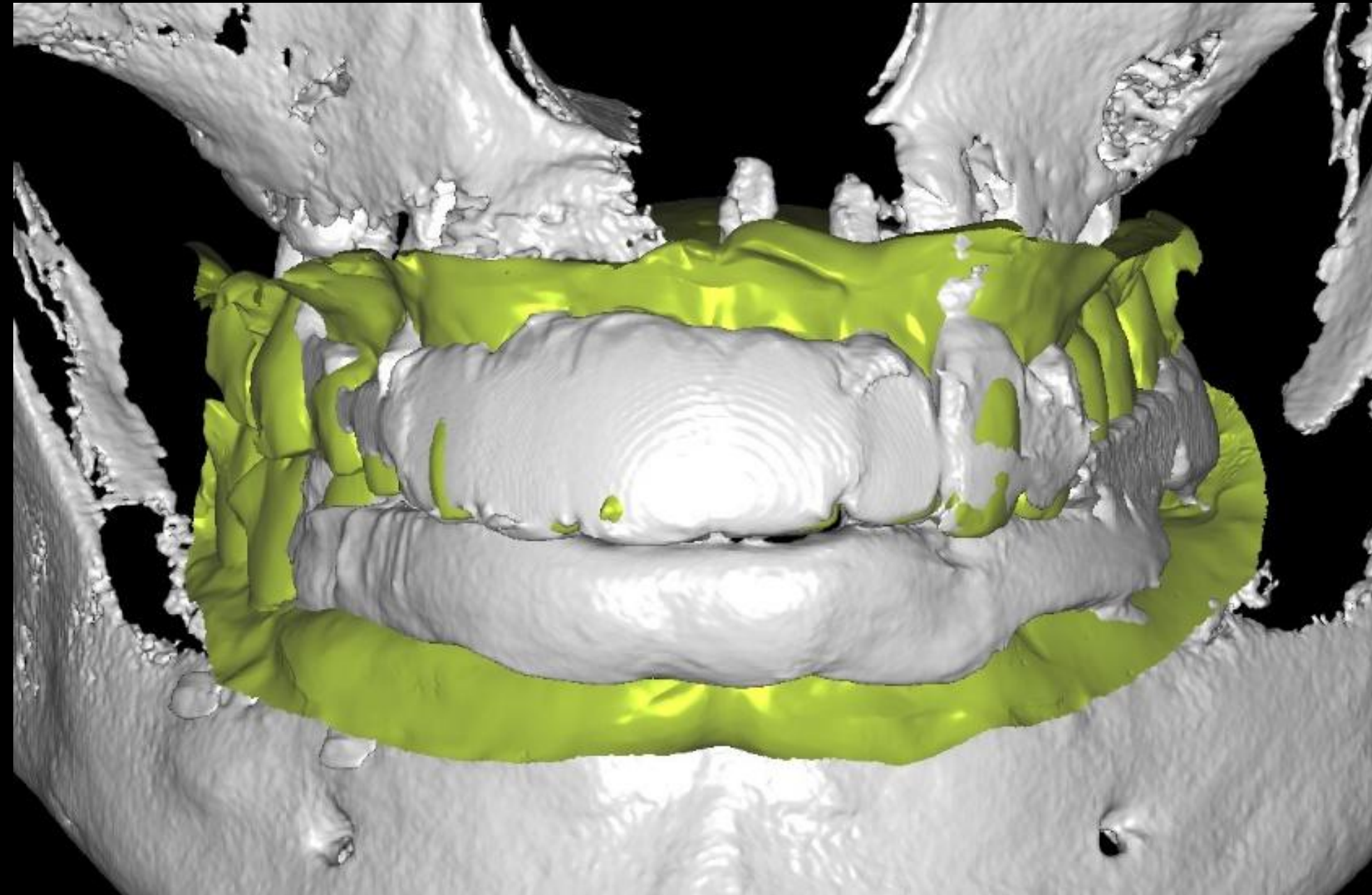
CT Dicom Stl

Cad Design



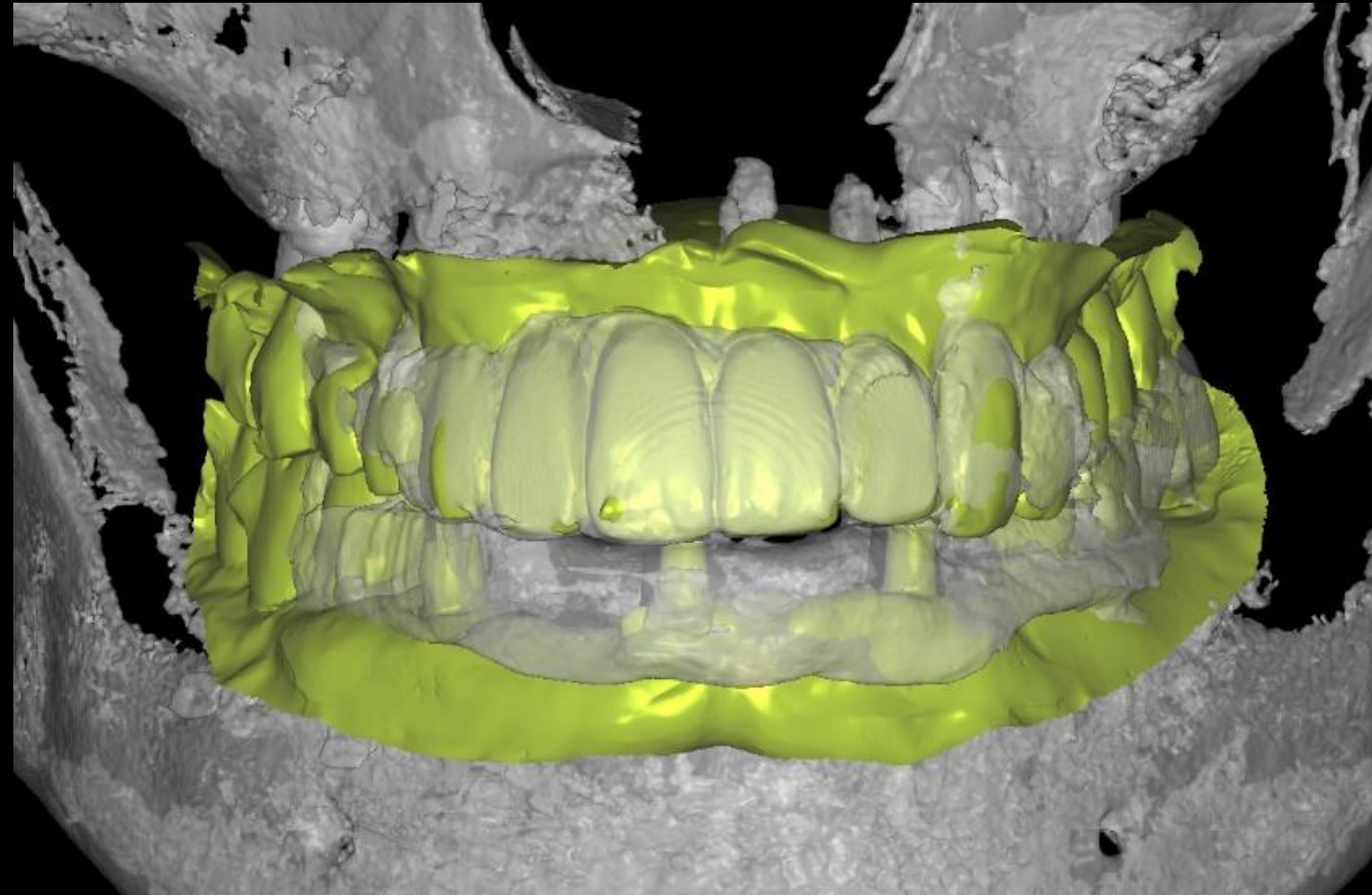
CT Dicom Stl

Cad Design



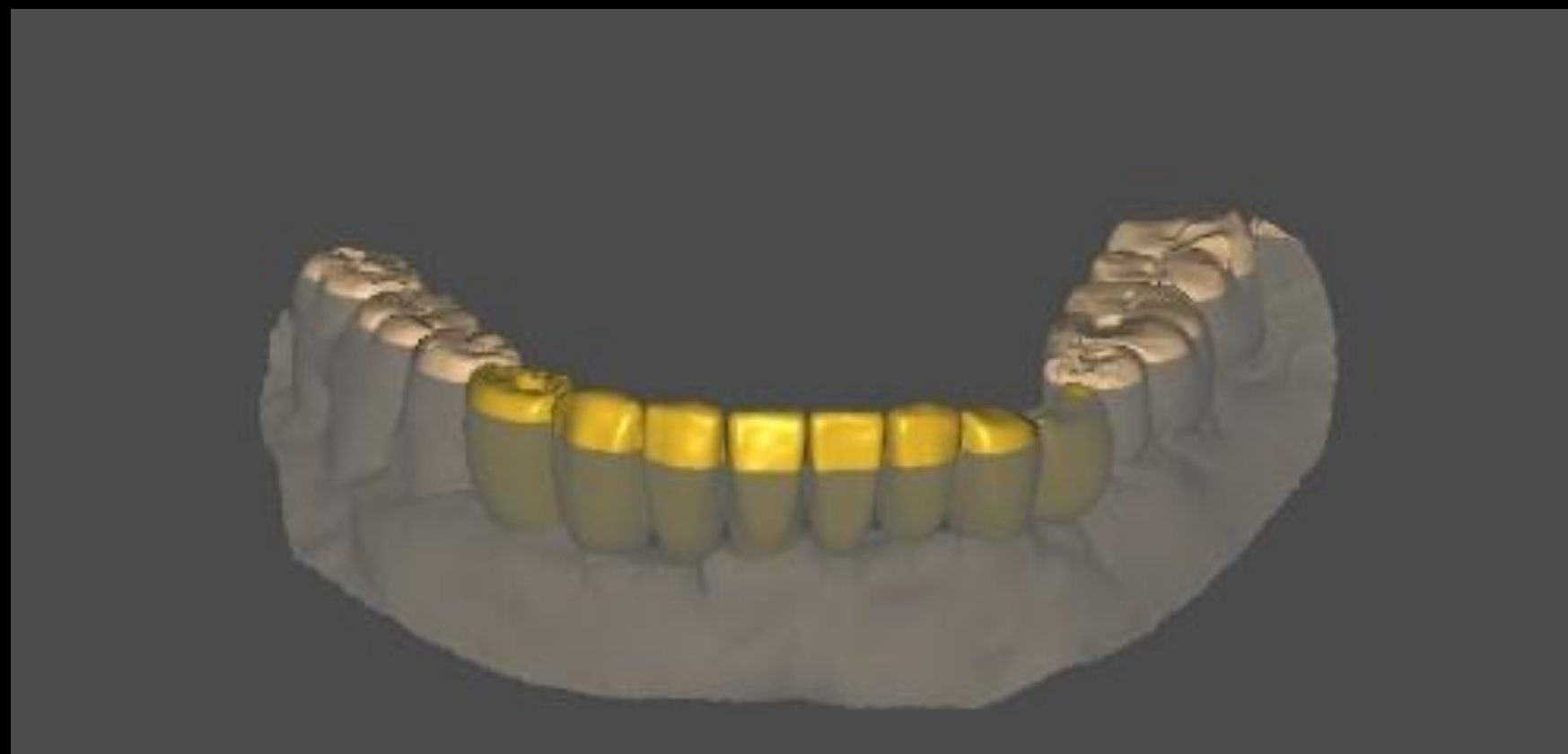
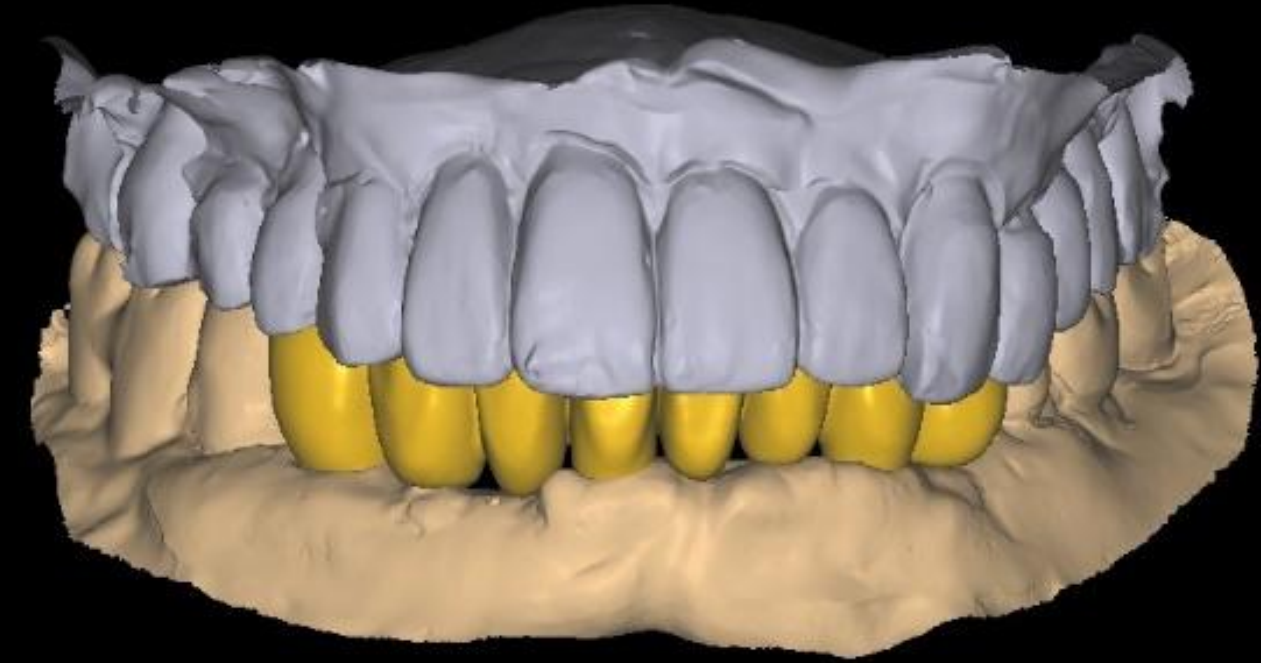
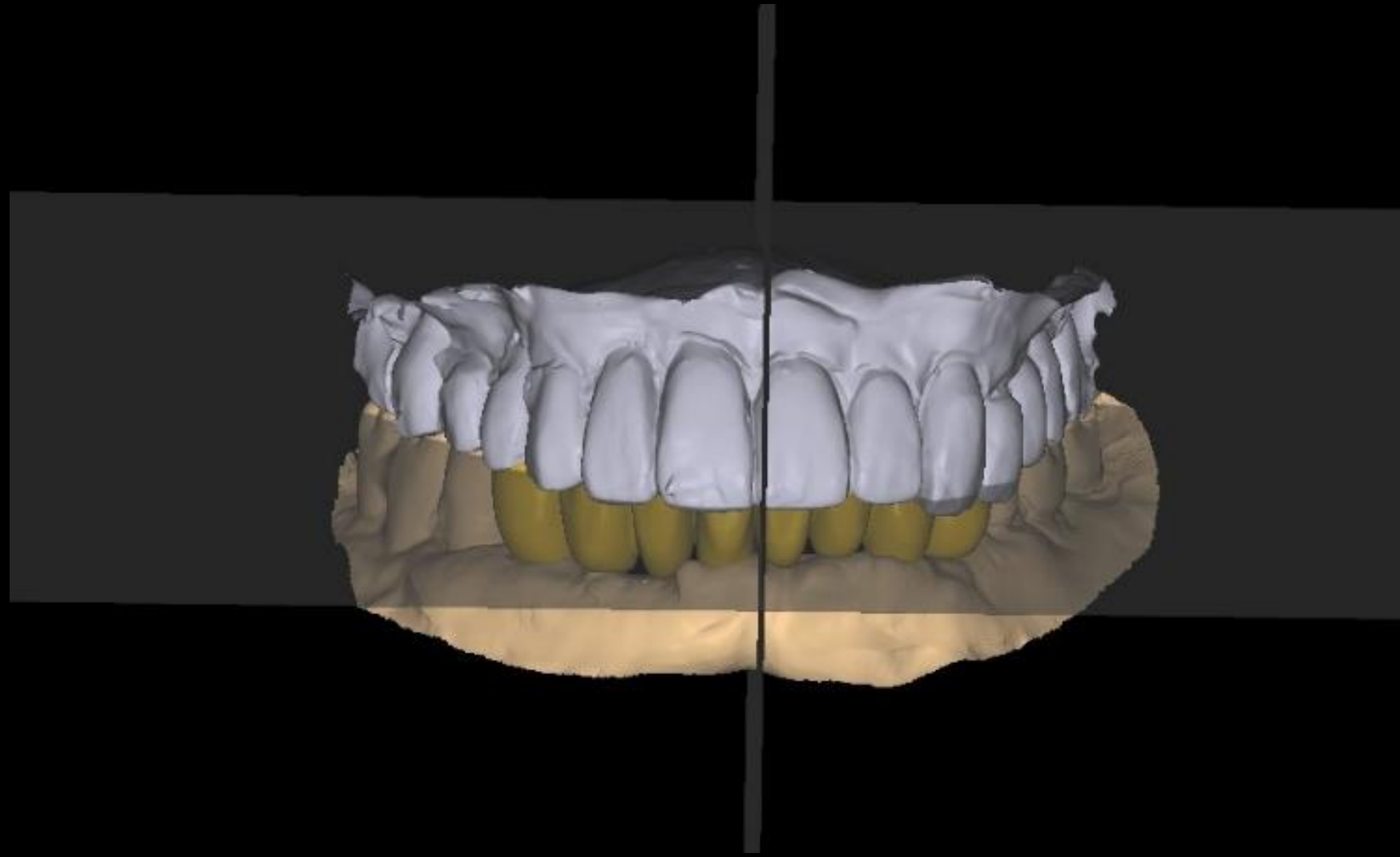
CT Dicom Stl

Cad Design

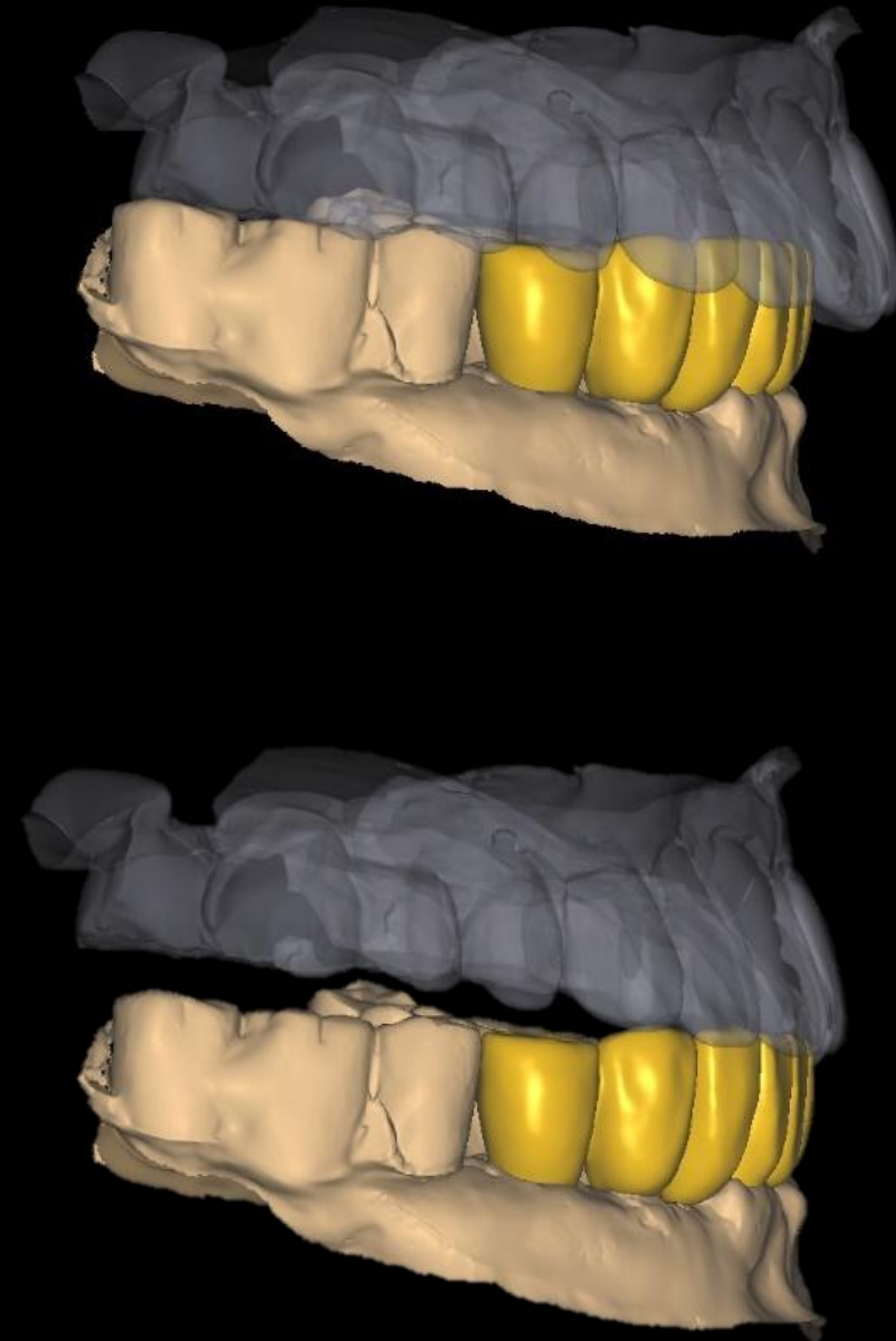


CT Dicom Stl

Cad Design

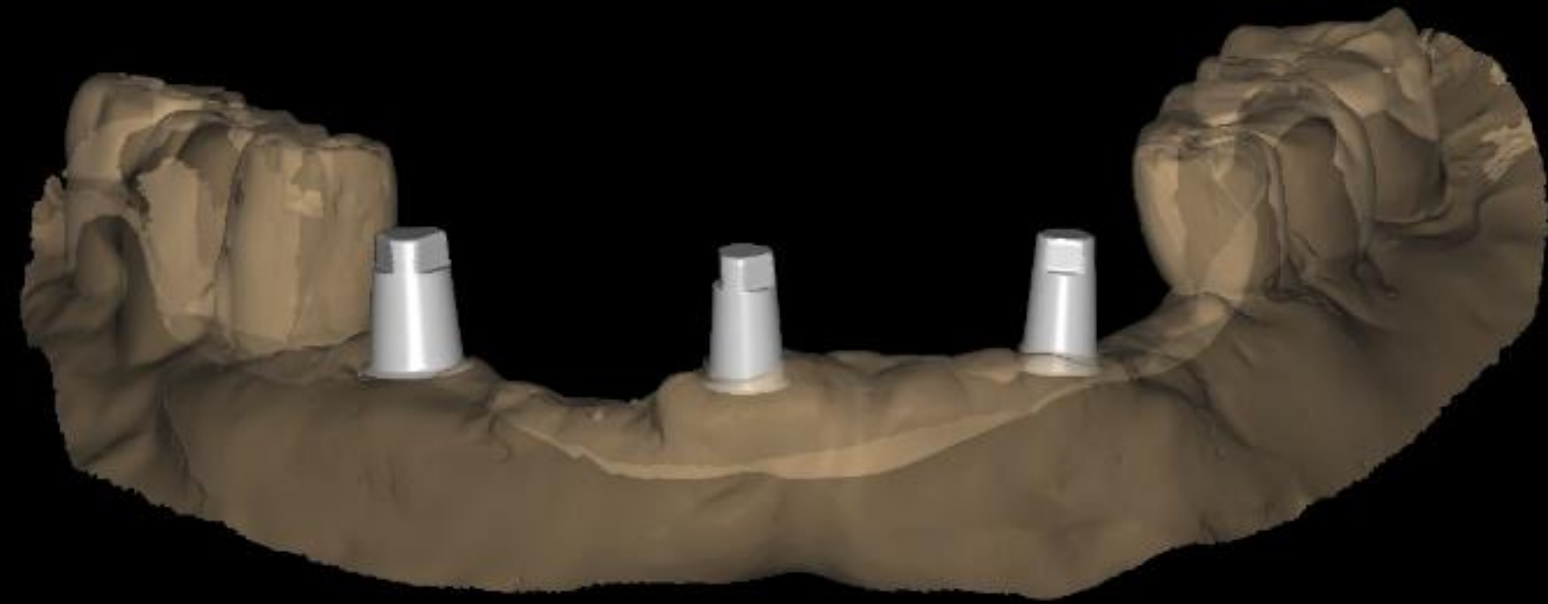


Cad Design

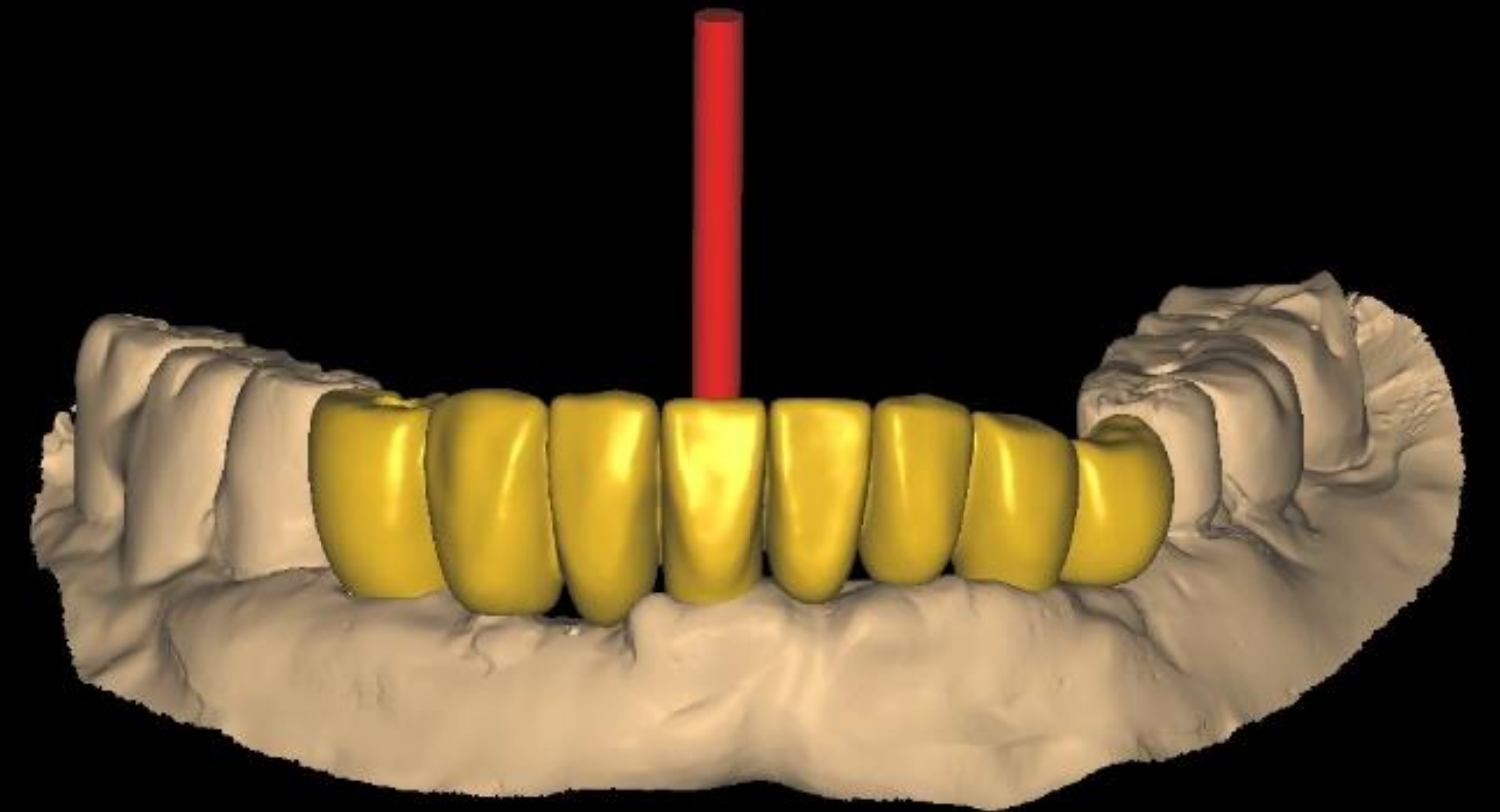
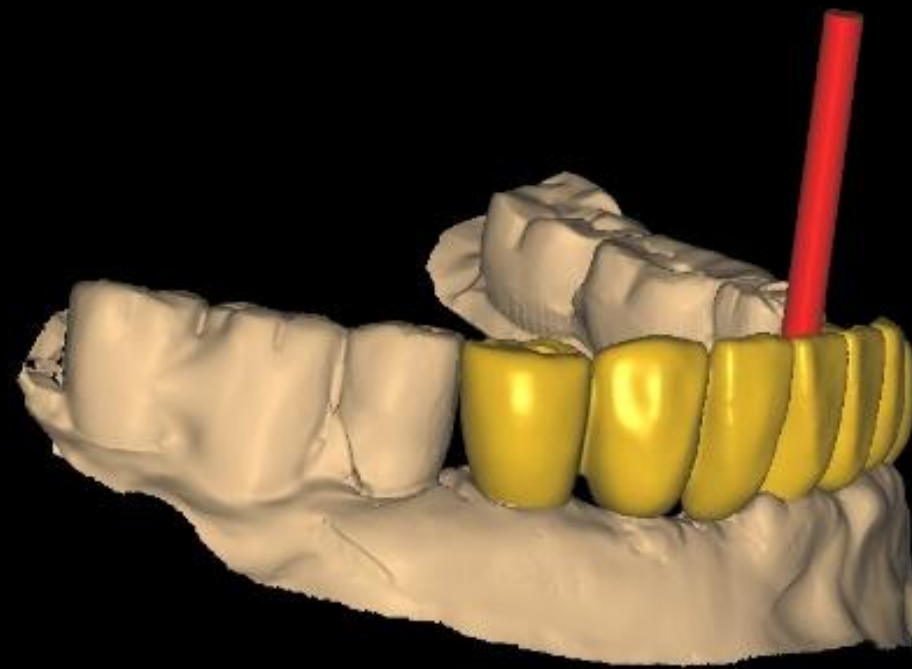
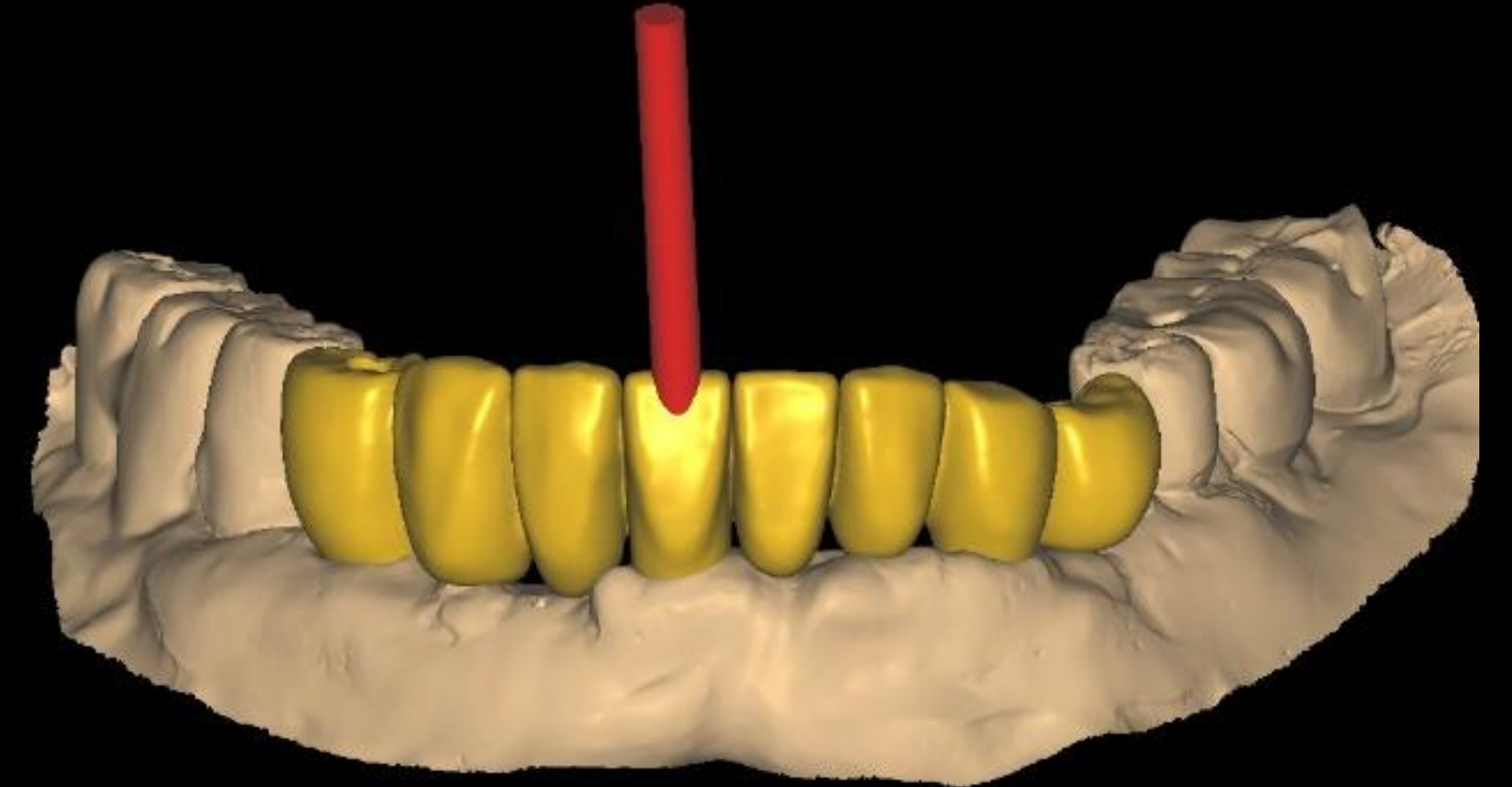
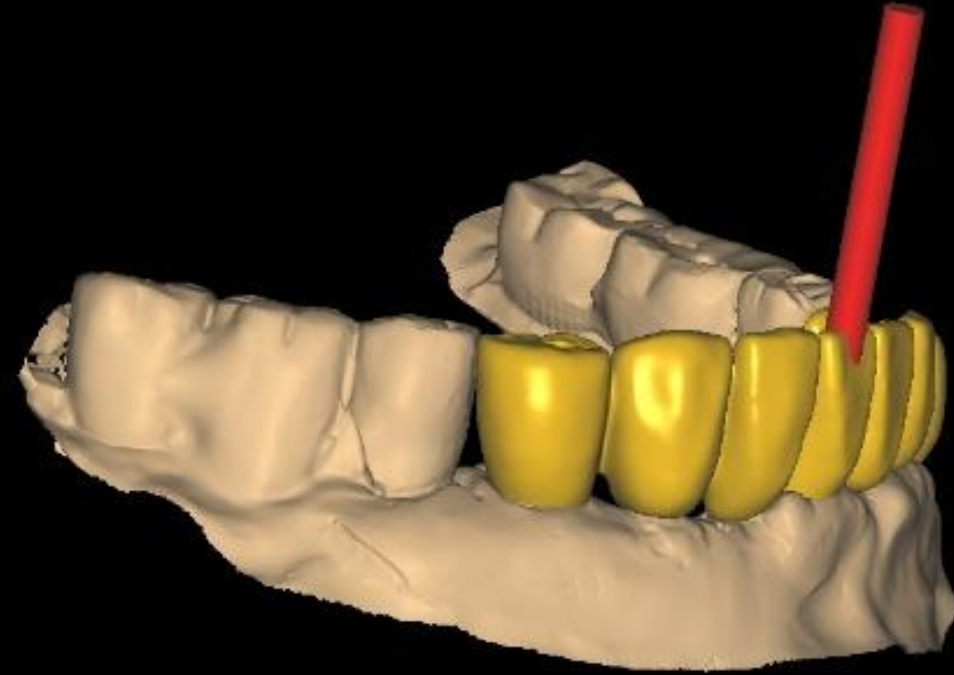


Virtual articulator

Cad Design



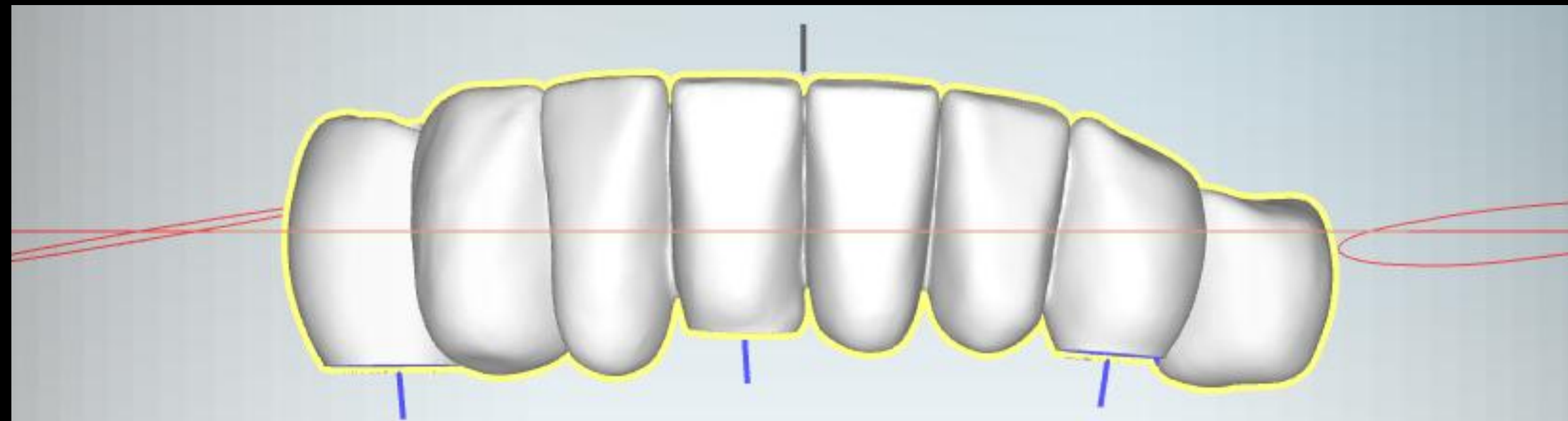
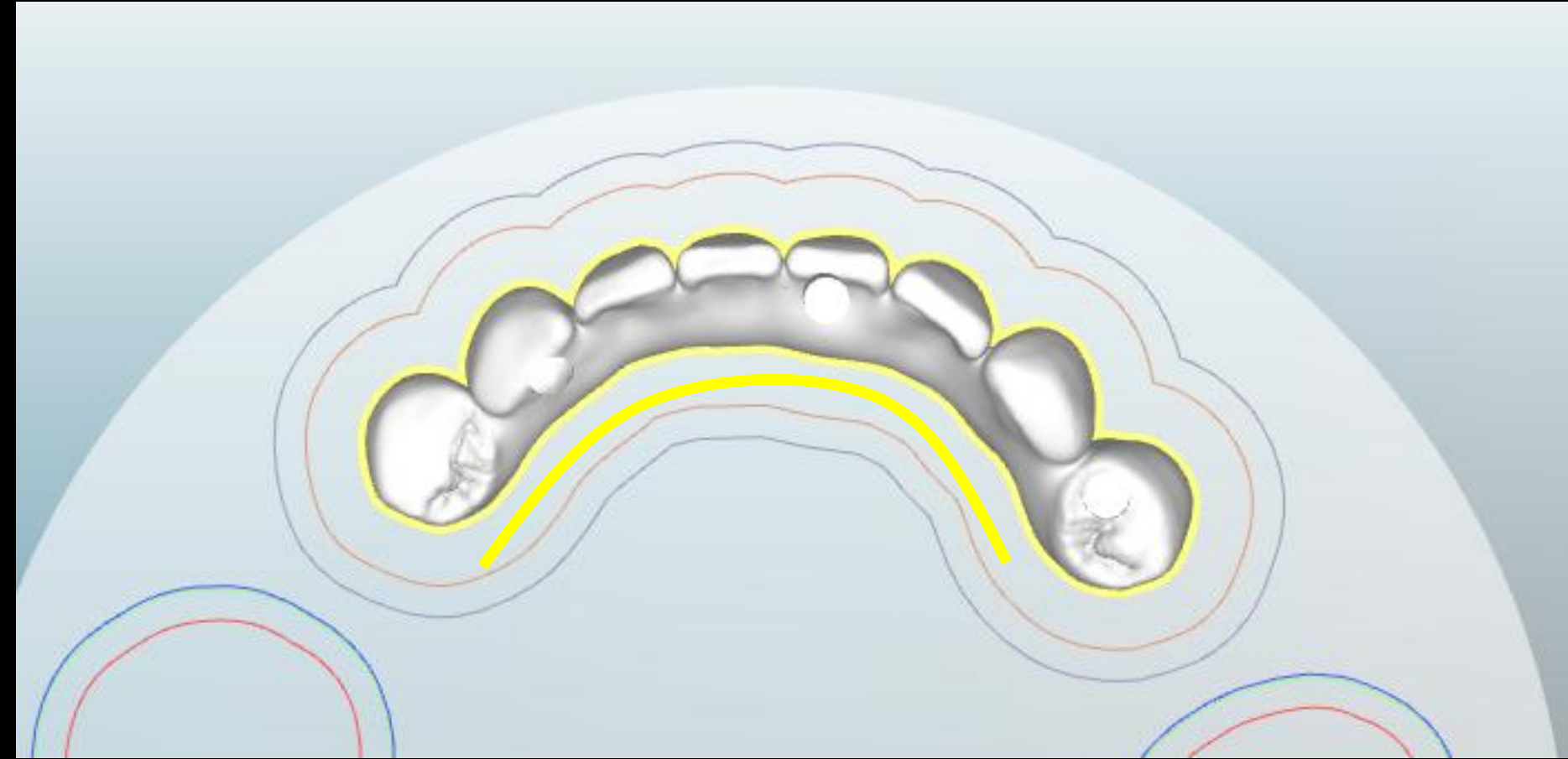
Tissue level
Ti base angled abutment



Shade Taking



Hyper Dent



Shine T block A2 22T

Coloring



Inner - White Opaque

Body- Shine A3

Occlusal - Trans violet

Glazing



Final Prosthesis

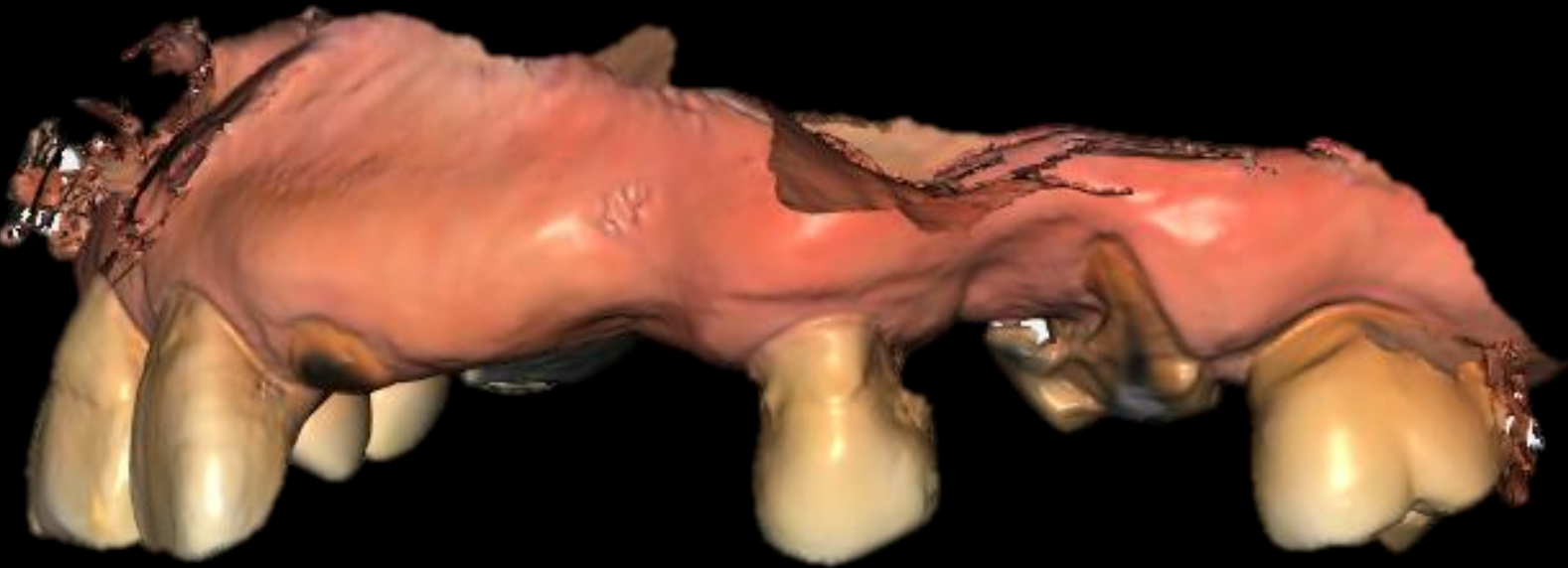




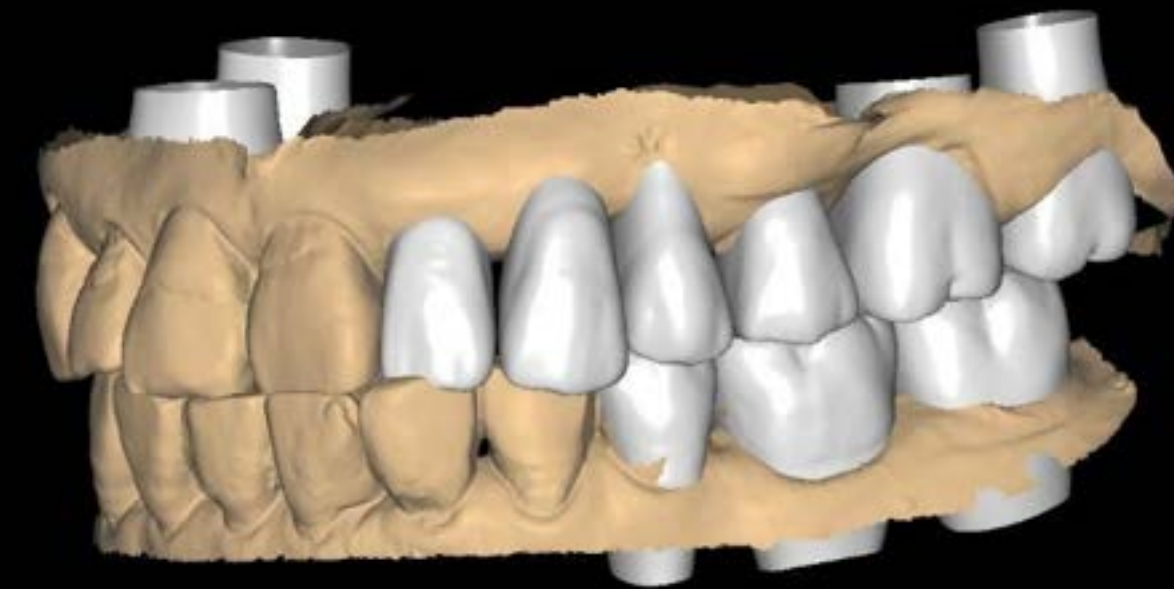
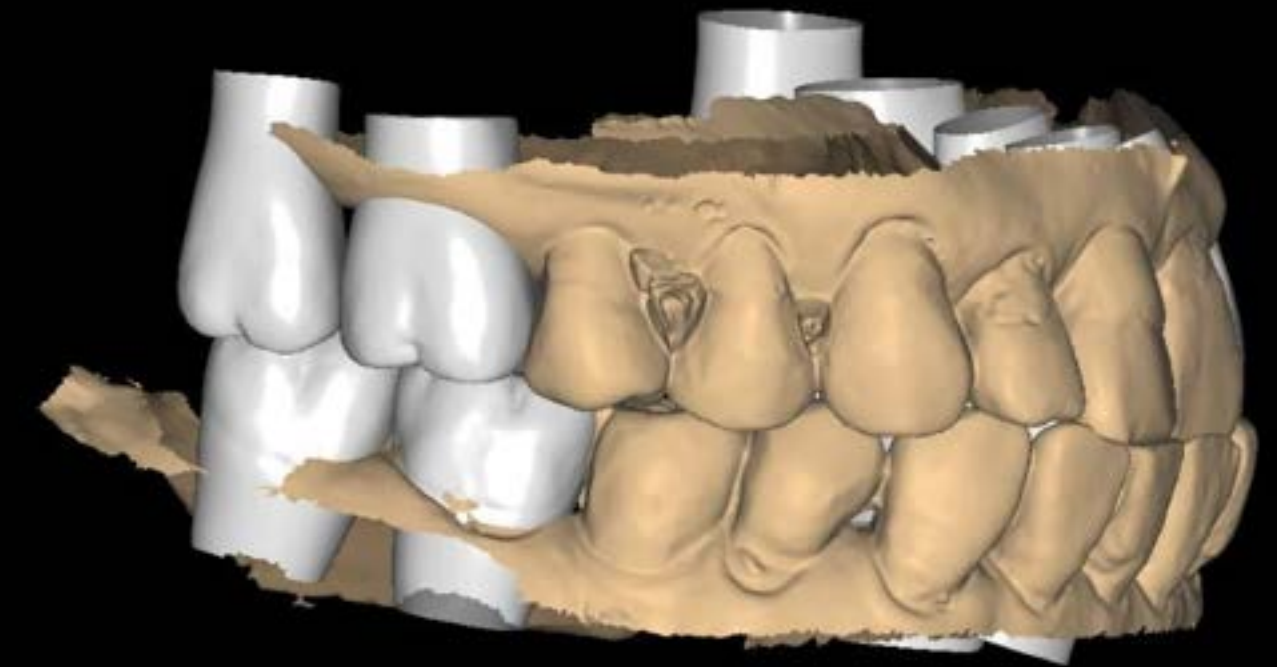
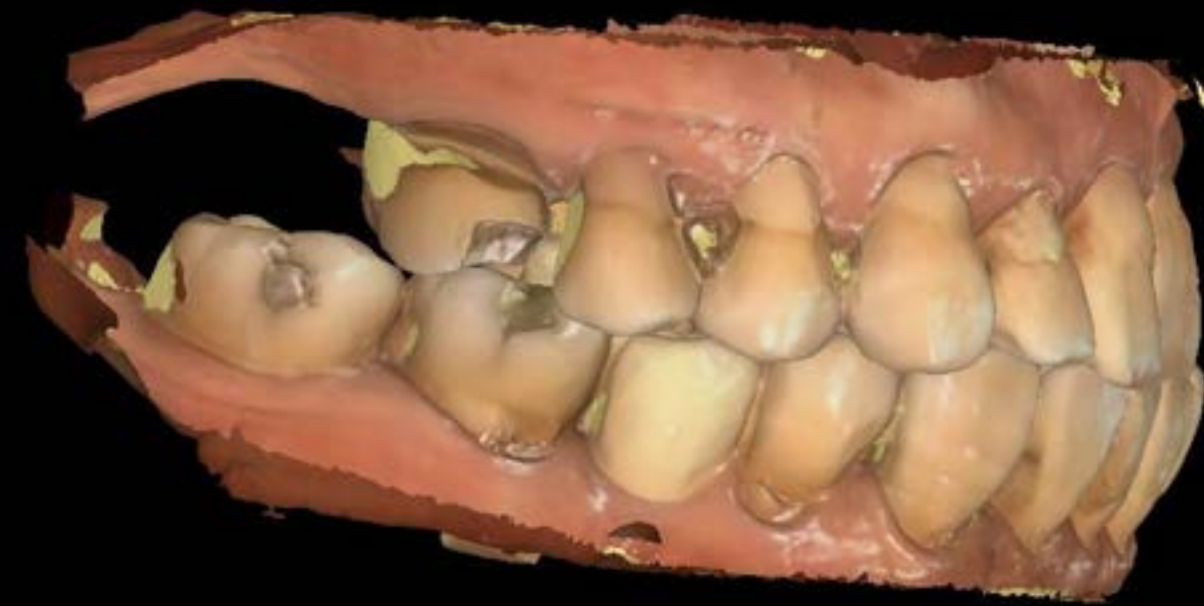
Pre-op (2024-03-06)



Intra Oral Scan (2024-02-21)

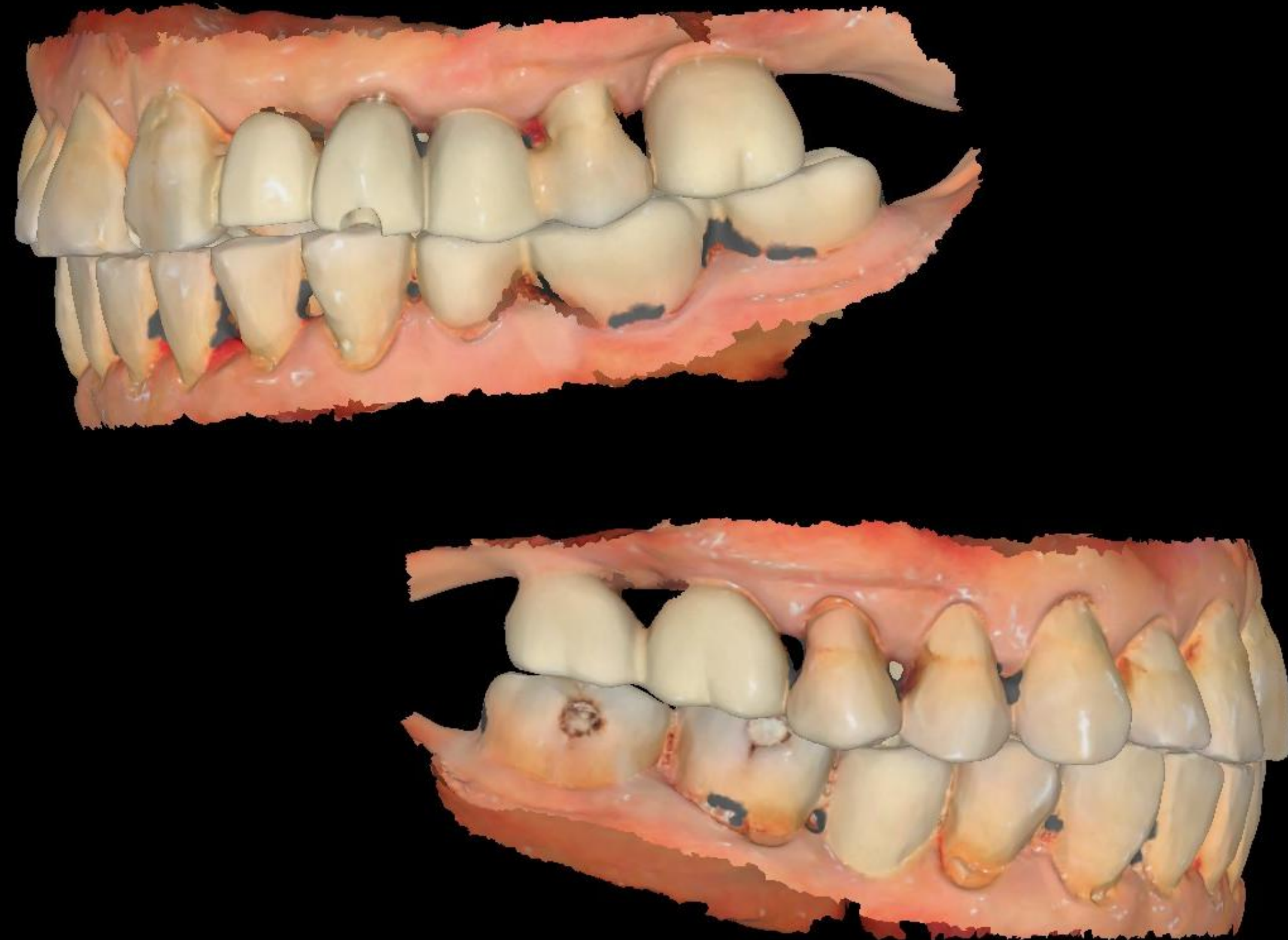


Pre Op

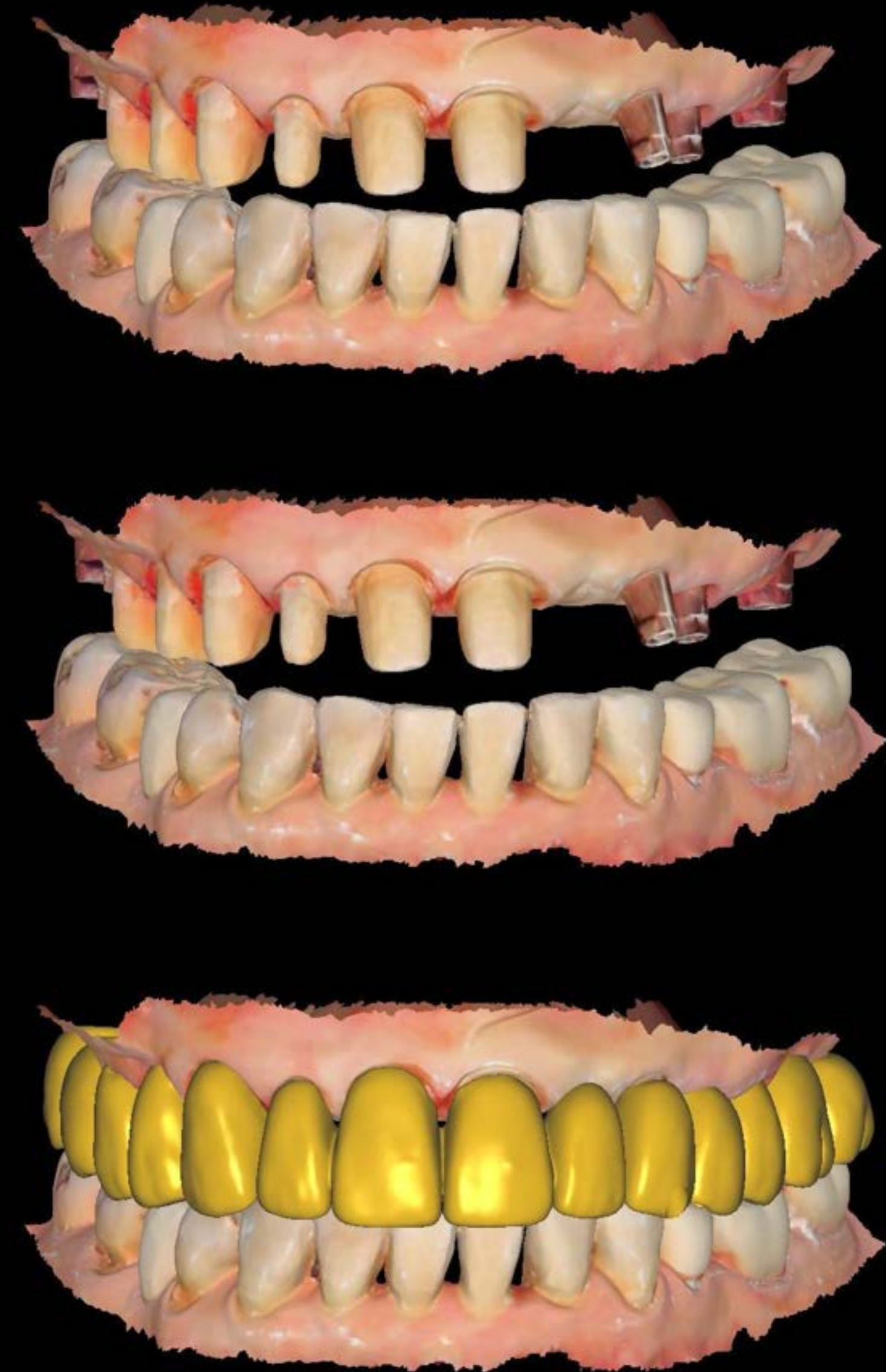


Conducted patient consulting using virtual set-up

Pre Op



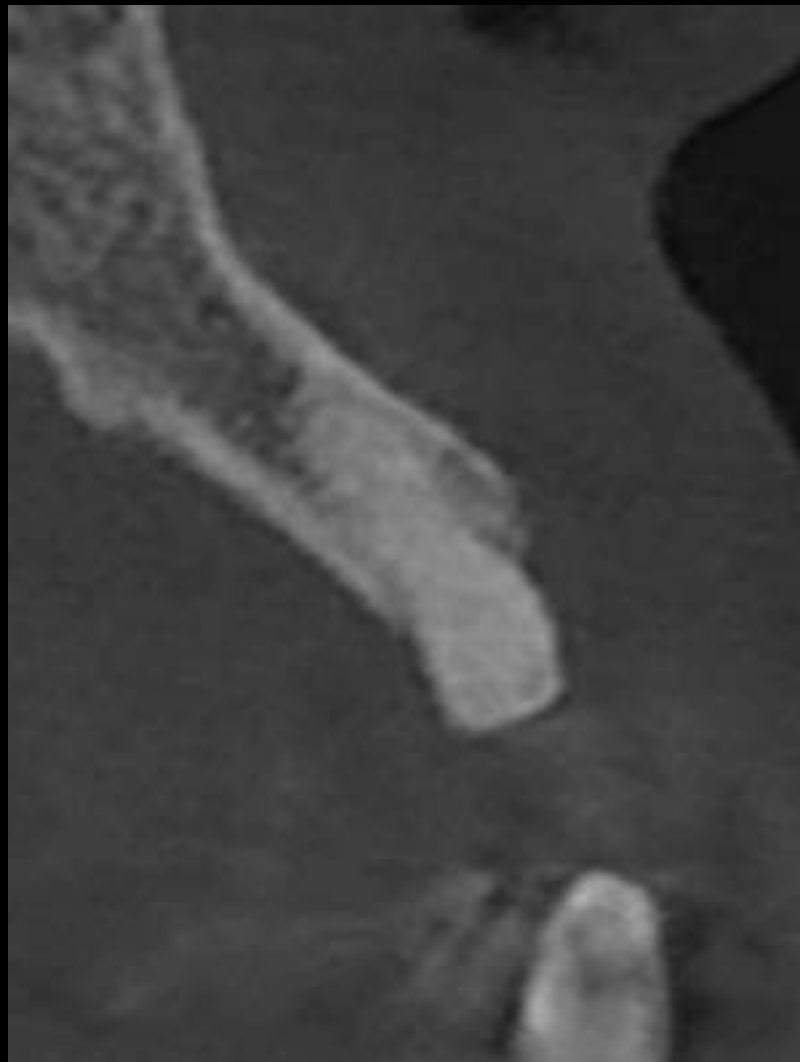
Posterior I.s & 1st provisional Crown



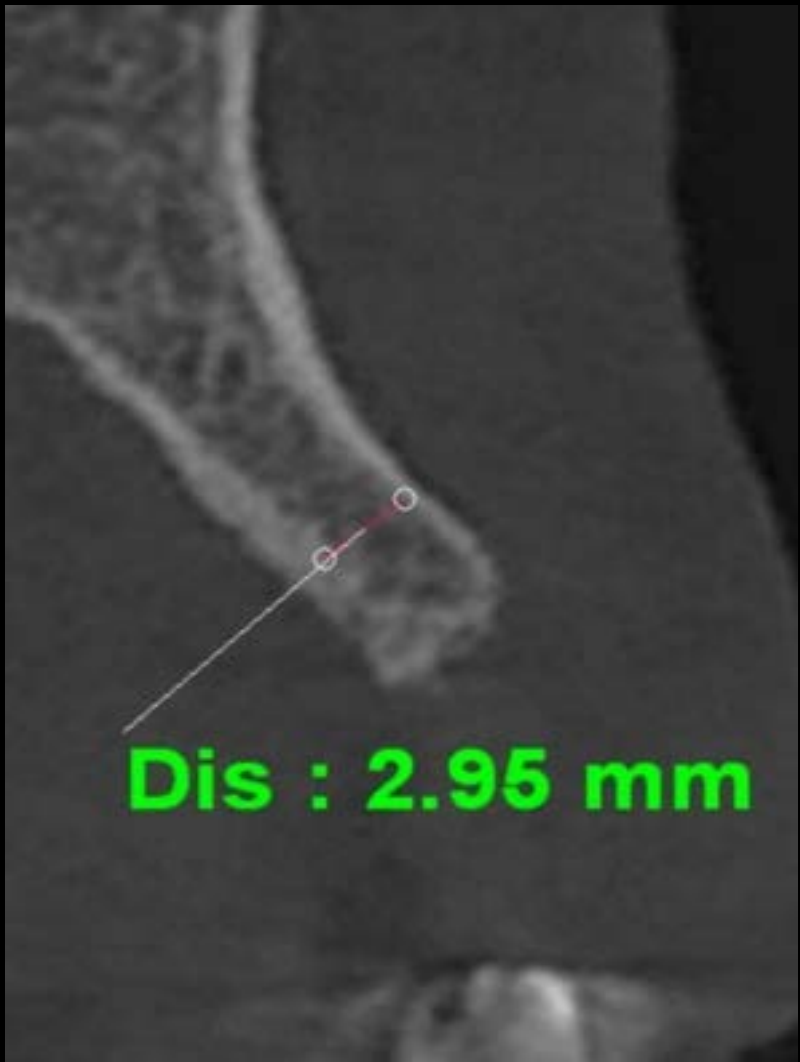
Upperjaw Full 2nd provisional crown (VD 2mm up)

Pre-op CT (2024-02-21)

Post-op CT (2024-03-06)



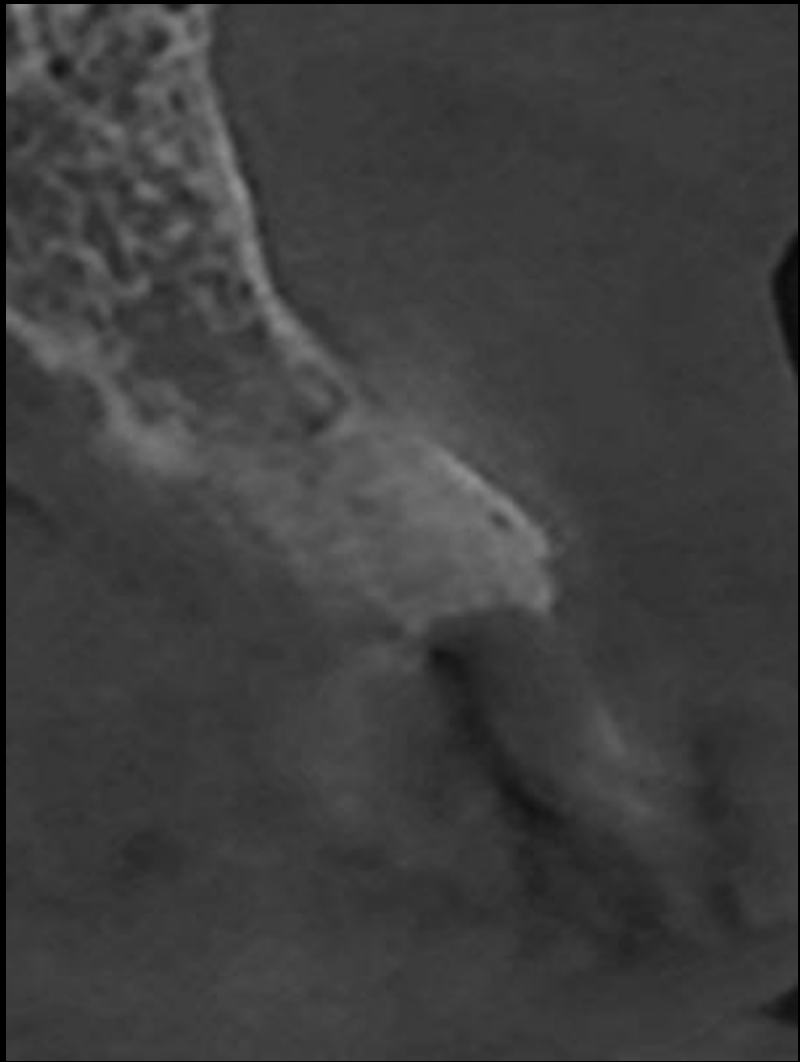
#22



#23



#24



#22



#23



#24

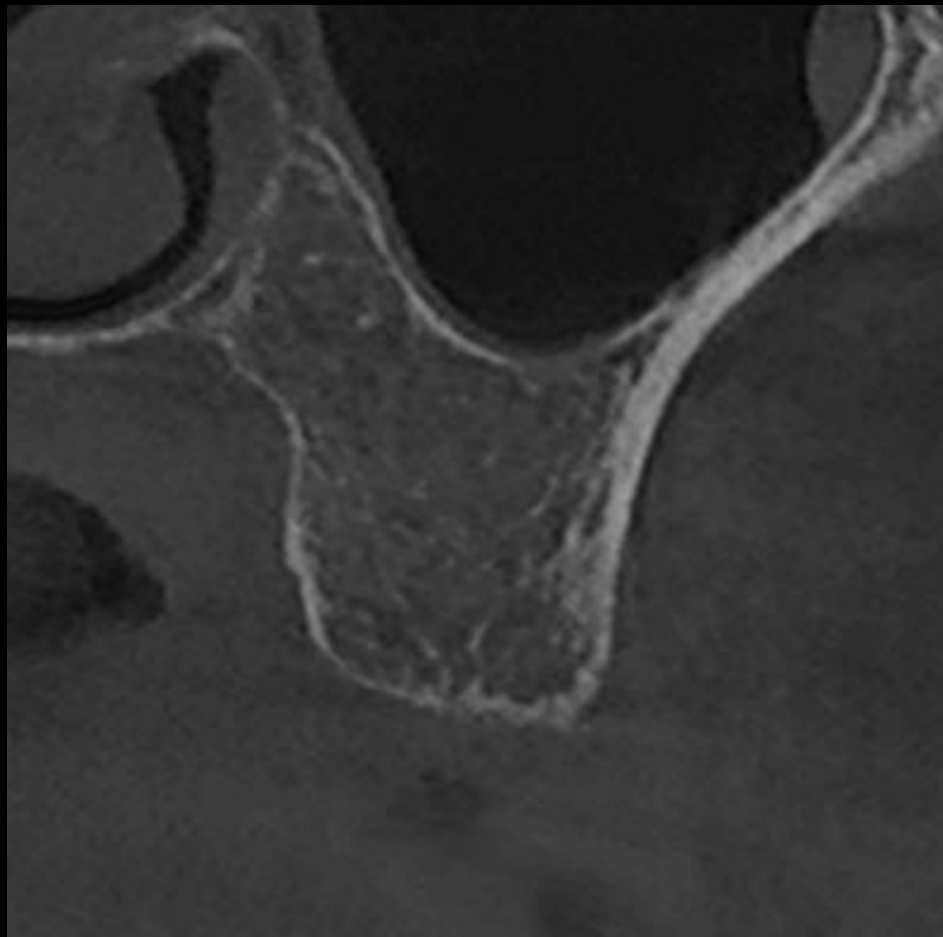
#22,23,24 Post op (2024-03-08)



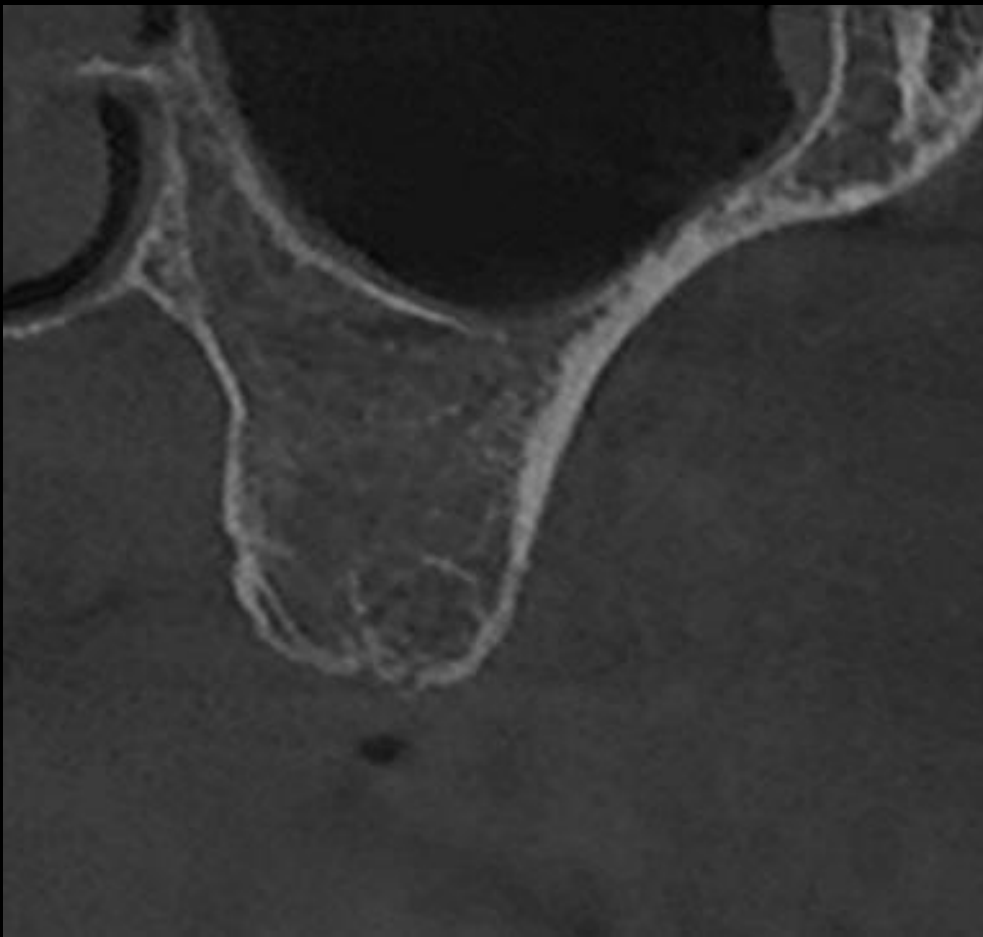
#16,17,26 Post-op (2024-05-23)



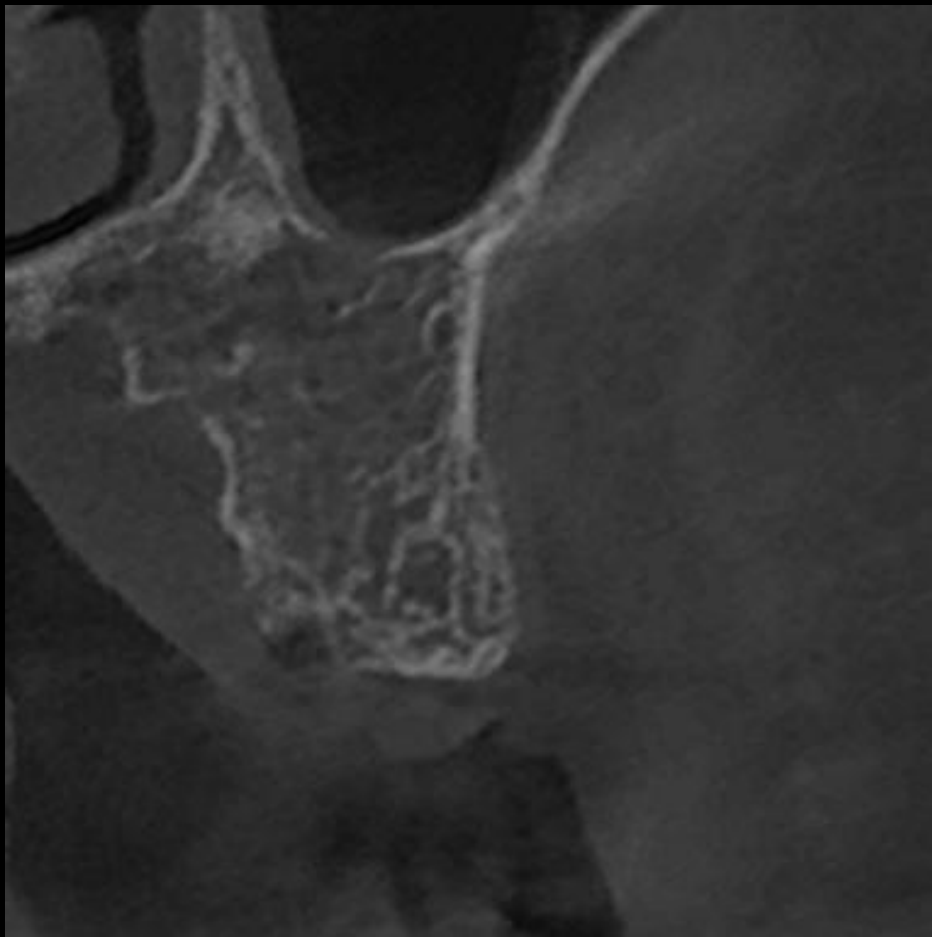
Pre-op CT (2024-03-06)



#16

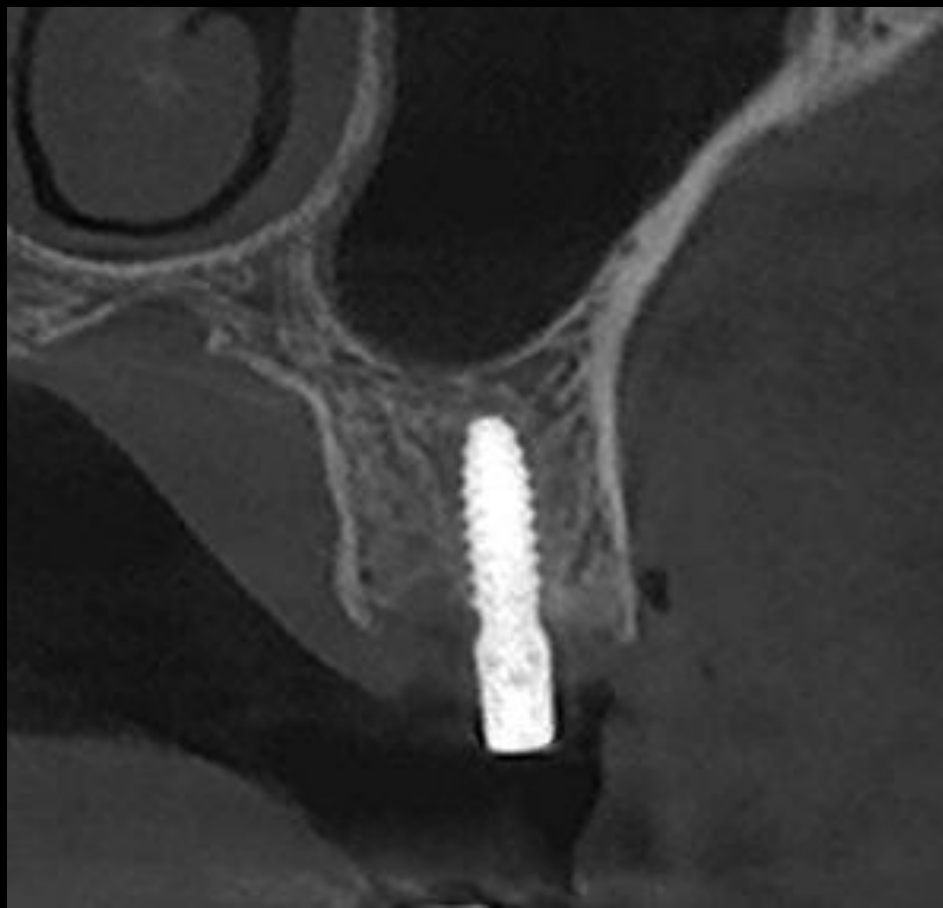


#17

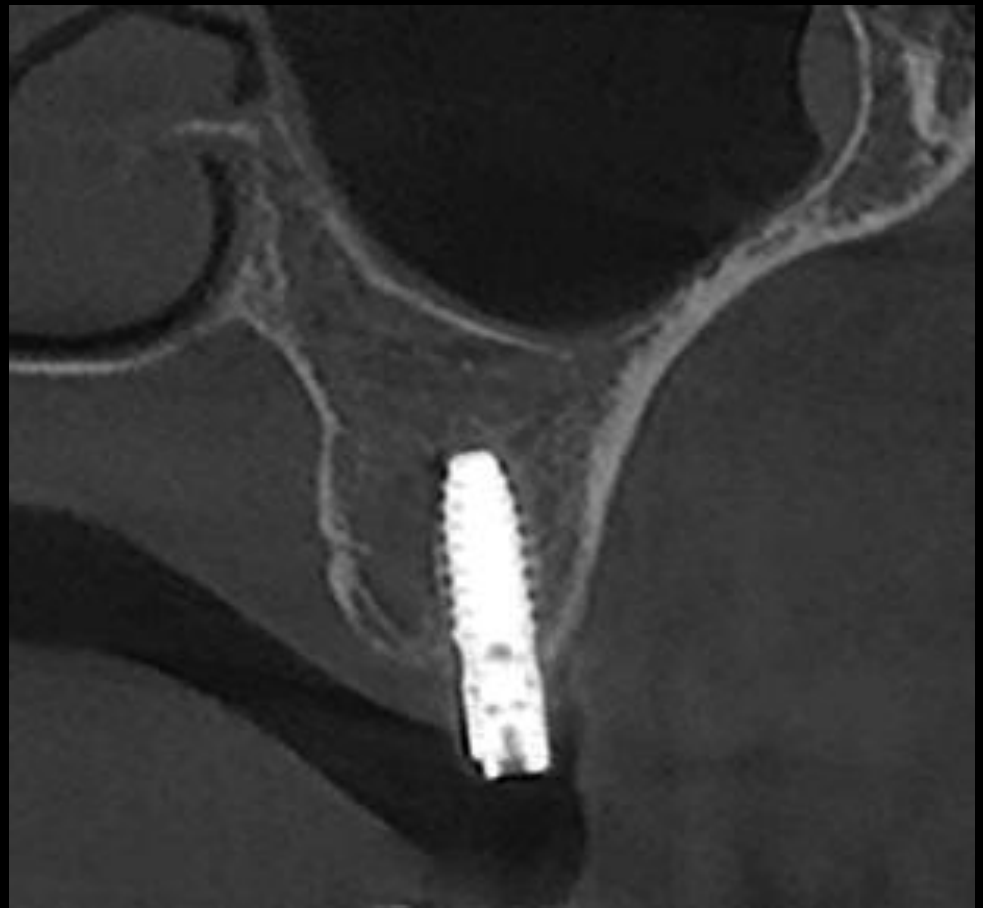


#26

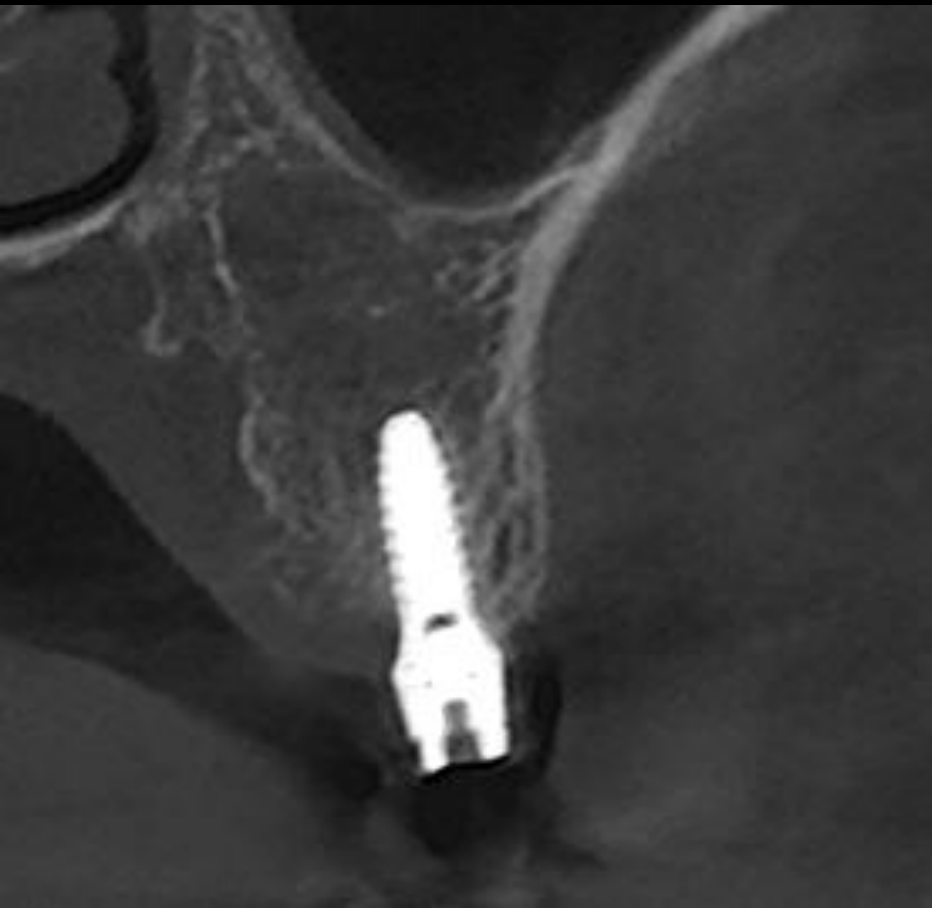
Post-op CT (2024-05-23)



#16



#17



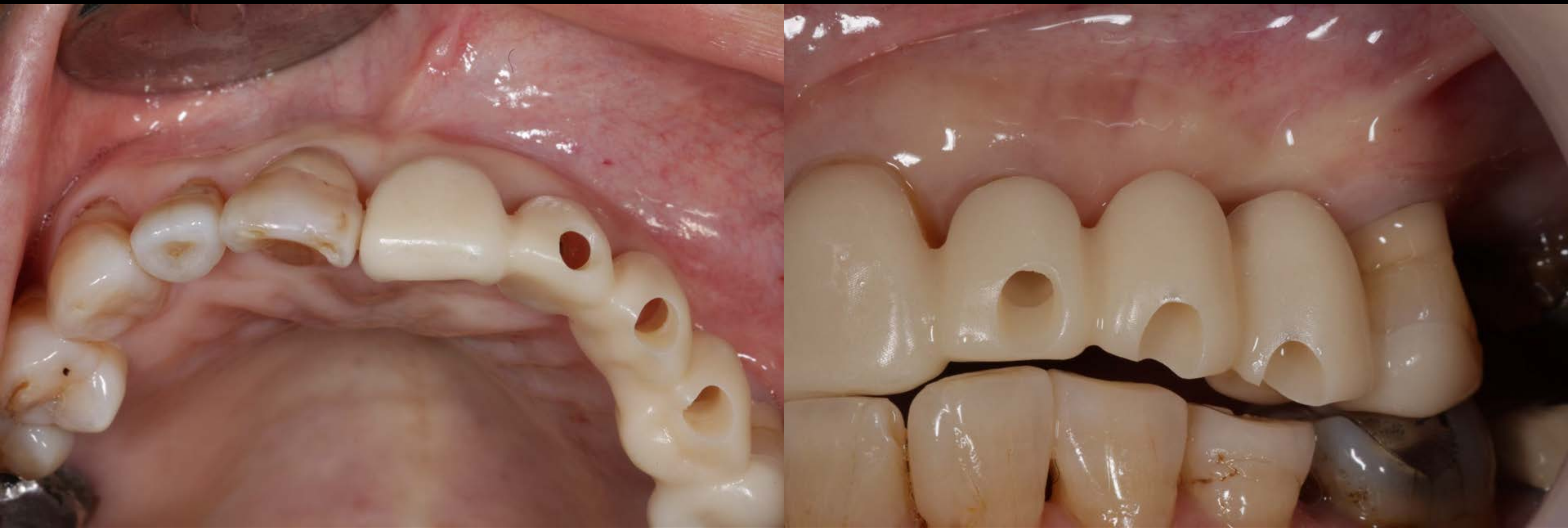
#26

Final prosthesis (2025-06-16)



Pre-op (2024-03-06)

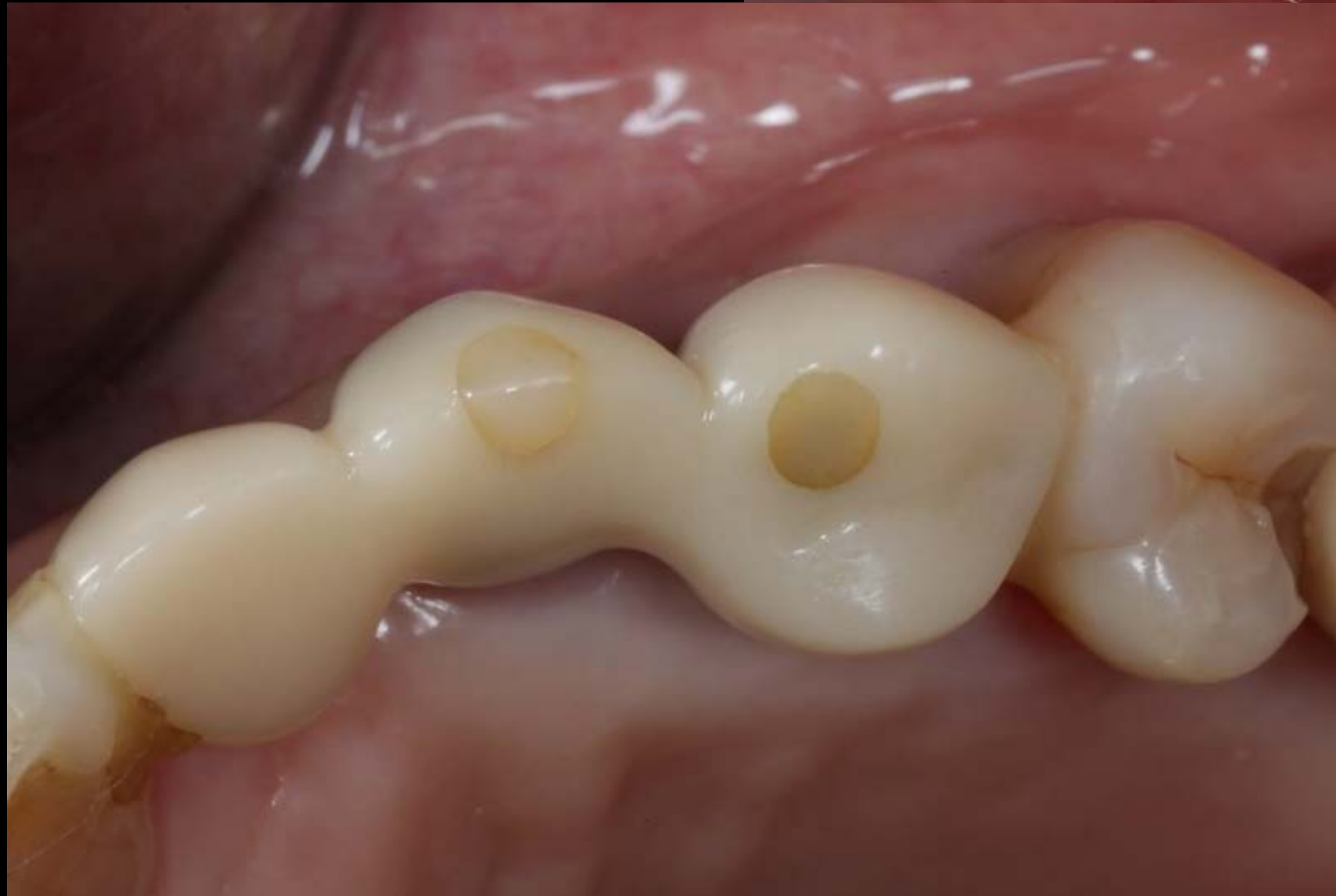




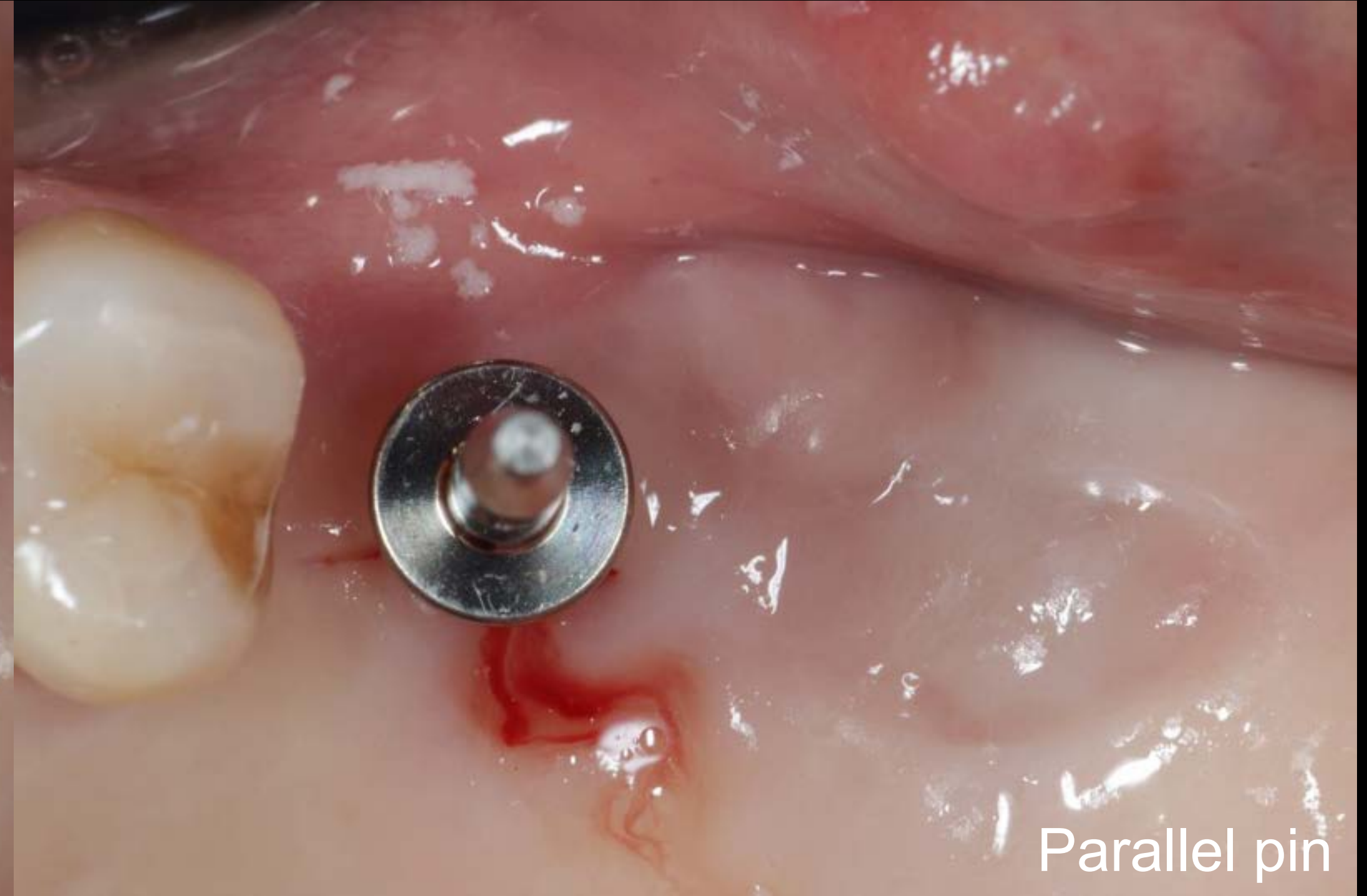
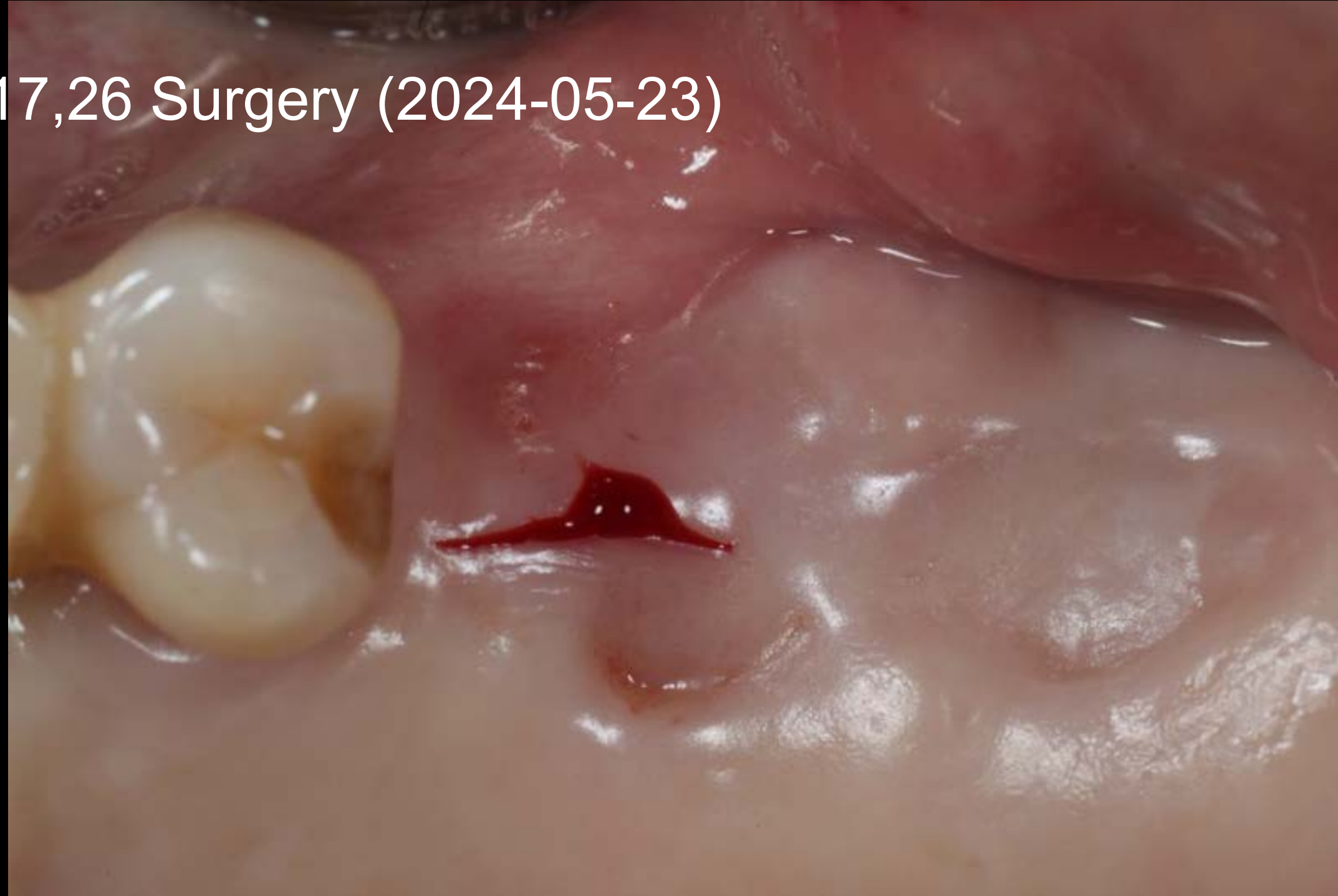
#22,23,24 Post-op (2024-03-06)



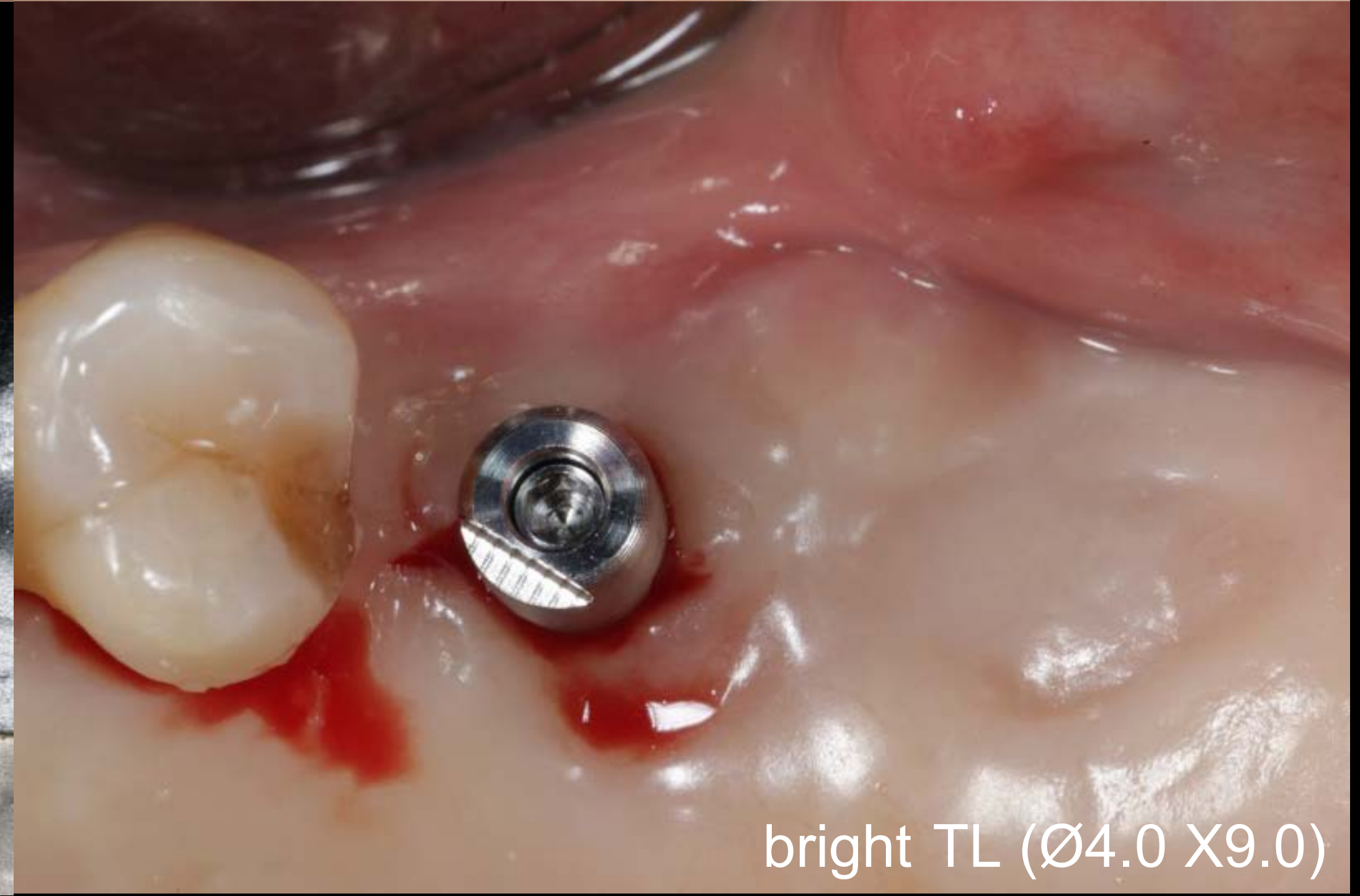
#22,23,24 Healing : 2 months (2024-09-06)



#16,17,26 Surgery (2024-05-23)

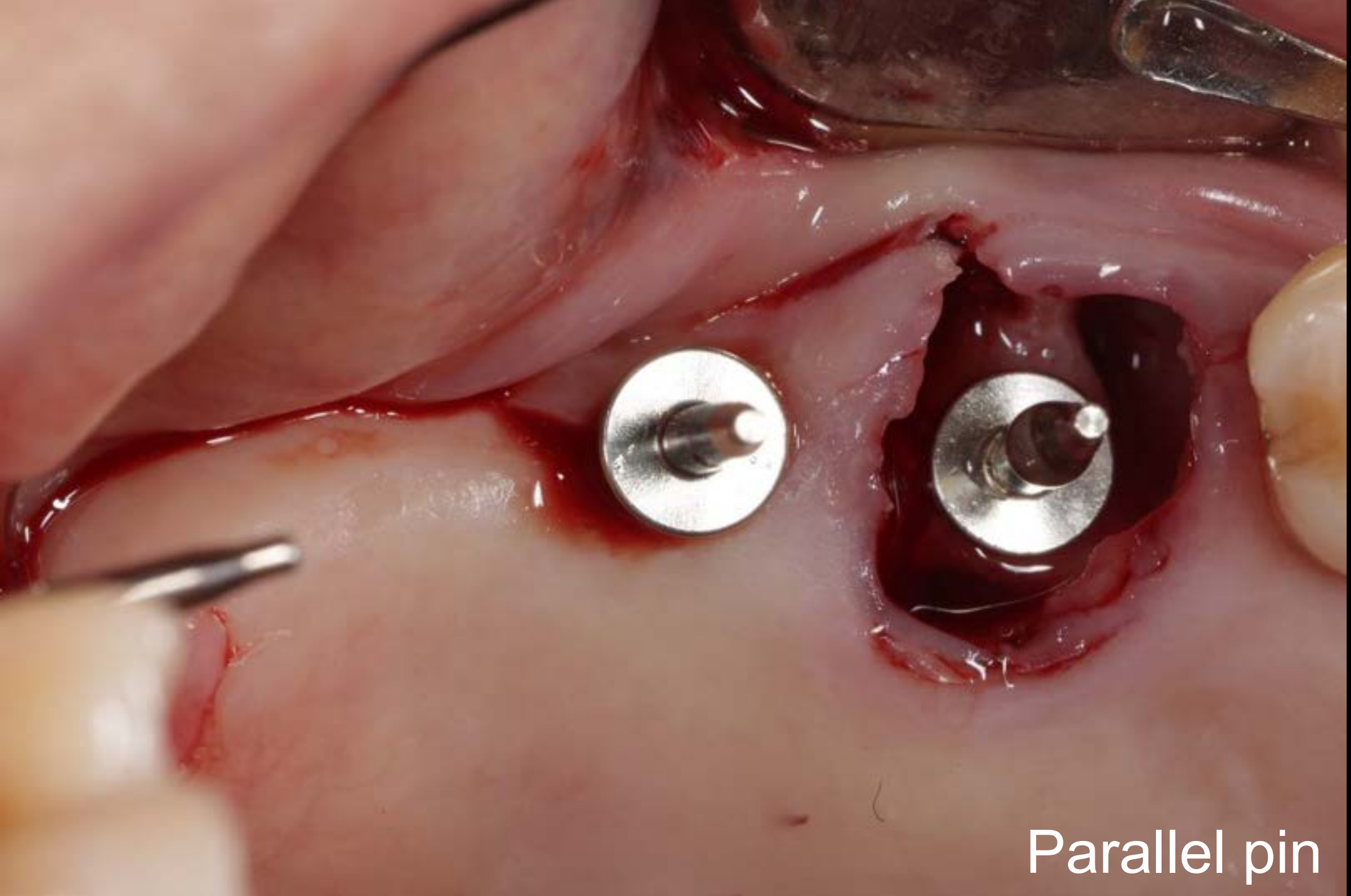
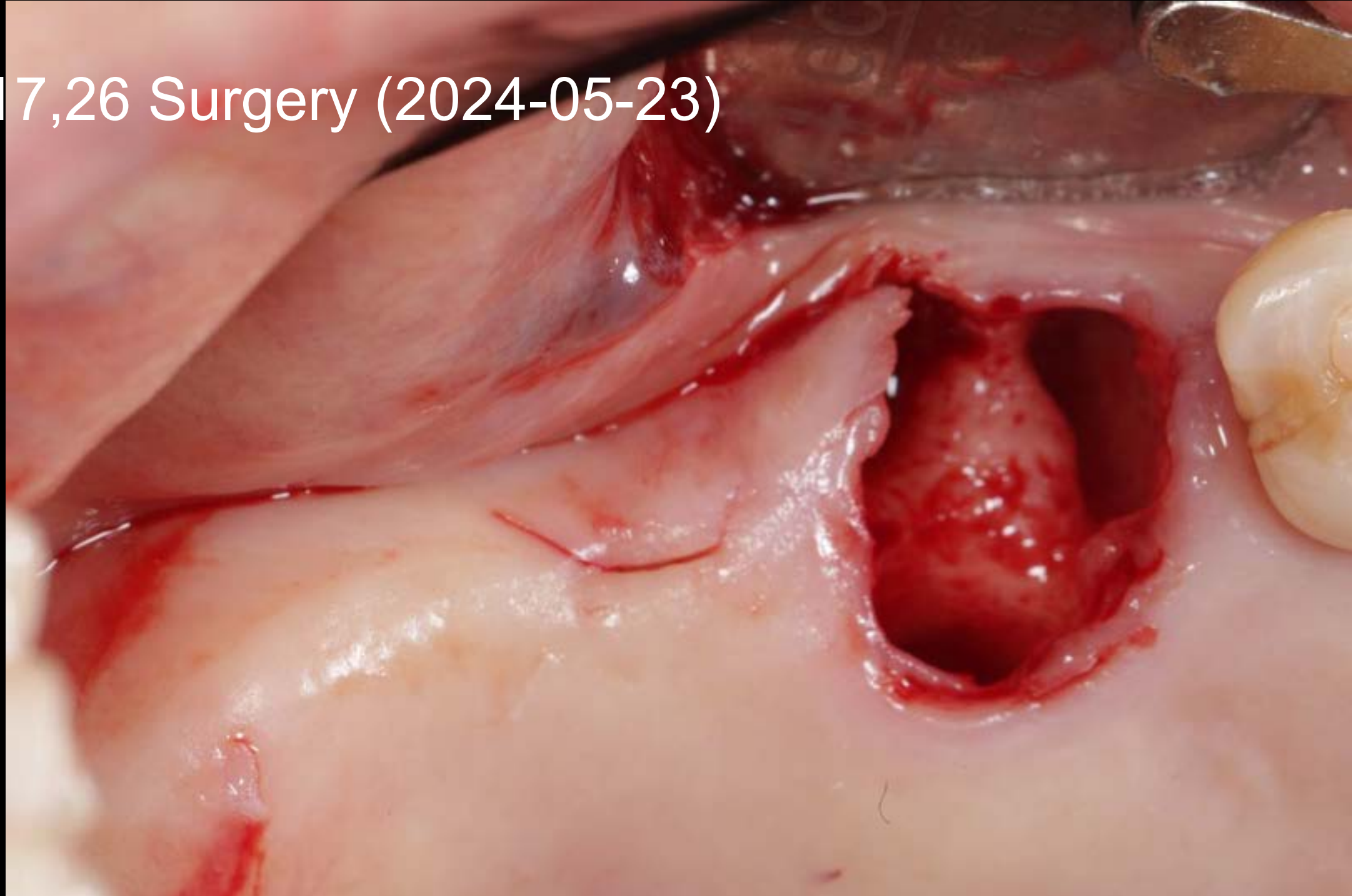


Parallel pin

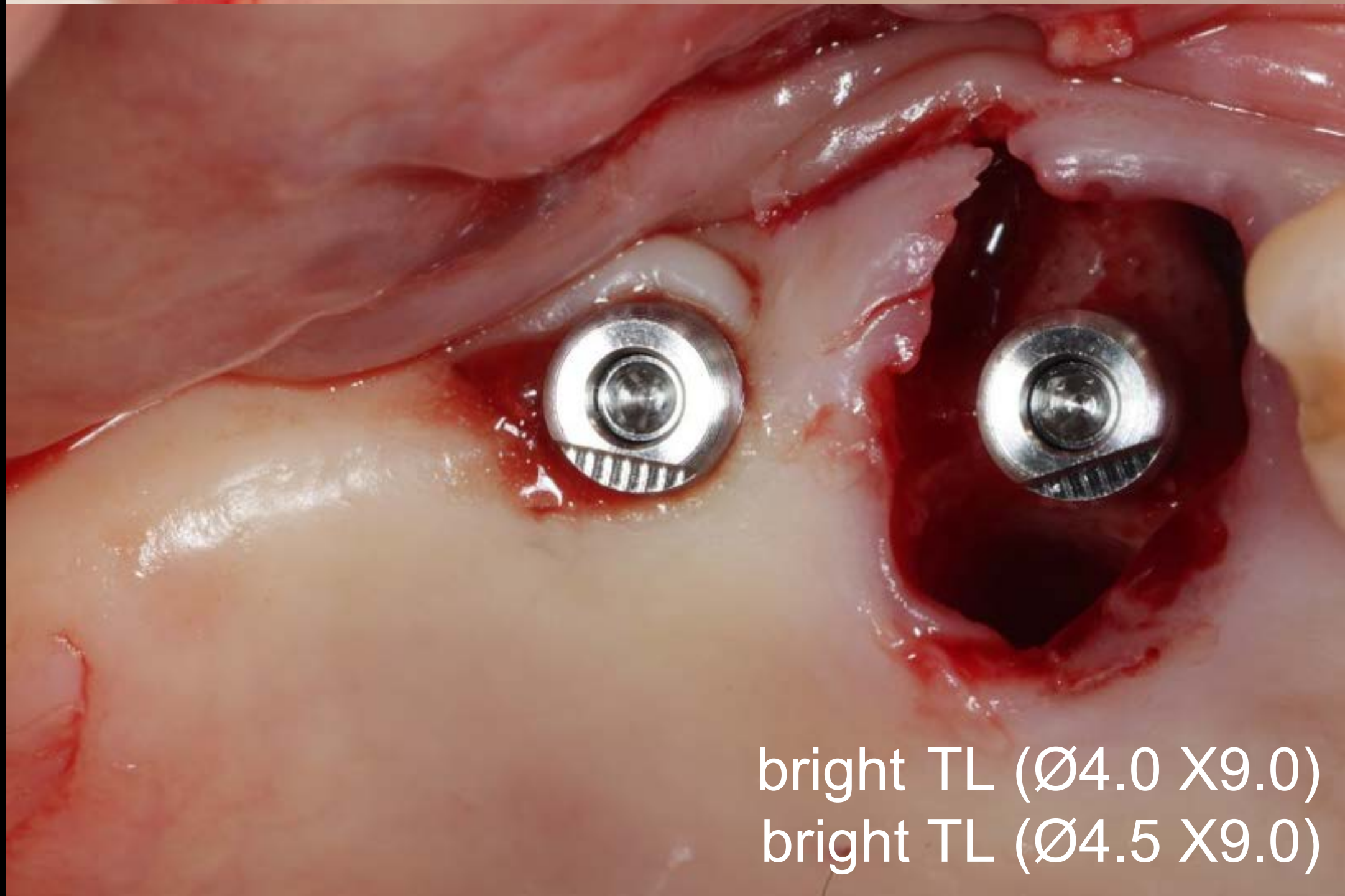


bright TL (Ø4.0 X9.0)

#16,17,26 Surgery (2024-05-23)



Parallel pin



bright TL (Ø4.0 X9.0)
bright TL (Ø4.5 X9.0)



OSTEON™ Xeno Collagen
Collagen Graft 2
Suture

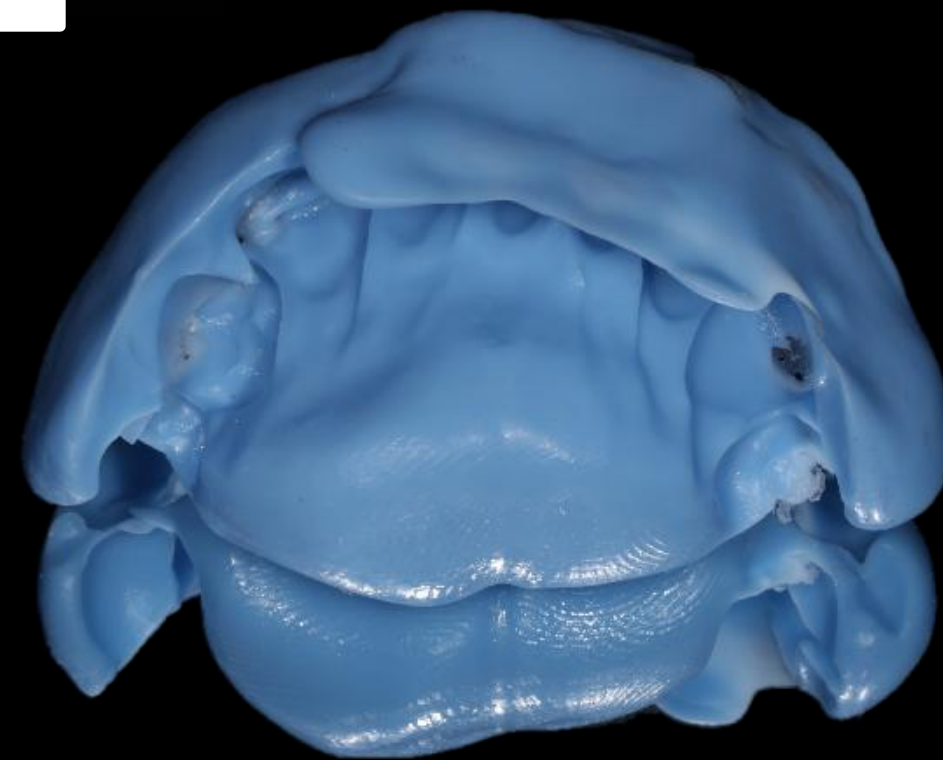
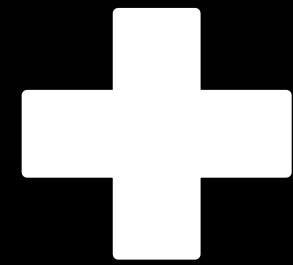
#16,17,26 Healing : 2 weeks (2024-06-05)



#26 Follow up : 6 months (2025-01-17)

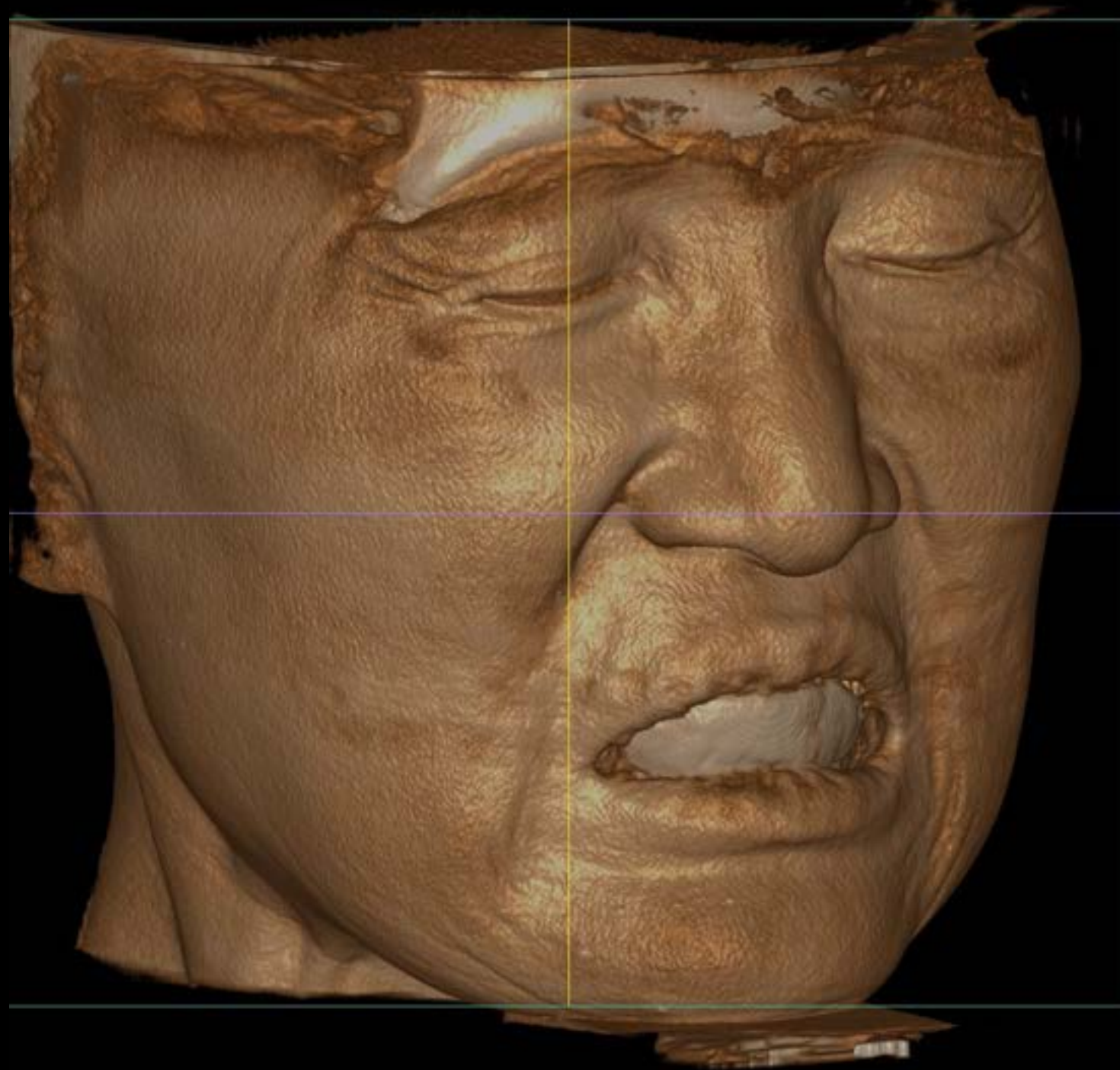


CT Check Bite



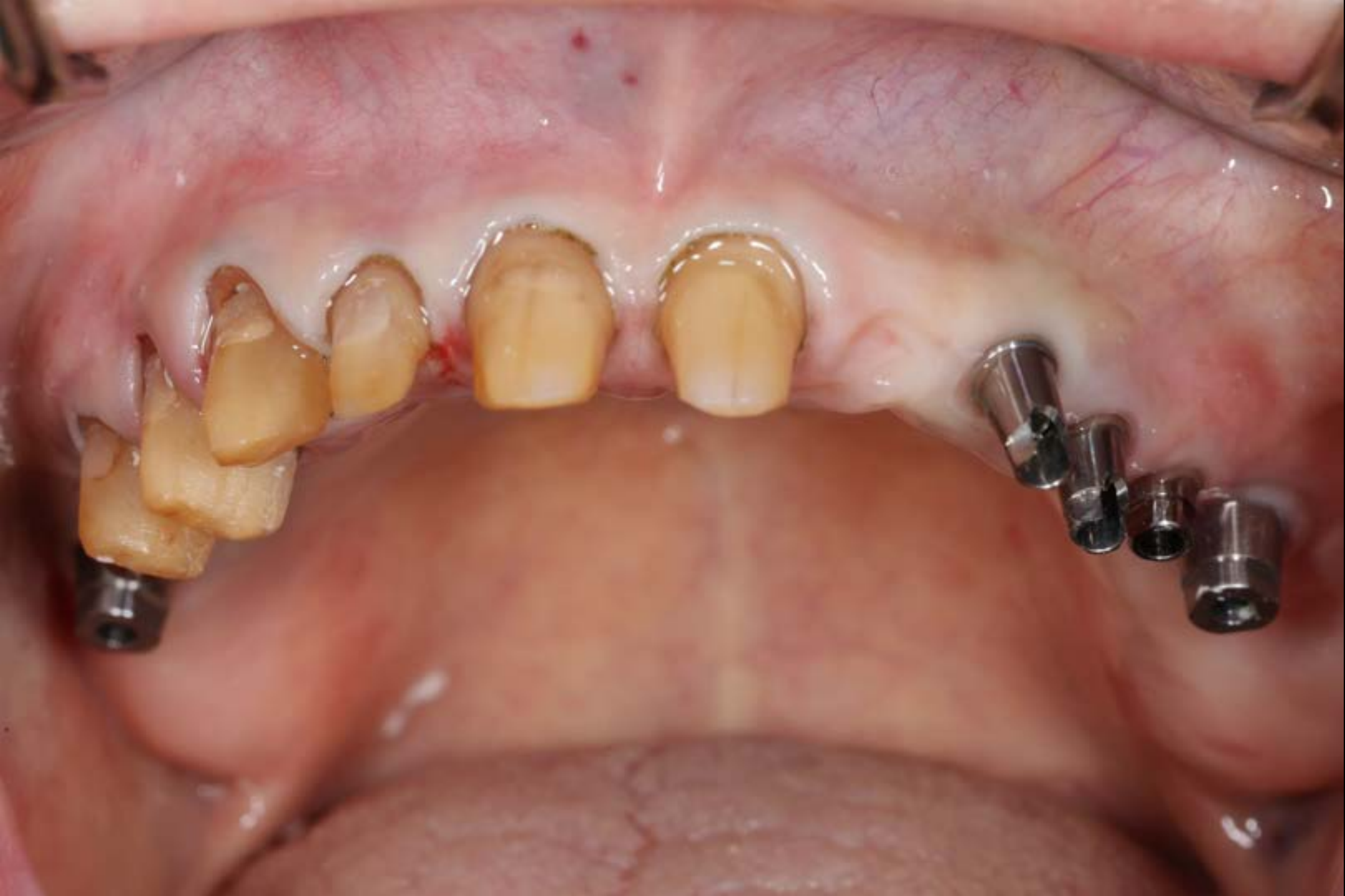
Verified stable occlusion of 2nd provisional crown using
putty index during CT scan and check bite
Utilized for fabrication of final prosthesis

CT Check Bite

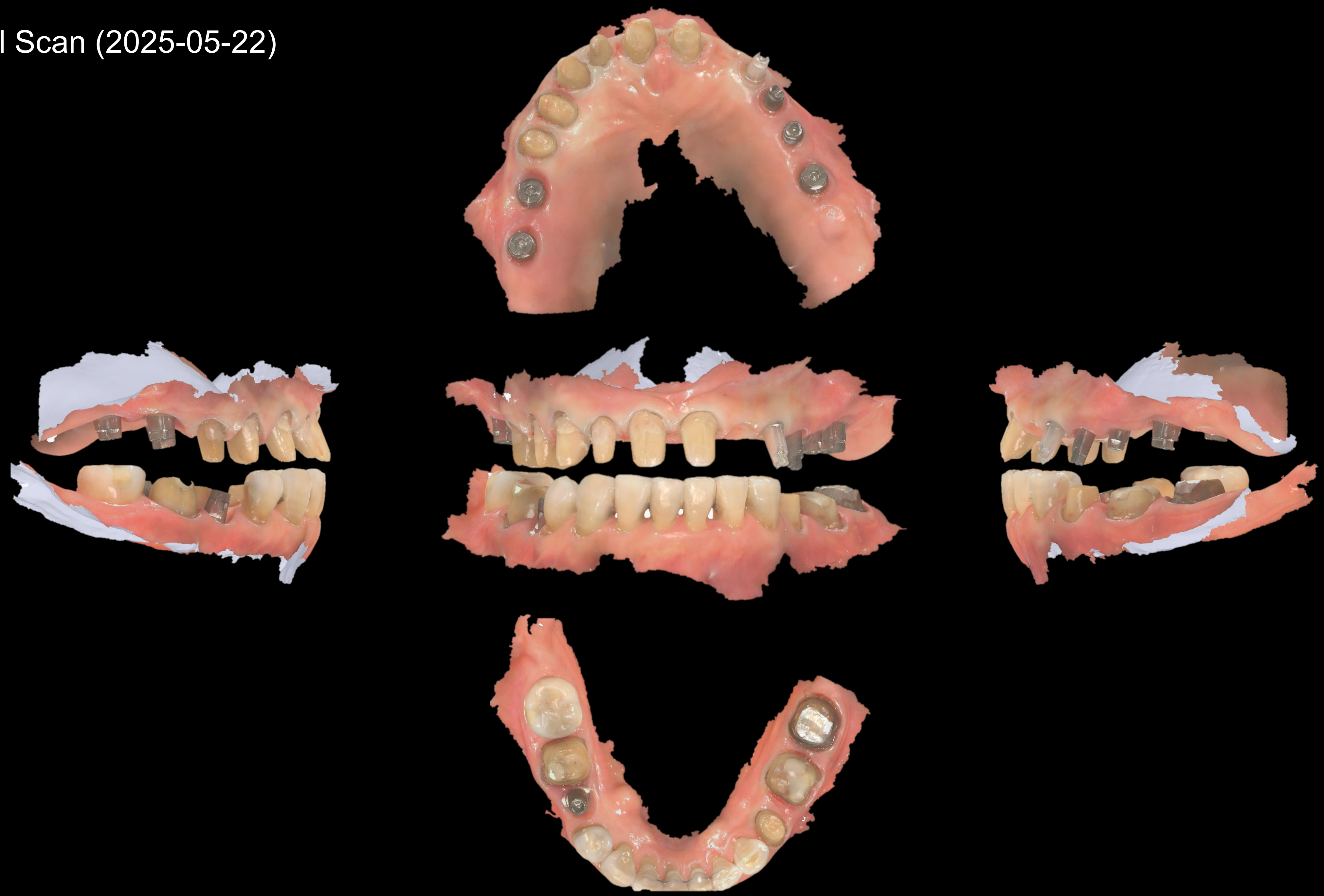


Verified stable occlusion of 2nd provisional crown using
putty index during CT scan and check bite
Utilized for fabrication of final prosthesis

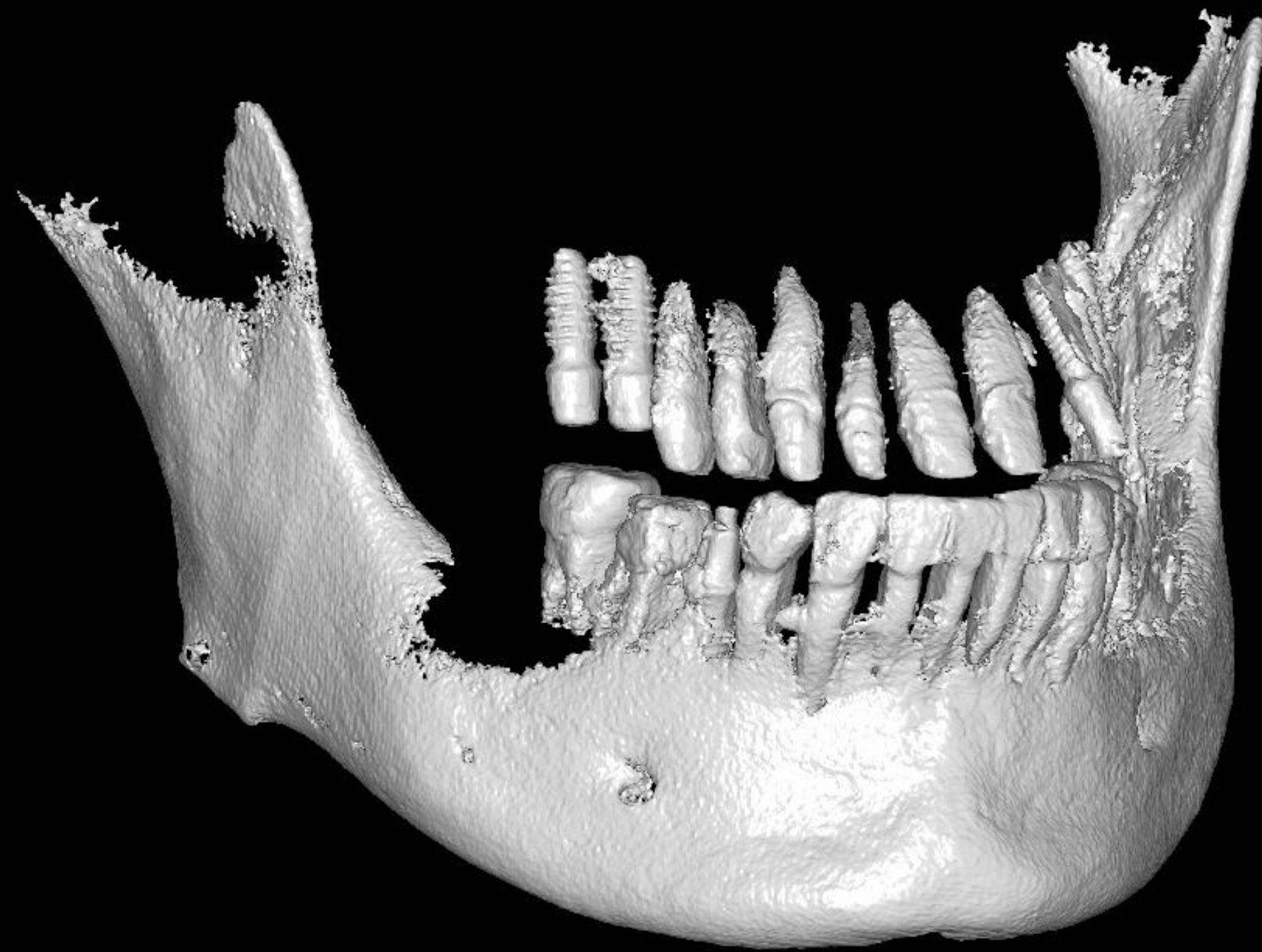
Final Impression (2025-05-19)



Intra Oral Scan (2025-05-22)



CT Viewer



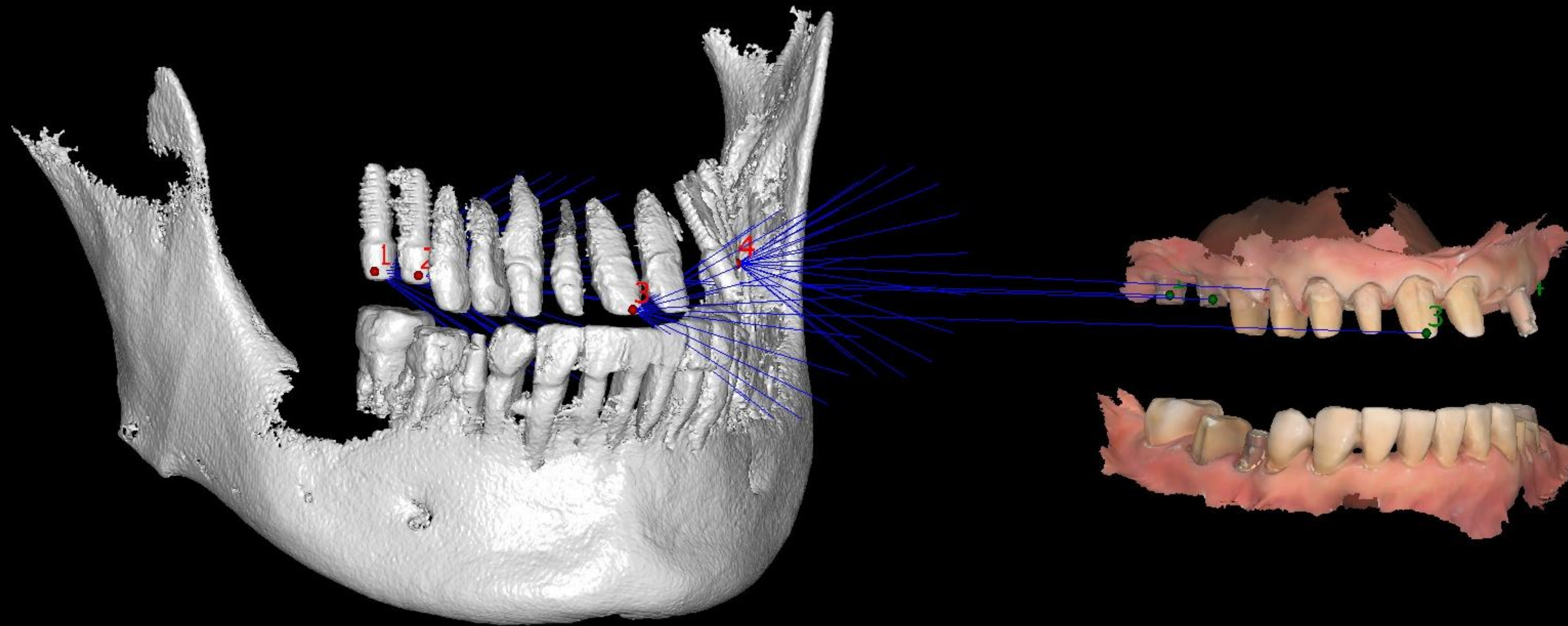
CT check Bite



Ios scan Data

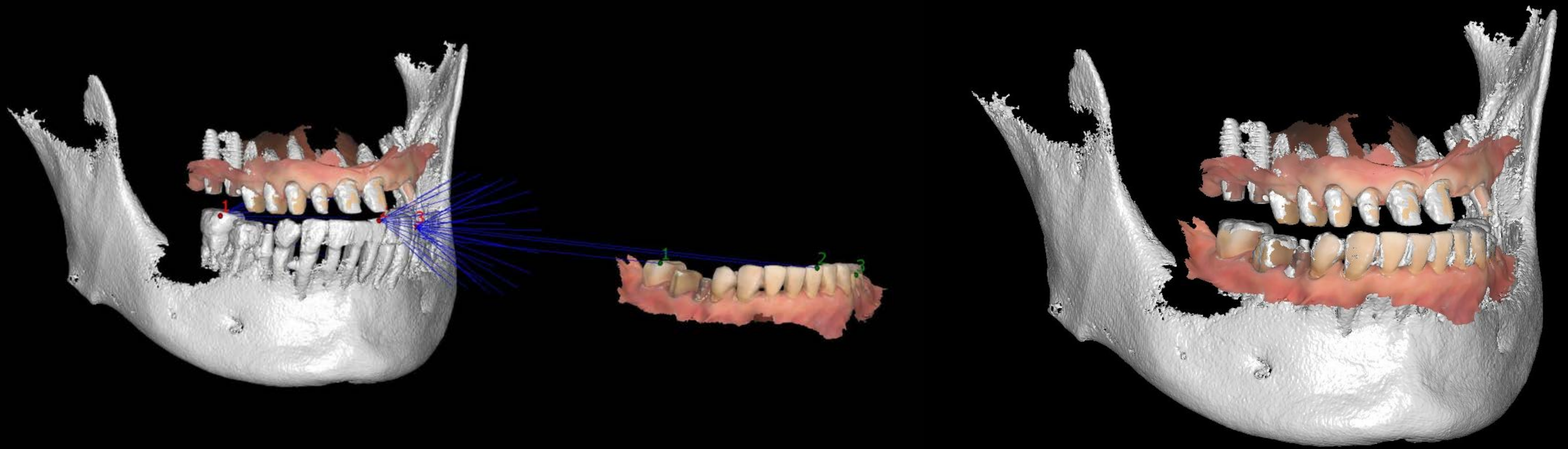
AI Occlusal Plane

CT Viewer

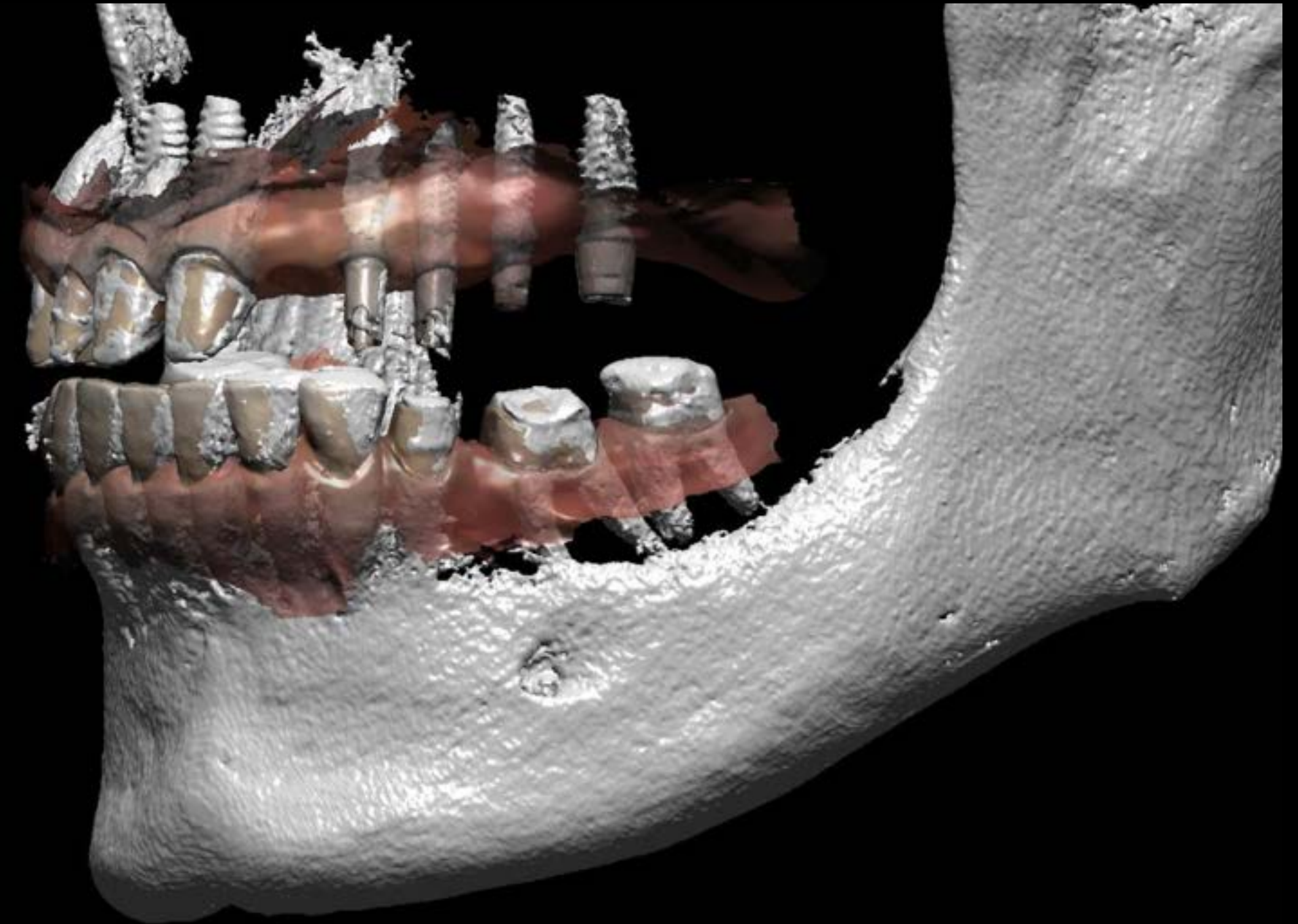
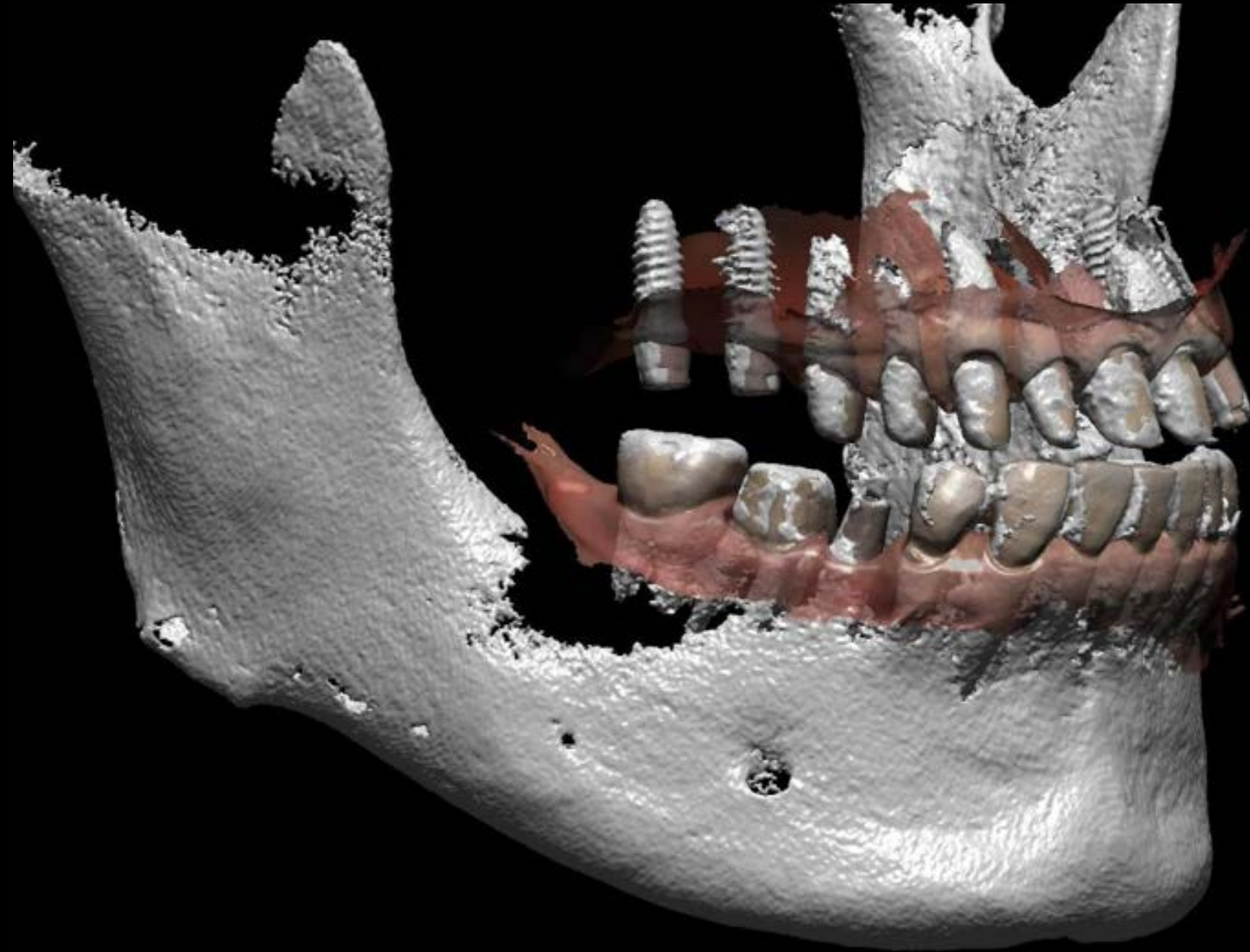


AI Occlusal Plane

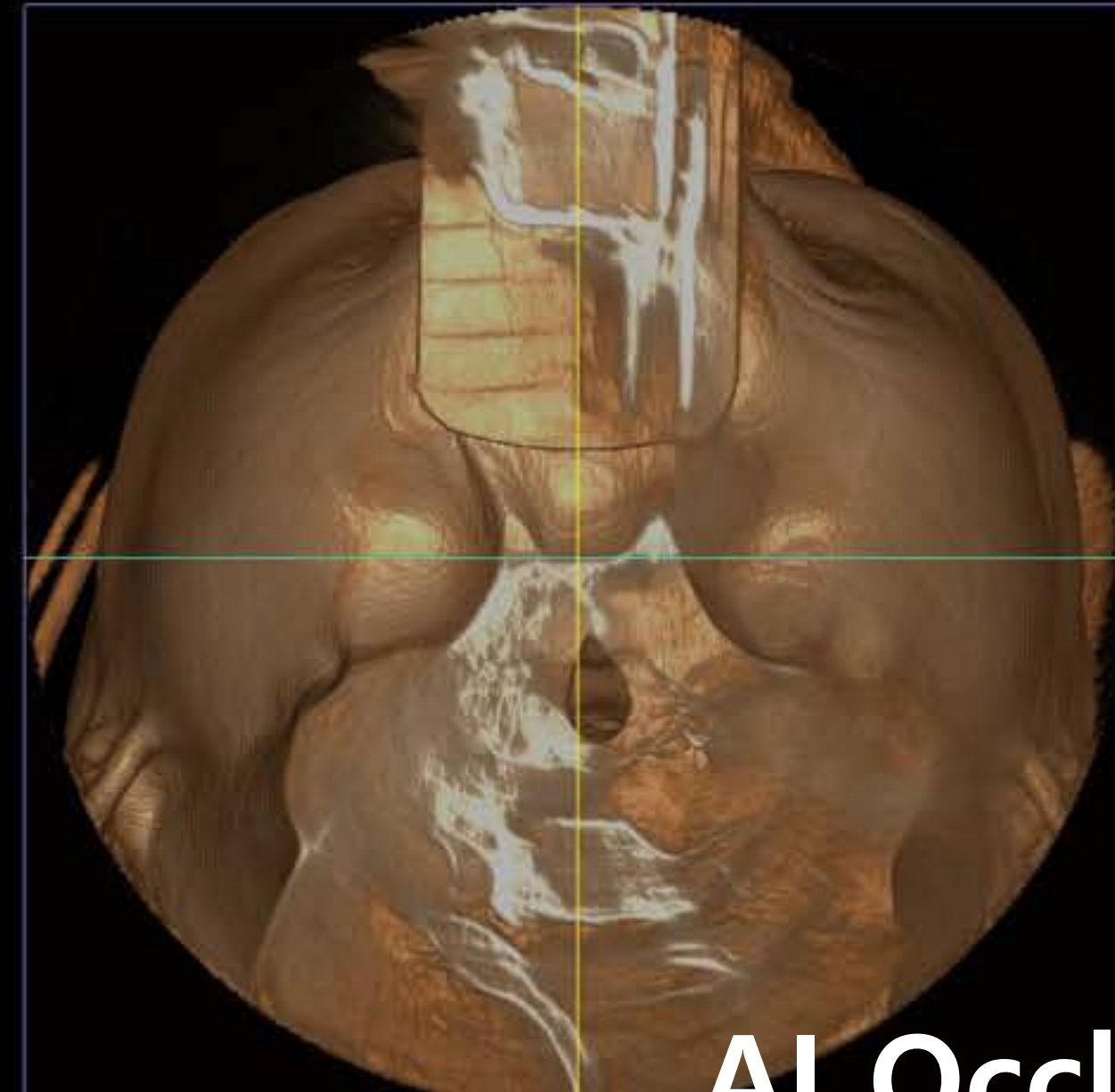
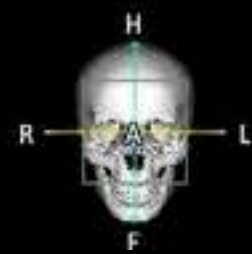
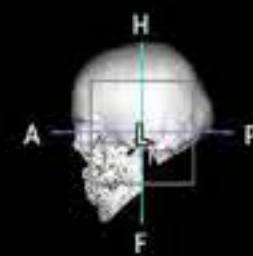
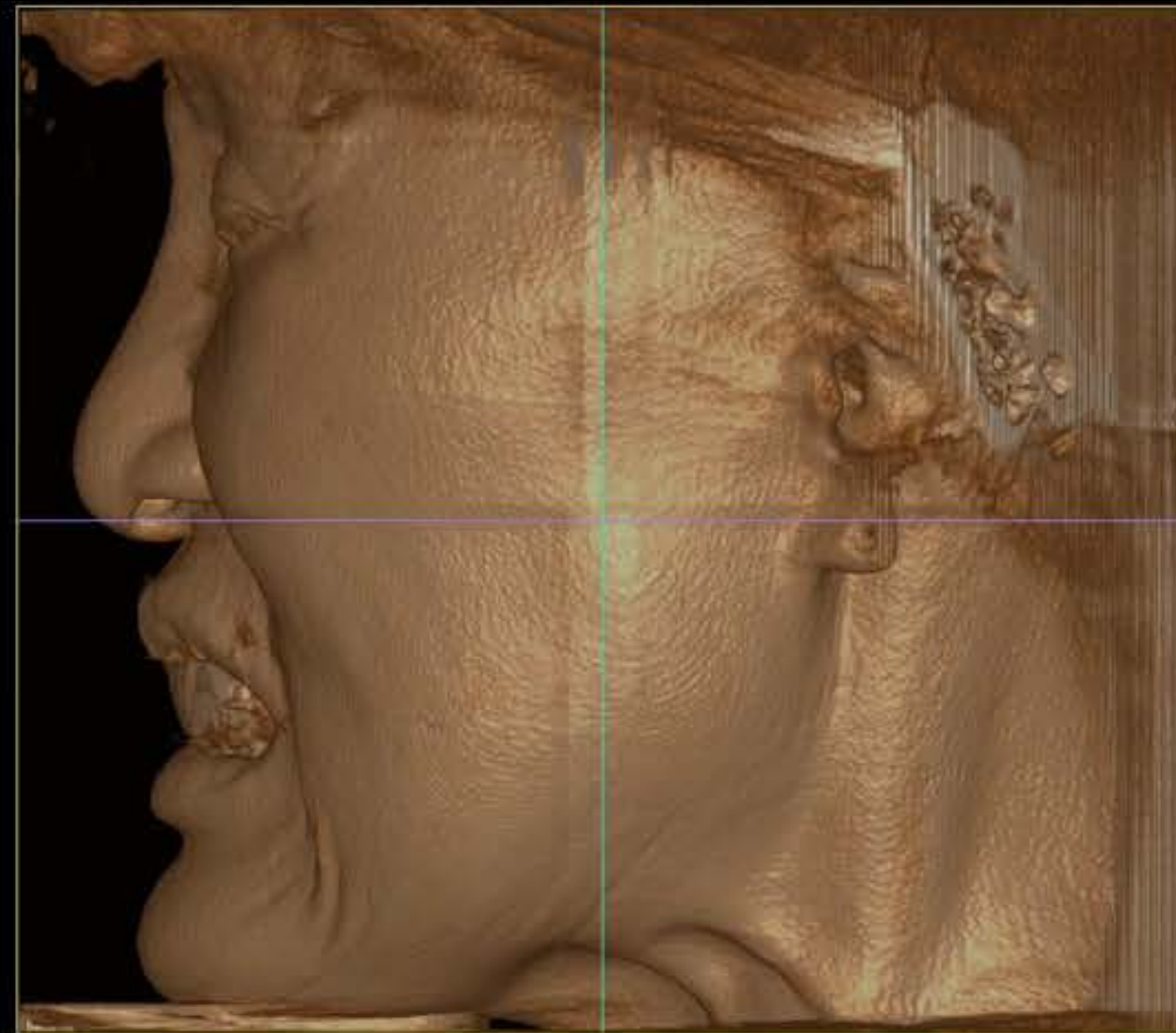
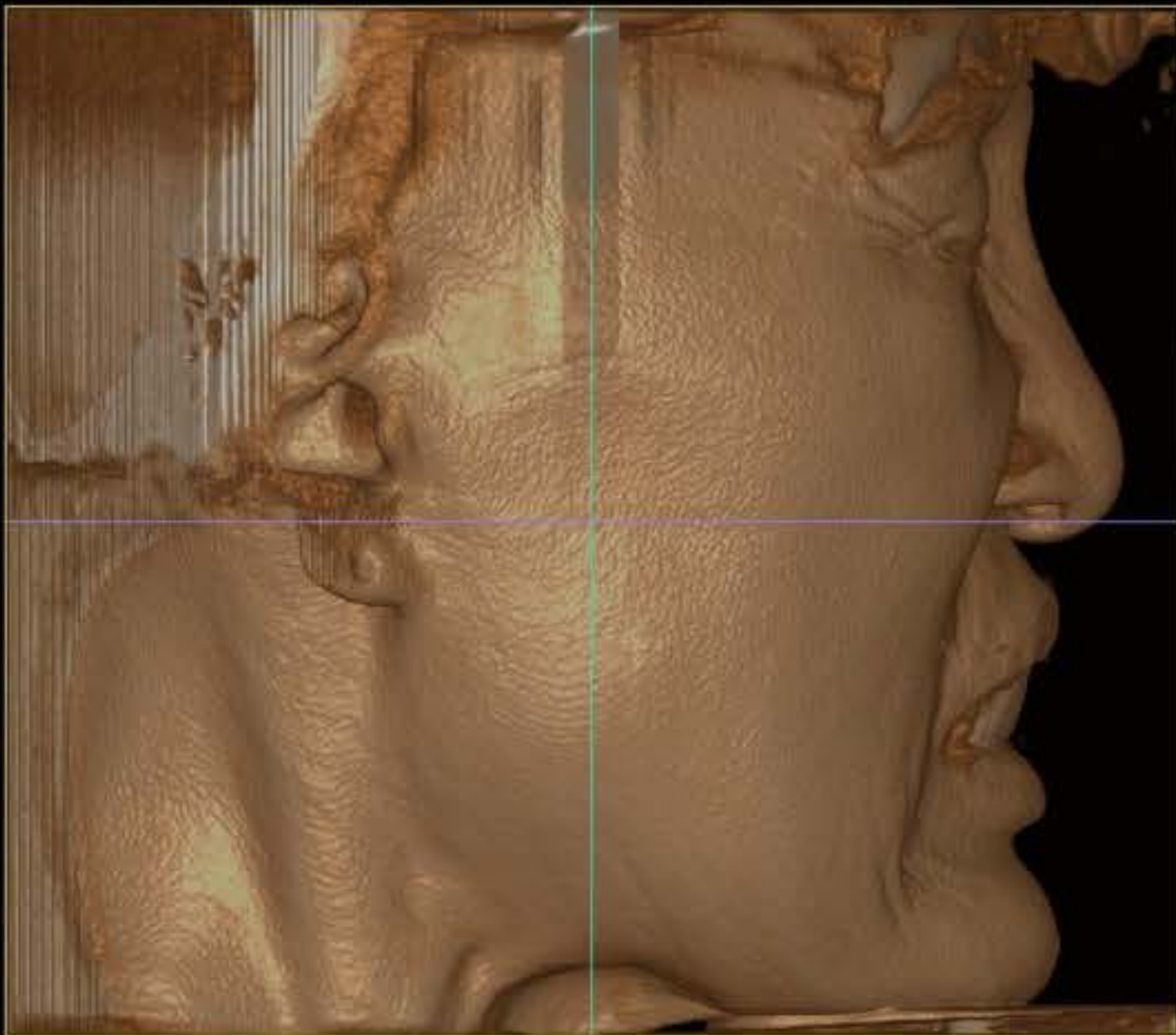
CT Viewer



Cad design



CT Viewer



AI Occlusal Plane

CT Viewer

Patient Information

Virtual Ceph

Select Mark

Create Ceph

Create YTI

Occlusal Plane(OP)

AUTO

Render Type

Hard Type

Viewport

HU

4716

1%

Q

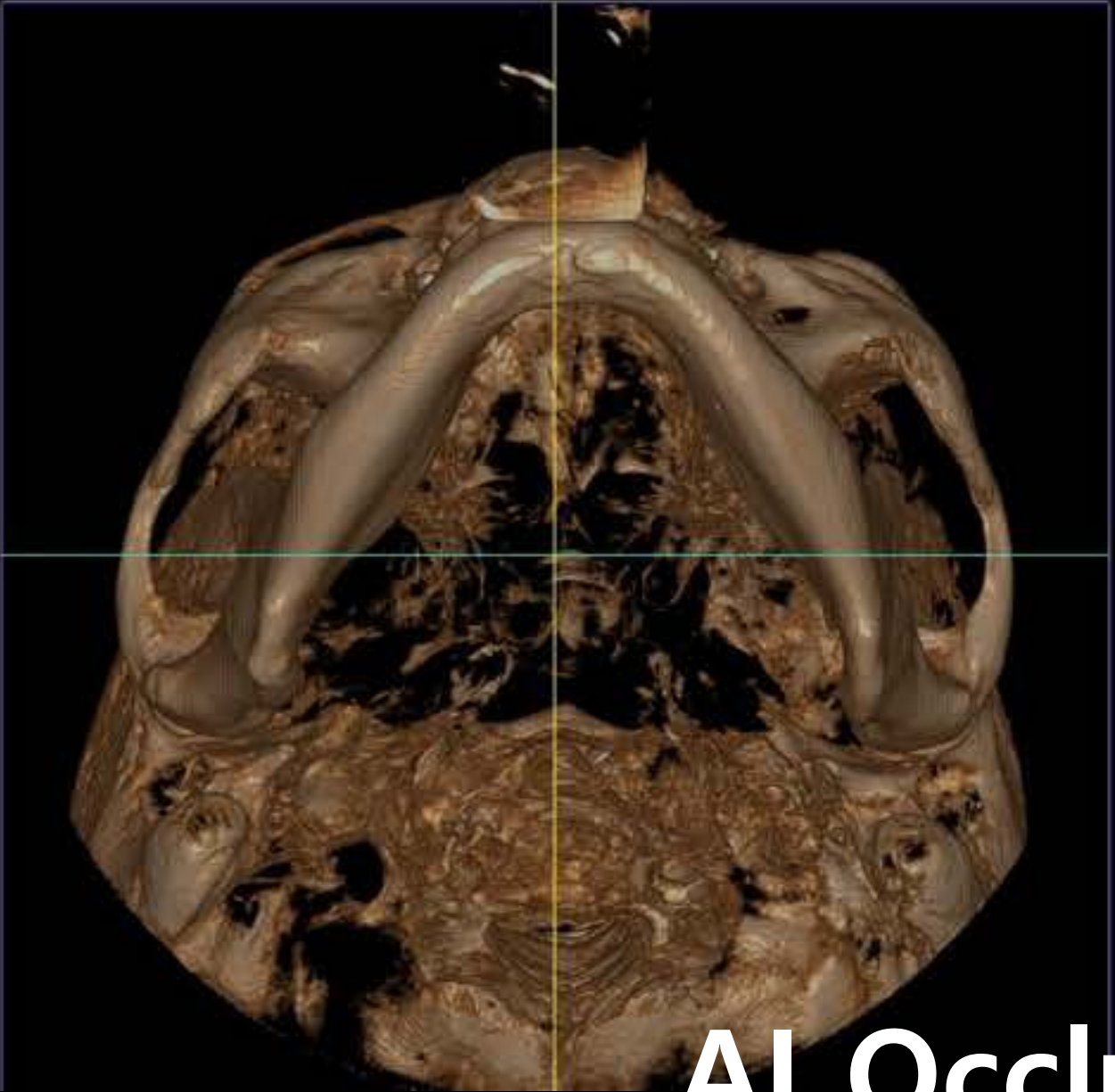
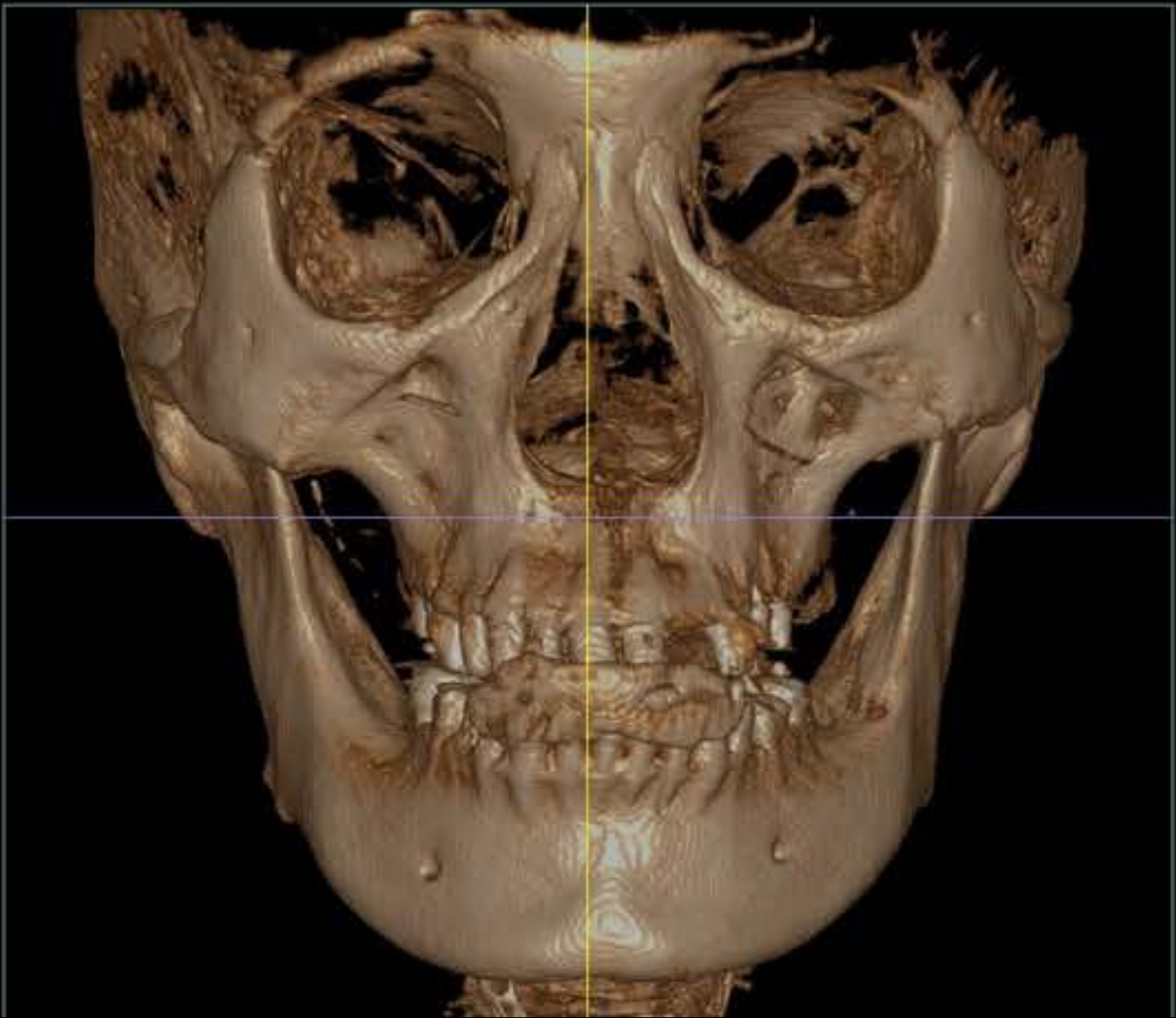
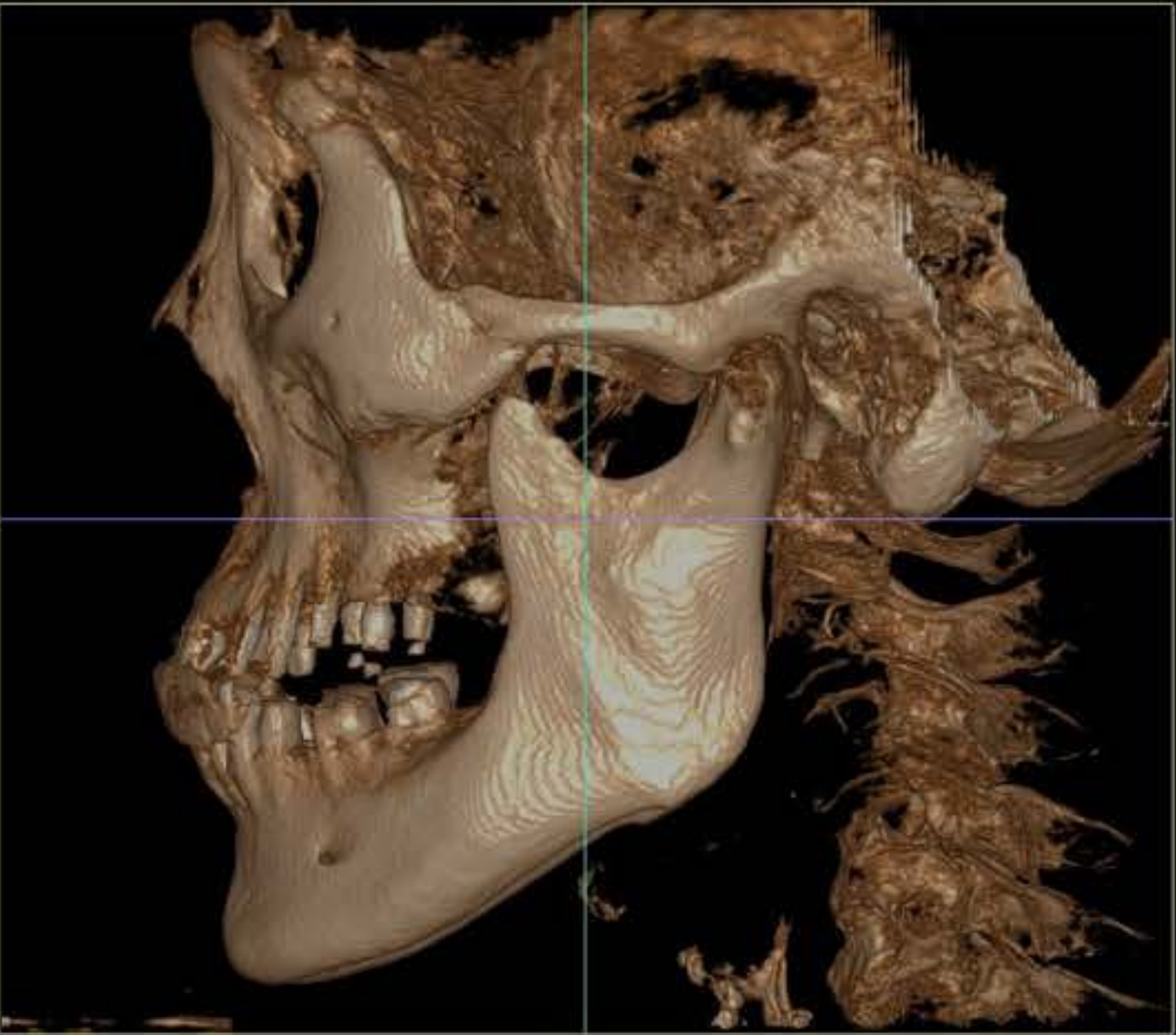
Default

Capture Group

Reset

Ceph Mark

All



AI Occlusal Plane

CT Viewer

Patient Information

Virtual Ceph

Create Ceph

Create YTI

Occlusal Plane(OP)

Landmark Mode

Plane Lock

Render Type

Hard Type

Viewport

HU

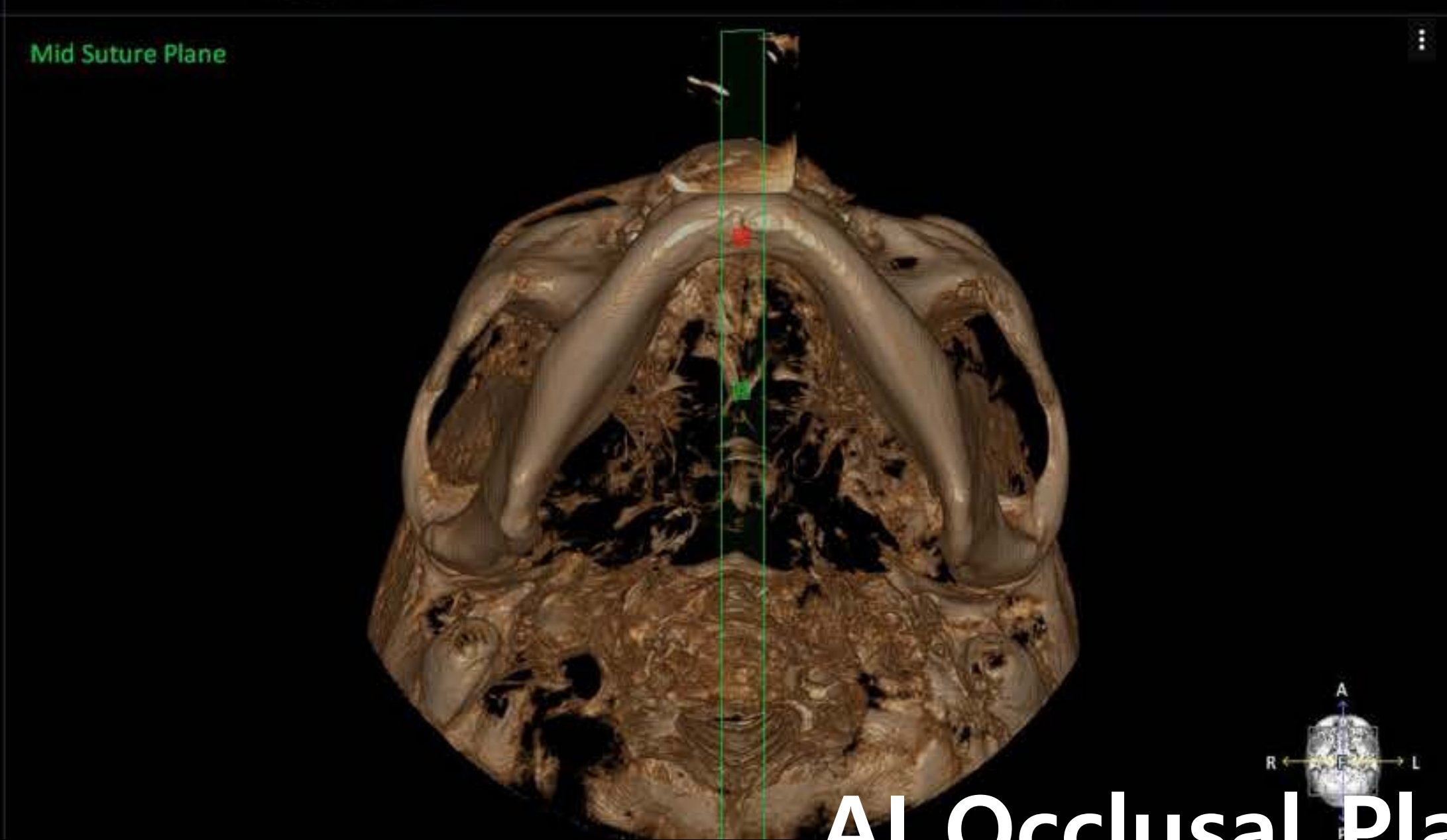
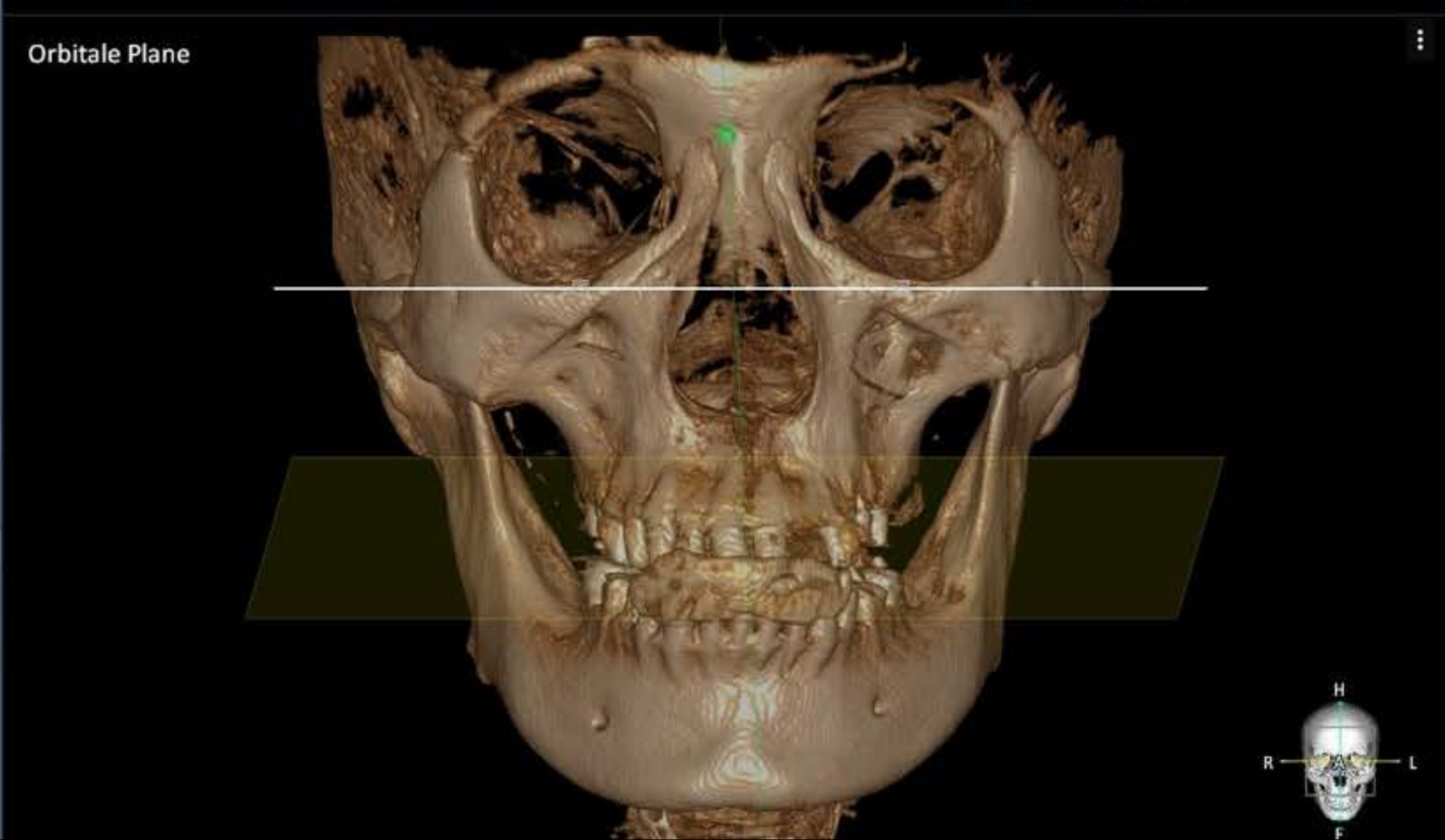
Q

Capture Group

Reset

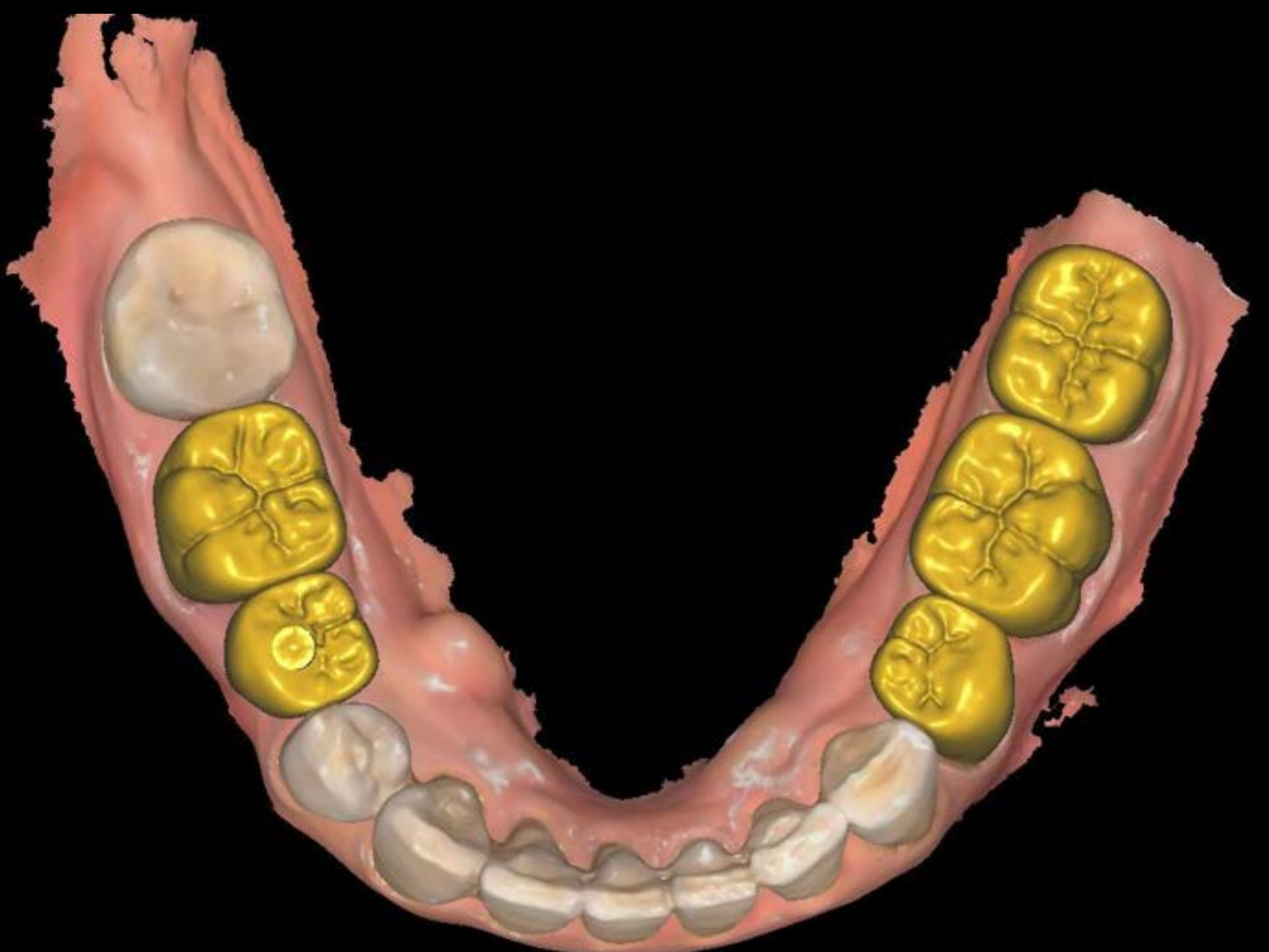
Ceph Mark

All

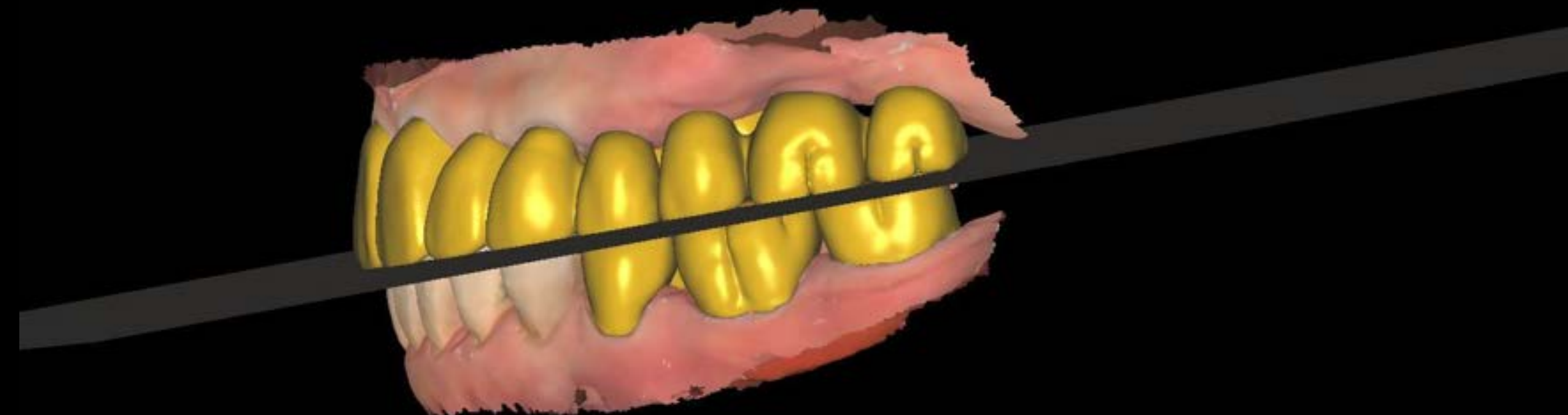
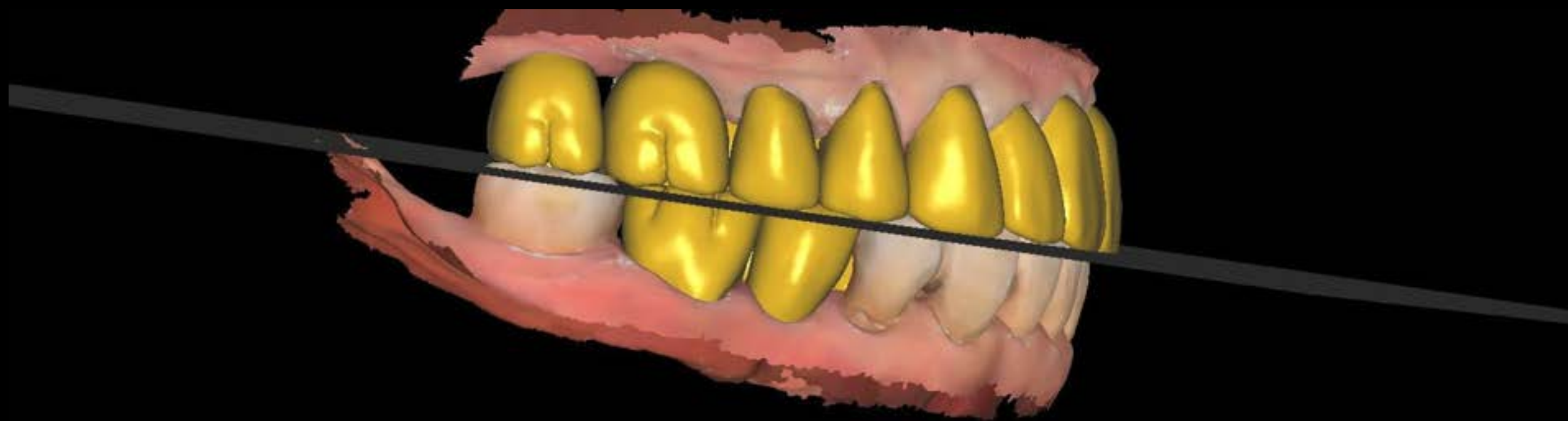


AI Occlusal Plane

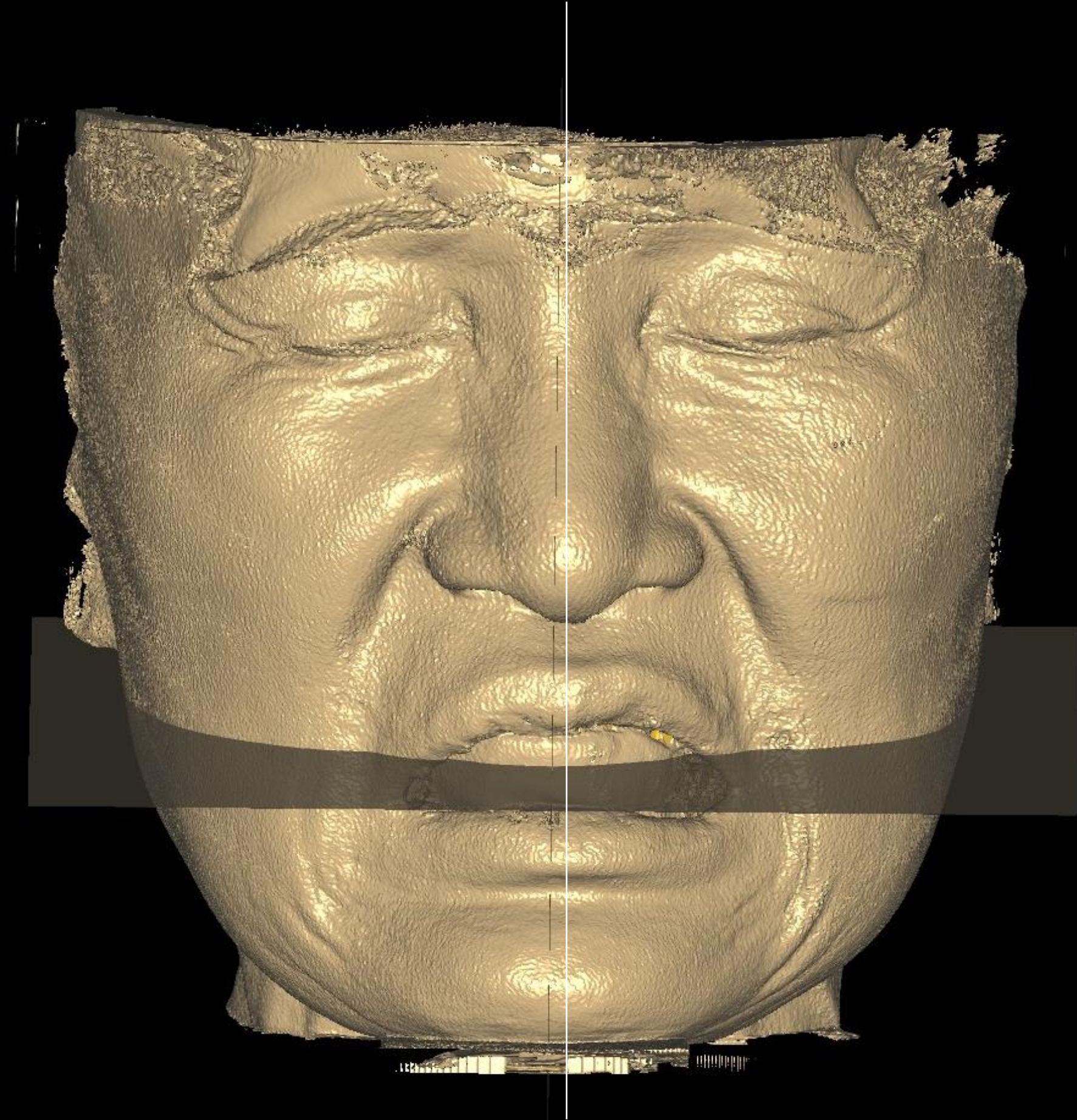
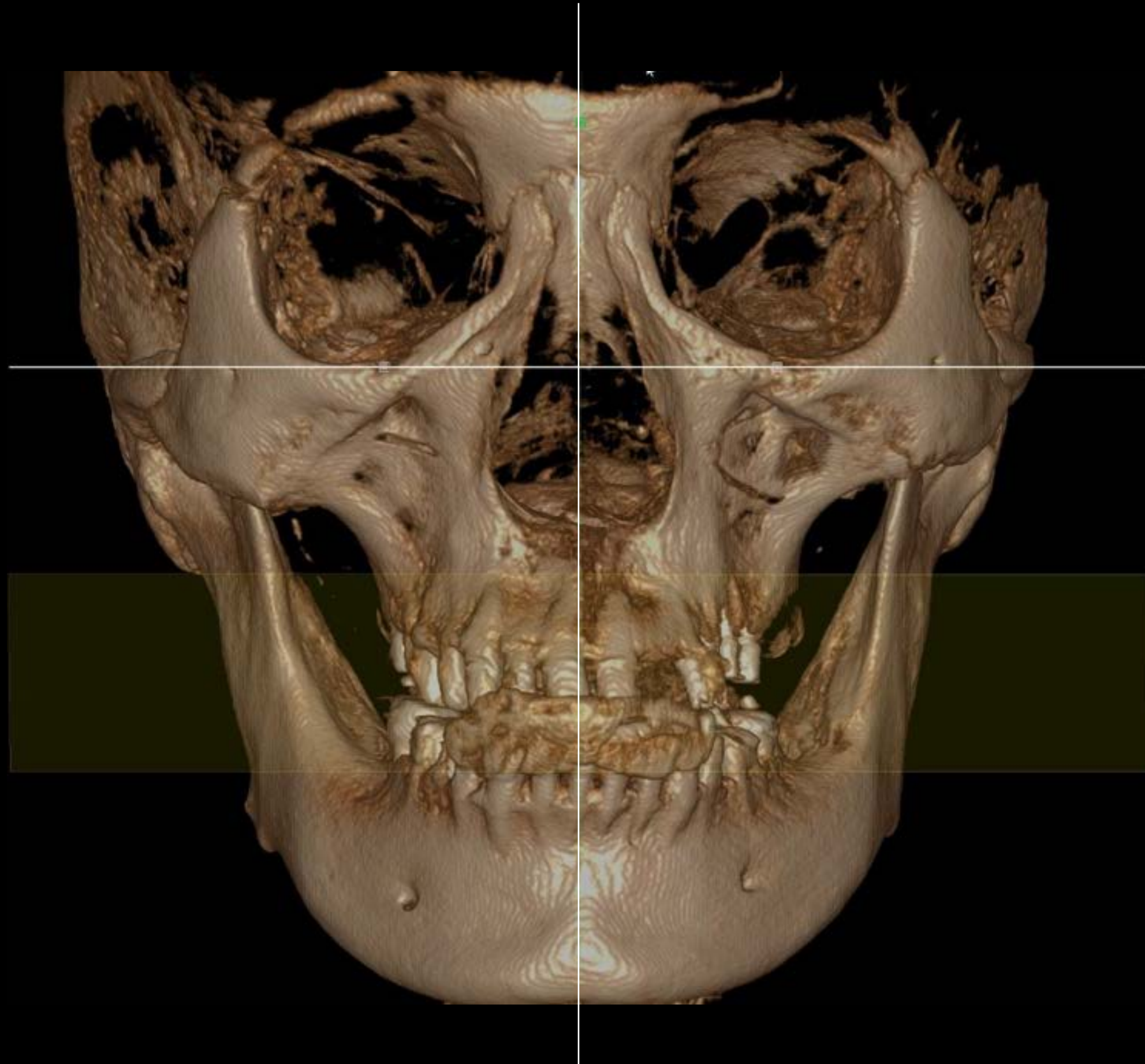
Cad Design



Cad Design



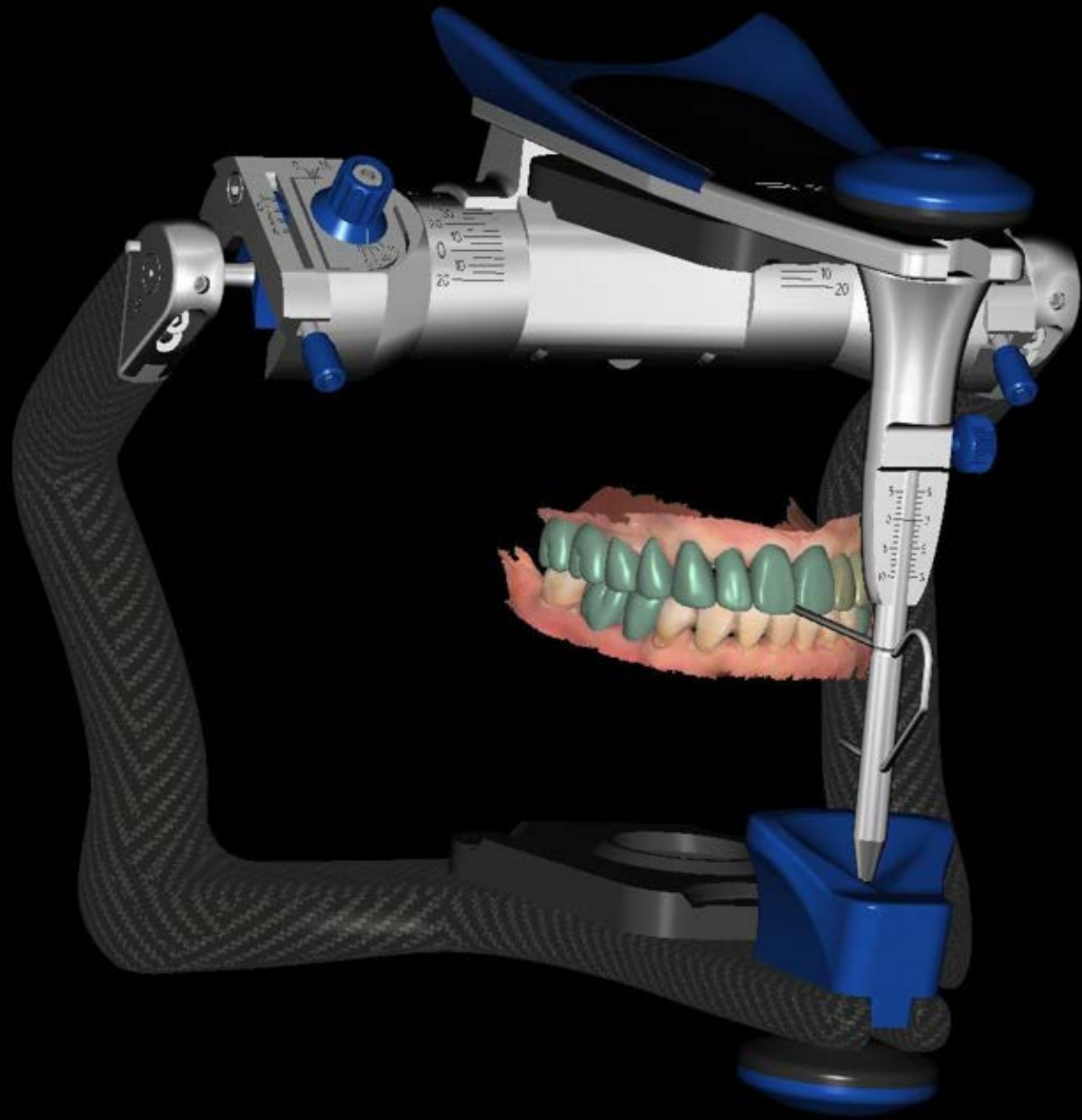
Cad Design



There is a slight difference between the midlines of
hard and soft tissues, so both datasets were used together

AI Occlusal Plane

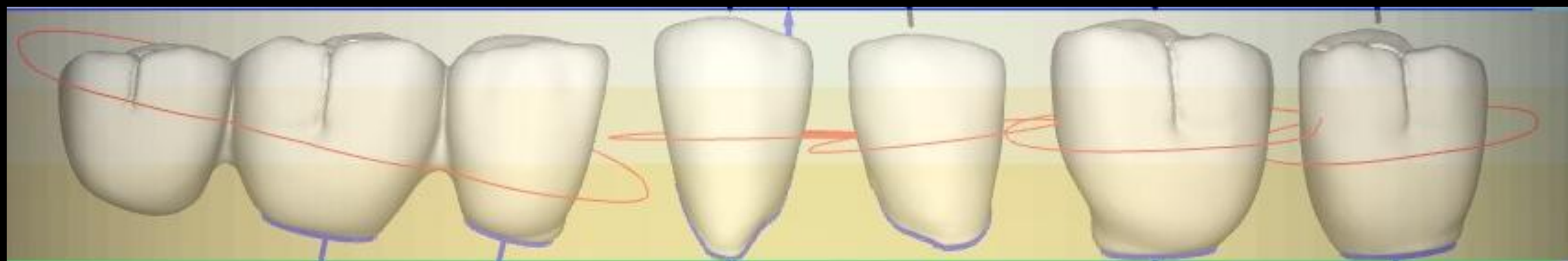
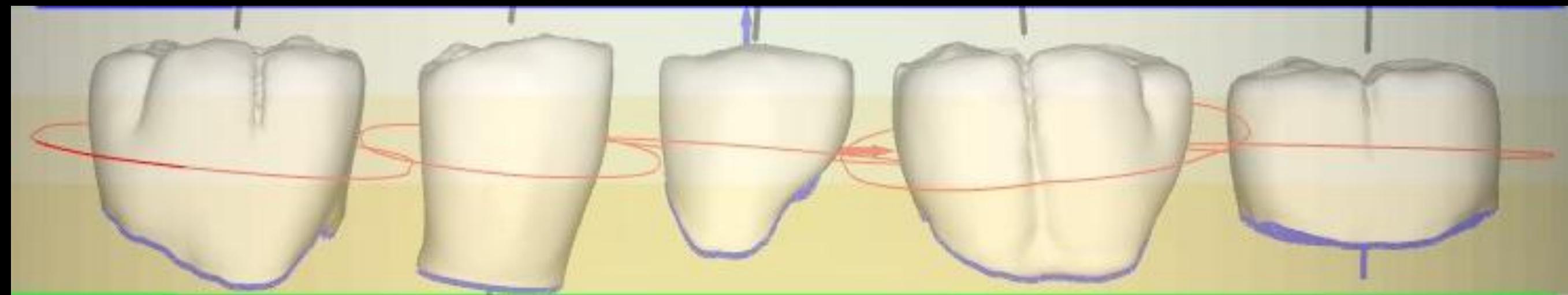
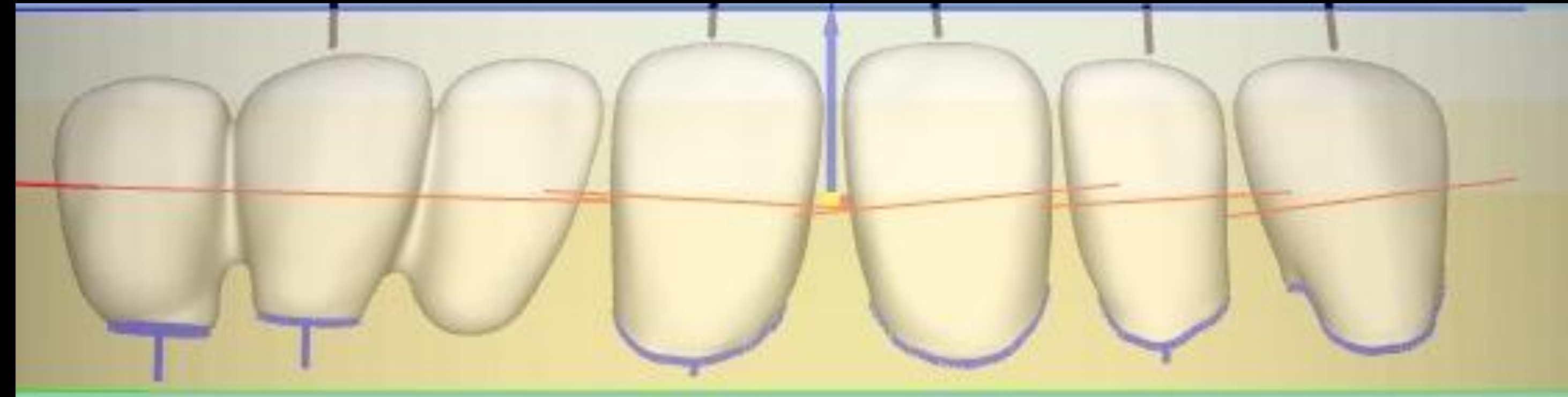
Virtual Articulator



Shade Taking



Hyper Dent



bright 3-Layer

bright 3-Layer



bright 3-Layer

No coloring & Stain

Glazing

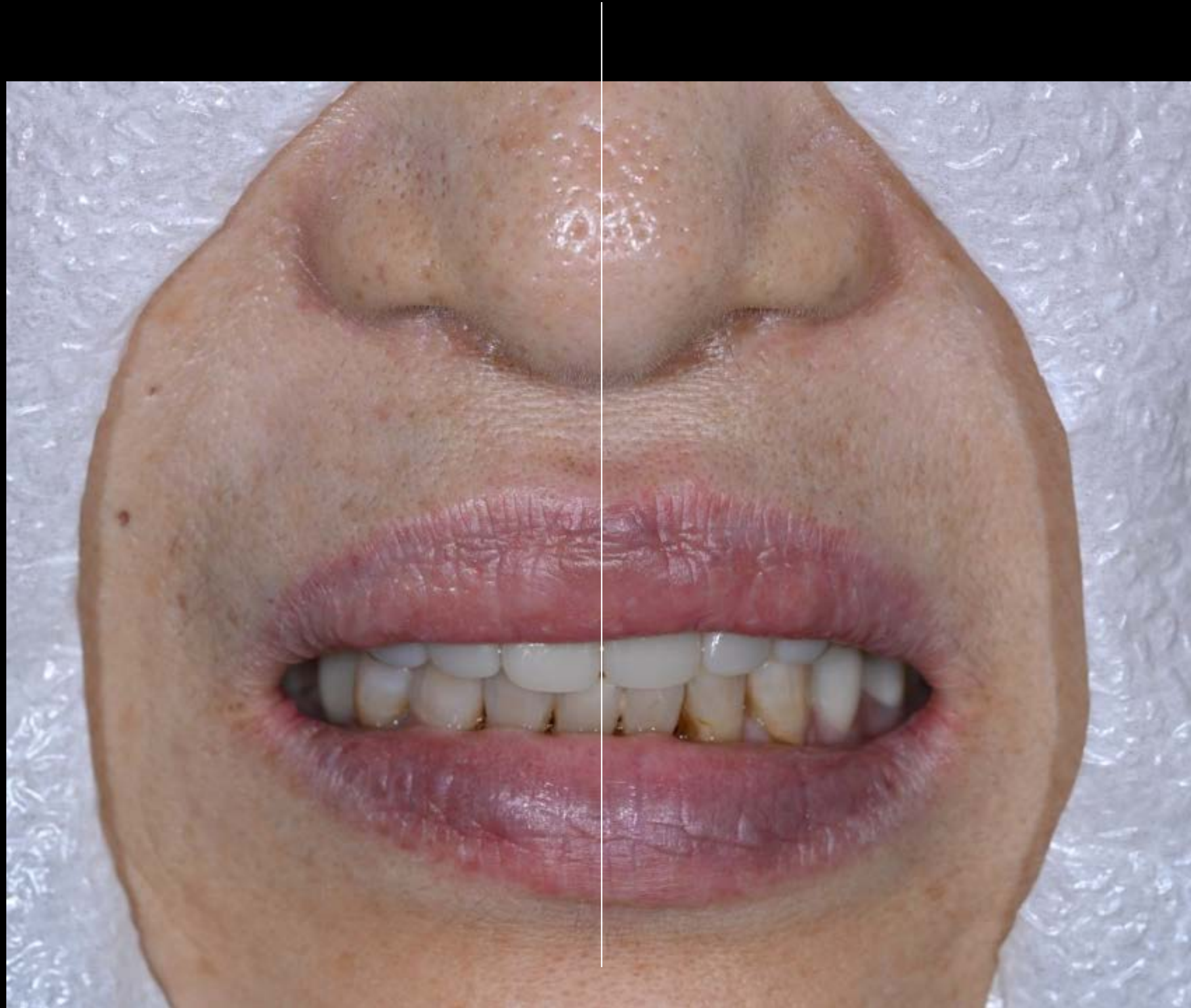


bright 3-Layer
No coloring & Stain

Final Prosthesis



Final Prosthesis



Final Prosthesis



Final Prosthesis



Dentium

3D Viewer **AI Diagnosis**

**** Dentium AI Solutions VOD**