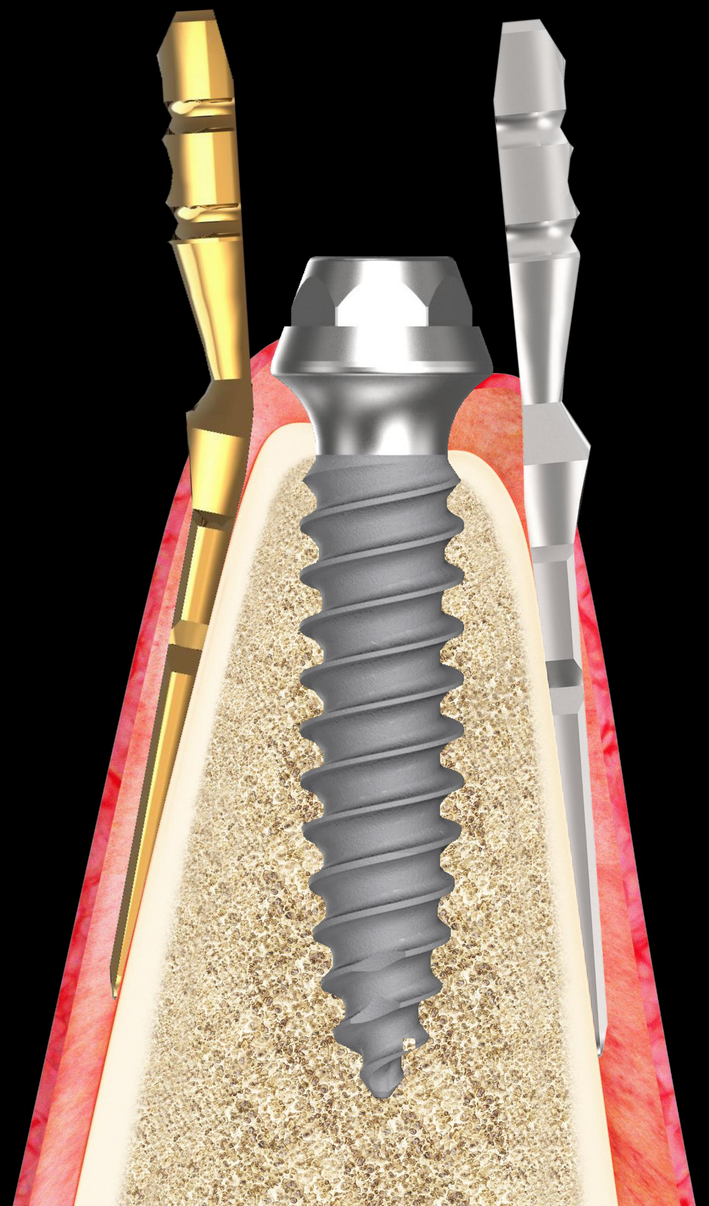


Implant in a next? - minimalism

Optimal results with the least amount of

Sugical intervention - simplicity

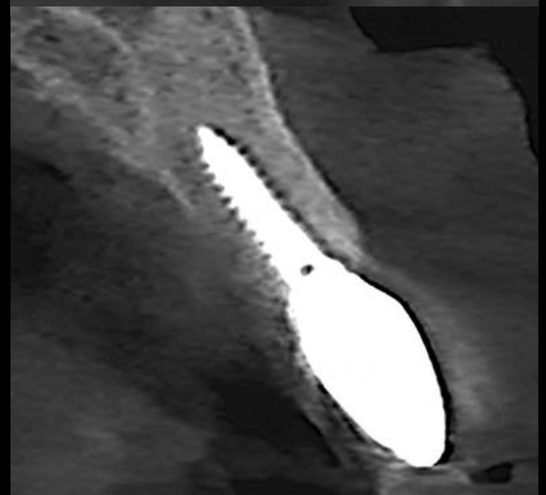
Material use - efficiency

Patient comfort

Dr Sungmin Chung periodontist Ph.D

Founder of Genesis and Dentium

Virtual pano



Pre-op (2025-07-16)

Final prosthesis (2025-09-17)

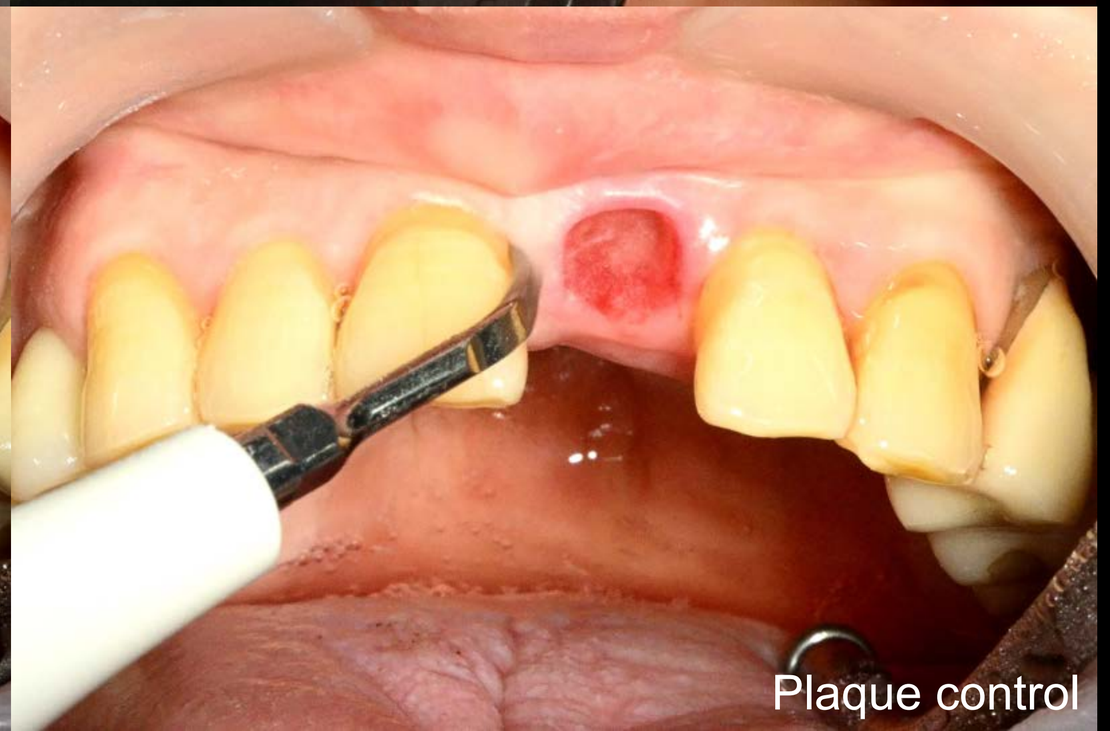
Immediate Implantation using Pin Guide & GBR

Dentium dental Clinic
Dr. SM Chung

** 4p Surgery VOD 1

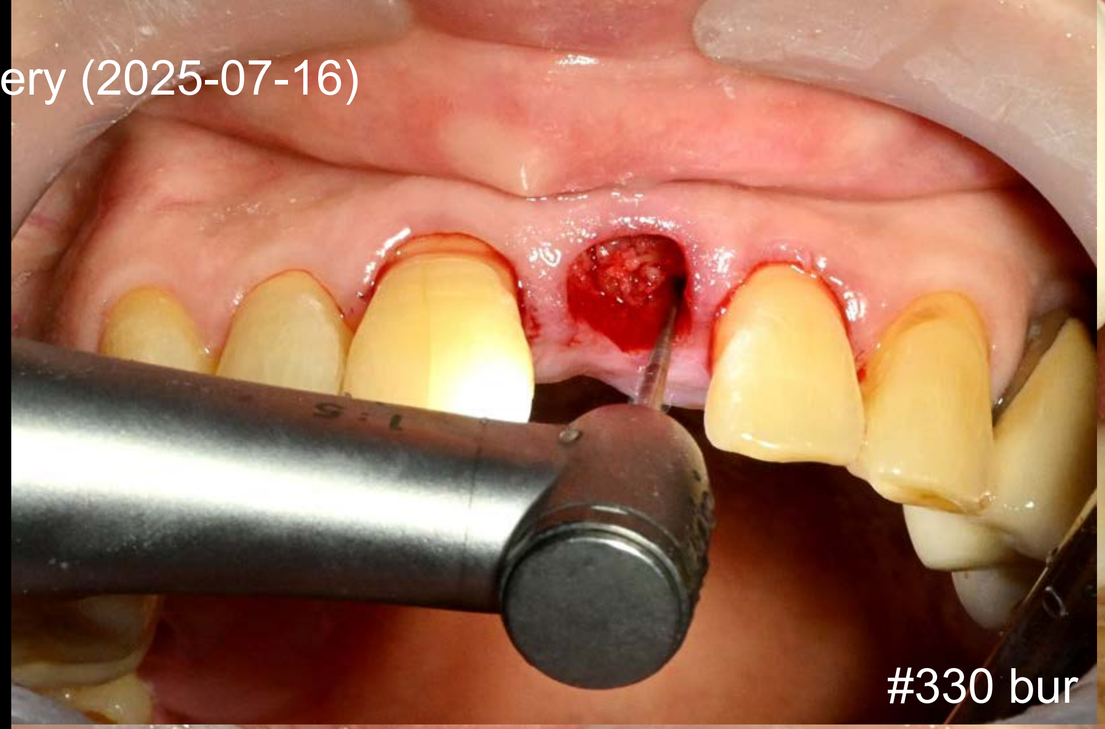
Surgery (2025-07-16)

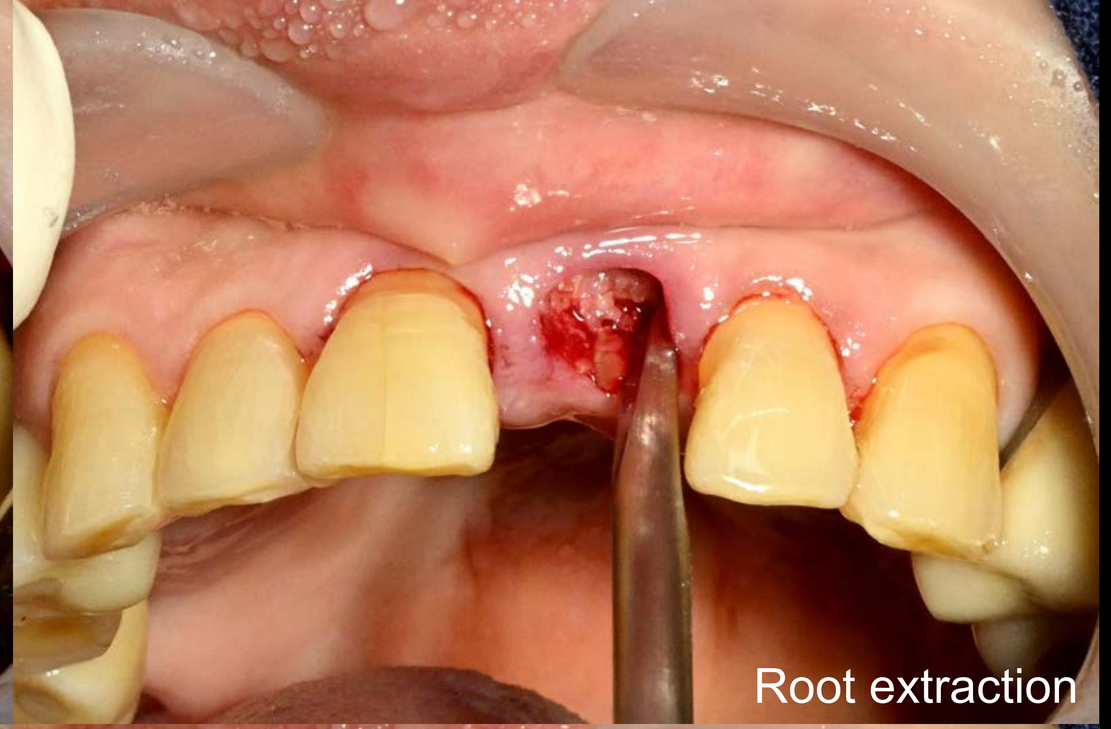
Extraction

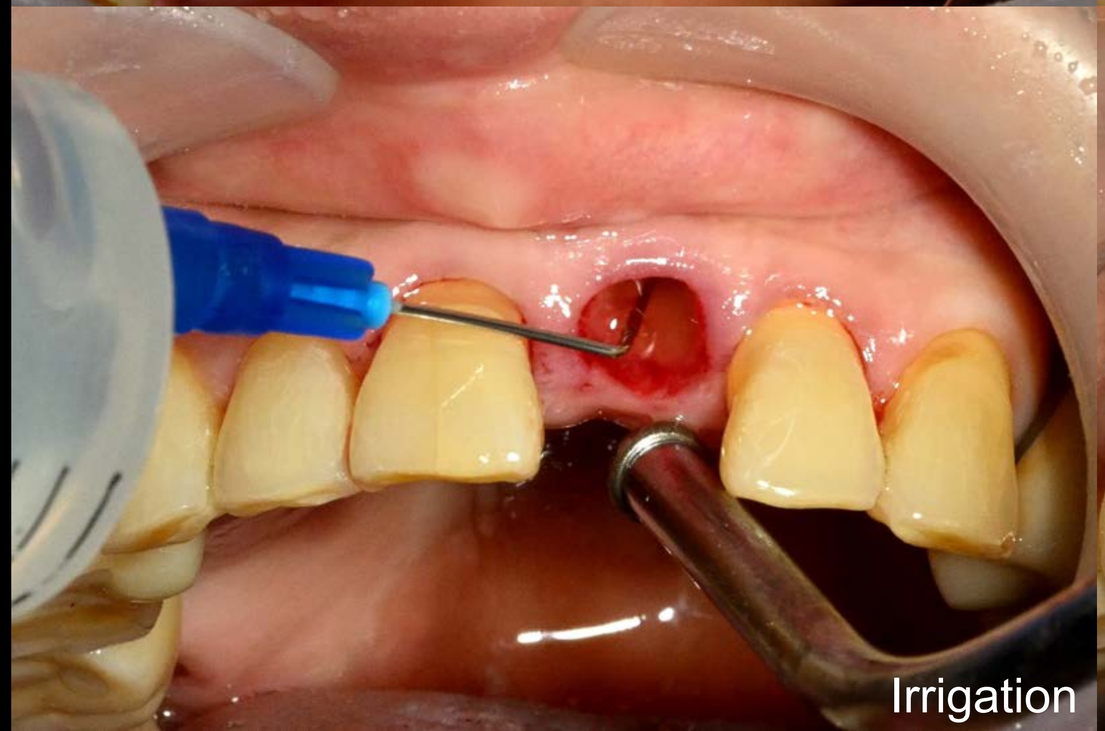


Plaque control

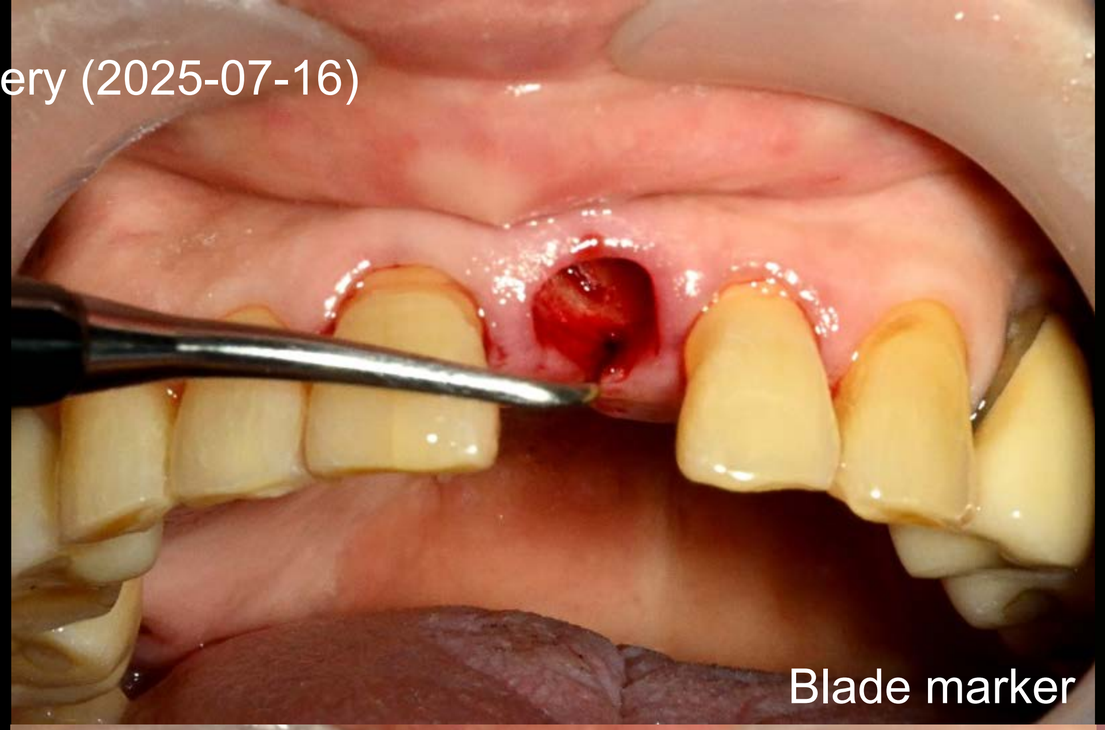
Surgery (2025-07-16)







Surgery (2025-07-16)



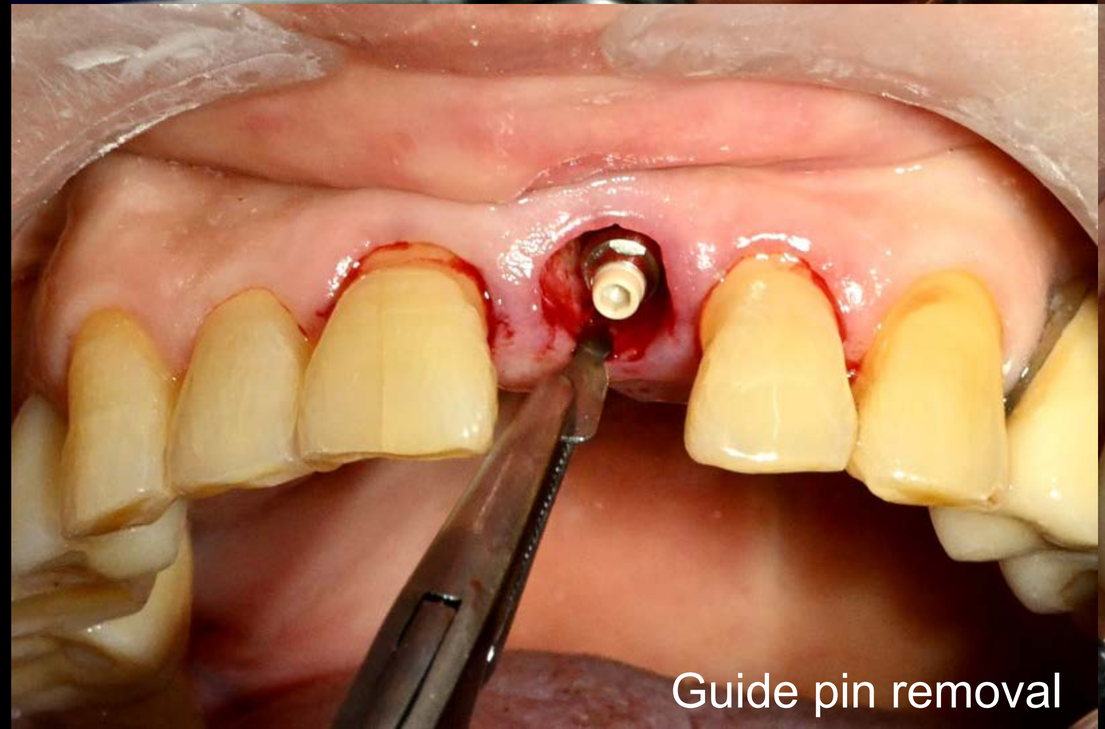
Blade marker

Guide Pin (Simple) with needle holder

Guide pin (Simple)

Surgery (2025-07-16)

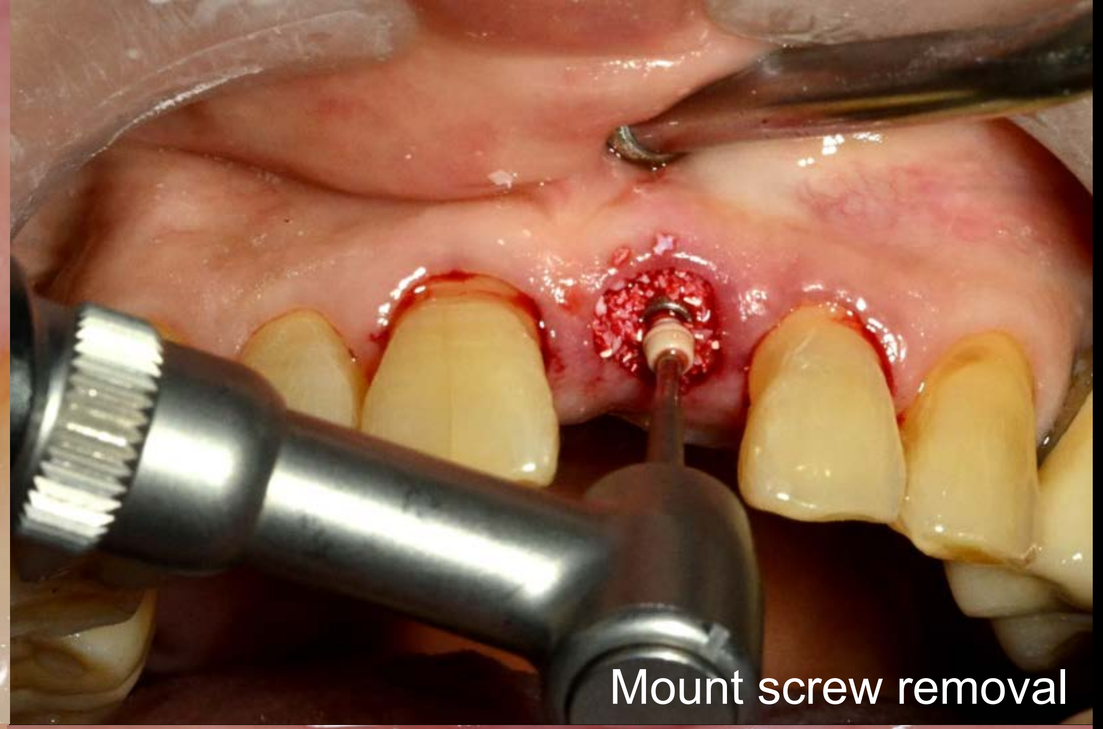
bright TL (Ø3.0 X 11.0)



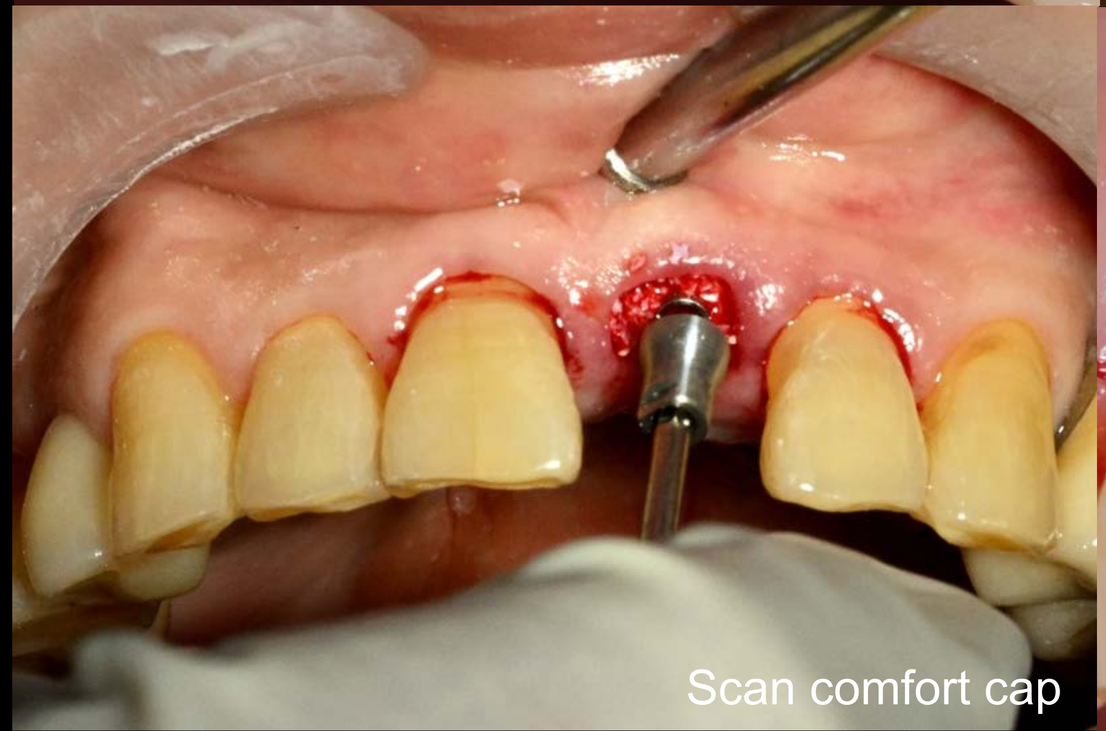
Guide pin removal

OSTEON™ Xeno

Surgery (2025-07-16)



Mount screw removal

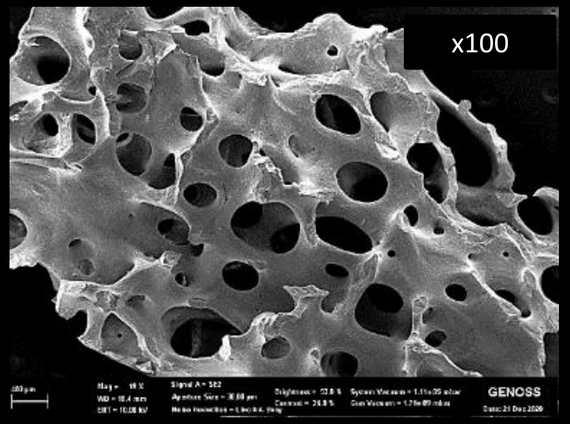


Scan comfort cap

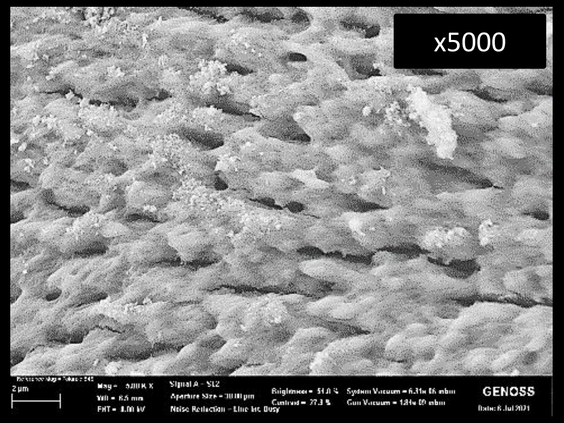
OSTEON™ Xeno

Dentium

- Osteoconductive **natural bovine bone** substitute (similar to human bone)
- Highly interconnected macro/micro-pores
- Excellent Osteoconductivity
- **Easy handling and excellent wettability**
- Complete removal of organic substances
- Type: vial, block



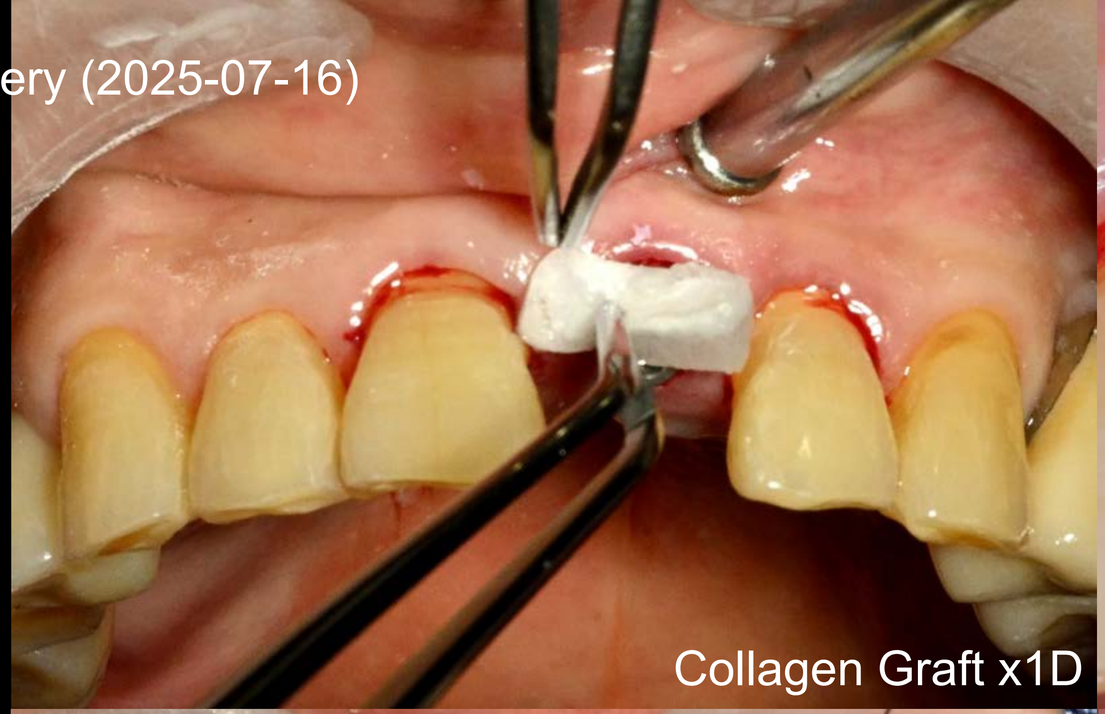
Macropores



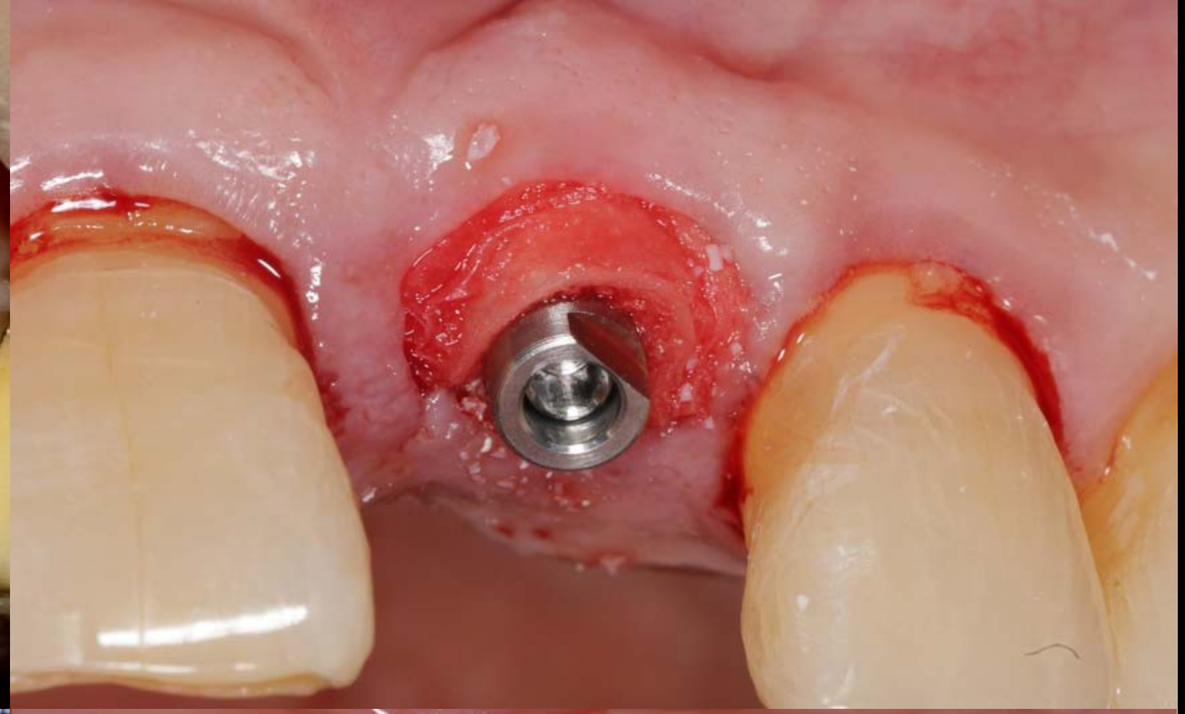
Micropores

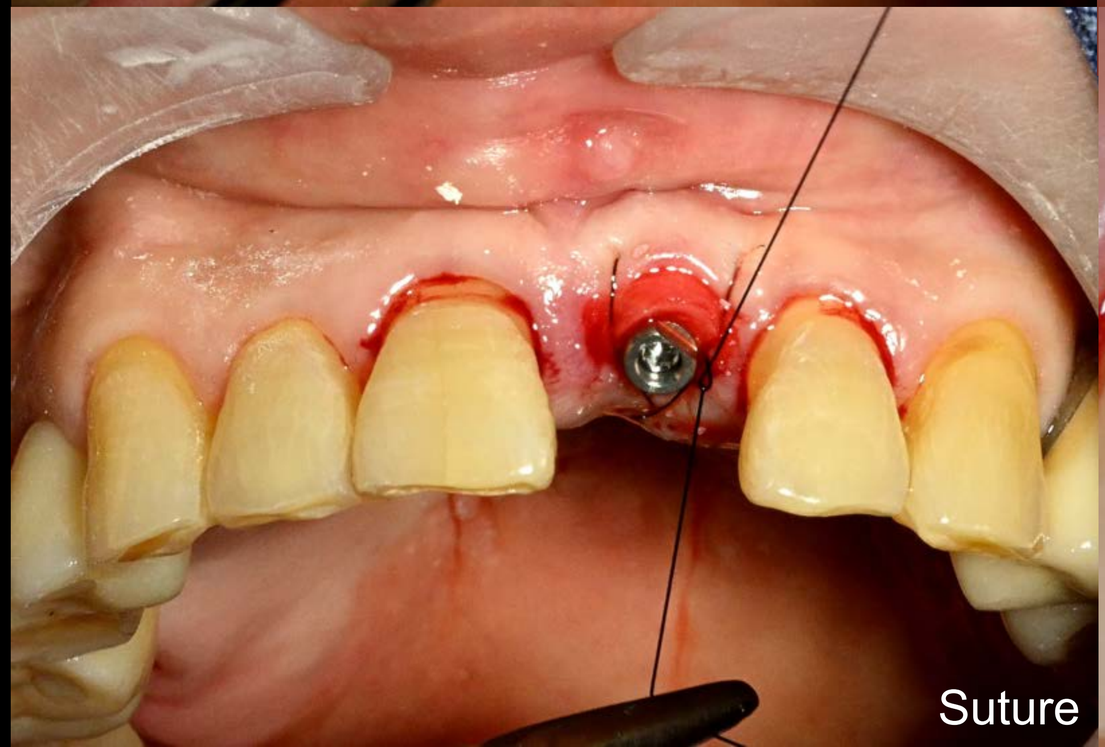
Particle size: 0.2-1.0mm

Surgery (2025-07-16)

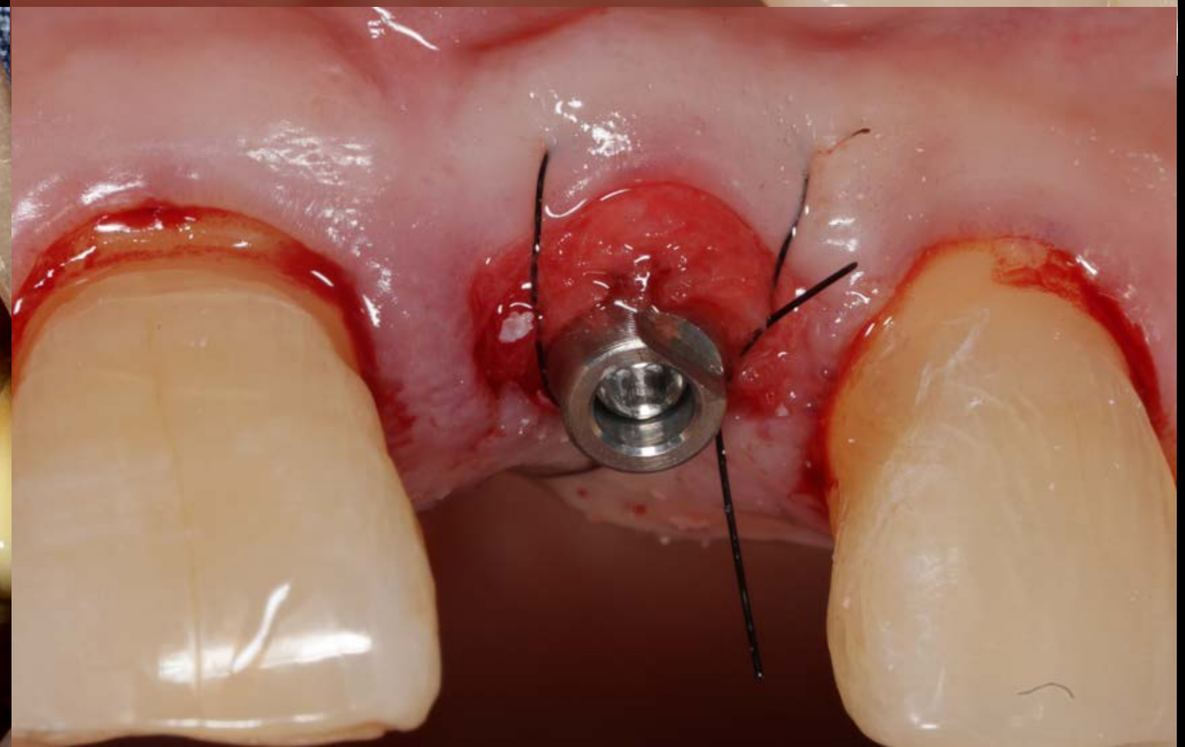


Collagen Graft x1D





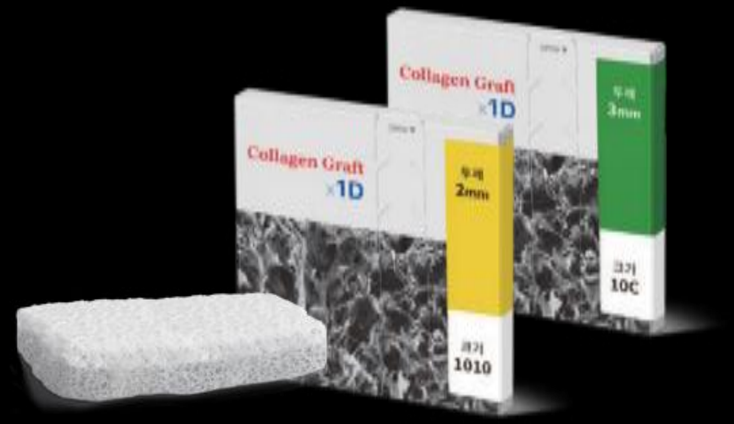
Suture

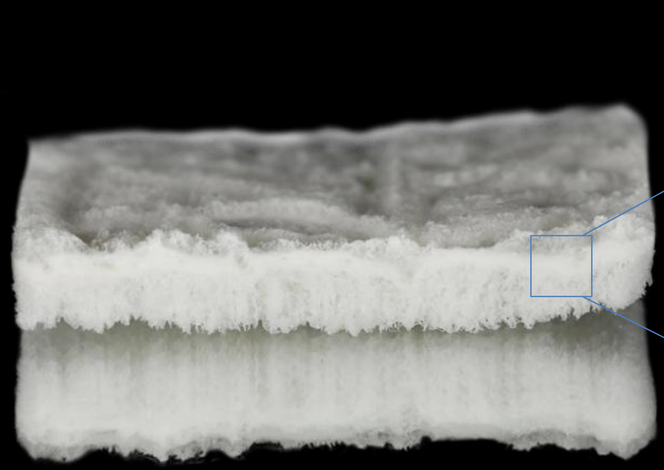


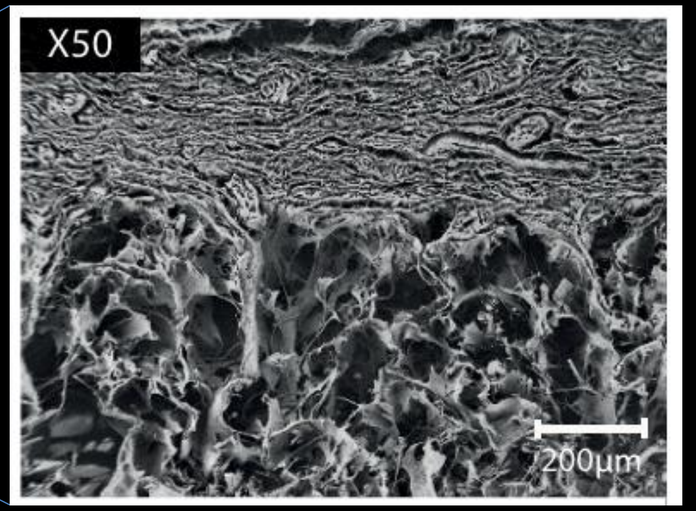
Collagen Graft x1D

Dentium

- **Absorbable Matrix**
- Highly pure Type I Collagen (from porcine tendon)
- **Bilayer structure: Dense & porous layers**
- **Fast soft tissue healing** by epithelialization **(absorbed within 1 months)**
- Applications: Ridge Preservation, Keratinized tissue augmentation, Root coverage, FGG alternative, etc.







Top
(Dense)

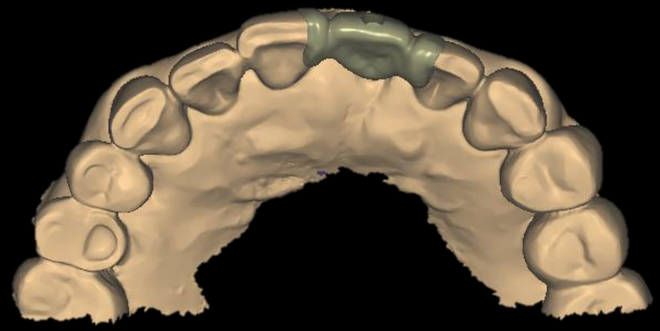
Bottom
(Porous)

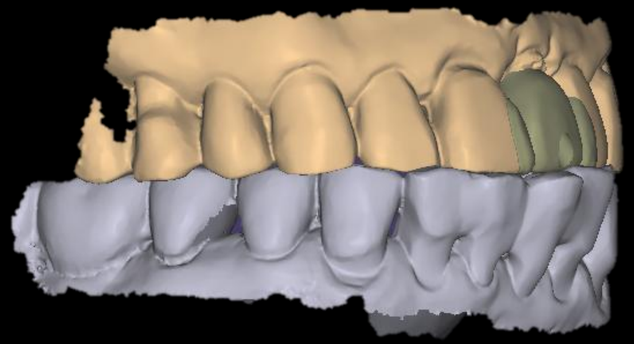
Gap filling between fixture and labial bone is with bone graft

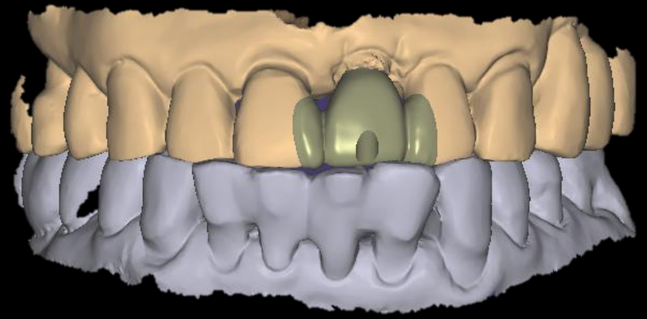
Between healing abutment and labial gingiva is with collagen graft

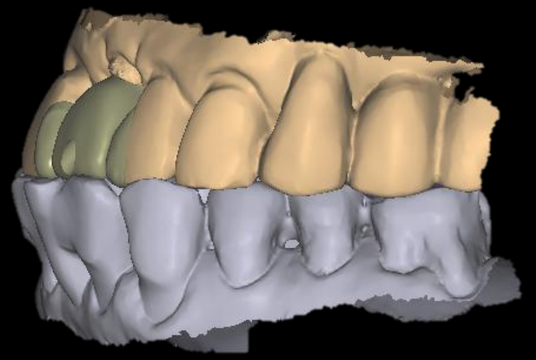
Intra Oral Scan

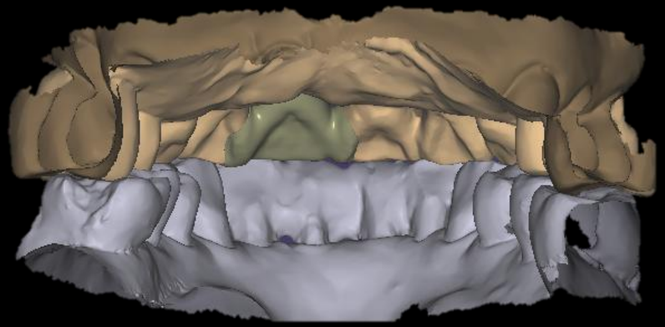
CAD (Temporary)



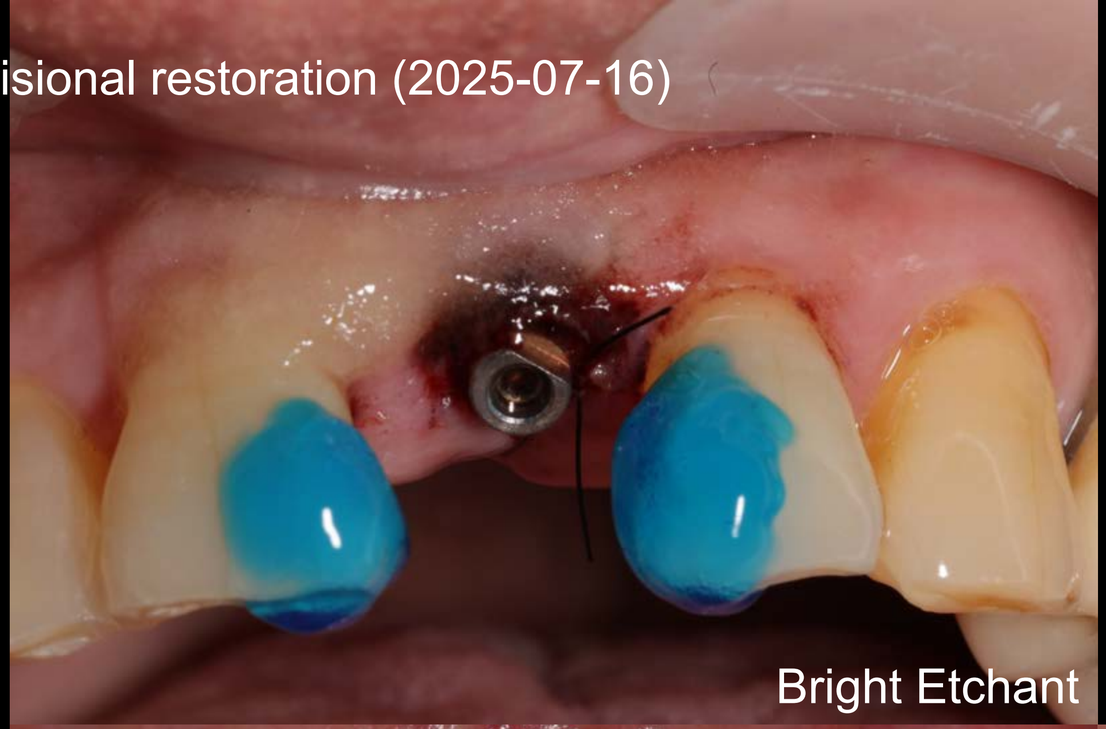








Provisional restoration (2025-07-16)



Bright Etchant

HRF

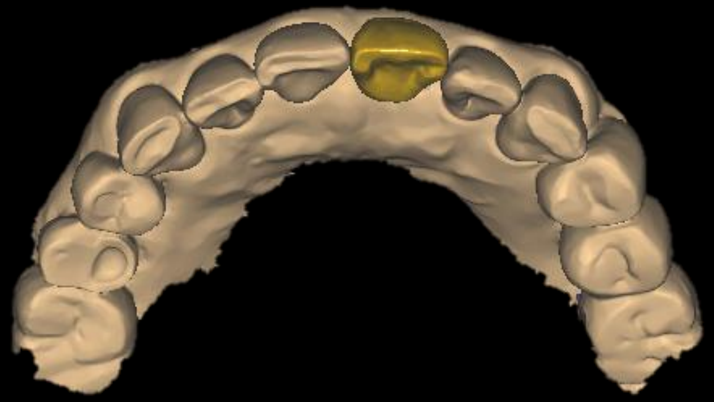
Immediate loading with temporary is required for esthetics

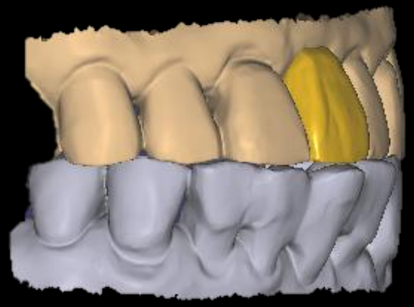
But occlusal force must be spreader with adjacent natural teeth

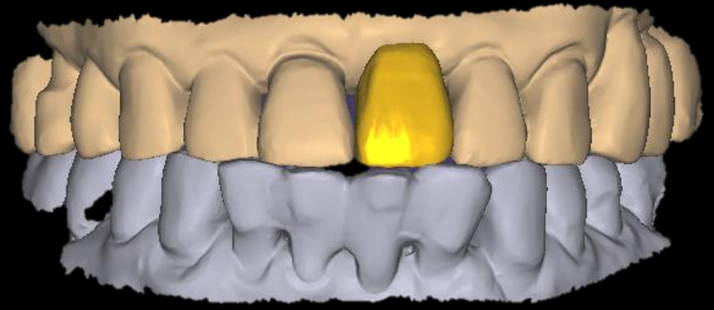
Healing : 1 month (2025-08-13)

Intra Oral Scan

CAD (Final prosthesis)







Final prosthesis (2025-09-17)

Narrow diameter is very effective in ant thin bone

After healing, very simple contour augmentation

- Highly sintered bone is good for labial augmentation to reduce resorption

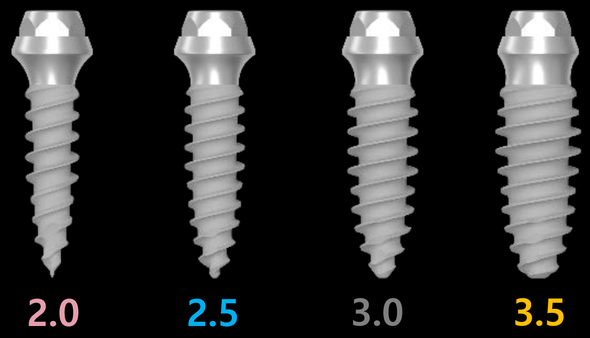
Thin labial bone to fixture can be maintained thin fixture

- The ideal labial bone from fixture is different with fixture diameter

  ex : over 4mm - 2mm, 3.5mm - 1.5mm, less 3mm - 1mm

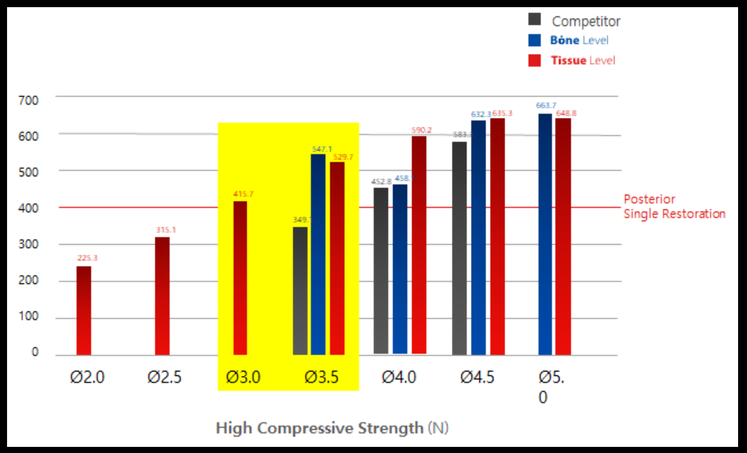
Short and Narrow, but Strong : bright Implant

Dentium



#42 (bright TL 2.5 X 11.0)

#47 (bright TL 4.0 X 7.0)



Advantages of Short & Narrow Implants

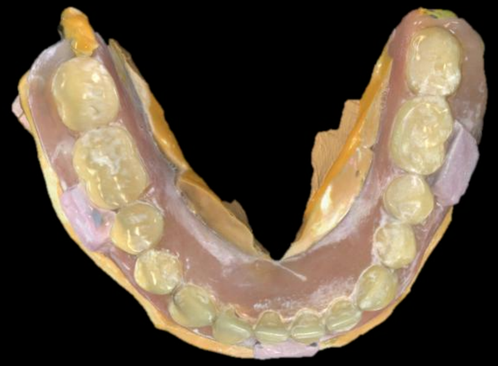
✓ **Applicable in limited bone conditions**
Can be placed in areas with reduced bone height or width without the need for extensive grafting.

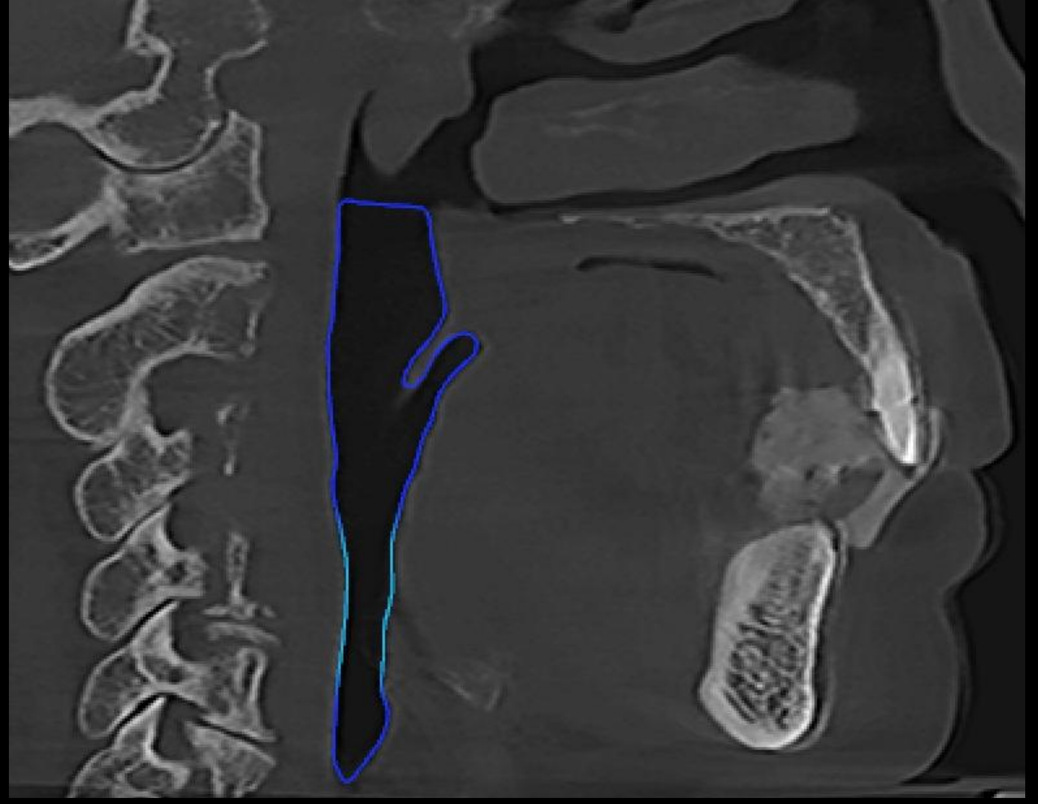
✓ **Minimally invasive surgery**
Requires less drilling in both depth and diameter, resulting in simpler procedures, less bleeding, reduced discomfort, and faster healing.

✓ **Avoidance of anatomical structures**
Allows safe placement near critical areas such as the maxillary sinus or the mandibular nerve.

✓ **Preservation of surrounding bone and soft tissue**
Maintains more of the natural bone and tissue, which supports long-term stability and esthetics.

✓ **Enhanced stability through optimized fixture design**
bright TL Implant feature an external connection that provides reliable stability, while bright BL Implant utilize a deep connection for a secure fit.
Both types share double and aggressive threads, long cutting edges, and a dome-shaped body, ensuring strong primary stability and predictable long-term outcomes.



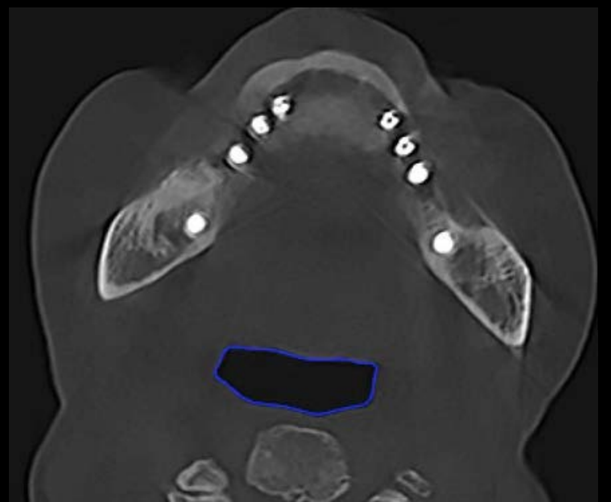


Before
2024.03

After
2025.07
(VD 3mm)

Total Volume : 16.29 cc
Min Area : 109.60 mm2
Area : 111.72 mm2
AP : 7.00 mm
LR : 28.20 mm
100 300

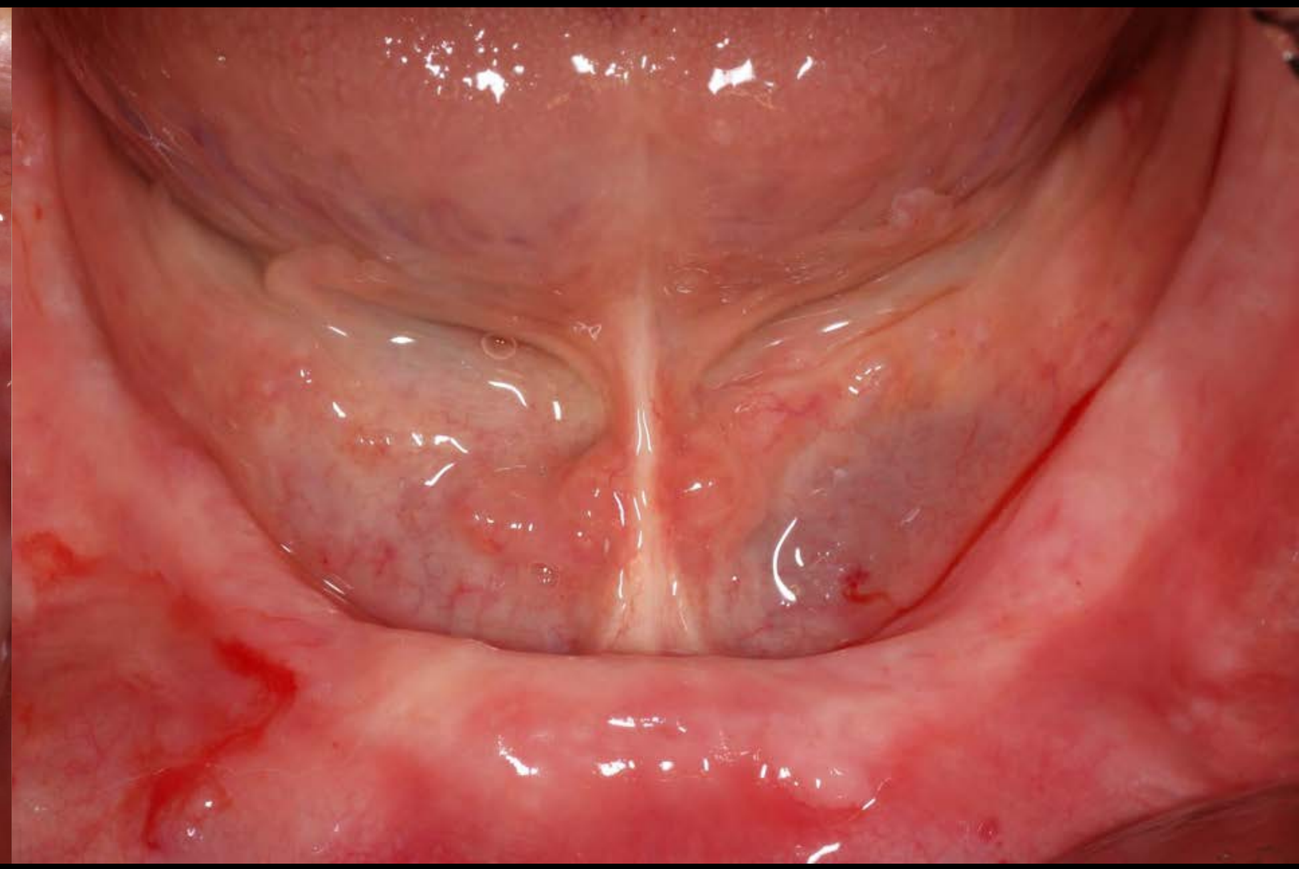
111.72



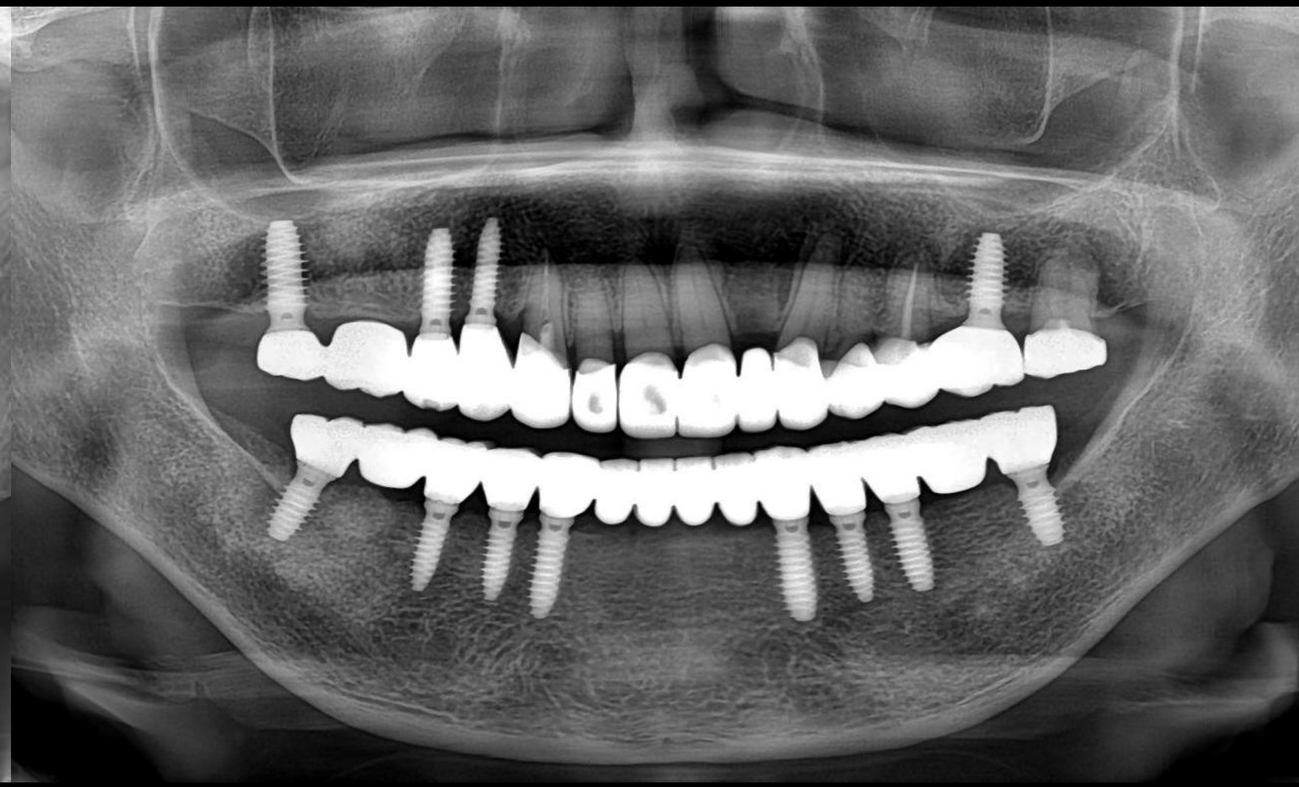
Total Volume : 24.07 cc
Min Area : 240.92 mm2
Area : 330.24 mm2
AP : 13.80 mm
LR : 32.60 mm
100 300

330.24

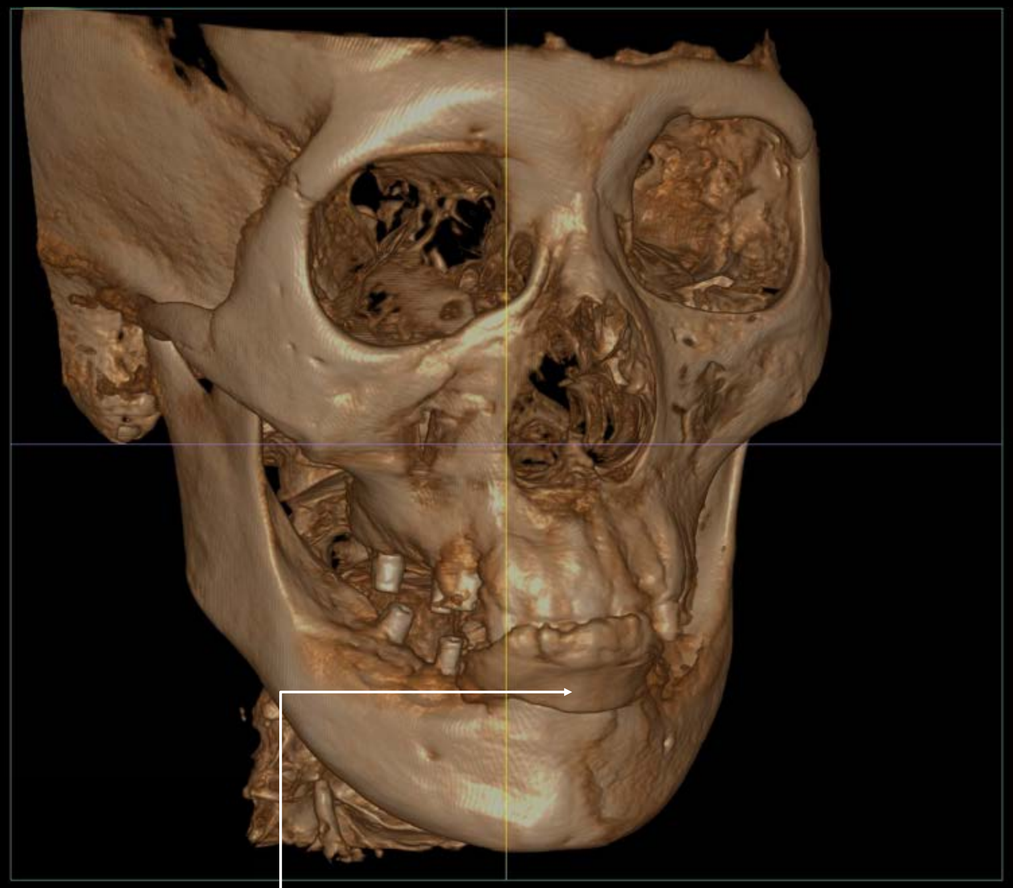
Pre-op (2022-02-06)

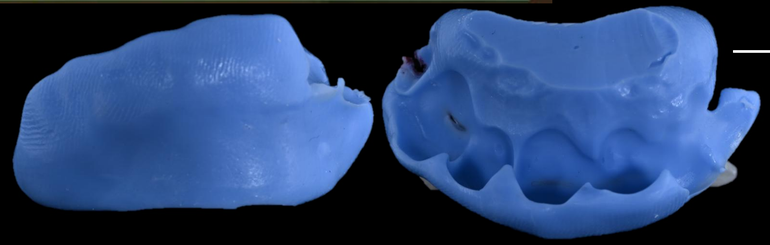


bright Implant



Putty index

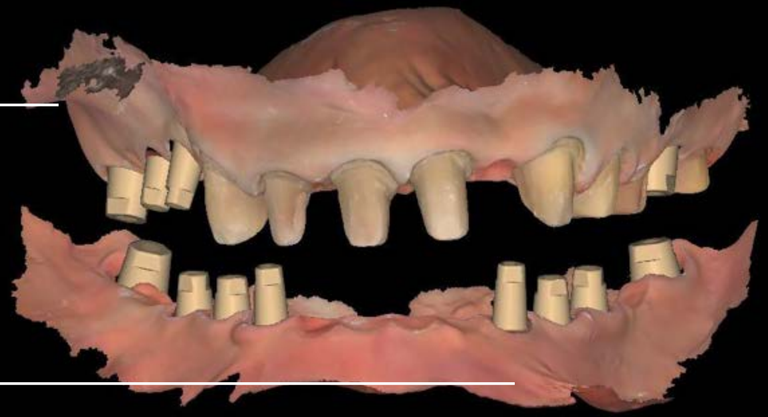




For the final prosthesis, after increasing the VD, take the final CT using a putty index based on the occlusion of the provisional restoration

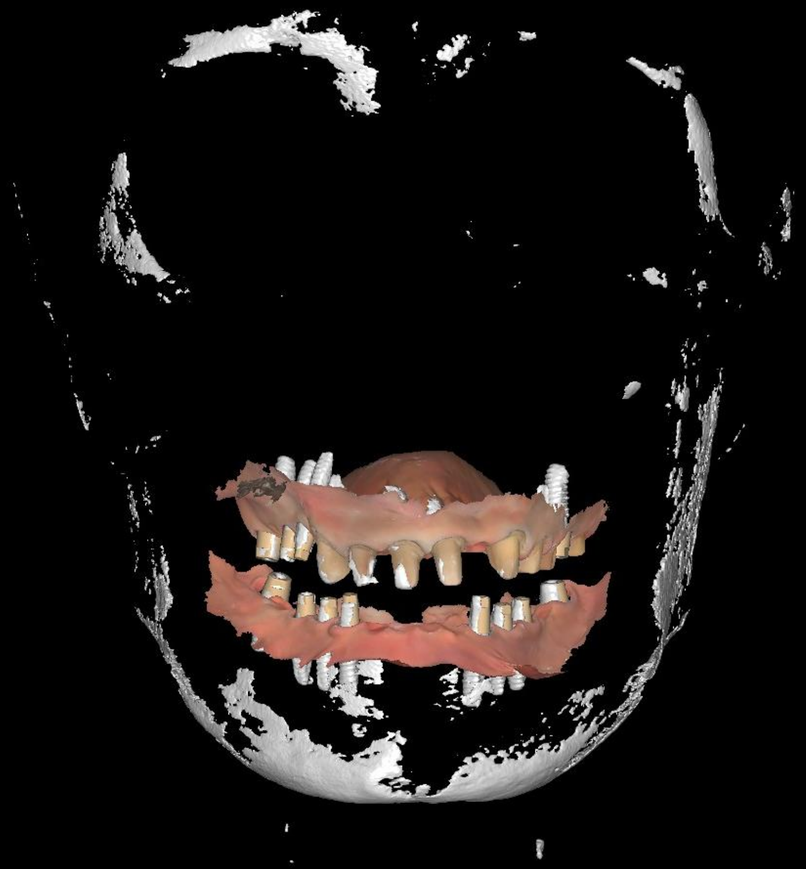
CT Check Bite

CT Check bite



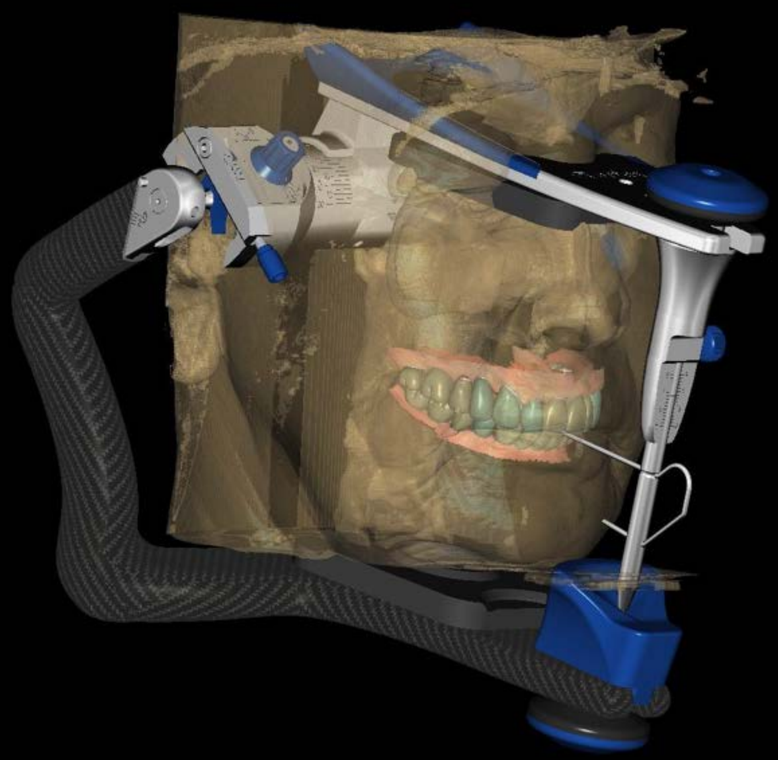
Shining 3D Aoral 3 Wireless data

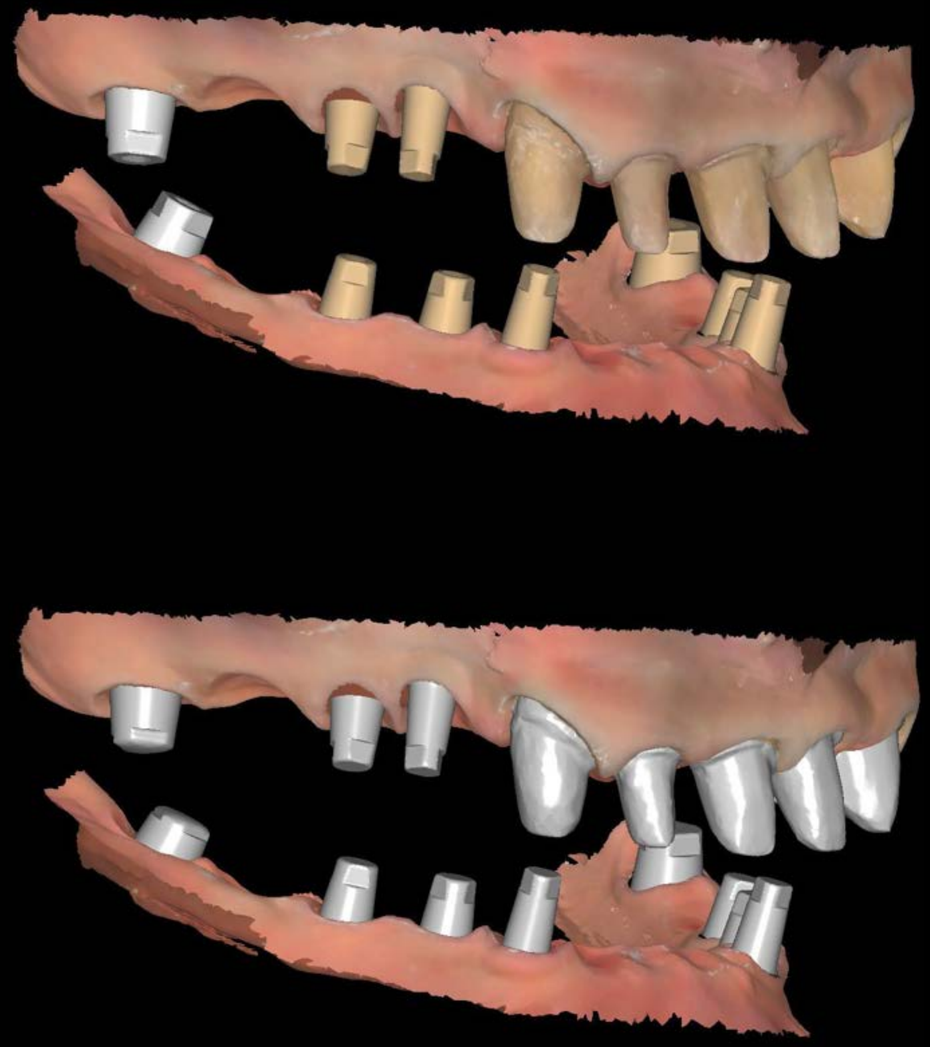
CT Check Bite



CT Check bite + Intra Oral Scan data

CAD Design



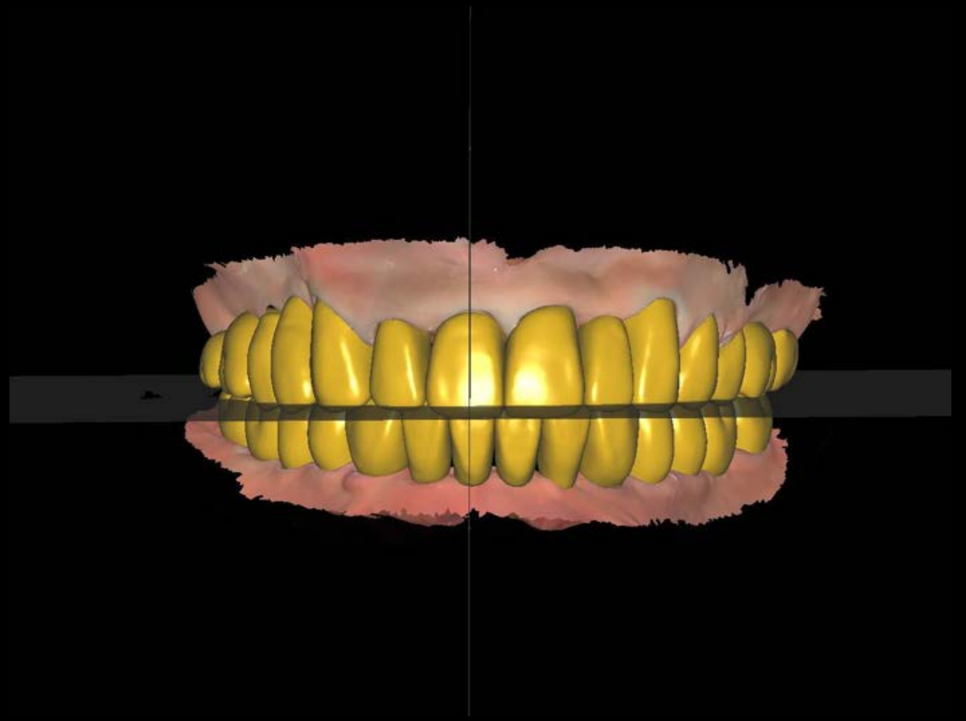


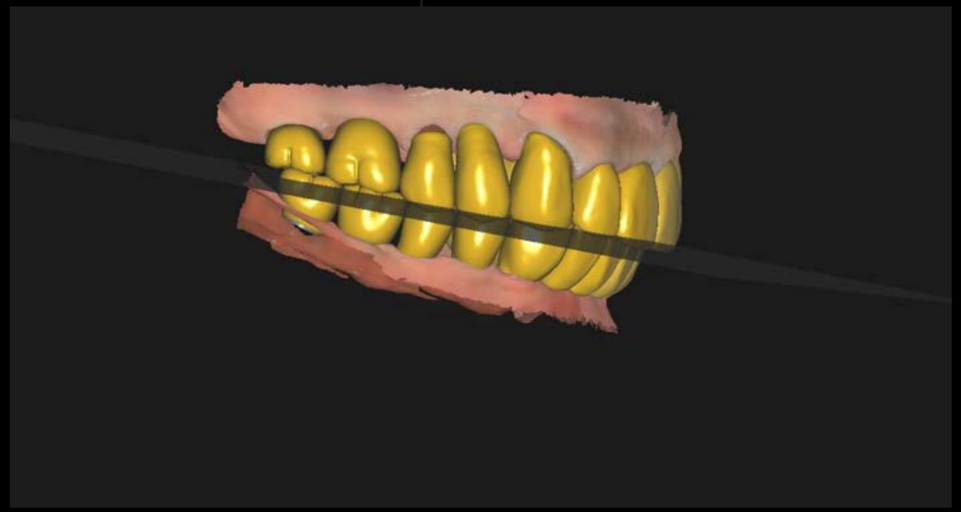
Final Design VD 1mm Up

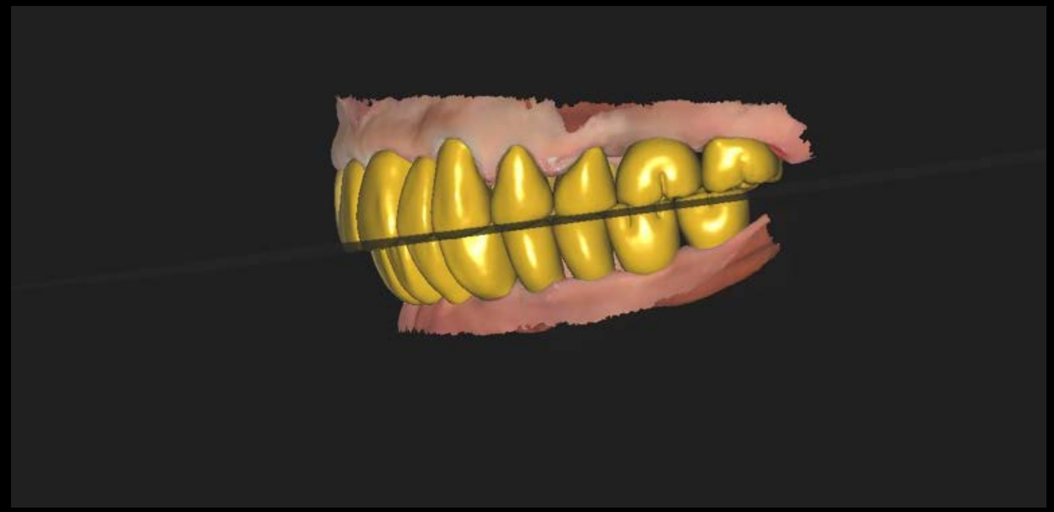
bright Implant

All bright Digital abutment & Ti base abutment

CAD Design

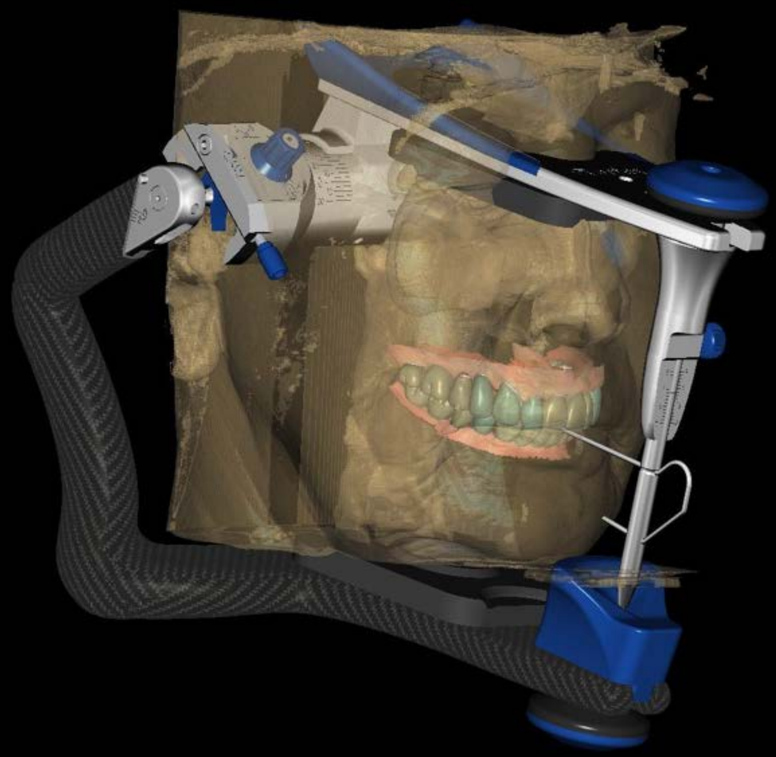




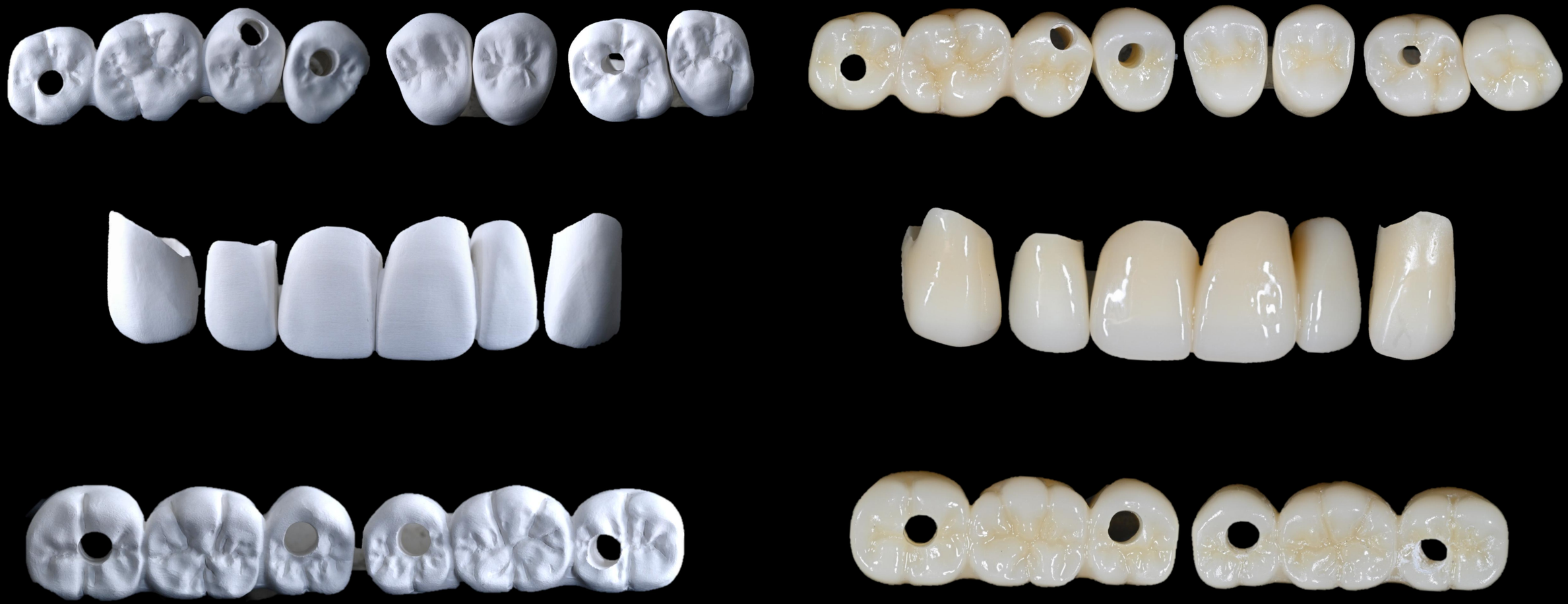


CAD Design

Virtual Articulator



Zirconia Block



bright 3-Layer

No Coloring & Staining

Zirconia Block

rainbow™
Shine-T

Maximum Strength
Natural Aesthetic

Final Prosthesis

Final Prosthesis

Before

After

Final Prosthesis

Hyaluronic Acid Dermal Filler

MONALISA

Long-term Volume Up

Dentium Dental Clinic
SM Chung

** 41p Filler VOD 1

Before & After

Before & After

Clinical case : Nasolabial folds & Marionette Line & Lip

Contents

Bright implant

Narrow and short implants

Bone regeneration materials

Simple and exact digital concepts

Filler and toxin in dental field

bright Implant

bright
Implant

2002

2007

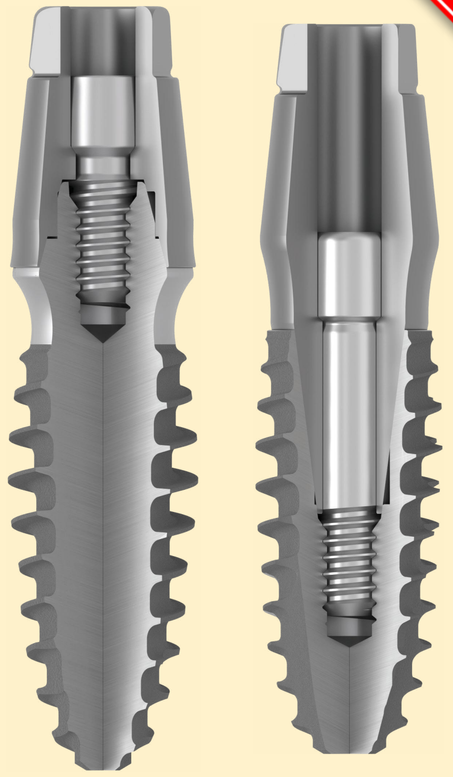
2009

2013

2014

2019

NEW



bright Implant

“The Next in Implant?”

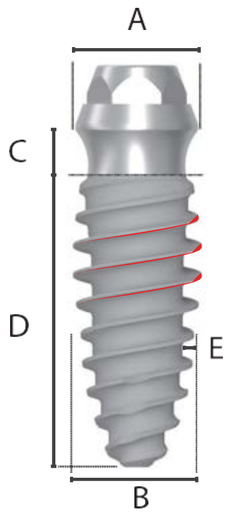
Minimal Surgery

Simple Digital

Bone Level

Tissue Level

Tissue Level



Unit: mm

		Cap Color						
		Pink	Sky blue	Gray	Yellow	Green	Blue	Red
A	Platform Diameter	3.8						
B	Body Diameter	2.0	2.5	3.0	3.5	4.0	4.5	5.0
C	Gingival Height	1.5						
D	Thread Length	7.0 / 9.0 / 11.0 / 13.0 / 15.0						
E	Thread Depth	0.15	0.30	0.45	0.50	0.55	0.60	0.60

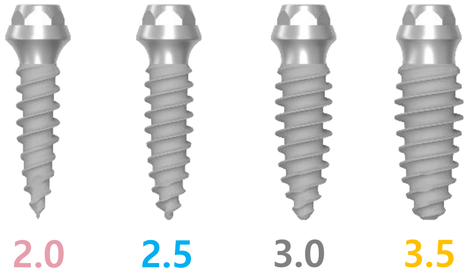
Unified Feature

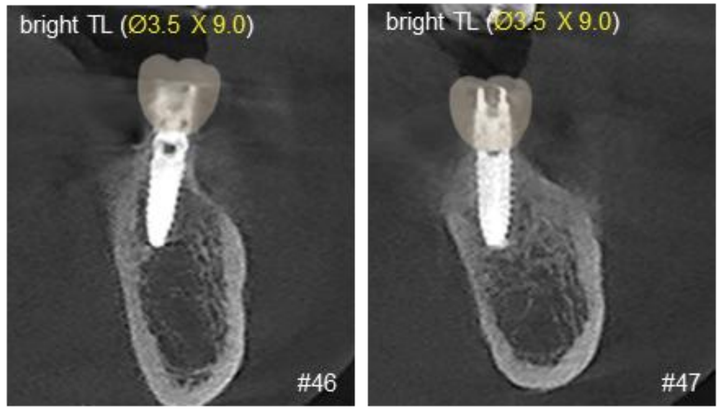
- **Platform Diameter : Ø3.8mm**
- **Gingival Height : 1.5mm**

Tissue Level

✓ Narrow, Yet Strong

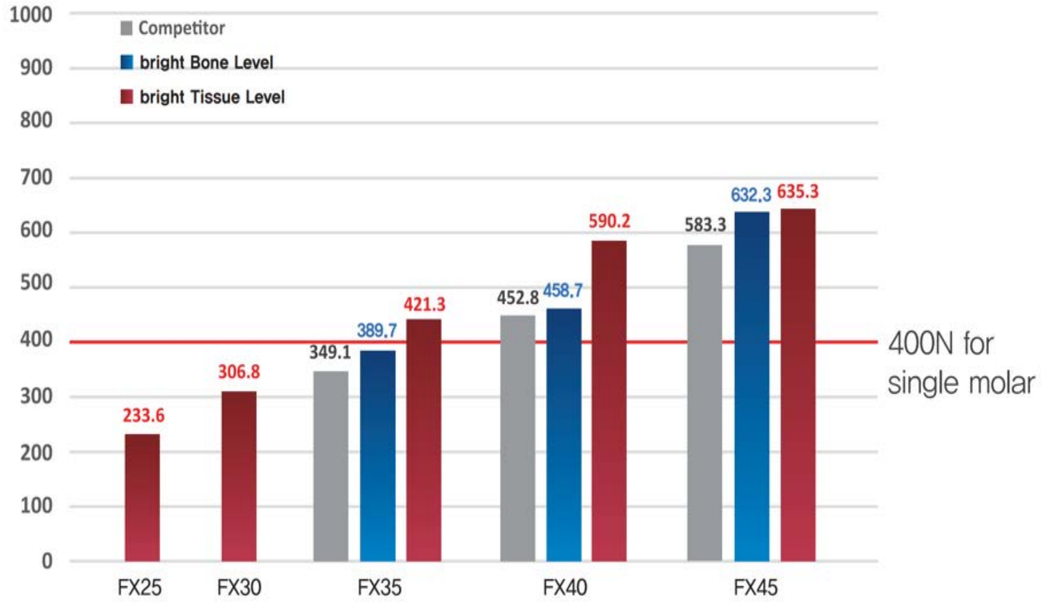
- Excellent Joint Stability





Ø3.5 Implant can be used in Molar Area

High Compressive Strength

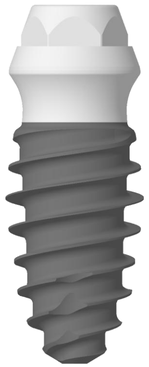


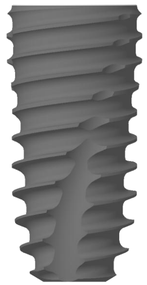
※ Caution : heavy bruxer or hard food bite

Comparison of Fixture Surface Area

✓ Comparison of Bone-to-Implant Contact Surface Area

The bright TL Fixture, which has a total length 1mm shorter than the SuperLine2, shows a larger bone-to-implant contact surface area

	bright Tissue Level		
			
	FX35	FX40	
7mm	98.327	123.513	+3.1%
9mm	128.654	160.495	+5.5%
11mm	165.865	204.743	+9.7%

	SuperLine 2	
		
	FX36	FX40
8mm	107.442	119.799
10mm	136.569	152.187
12mm	167.008	186.718

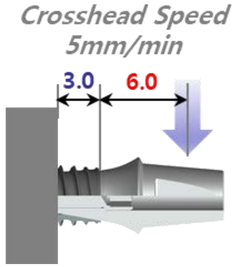
* FX35(bright)/FX36(SuperLine)

→ Not comparable due to different standard diameters

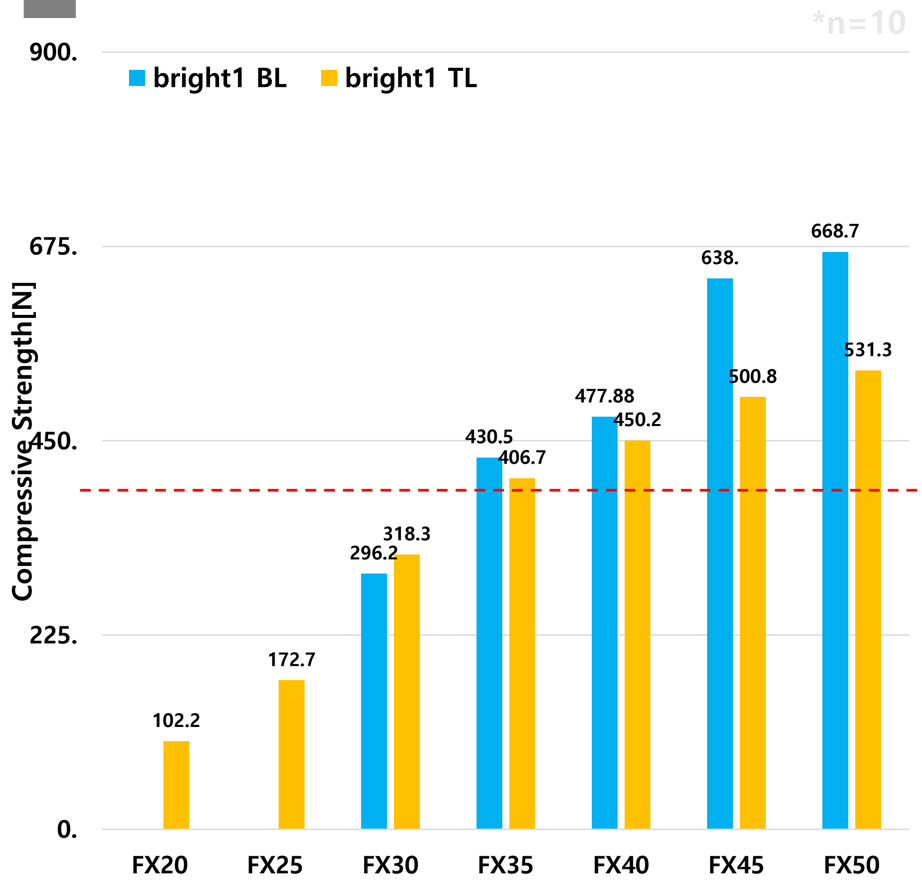
Fixture 강도평가

bright

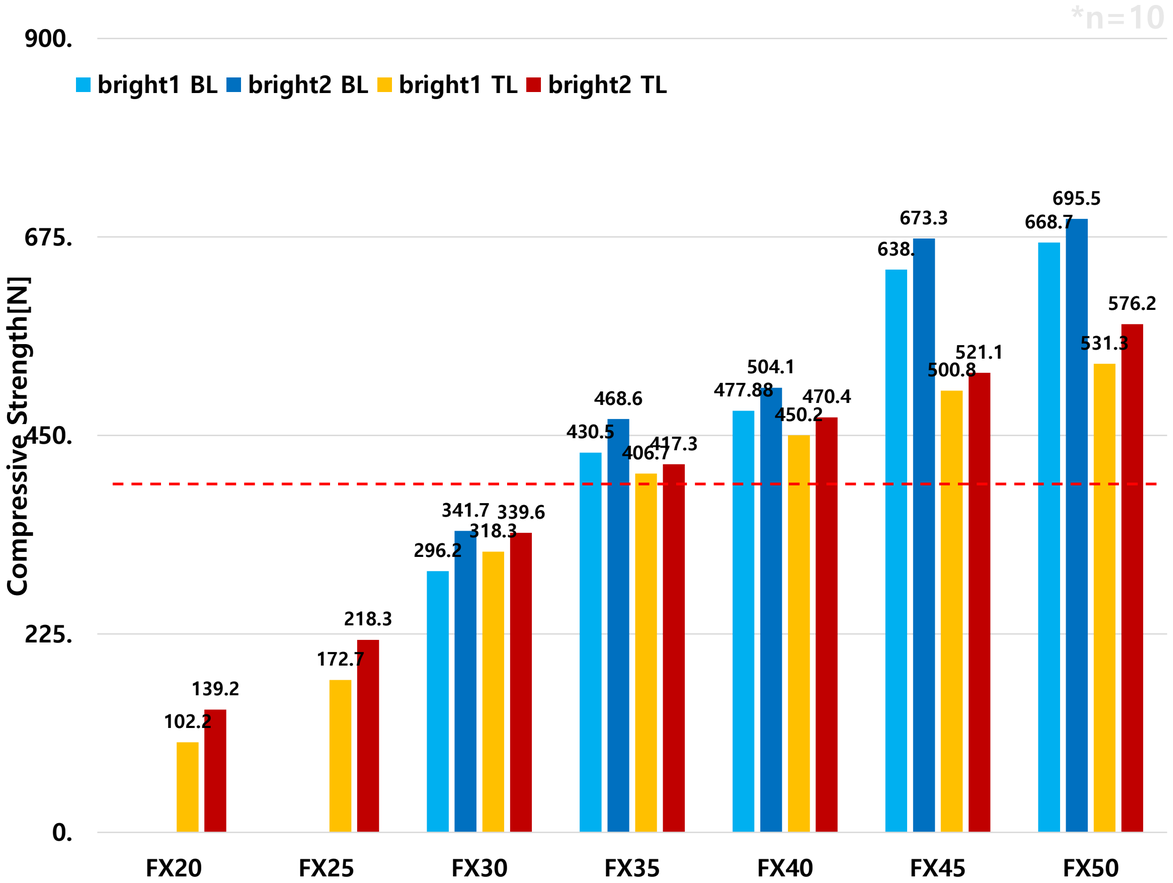
✓ Strength Evaluation Results under Bone Loss Conditions



bright1



bright1,2

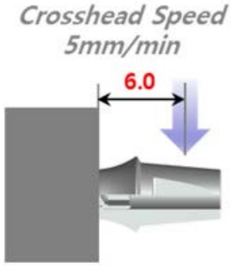


Posterior
Single Restoration

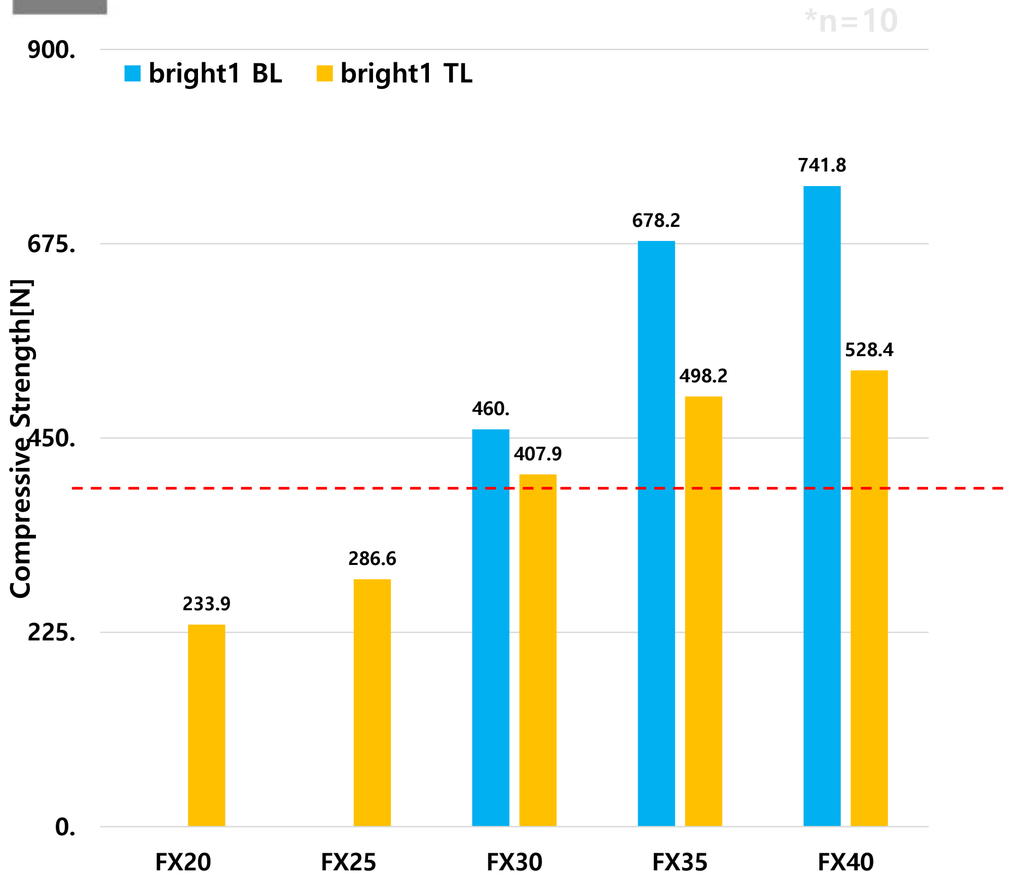
Fixture 강도평가

bright

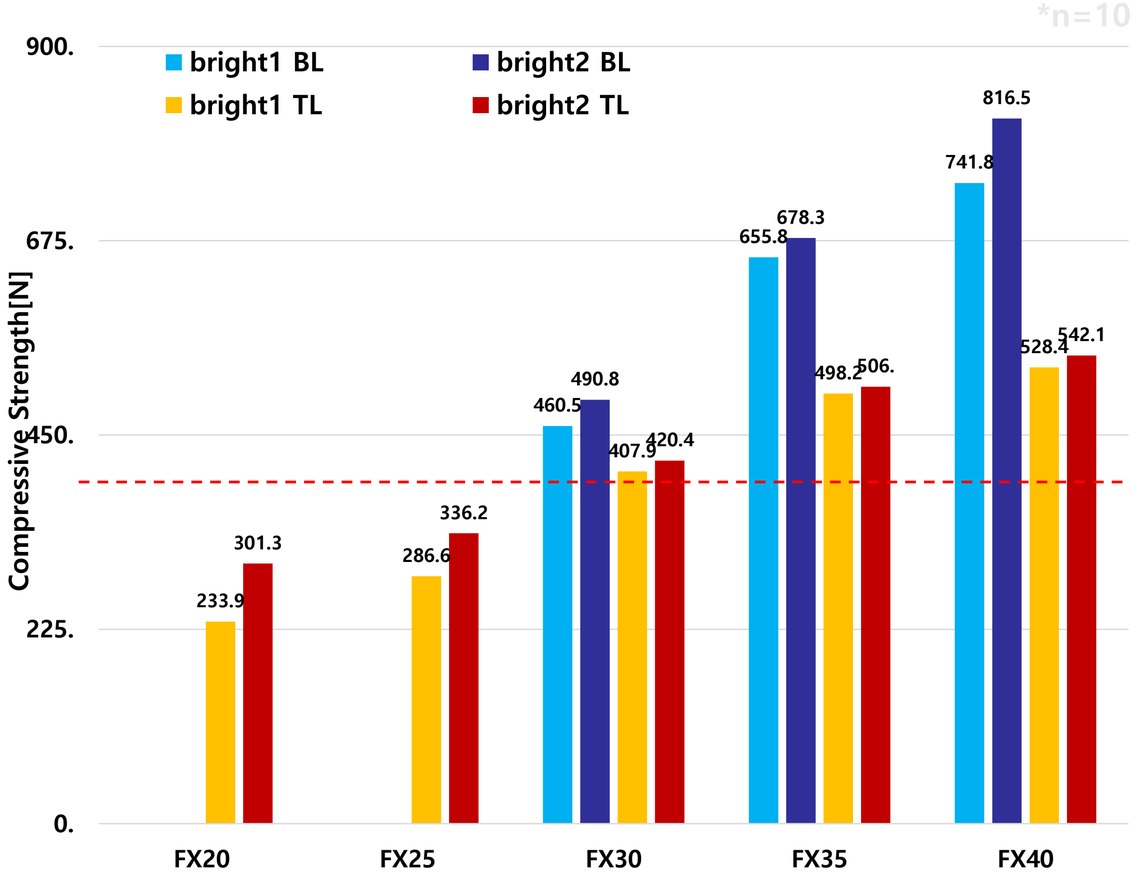
✓ Strength Evaluation Results under Non-Bone Loss Conditions



bright1



bright1,2

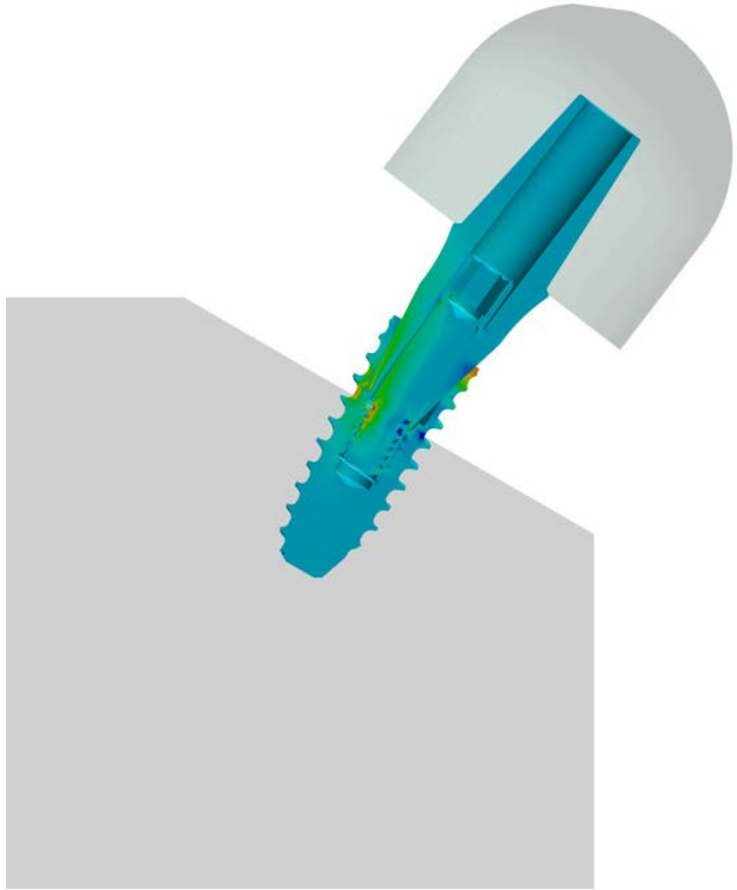


Bone Level

bright

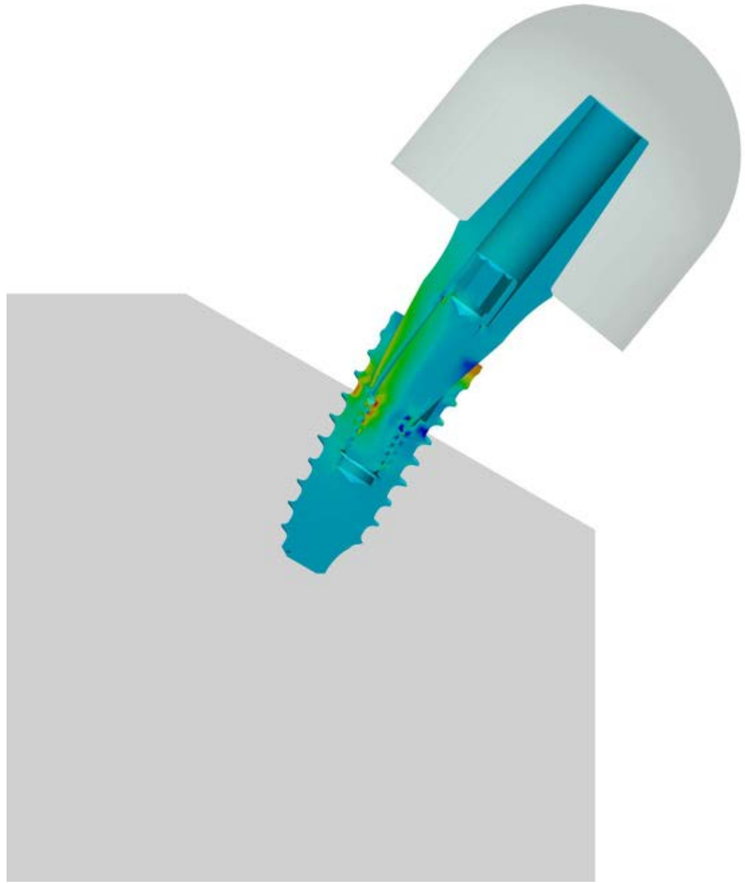
✓ Strength Reinforcement FX30 FEA

Current



2610.3MPa

Improvement Plan



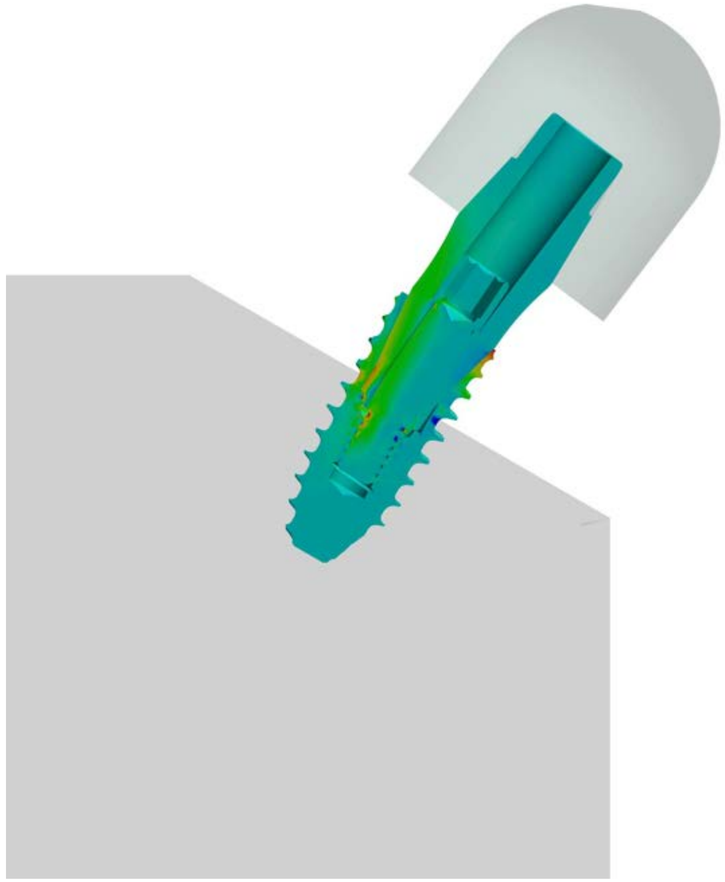
2297.9MPa

Bone Level

bright

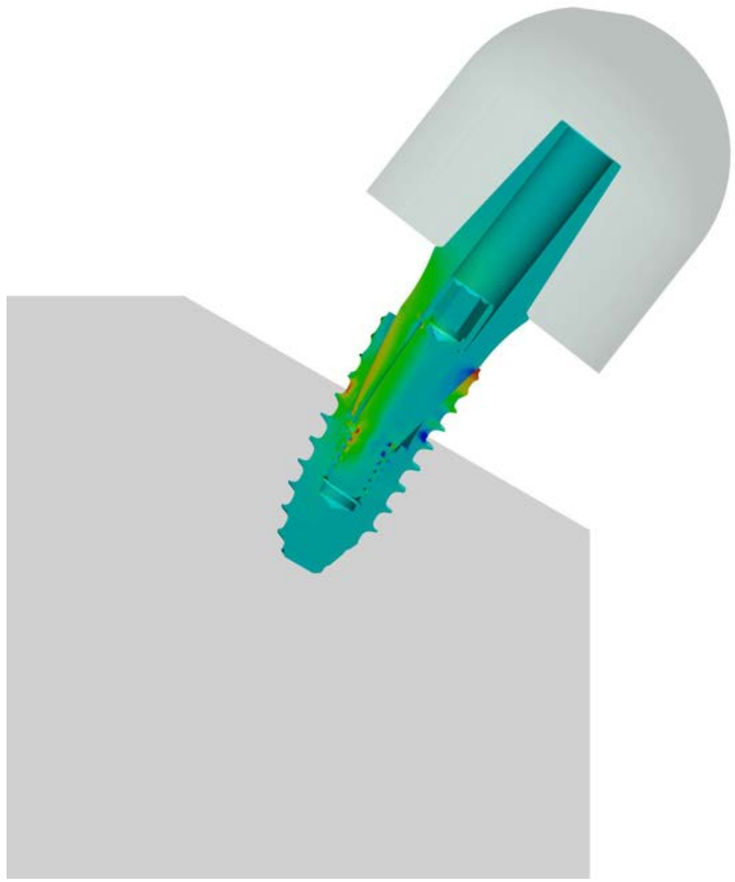
✓ Strength Reinforcement FX35 FEA

Current



1386.5MPa

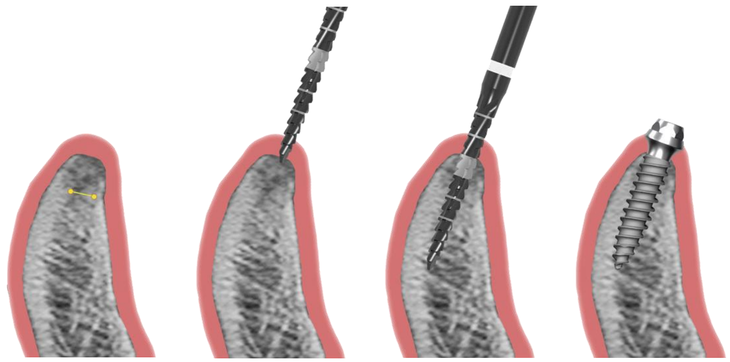
Improvement Plan



1147.1MPa

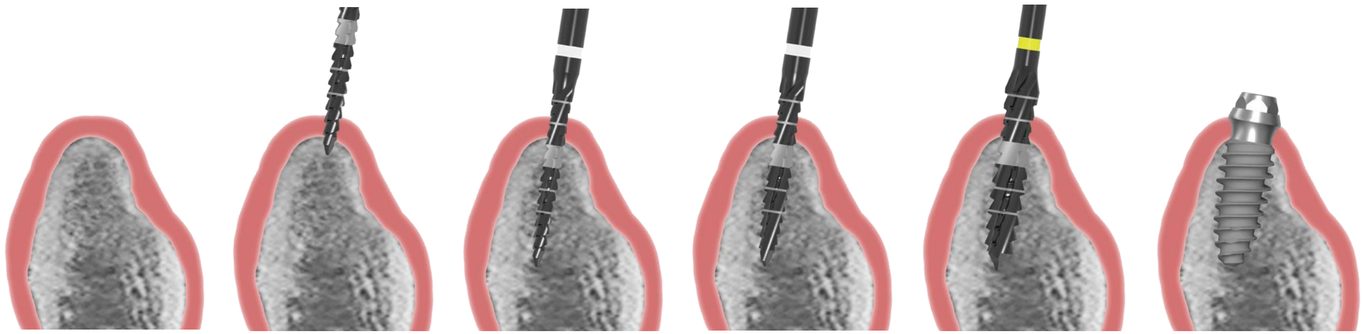
Minimal Surgery

1



Cancellous bone width **2.46**mm | Scoring | Guide Drill ø**2.5**mm | Fixture ø**2.5**mm

2



Cancellous bone width **3.55**mm | Scoring | Guide Drill ø**2.5**mm | Final Drill Ø3.0mm | Final Drill Ø3.5mm | Final Drill Ø3.5mm

Drilling and Fixture Insertion

in the Cancellous Bone Only

Simple Digital Prosthetics

bright Implant

Digital Abutment

Healing Abutment + Scan Body + Impression Coping + Permanent Abutment

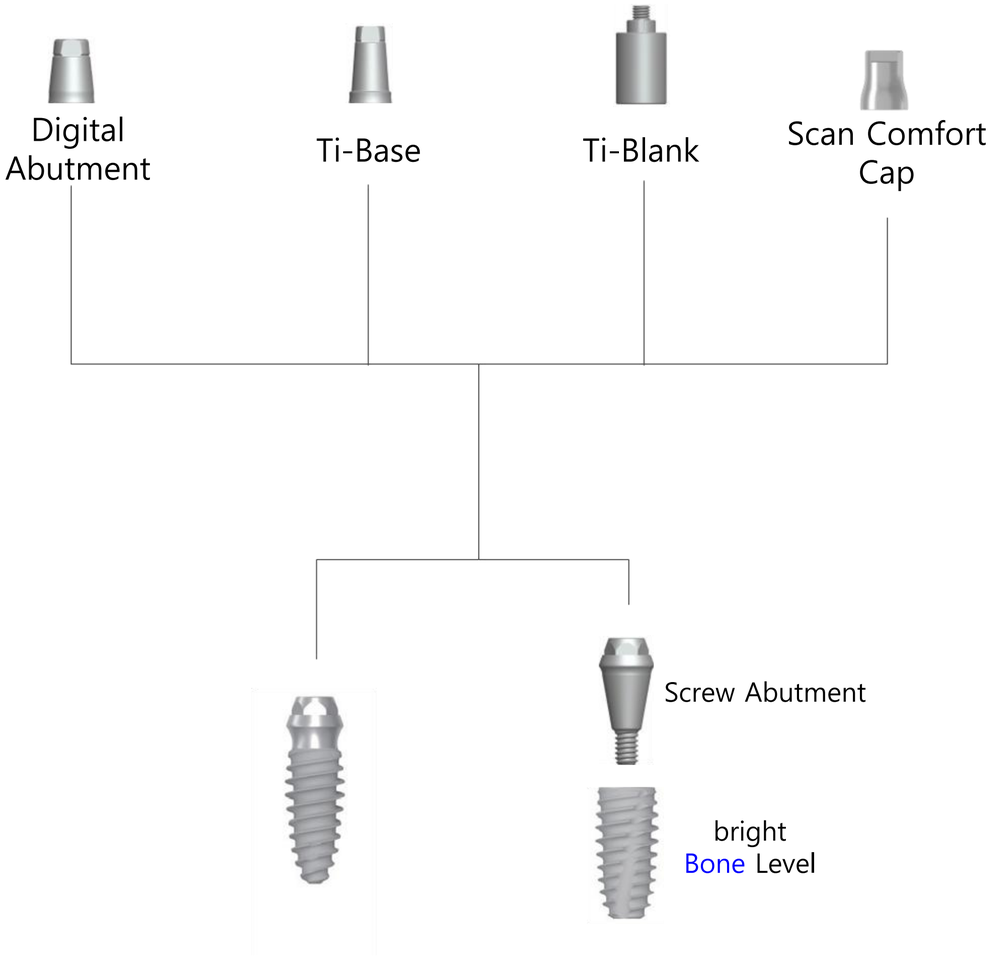
From healing to final prosthetics,

with Only One Abutment

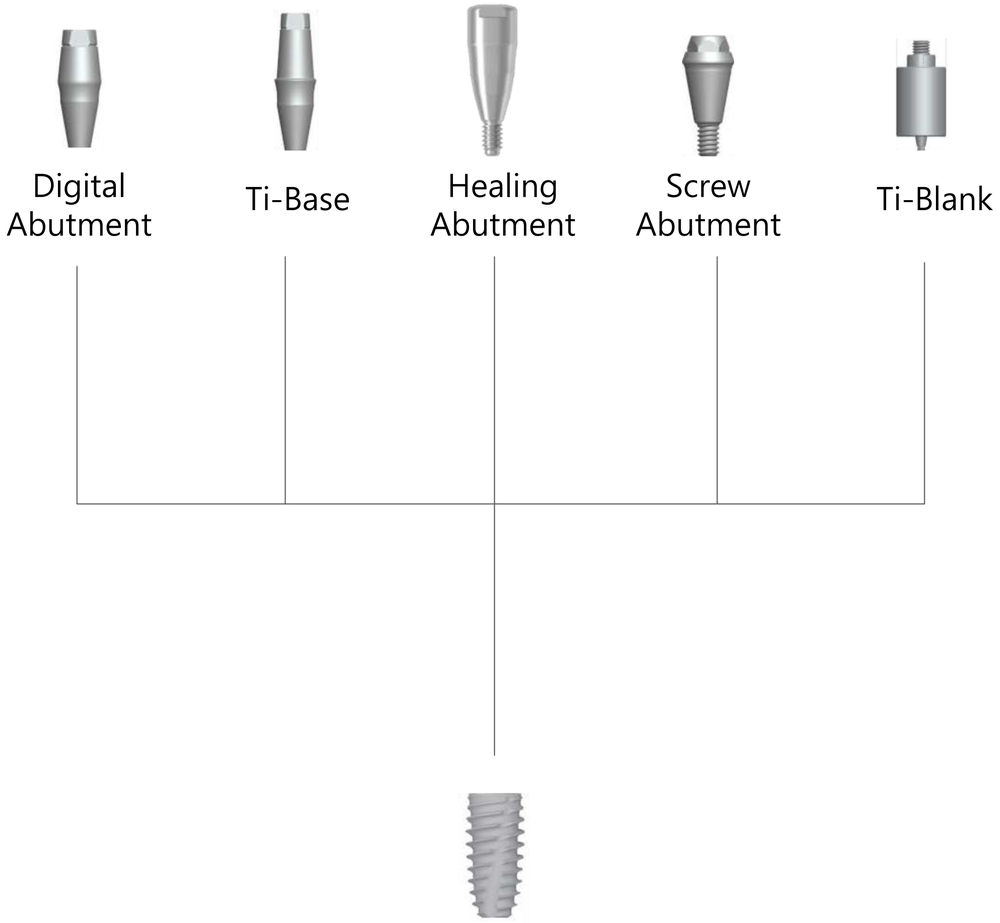
Simple Digital Prosthetics

Note. Total Abutment Procedure Line-Up

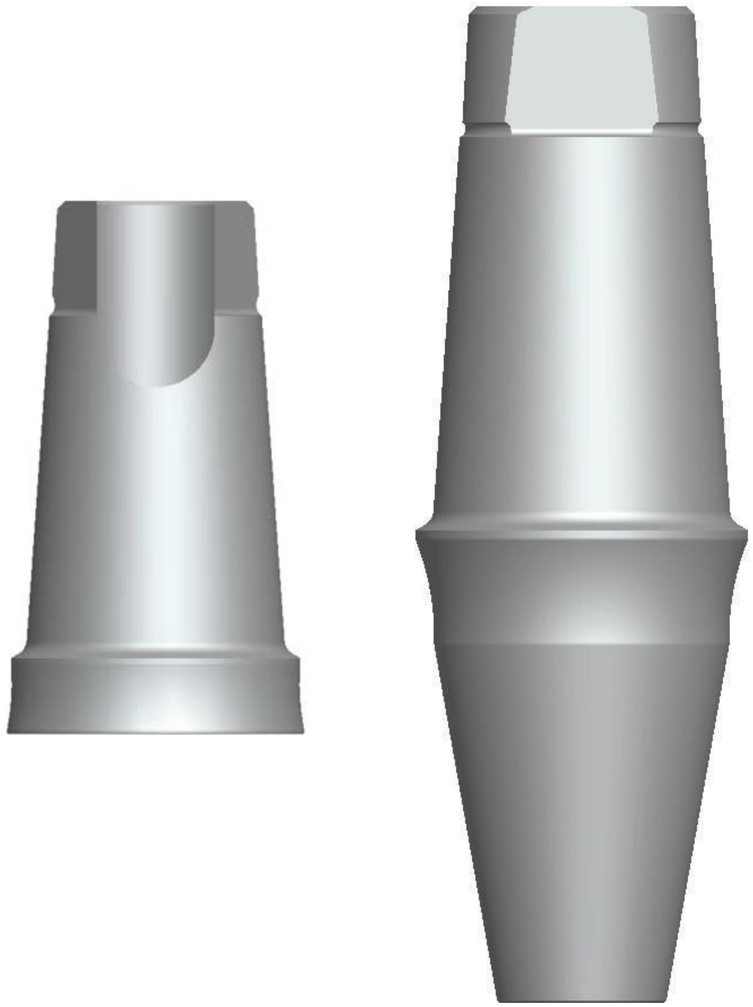
Tissue Level Abutment

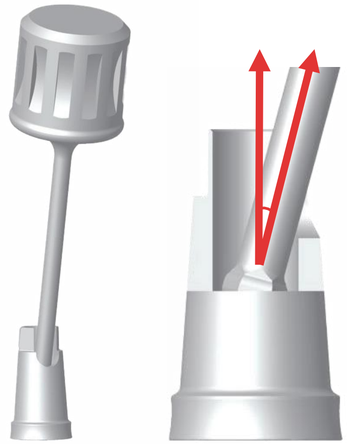


Bone Level Abutment



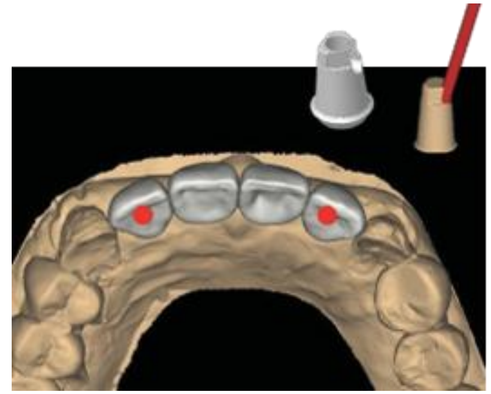
Ti-Base





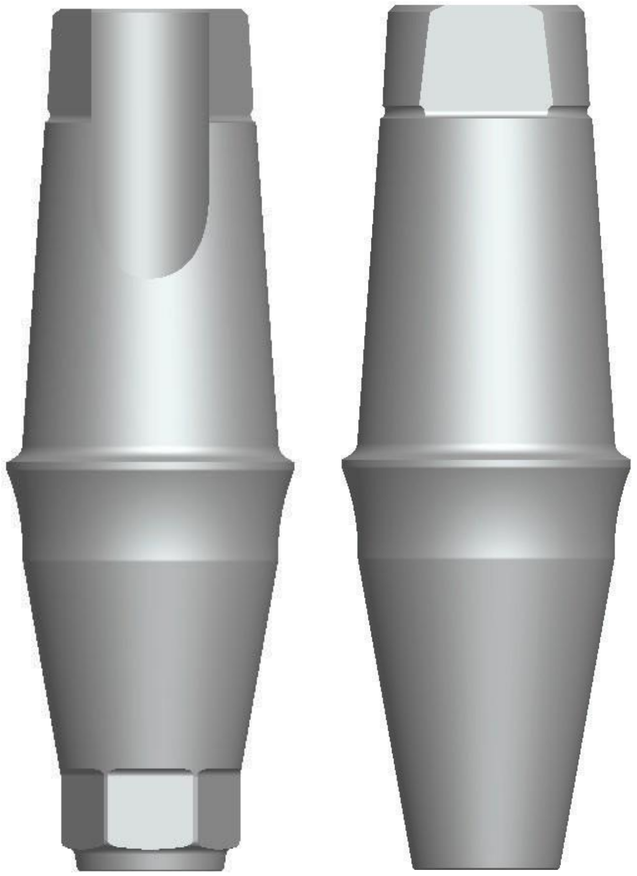
Angled Screw Driver allows

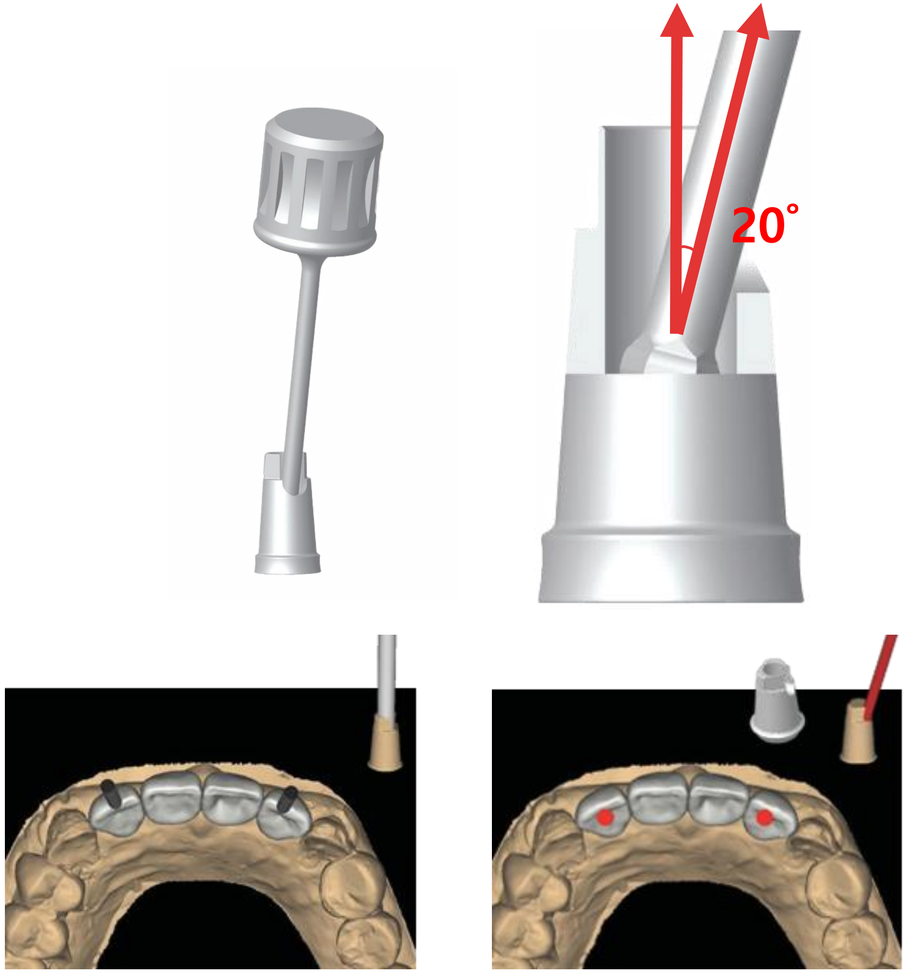
engagement tilted up to 20˚



Simple Digital Prosthetics

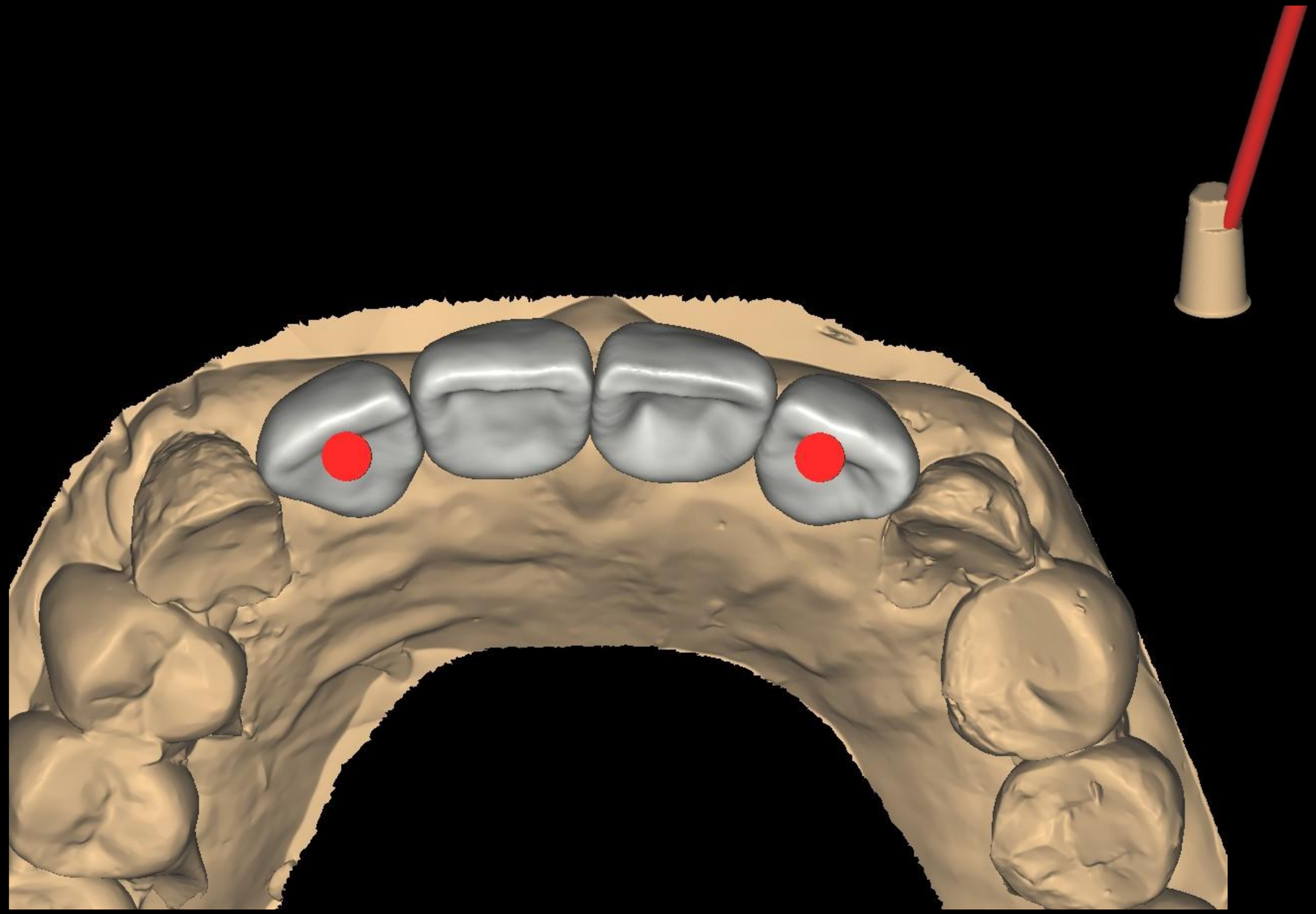
Ti - Base





Angled hex driver allows engagement tilted up to 20°

bright Implant Abutment



Ti base Abutment

bright Implant Abutment

Ti base Abutment

bright Implant Abutment

Provisional crown straight hole

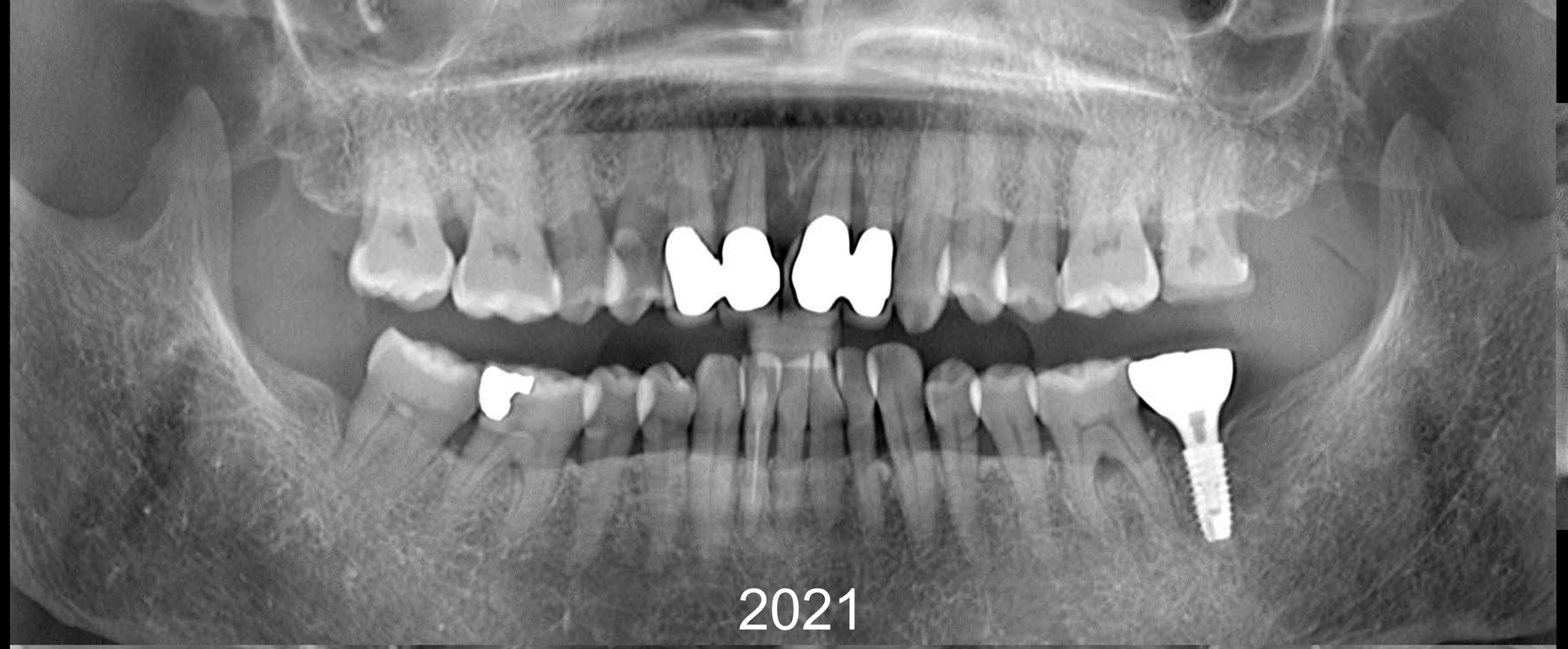
Final crown Angled hole

3 layer block x42ix31ix

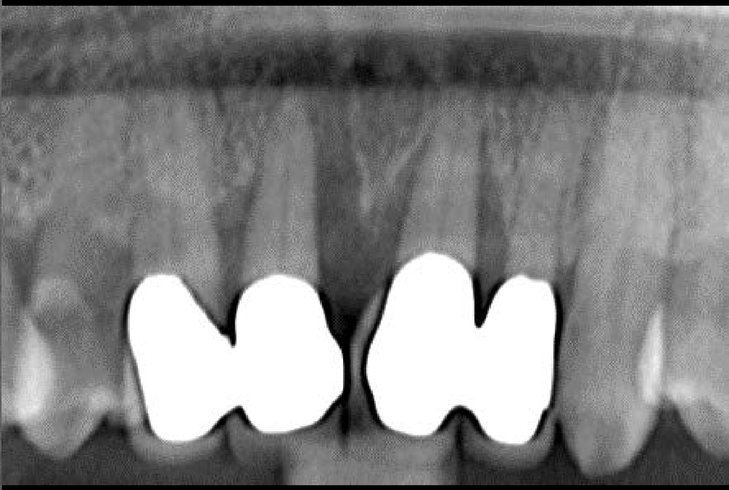
Screw hole

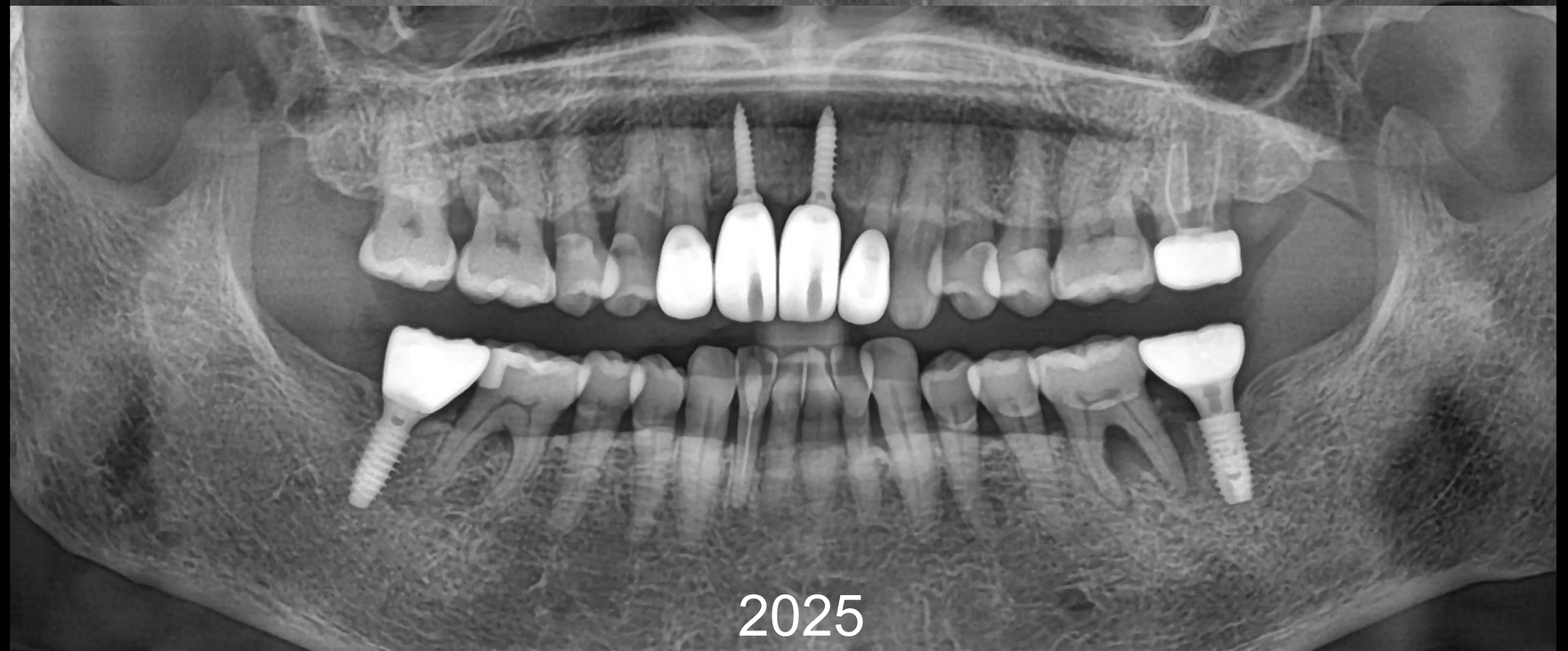
Straight

Vented - usually 15 but maximum to 25 degree

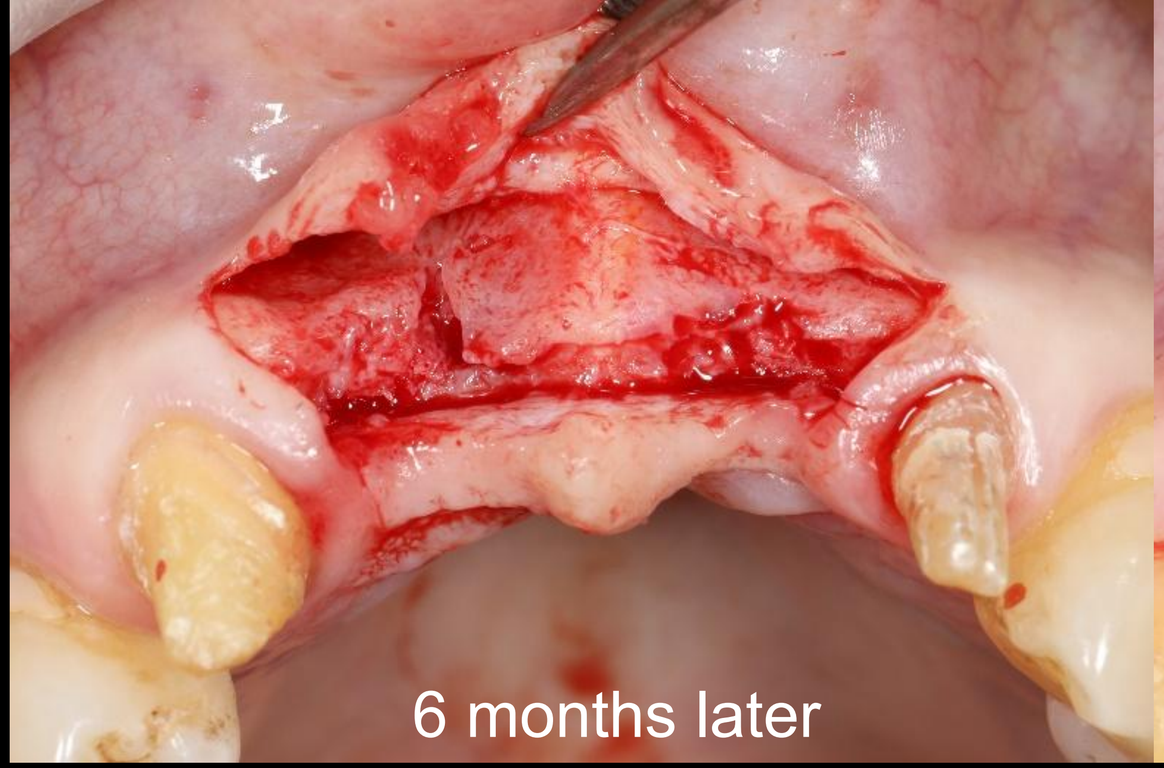


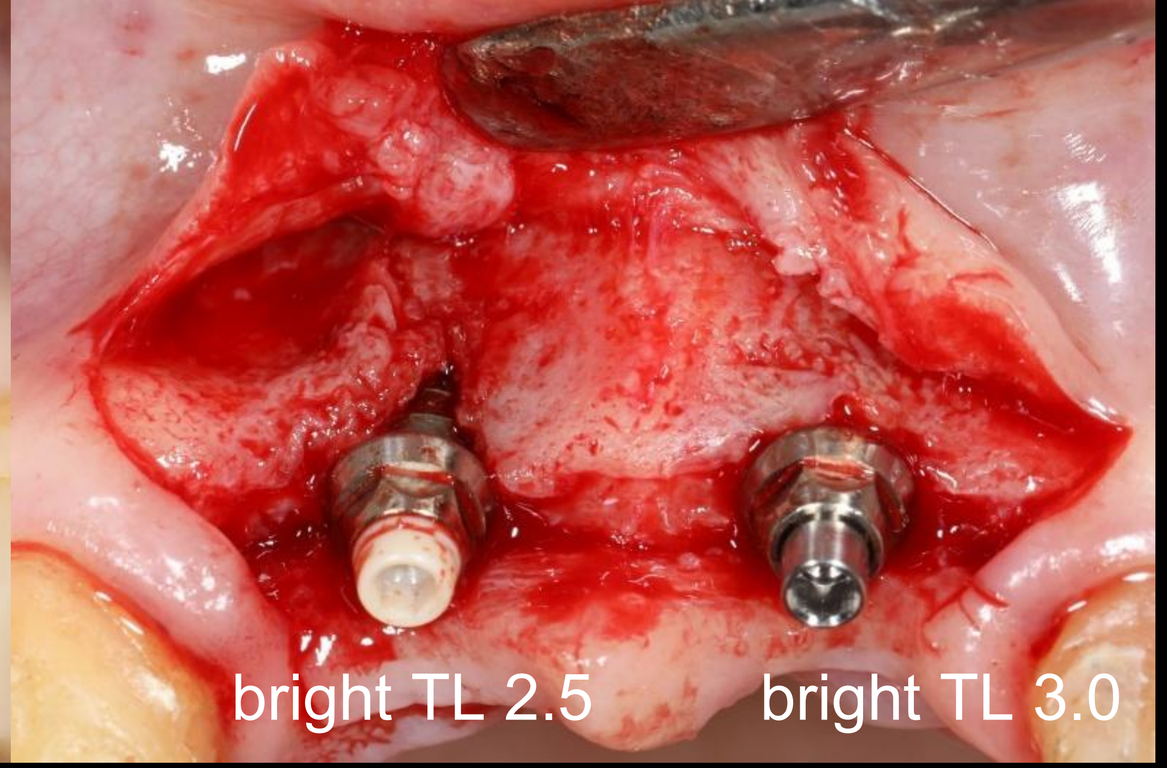
2021



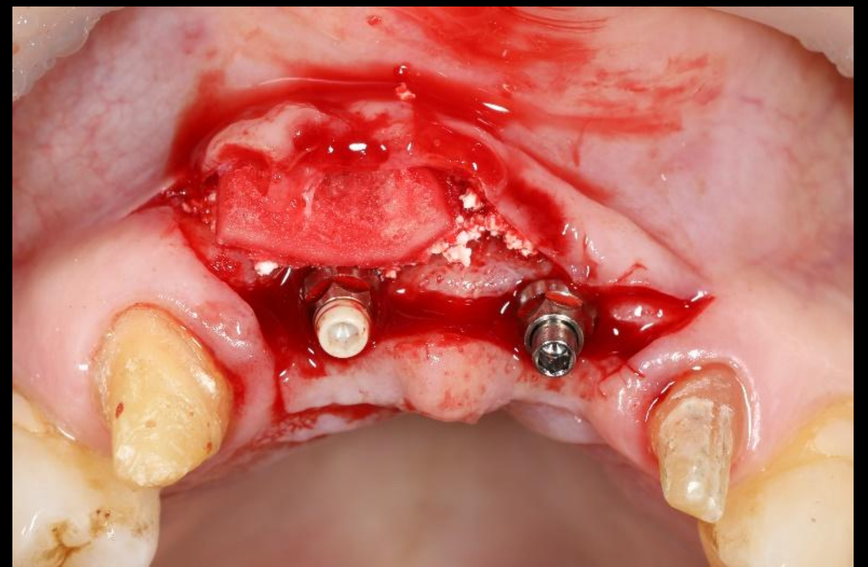


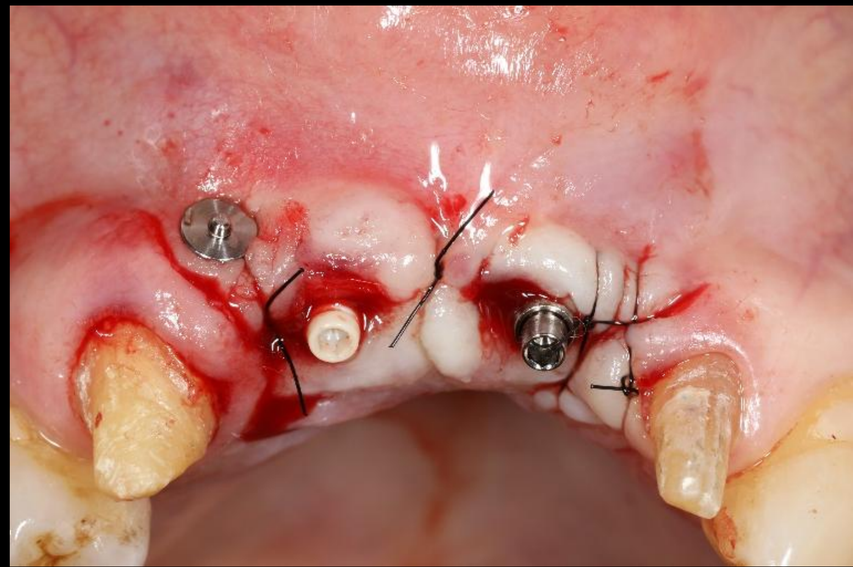
2025


6 months later

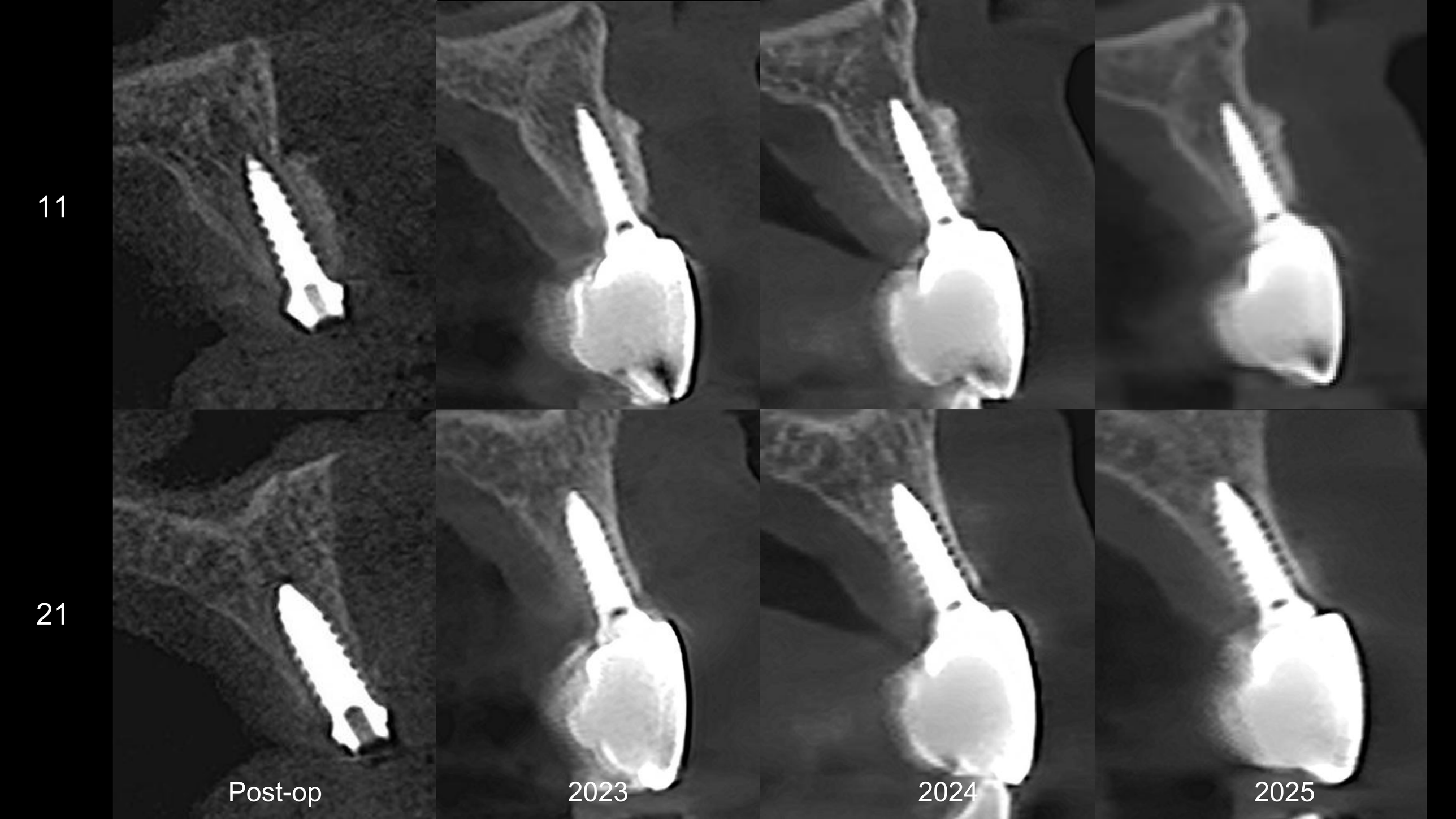

bright TL 2.5
bright TL 3.0

OSTEON™ 3 Collagen + Collagen Graft





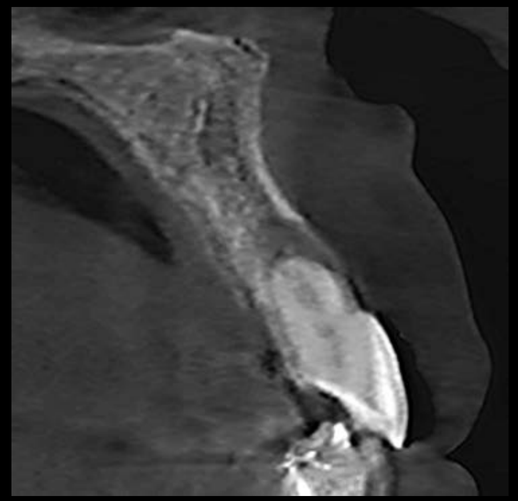
2022
2023
2025


11
21
Post-op
2023
2024
2025

Pre-op (2025-09-02)

Post-op (2025-10-14)

Pre-op CT (2025-09-02)



#21

Post-op CT (2025-10-14)

#21

Pre-op (2025-10-14)

Surgery (2025-10-14)

Extraction

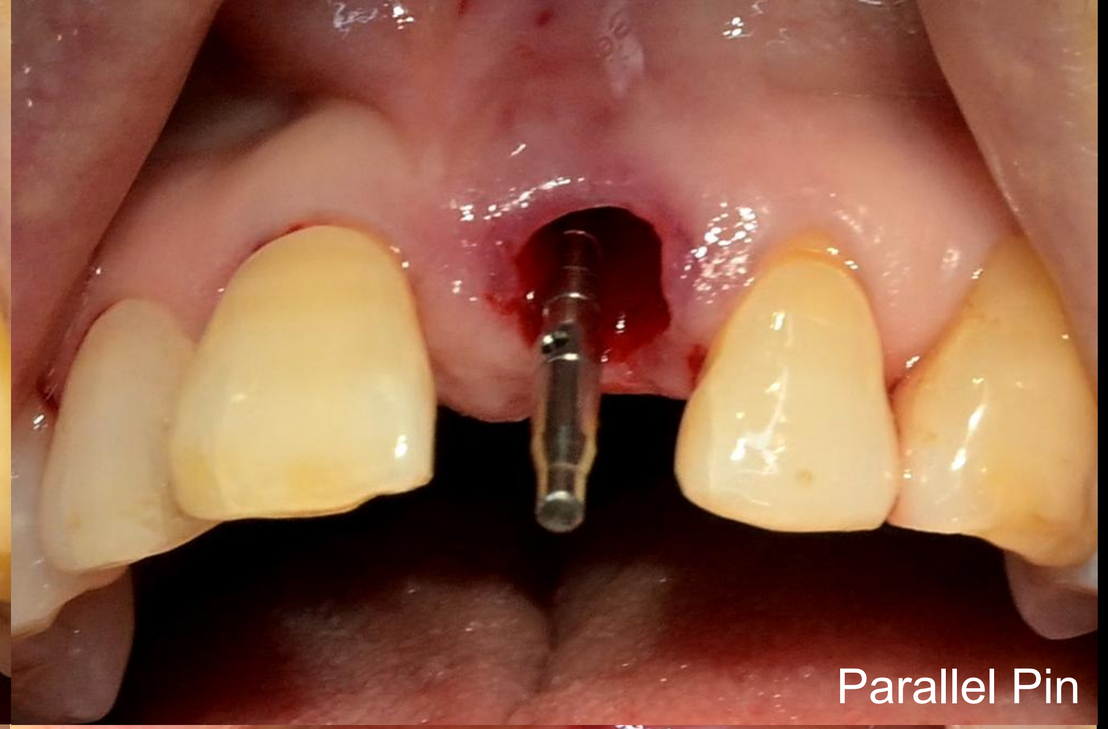
Granulation tissue removal

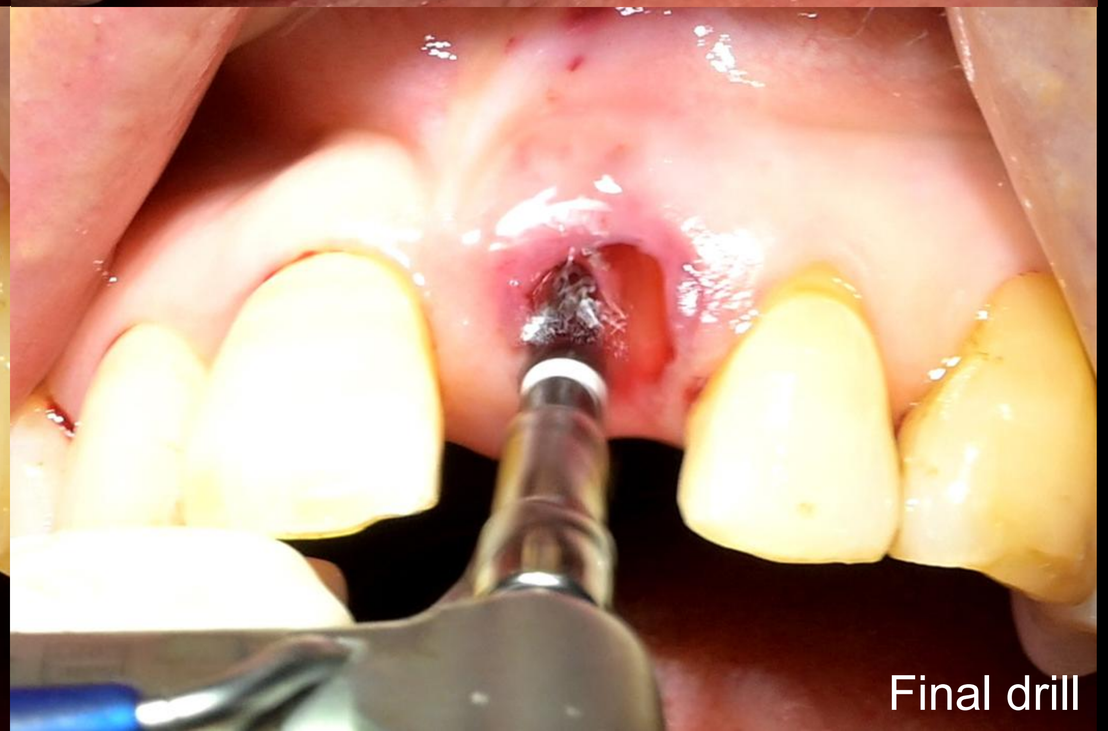
Marking

Adjacent tooth trimming

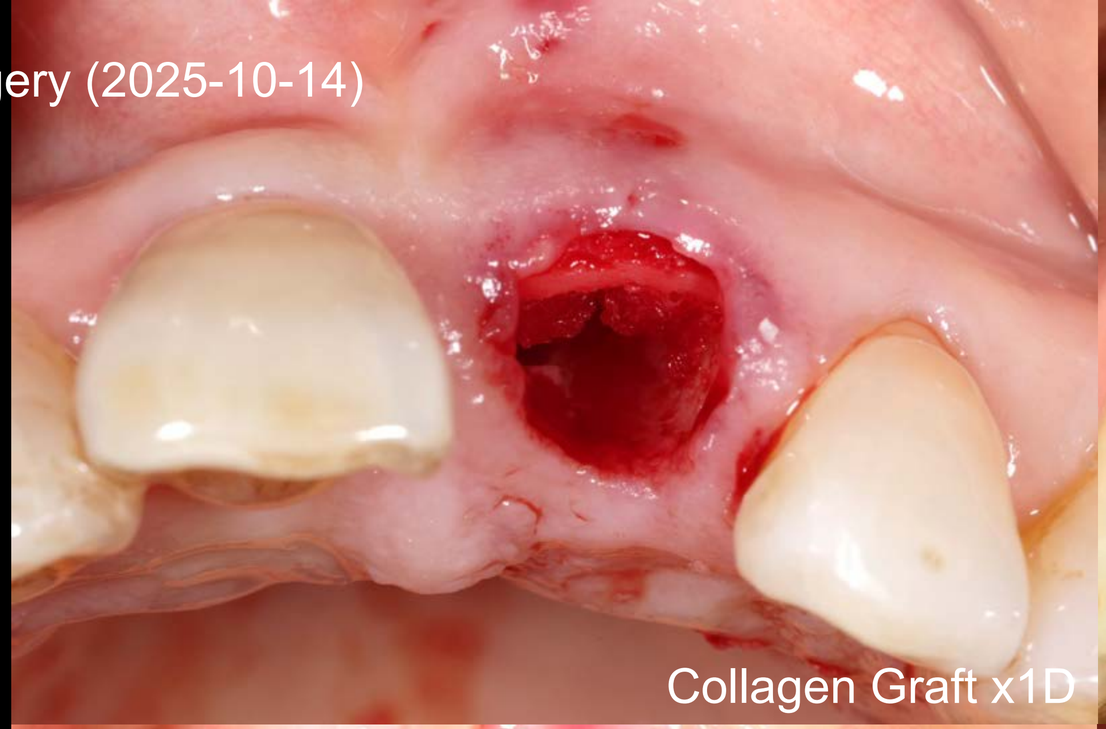
Surgery (2025-10-14)

Guide drill

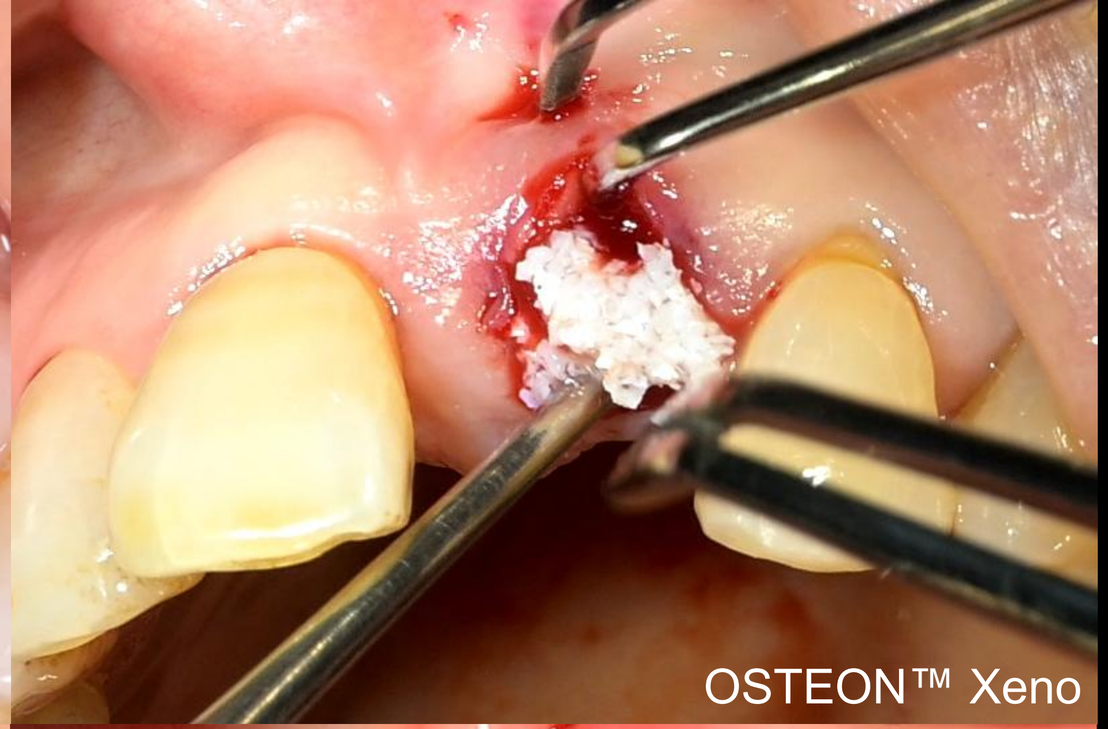

Parallel Pin


Final drill

Surgery (2025-10-14)

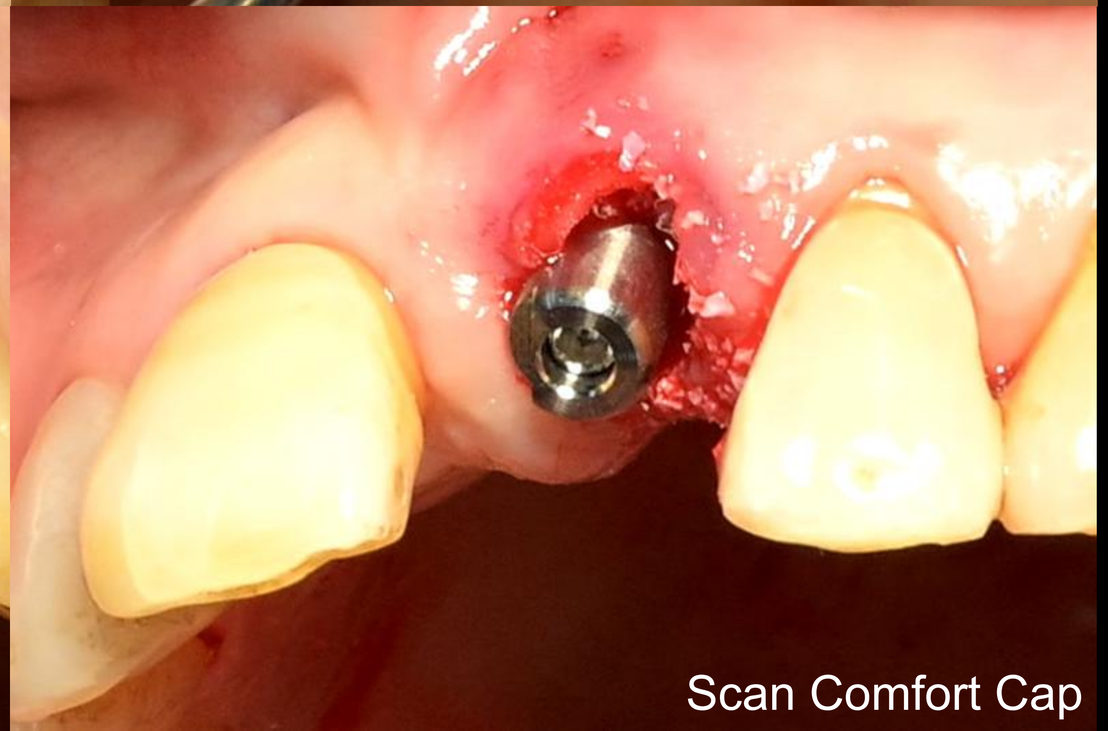


Collagen Graft x1D



OSTEON™ Xeno

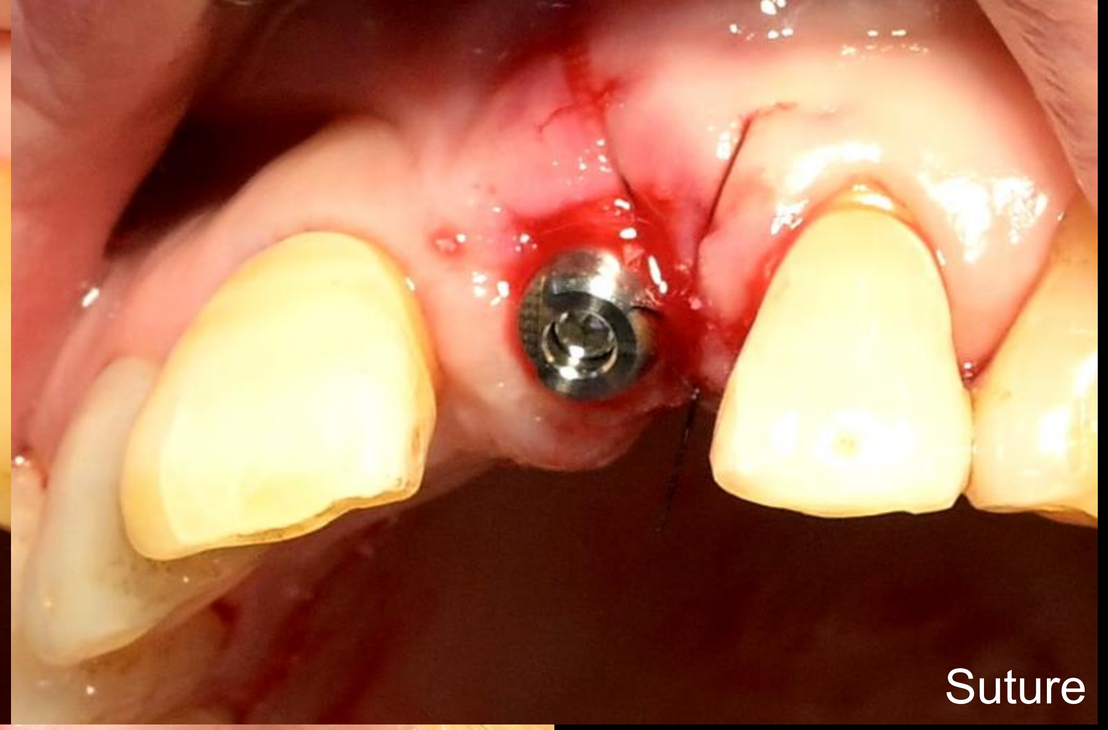
bright TL (Ø3.0 X 11.0)



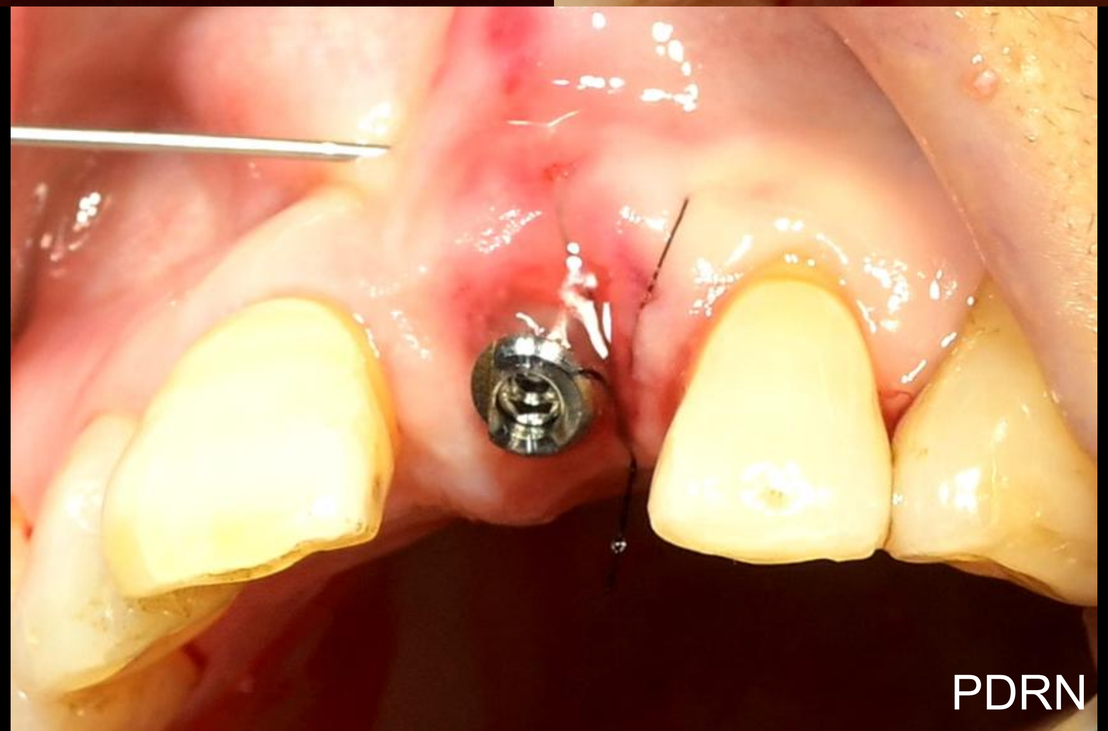
Scan Comfort Cap

Surgery (2025-10-14)

Collagen Graft x1D



Suture

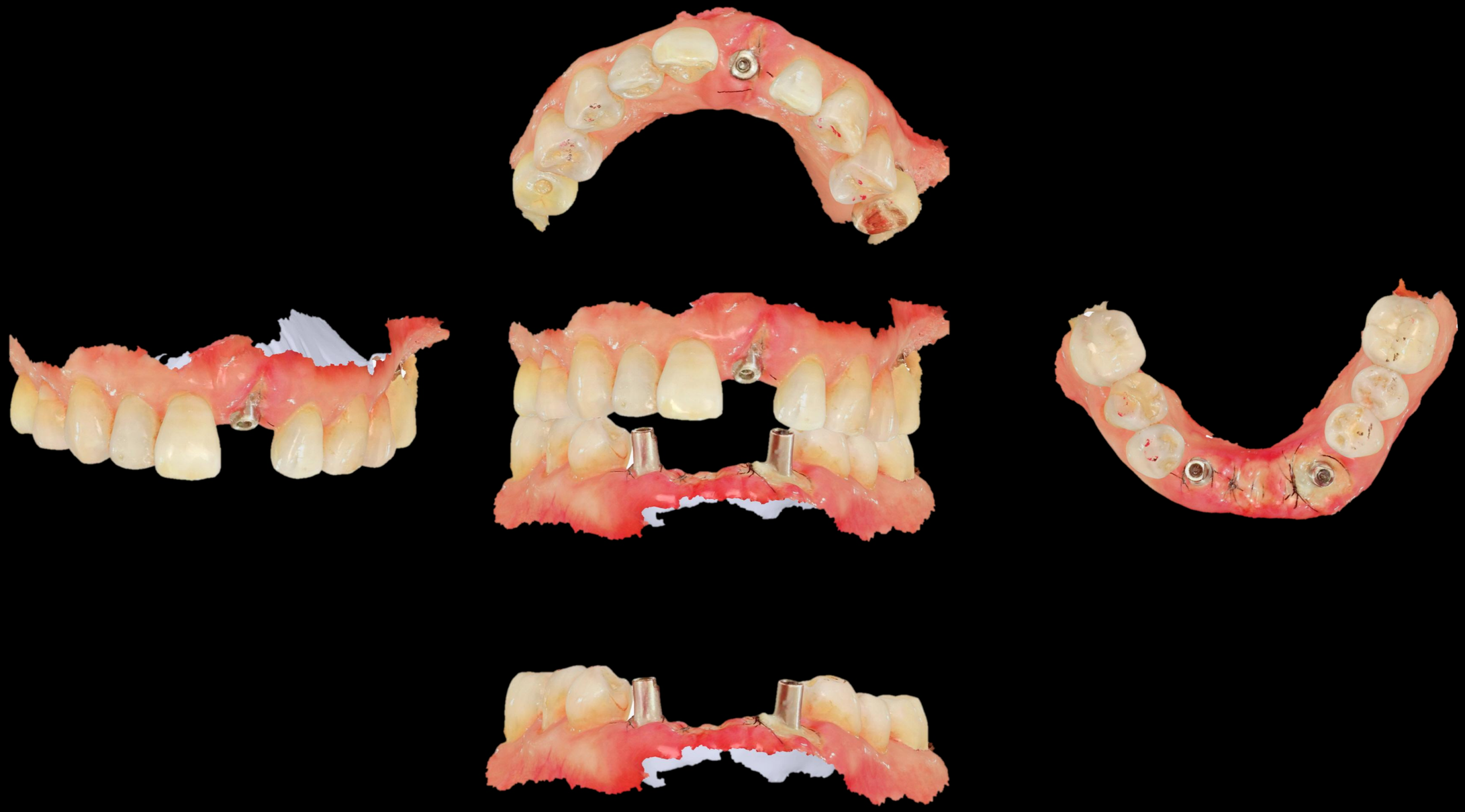


PDRN

Post-op (2025-10-14)

Healing : 2 days (2025-10-16)

Intra Oral Scan



Healing : 10 days (2025-10-23)

Stitch out

Provisional restoration (2025-11-05)

Narrow Ridge Implantation with Minimalized GBR

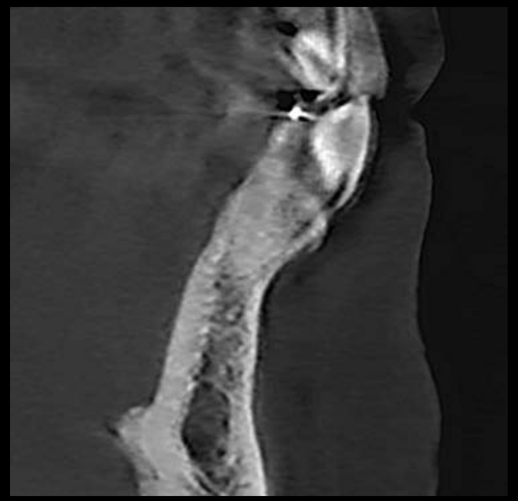
Dentium Dental Clinic
Dr. SM Chung

** 80p Surgery VOD 2

Pre-op CT (2025-09-02)

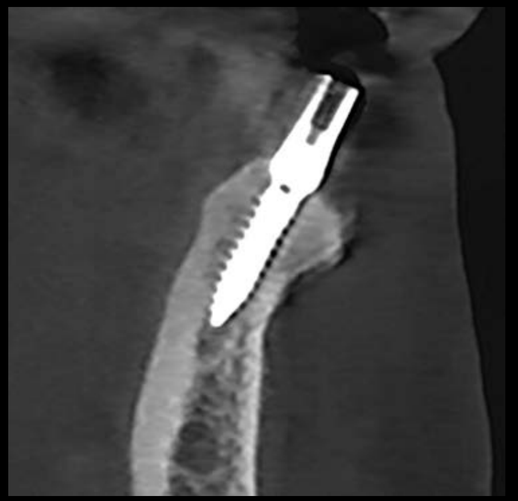
Post-op CT (2025-10-14)

#42



#33

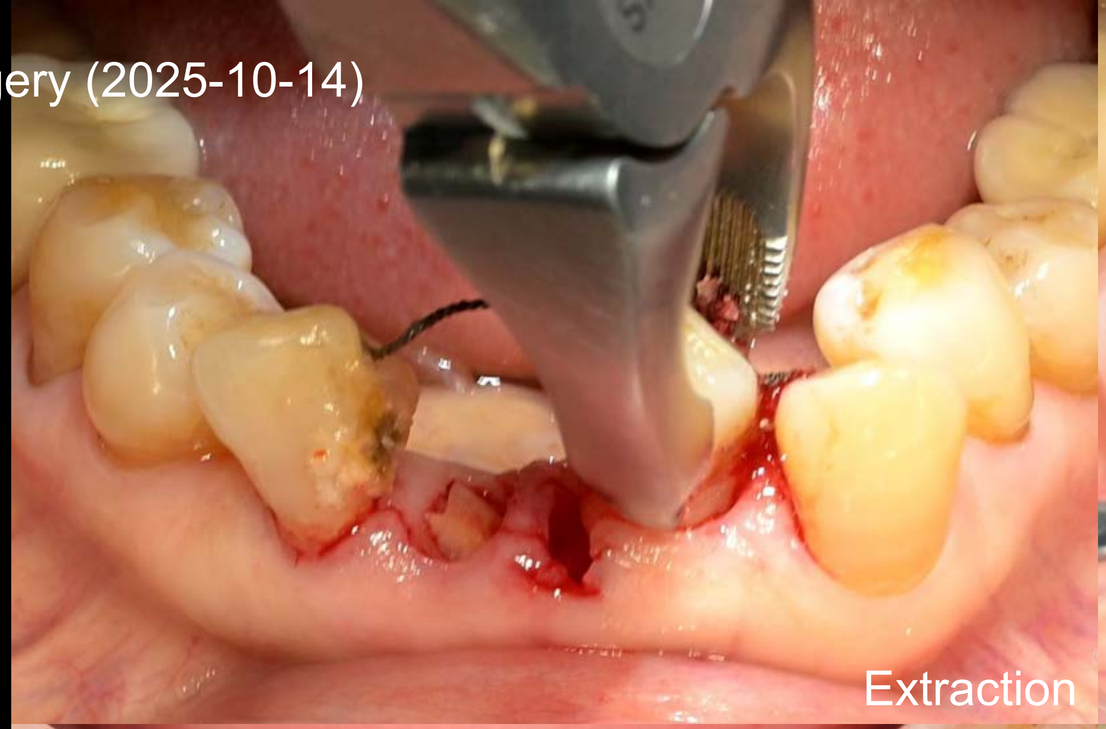
#42



#33

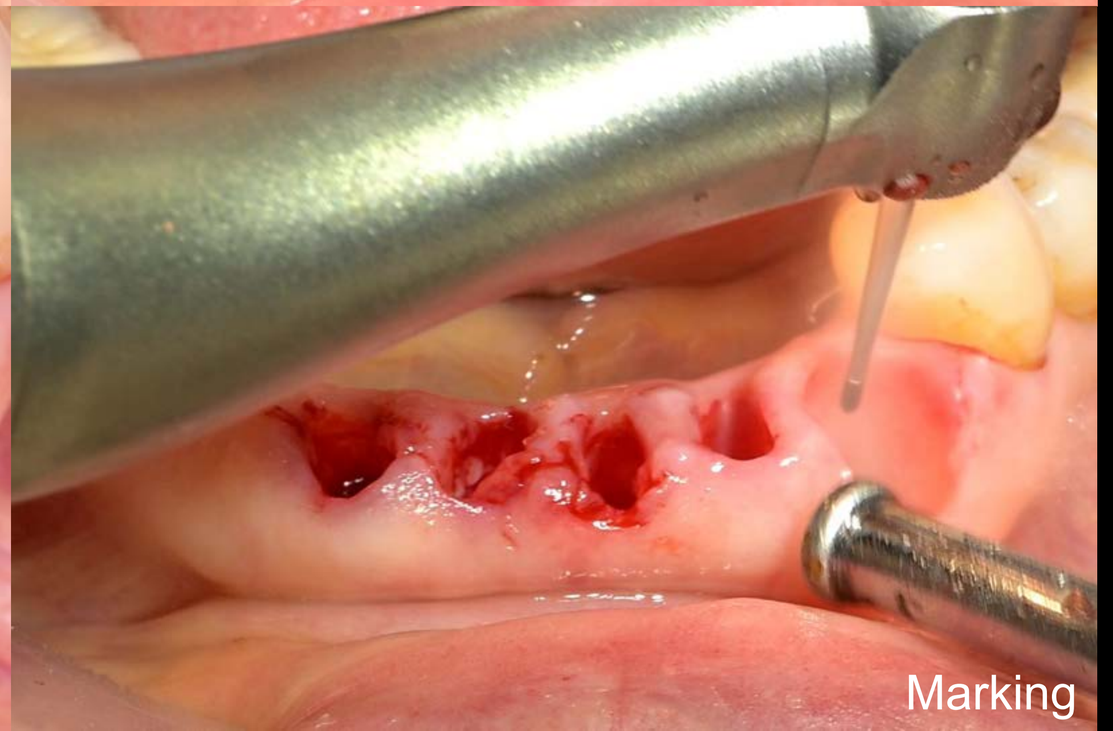
Pre-op (2025-10-14)

Surgery (2025-10-14)



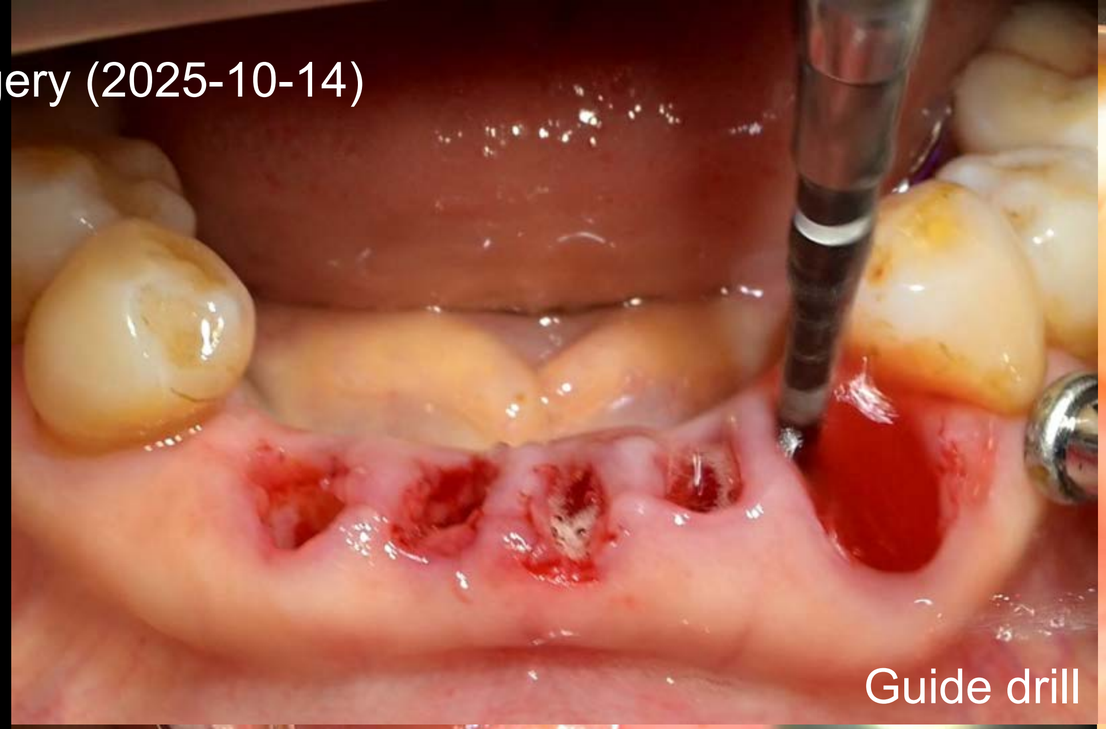
Extraction

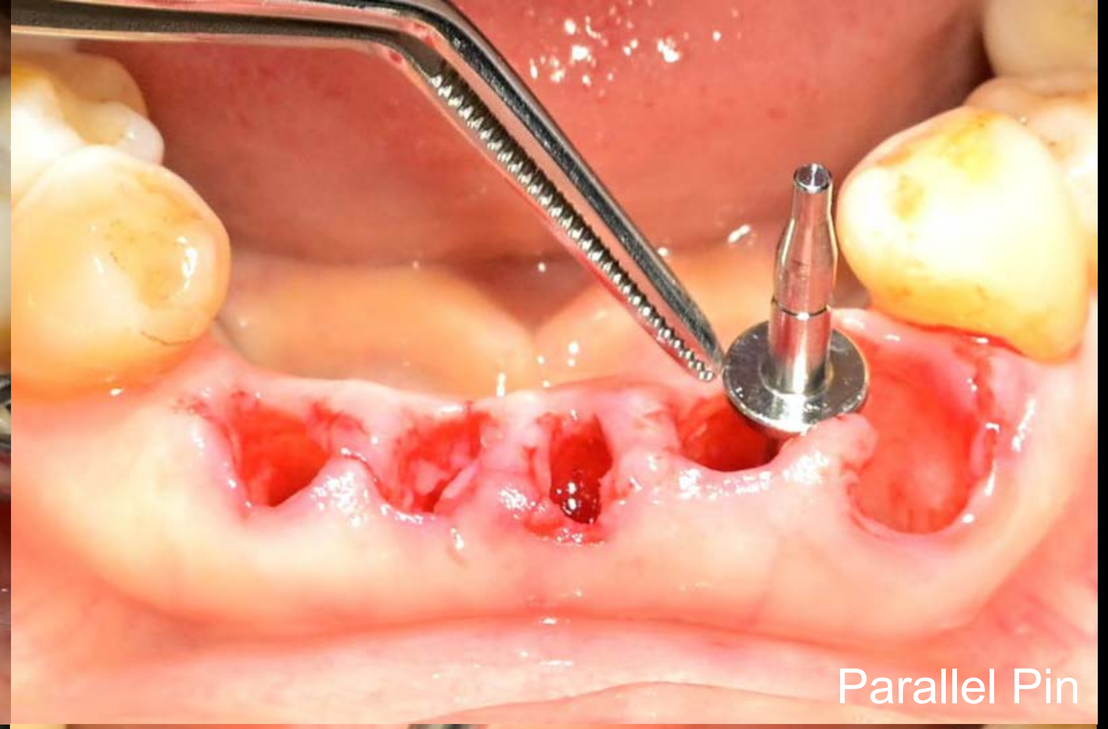
Granulation tissue removal



Marking

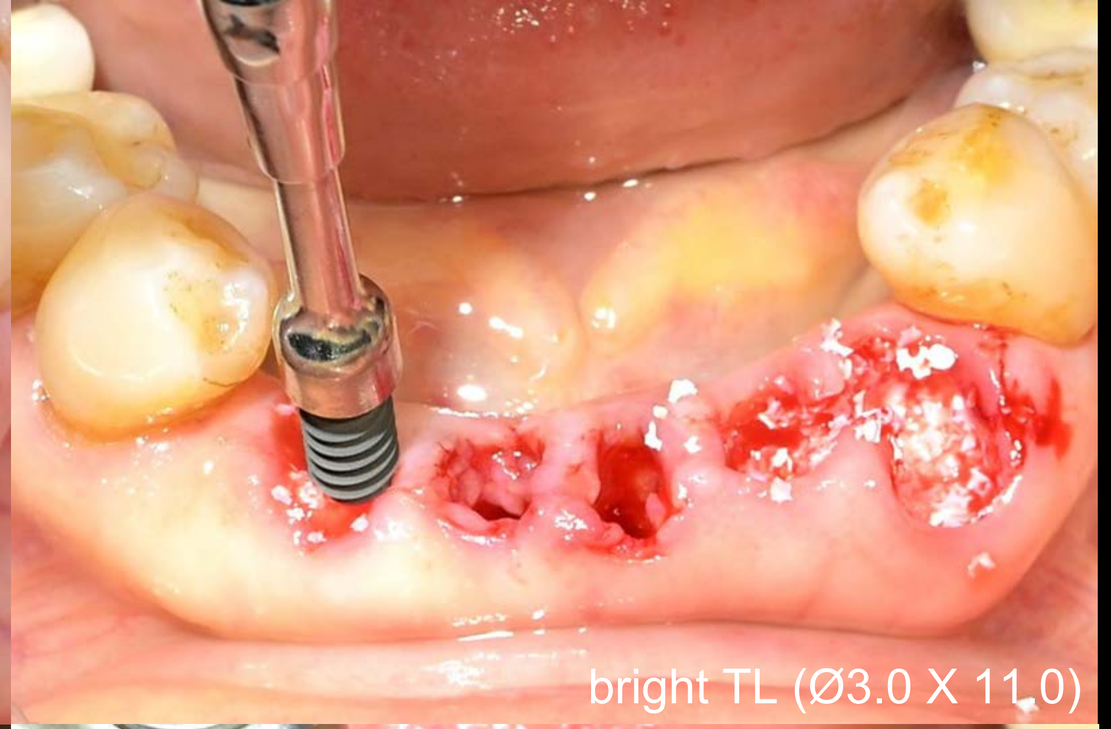
Surgery (2025-10-14)



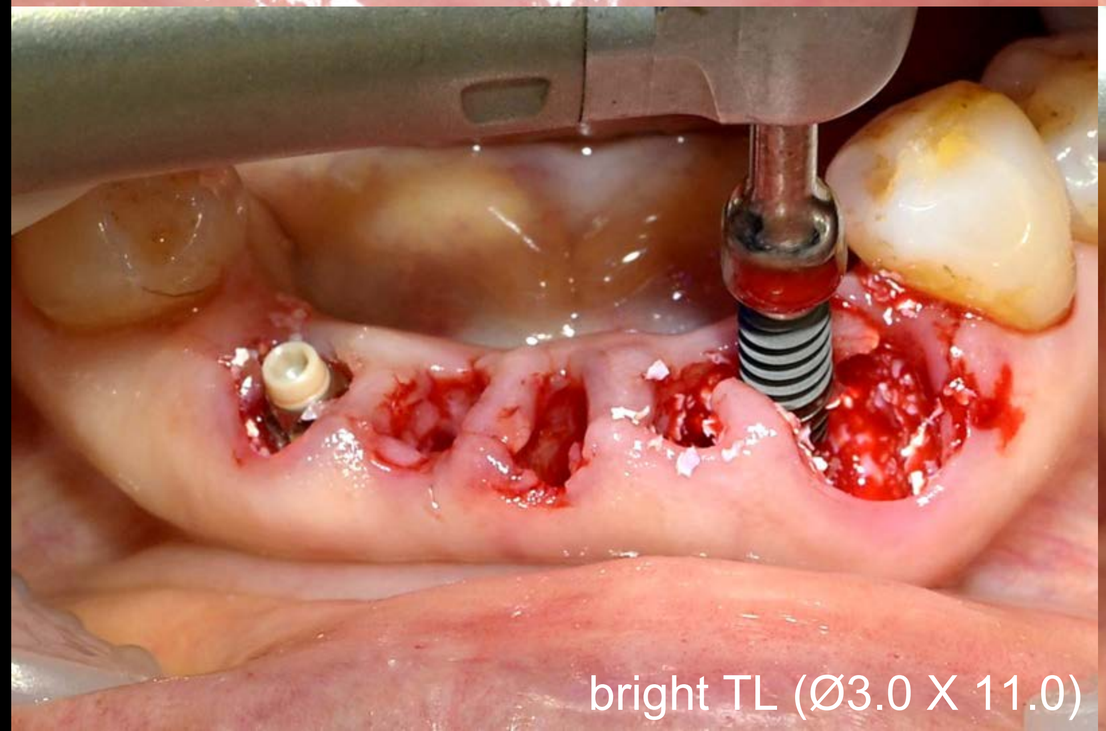


Surgery (2025-10-14)

OSTEON™ Xeno



bright TL (Ø3.0 X 11.0)

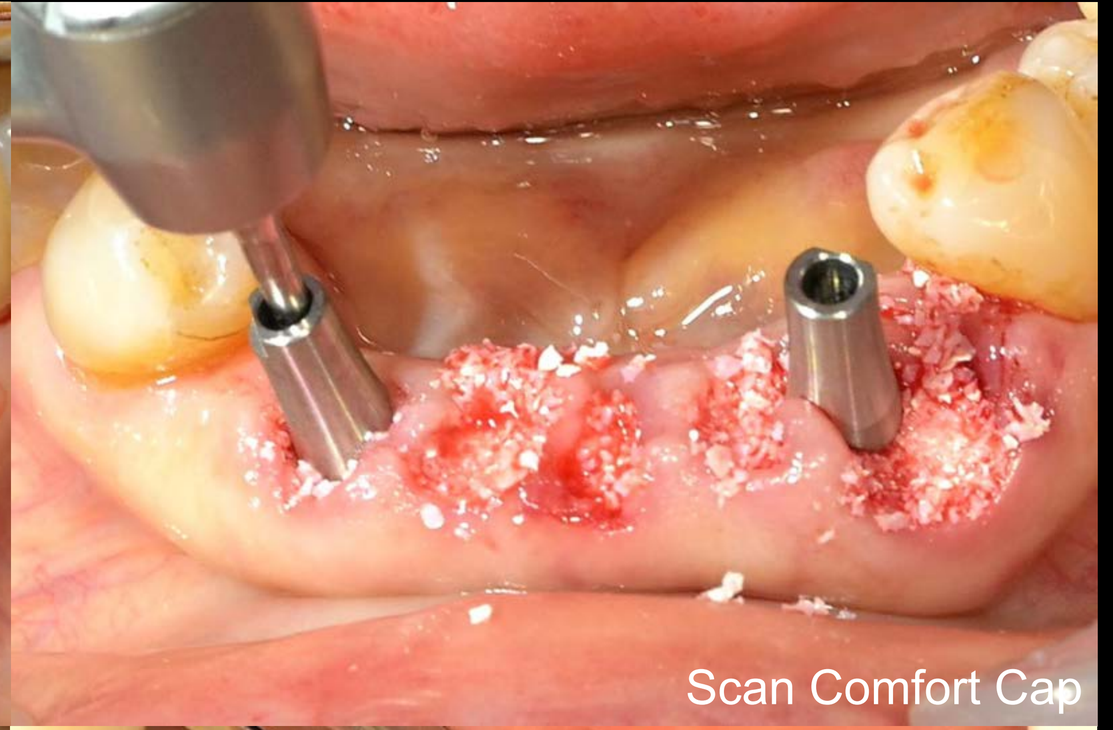


bright TL (Ø3.0 X 11.0)

Mount screw

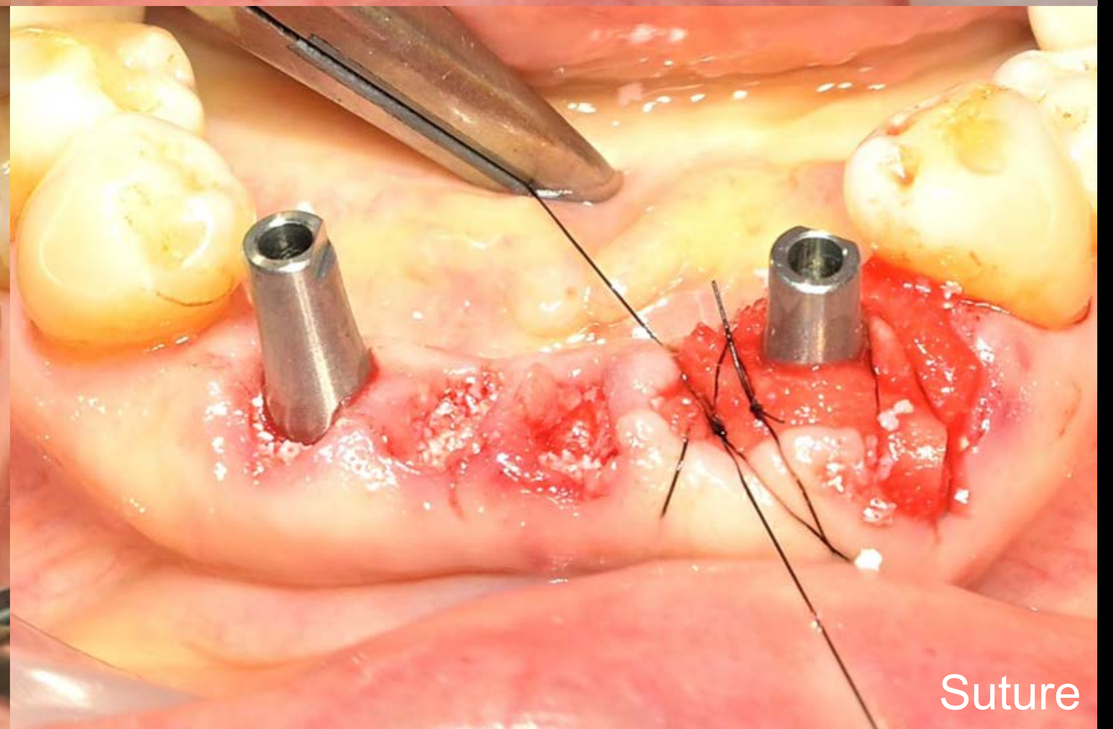
Surgery (2025-10-14)

OSTEON™ Xeno



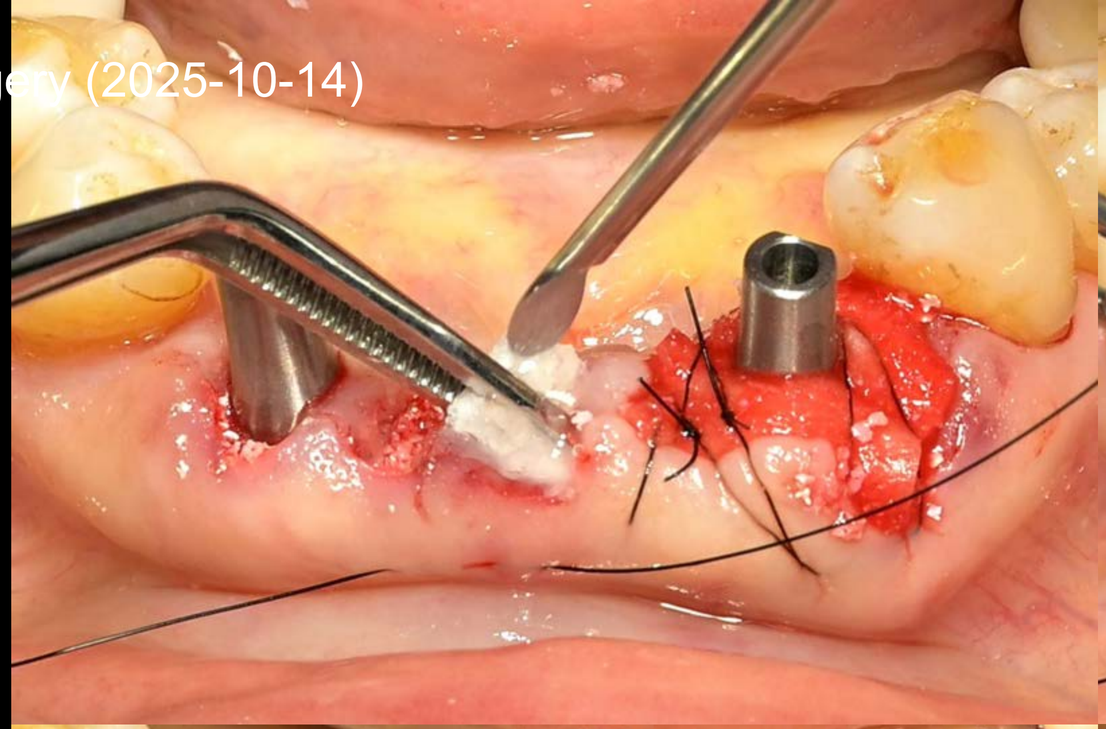
Scan Comfort Cap

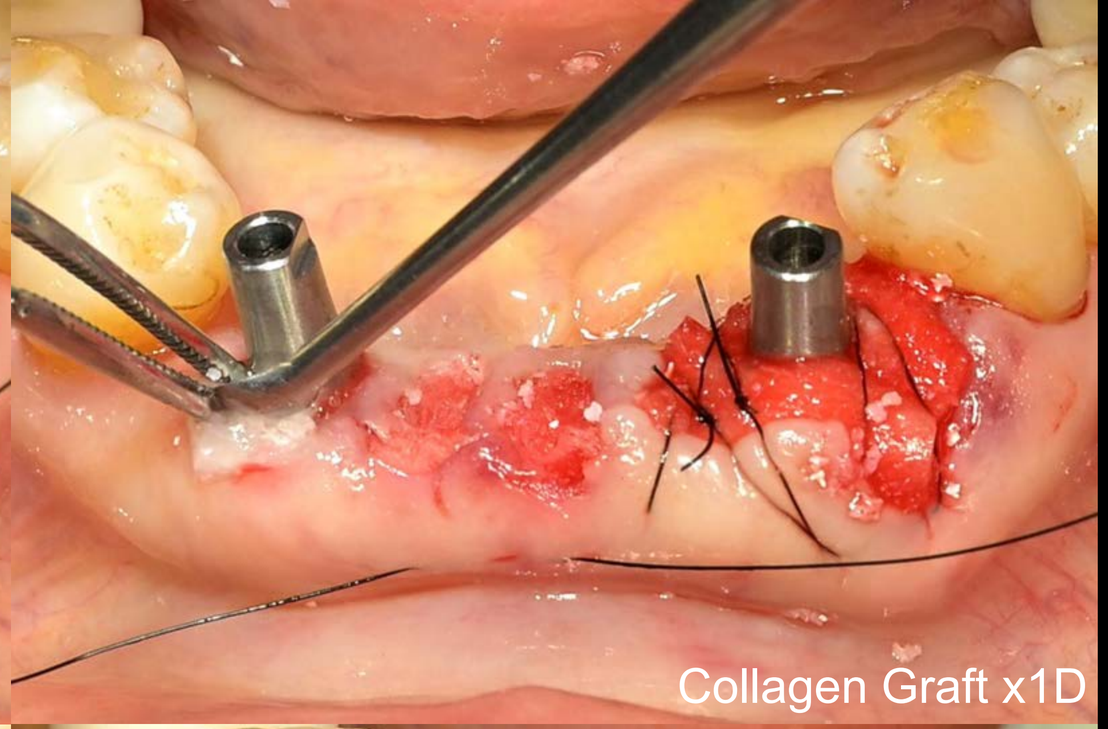
Collagen Graft x1D



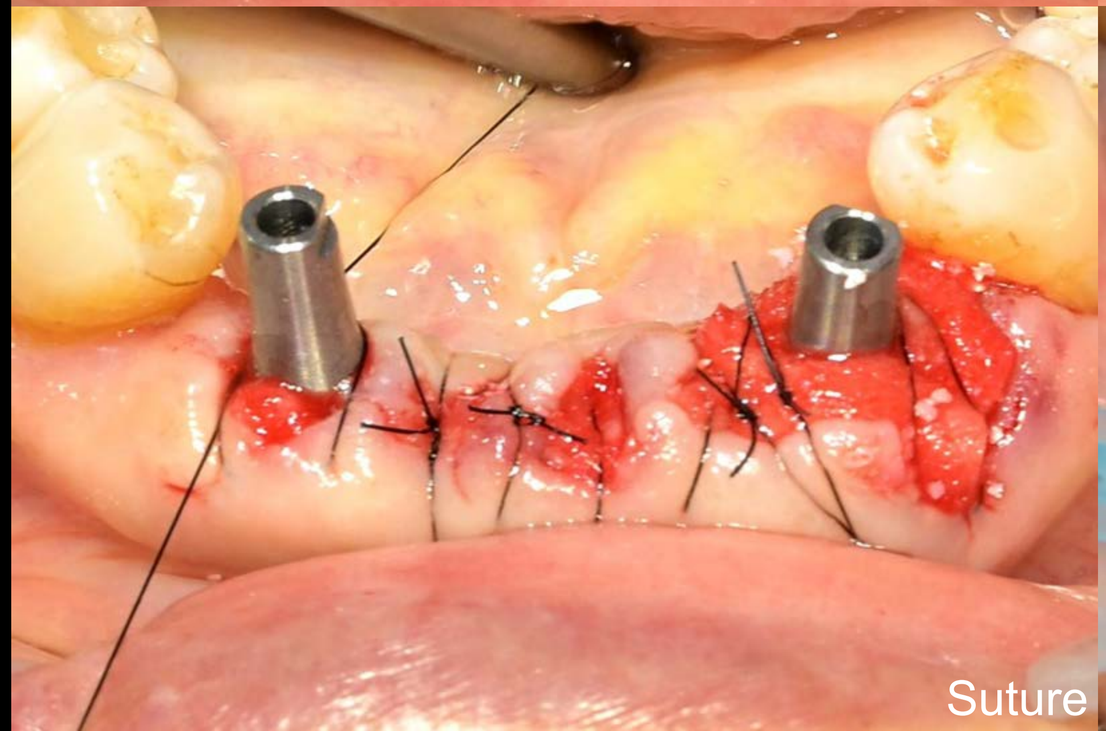
Suture

Surgery (2025-10-14)

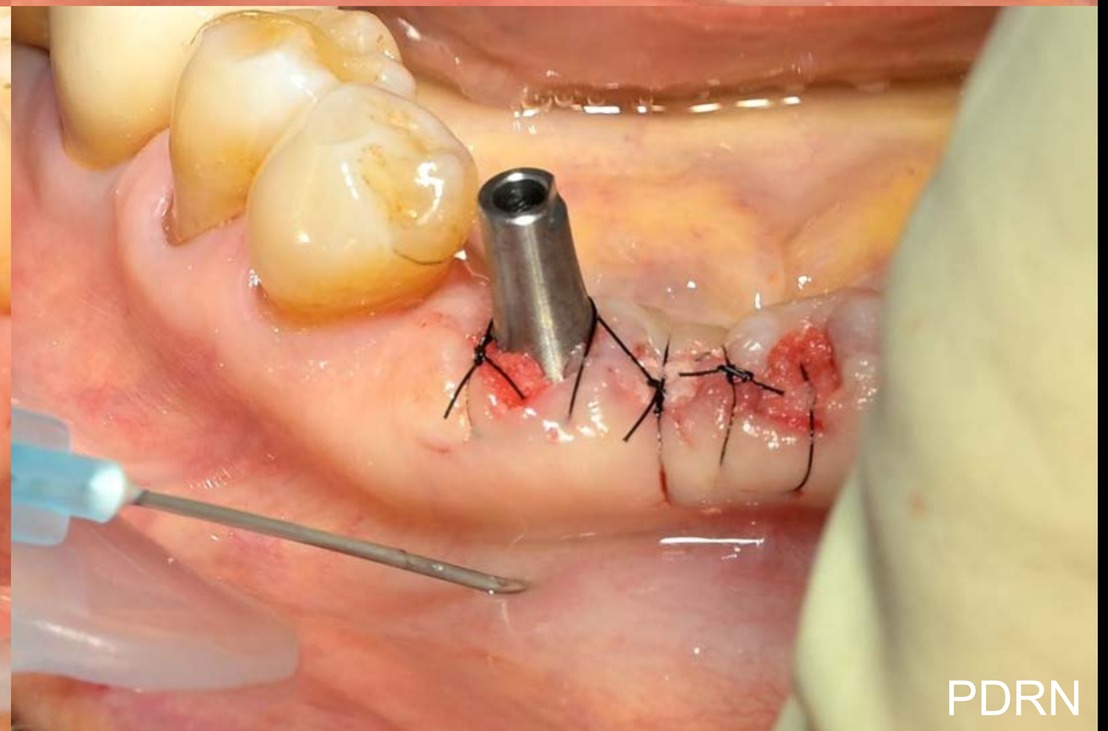




Collagen Graft x1D

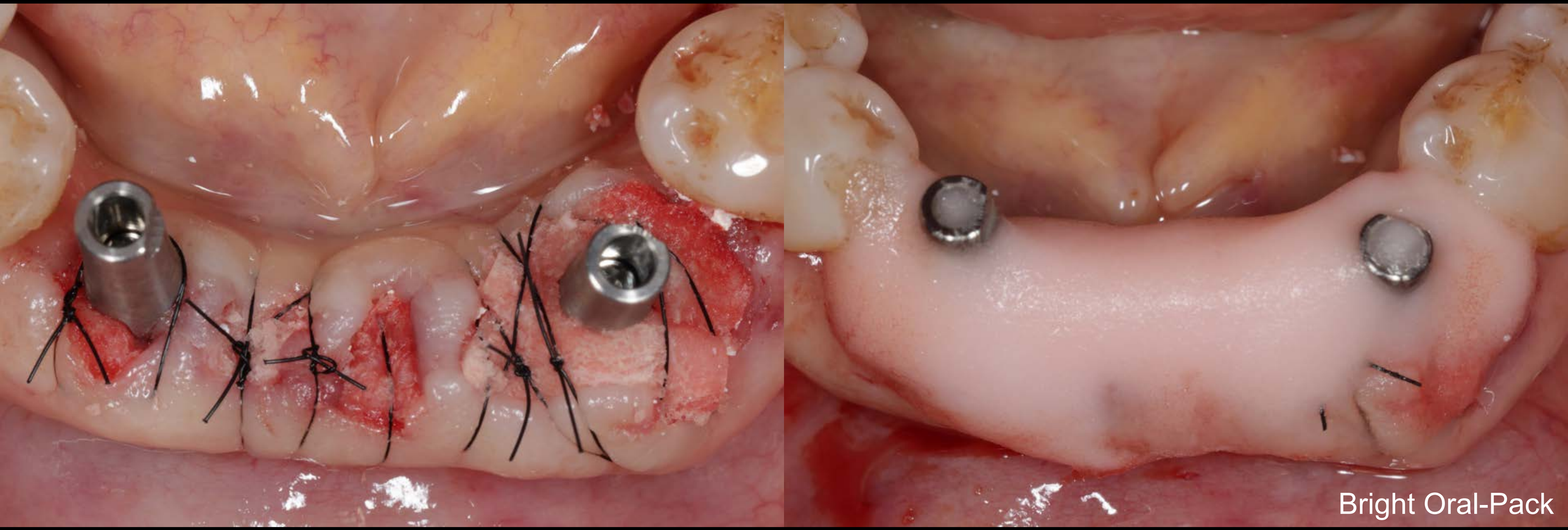


Suture

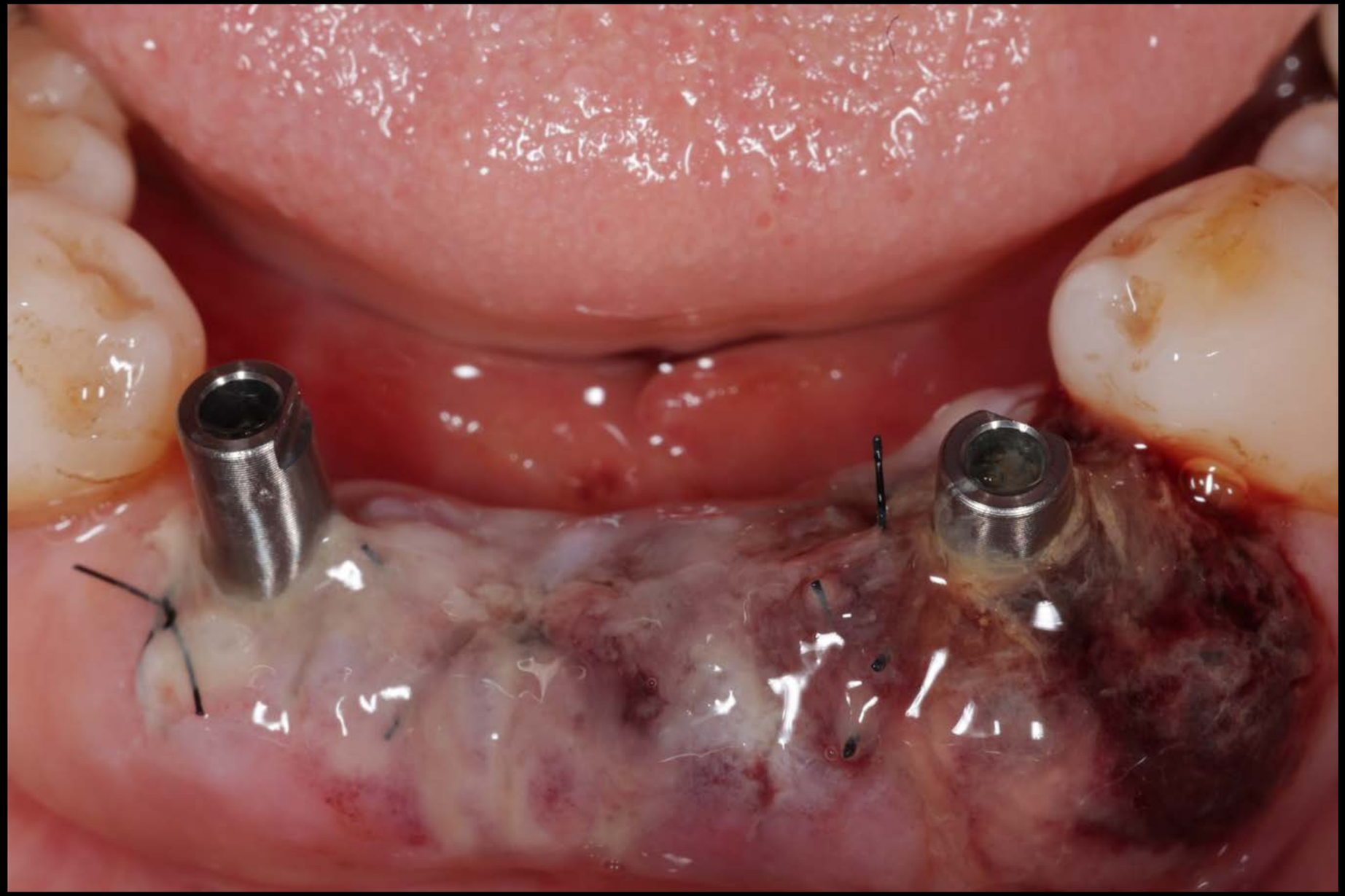


PDRN

Post-op (2025-10-14)



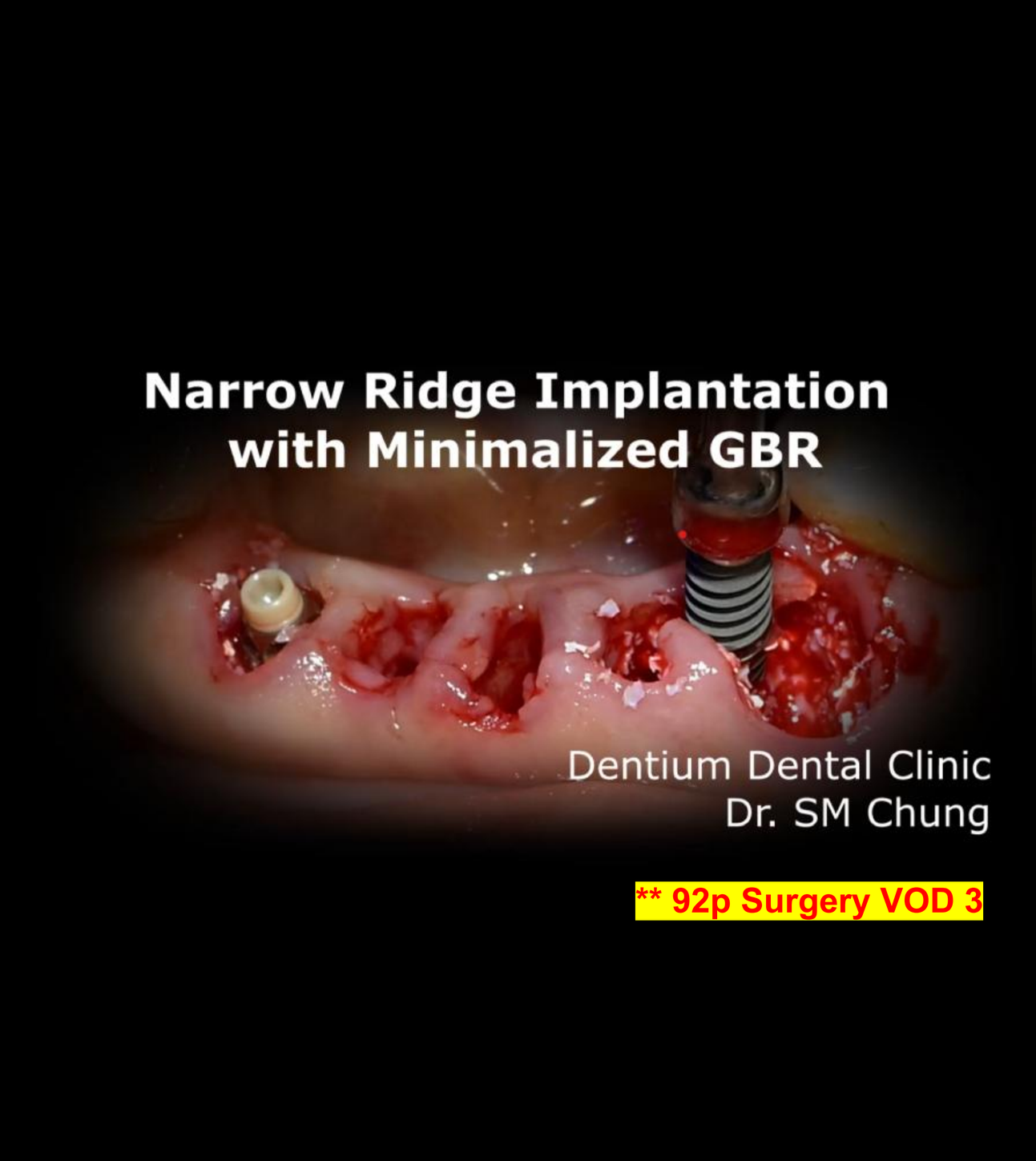
Healing : 2 days (2025-10-16)



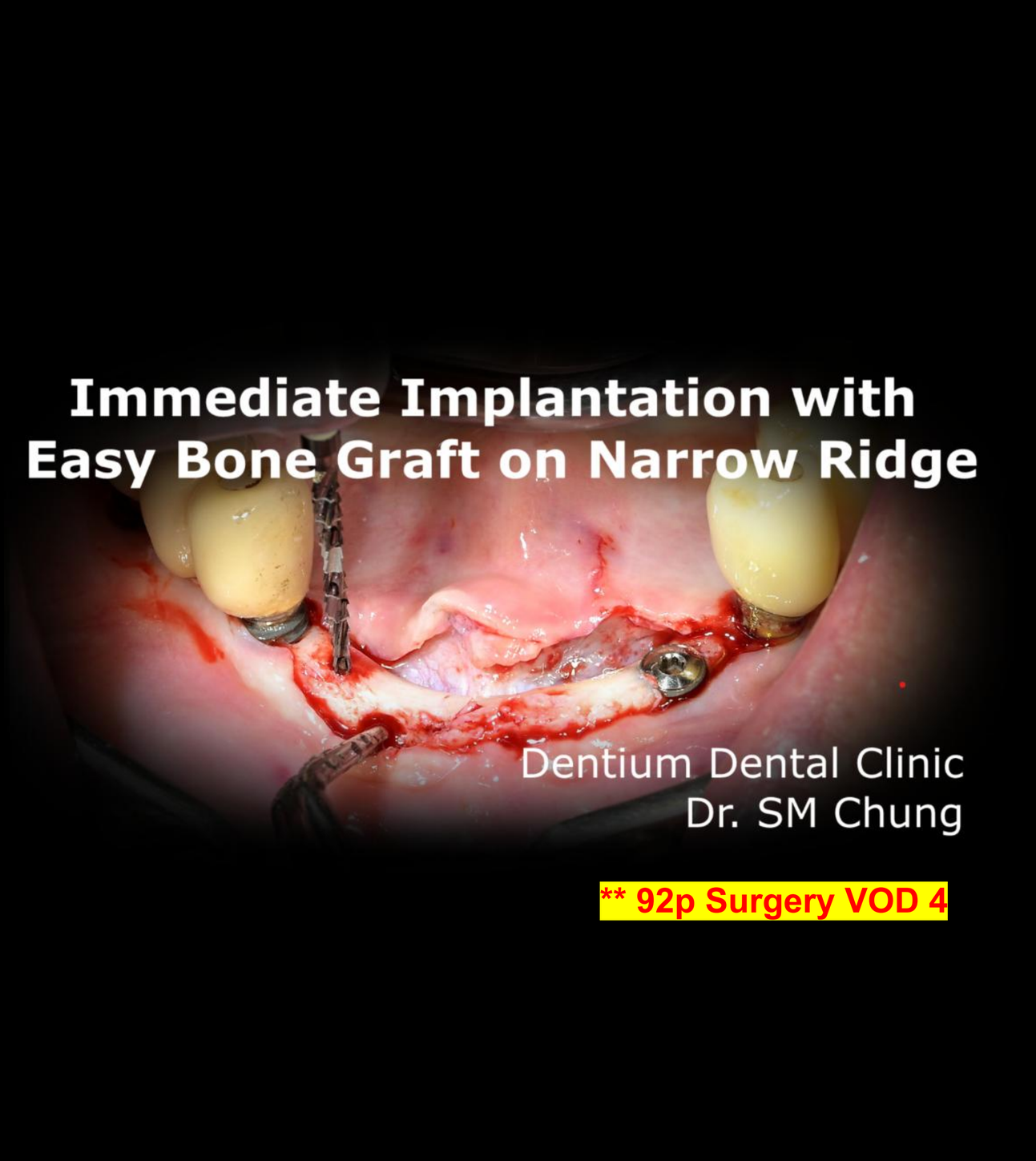
Healing : 10 days (2025-10-23)

Stitch out

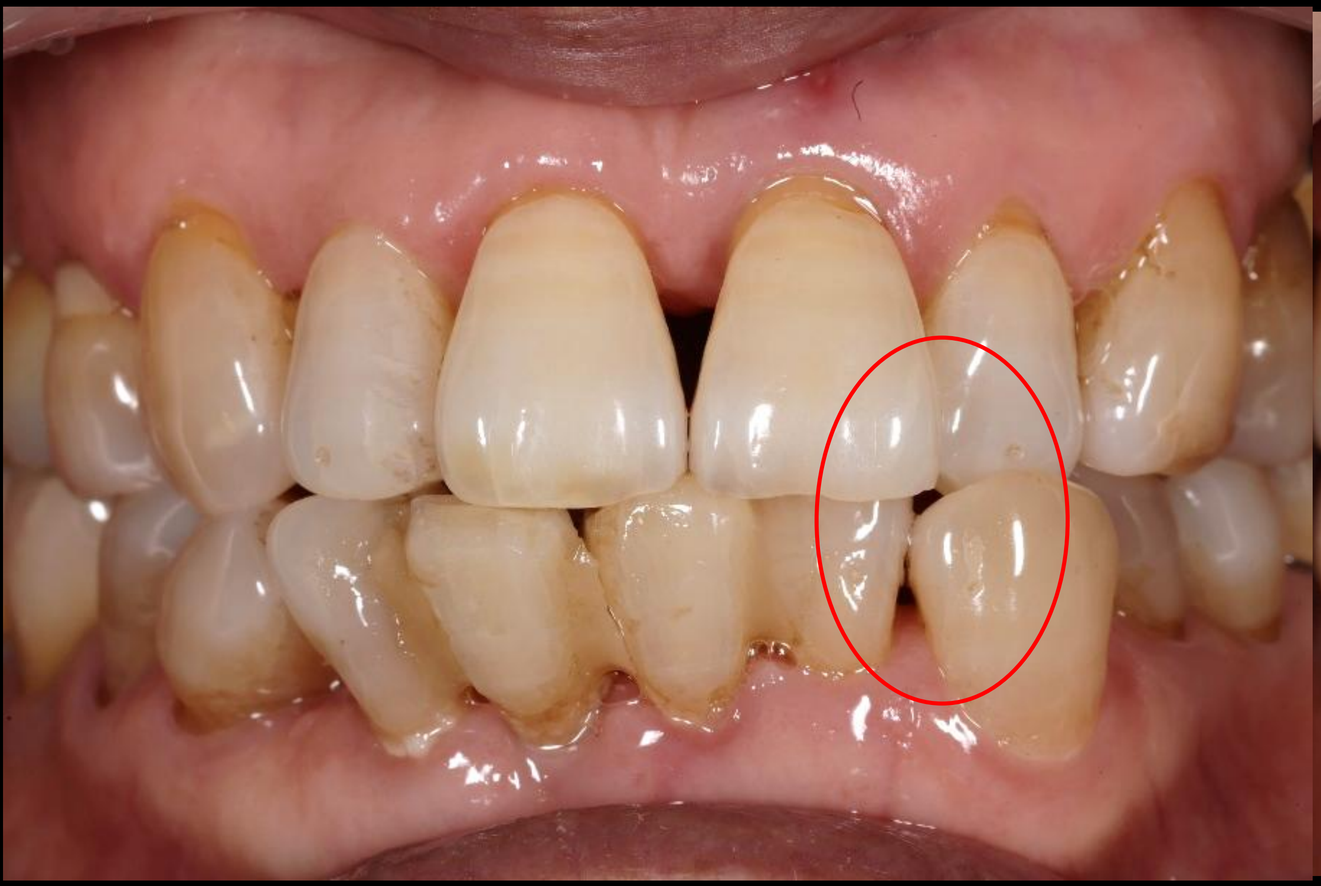
Provisional restoration (2025-11-05)



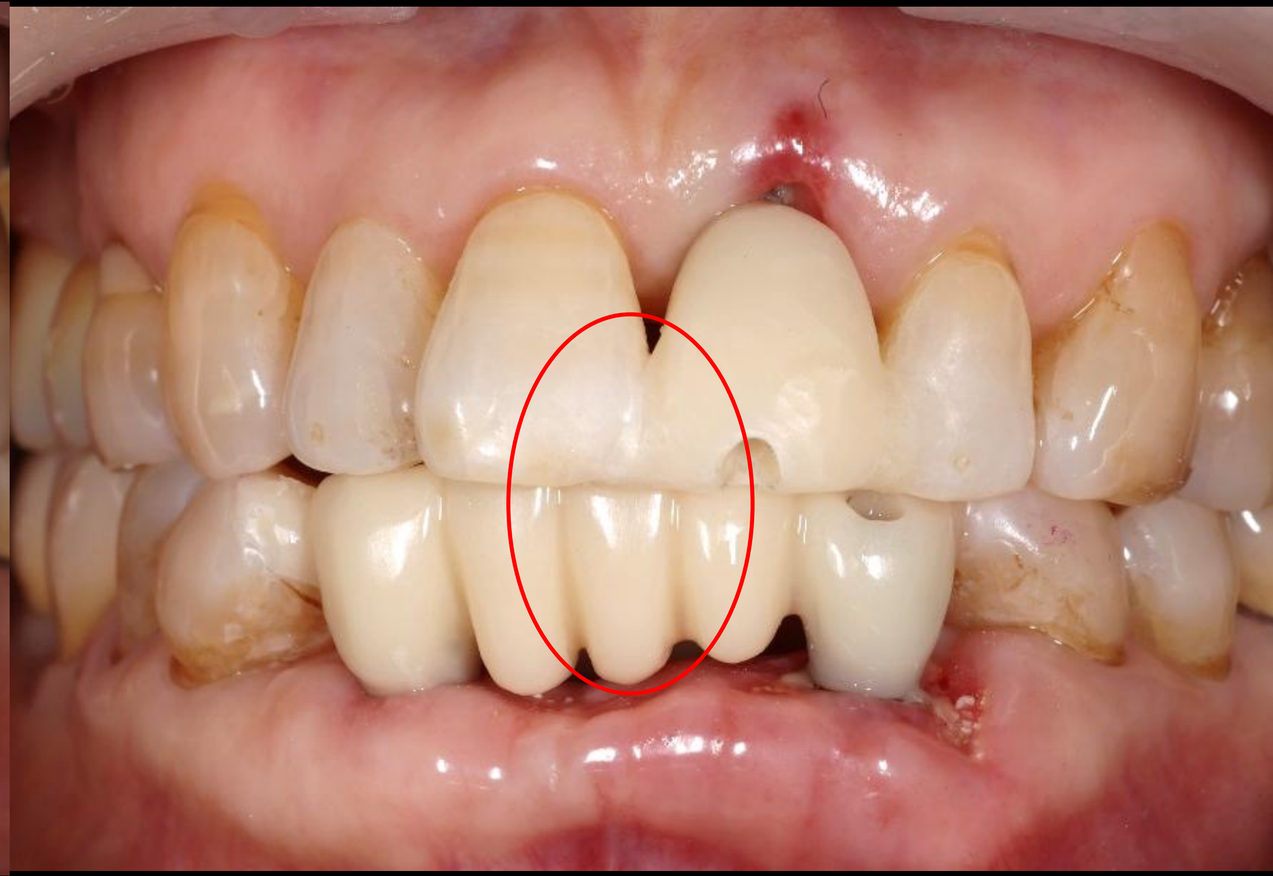
** 92p Surgery VOD 3



** 92p Surgery VOD 4



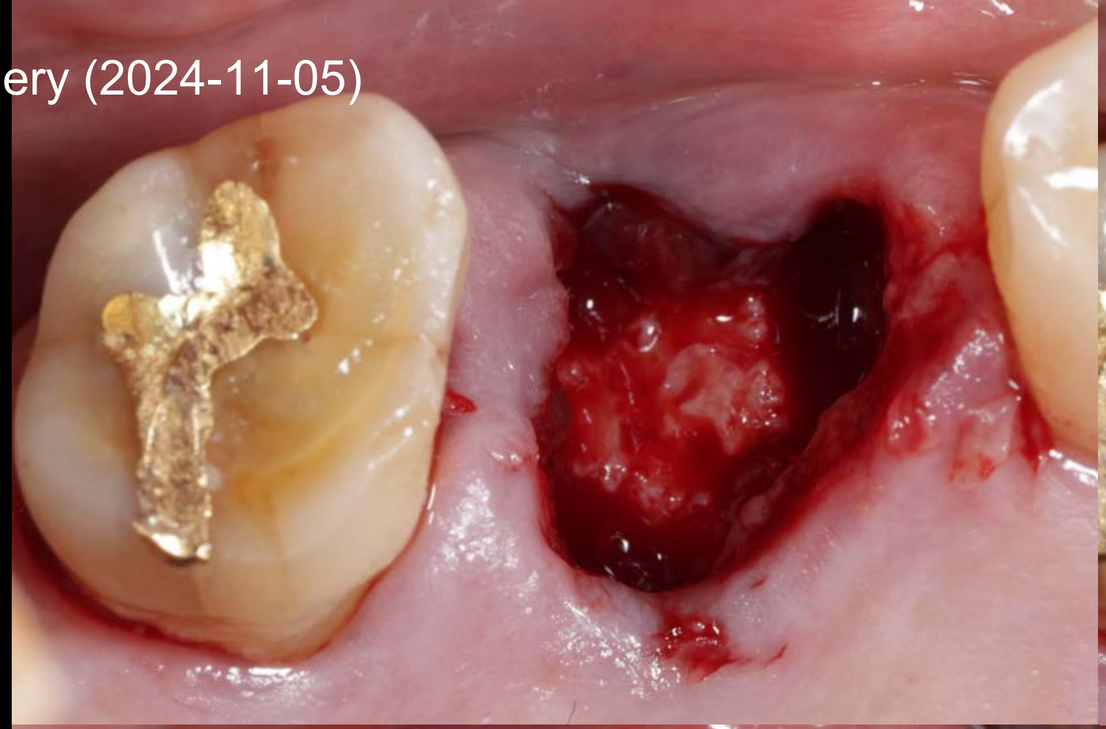
Before Treatment
#22, #33 in crossbite
→ Planned for partial orthodontic treatment

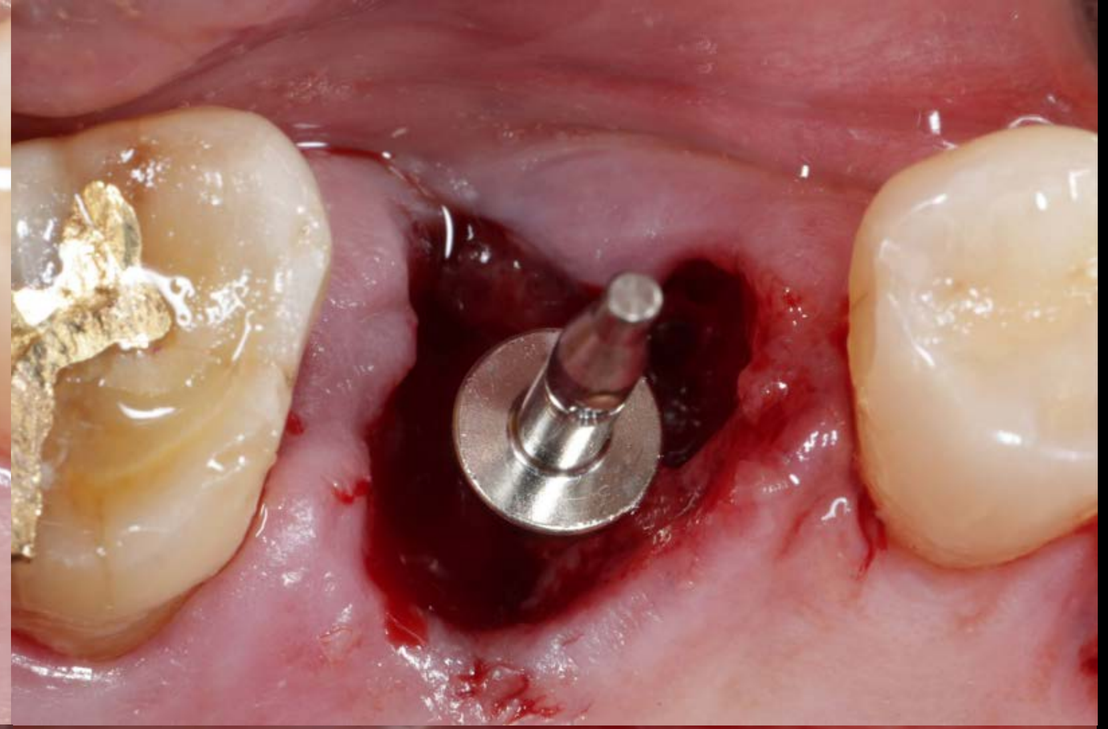


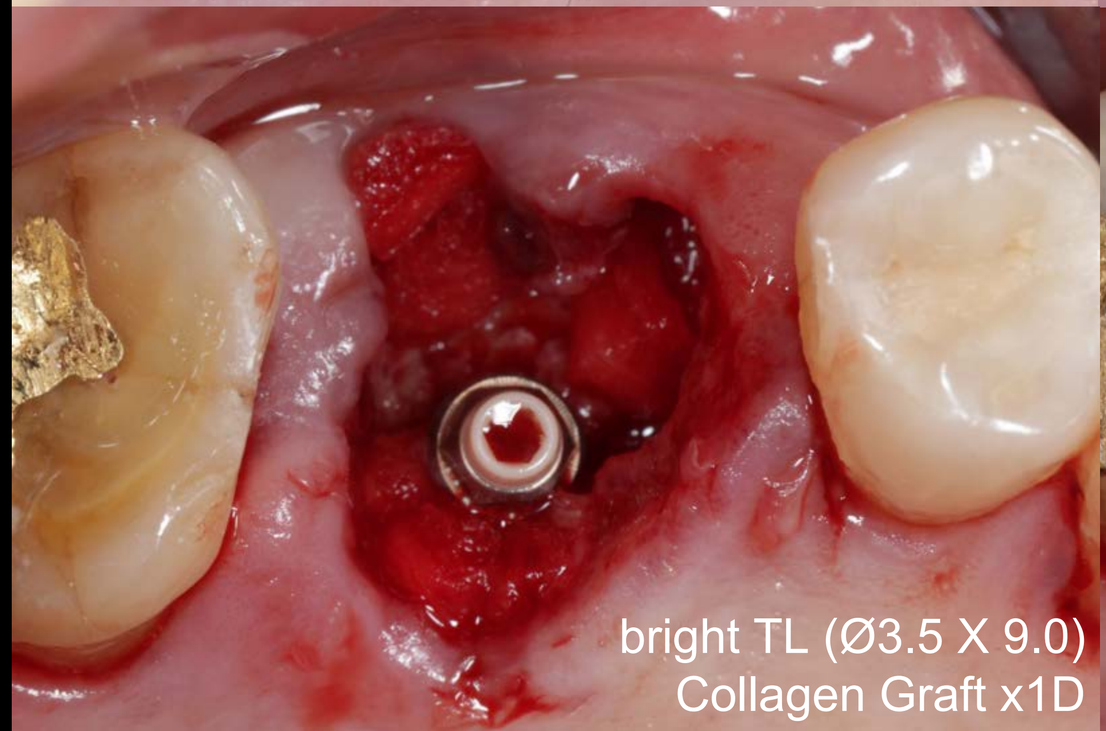
After provisional restoration
Crossbite changed to normal occlusion
and the patient's satisfaction improved

Pre-op (2024-11-05)

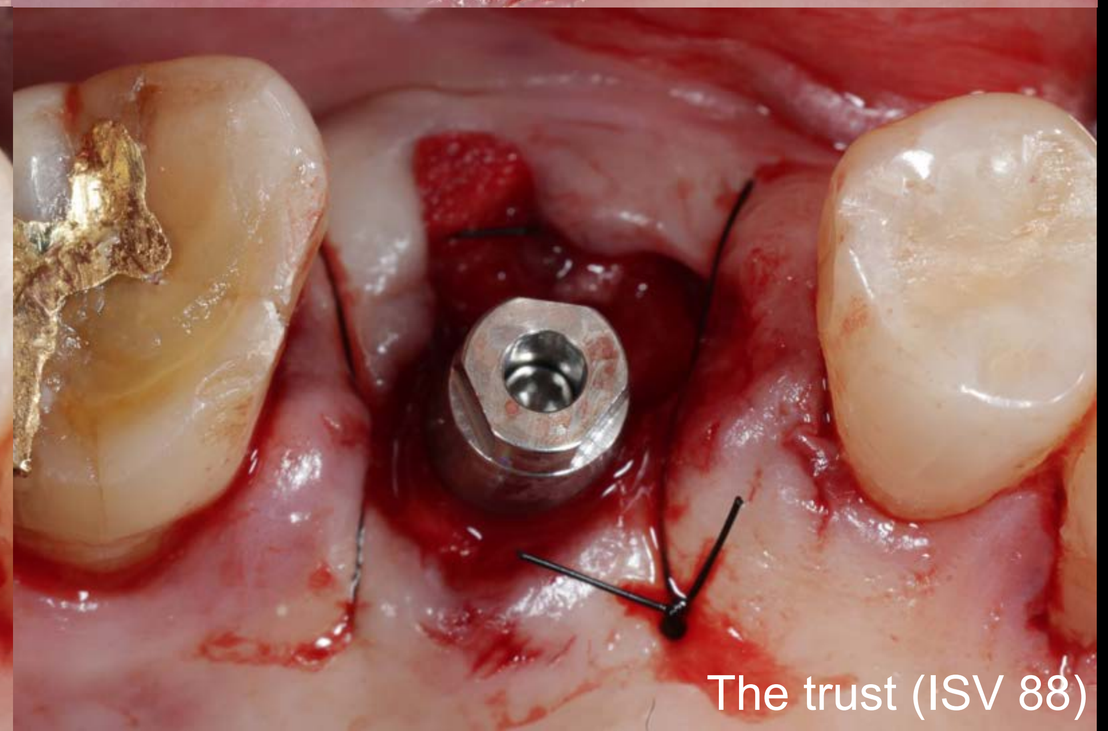
Surgery (2024-11-05)





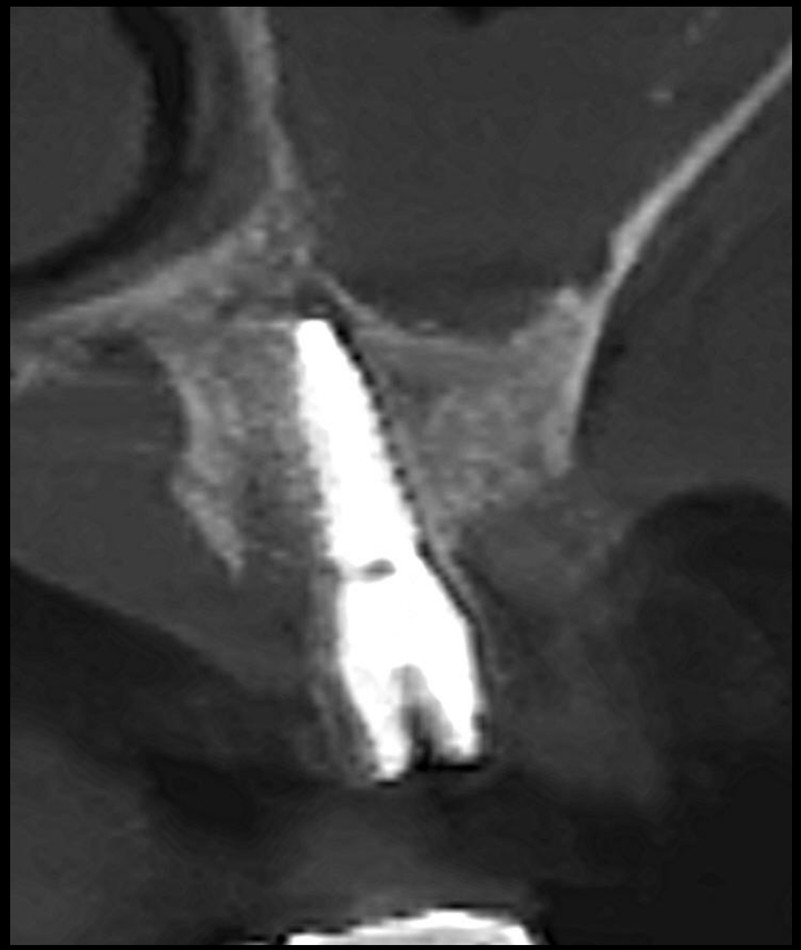


bright TL (Ø3.5 X 9.0)
Collagen Graft x1D



The trust (ISV 88)

Post-op (2024-11-13)



#16

Healing : 1 week (2024-11-13)

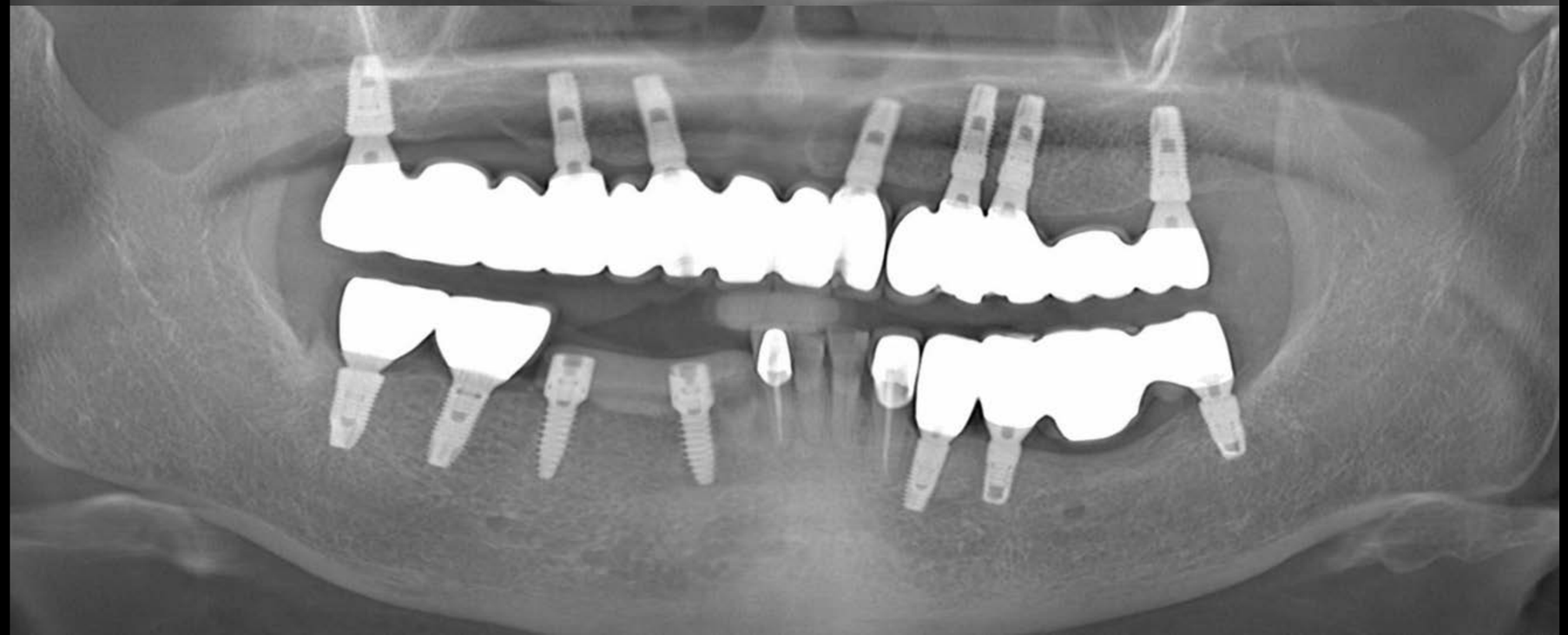
The trust (ISV 76)

Final prosthesis (2024-11-13)

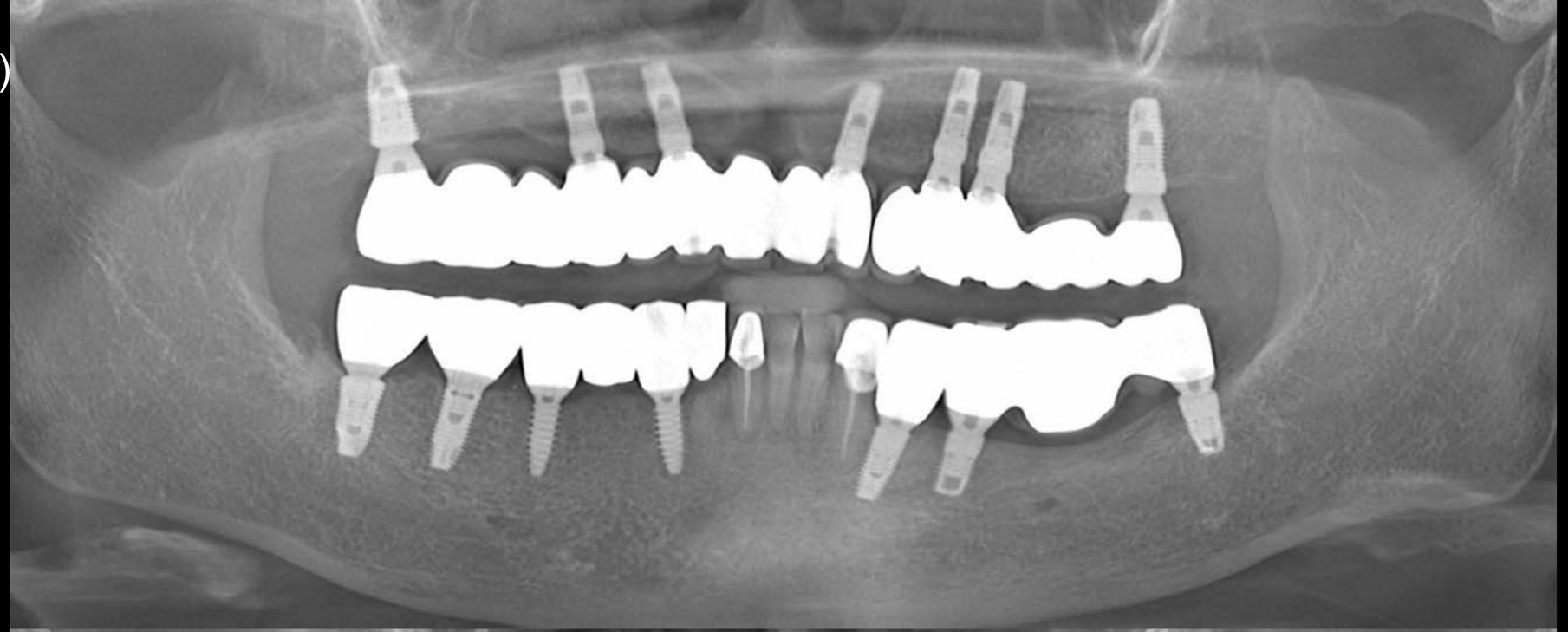
Follow up : 2 months (2025-01-10)

Pre-op (2020-07-15)

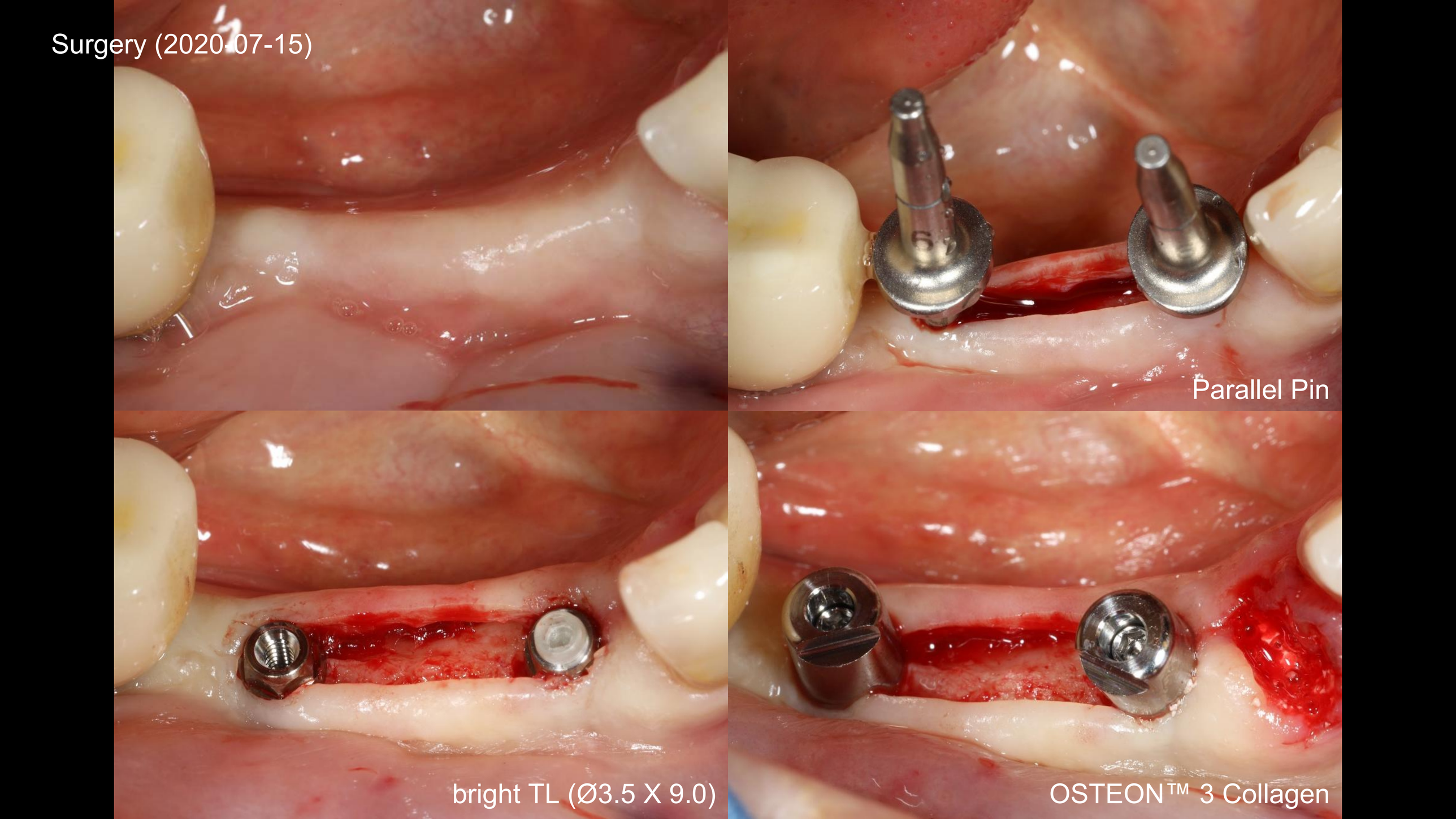
Post-op (2020-07-15)



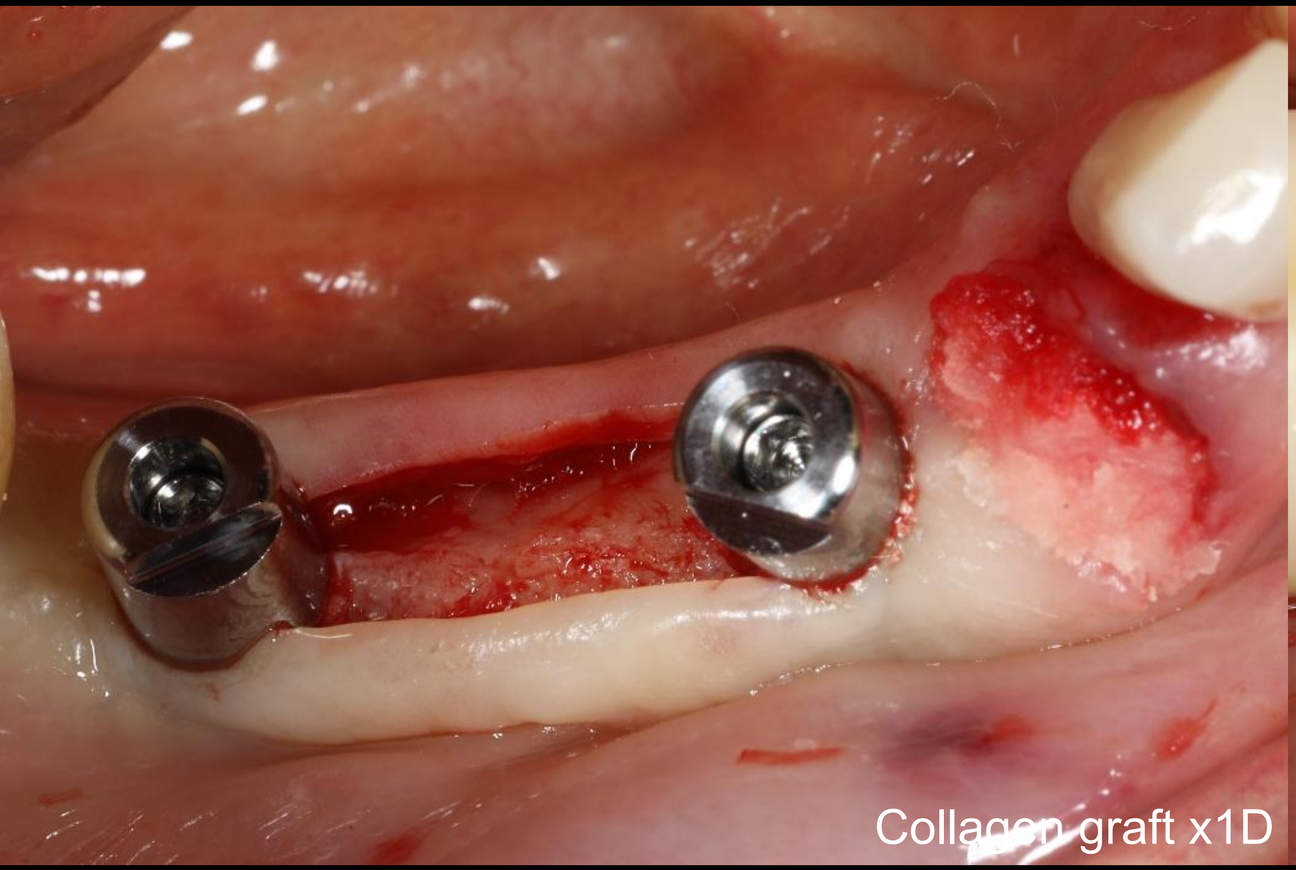
Final prosthesis (2020-11-09)



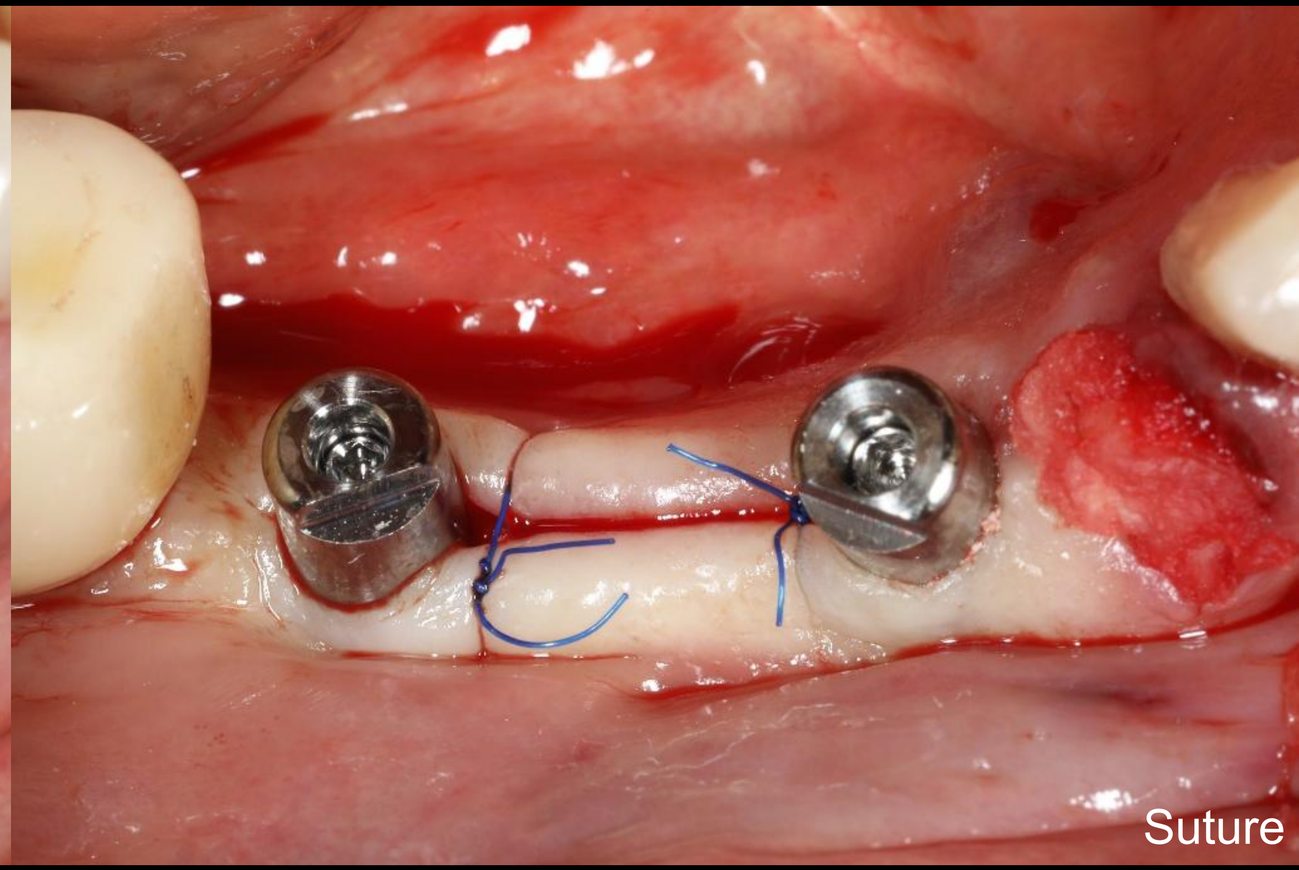
Follow up : 3 years 4 months (2024-03-20)


Surgery (2020-07-15)
Parallel Pin
bright TL (Ø3.5 X 9.0)
OSTEON™ 3 Collagen

Surgery (2020-07-15)

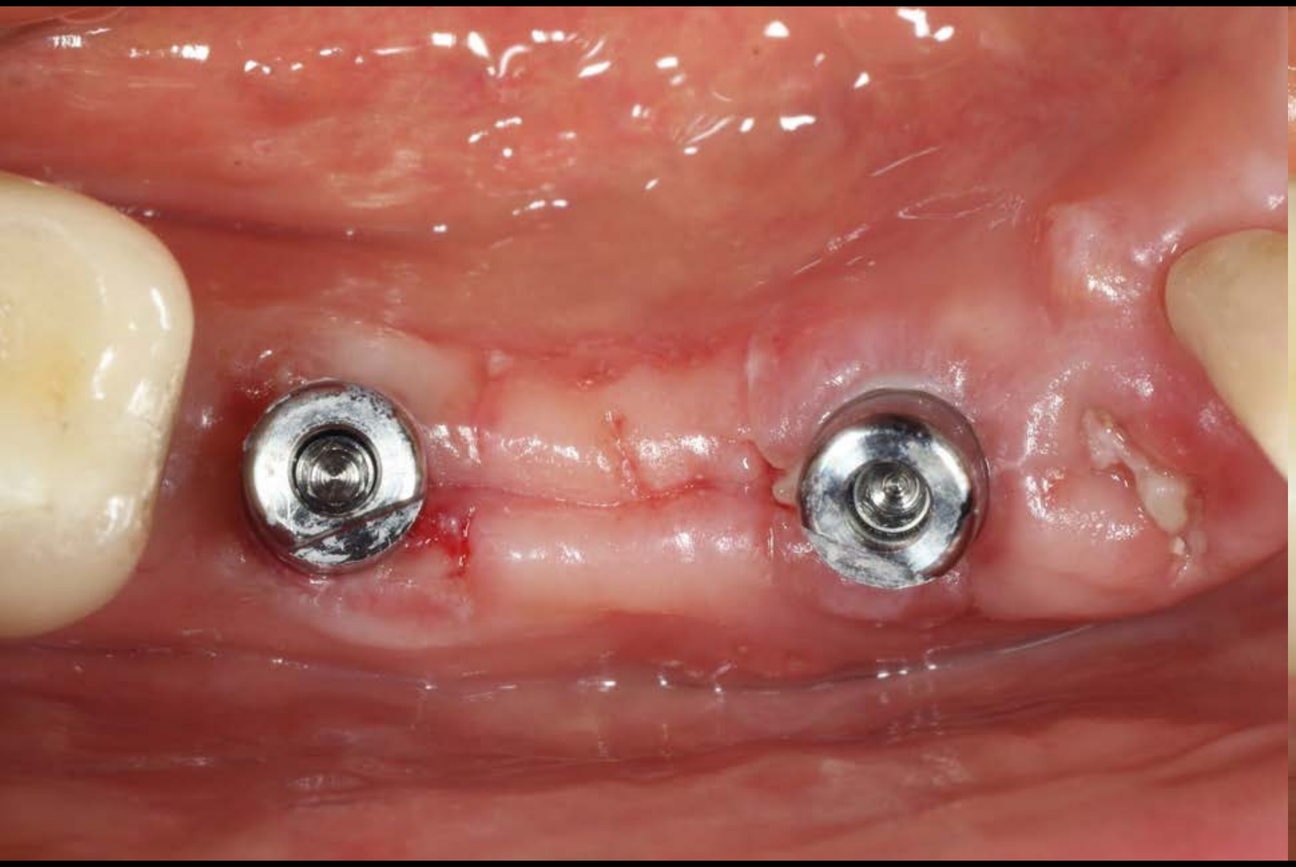


Collagen graft x1D

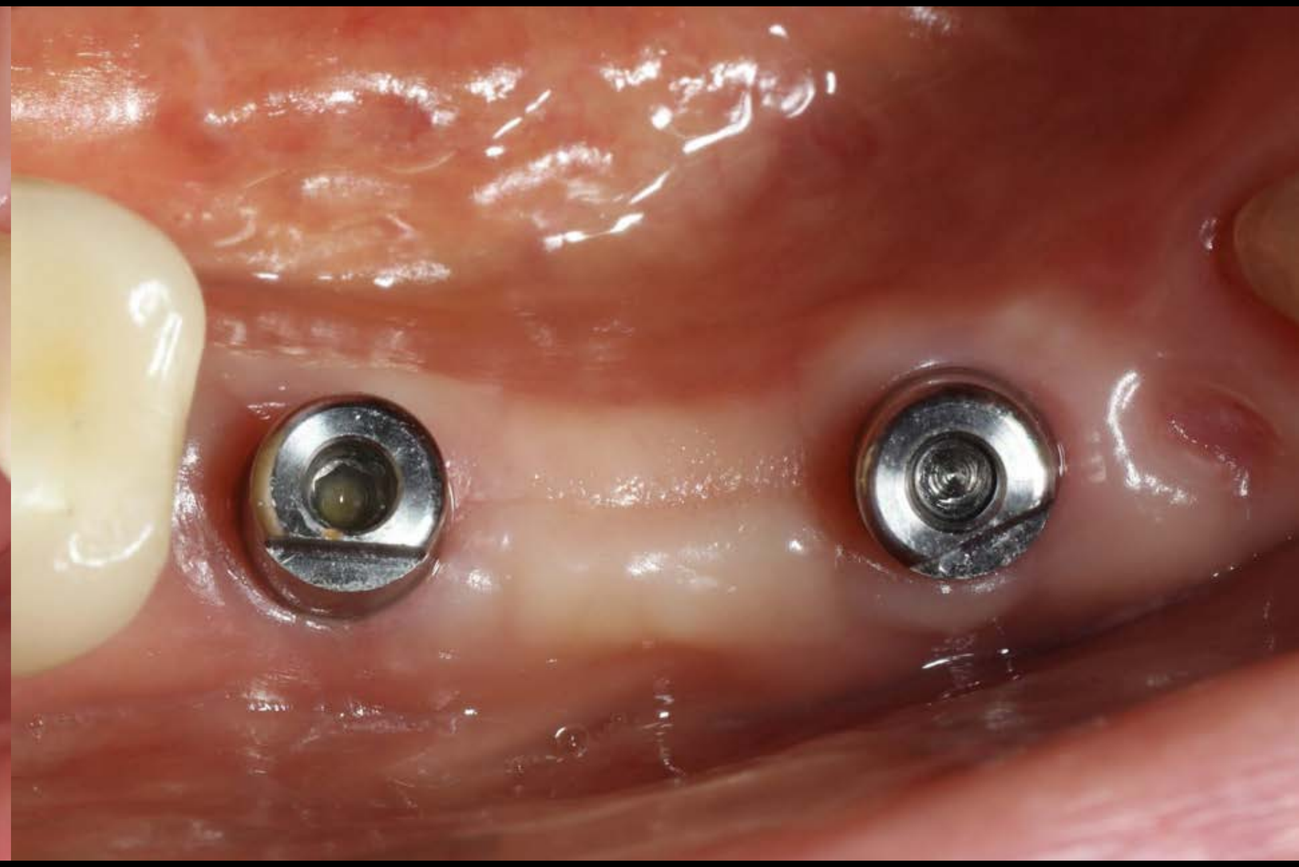


Suture

Healing : 1 week (2020-07-22)

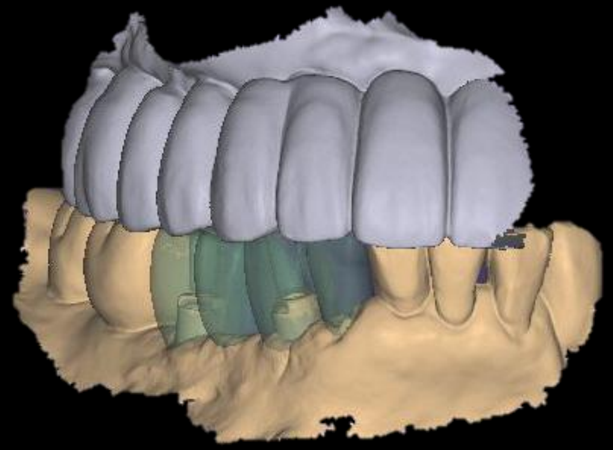


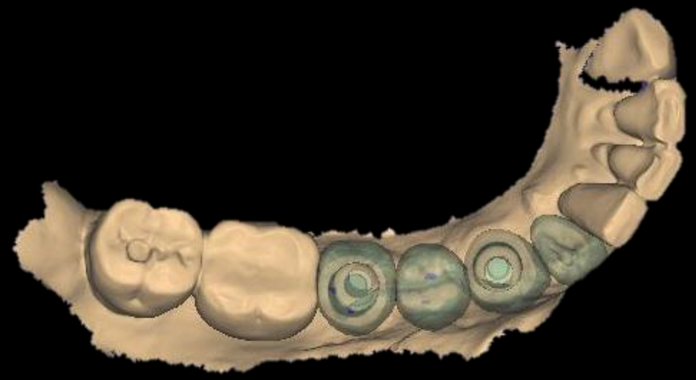
Healing : 3 weeks (2020-08-06)

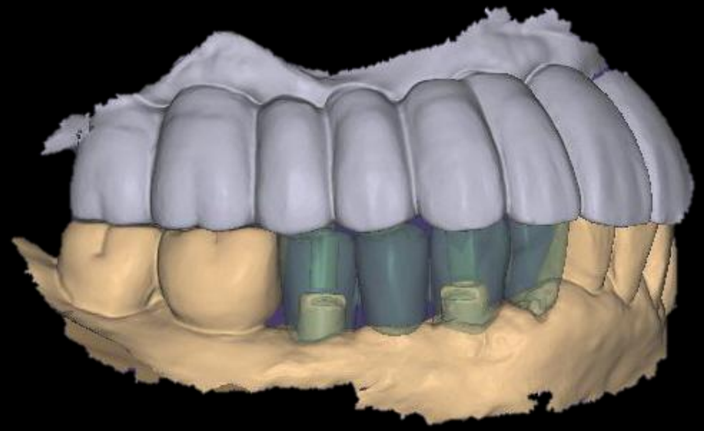


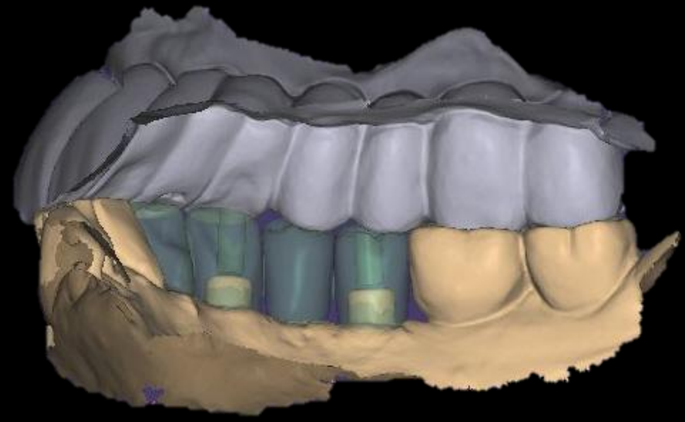
Intra Oral Scan

CAD (Temporary)









Metal Link / Temporary

Provisional restoration (2020-08-06)

Normal bone

ø2.5

ø3.0

1 size under drilling

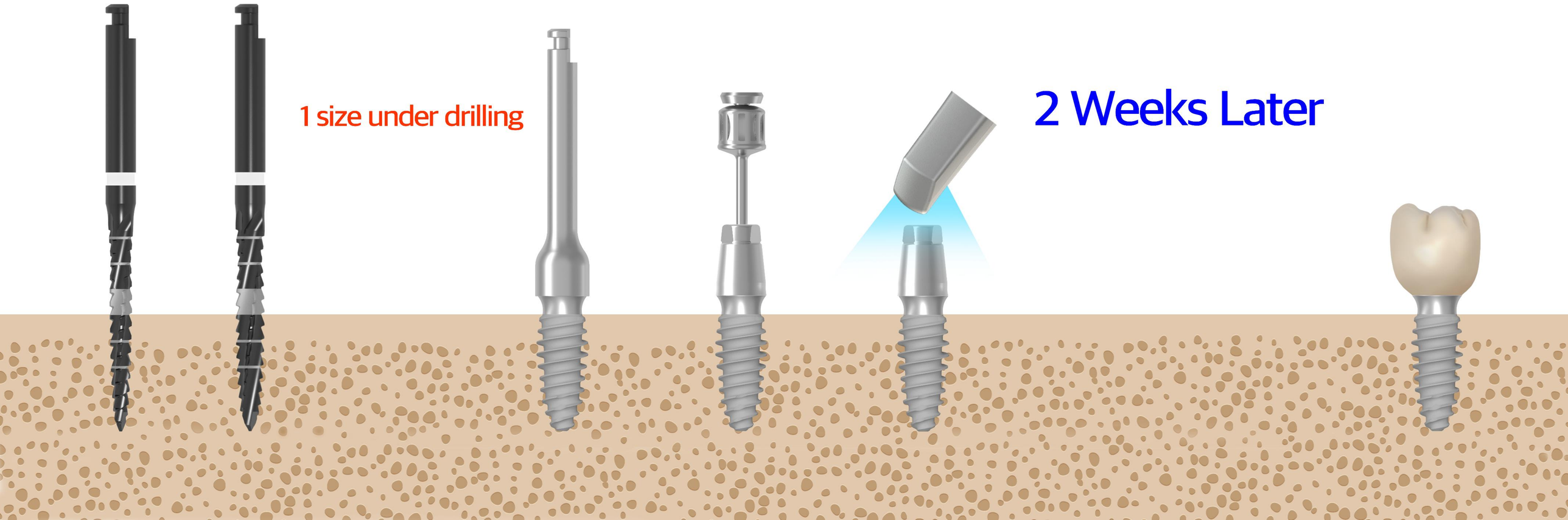
bright TL
ø3.5 X 9.0mm

Digital Abutment

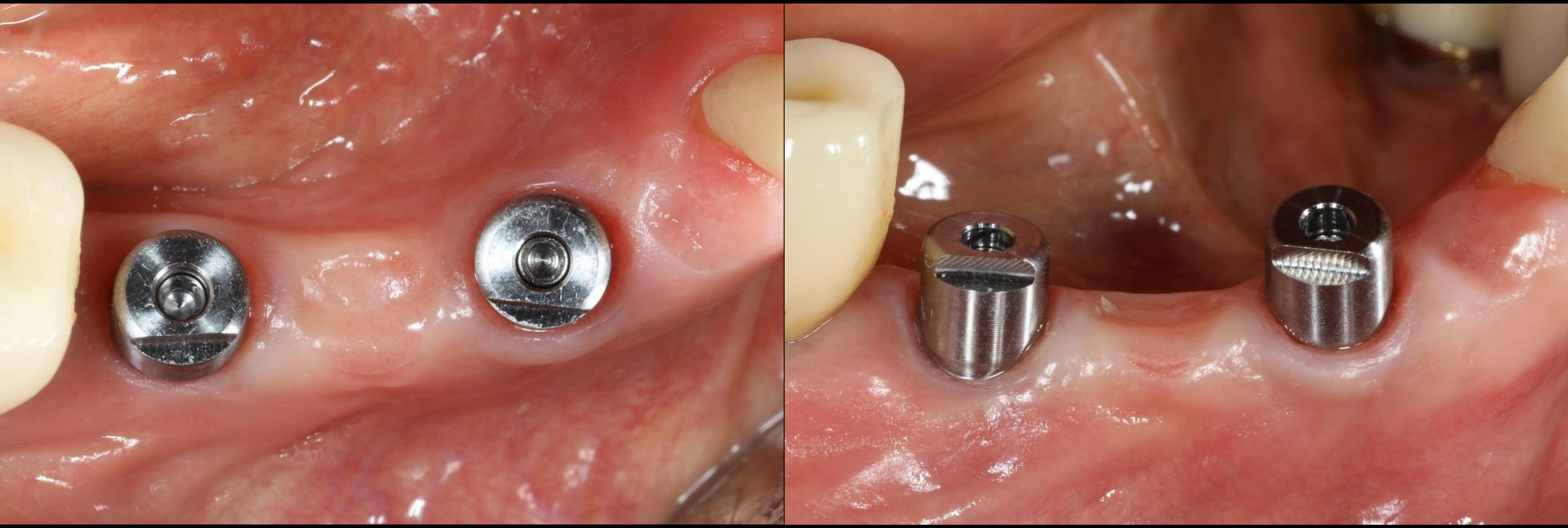
Intra Oral Scan

2 Weeks Later

Crown loading

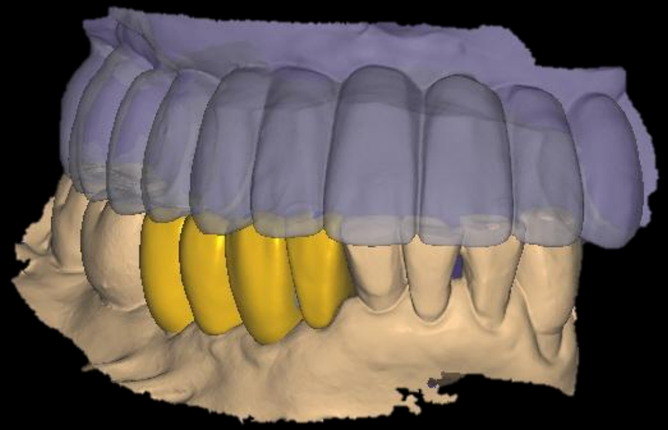


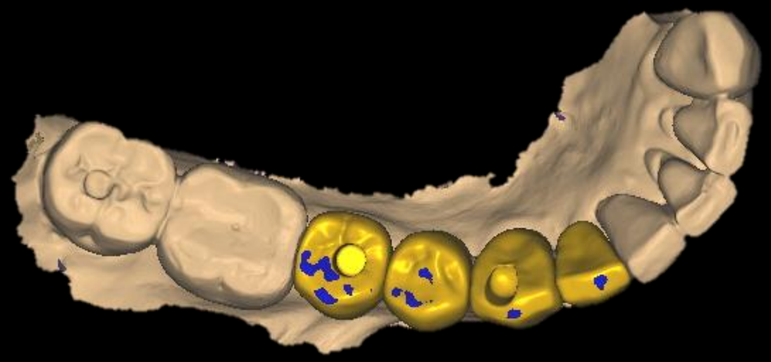
Final Impression (2020-10-15)

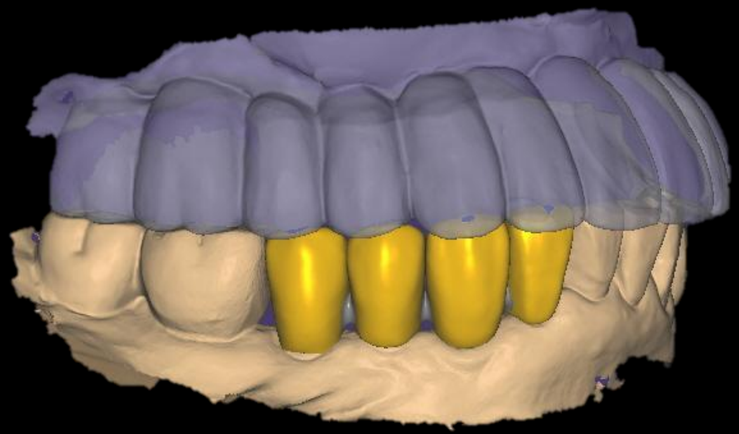


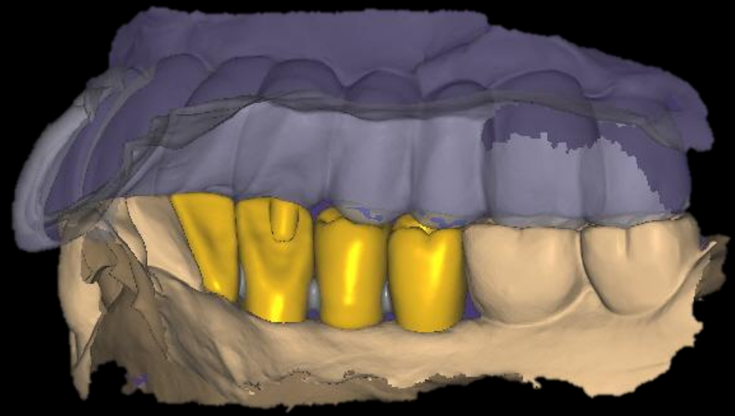
Intra Oral Scan

CAD (Final prosthesis)







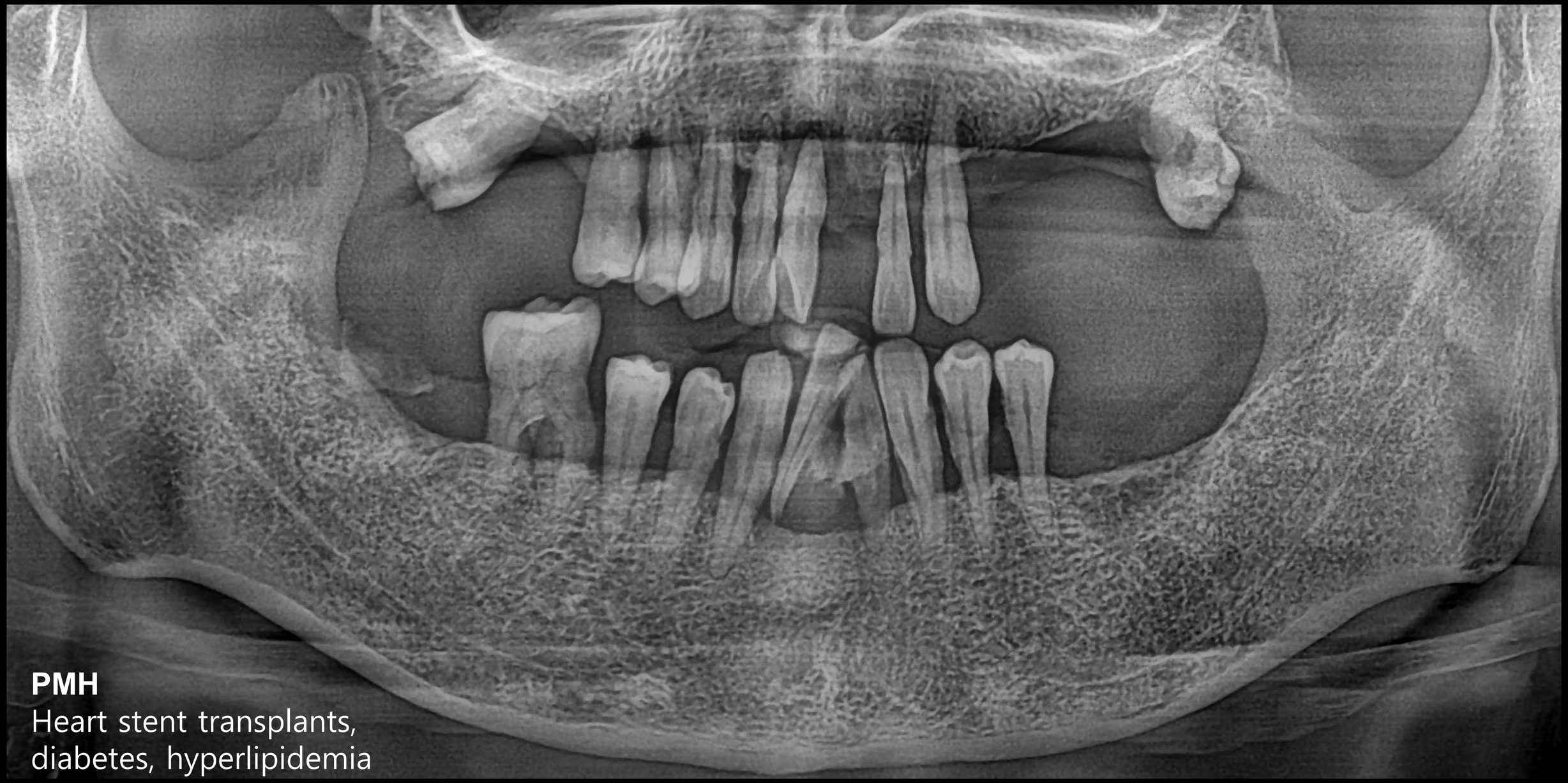


Milling / Coloring / Sintering / Glazing

Final prosthesis (2020-11-09)

HRF (2020-11-30)

Pre-op (2023-08-08)

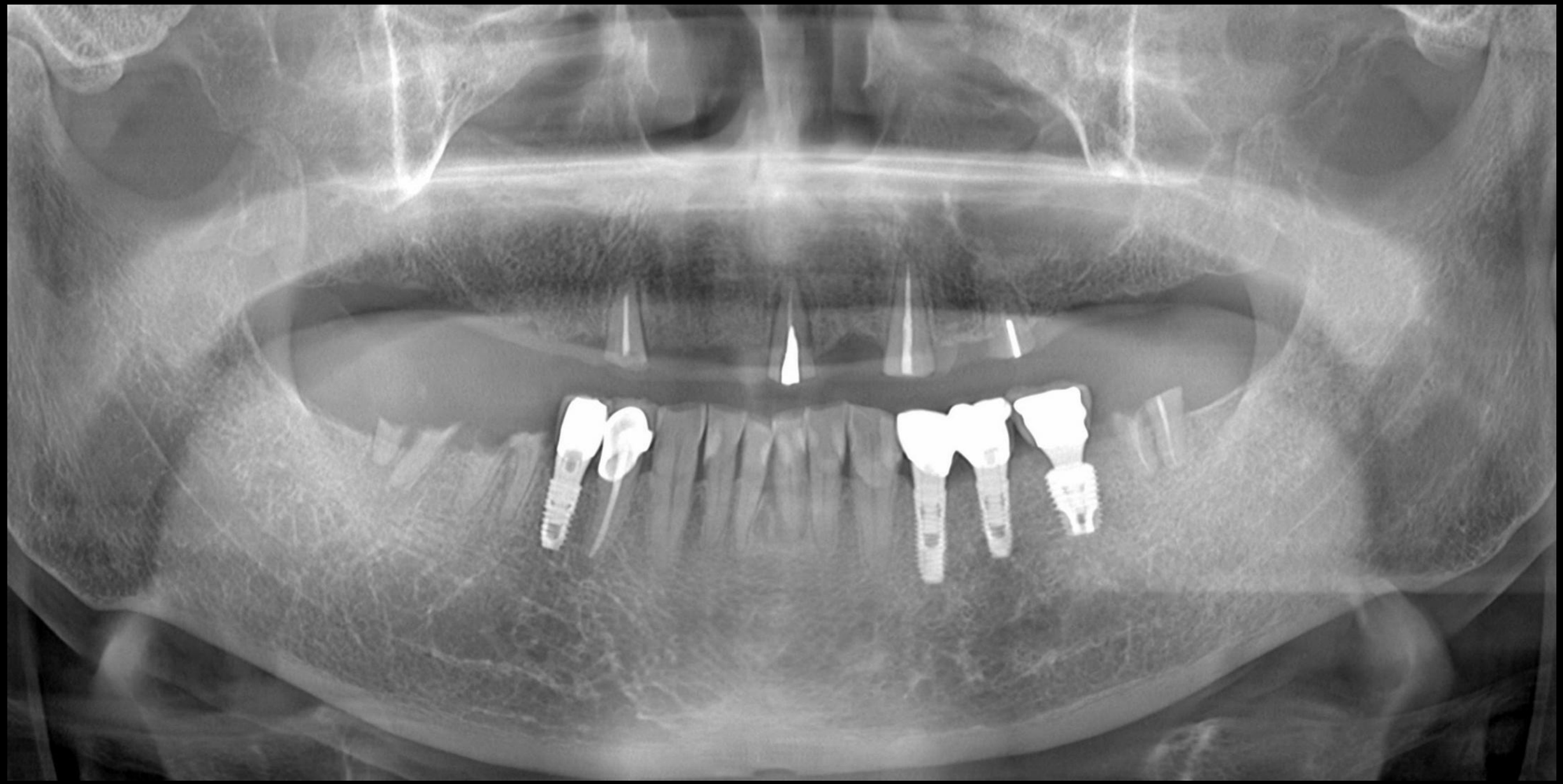


PMH
Heart stent transplants,
diabetes, hyperlipidemia

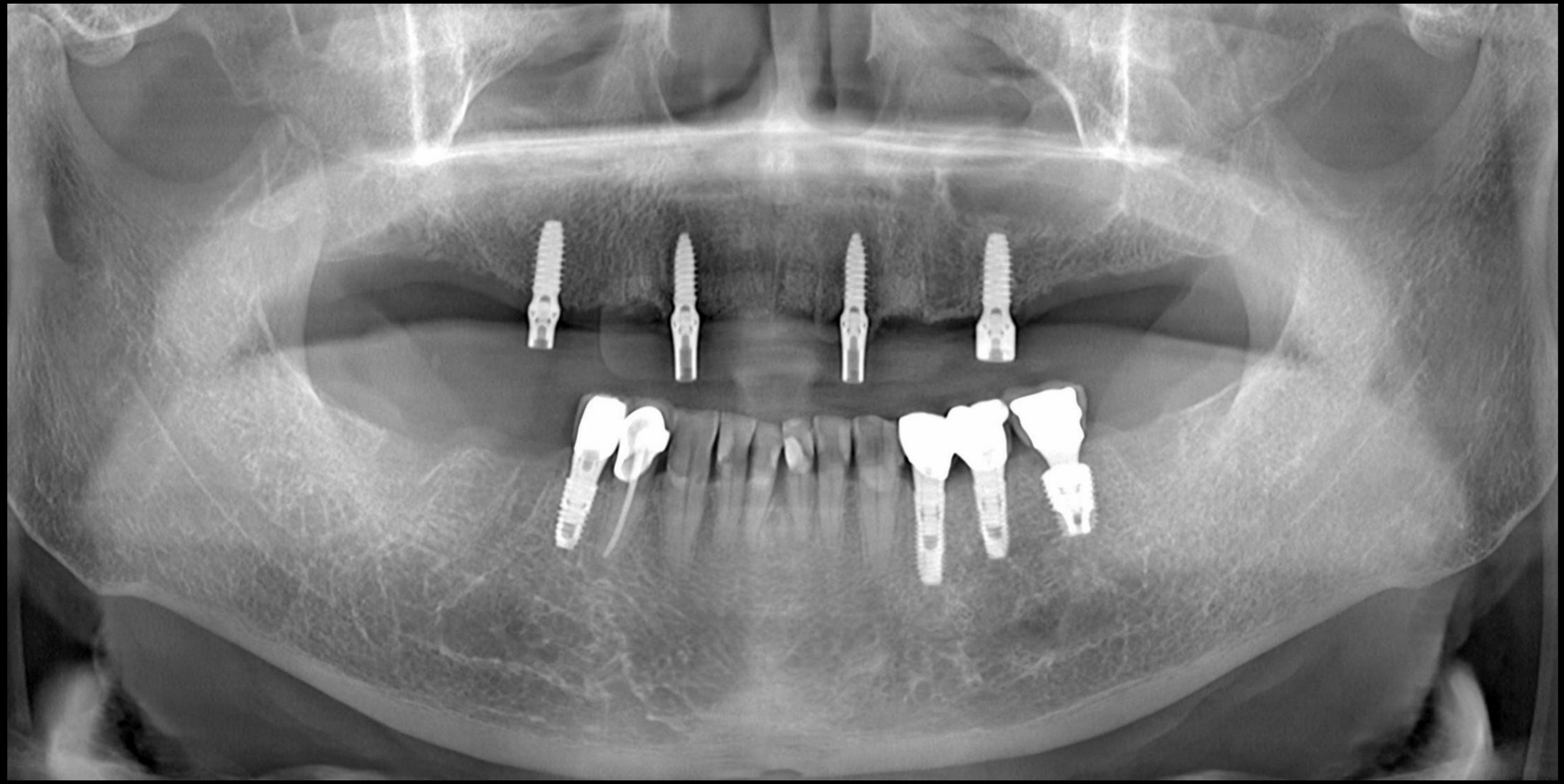
Final prosthesis (2024-01-16)

Final prosthesis (2024-01-21)

Pre-op (2021-04-07)



Post-op (2021-05-07)



Follow up : 1 year (2022-10-14)

Final prosthesis (2021-10-08)

Minimalism is

Not only minimal invasive surgery

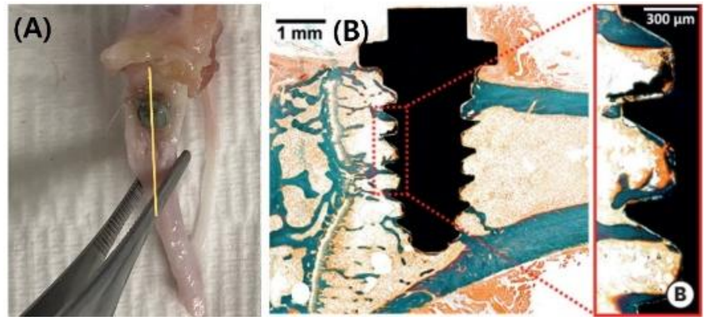
But also minimal number, short and narrow

And early loading - normally 4 week loading

Implant + GENOSS PDRN : 7 day

1 Purpose : **To determine the effect of PDRN on early bone regeneration**

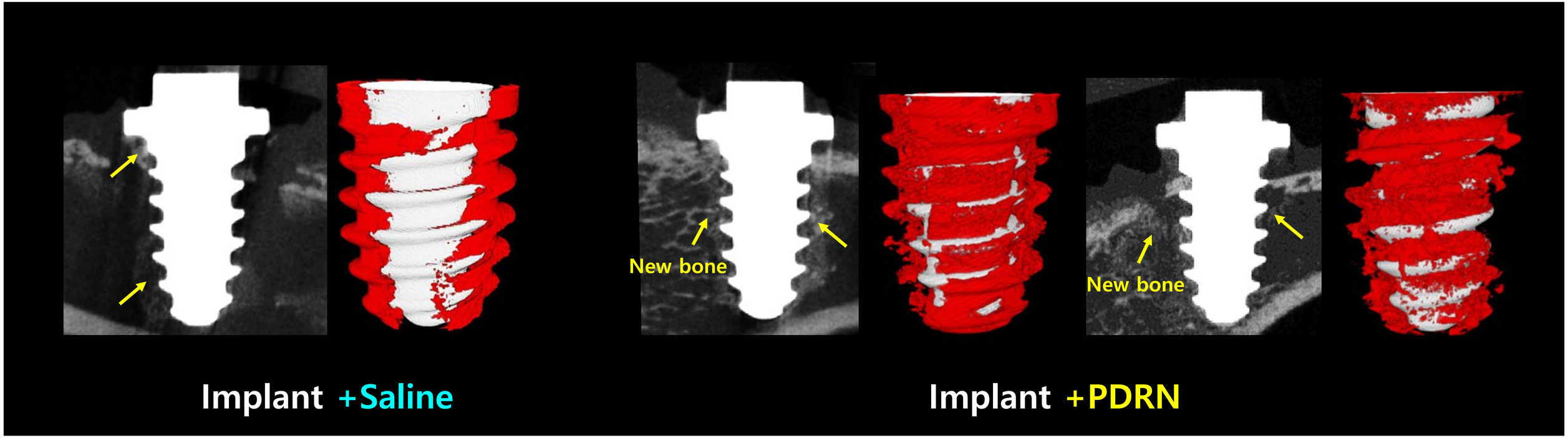
2 Conclusion : **Bone formation increased by 54% with PDRN ↑**



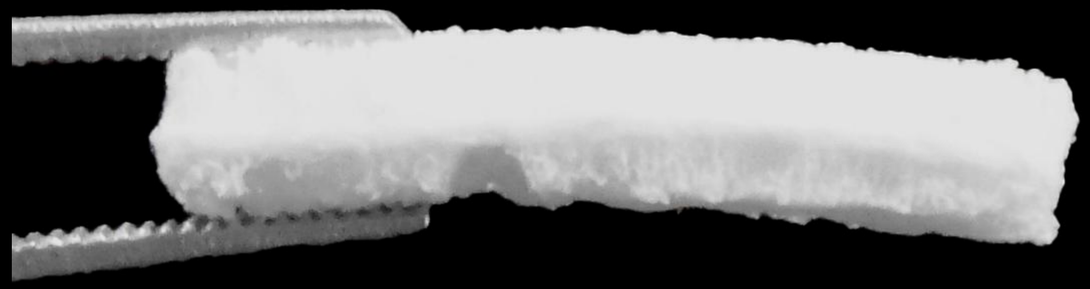
<Reference>

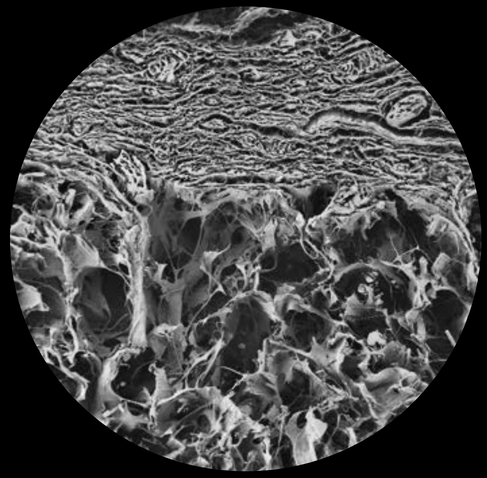
Saline **PDRN**

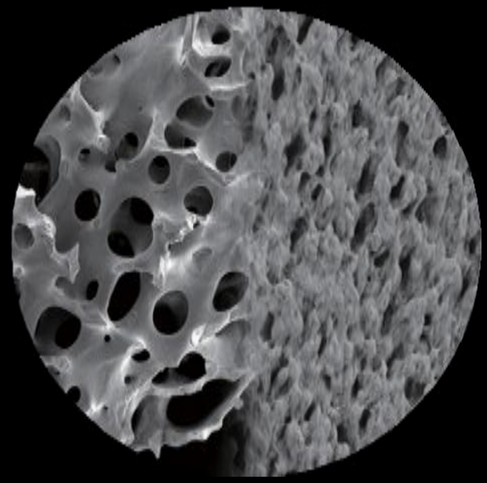
*** Procedure : Implant PDRN soaking implant placement in Rat tibia**



Correlation between industrialization and clinical applications







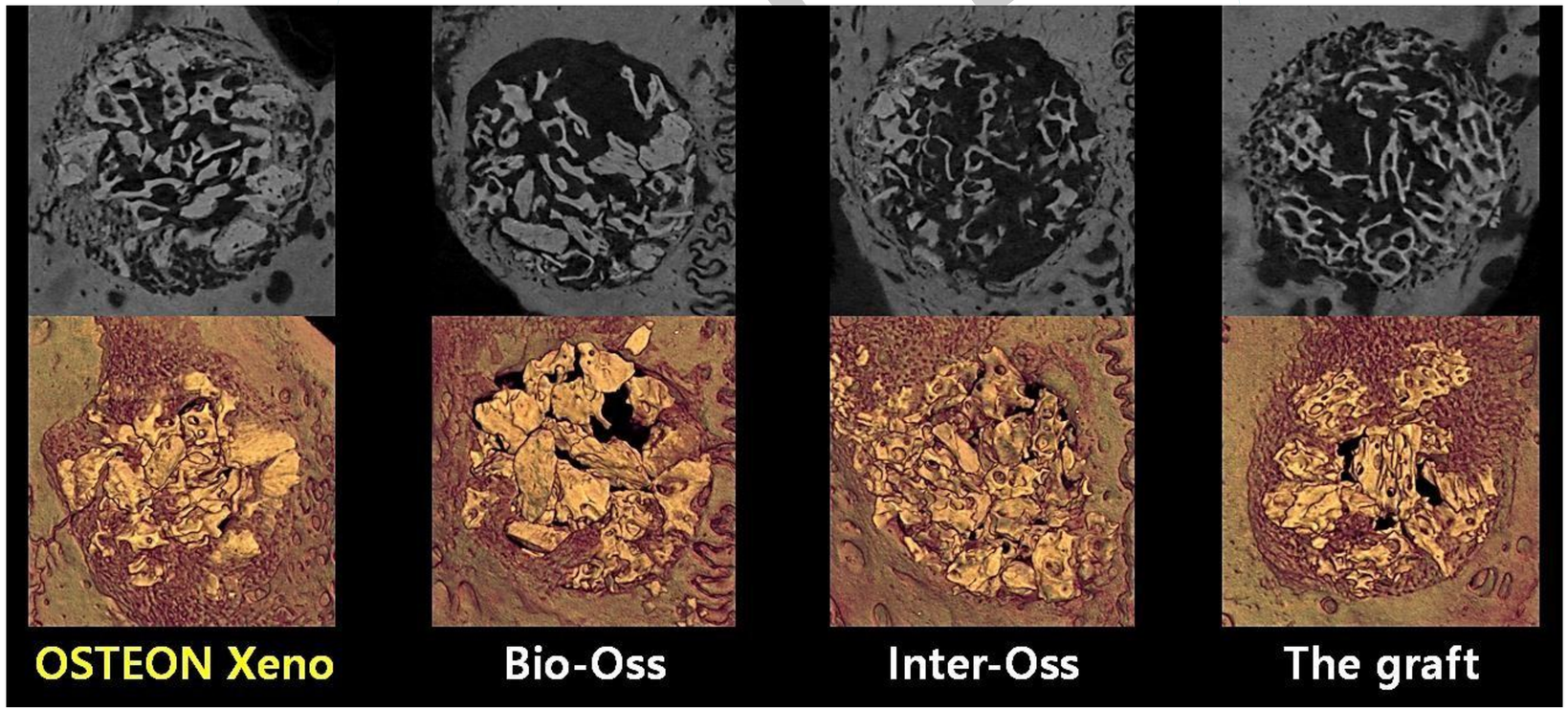
In-house Animal Study

OSTEON Xeno : Bone Formation Assessment (4w)

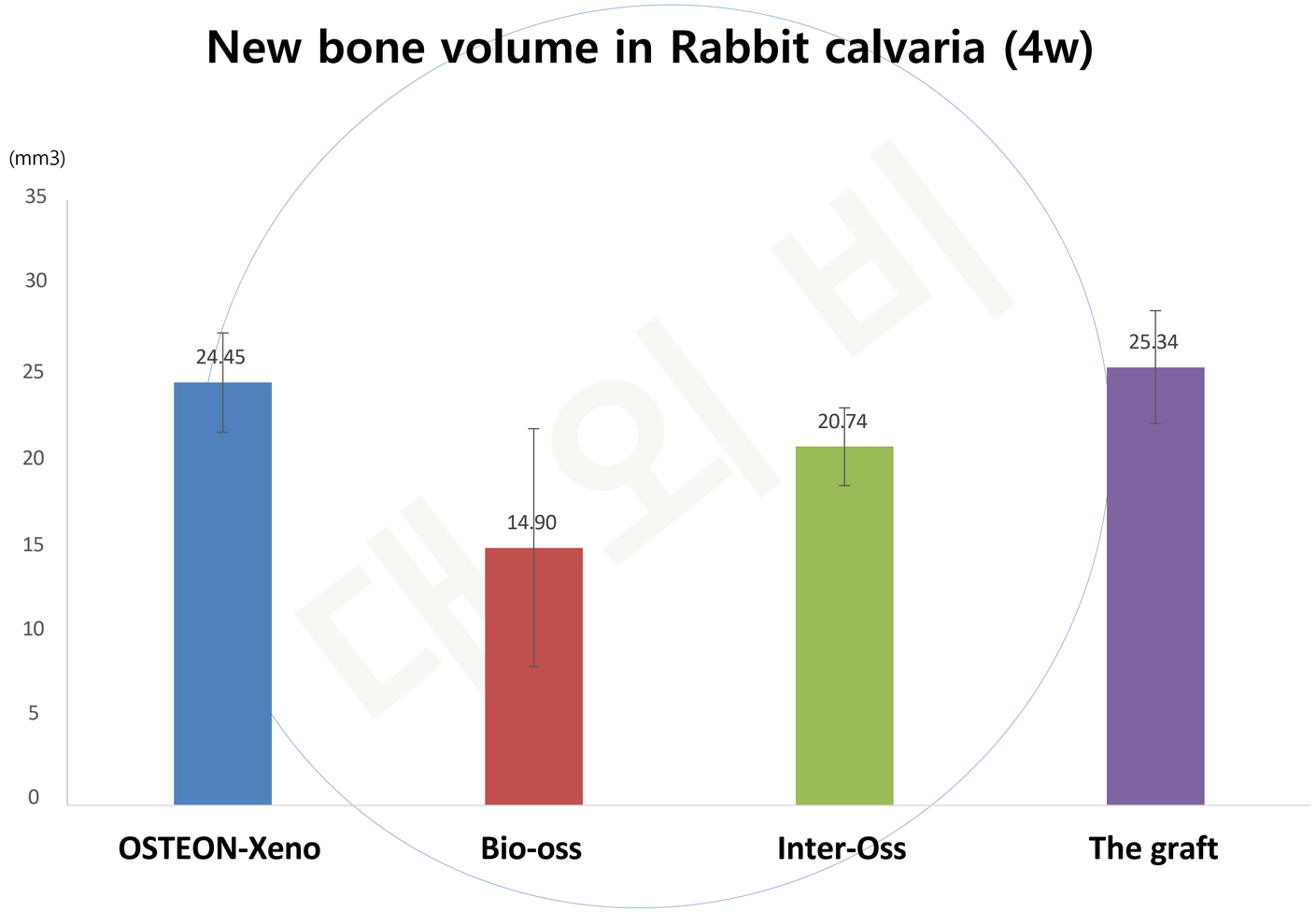
1 Purpose : **Comparison of 3 Commercial Bone Grafts (Bio-Oss, Inter-Oss, The Graft)**

2 Conclusion : **OSTEON Xeno ≒ The graft > Inter-Oss > Bio-Oss**

2 Action plan : **Document preparation and sharing with relevant departments**



micro-CT Quantitative analysis



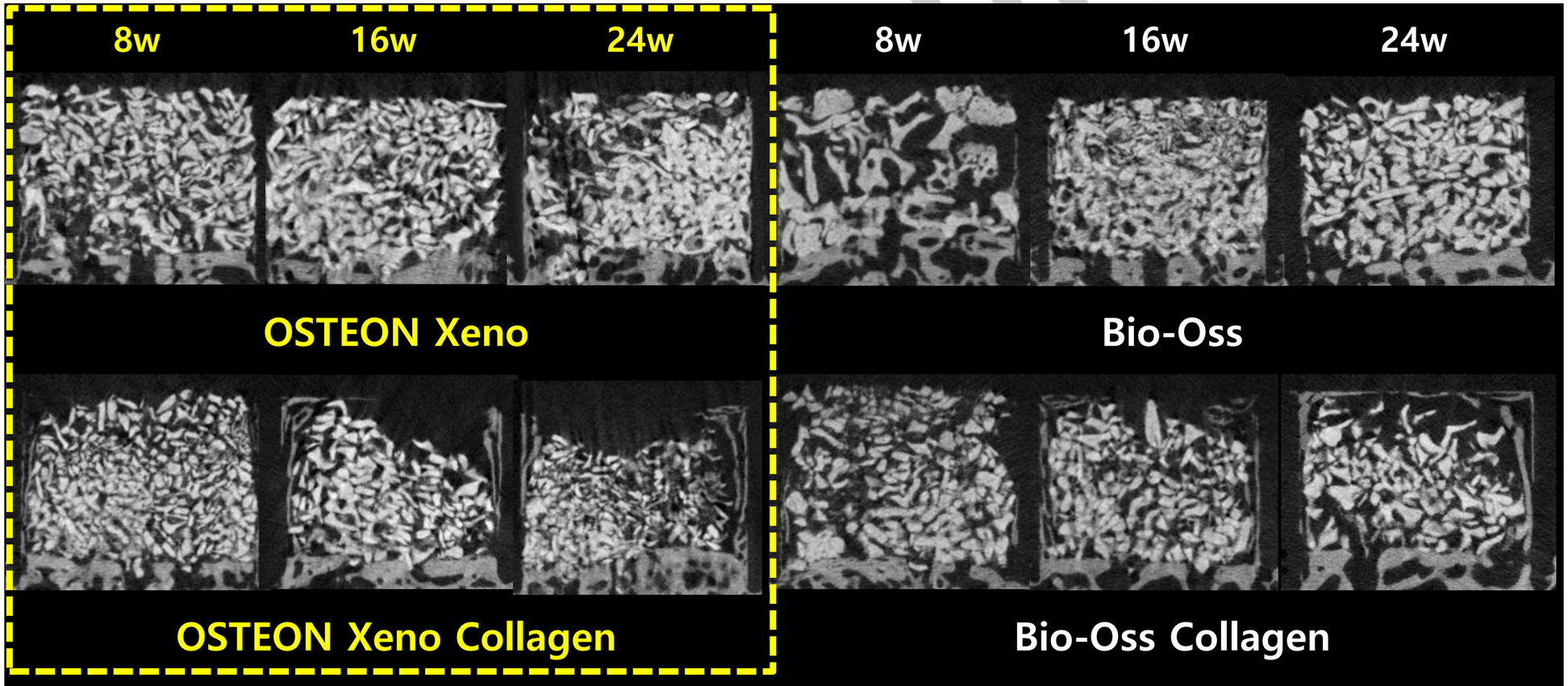
In-house Animal Study

OSTEON Xeno, Xeno collagen

1 What should : **OSTEON Xeno vs Bio-Oss product line comparison (8, 16, 24w)**

2 How to : Bio-Oss 와 **Degree of Osteogenic Equivalence**

No.	Location	Class	Bone graft material
1	Rabbit skull	Control group	Bio-Oss
2			Bio-Oss Collagen
3		Experimental group	**OSTEON Xeno**
4			**OSTEON Xeno Collagen**

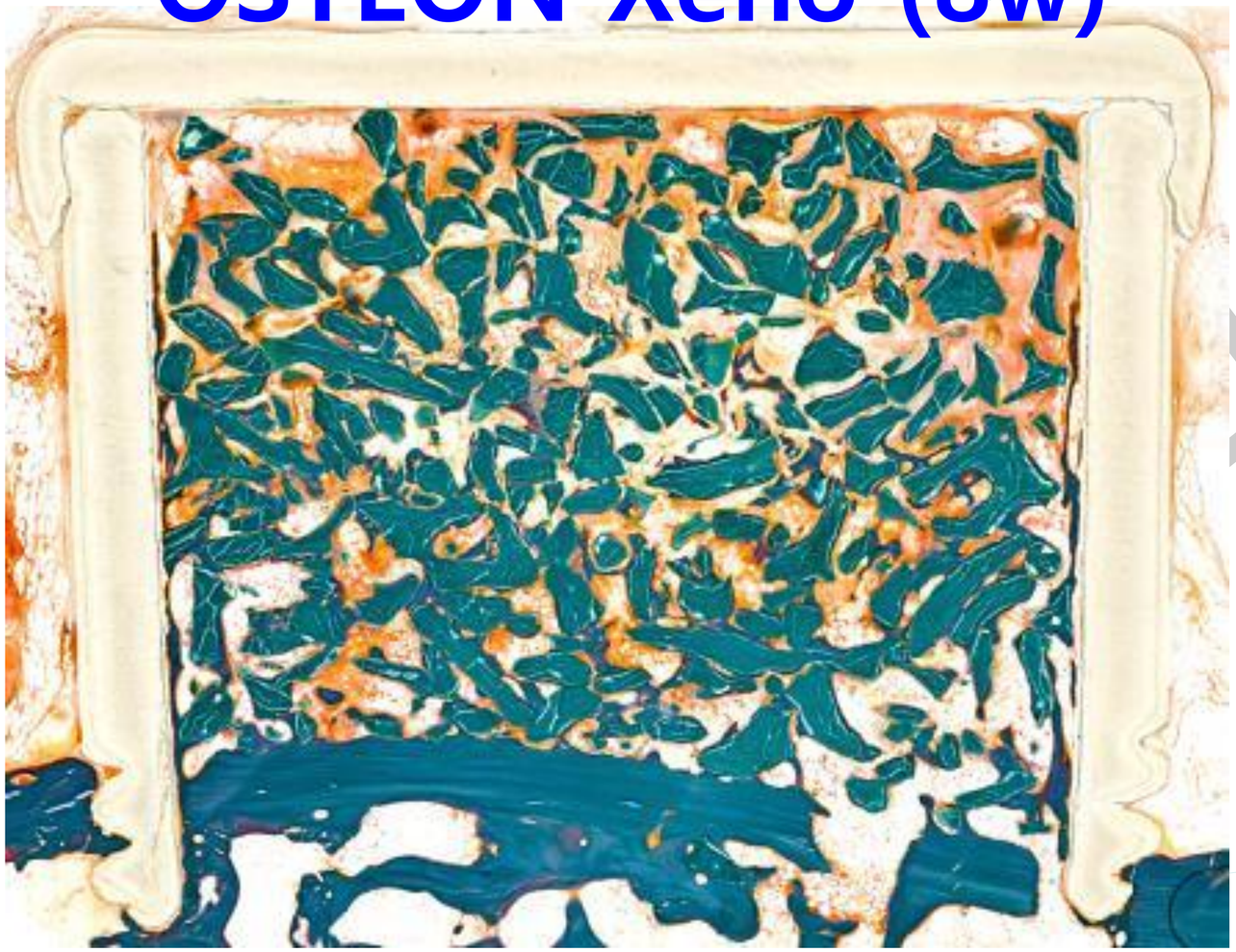


Rabbit calvaria

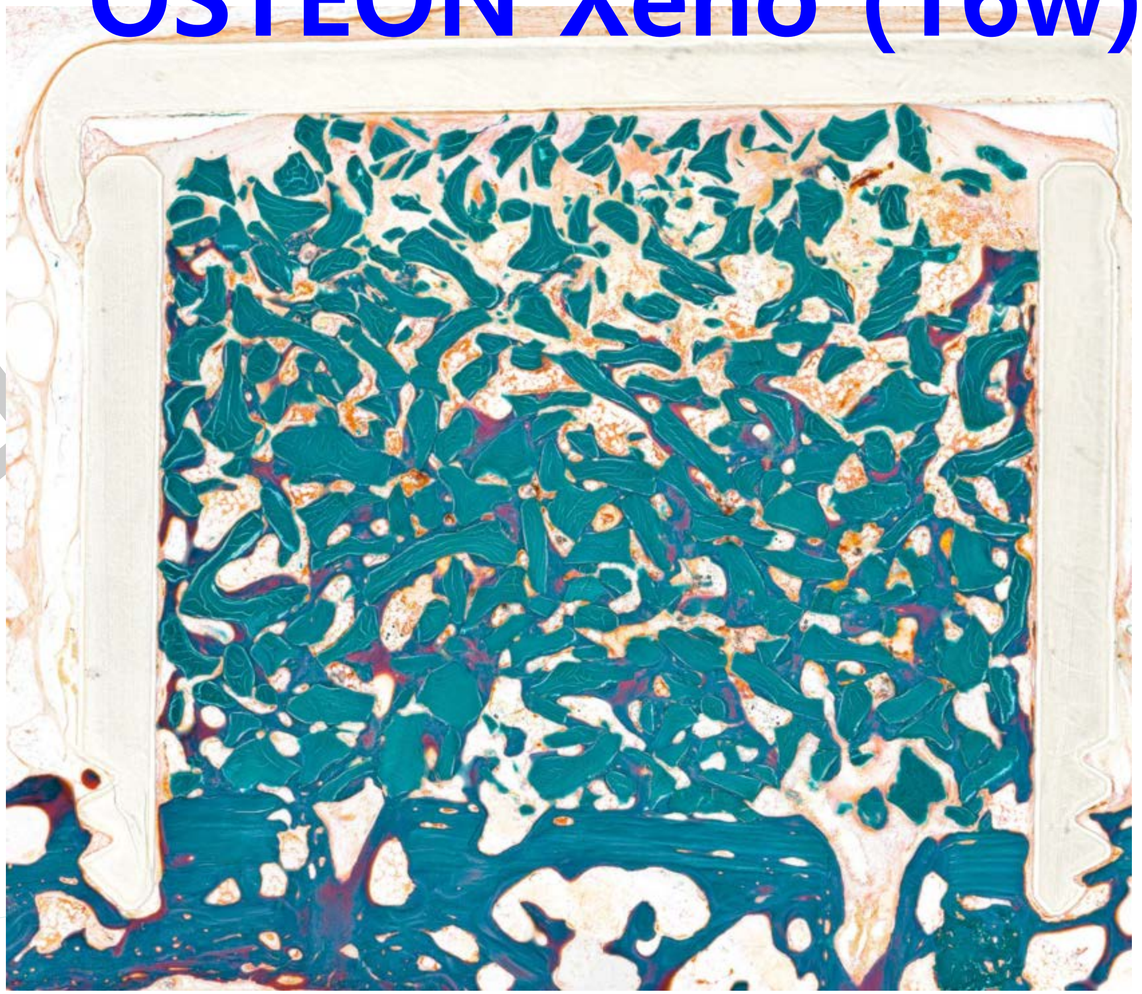
GENOSS

▶ In-house Animal Study (Rabbit Experiment: Plastic Tube Implantation 8, 16w

OSTEON Xeno (8w)

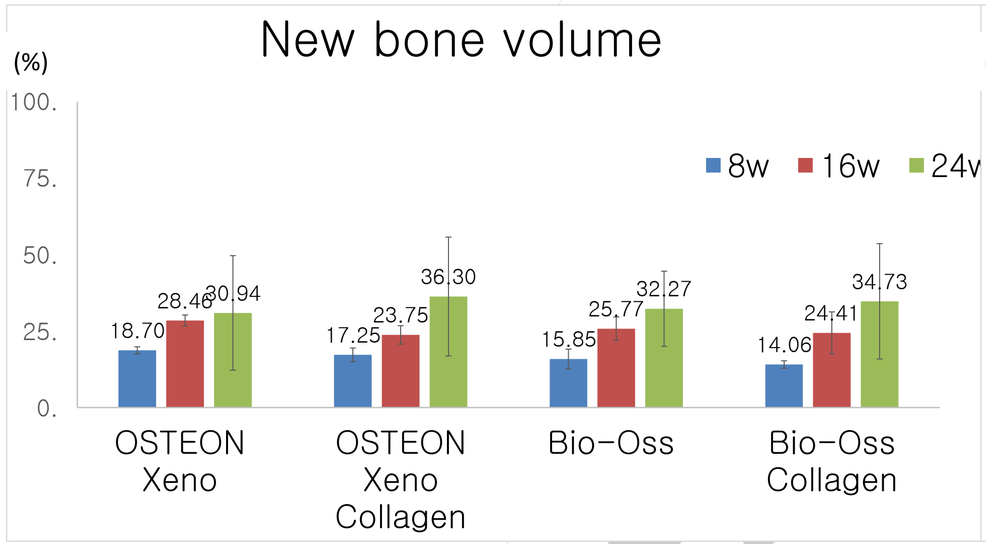


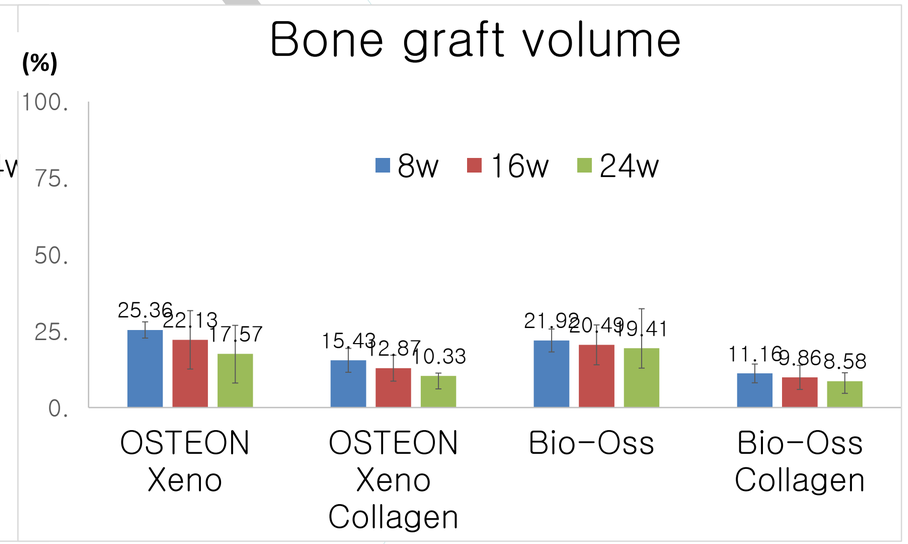
OSTEON Xeno (16w)



In-house Animal Study

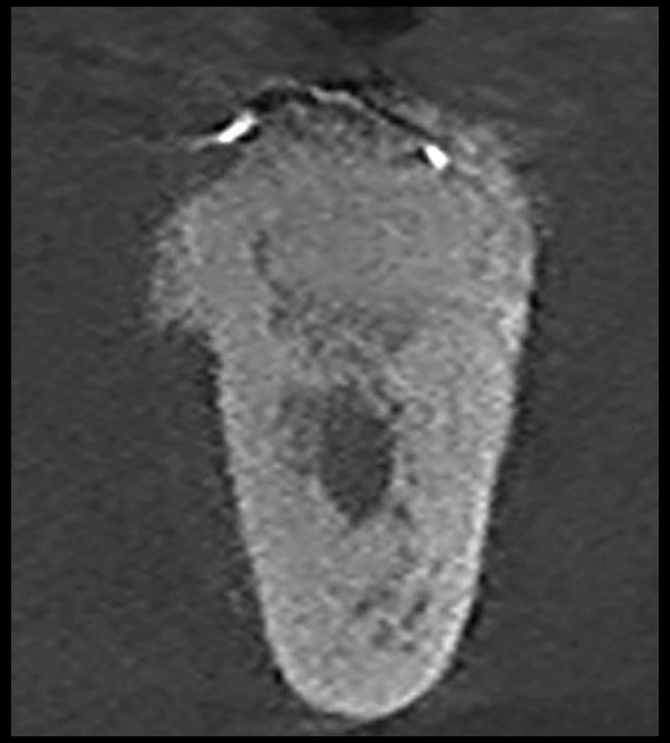
micro-CT Quantitative analysis





Oral-exam (2022-04-28)

Pre-op CT (2023-04-10)



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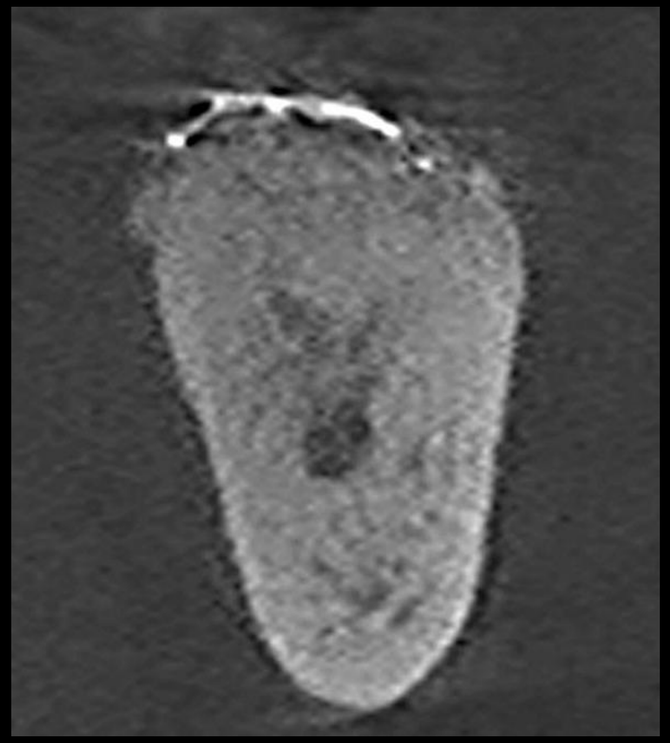

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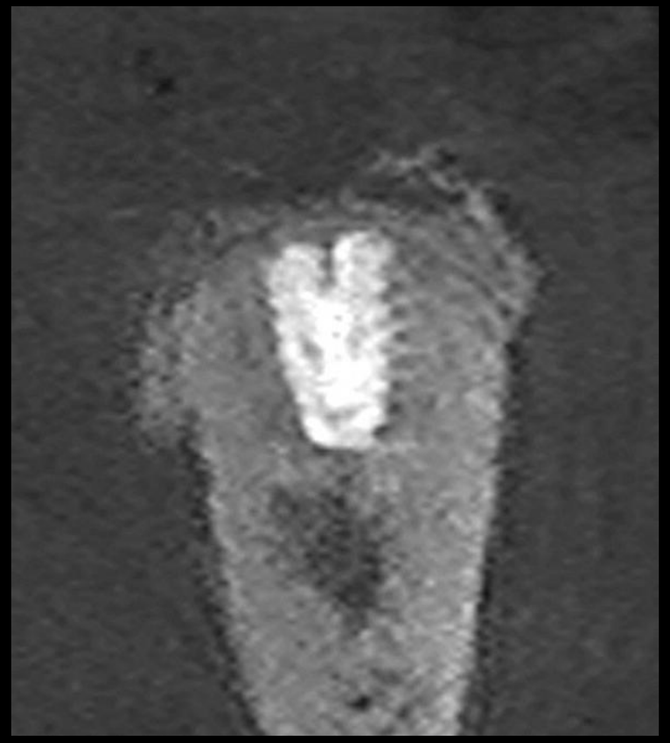
Post-op CT (2023-04-10)

#47



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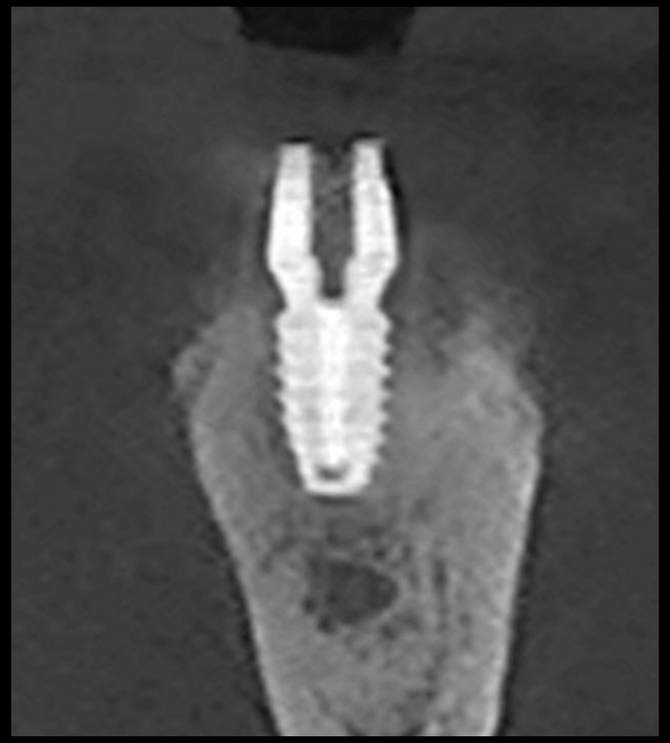
Healing 3 months CT (2023-07-13)



#47

#46

Final prosthesis (2023-09-20)

Follow up : 2 months (2023-12-06)

I. Description

PN vs. PDRN

- **Genetic material extracted from the testes and semen of salmon (Oncorhynchus keta)**
- **DNA polymer that exhibits tissue regeneration activity and anti-inflammatory effects**

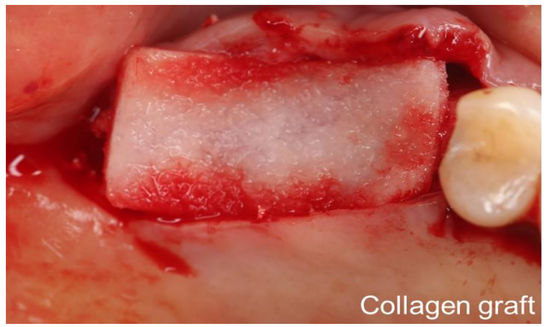
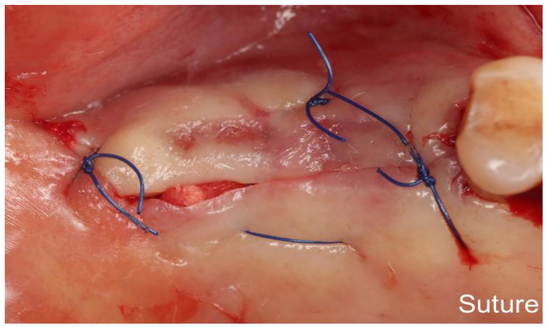
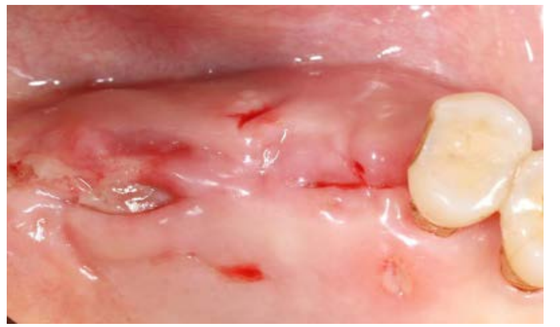
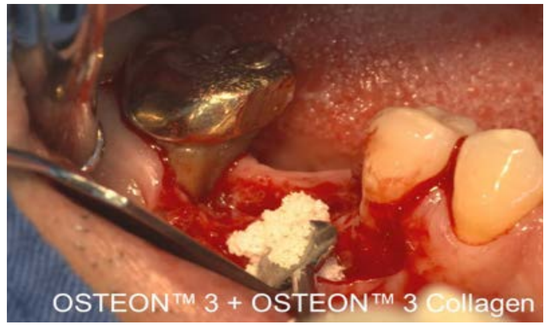
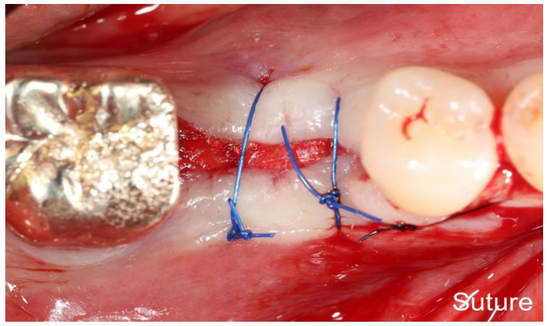
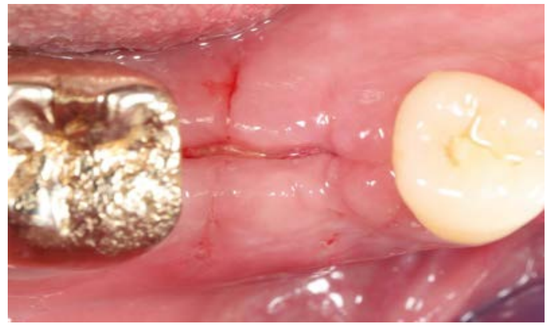
PN **(Polynucleotide)**	**PDRN** **(Polydeoxyribonucleotide)**
Extracted from **salmon testes**	Extracted from **salmon semen**
Polymer 500 ~ 3,000 kDa	**Small molecules** 50 ~ 1,500 kDa
Medical device material Concentration used : 20 mg/mL **Average MW : 1,000 kDa**	**Pharmaceutical** material Concentration used : 1.875 mg/mL **Average MW : 350 kDa**
Physical restoration, hydration and tissue elasticity	**Wound healing, anti-inflammation, angiogenesis**

Bright PDRN Inj.

Examples of PDRN

@ Dentium Dental Clinic

- Soaking Collagen Graft and Bone graft material in PDRN injection before grafting
- The remaining PDRN is injected into the surgical site (after suture)

	Surgery		Healing : 1 week
Case 1 Collagen Graft			
Case 2 OSTEON™ 3, OSTEON™ 3 Collagen			

Indication of PDRN or PN

Fast soft and hard tissue healing

White lesions

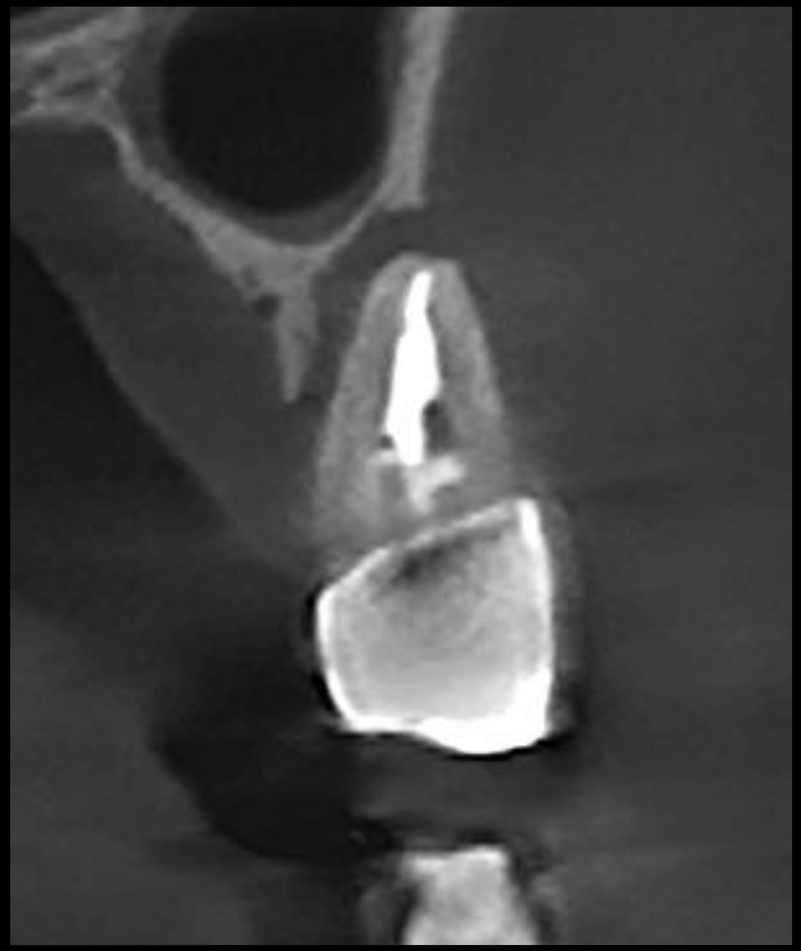
TMJ pain and inflammation relieve

Cellulitis

III. Product Introduction – Monalisa Skinboosters, Dressing

Category	Medical Device (II)	Cosmetics		
Product	**MONALISA Dressing**	**MONALISA HA 50+**	**MONALISA PN30**	**MONALISA PH**
Shape	No impurities, transparent and colorless gel			
Ingredient	Polynucleotide (PN)	Hyaluronic Acid (HA)	Polynucleotide (PN)	Polynucleotide (PN) + Hyaluronic Acid (HA)
Conc.	30 mg/mL	50 mg/mL (High : low-molecular ratio = 1:4)	30 mg/mL	PN 20 mg/mL non-crosslinked HA 10 mg/mL
Volume	1.0 mL	2.0 mL		
Storage Temp.	2 ~ 25℃			

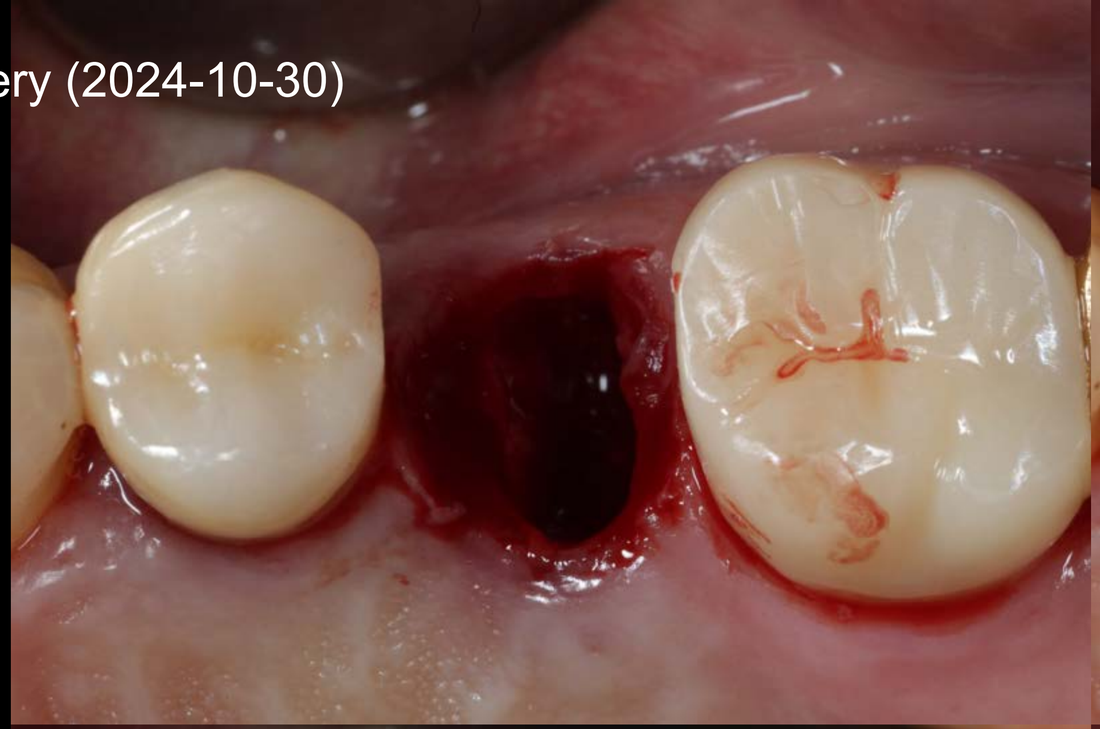
Oral exam (2024-10-30)



#25

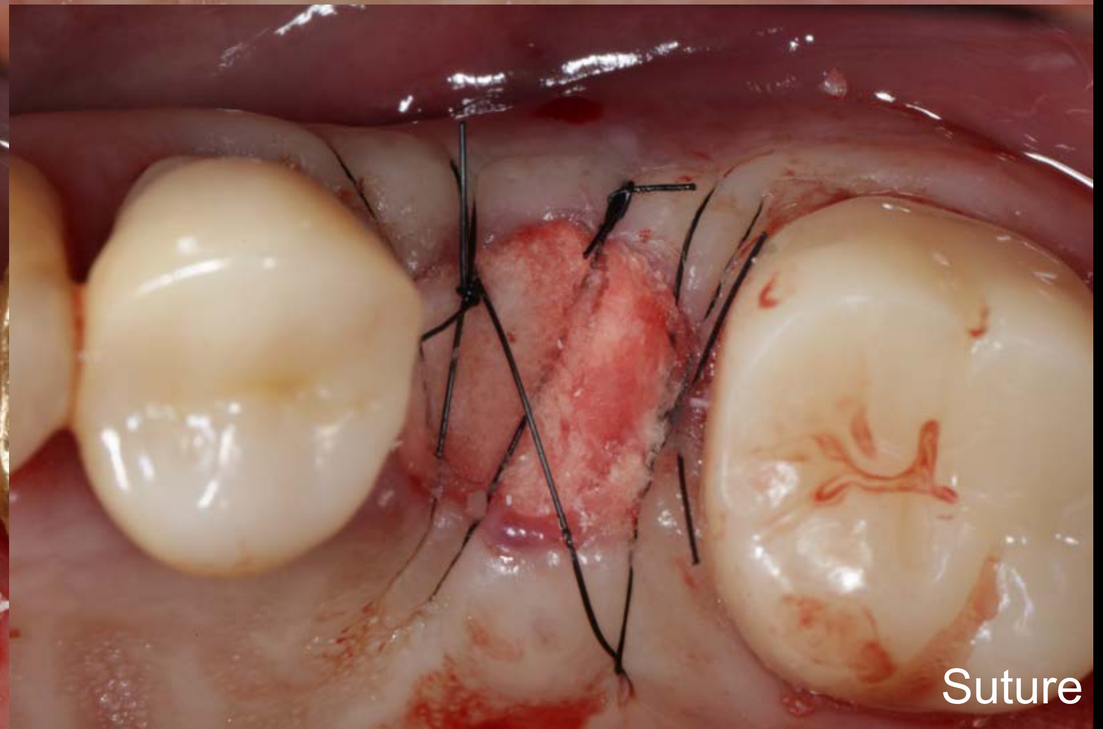
Pre-op (2024-10-30)

Surgery (2024-10-30)



Collagen Graft x1D

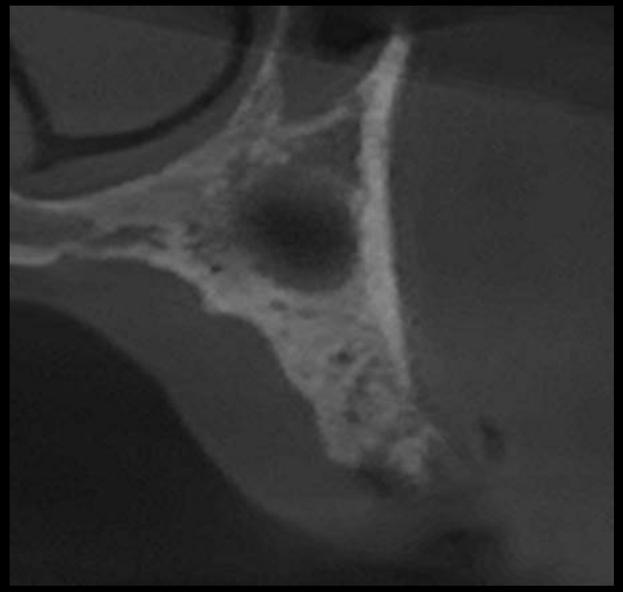
OSTEON™ Xeno Collagen



Suture

Healing : 1 week (2024-11-06)

Pre-op CT (2025-06-25)



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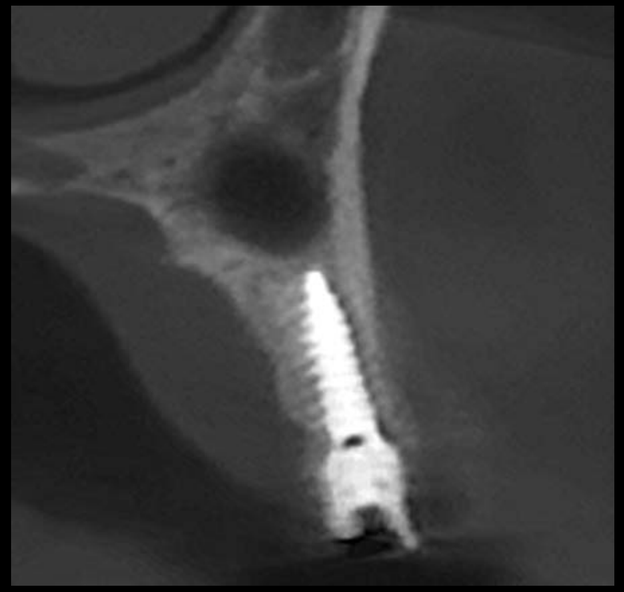
Post-op CT (2025-06-25)



#25

Pre-op : 2nd Surgery (2025-06-25)

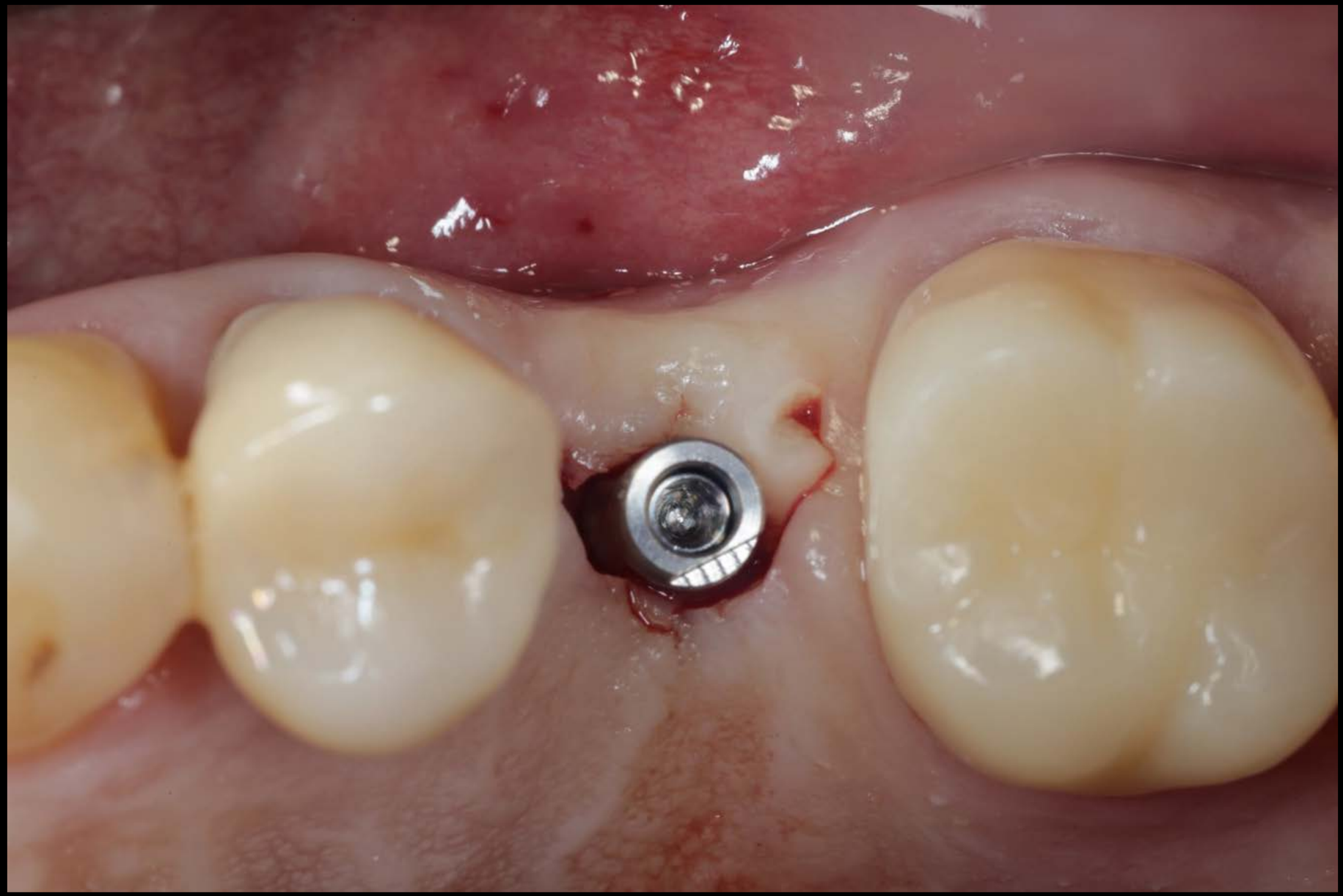
2nd Surgery (2025-06-25)

Incision

Parallel pin

bright TL (Ø3.0 X 9.0)

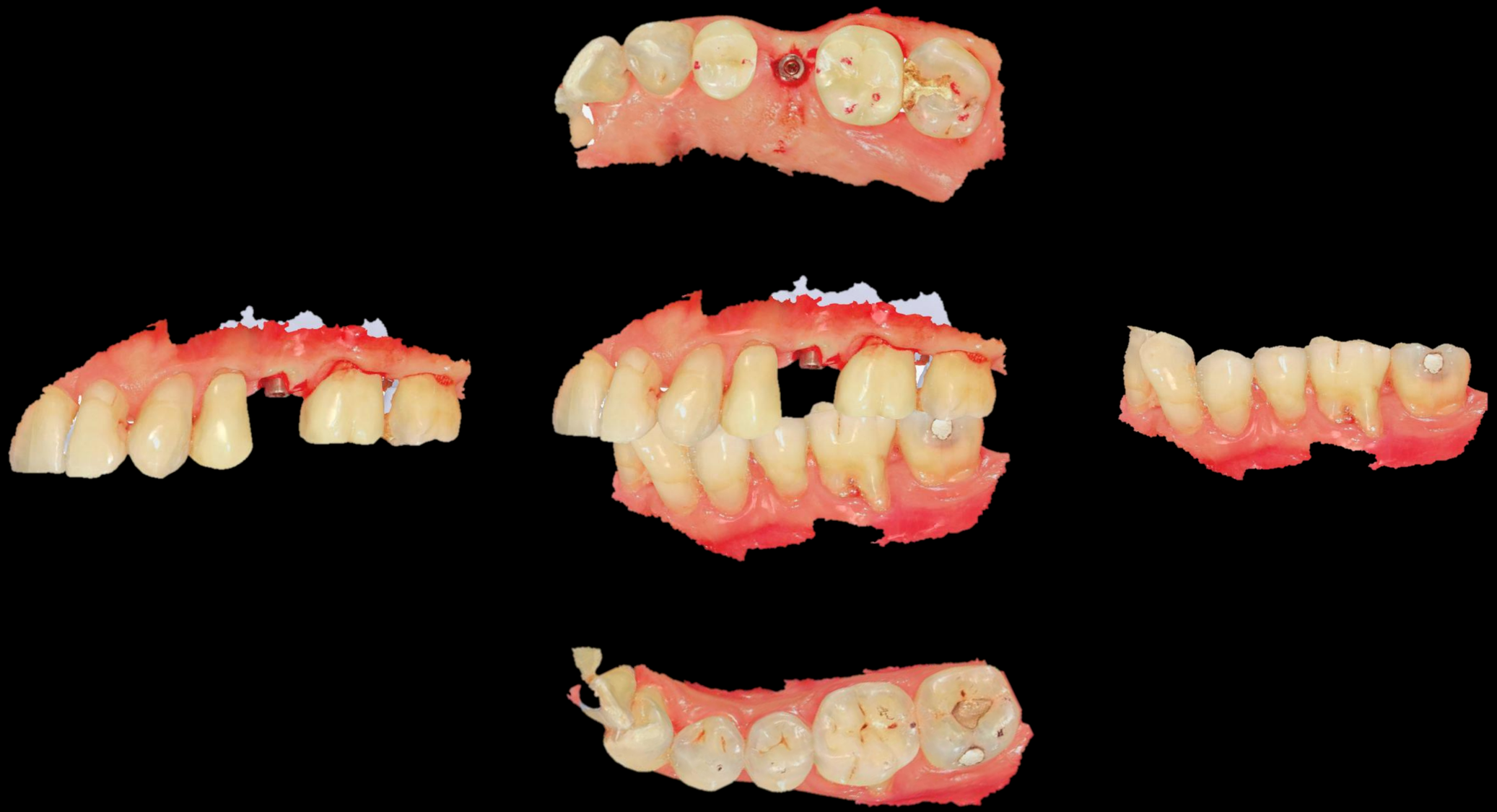
Post-op (2025-06-25)



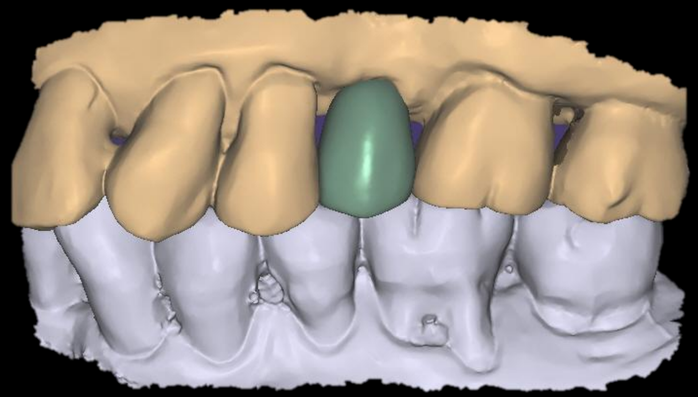
Pre-op (2025-06-25)

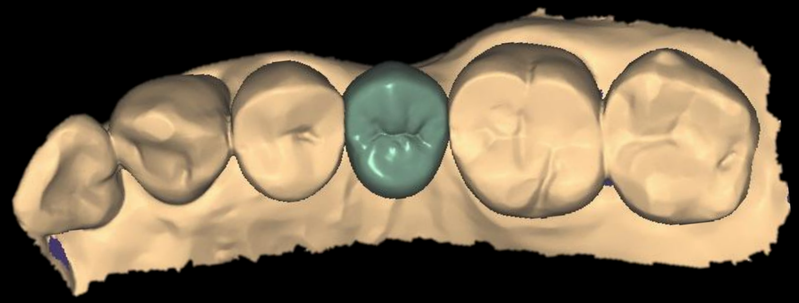
Post-op (2025-06-25)

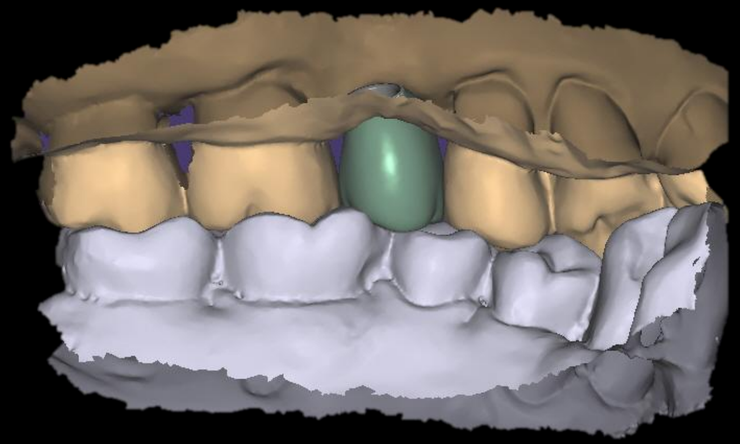
Intra Oral Scan

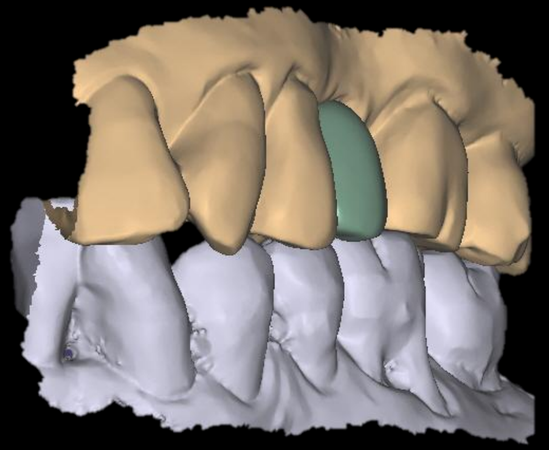


CAD (Temporary)





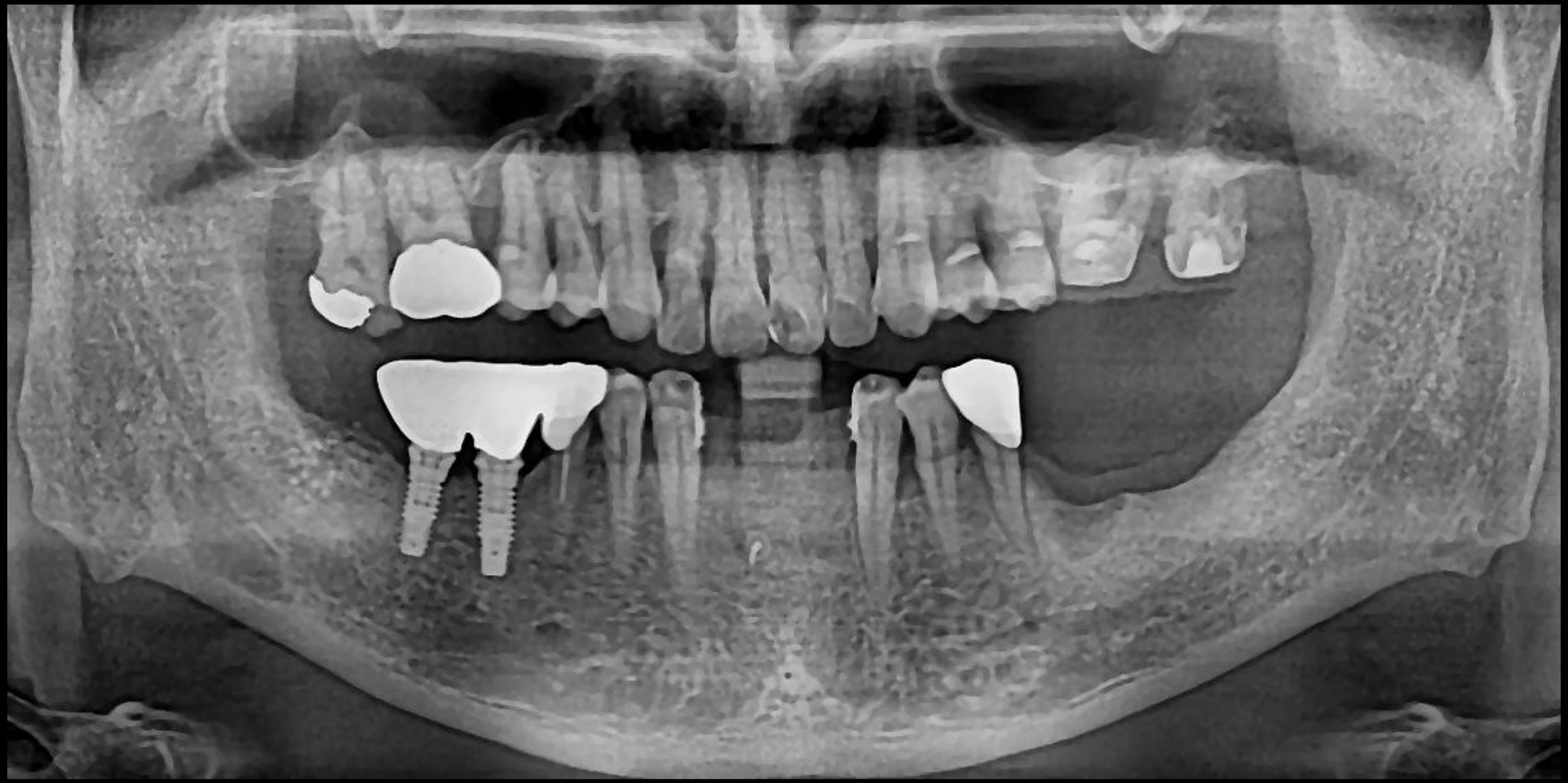




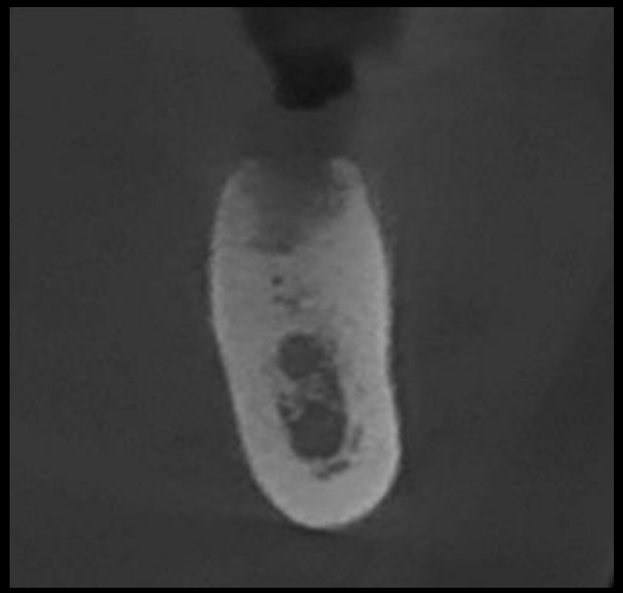
Provisional restoration (2025-07-16)

Dentium
DeRoyal
STANDARD TIP
TMJ Palpation
** 153p TMJ PDRN VOD 1

Pre-op (2025-07-24)



Pre-op CT (2025-07-24)



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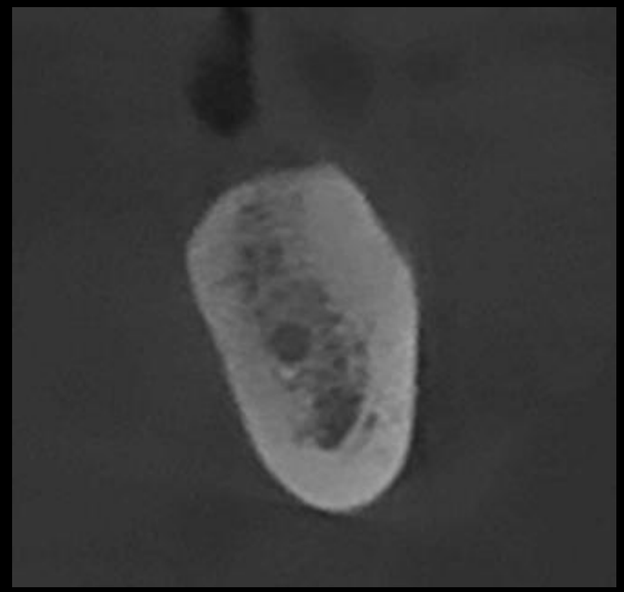

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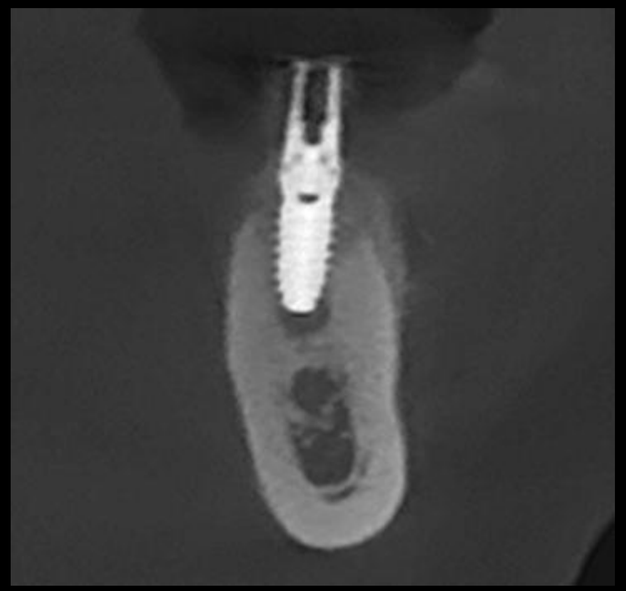
Post-op CT (2025-07-24)



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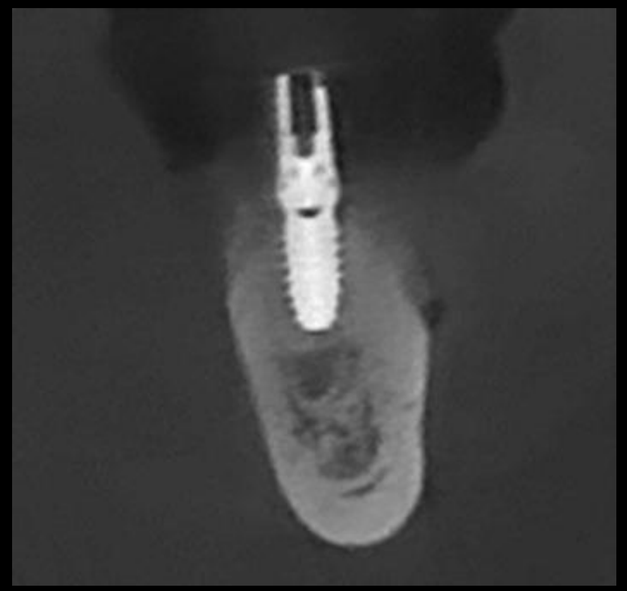
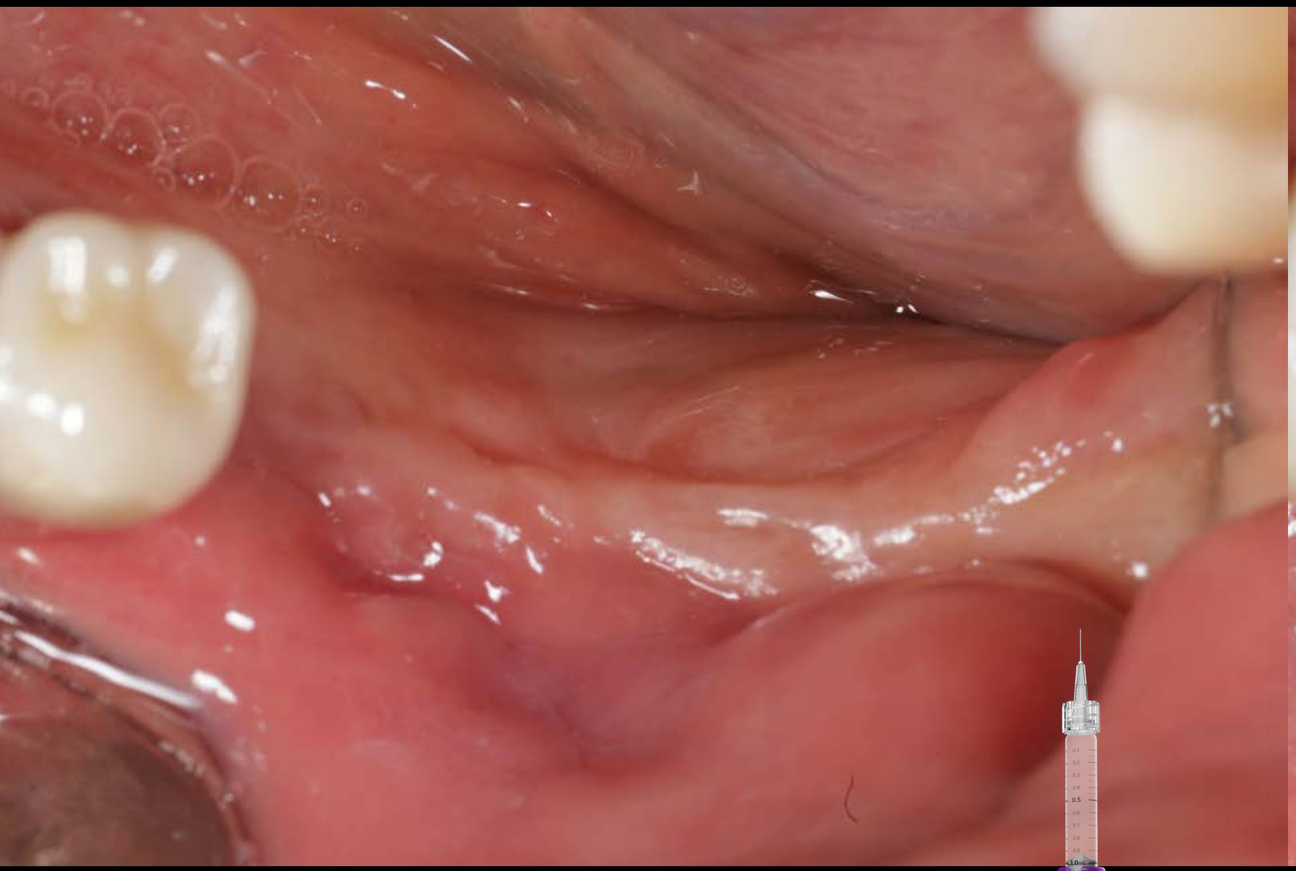


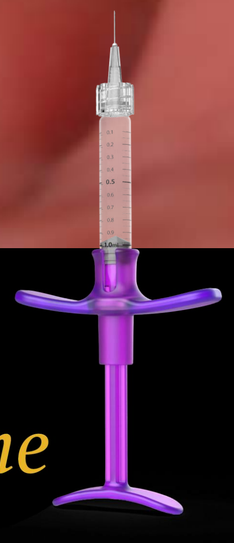
#37

Post-op (2025-07-24)

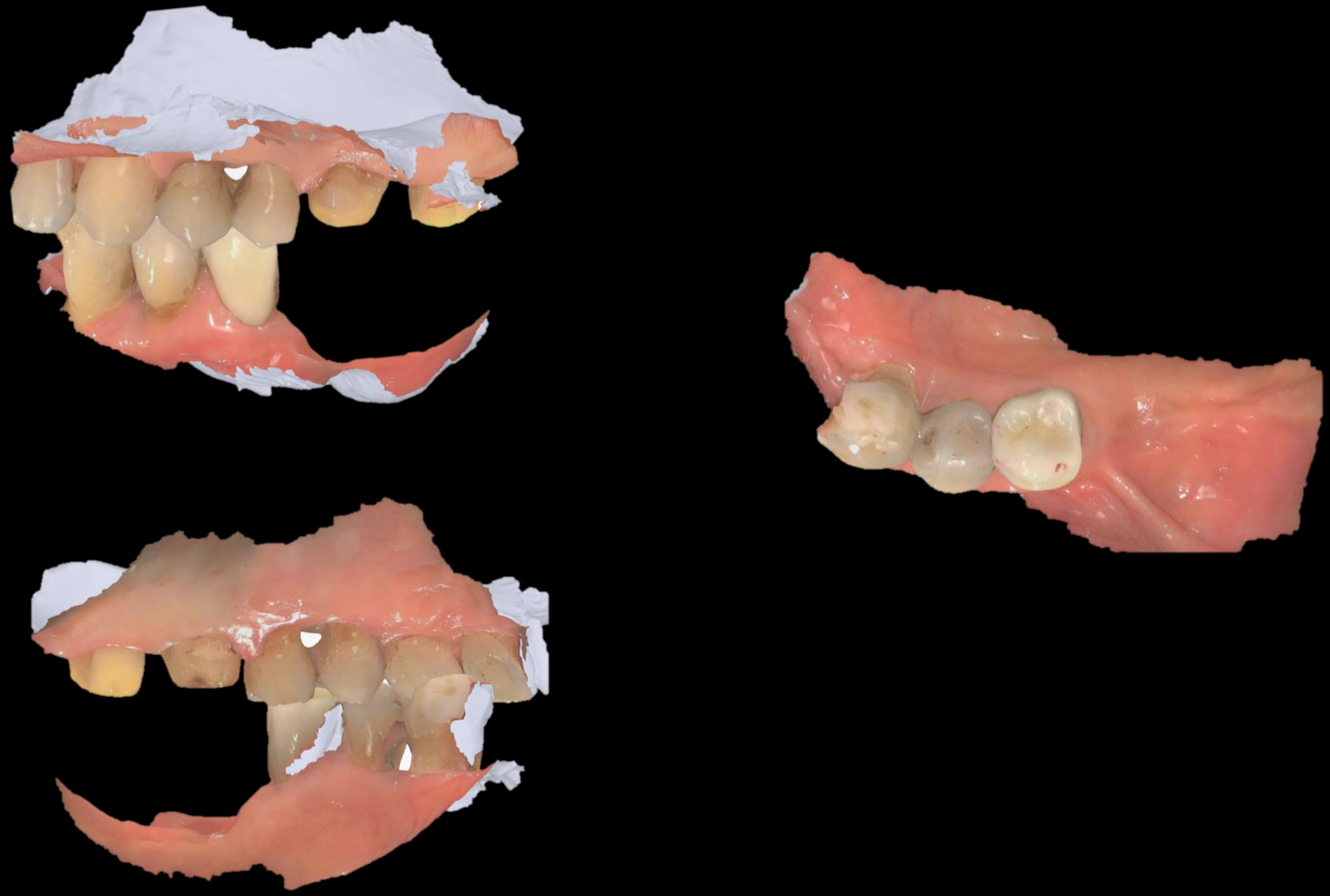
Before tissue expand (2025-06-04)

After tissue expand (2025-06-04)



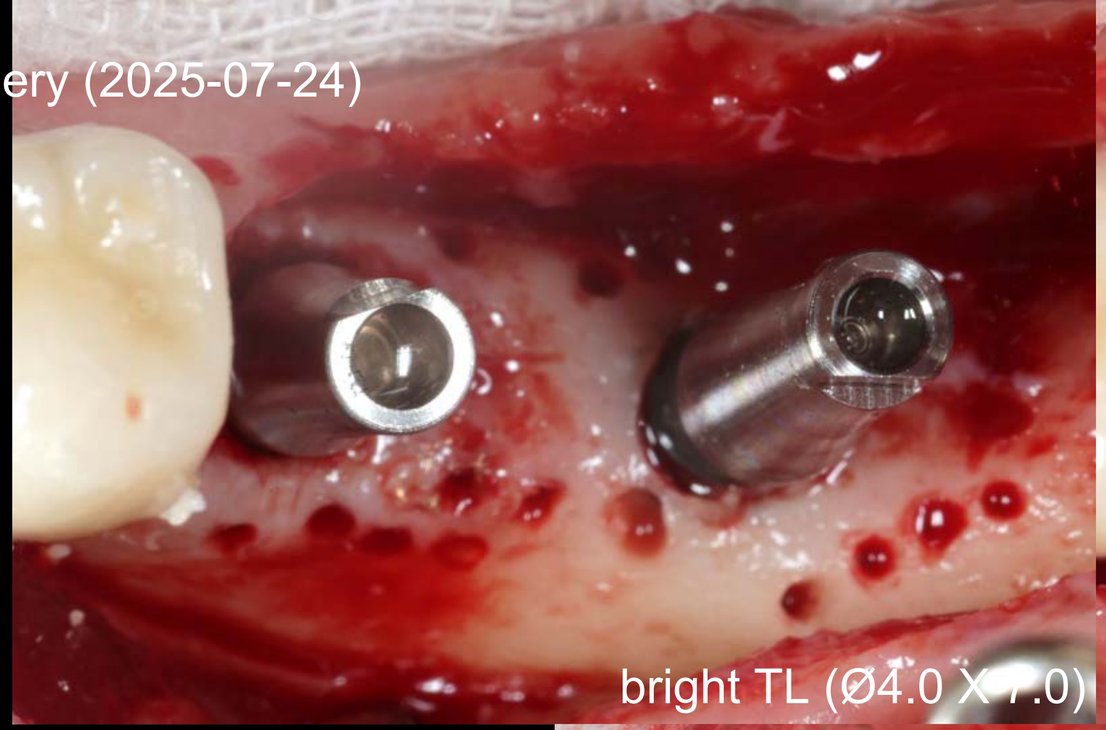


Intra Oral Scan



Pre-op (2025-07-24)

Surgery (2025-07-24)

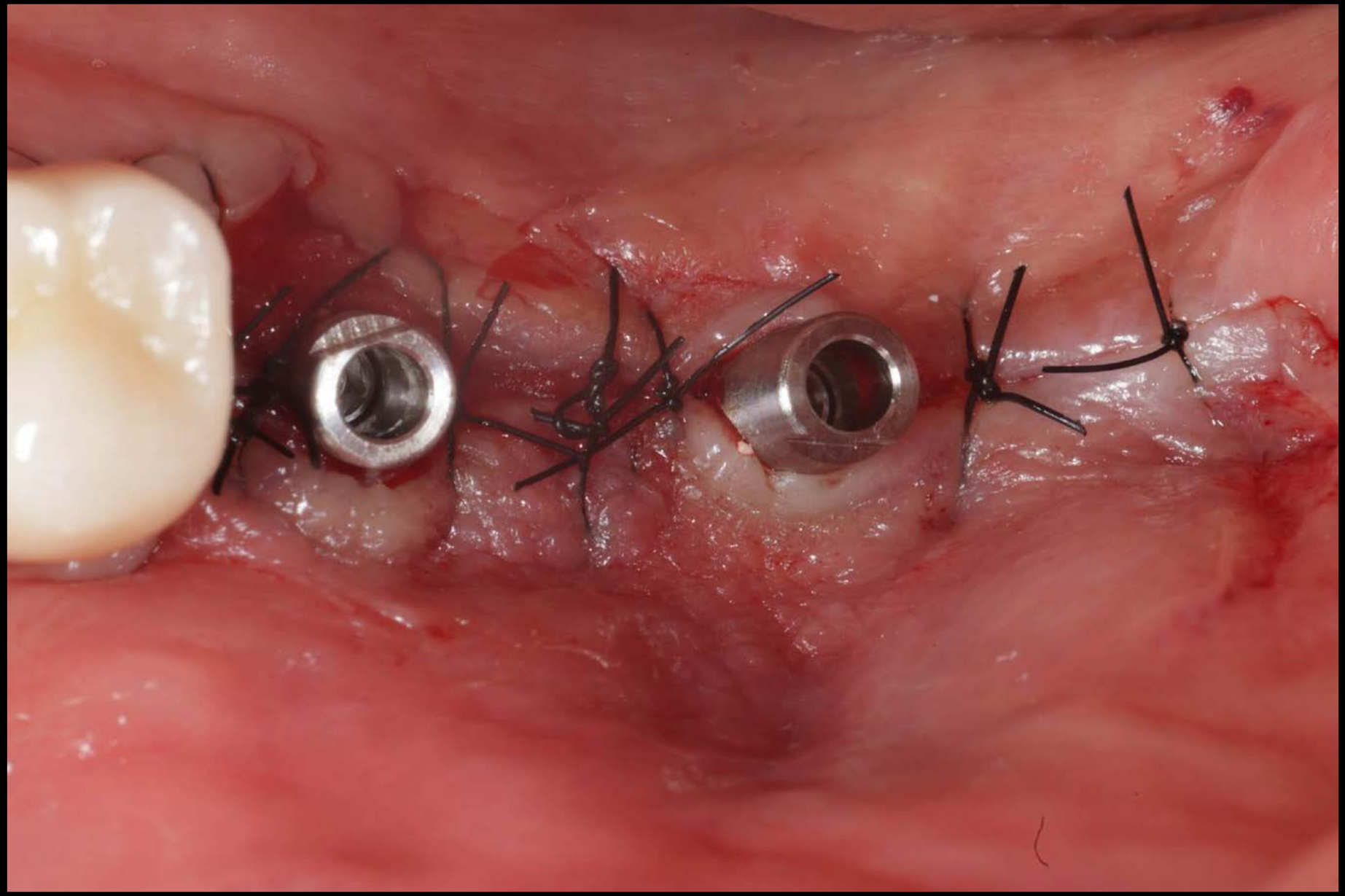


bright TL (Ø4.0 X 7.0)

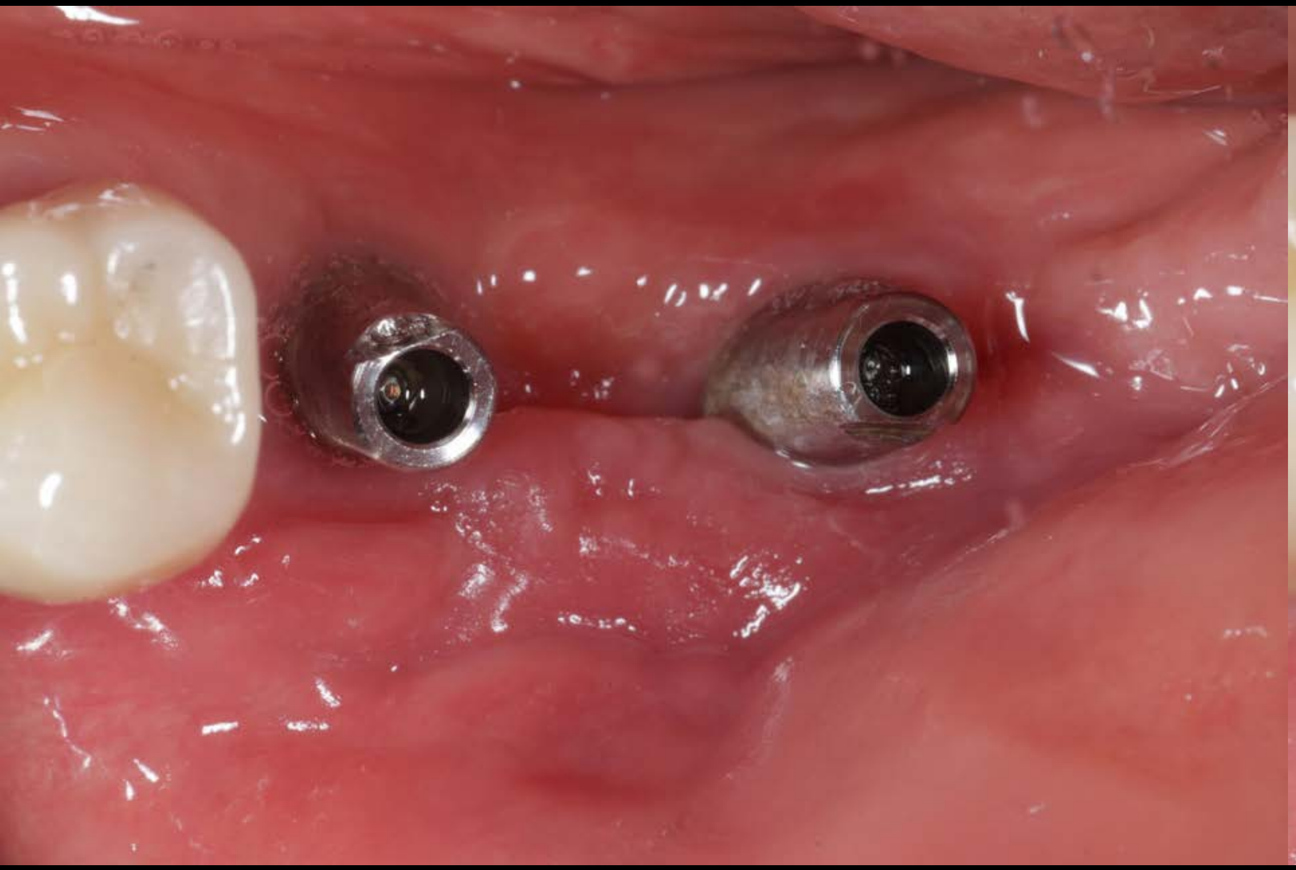
OSTEON™ Xeno Collagen

Collagen Graft x1D
Collagen Graft x2D

Post-op (2025-07-24)



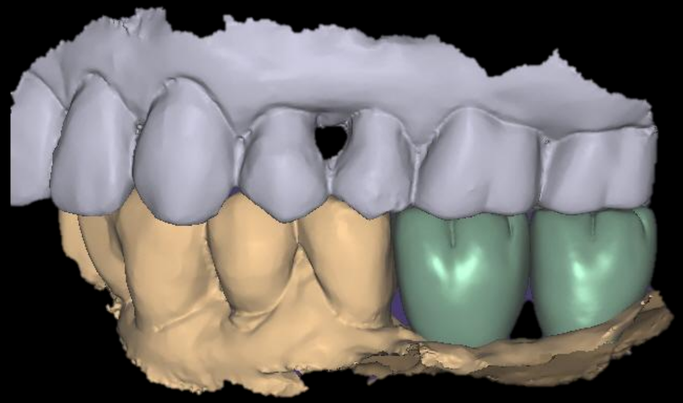
Healing : 1 month (2025-09-09)

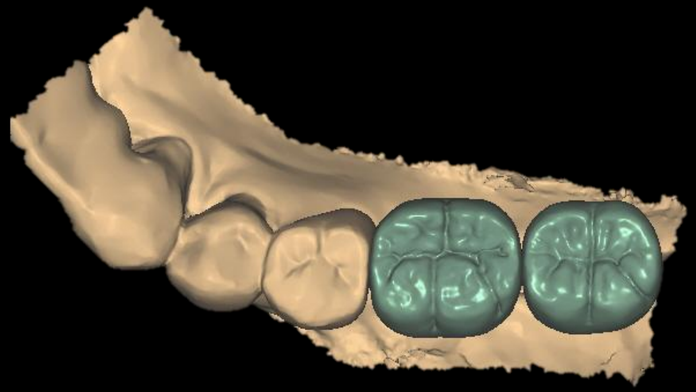


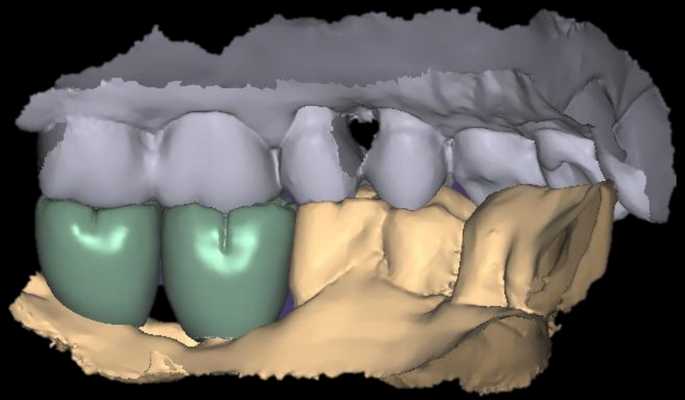
Healing : 2 months (2025-09-23)

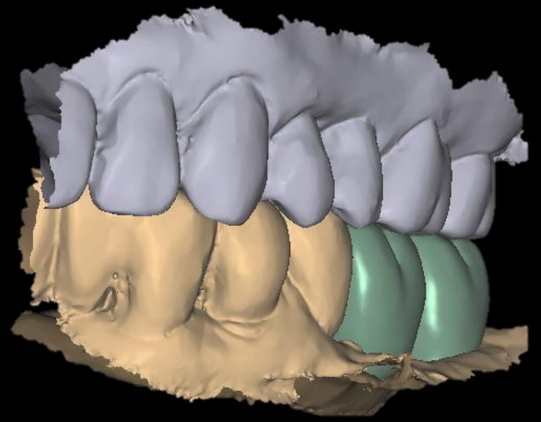
Intra Oral Scan

CAD (Temporary)

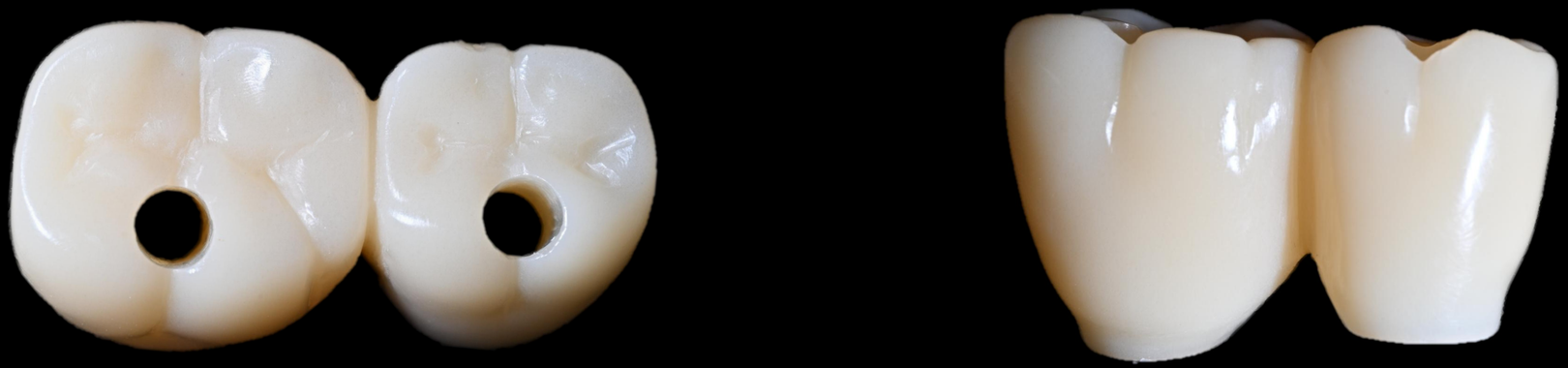








Temporary crown



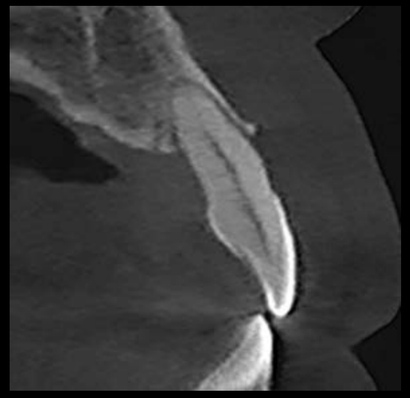
Provisional restoration (2025-09-23)

Healing : 3 months (2025-11-04)

Pre-op (2025-08-08)

Post-op (2025-08-08)

Pre-op CT (2025-08-08)



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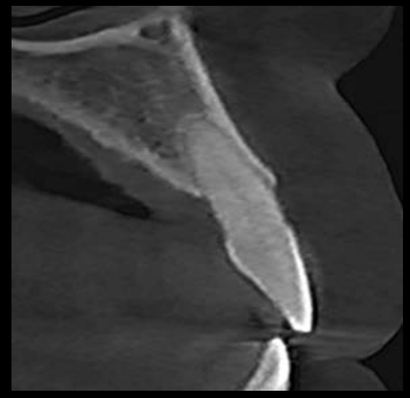

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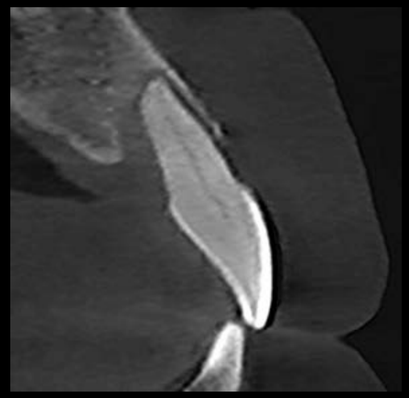
#13



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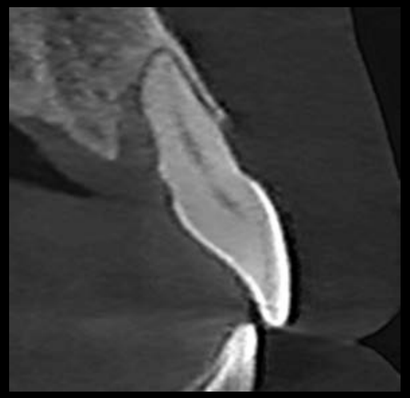

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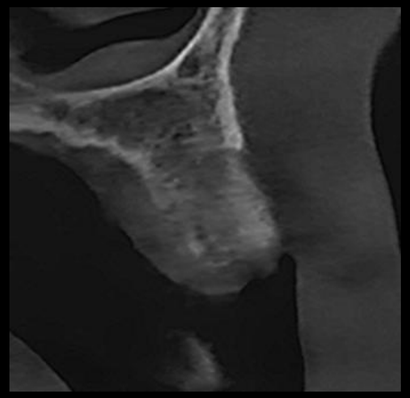
Post-op CT (2025-08-08)

#12

#22



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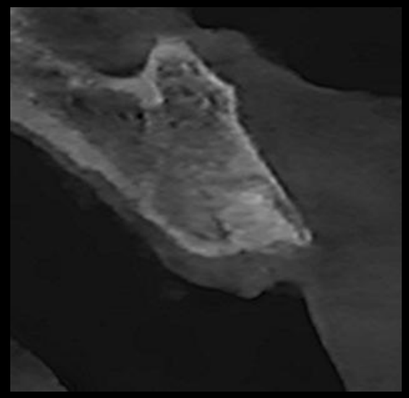

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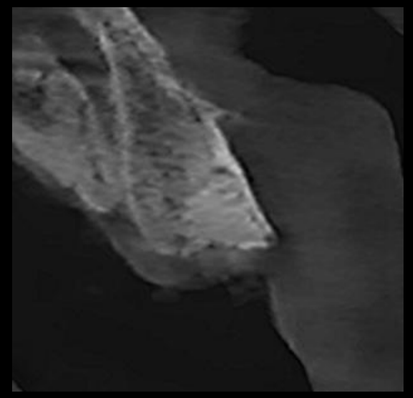

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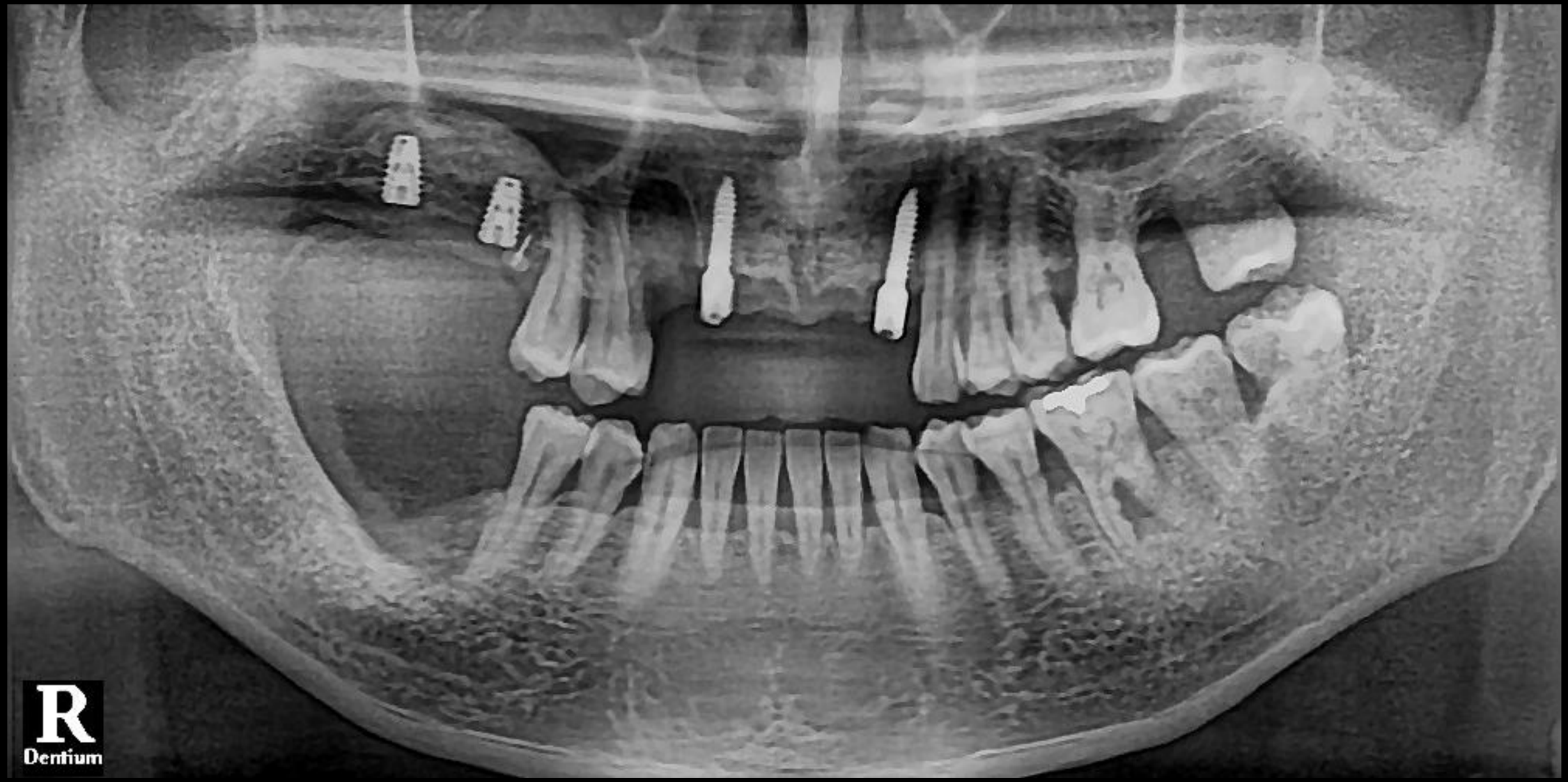
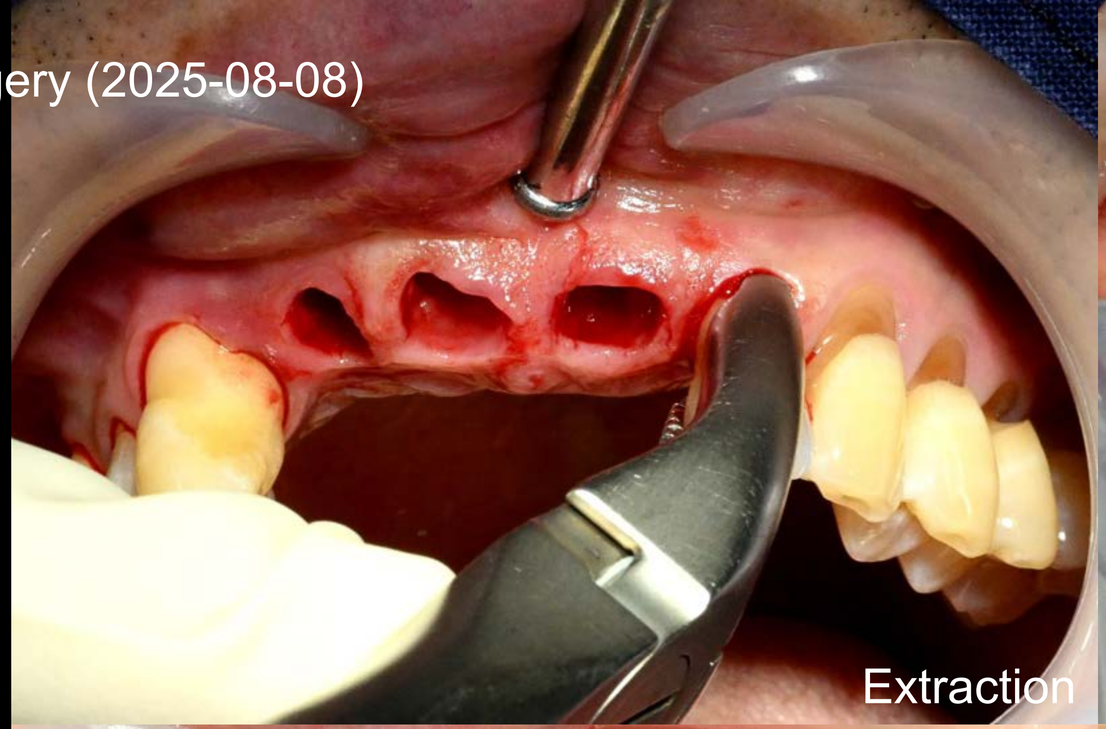
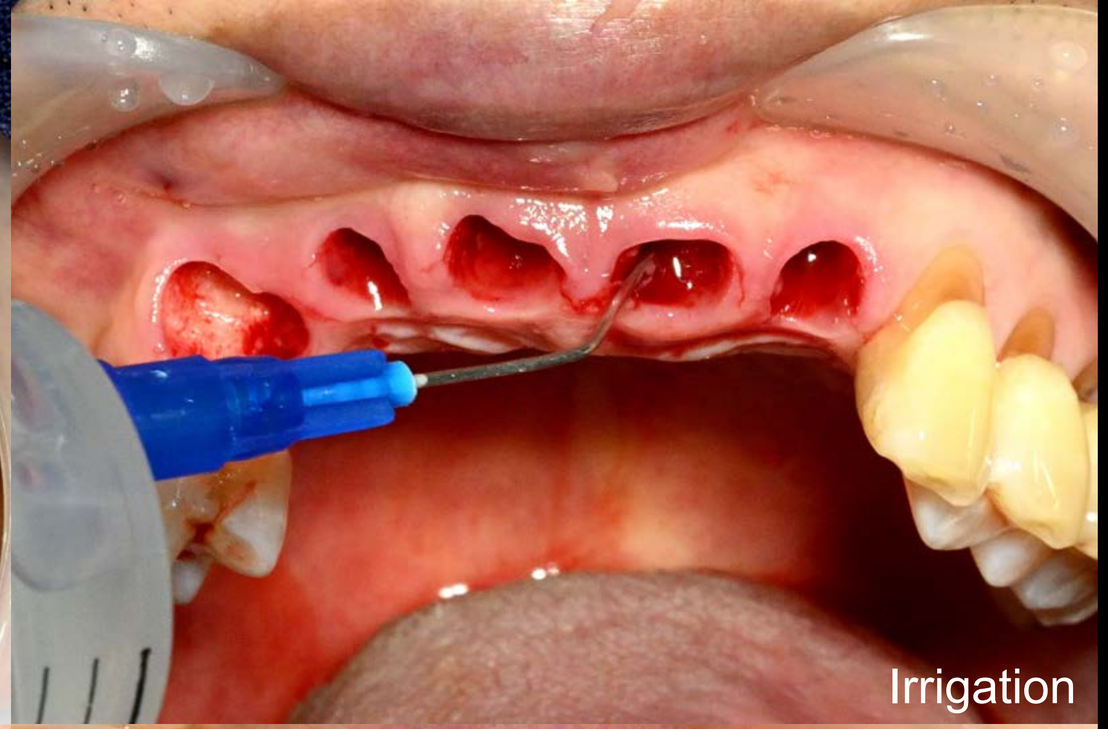
Post-op (2025-08-08)

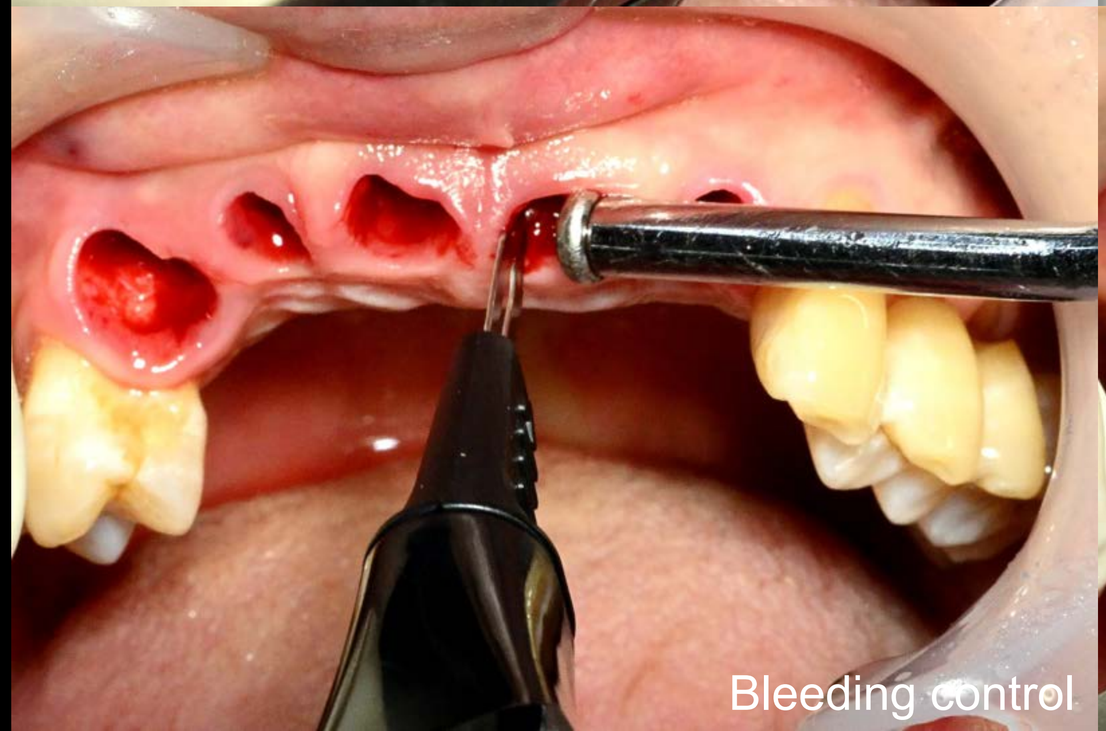


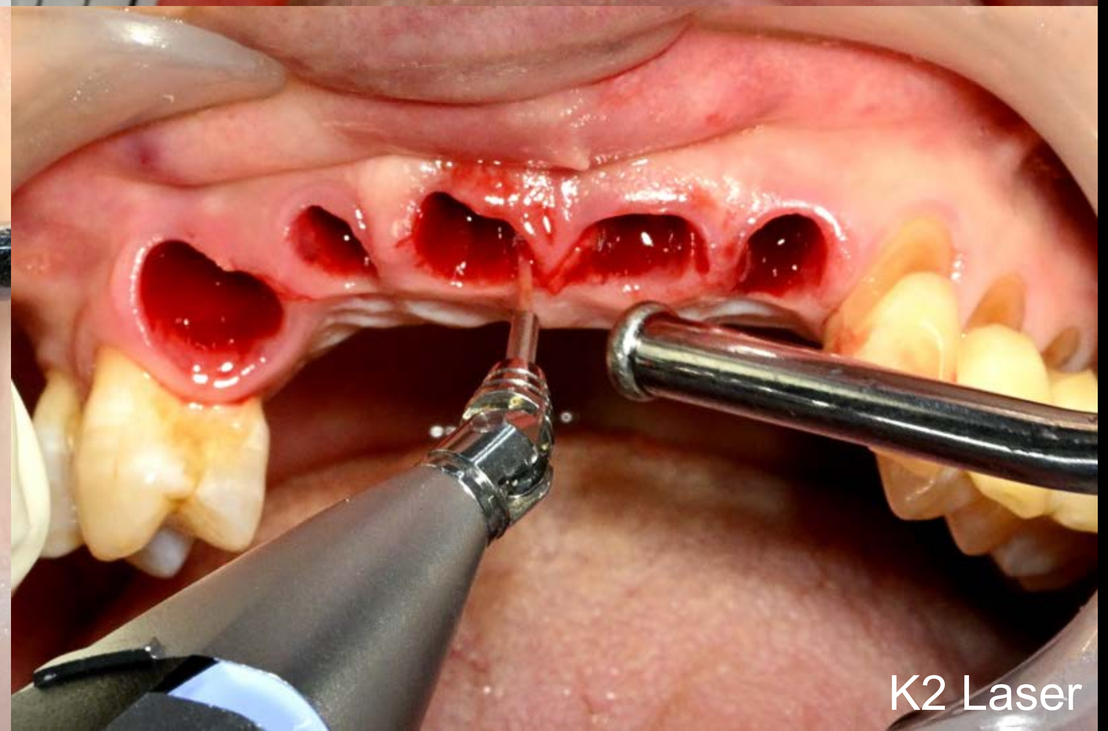
Pre-op (2025-08-08)

Surgery (2025-08-08)

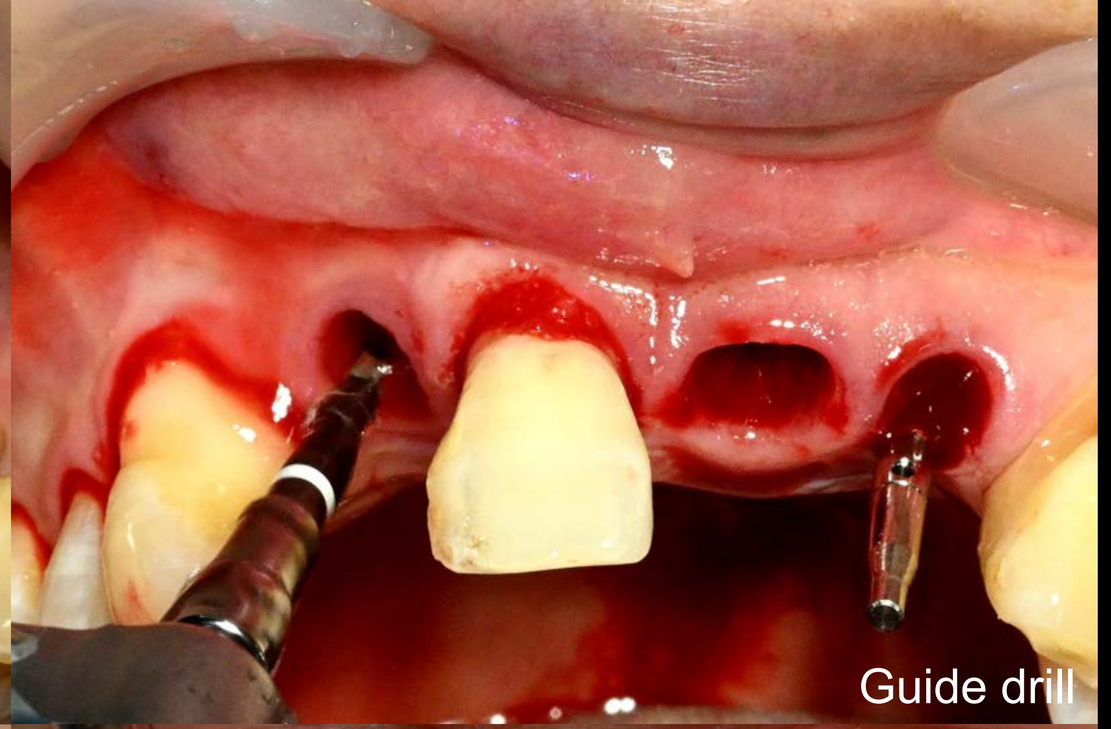

Extraction


Irrigation


Bleeding control


K2 Laser

Surgery (2025-08-08)

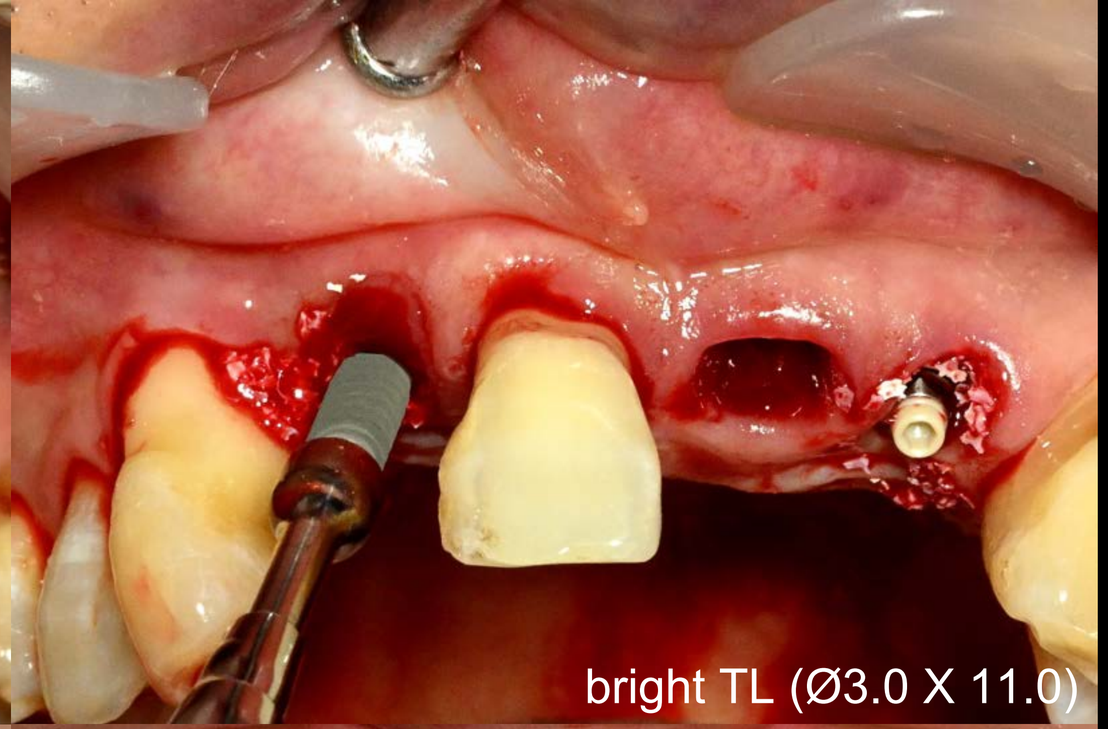


Guide drill

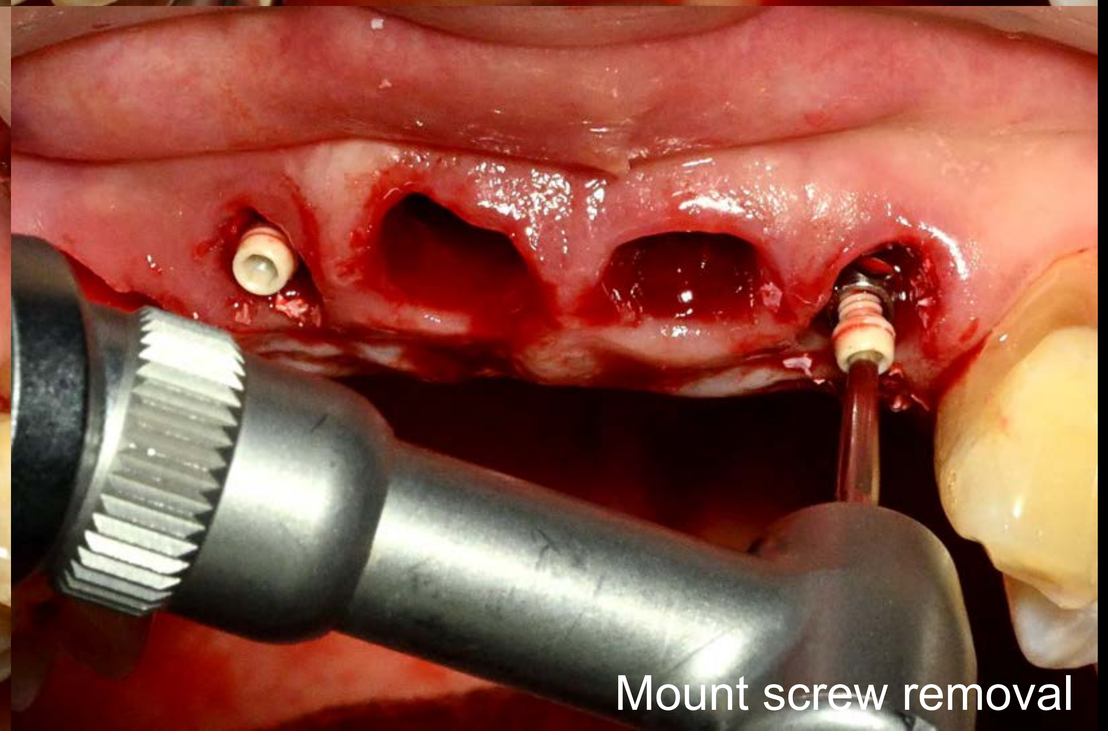
OSTEON™ Xeno

Surgery (2025-08-08)

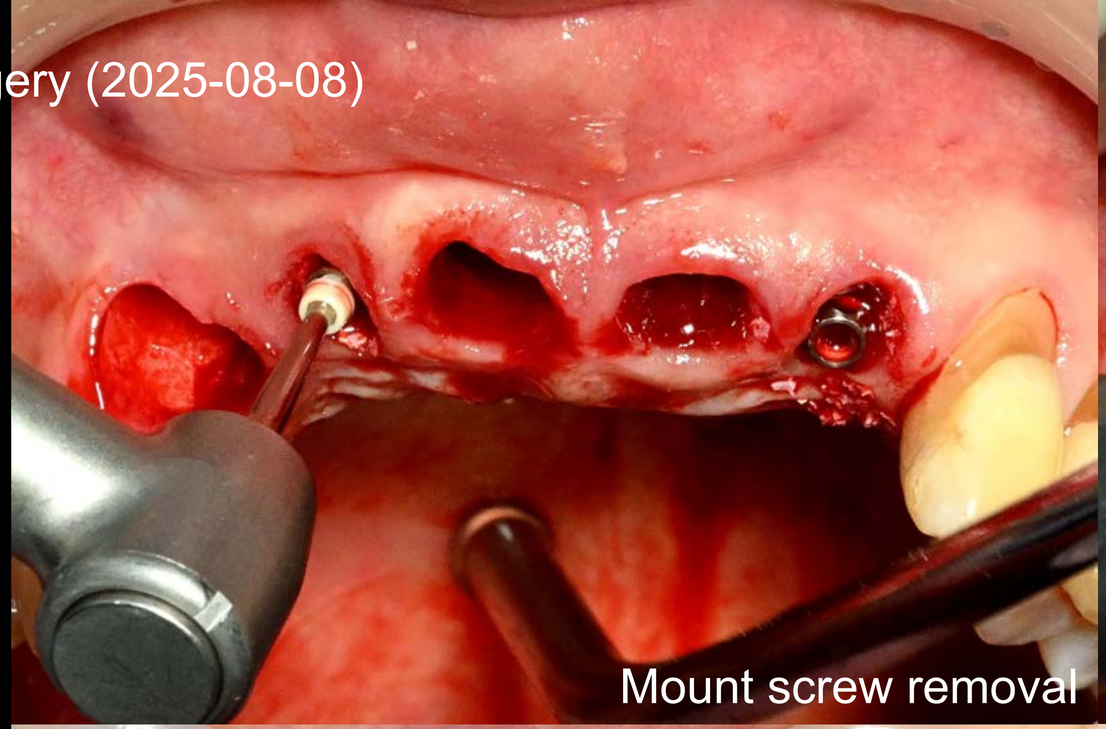
bright TL (Ø3.0 X 11.0)


bright TL (Ø3.0 X 11.0)

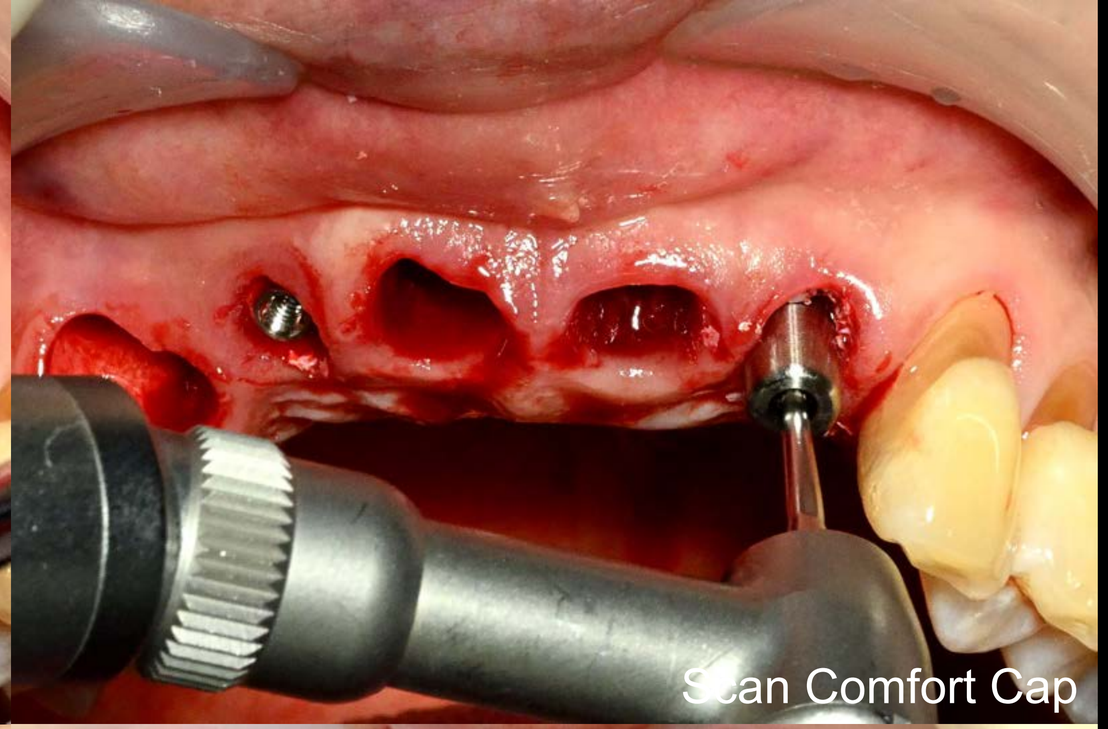
Hand ratchet


Mount screw removal

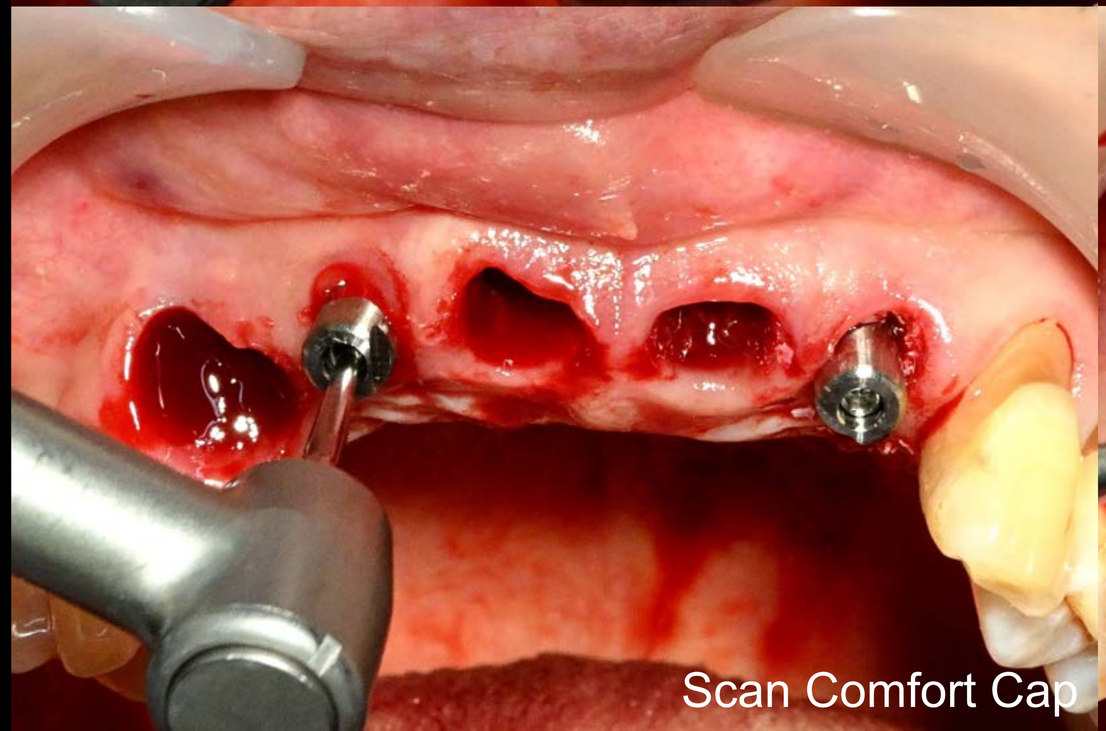
Surgery (2025-08-08)



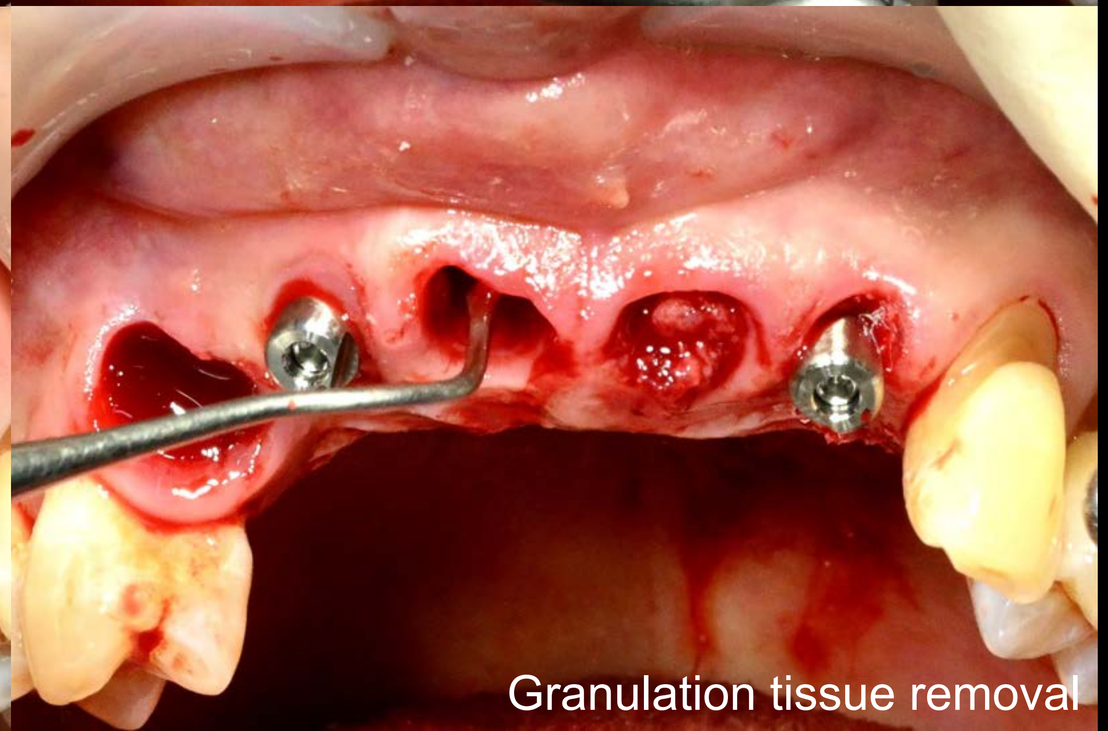
Mount screw removal



Scan Comfort Cap

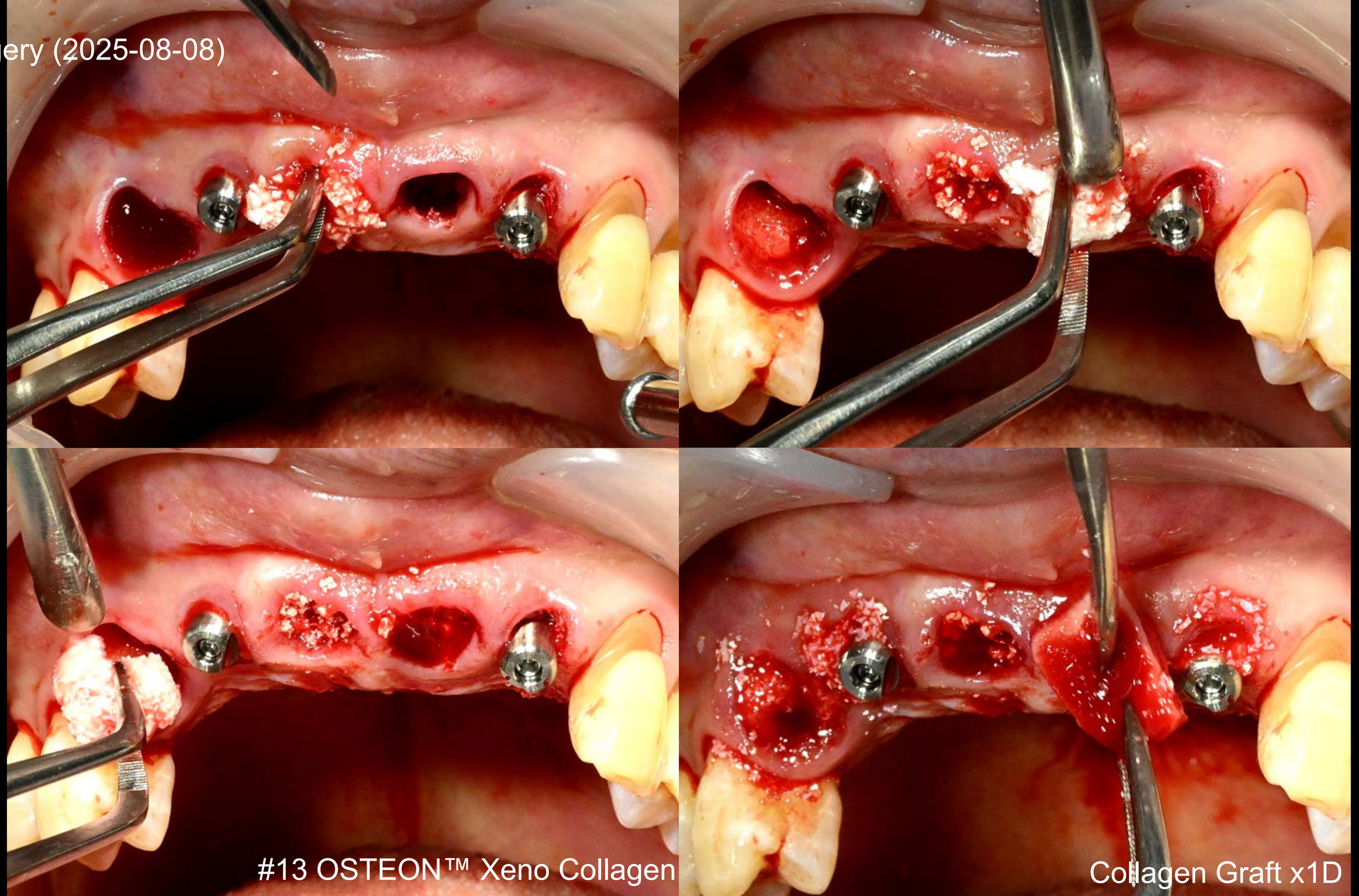


Scan Comfort Cap



Granulation tissue removal

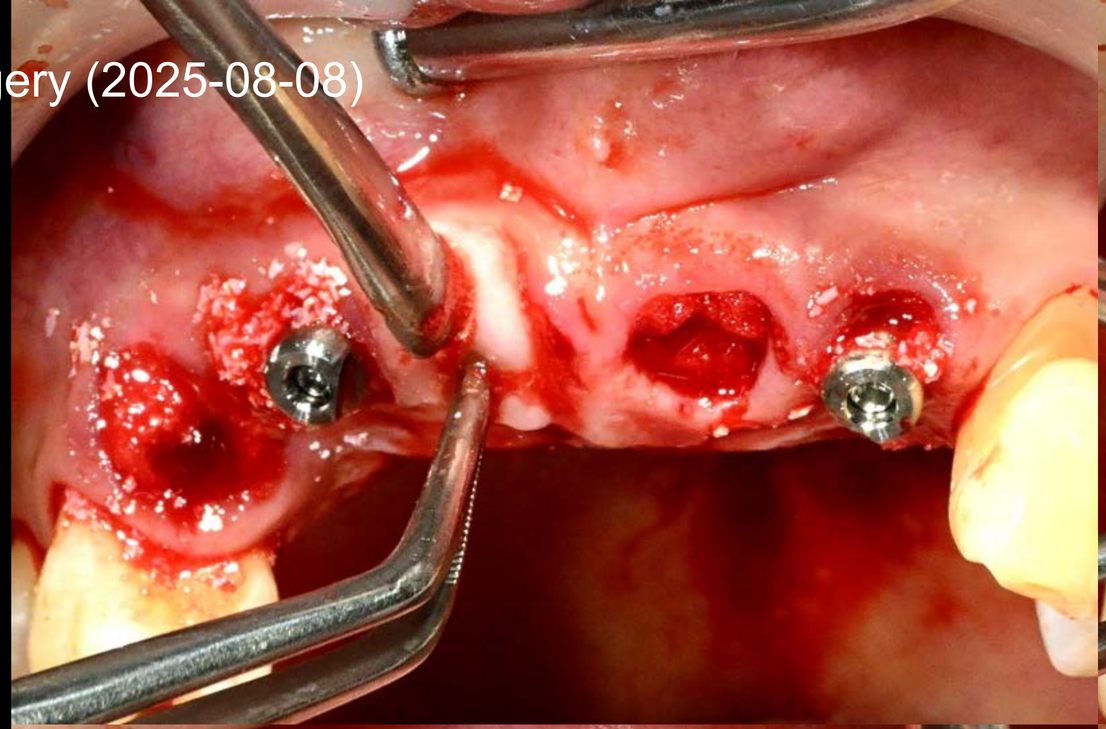
Surgery (2025-08-08)

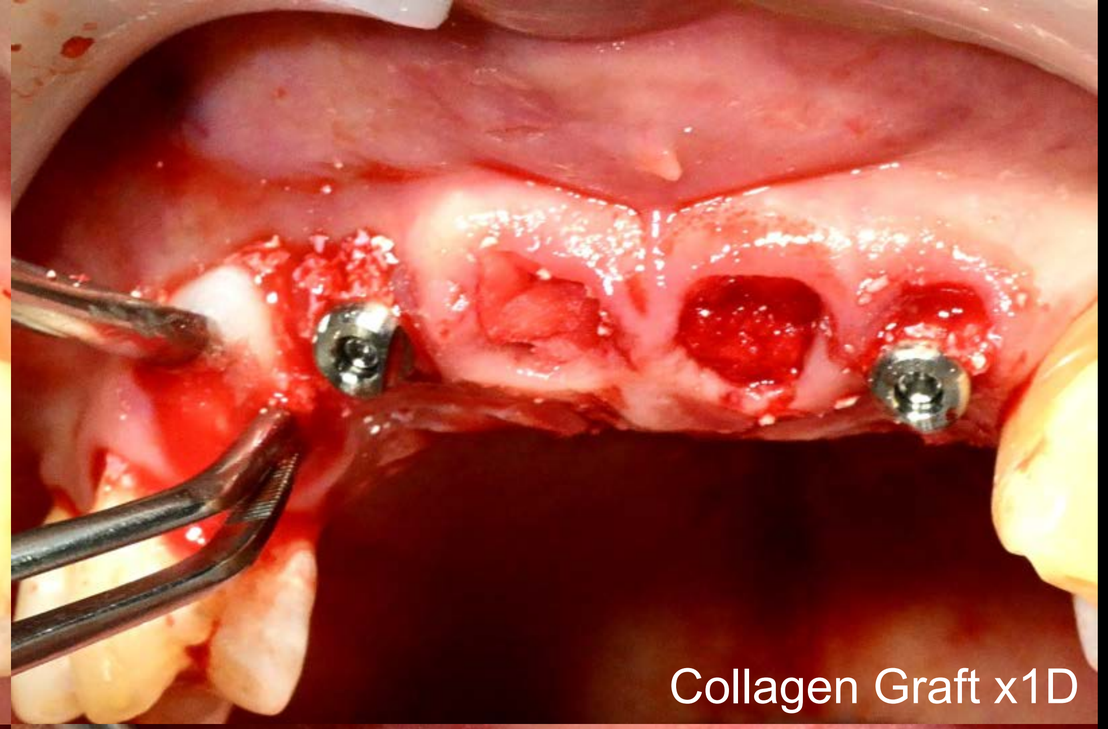


#13 OSTEON™ Xeno Collagen

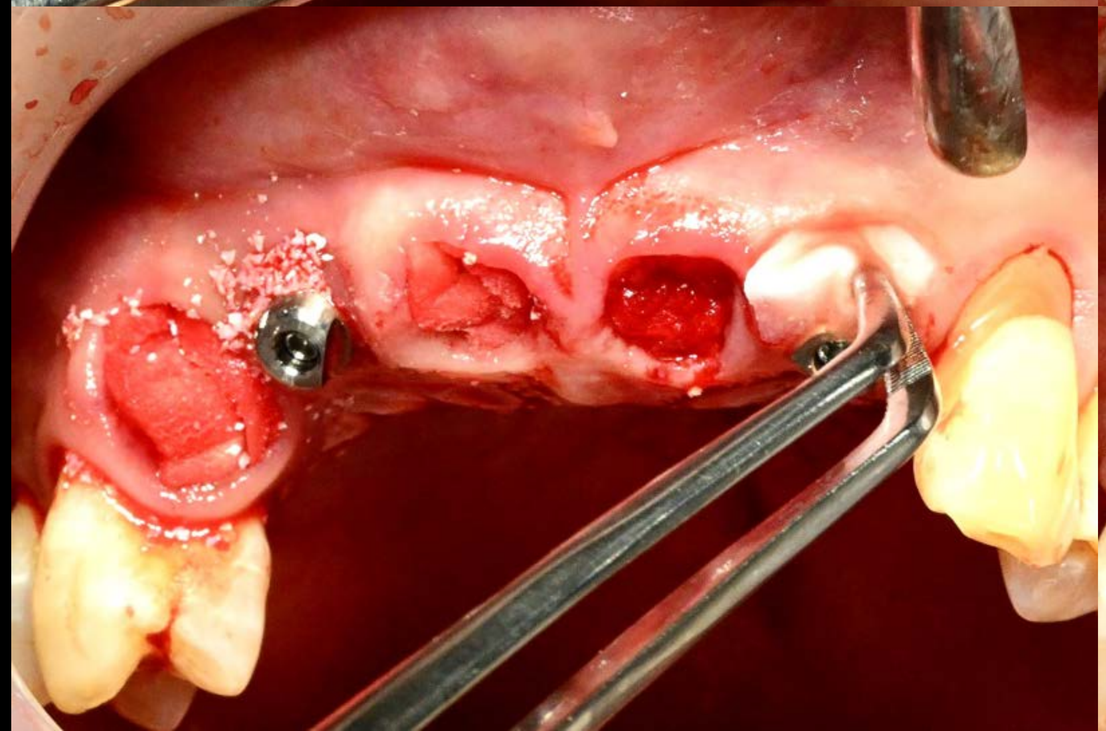
Collagen Graft x1D

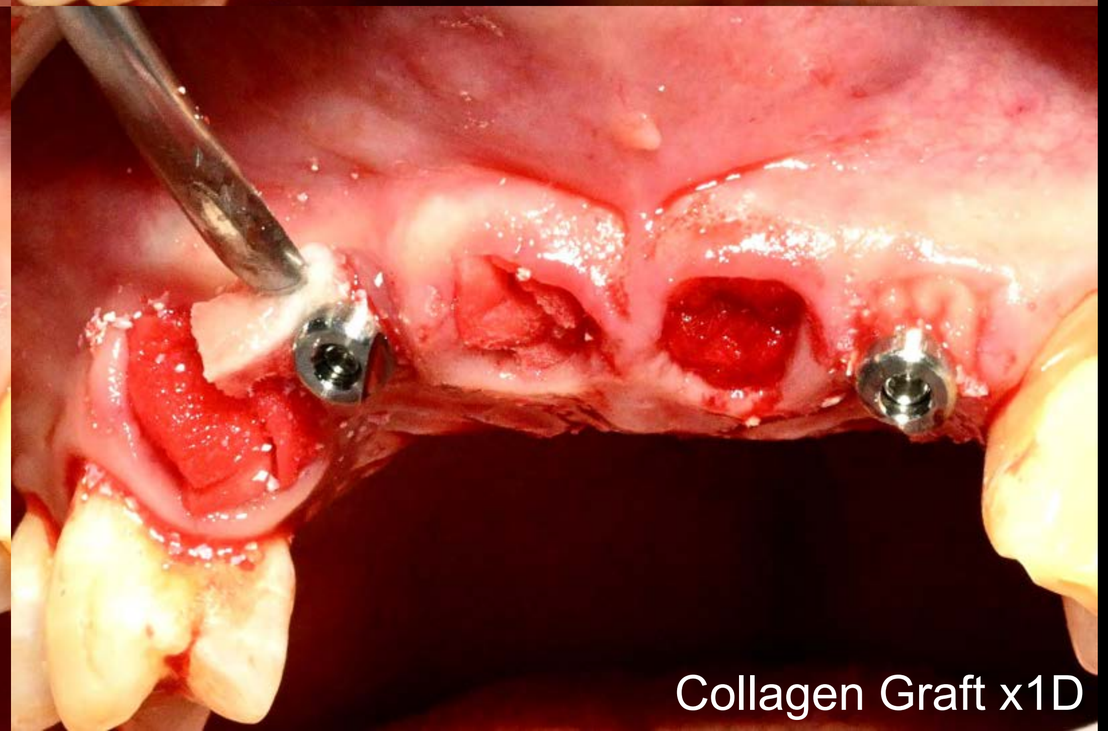
Surgery (2025-08-08)





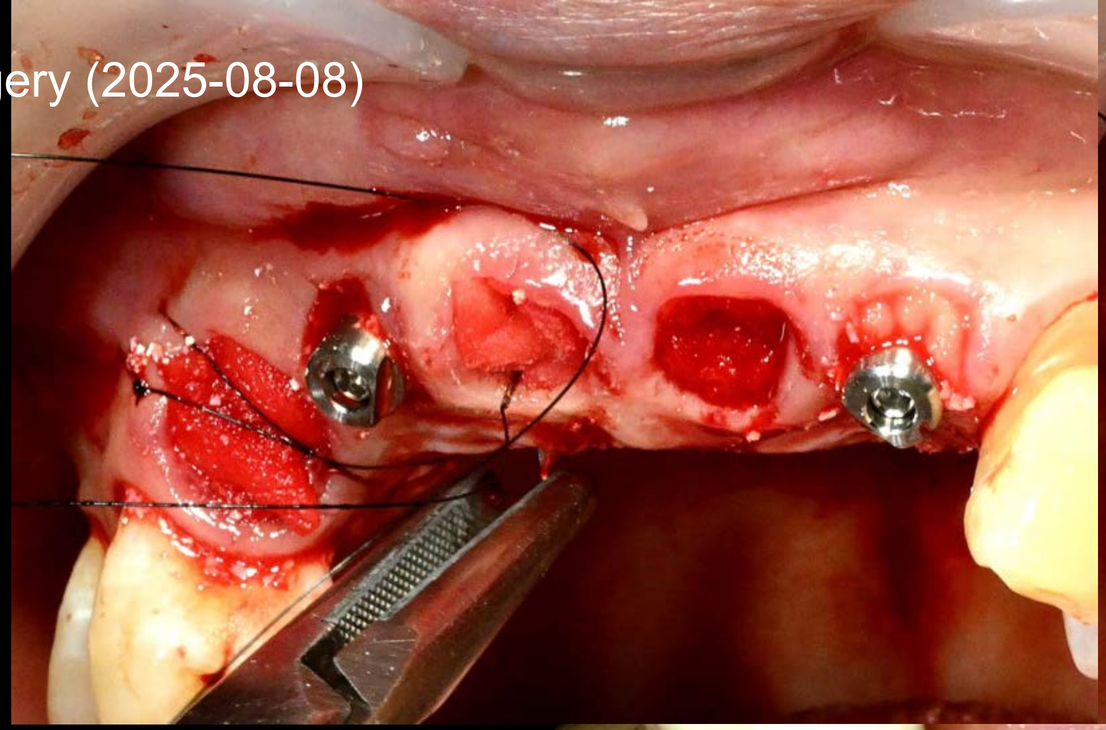
Collagen Graft x1D

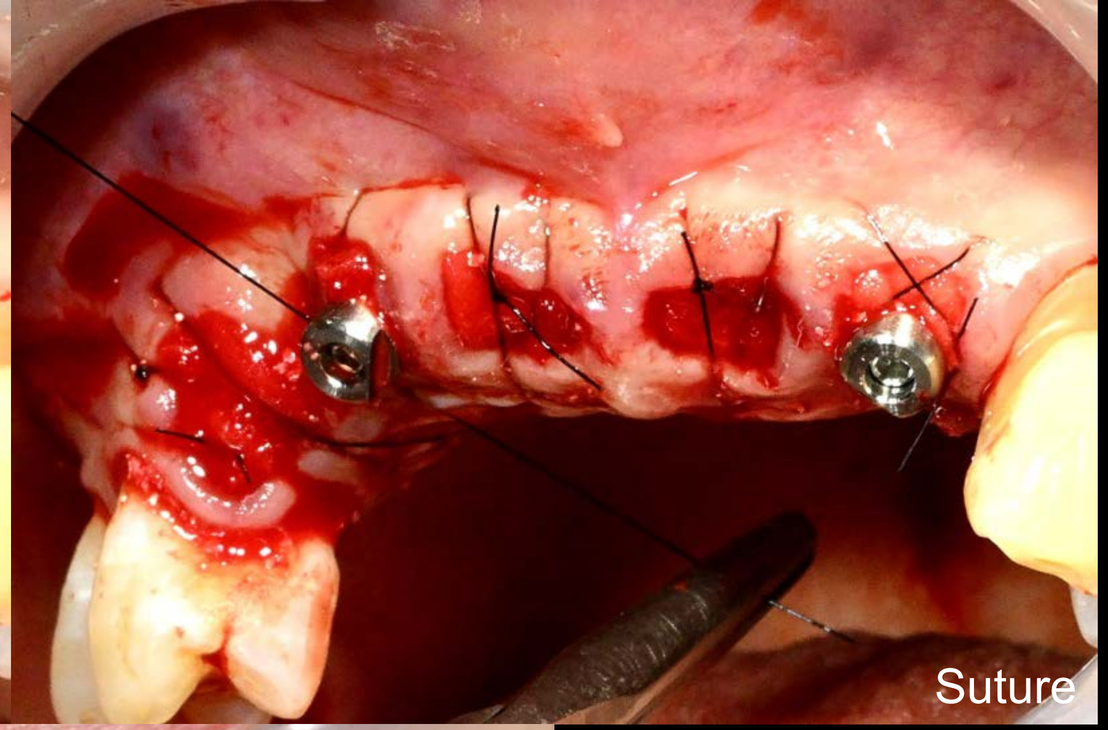




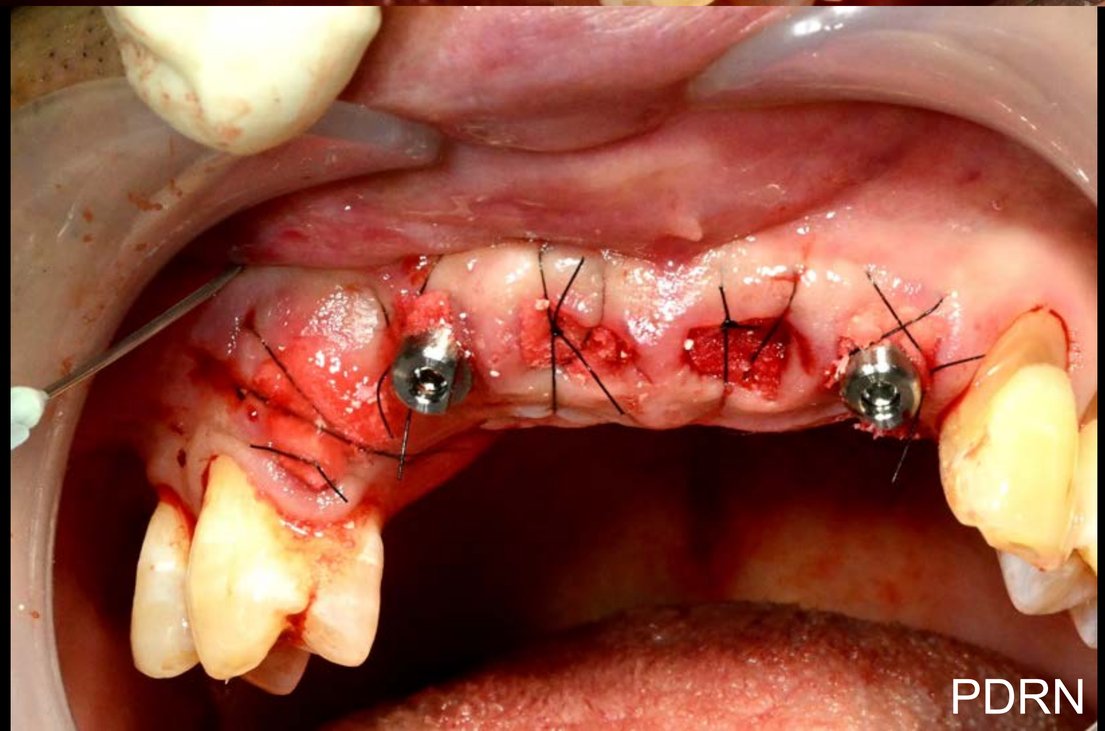
Collagen Graft x1D

Surgery (2025-08-08)



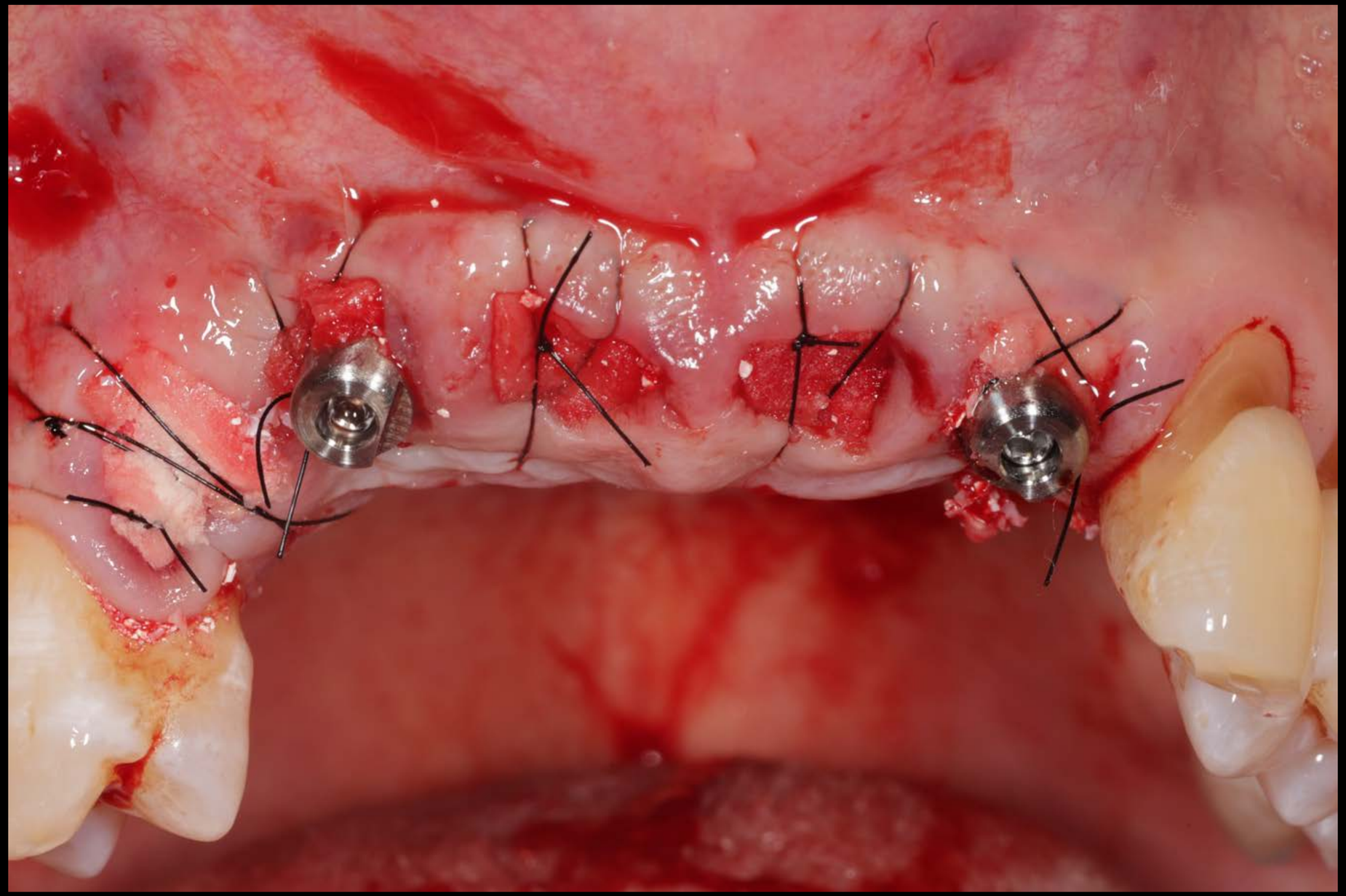


Suture

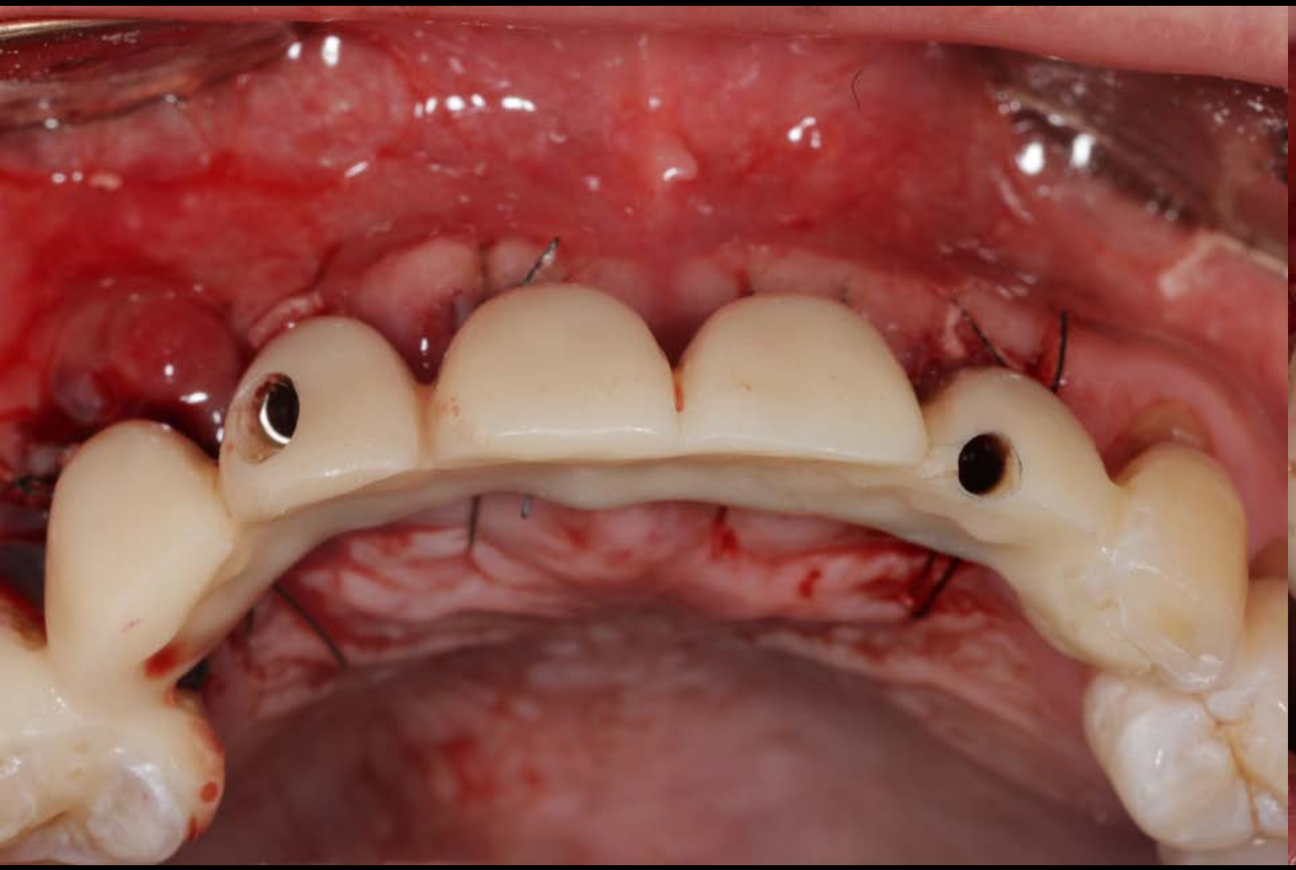


PDRN

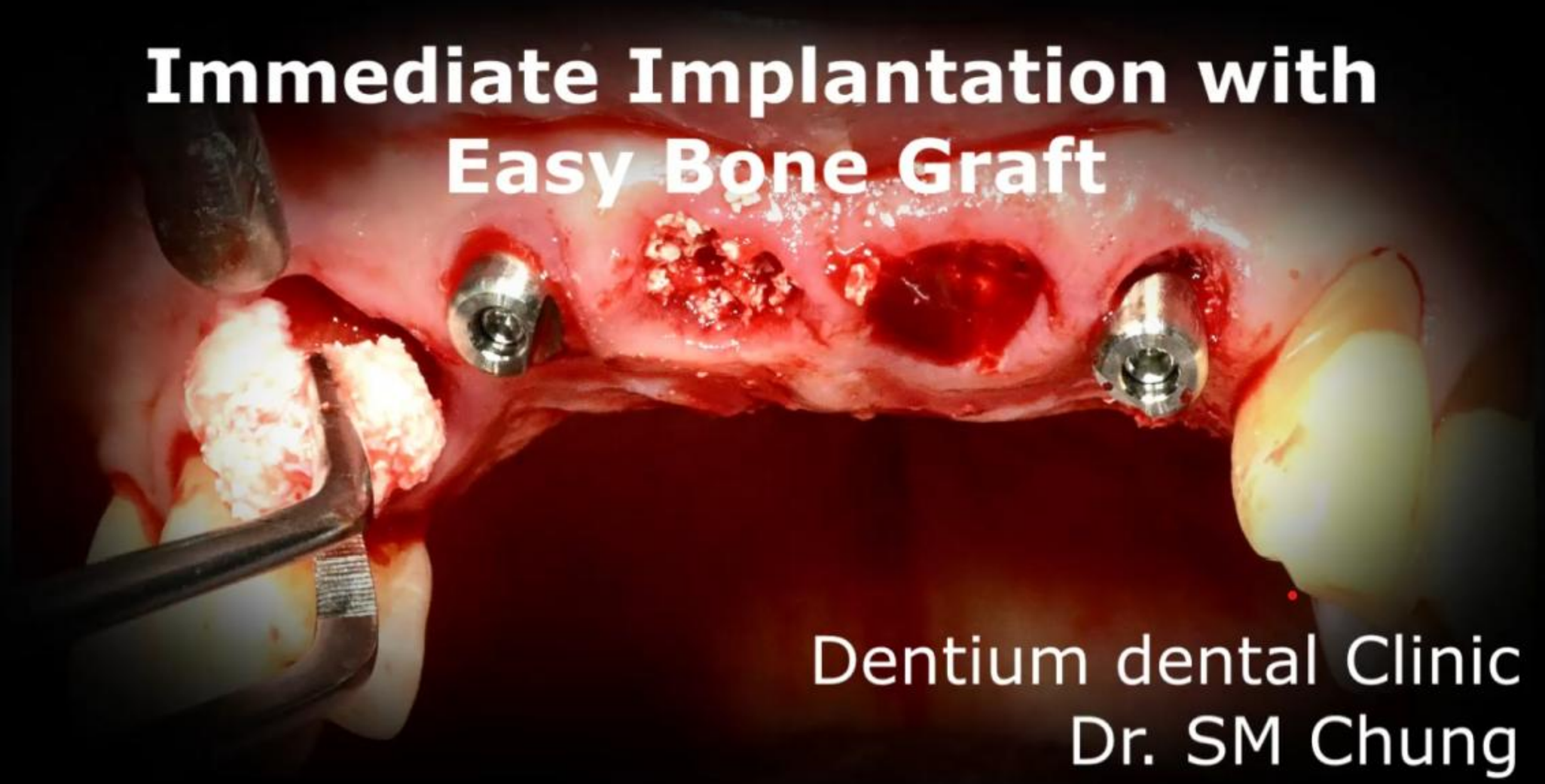
Post-op (2025-08-08)



Provisional restoration (2025-08-08)



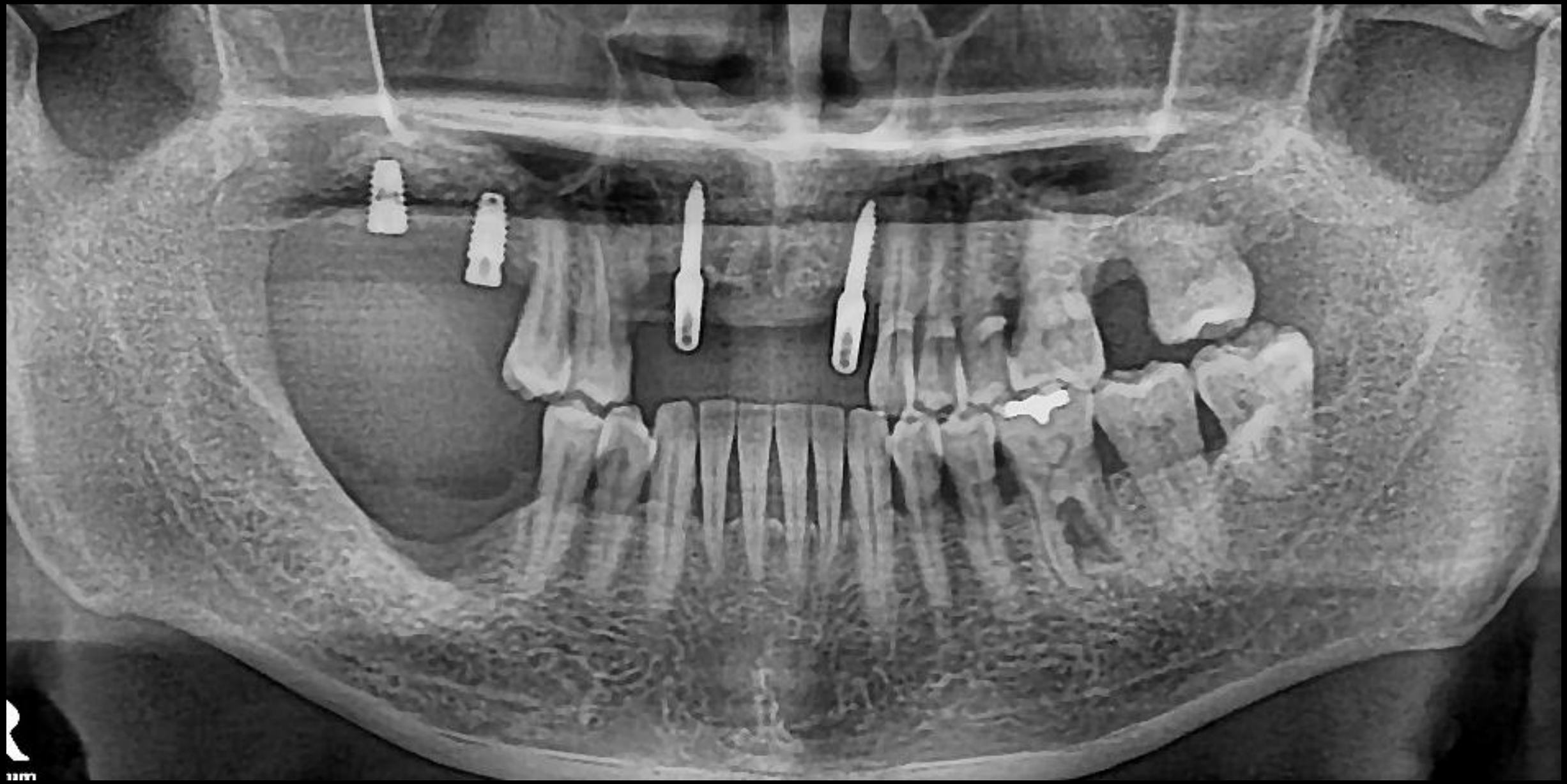
Immediate Implantation with Easy Bone Graft



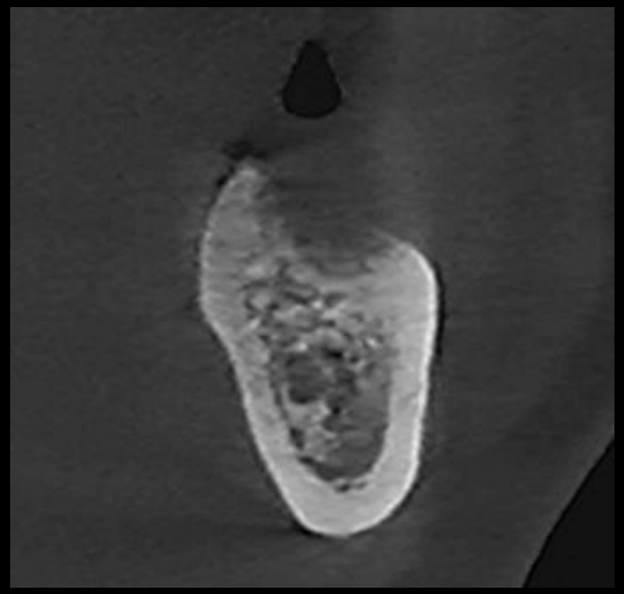
Dentium dental Clinic
Dr. SM Chung

** 183p Surgery VOD 5

Pre-op (2025-10-31)



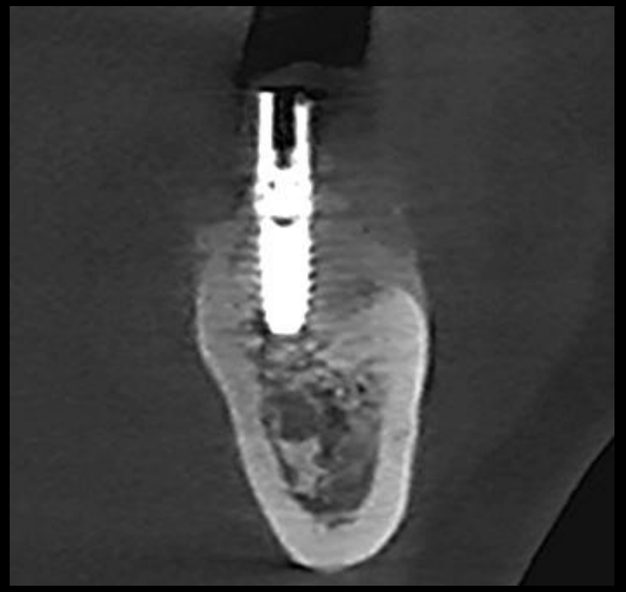
Pre-op CT (2025-10-31)



#47

#46

Post-op CT (2025-10-31)



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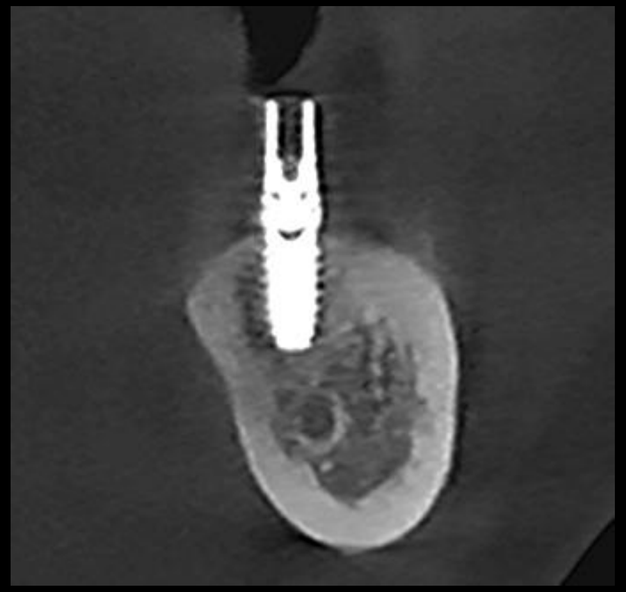

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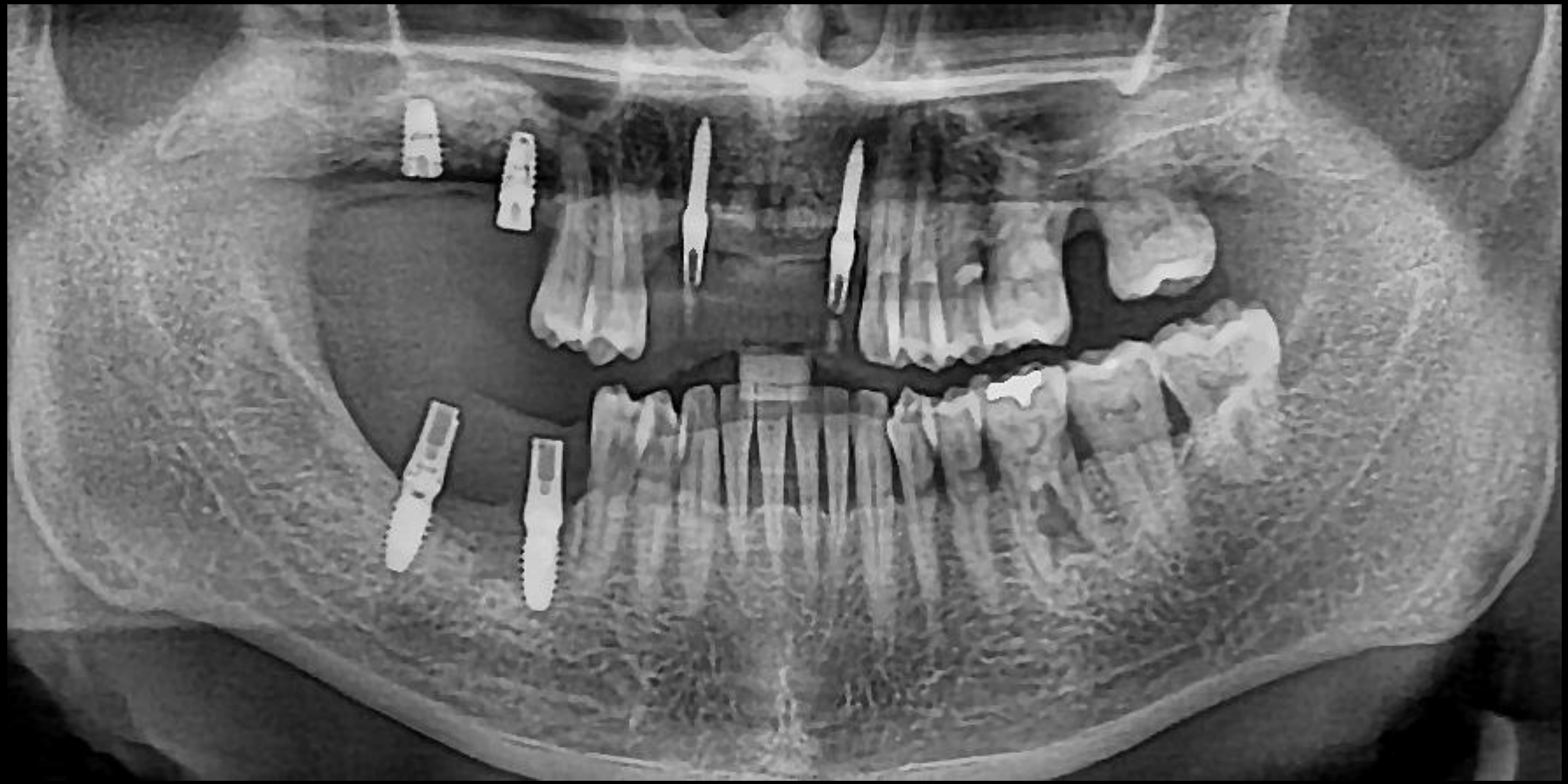
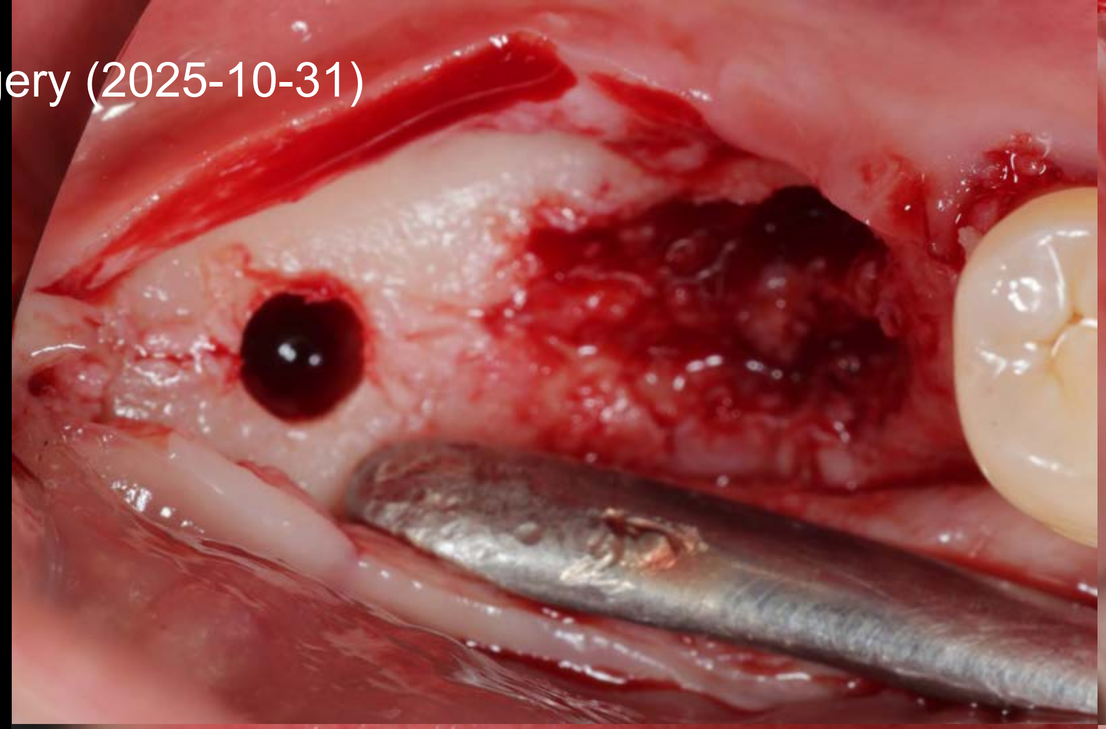
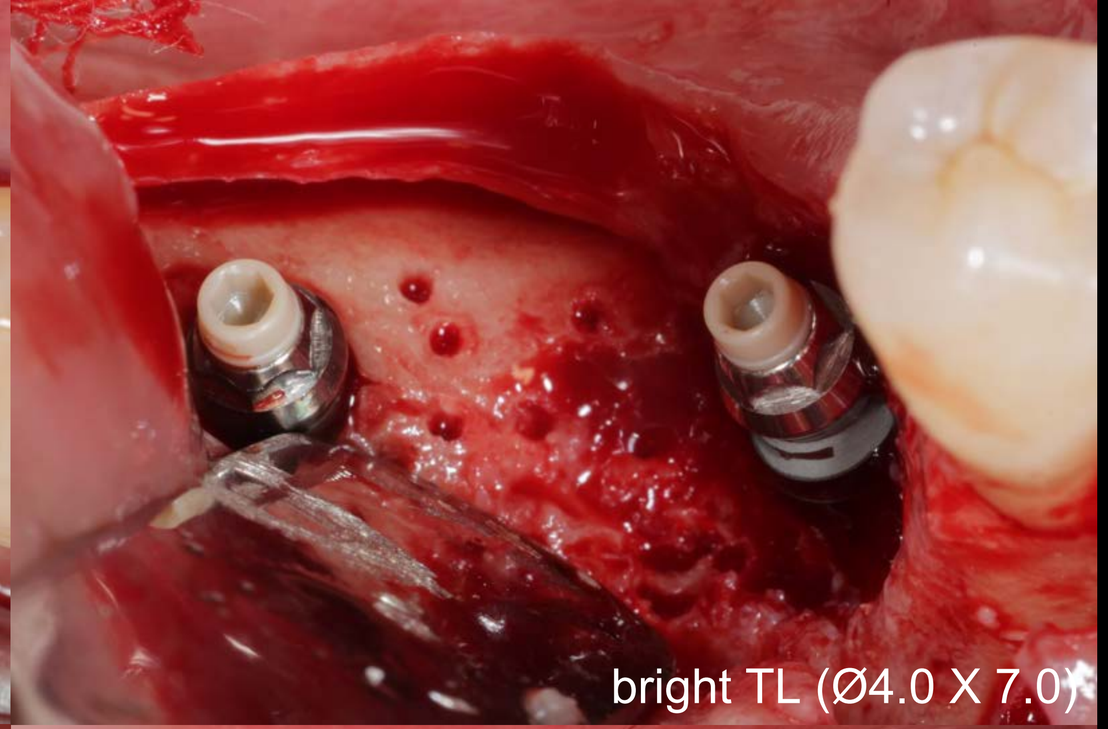
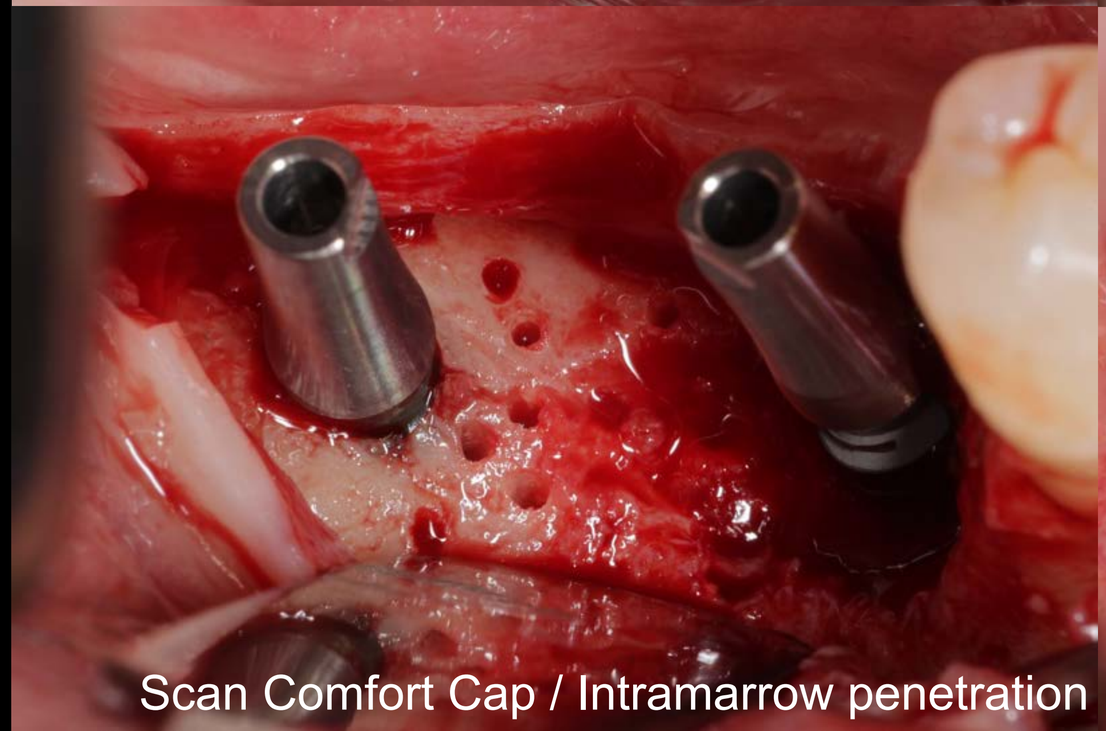
Post-op (2025-10-31)

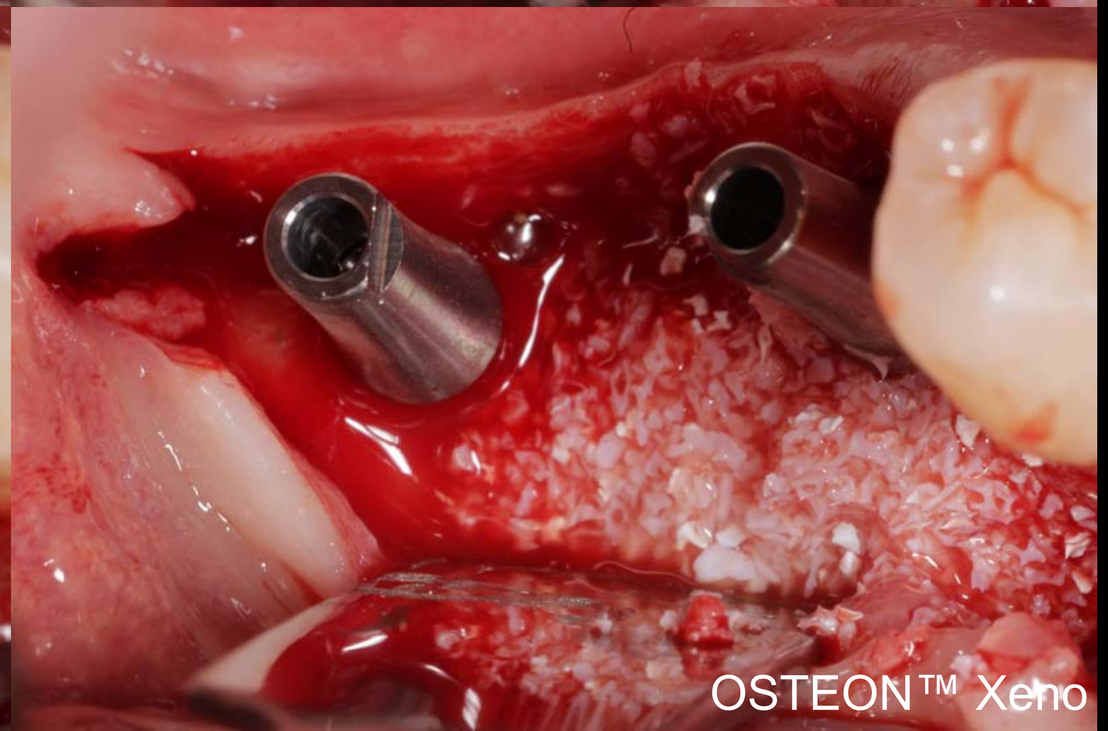


Pre-op (2025-10-31)

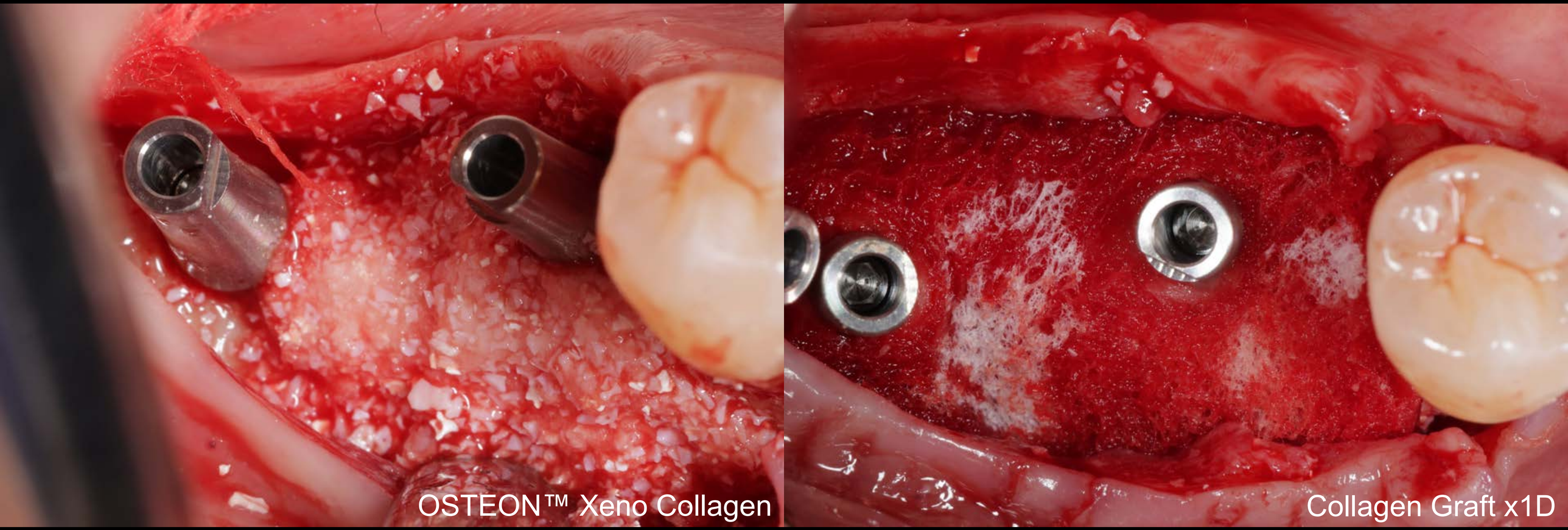

Surgery (2025-10-31)


bright TL (Ø4.0 X 7.0)

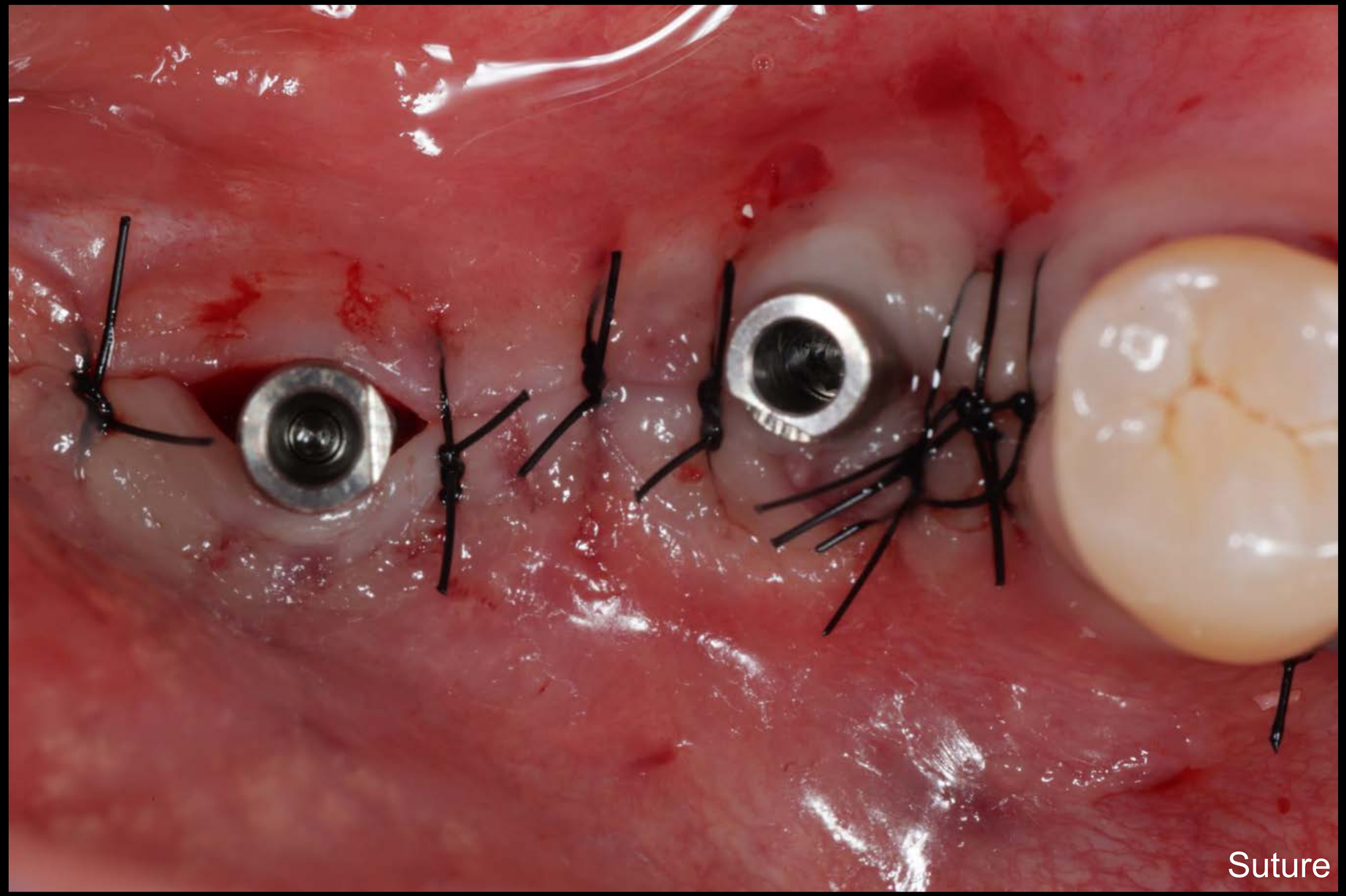

Scan Comfort Cap / Intramarrow penetration


OSTEON™ Xeno

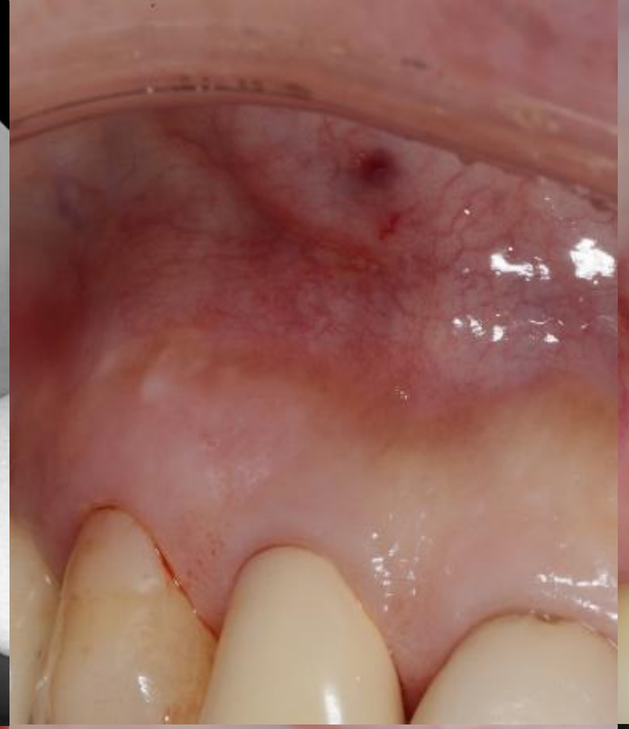
Surgery (2025-10-31)

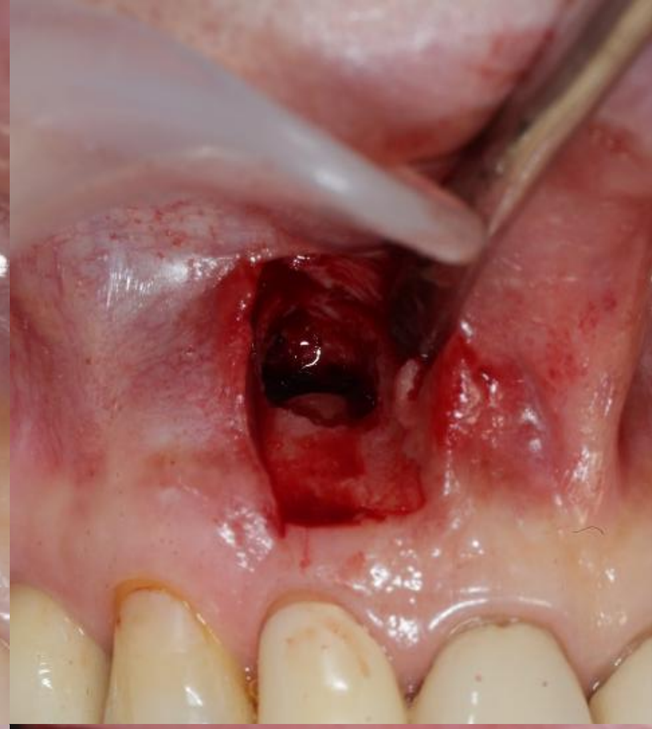


Post-op (2025-10-31)

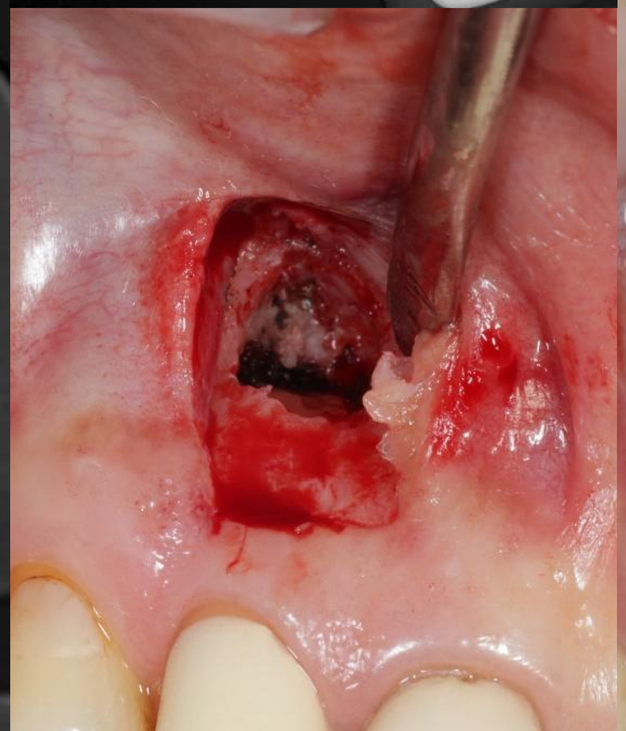


Pre-op CT

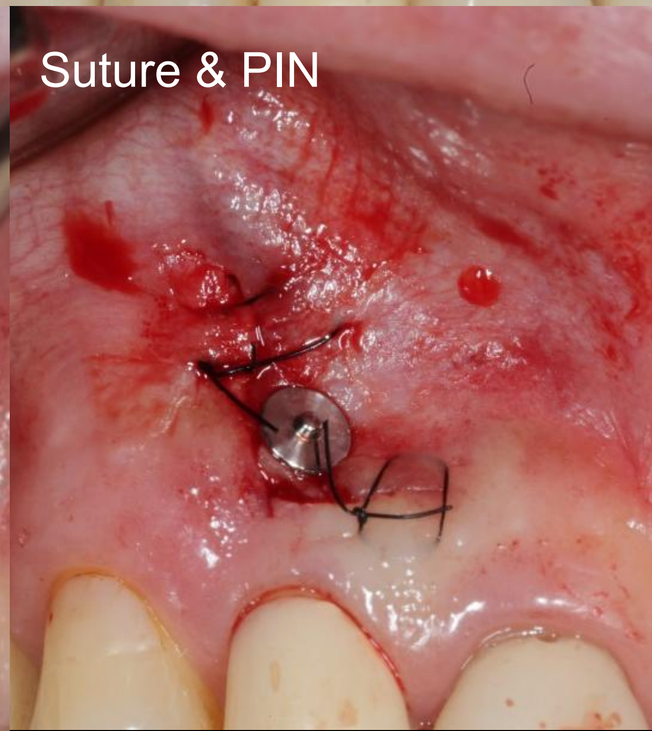


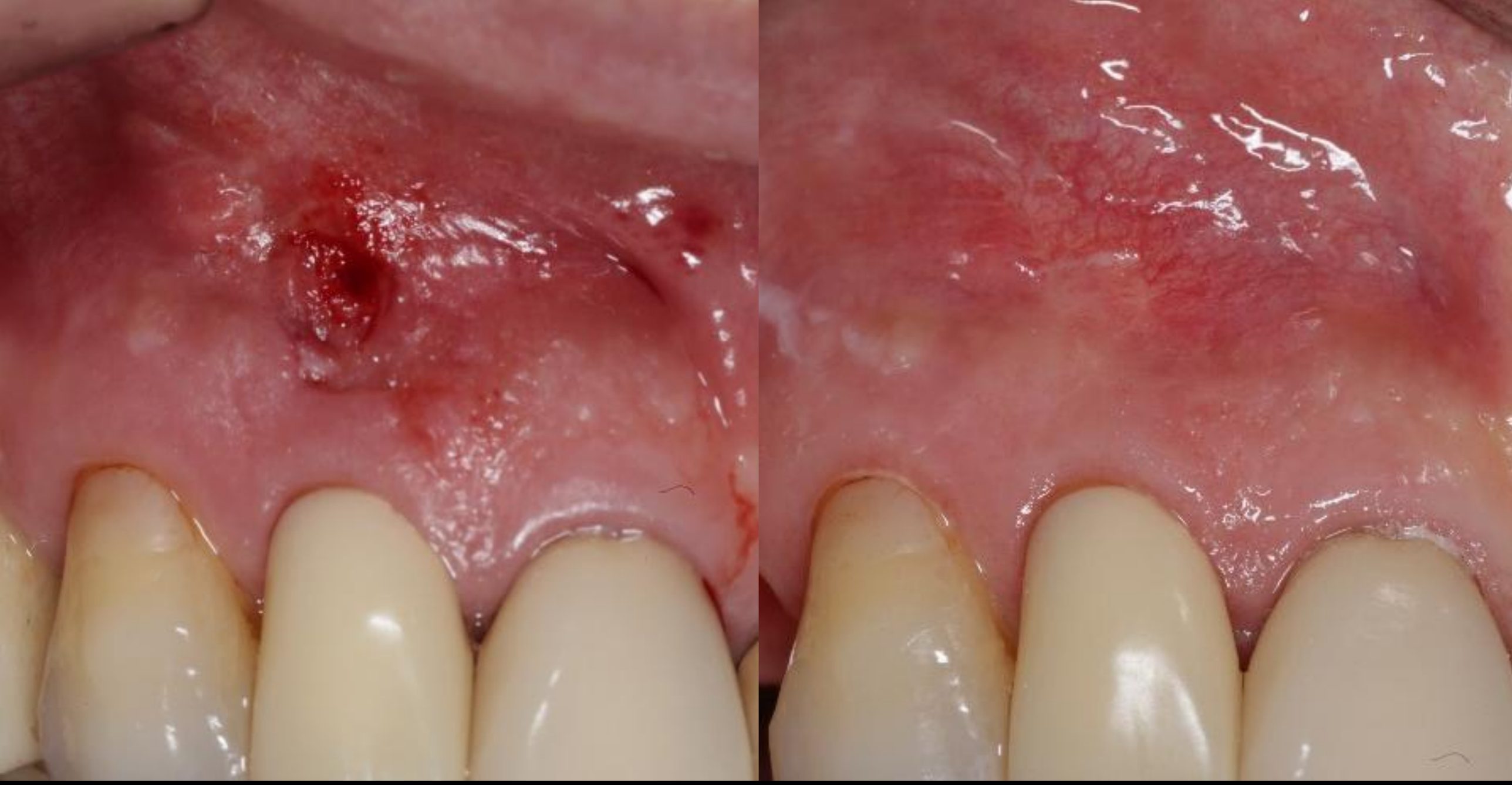


Post-op CT



Collagen Graft x1D


Suture & PIN



Healing : 1 week

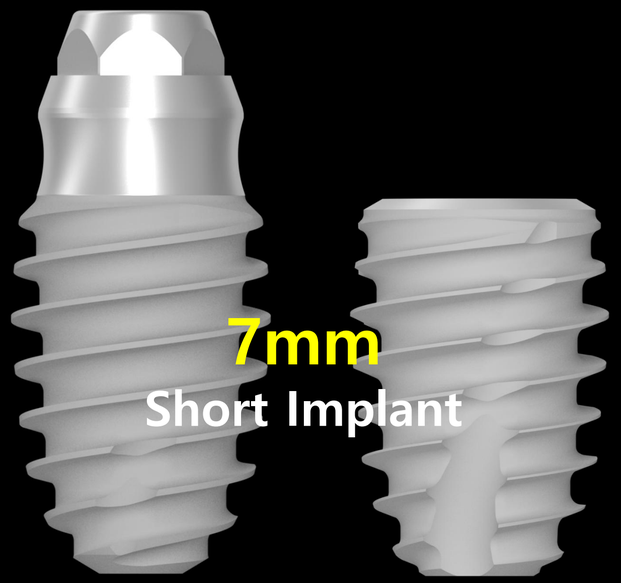
Healing : 4 weeks

Guideline

Dentium

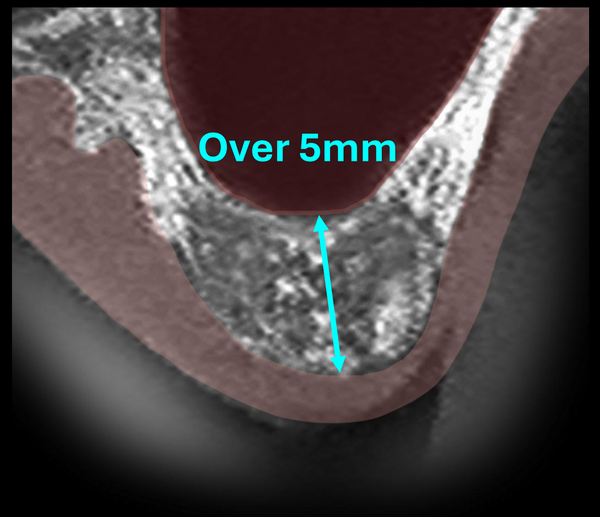
Dentium’s classification of sinus elevation based on residual bone height

bright Implant

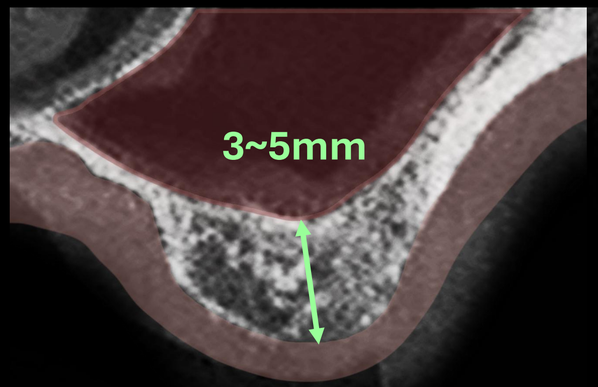


Tissue Level Bone Level

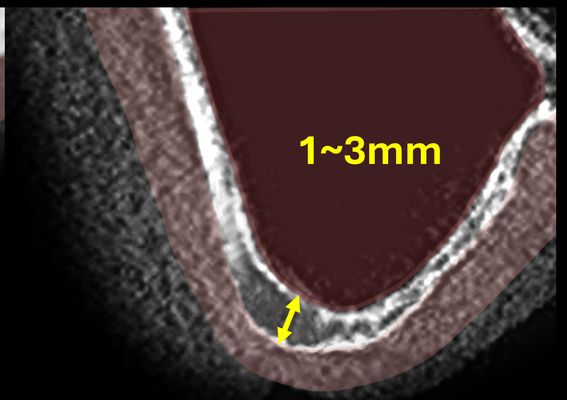
Bicortical Fixation



Crestal Approach

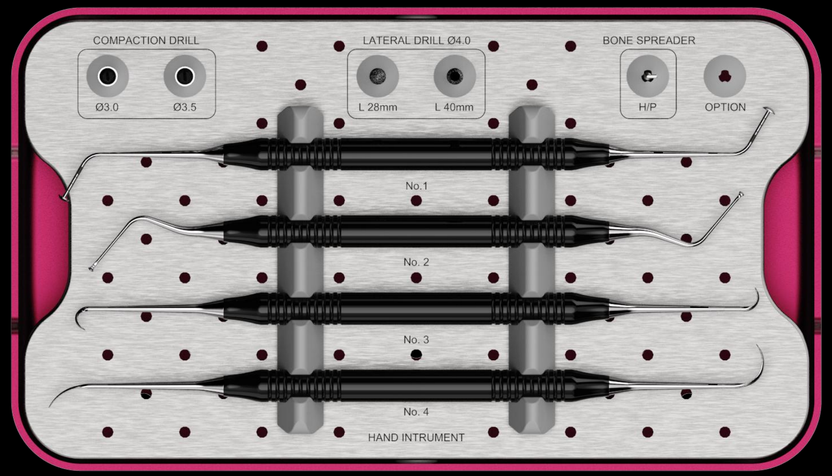


Lateral Approach



DASK Simple

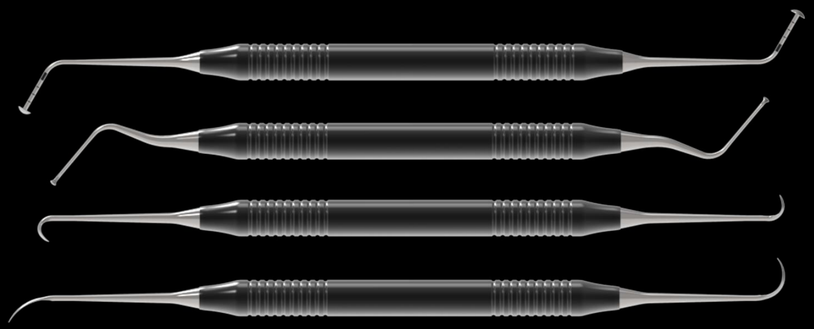
Dentium



Compaction Drill

Lateral Drill

Bone Spreader



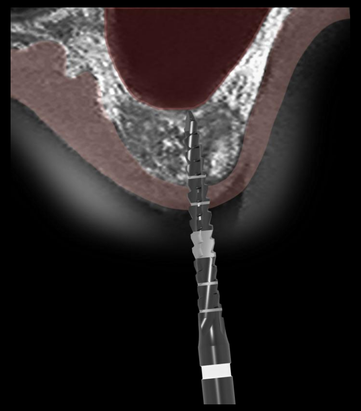
Hand Instruments

DASK Simple is designed to facilitate safe, efficient and minimally invasive **sinus lift** procedures

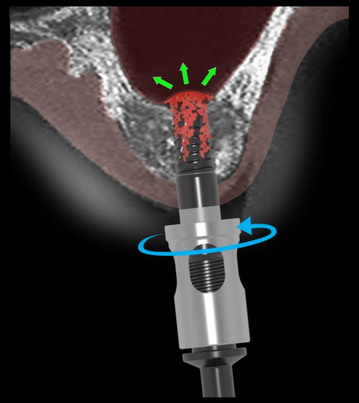
Bicortical Fixation

Residual bone height > 5 mm

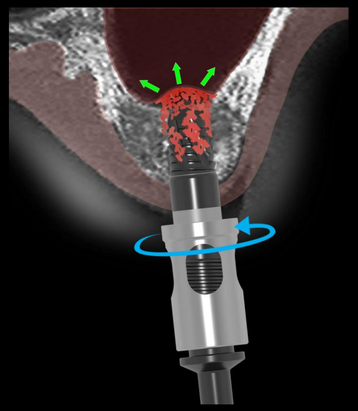
Dentium



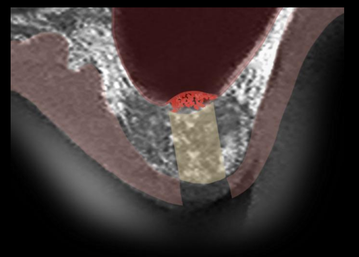
Initial drilling



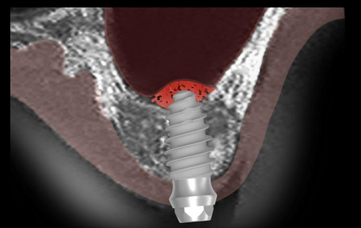
Compaction drill Ø3.0



Compaction drill Ø3.5



Auto bone chip lifting

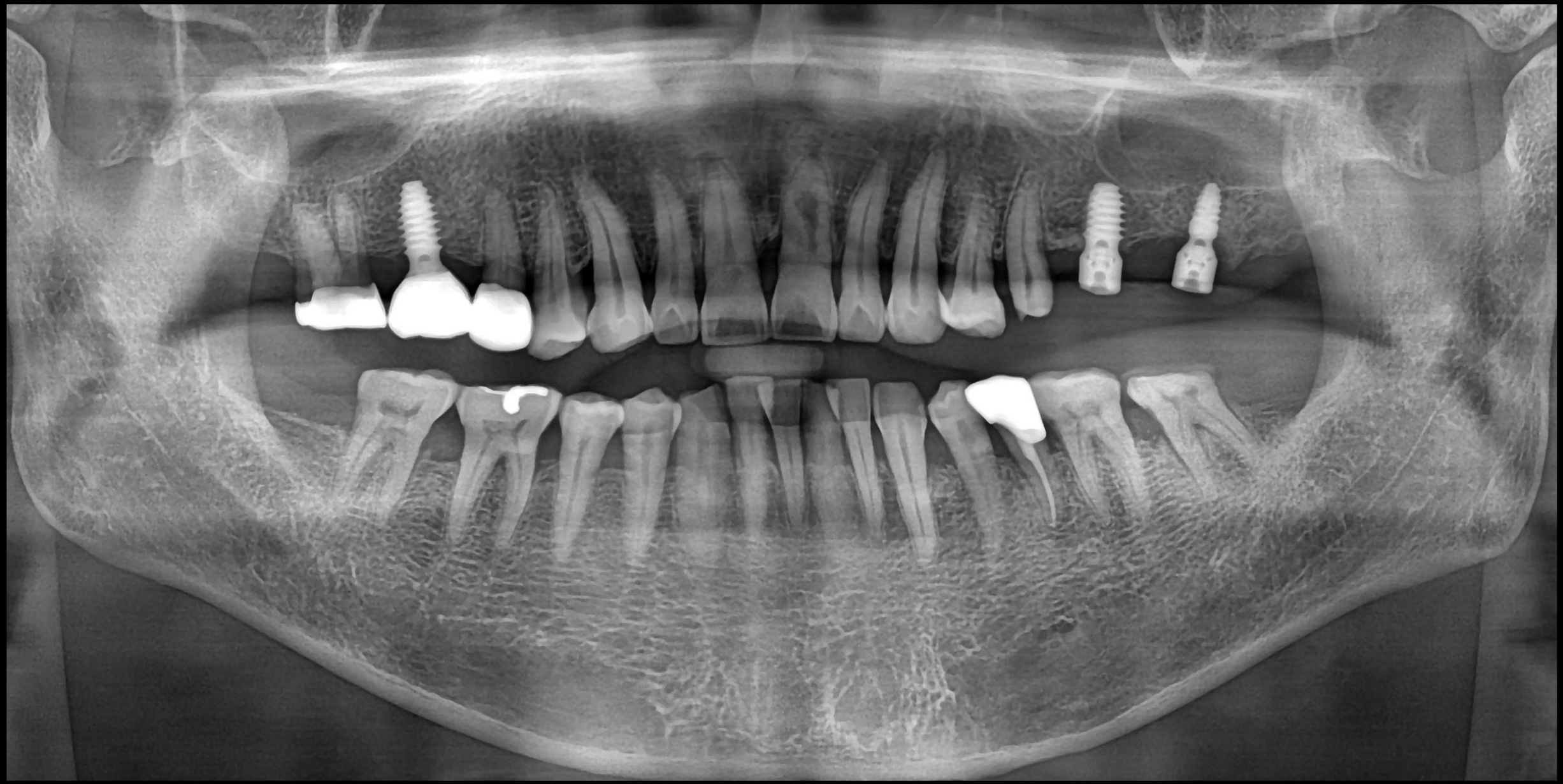


Implantation

- The **compaction drill** is elevated the sinus membrane with bone chip. 1~2mm can be lifted by the **autogenous bone chip** without any **bone graft material**

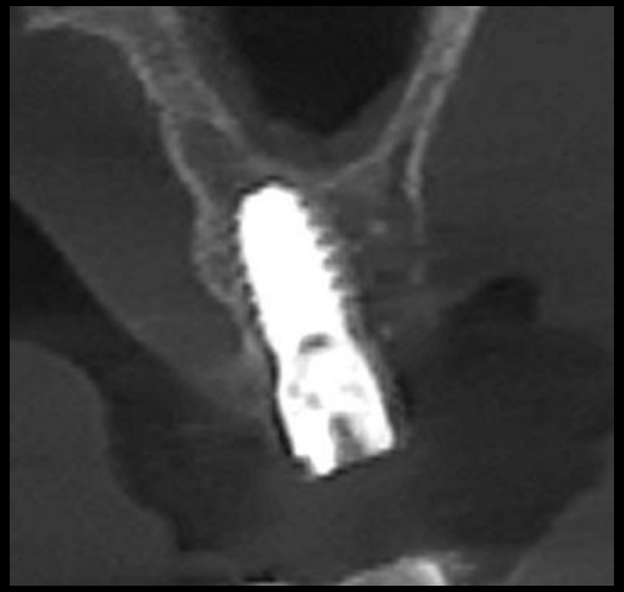
- The initial drilling **depth** is adjusted according to the **length** of the implant fixture

Post-op (2024-10-08)

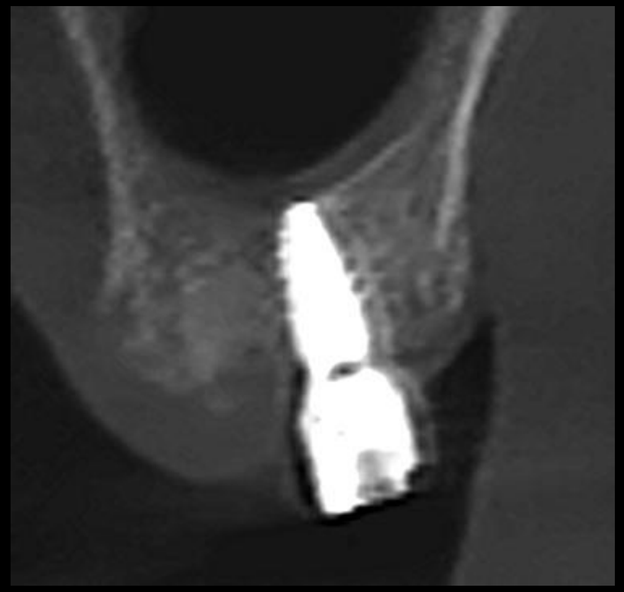


Final prosthesis (2025-01-08)

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

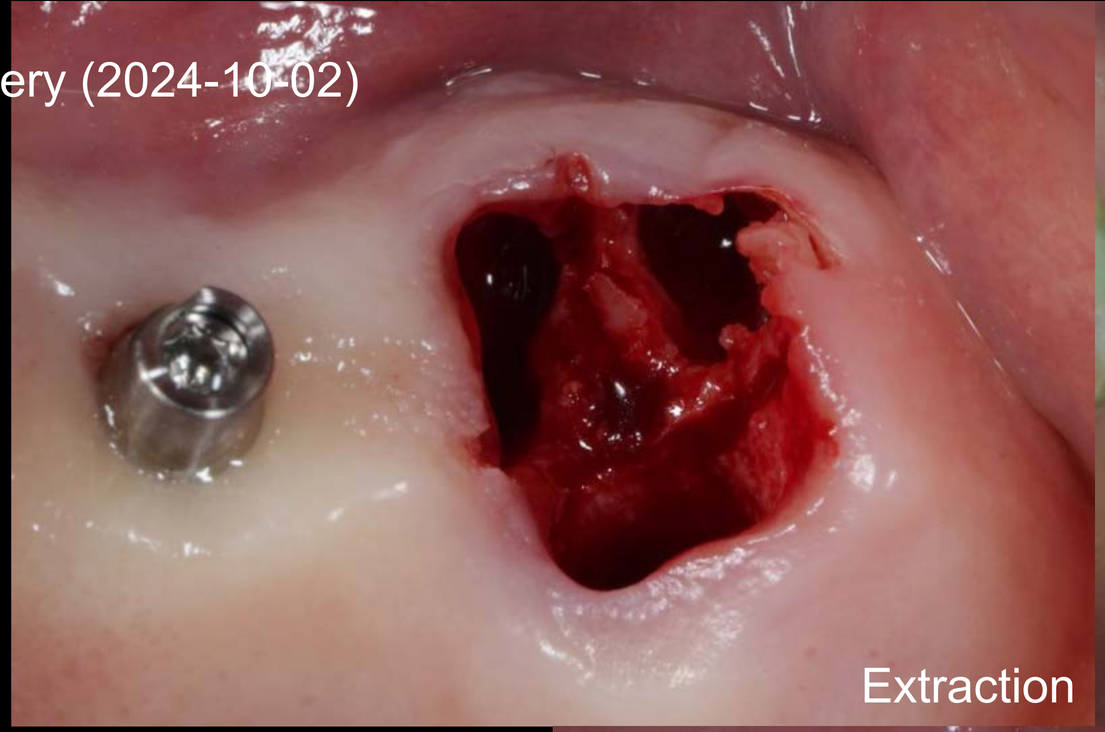


#26



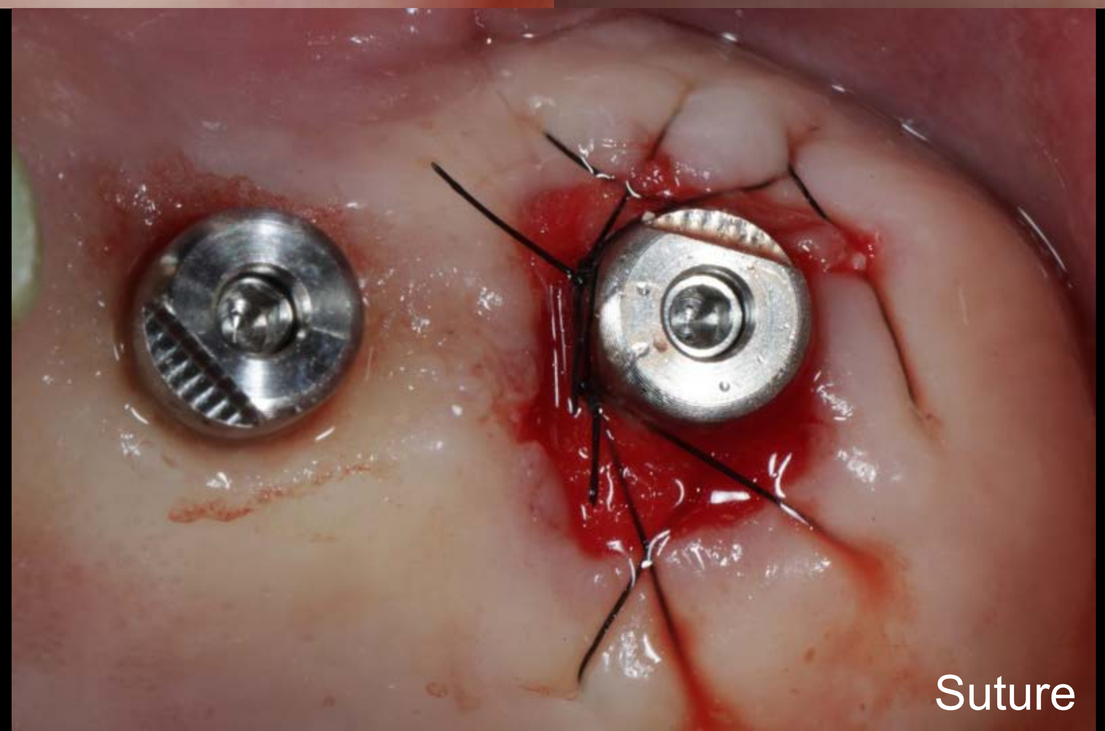
#27

Surgery (2024-10-02)



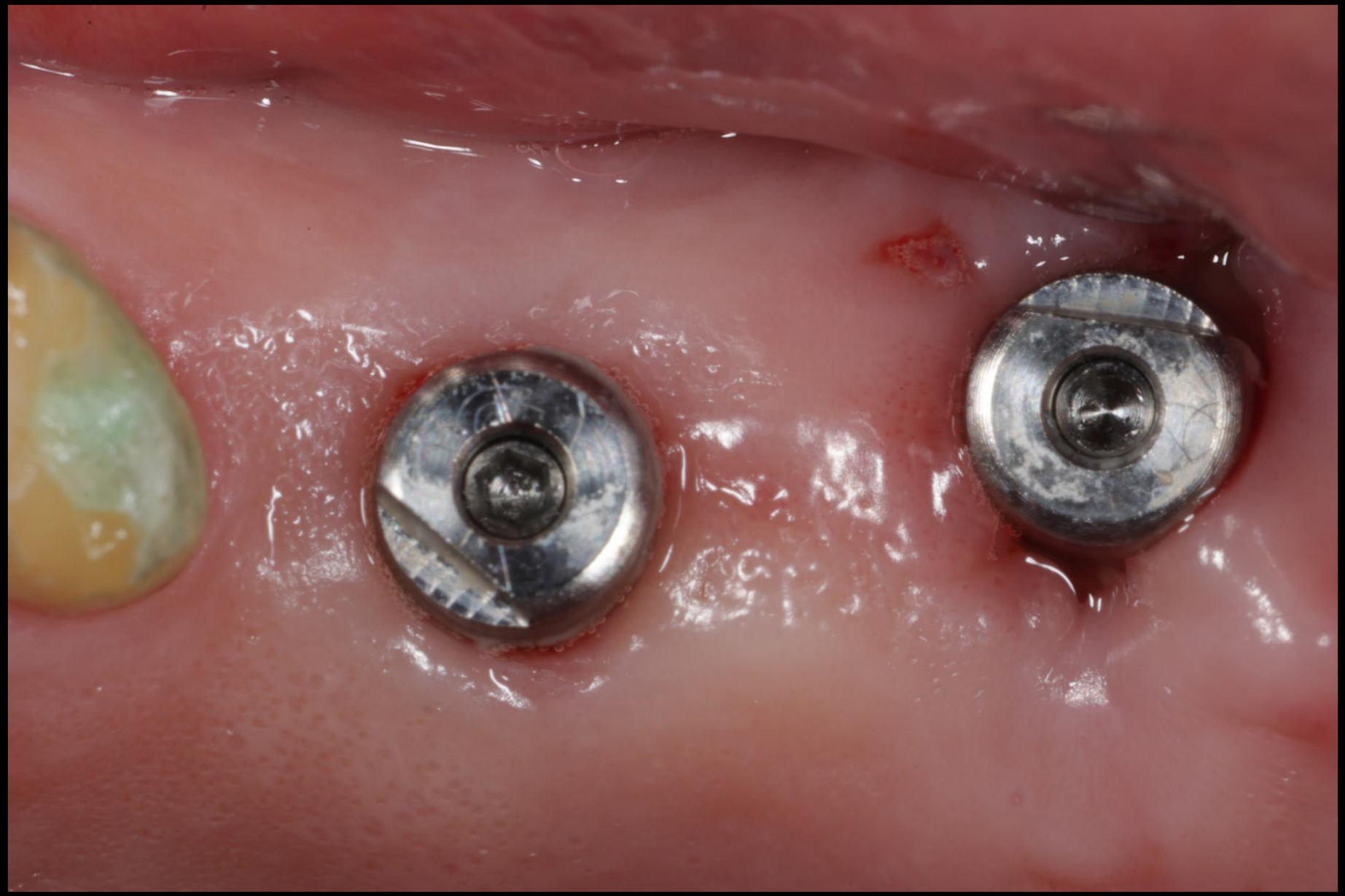
Extraction

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



Suture

Healing : 1 week (2024-10-08)

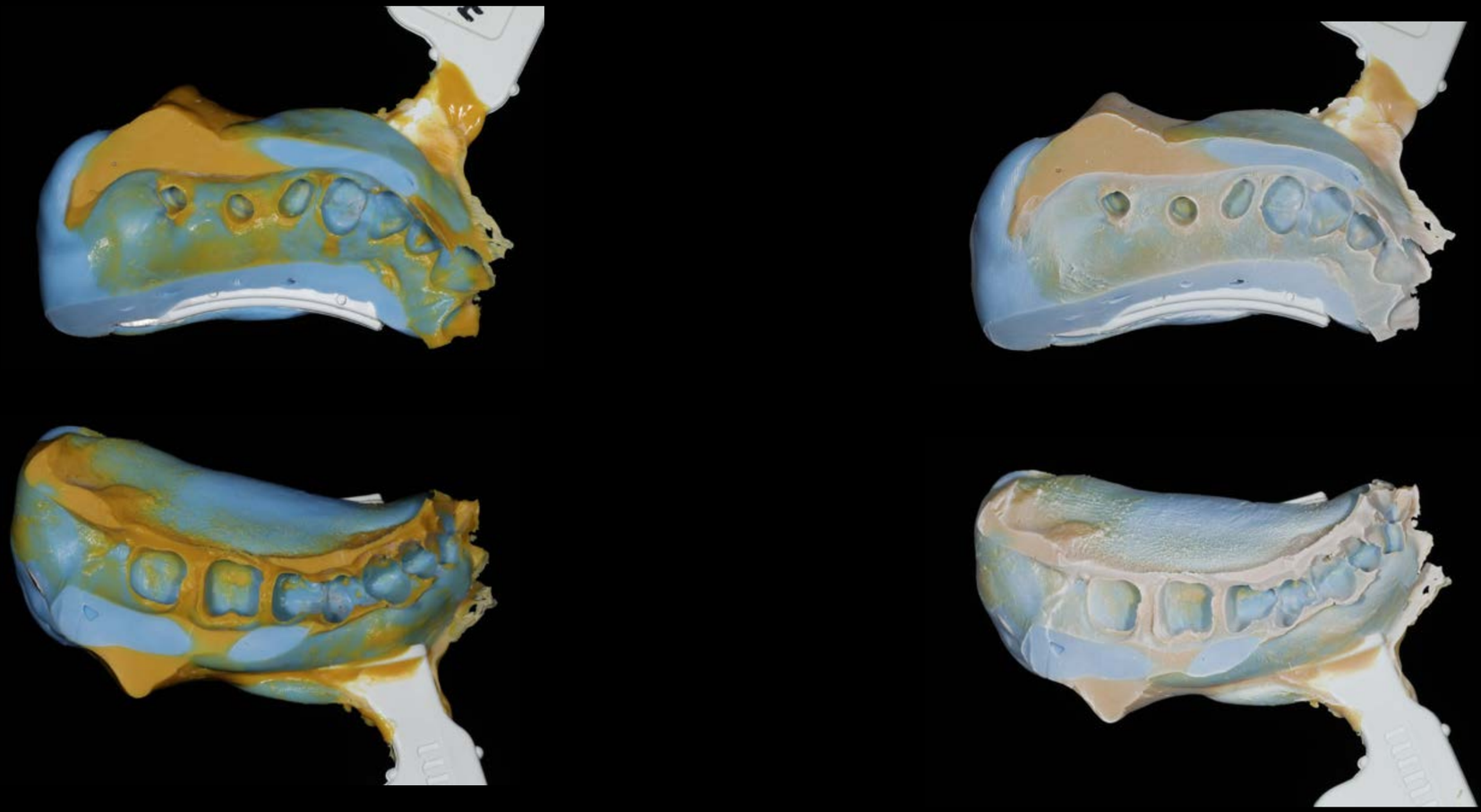


Healing : 1 month (2024-10-30)

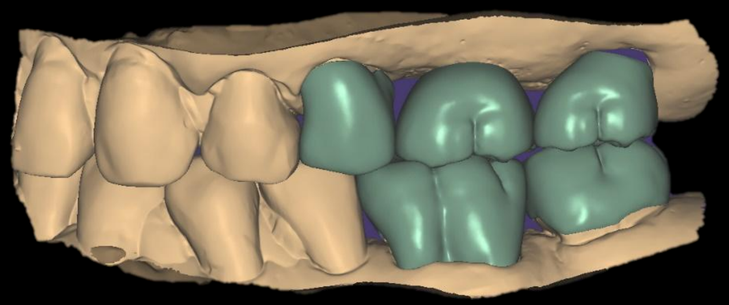
Intra Oral Scan (Elite)

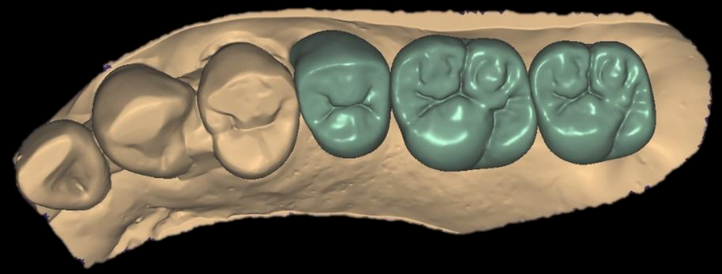
Intra Oral Scan (Wireless)

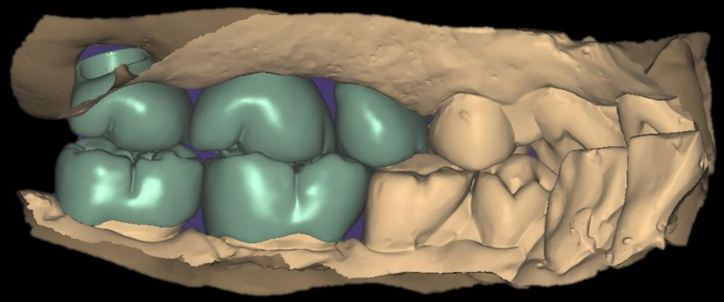
Impression / Trimming / Scan Spray

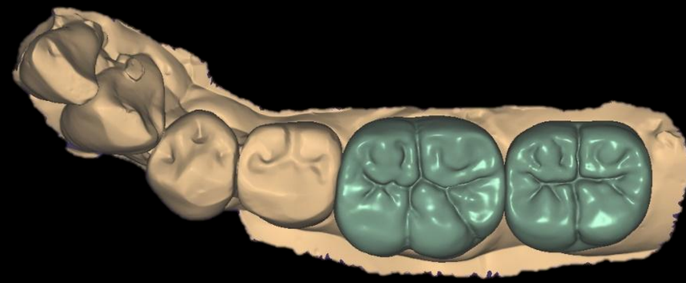


CAD (Temporary)







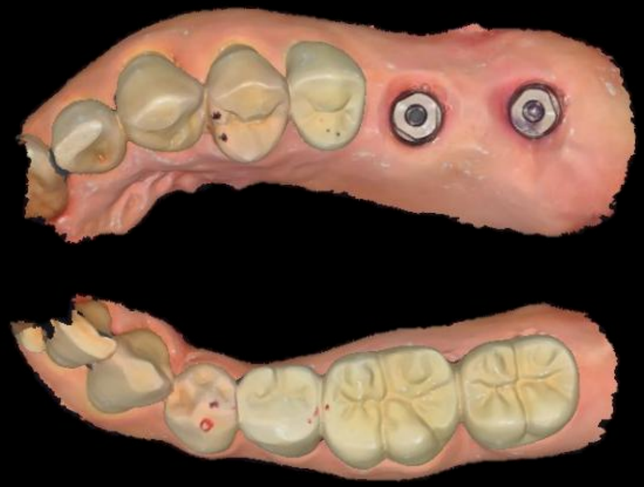


Temporary Crown

Provisional restoration (2024-10-31)

Working model

Shining 3D Aoralscan Elite



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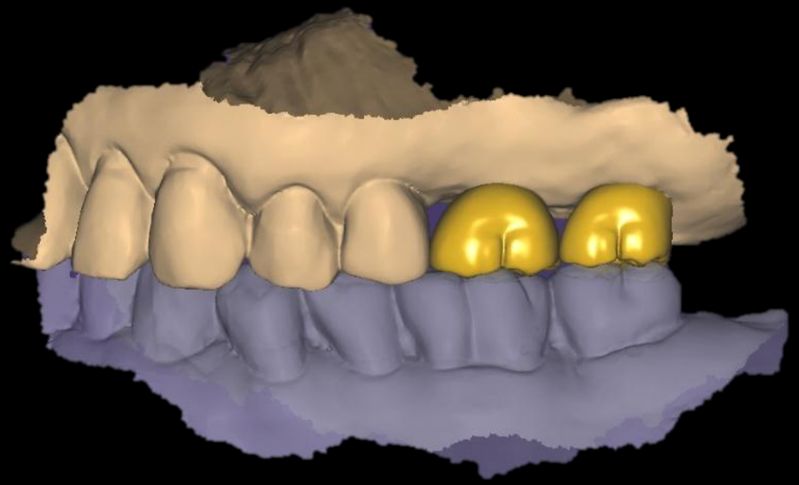

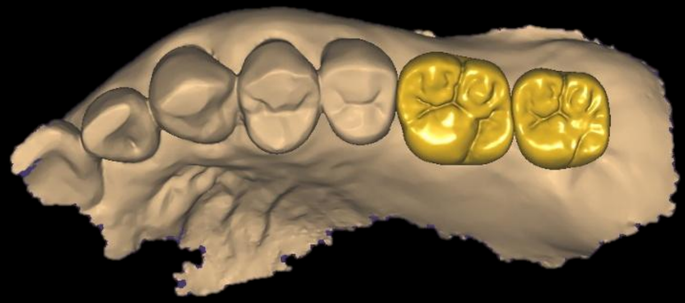

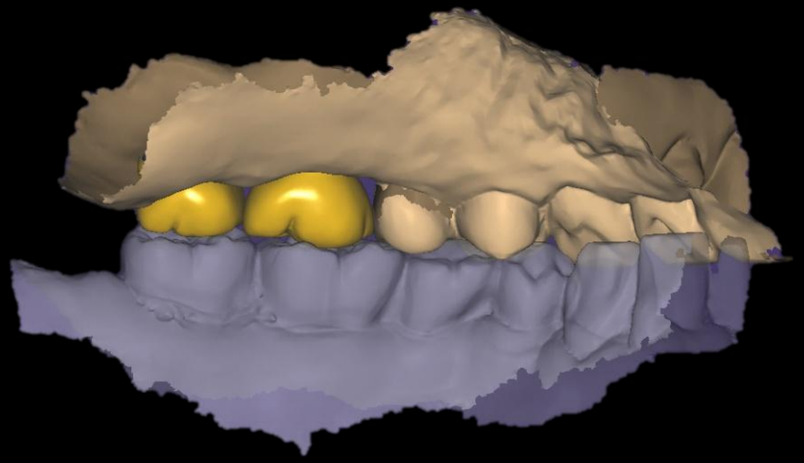

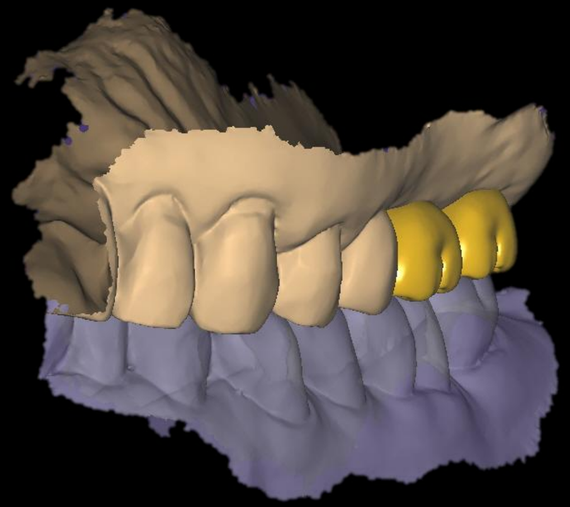

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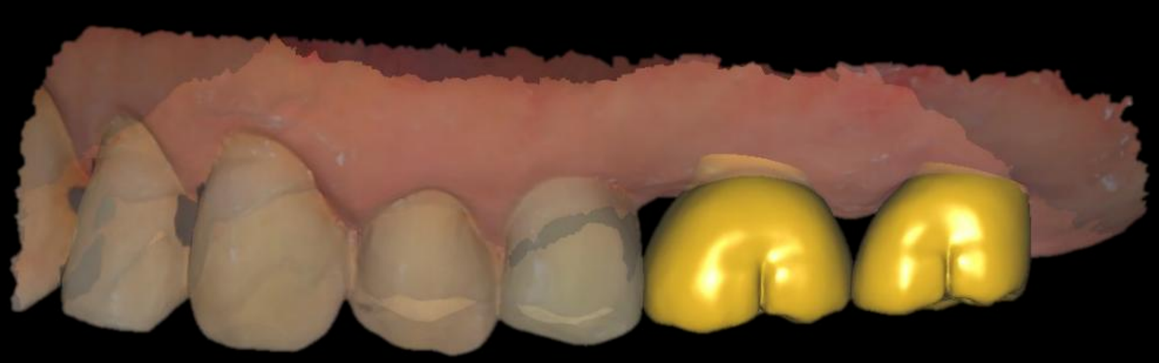
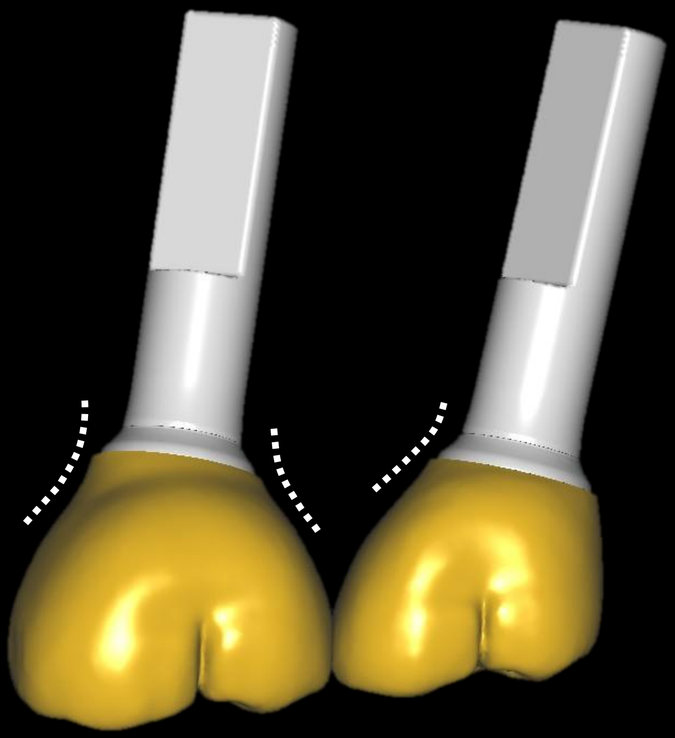
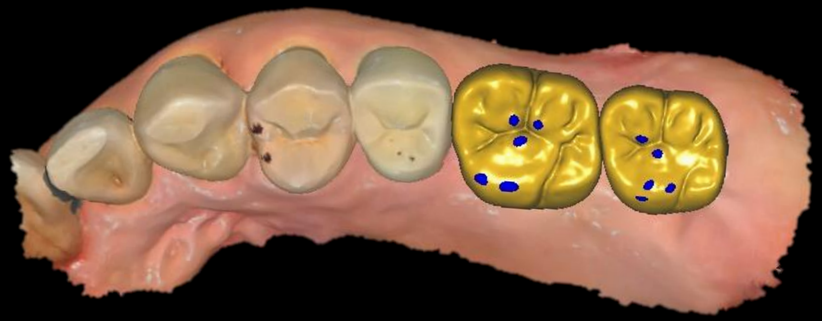


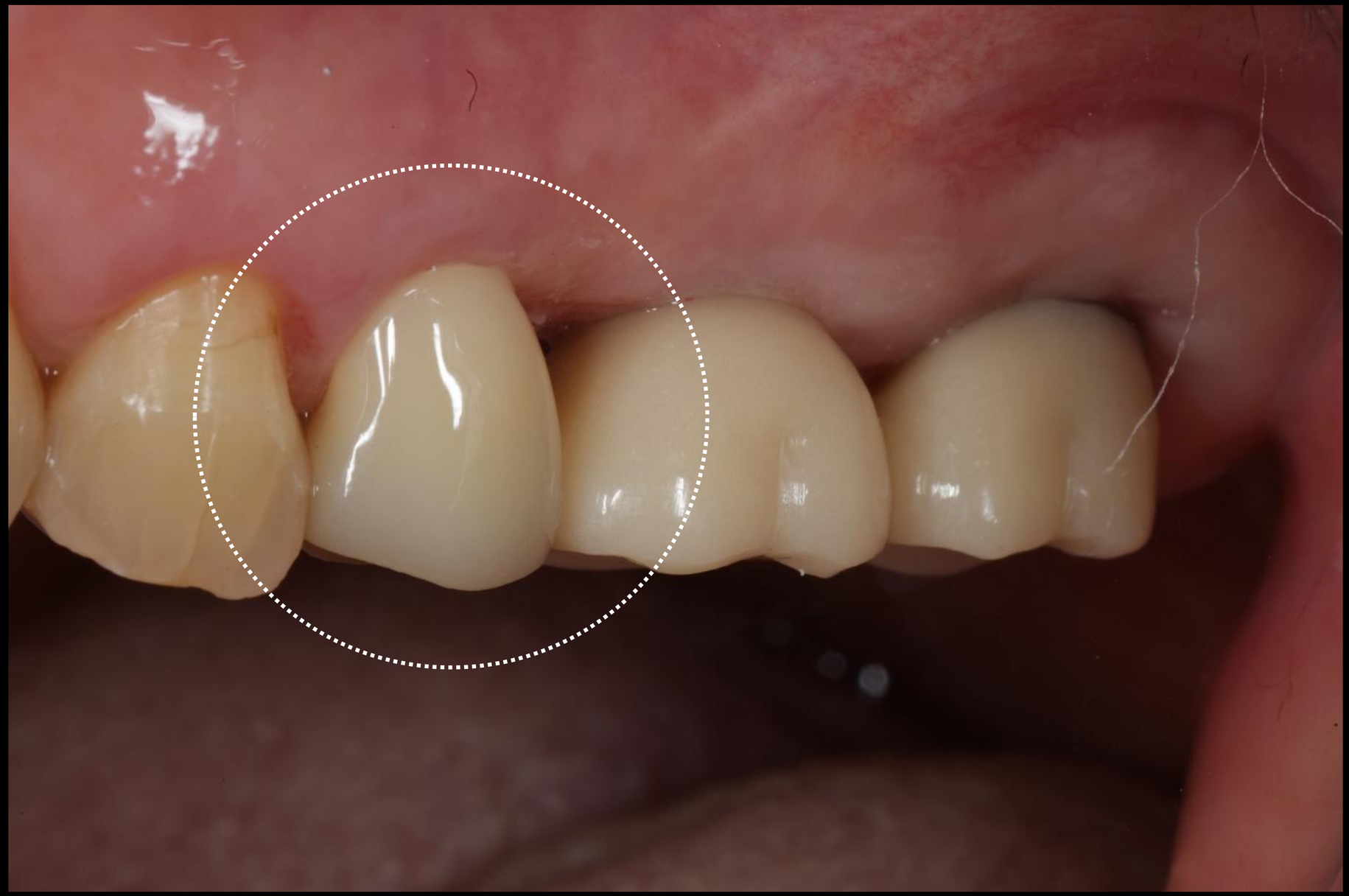


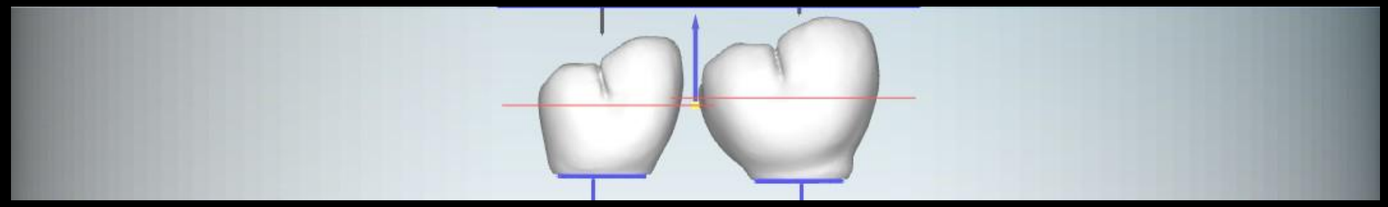
CAD Design



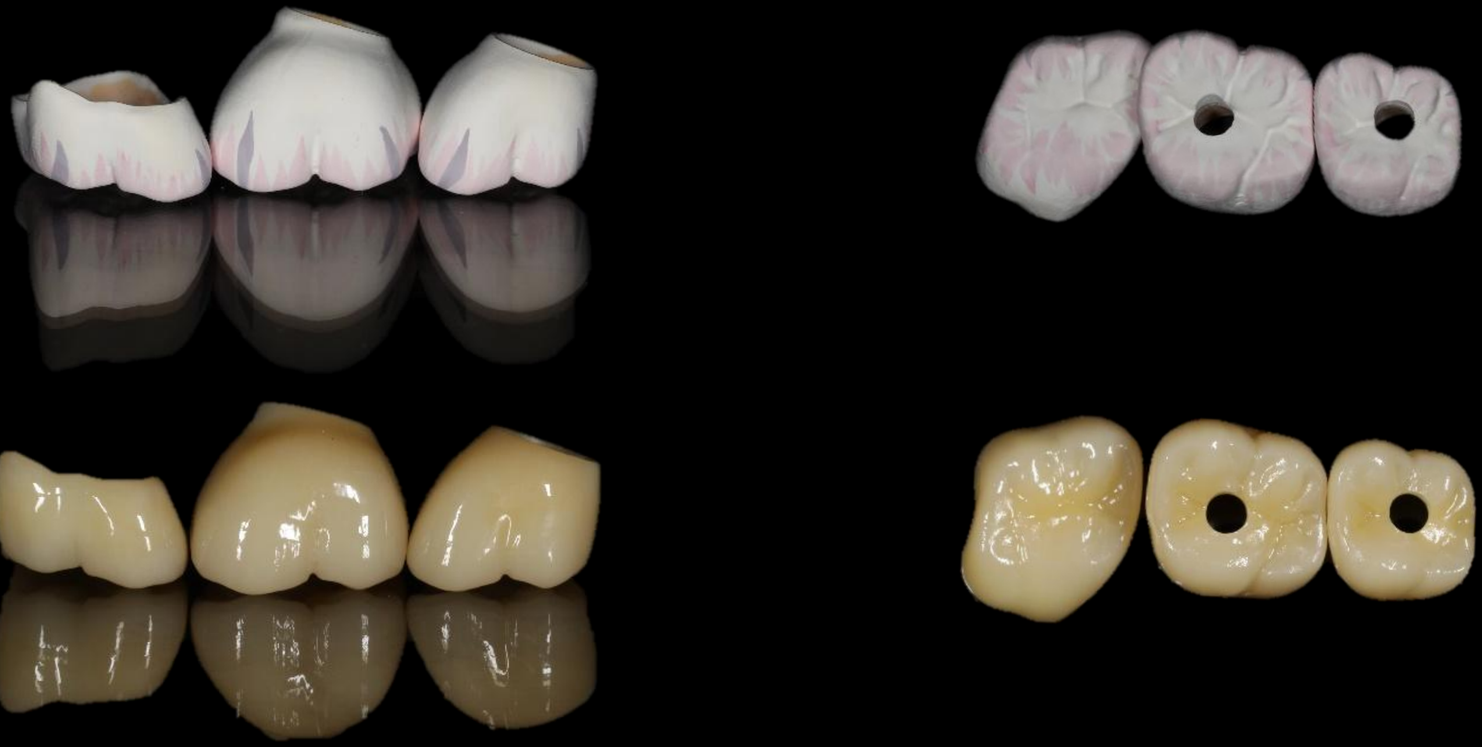
Virtual articulator

Shade Taking





bright Mono Block A3



Final Prosthesis

Final Prosthesis

Dentium Dental Clinic - Bicortical Fixation CASE 1

Conclusion : Using a Compaction drill enables simple and accurate Bicortical Fixation

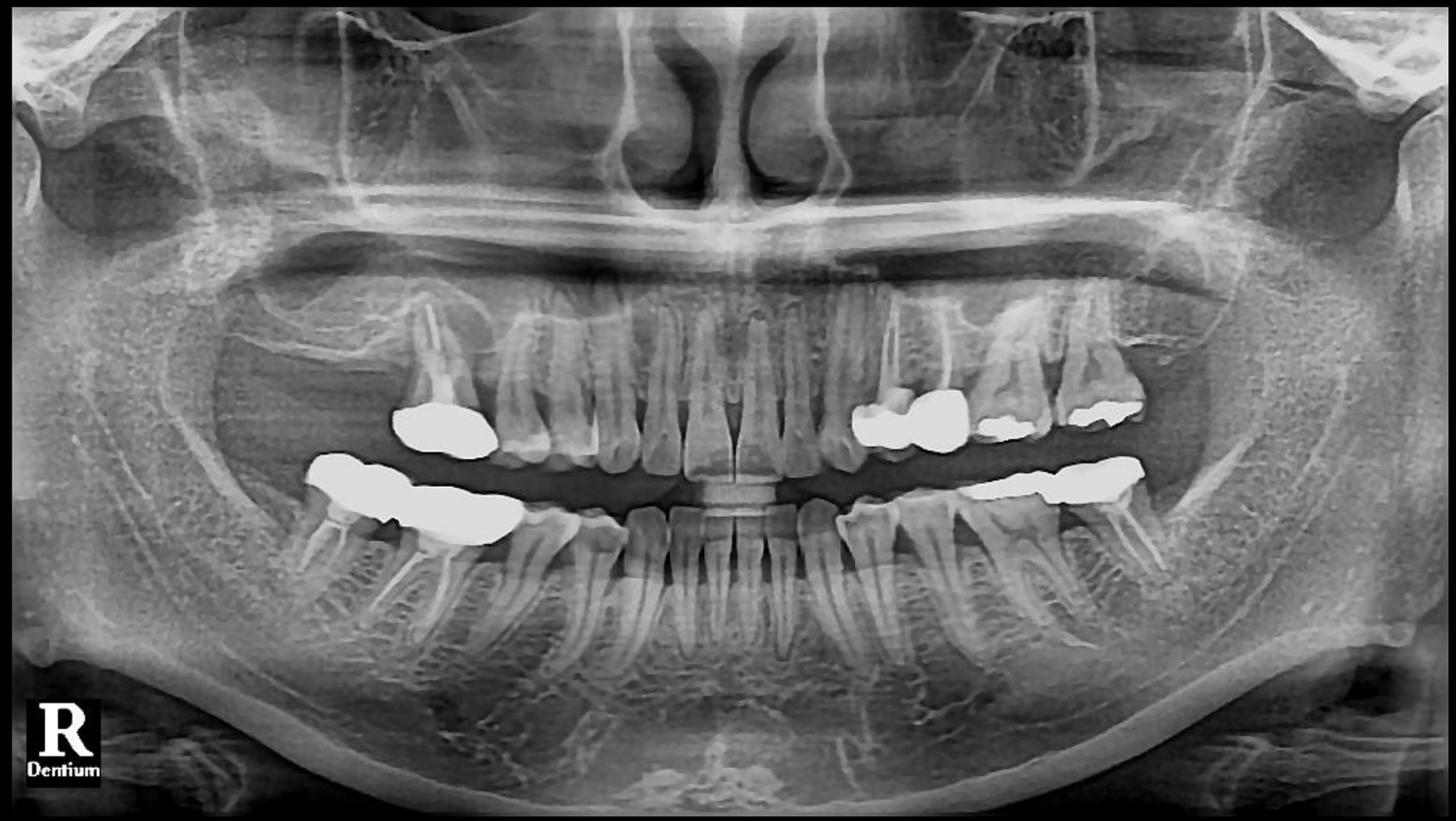
Age: 40s / F

CC : Consultation and treatment of the maxillary right posterior area

Plan) 6| EXT & Socket Preservation

7| Sinus Bicortical & Implant Surgery

Patients with high anxiety due to their first implant procedure

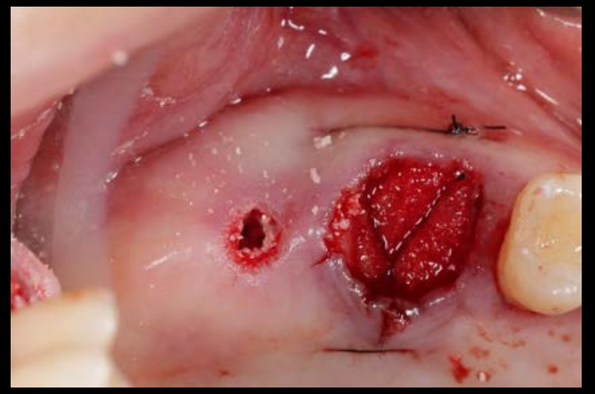


Dentium Dental Clinic - Bicortical Fixation CASE 1

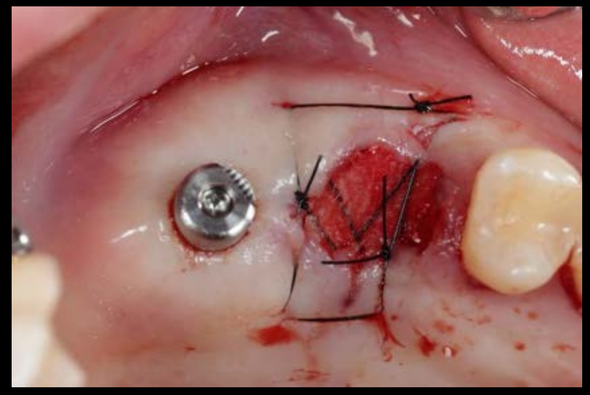
1 #16 EXT & Socket Preservation
#17 Sinus Bicortical Fixation & Implant Surgery

Pre-op

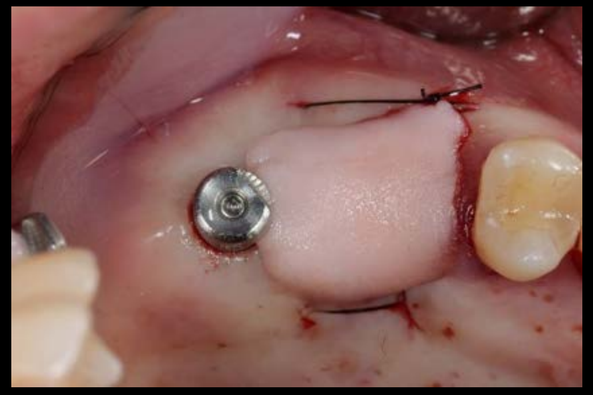
#16 EXT & Socket Preservation
+OSEON XENO Collagen
+Collagen Graft x1D
+PDRN



#17 Bicortical Fixation
+ Collagen Graft x1D



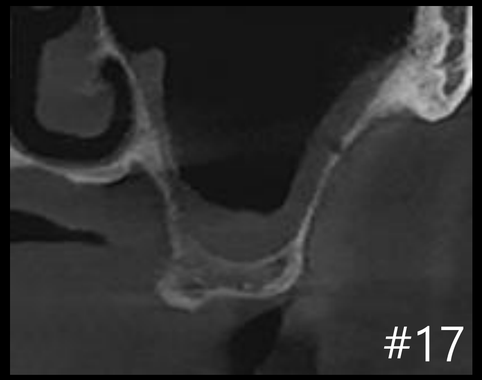
bright Implant TL ø**4.5** × **7.0**



#16i Bright Oral-Pack

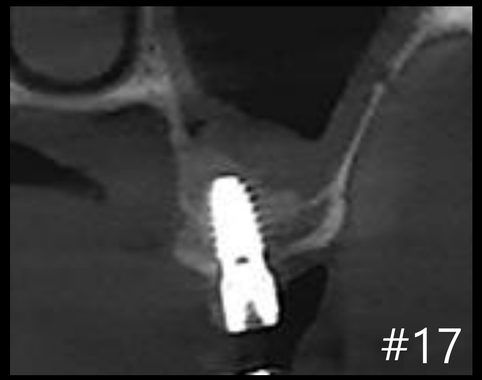
Dentium Dental Clinic - Bicortical Fixation CASE 1

2 Postoperative CT taken and compared

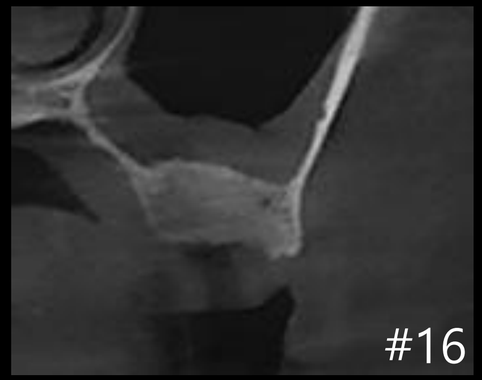


Pre-op

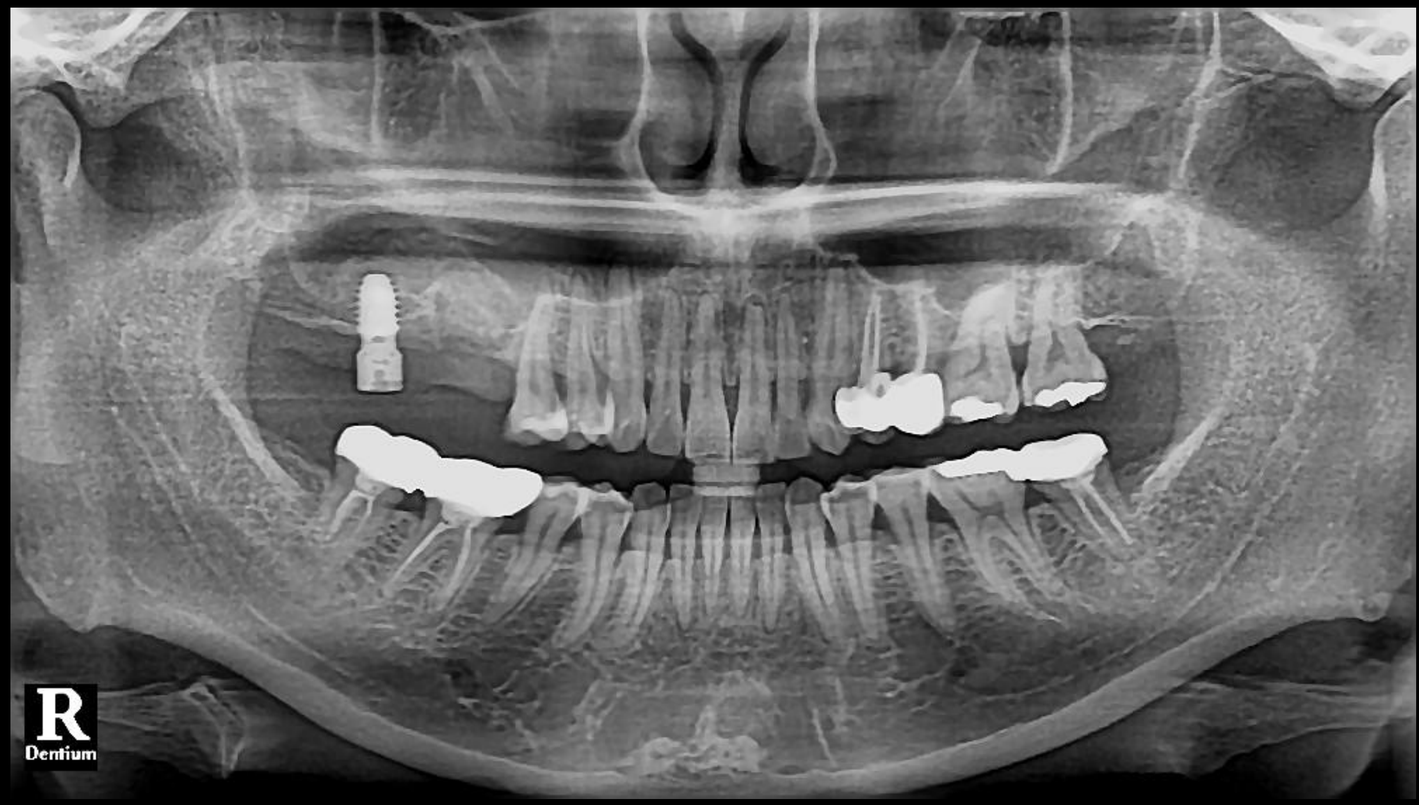
Post-op



Pre-op



Post-op



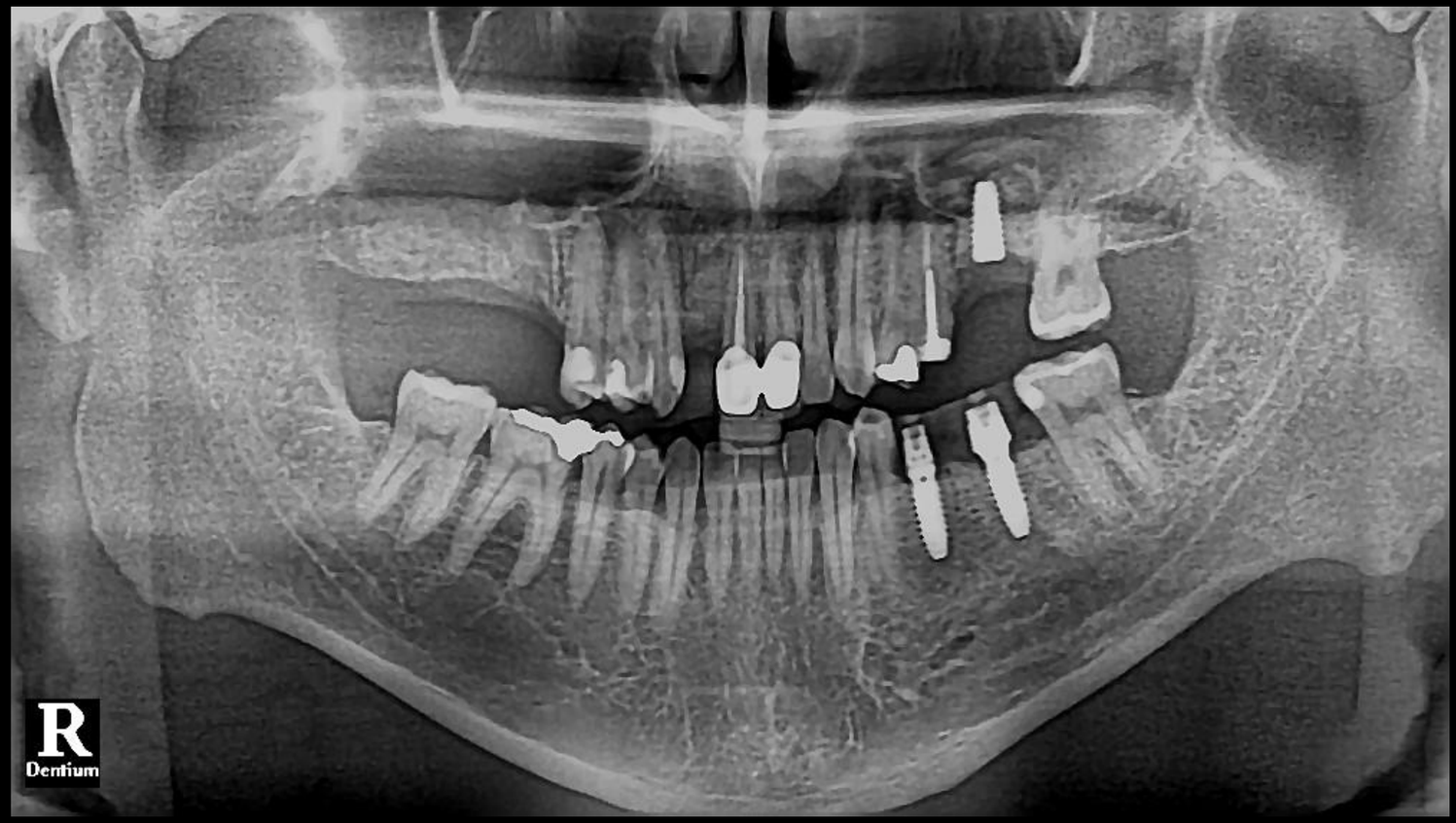
Virtual pano

Dentium Dental Clinic - Bicortical Fixation CASE 2

Age: 30s / M

Plan) 7 6 7M after EXT
Bicortical Fixation
& Implant Surgery

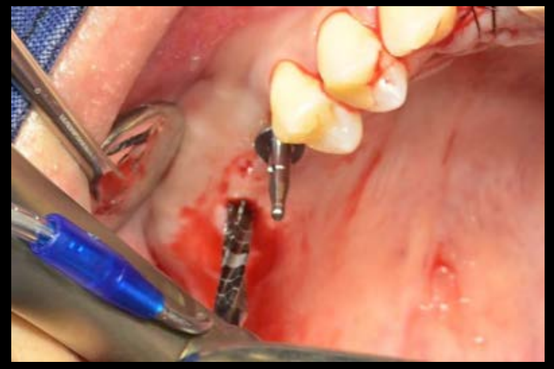
** Sinus Perforation at #16 during extraction **



Dentium Dental Clinic - Bicortical Fixation CASE 2

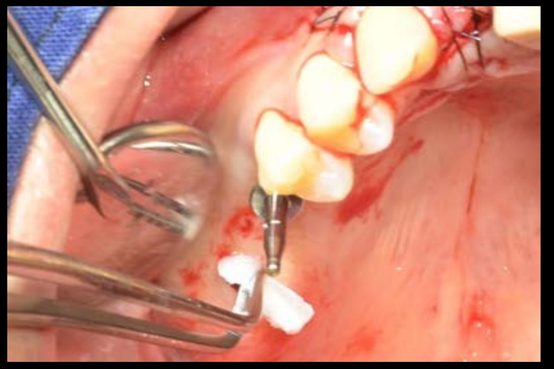
1 #16 #17 Sinus Bicortical Fixation & Implant Surgery

Pre-op



Guide Drilling

1st Compaction Drilling



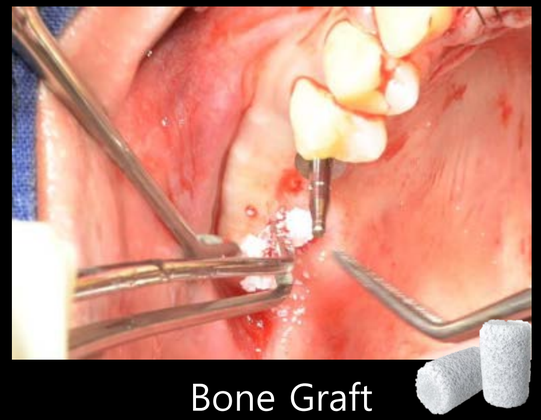
Collagen Graft x1D

2nd Compaction Drilling

Collagen Graft widely distributed using a spreader

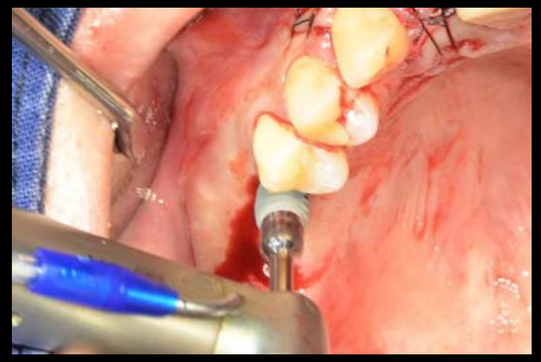
Dentium Dental Clinic - Bicortical Fixation CASE 2

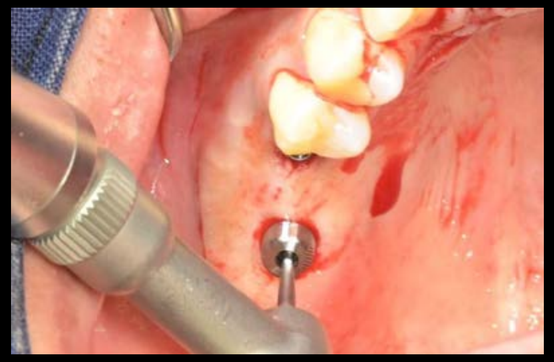
1 #16 #17 Sinus Bicortical Fixation & Implant Surgery



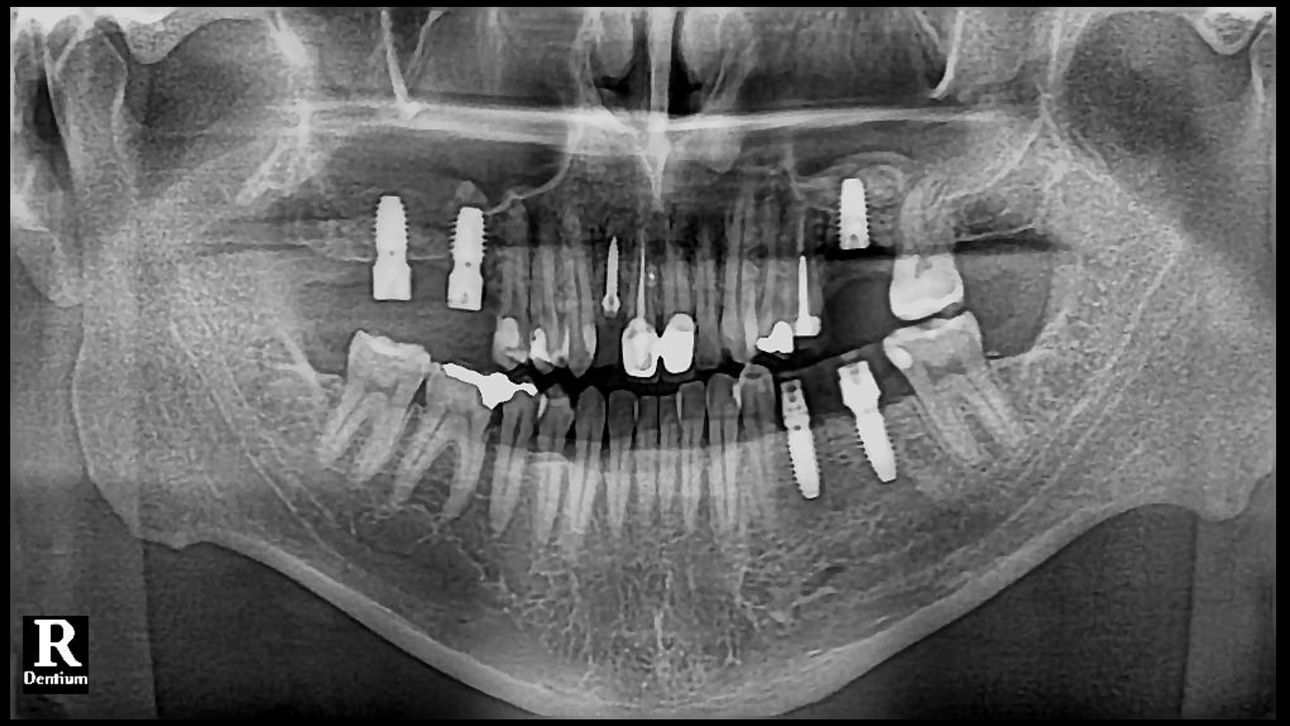
Bone Graft
+OSTEON Xeno Collagen
+PDRN

Compaction Drilling





#16 bright Implant TL ø4.5×7.0
#17 bright Implant TL ø5.0×7.0

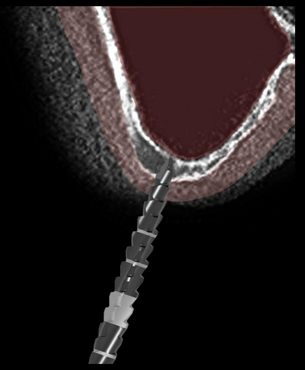


Virtual pano

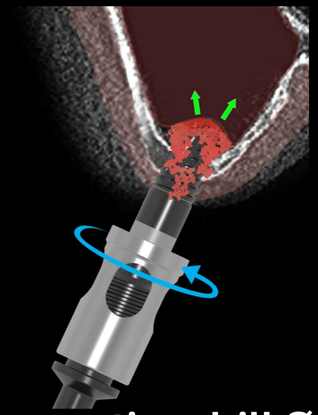
Crestal Approach

Residual bone height 1~3 mm

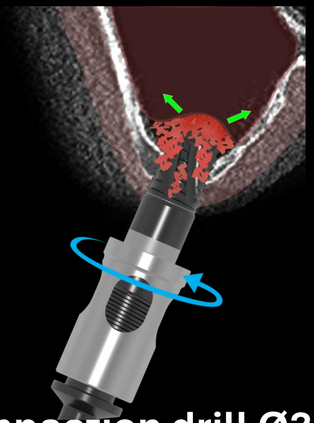
Dentium



Initial drilling

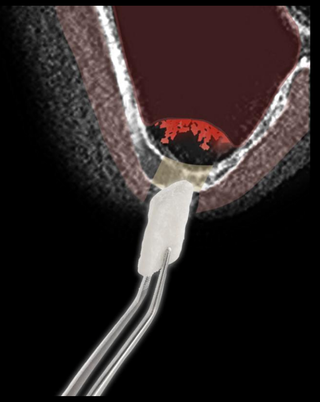


Compaction drill Ø3.0

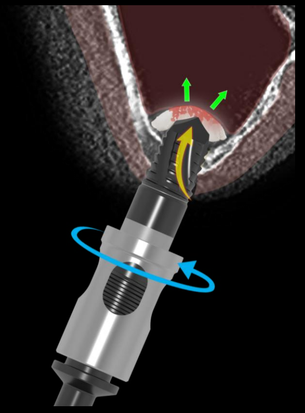


Compaction drill Ø3.5

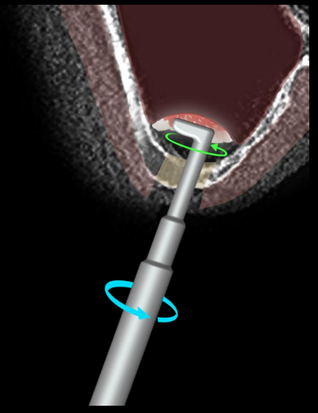
Membrane detaching



Collagen Graft x1D

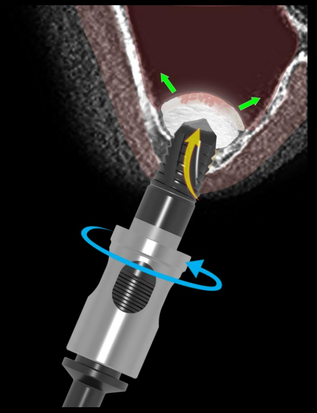


Lifting with Compaction drill

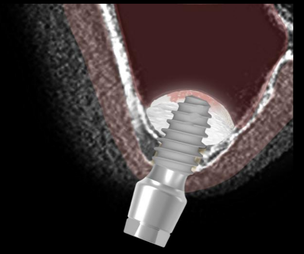


Spreading with Bone spreader

OSTEON™ Xeno Collagen

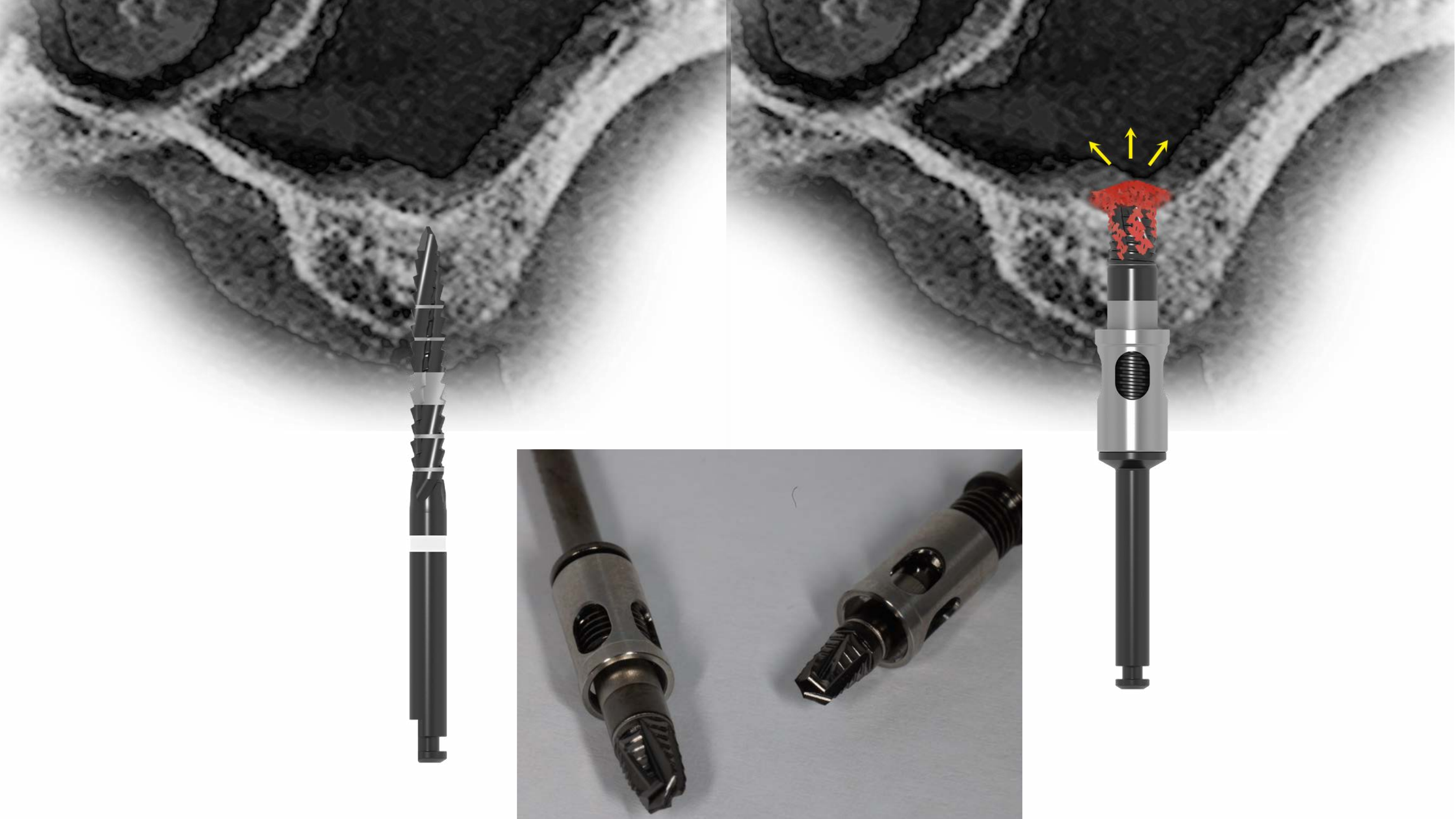


Lifting with Compaction drill



Implantation bright TL (Ø4.5 X 7.0)

➢ The **sinus membrane** can be safely elevated by **spreading** and **tenting** a **collagen graft**, which minimizes the risk of **membrane perforation** and facilitates controlled **sinus elevation**



226p Sinus hands-on VOD

Dentium

!

Auto bone chip lifting

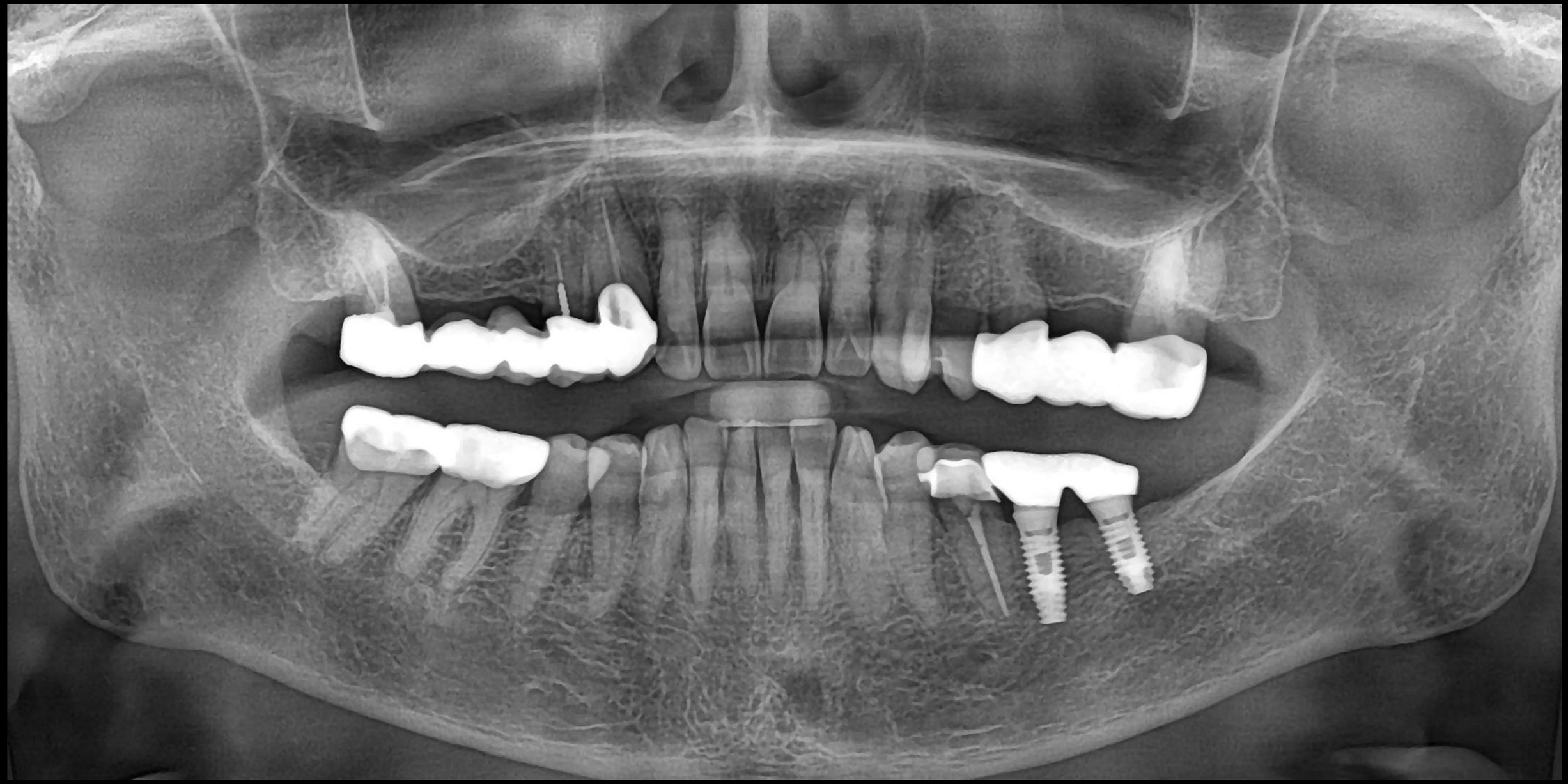
Crestal drill ∅ 3.0

50 rpm / 70 Ncm² without irrigation

** 226p Sinus Hands-on VOD 1

Crestal Approach with DASK Simple
Dentium Dental Clinic
Dr. SM Chung
** 227p Crestal approach VOD 1

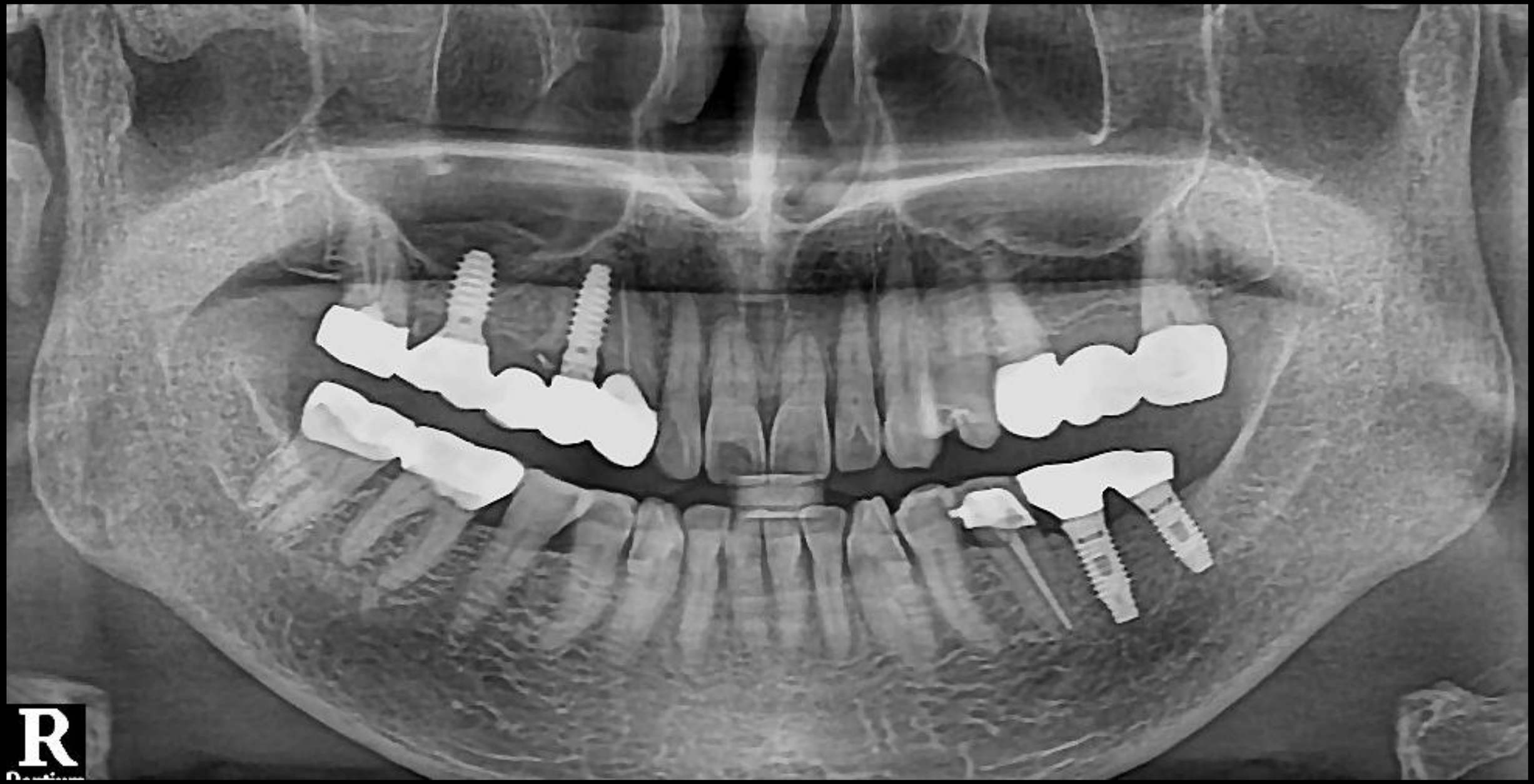
Oral exam (2024-08-28)



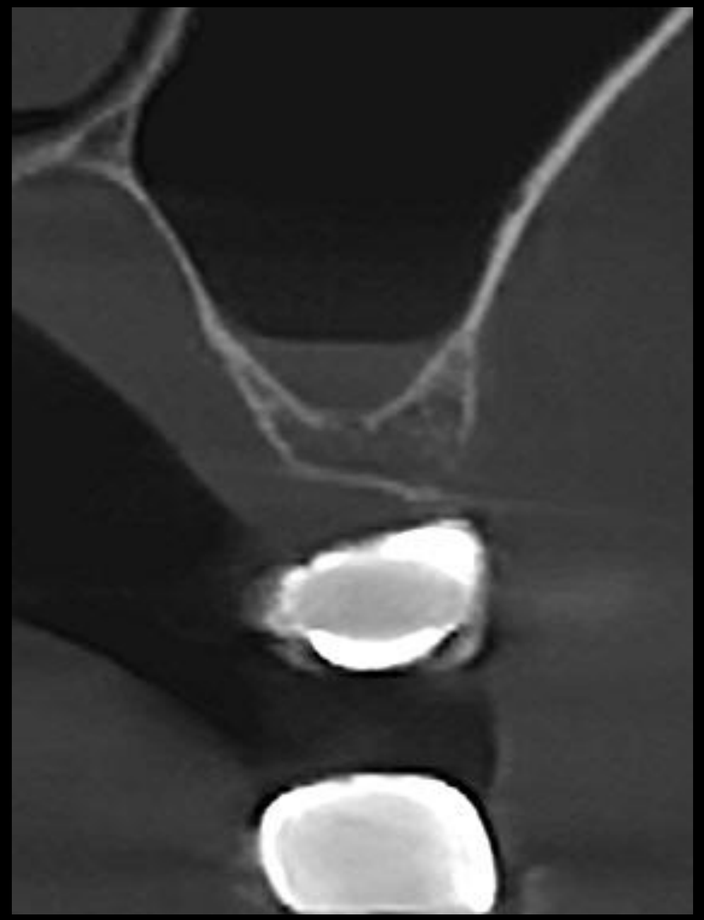
Post-op (2024-10-02)

Final prosthesis (2025-02-21)

Follow up : 6 months (2025-08-22)



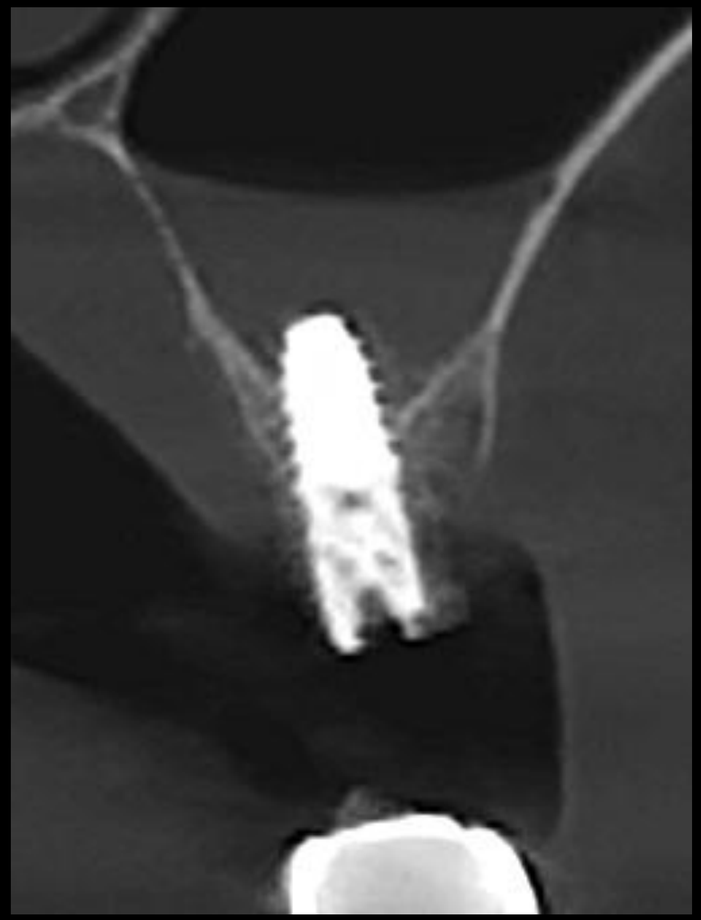
Pre-op CT (2024-09-25)



#16

#14

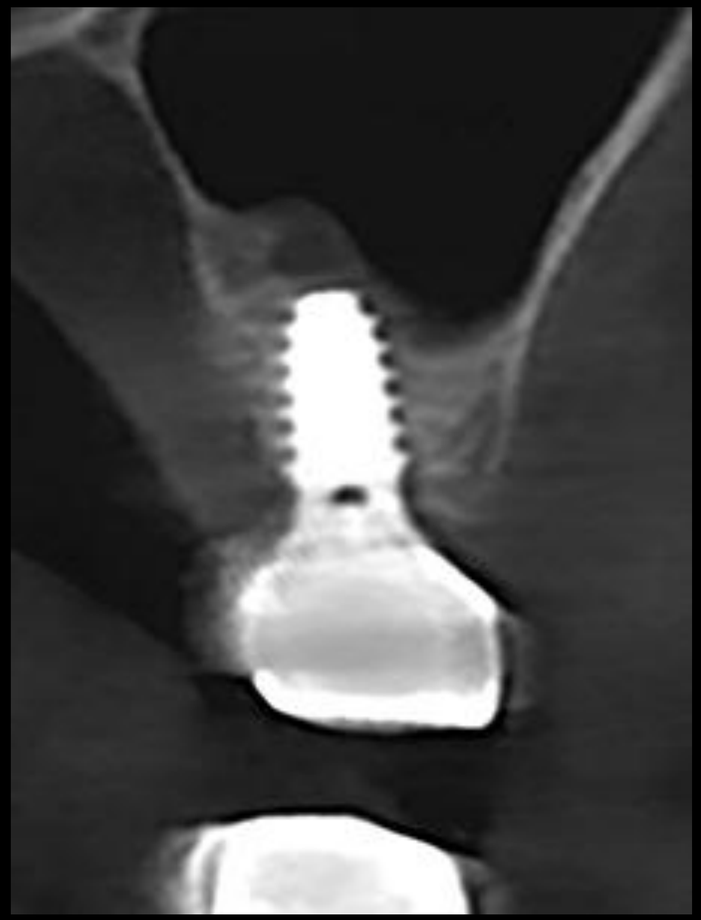
Post-op CT (2024-09-25)



#16

#14

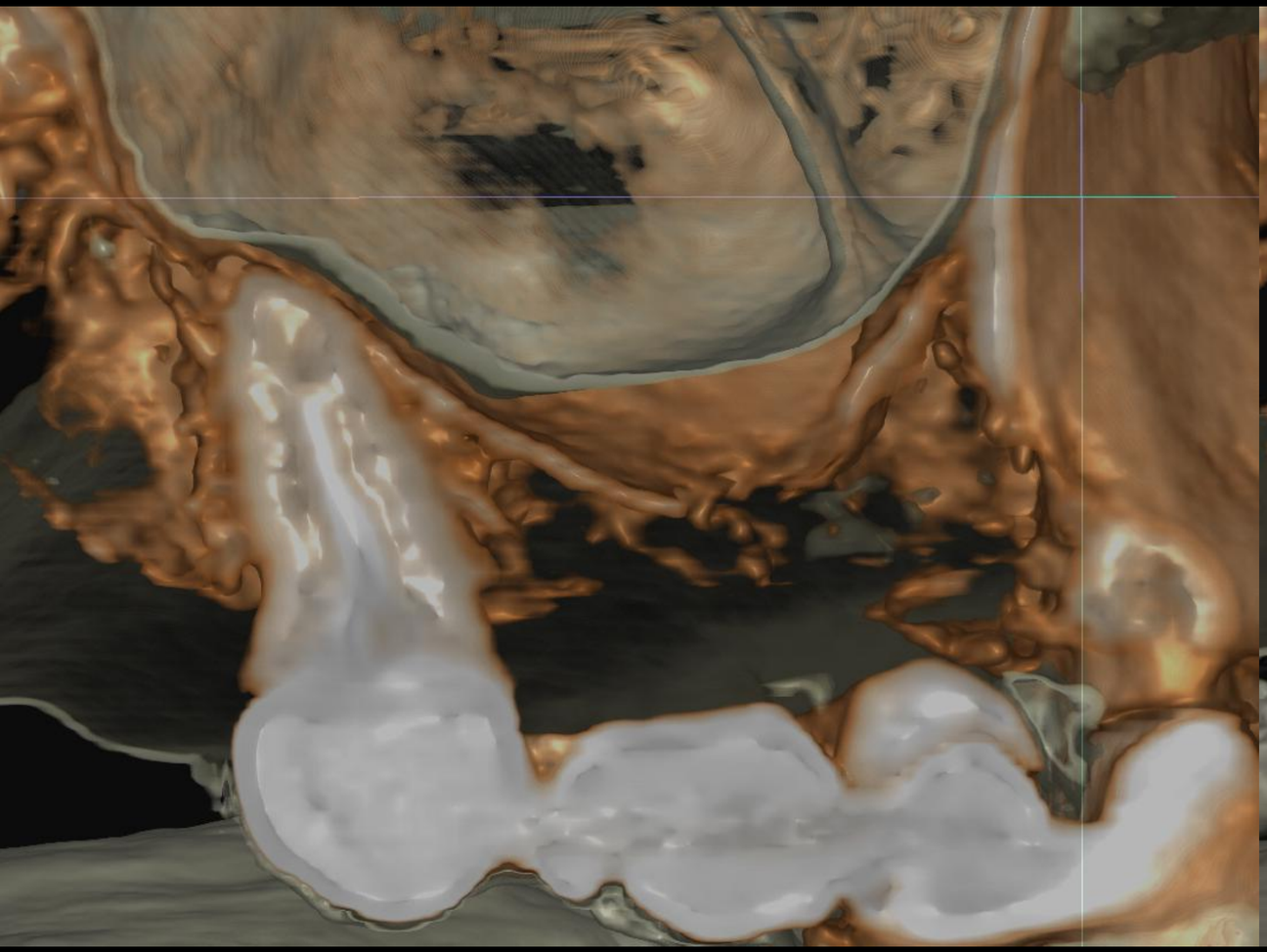
Follow up CT : 6 months (2025-08-22)



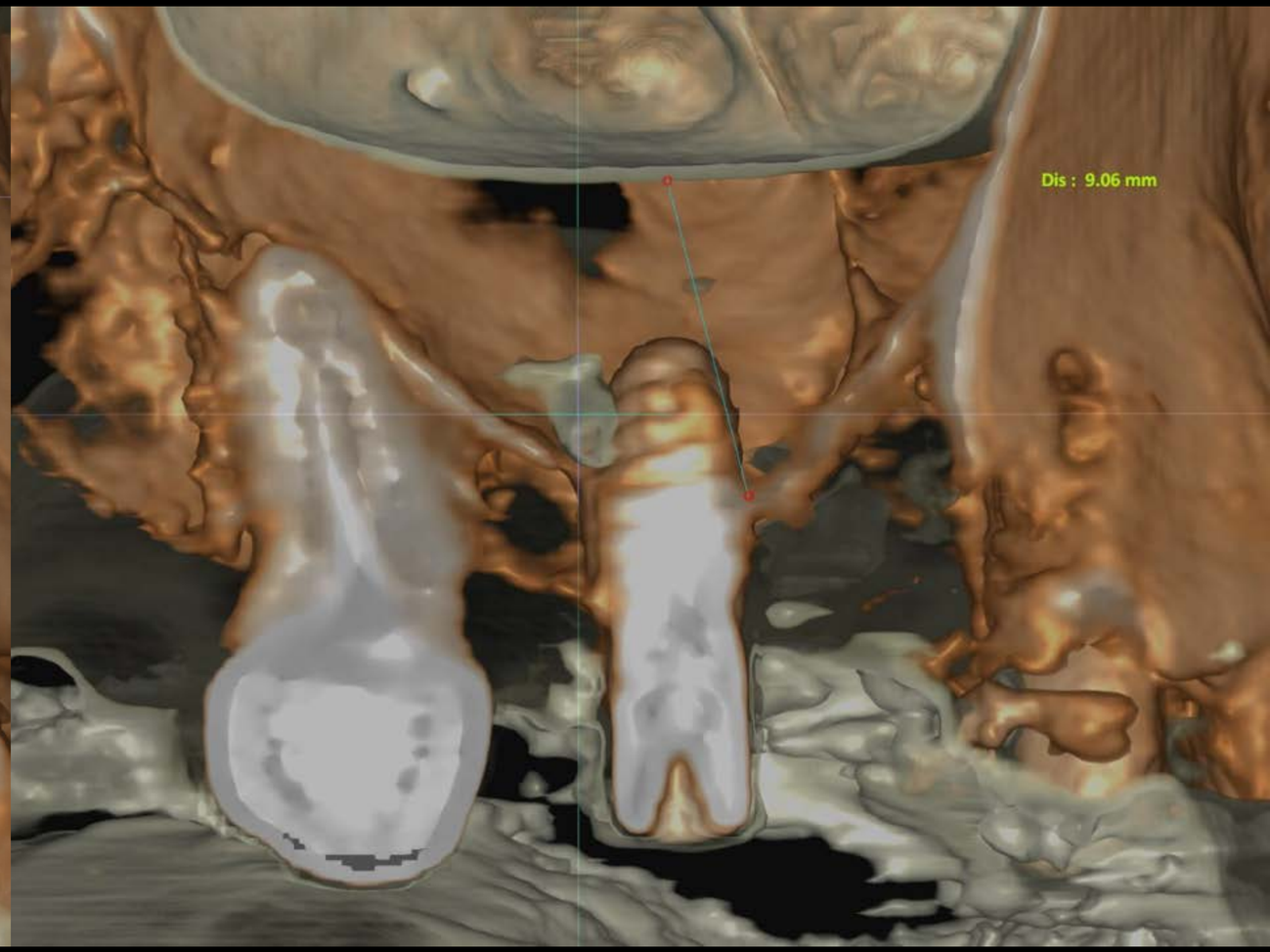
#16

#14

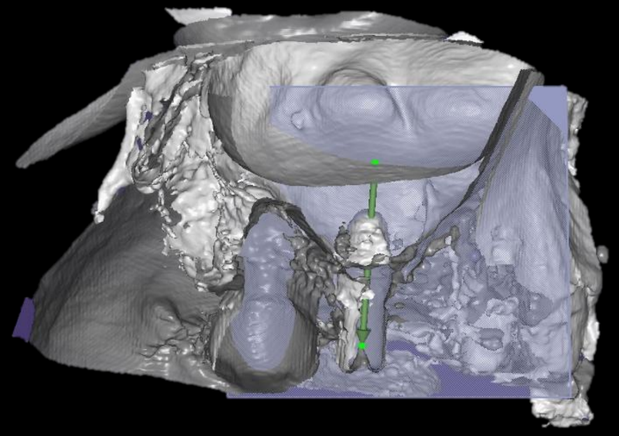
Pre-op CT (2024-09-25)

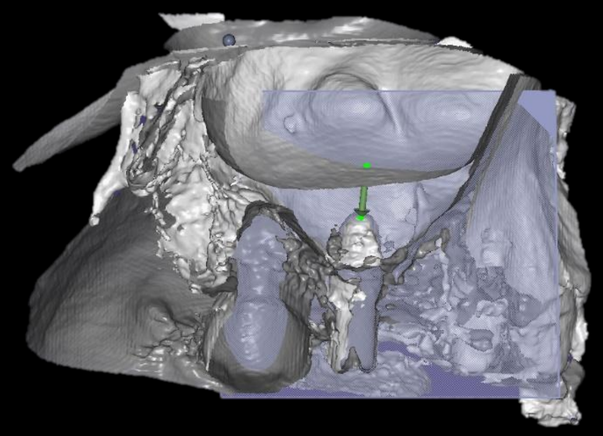


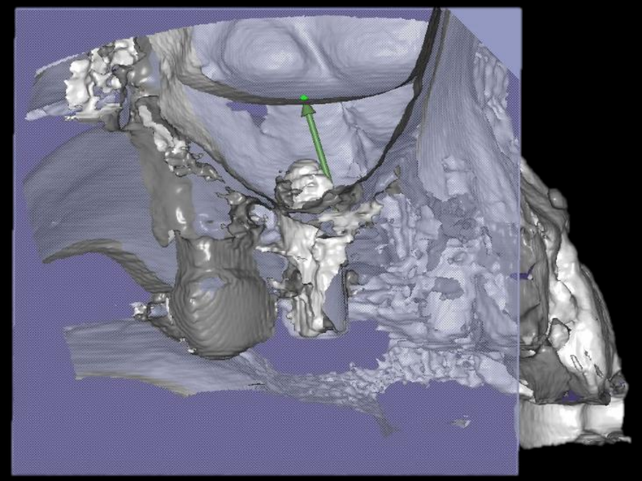
Post-op CT (2024-09-25)

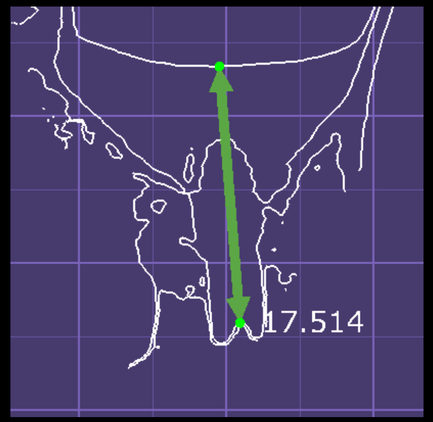


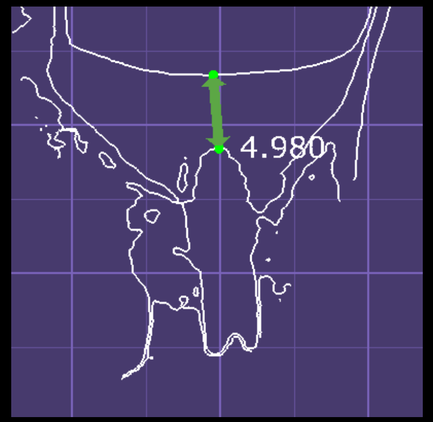
CAD (Sinus measurement) (2024-09-25)

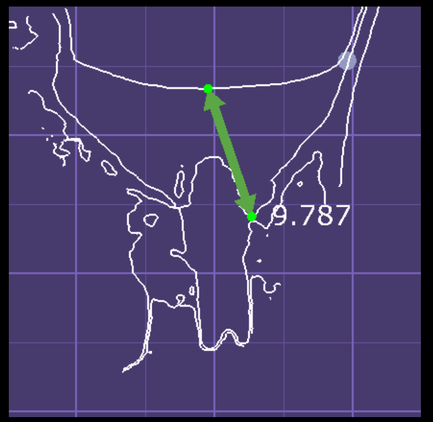




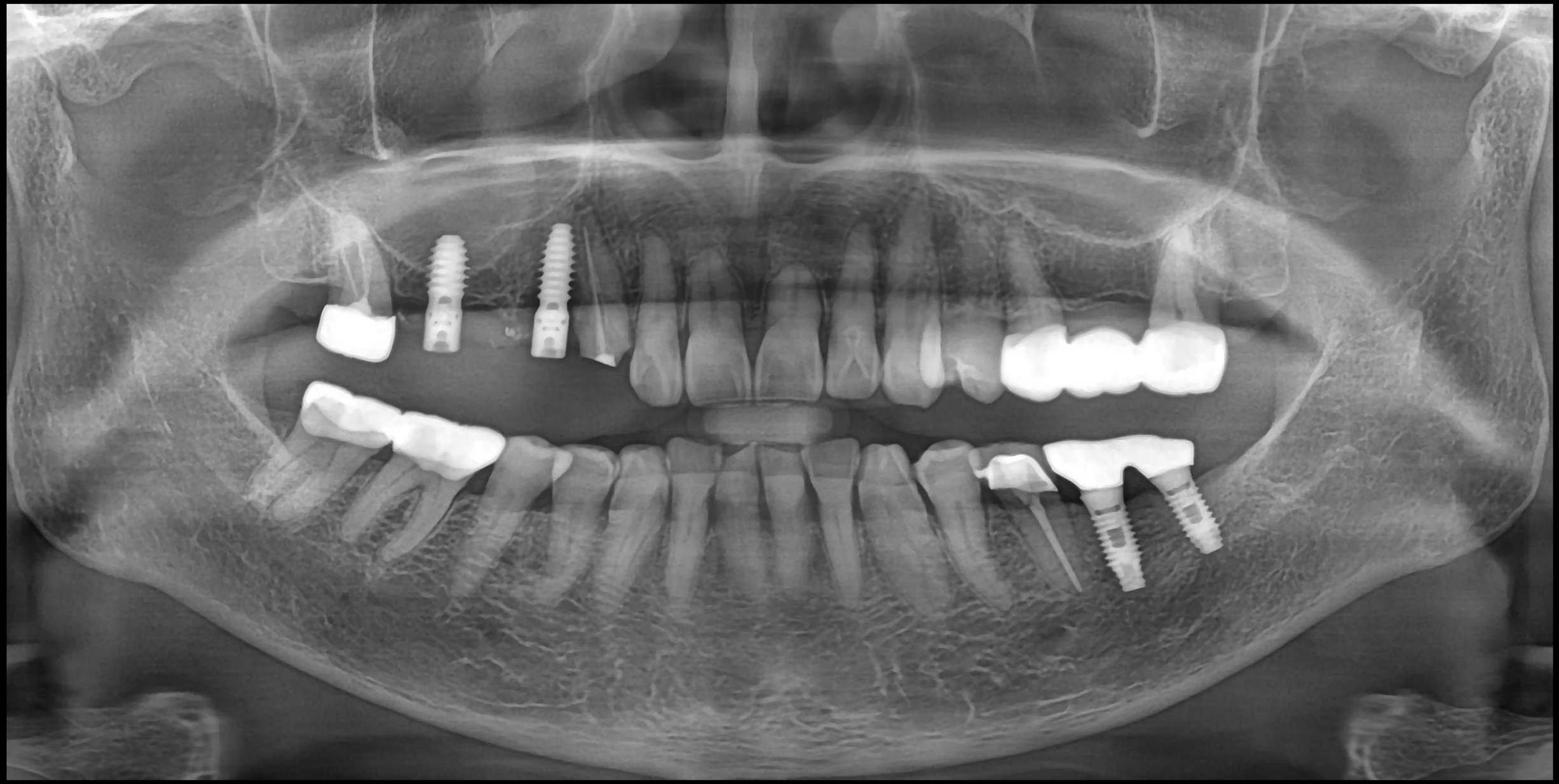






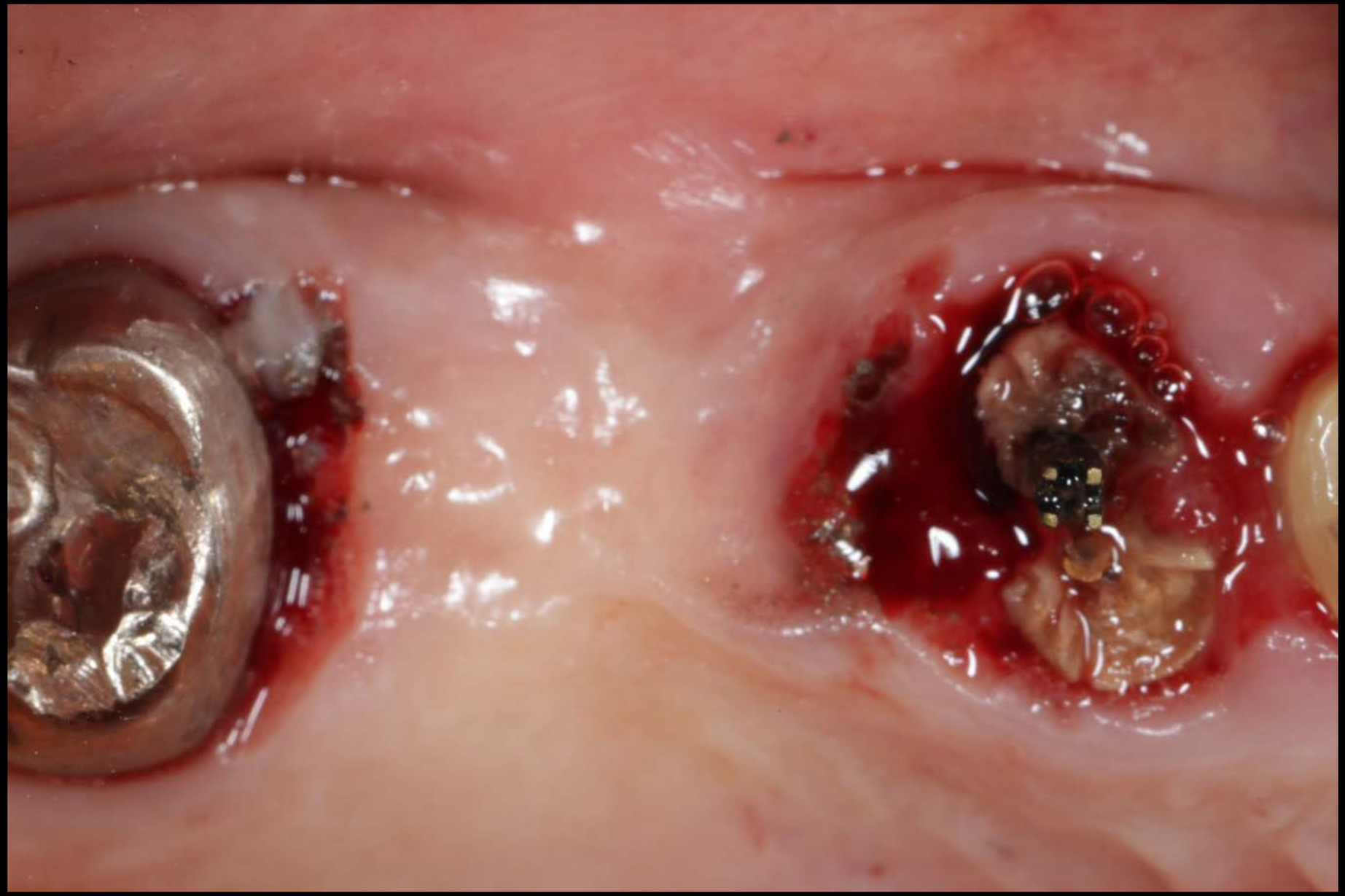


Post-op (2024-10-02)

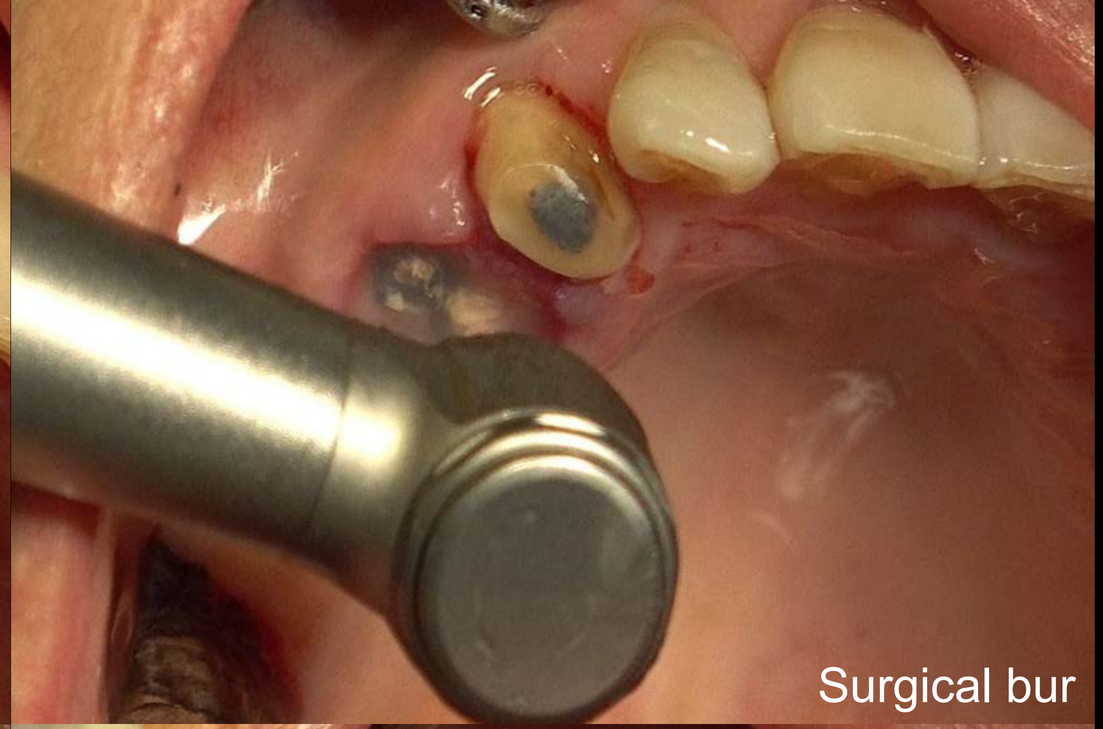


Final prosthesis (2025-02-21)

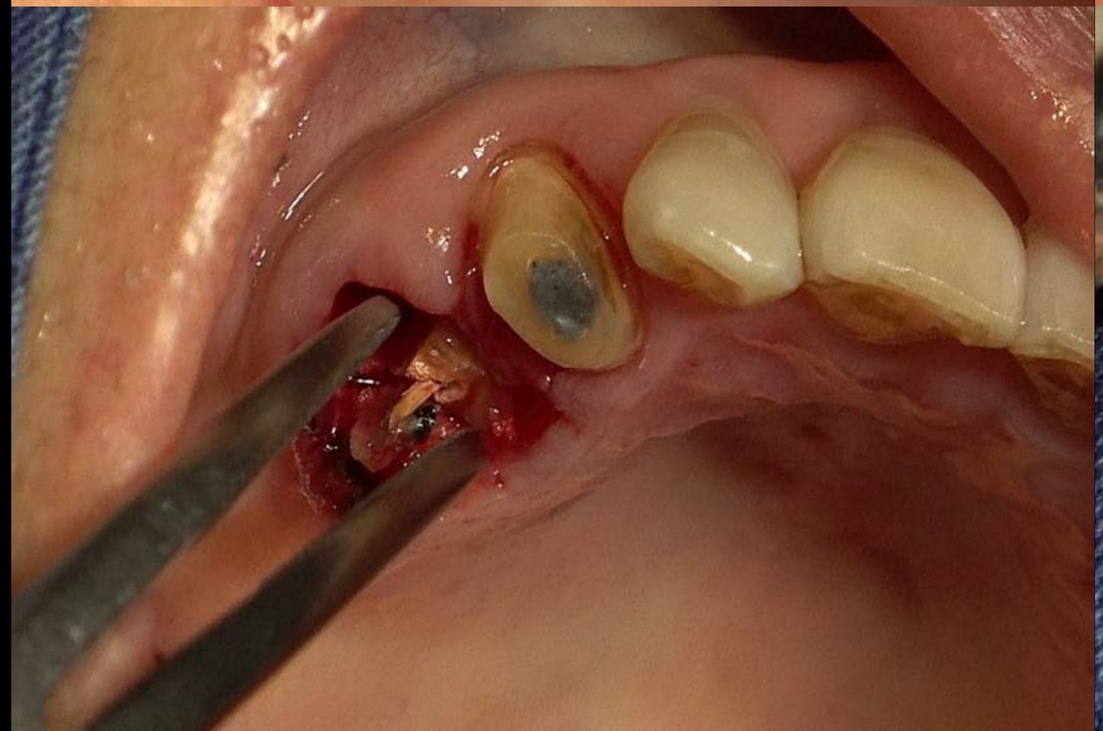
Pre-op (2024-09-25)

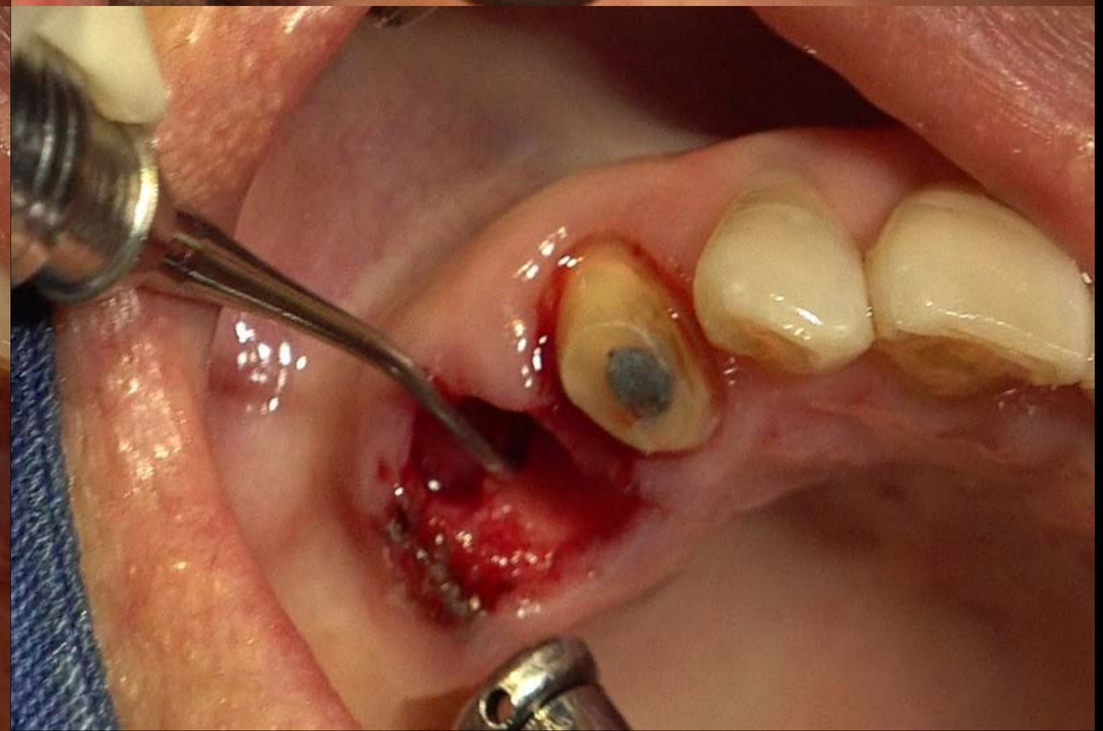


Surgery (2024-09-25)

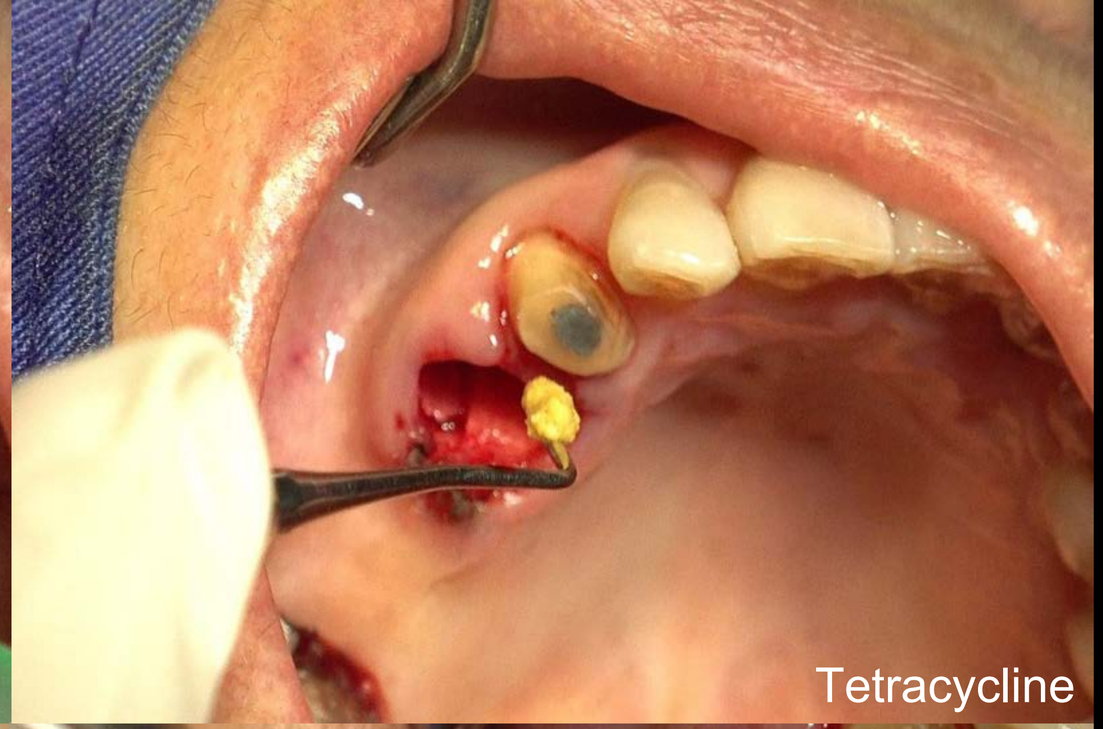


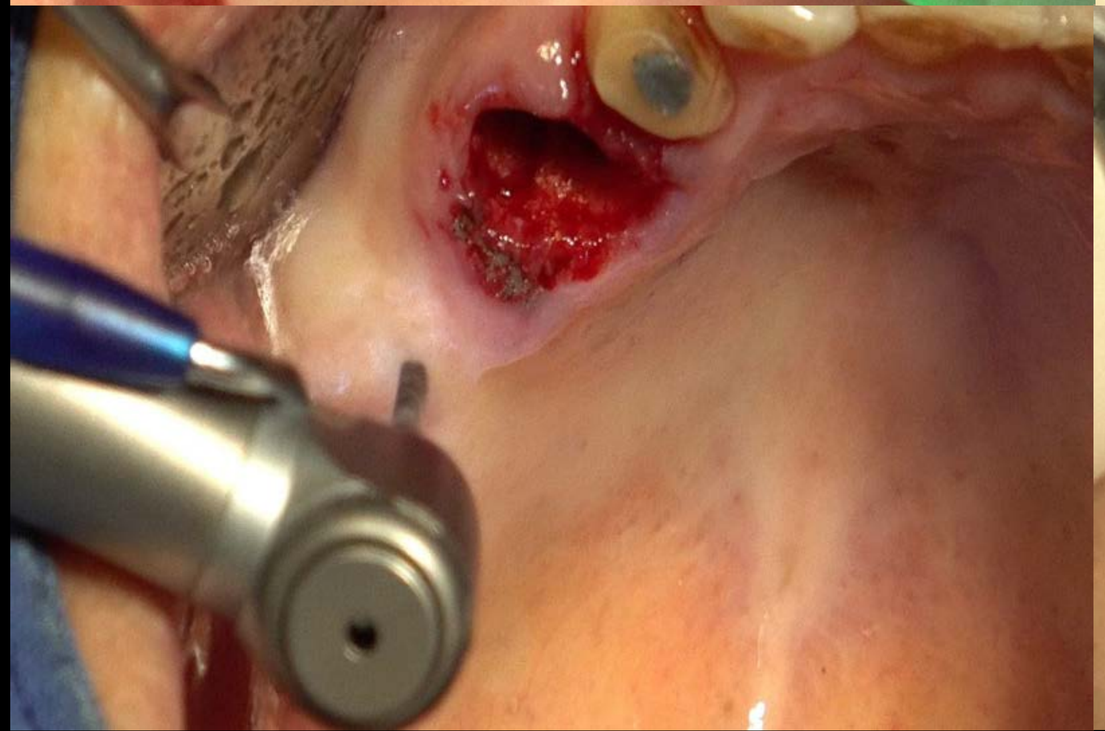
Surgical bur

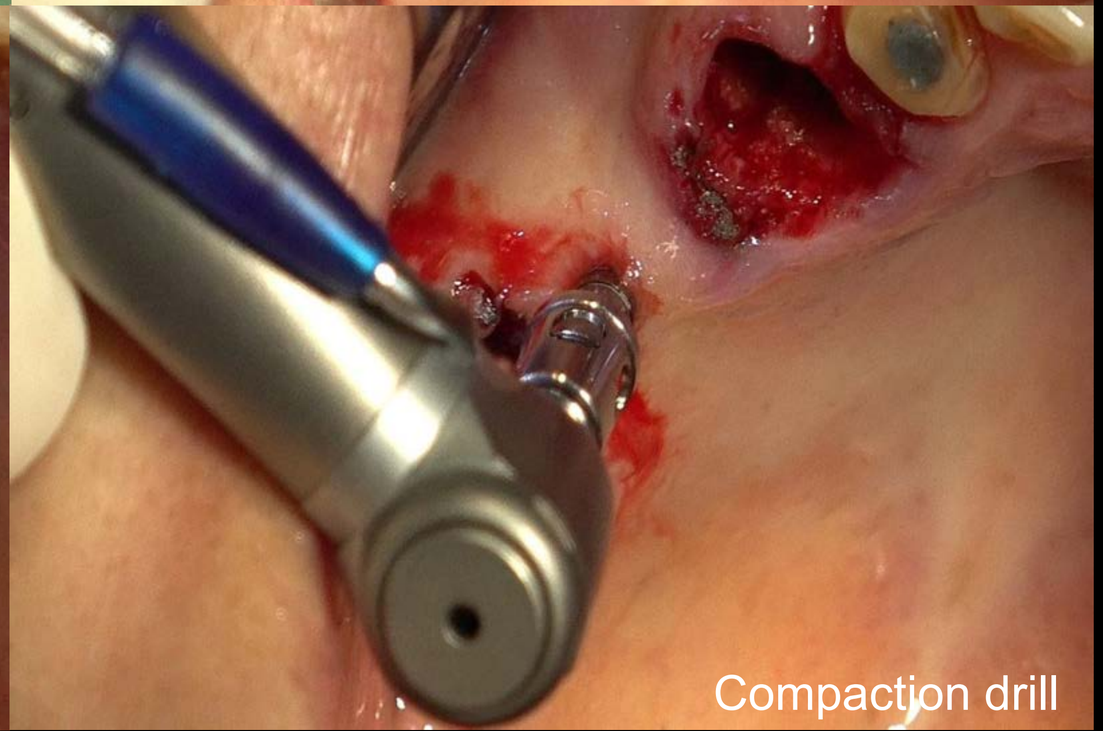




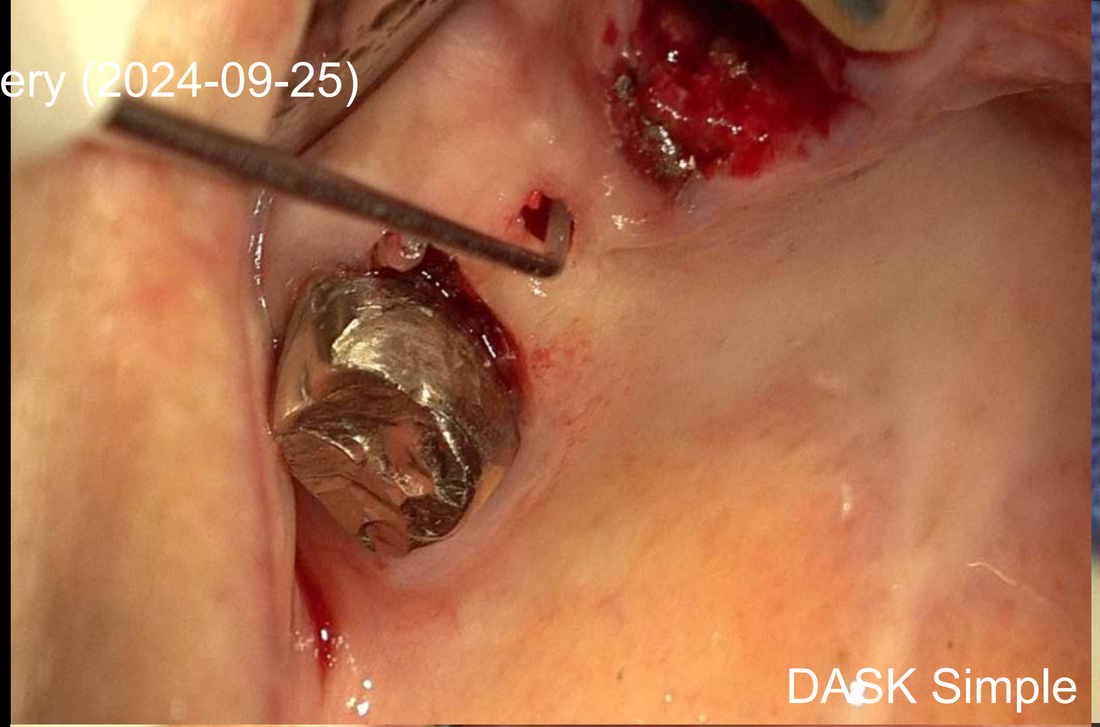
Surgery (2024-09-25)



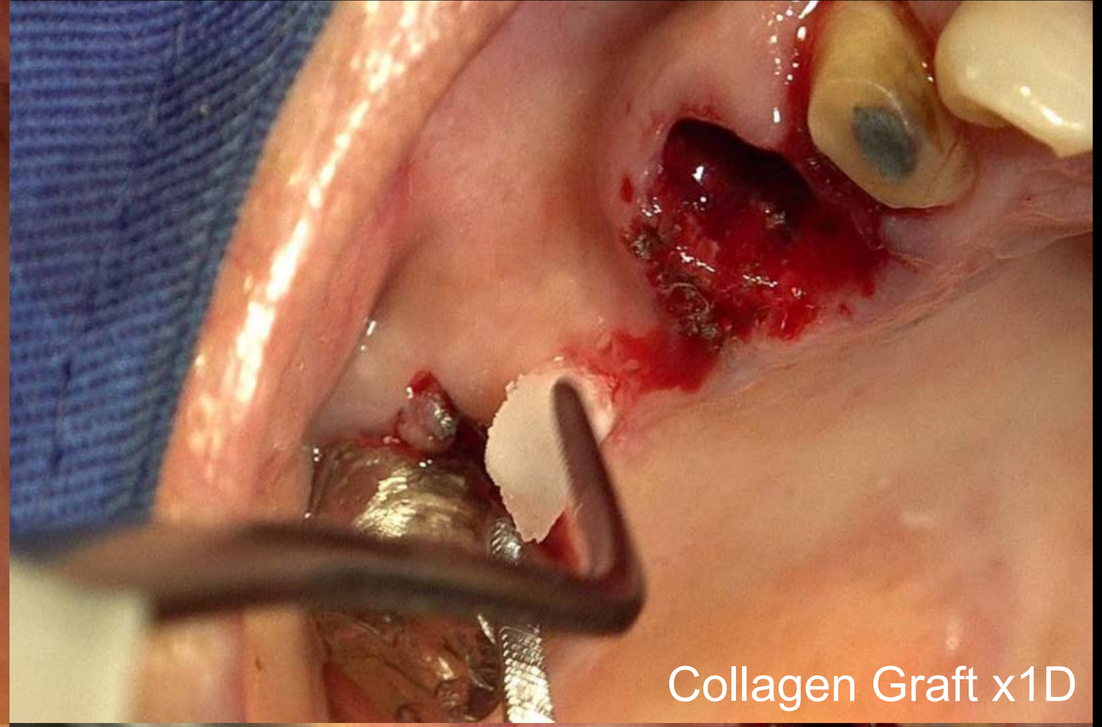




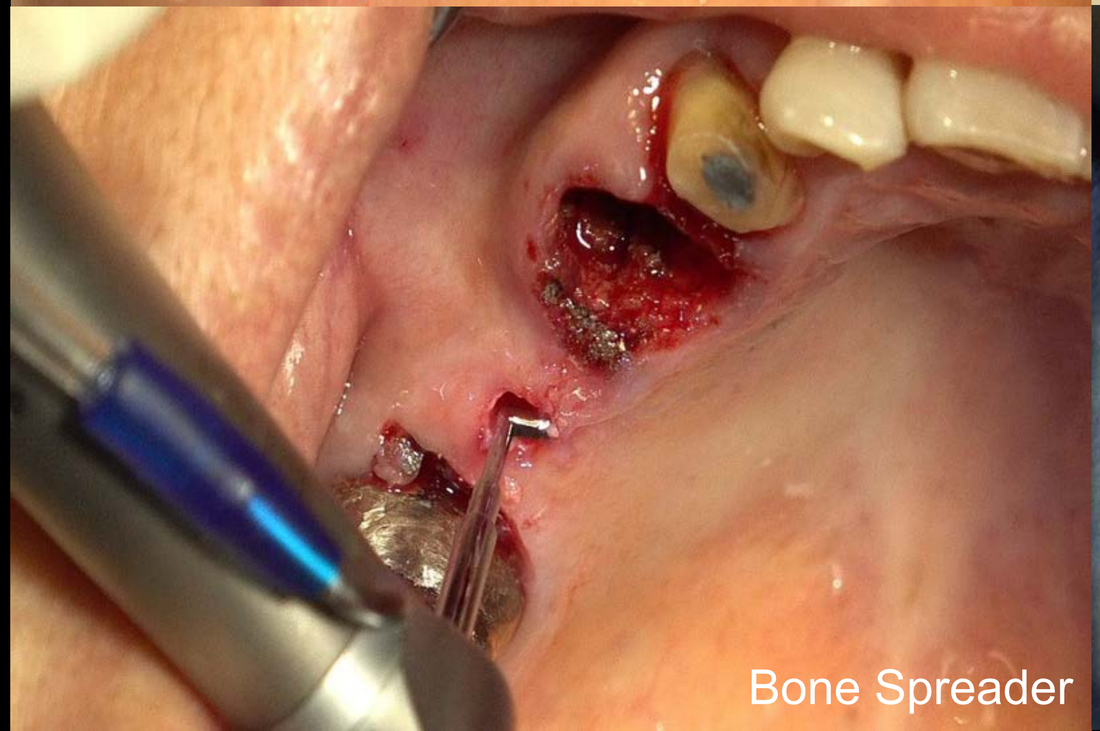
Surgery (2024-09-25)



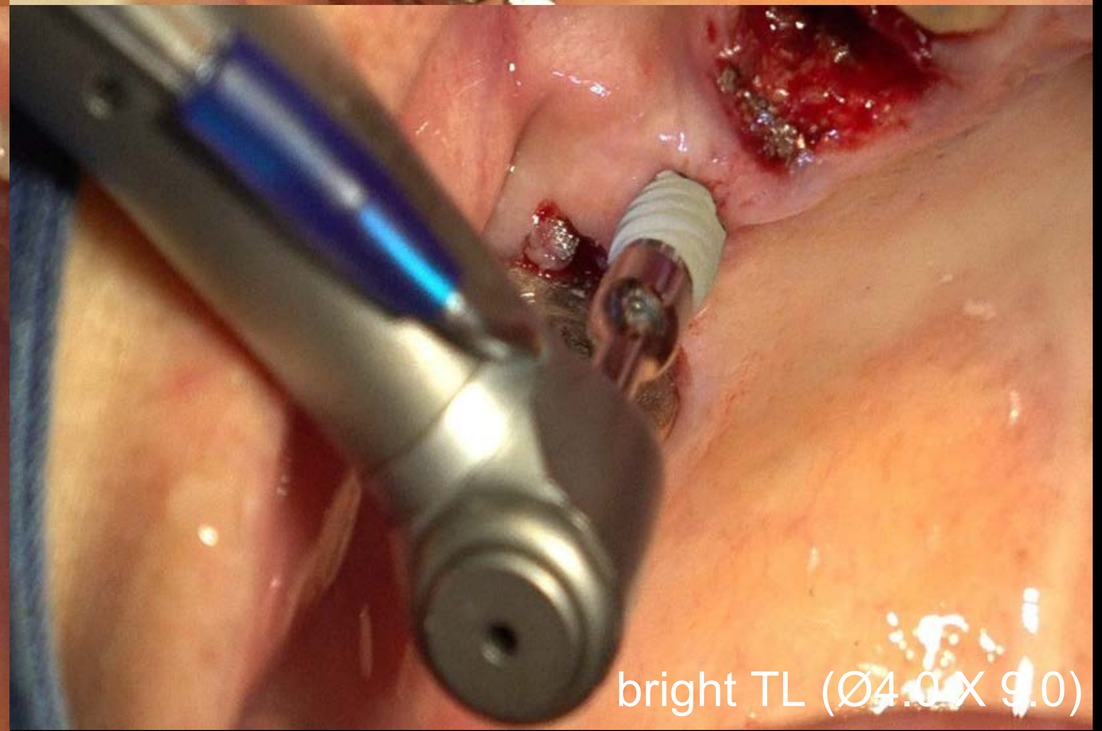
DASK Simple



Collagen Graft x1D

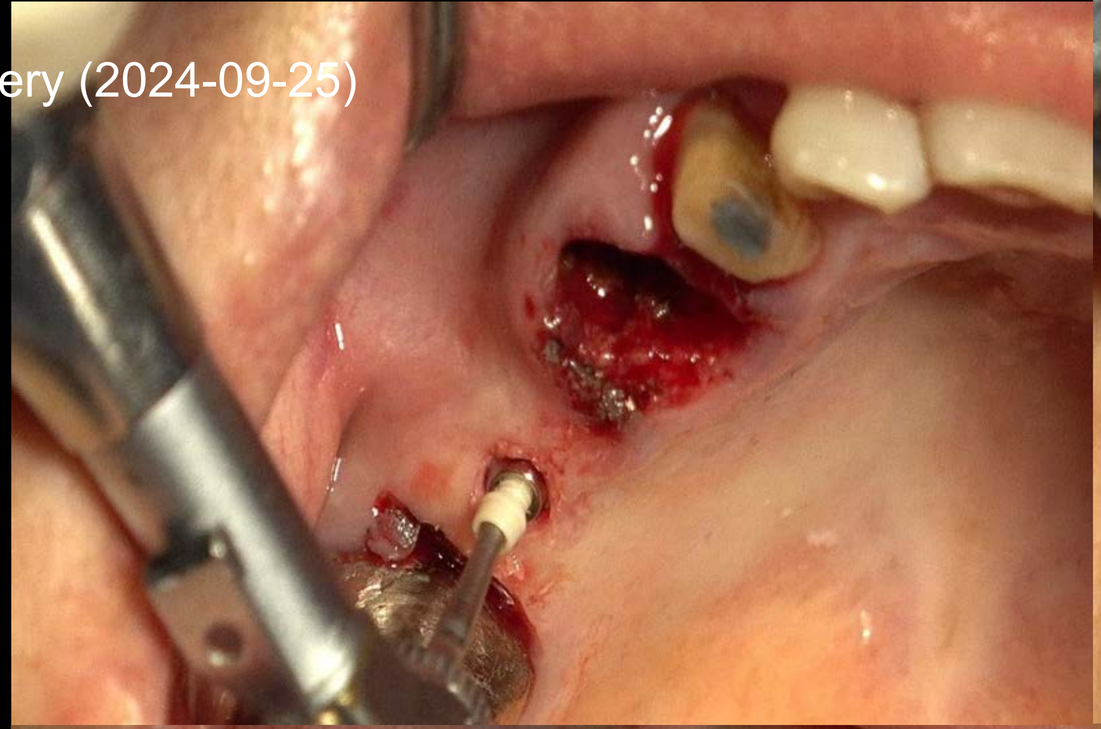


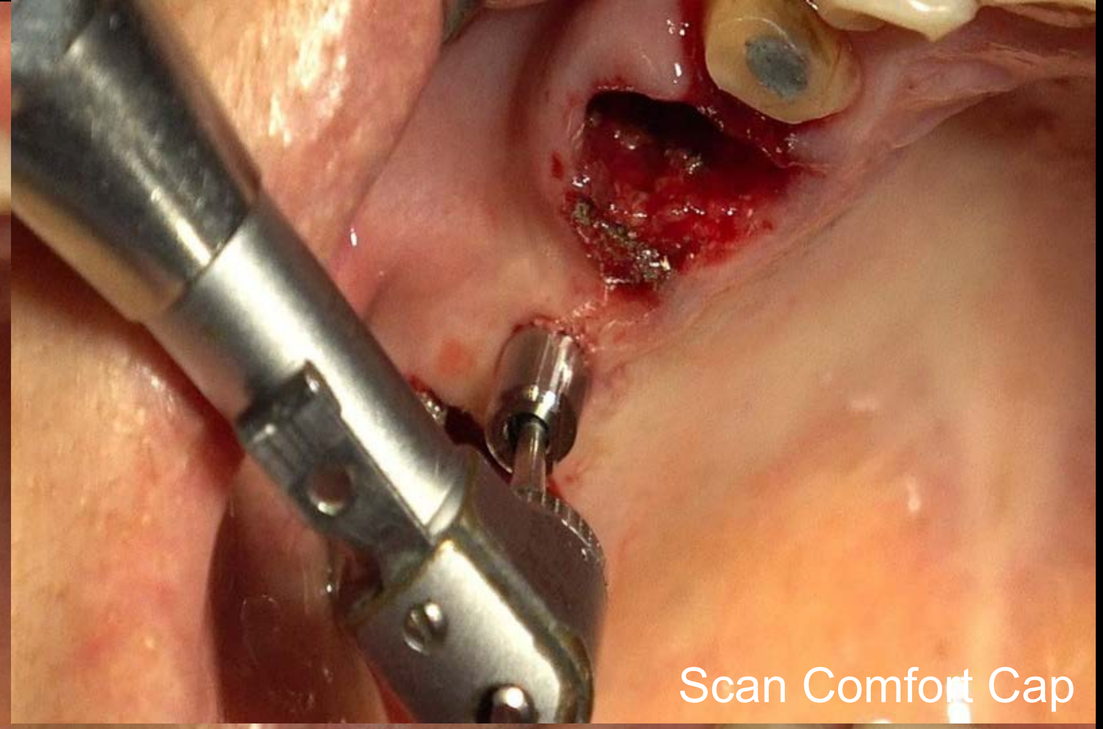
Bone Spreader



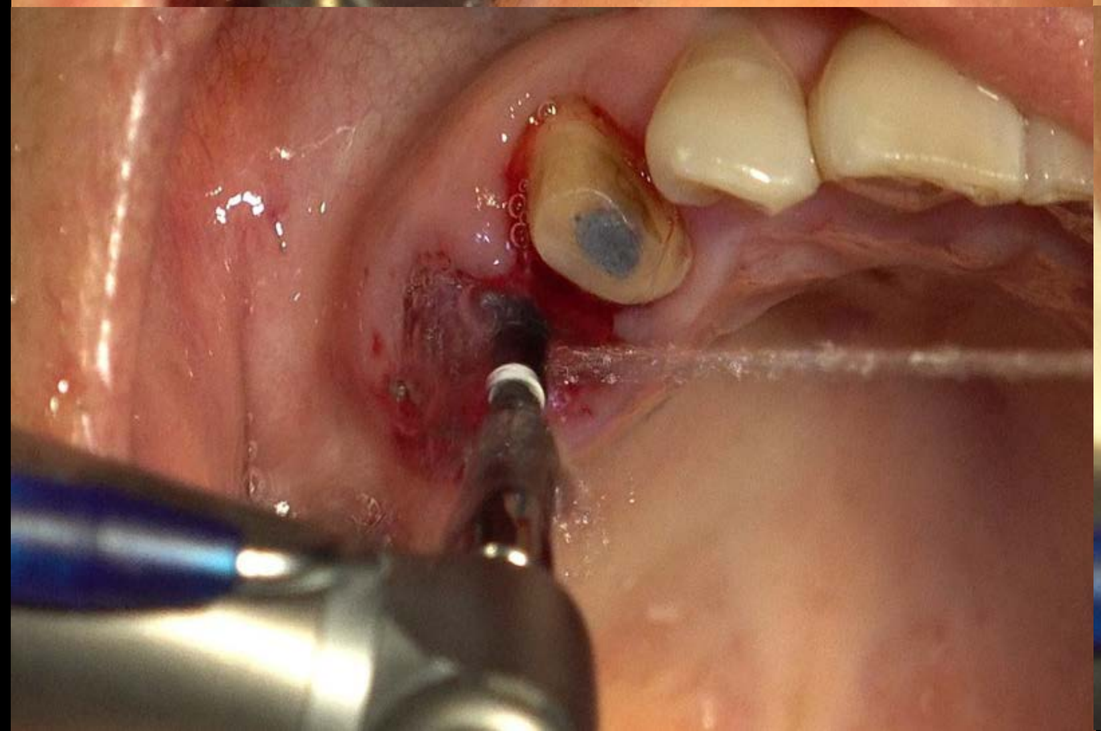
bright TL (Ø4.0 X 9.0)

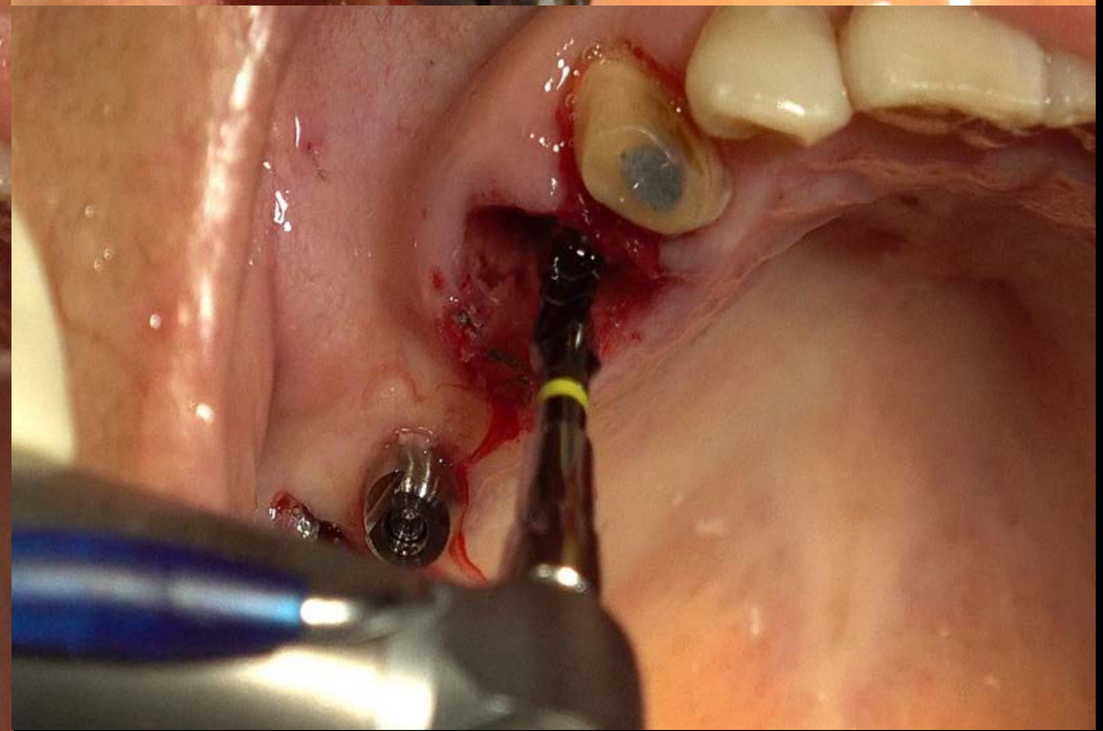
Surgery (2024-09-25)



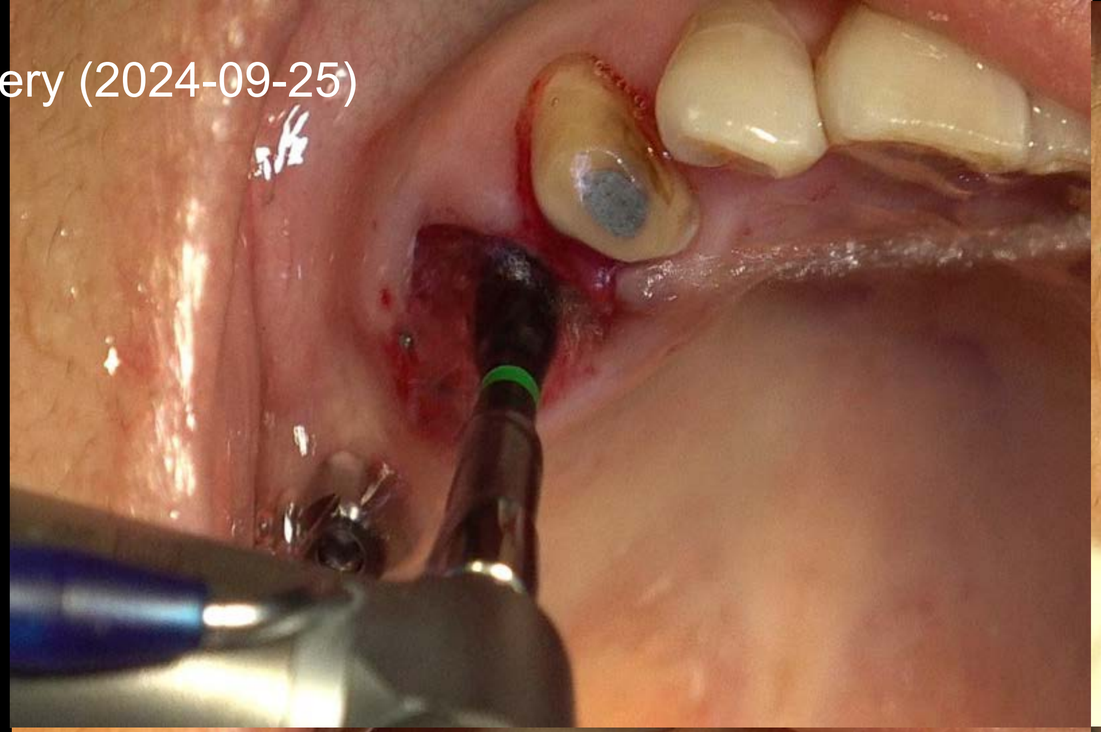


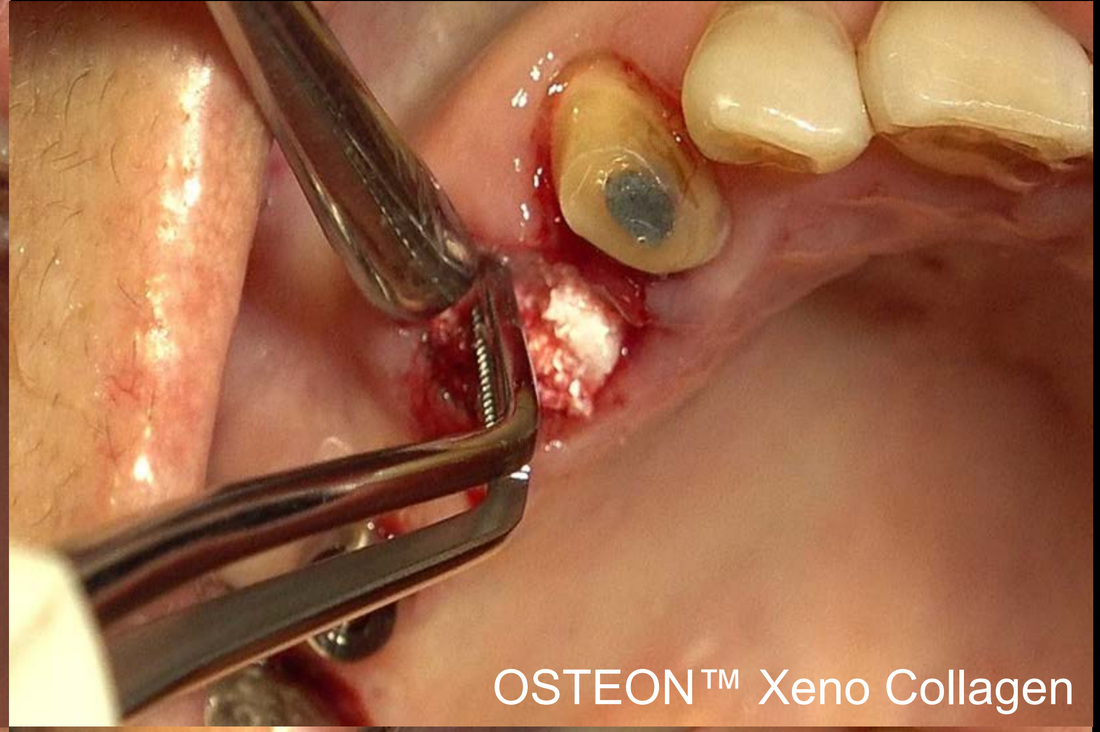
Scan Comfort Cap



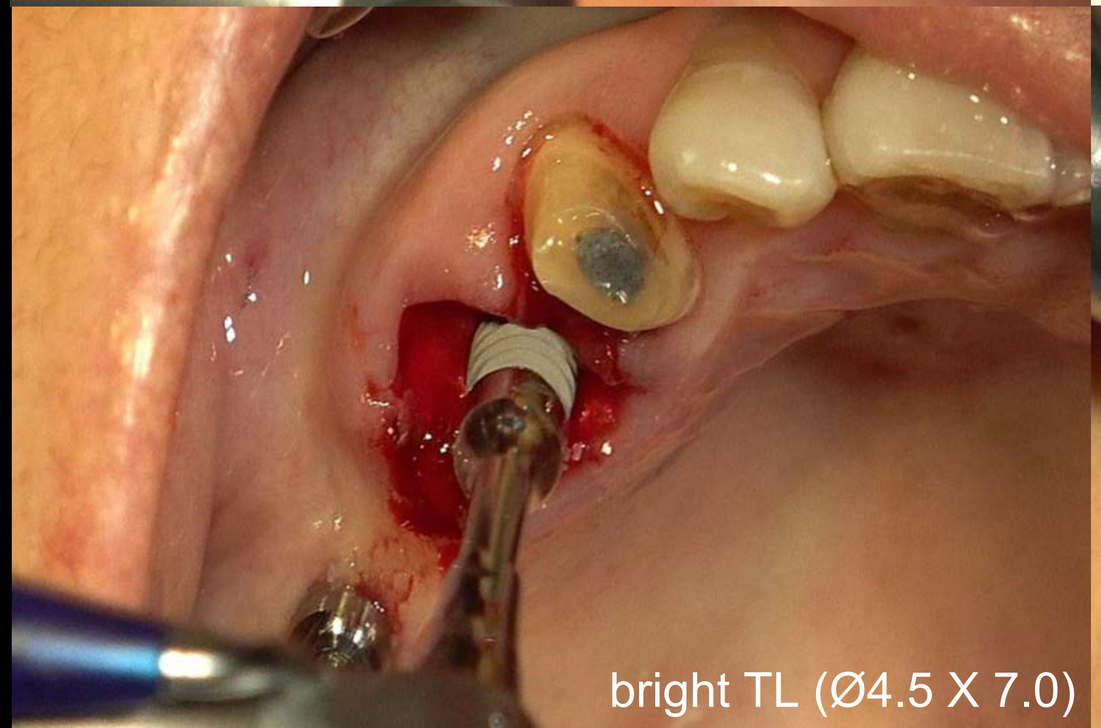


Surgery (2024-09-25)

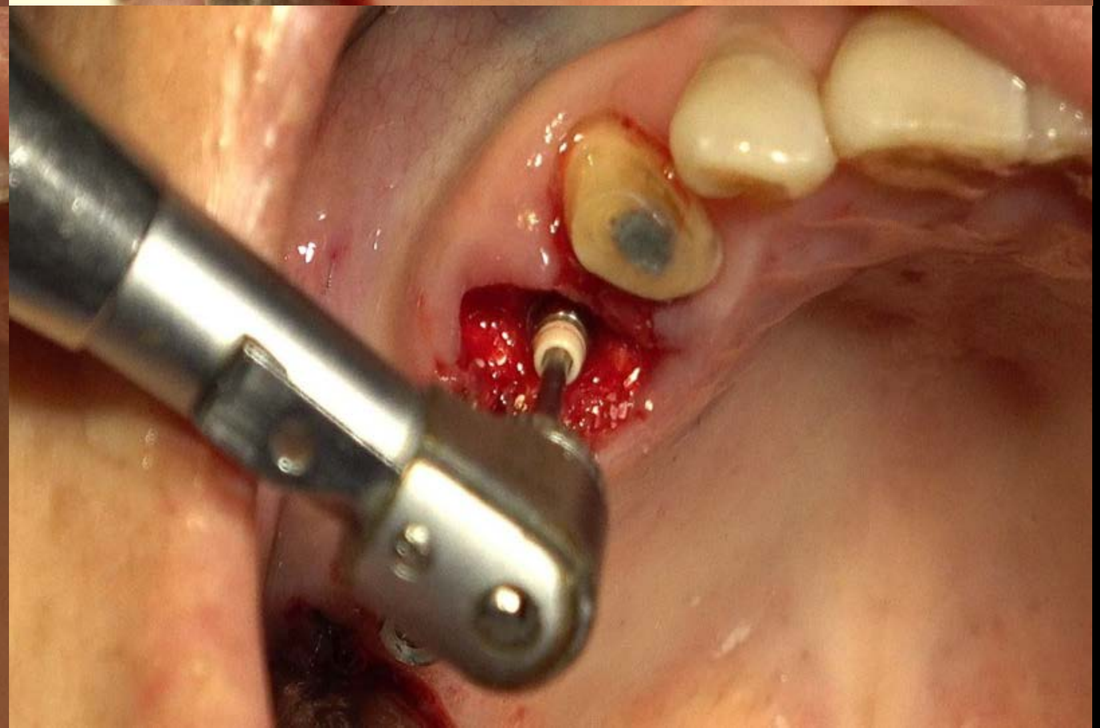




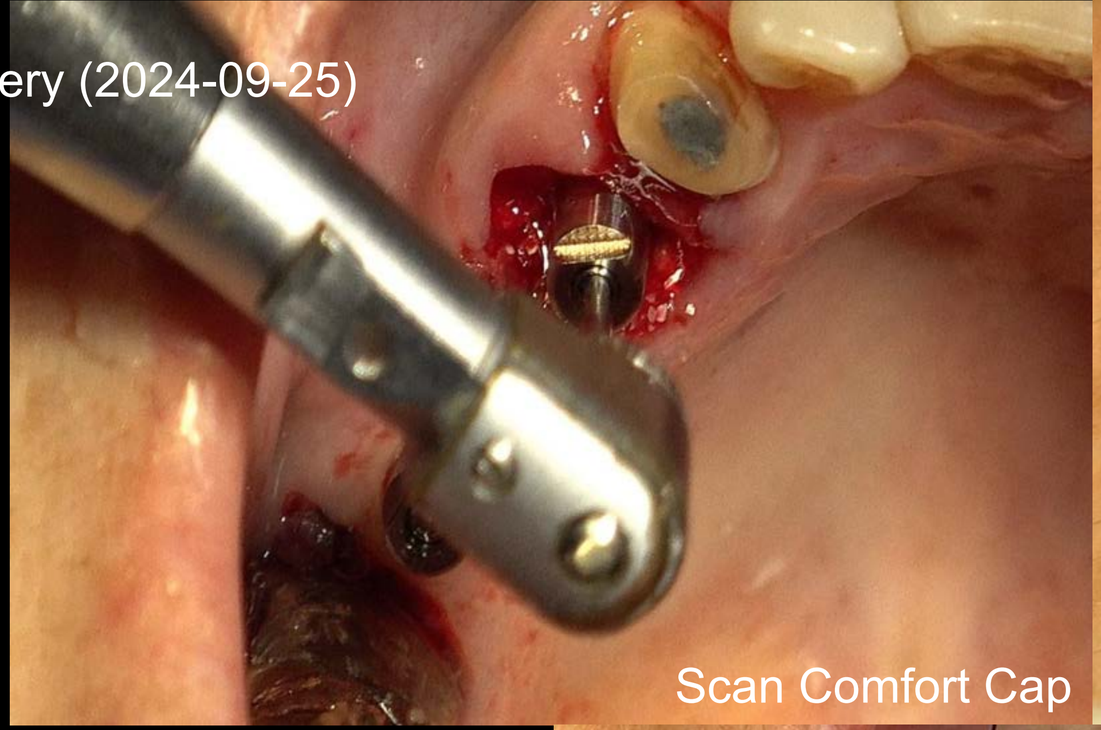
OSTEON™ Xeno Collagen



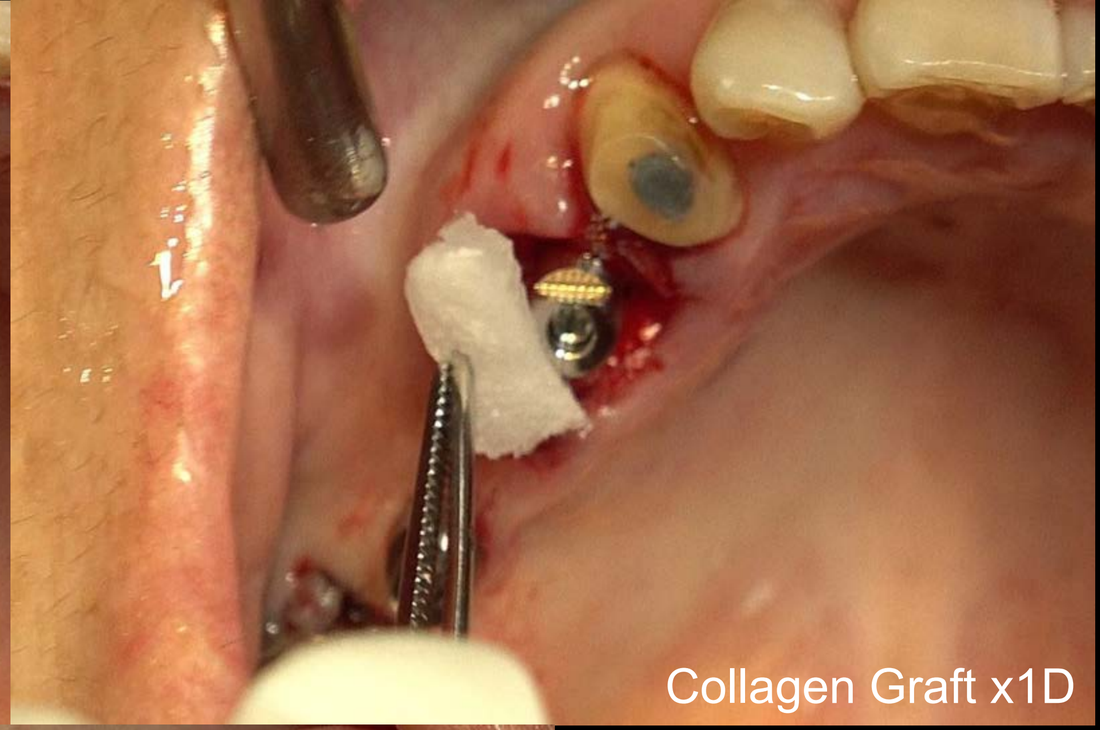
bright TL (Ø4.5 X 7.0)



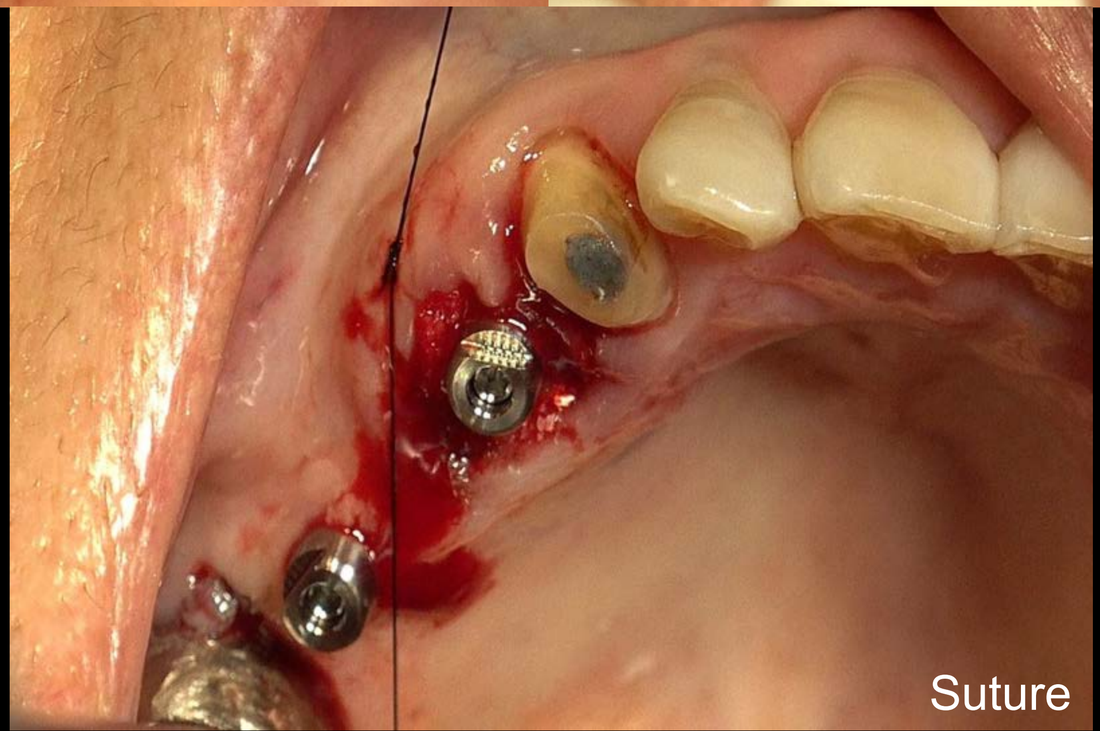
Surgery (2024-09-25)



Scan Comfort Cap

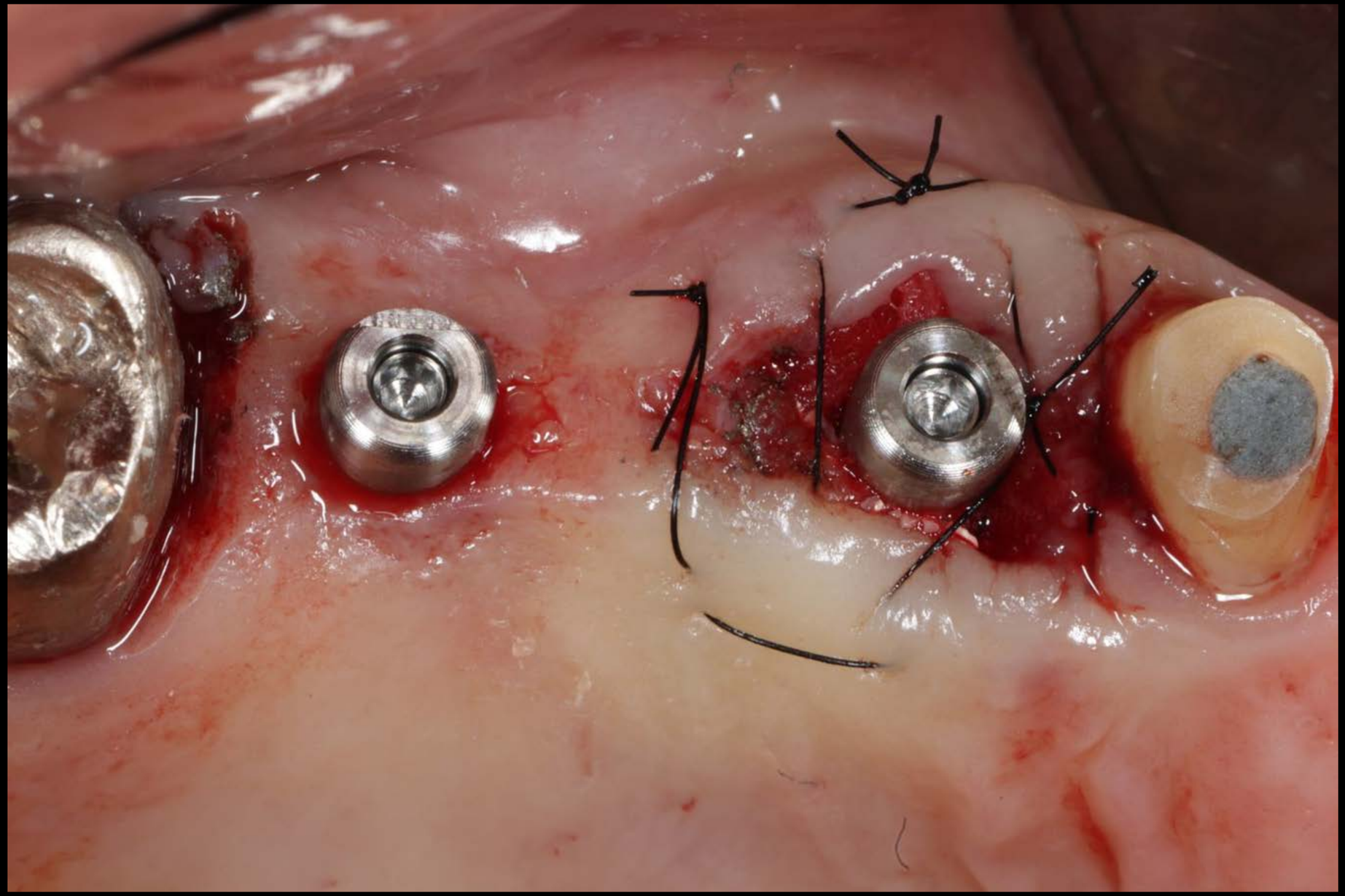


Collagen Graft x1D

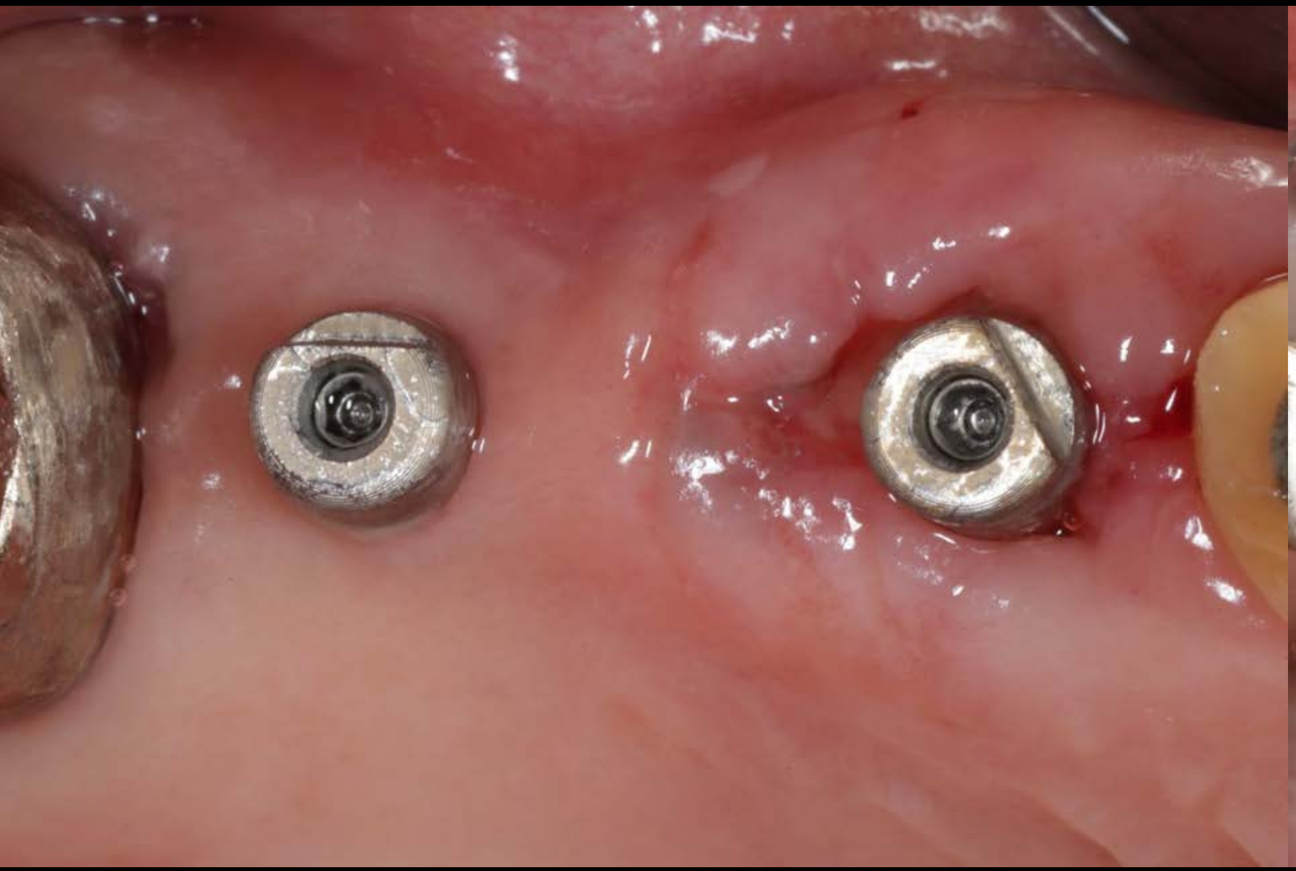


Suture

Post-op (2024-09-25)

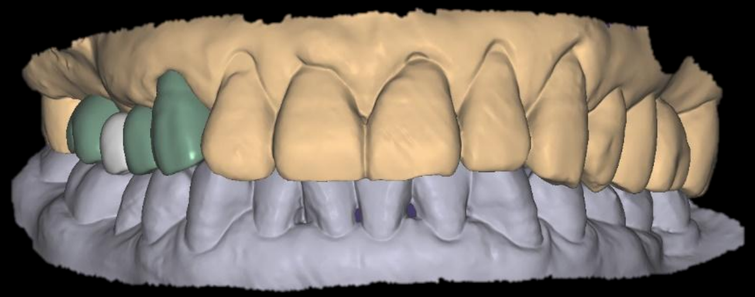


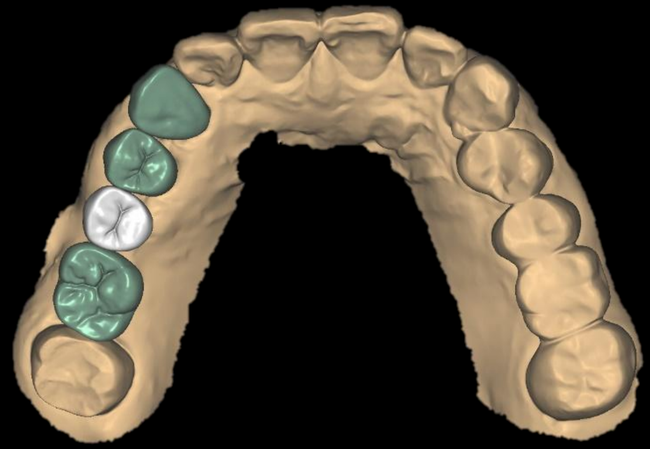
Healing : 1 week (2024-10-02)

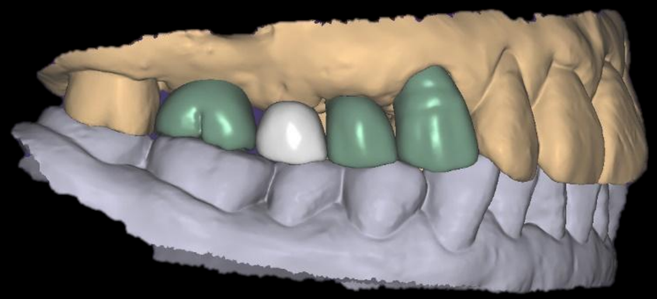


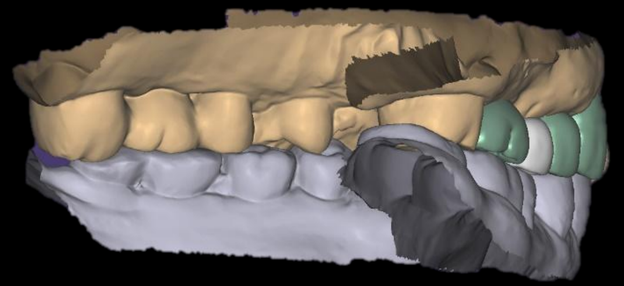
Intra Oral Scan

CAD (Temporary)



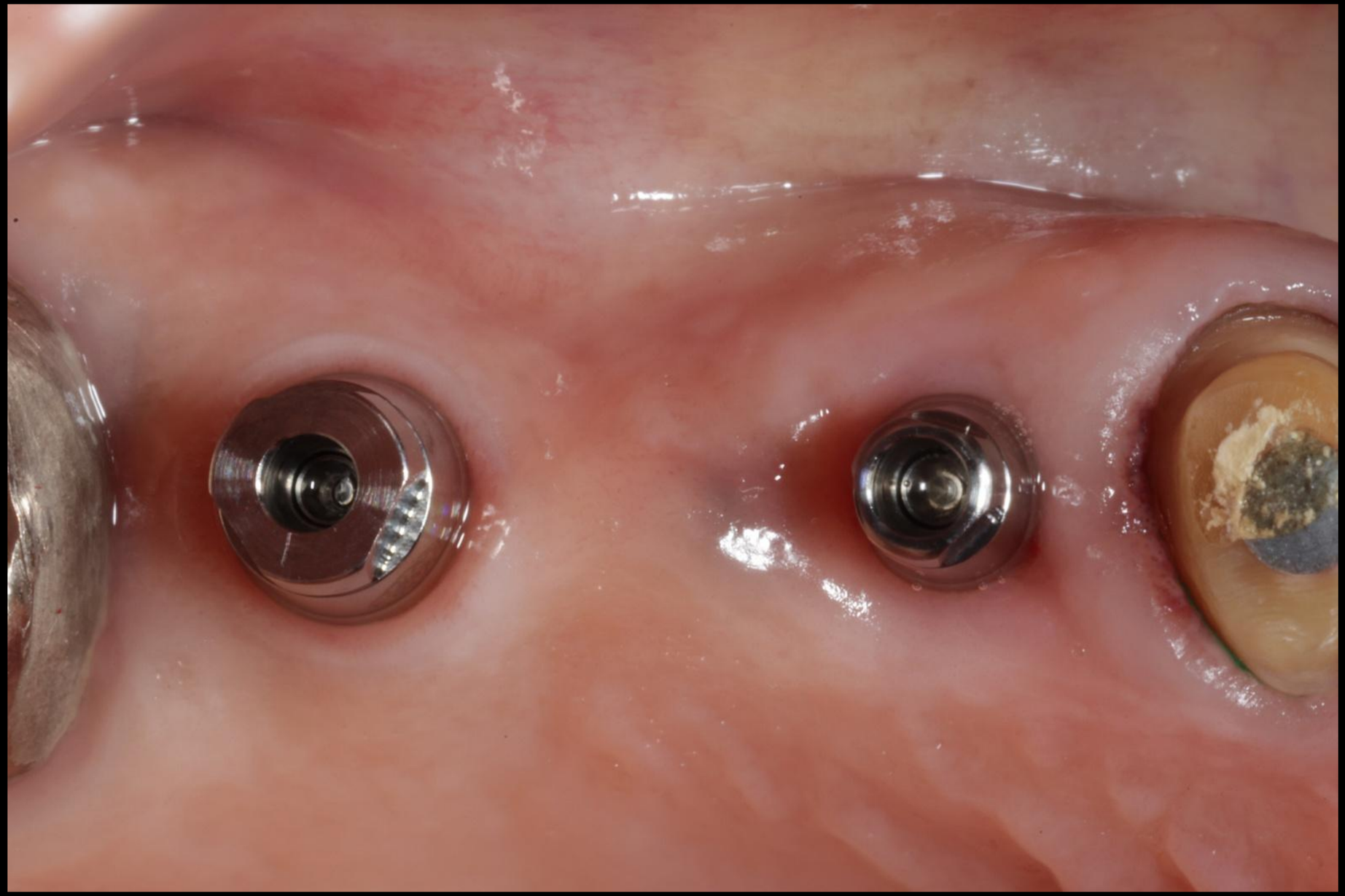






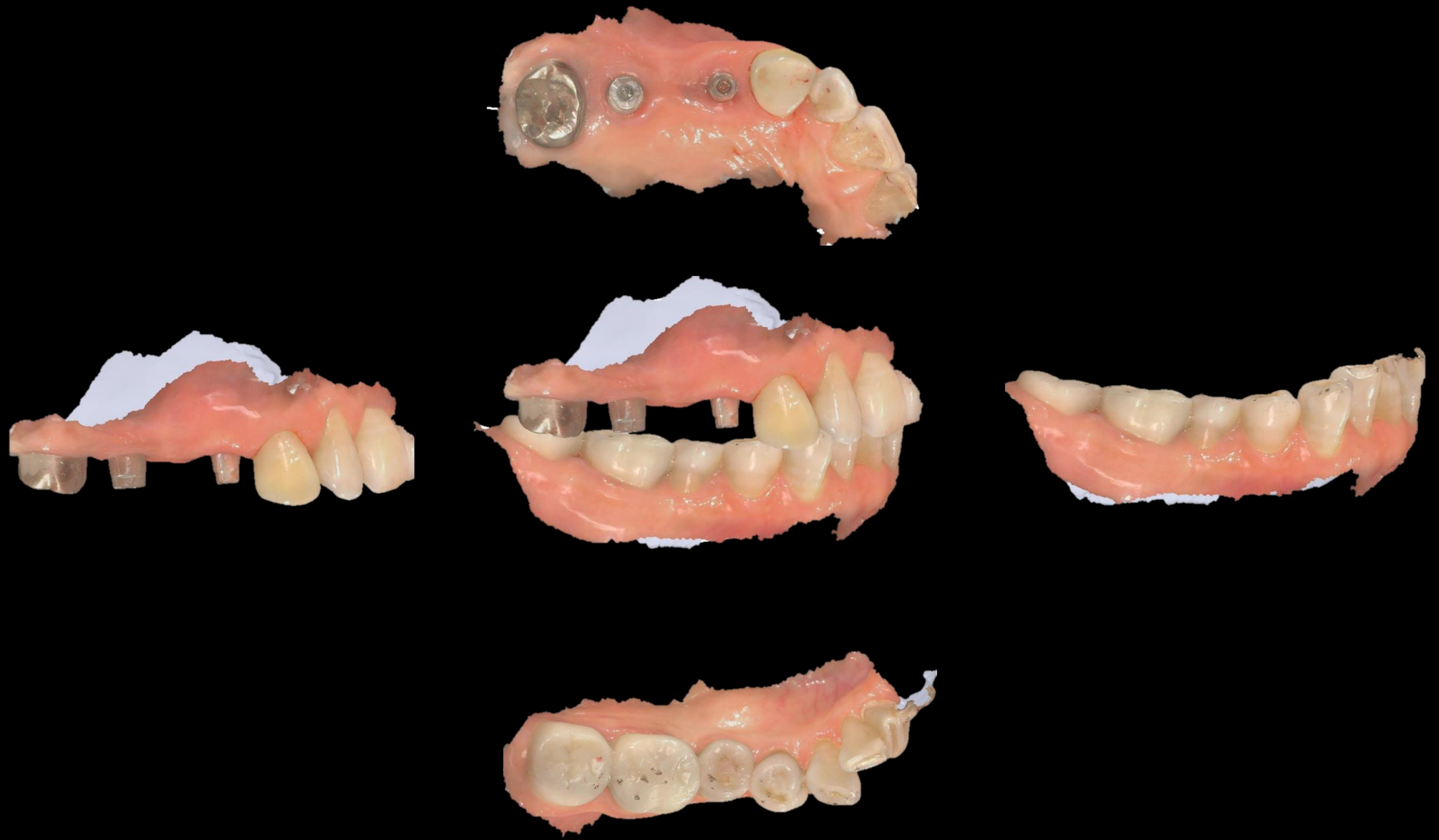
Temporary crown

Healing : 3 months (2025-01-08)

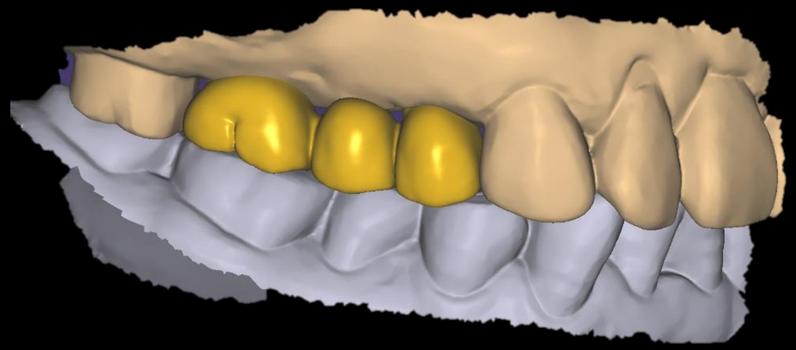


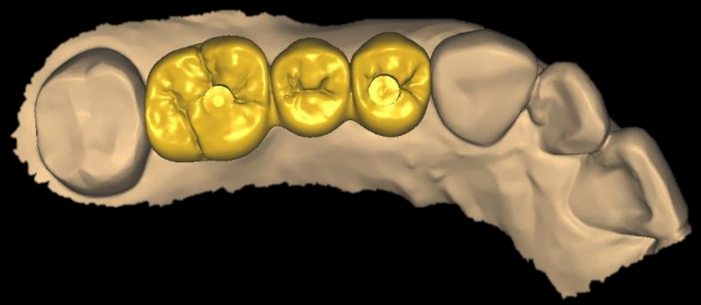
Provisional restoration (2025-02-11)

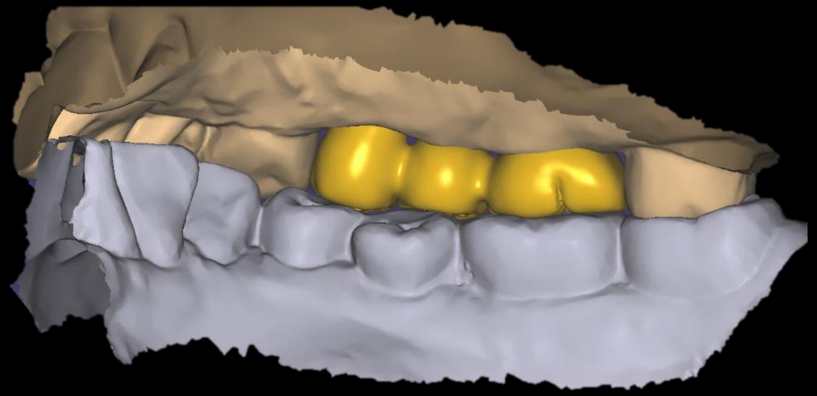
Intra Oral Scan

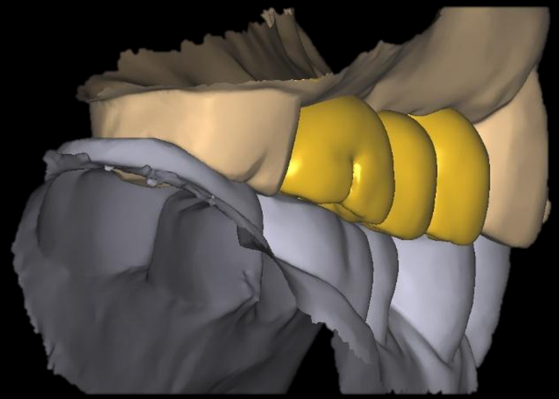


CAD (Final prosthesis)

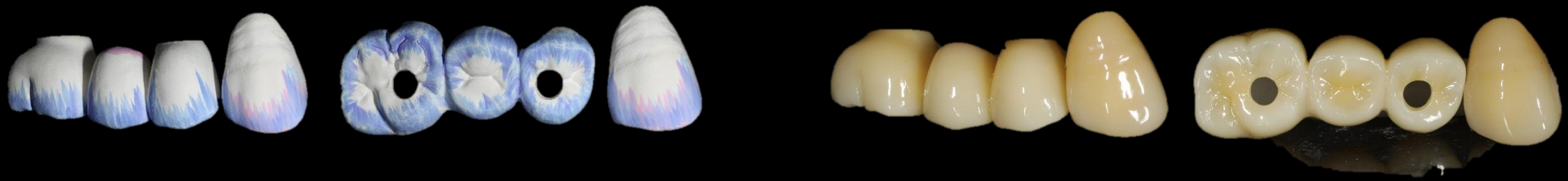




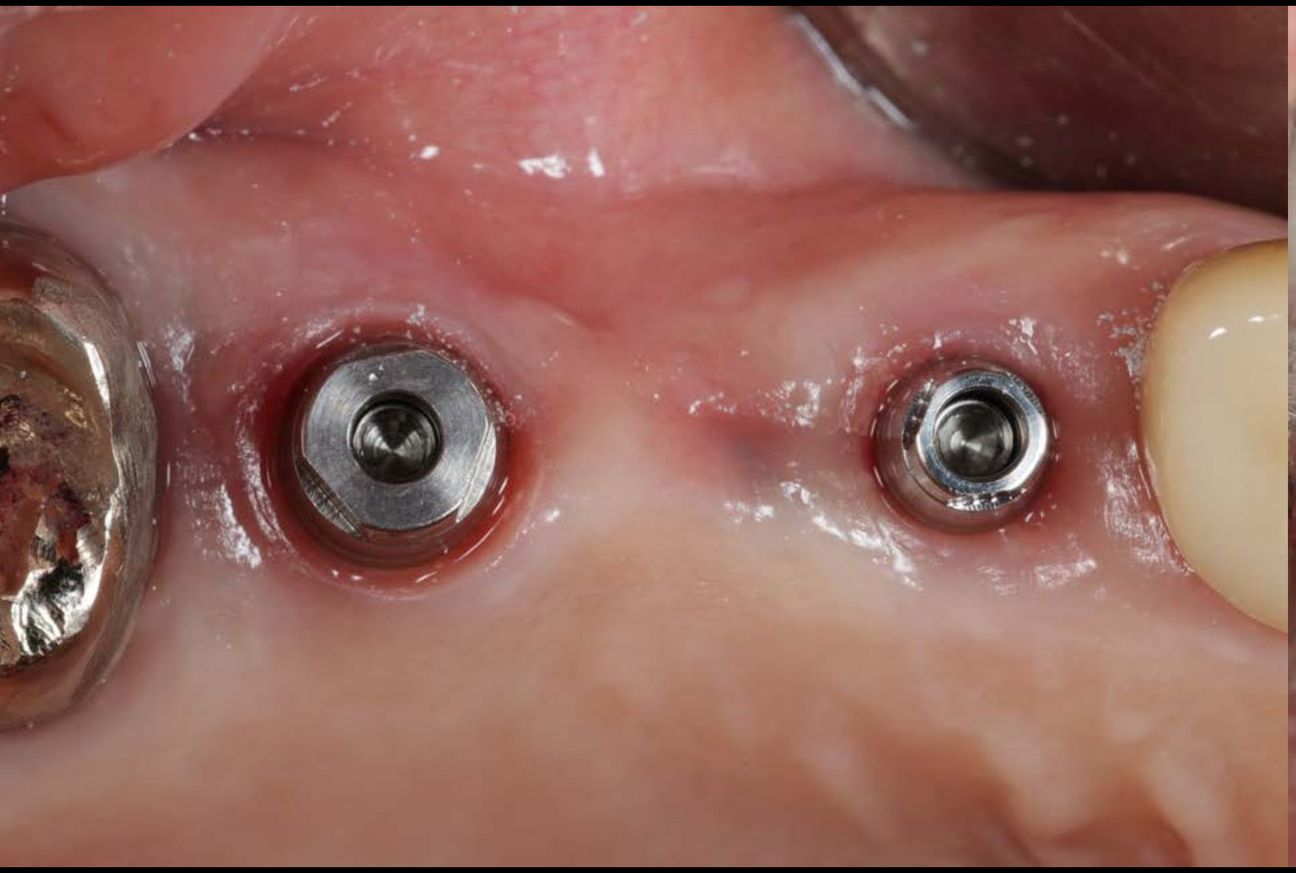




Milling / Coloring / Sintering / Glazing



Final impression (2025-02-21)

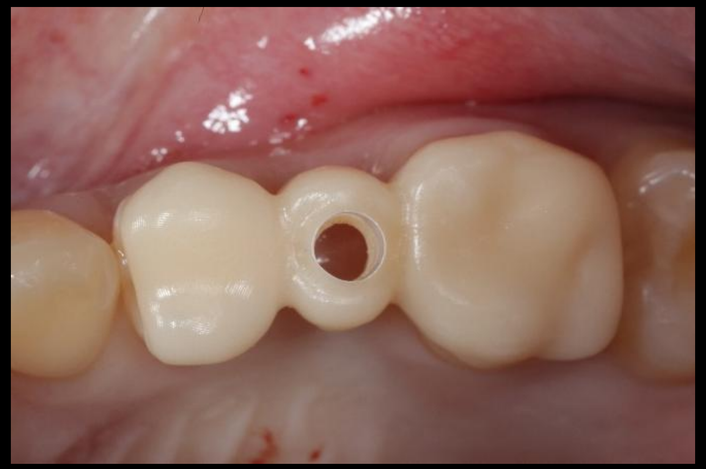


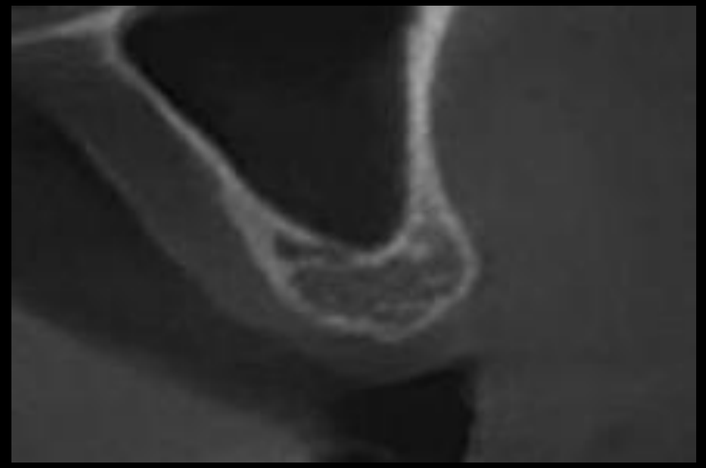
Final prosthesis (2025-02-21)

HRF (2025-02-21)

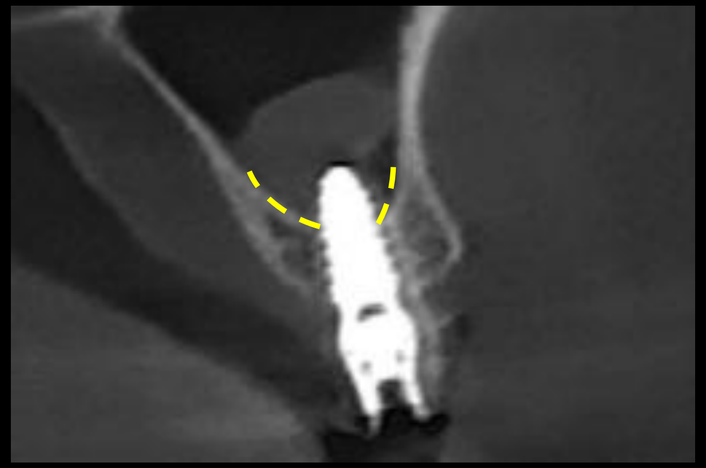
Follow up : 6 months (2025-08-22)

#15 I.S & Bicortical Fixation (collagen graft x1D)

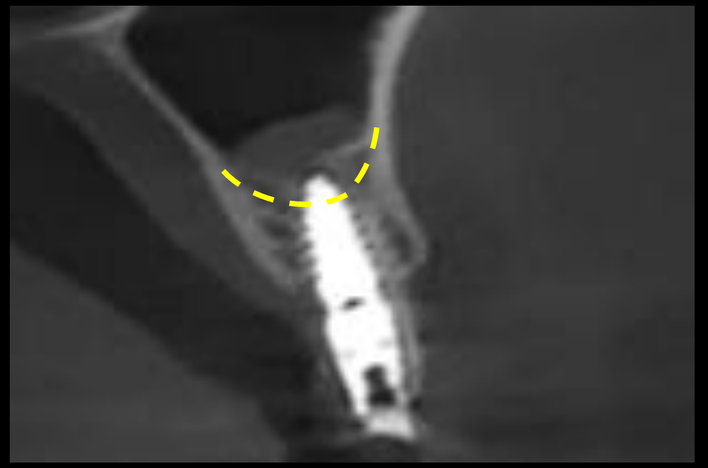




Pre-op



Post-op



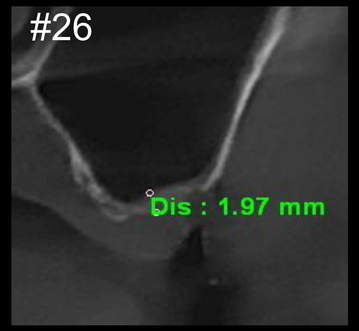
Follow up CT : 6 months

Clear slinger for 26 distal driving with the implant anchor

Ti – base + Temp del

Crestal Approach CASE 3

Dentium



Pre-op CT

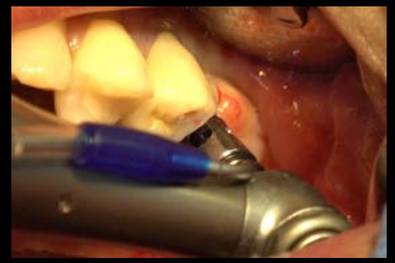
Post-op CT

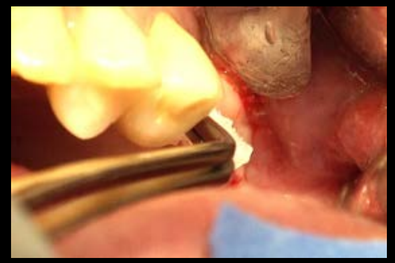
Healing CT : 4M

- 💬 “Does **Collagen Graft** first layering enhance the performance of **OSTEON Xeno** or **OSTEON Collagen**?
- Can the **Crestal approach** be used in cases with 1–3 mm residual bone height?

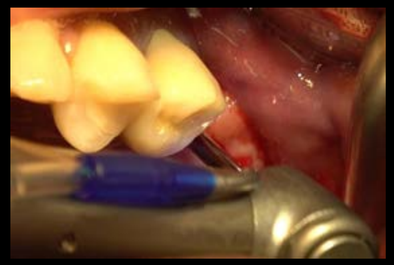
Minimal invasive

Guide drilling


Sinus elevation


Collagen Graft x1D

Bone graft lifting


Bone graft spreading

OSTEON™ Xeno Collagen

Bone graft lifting

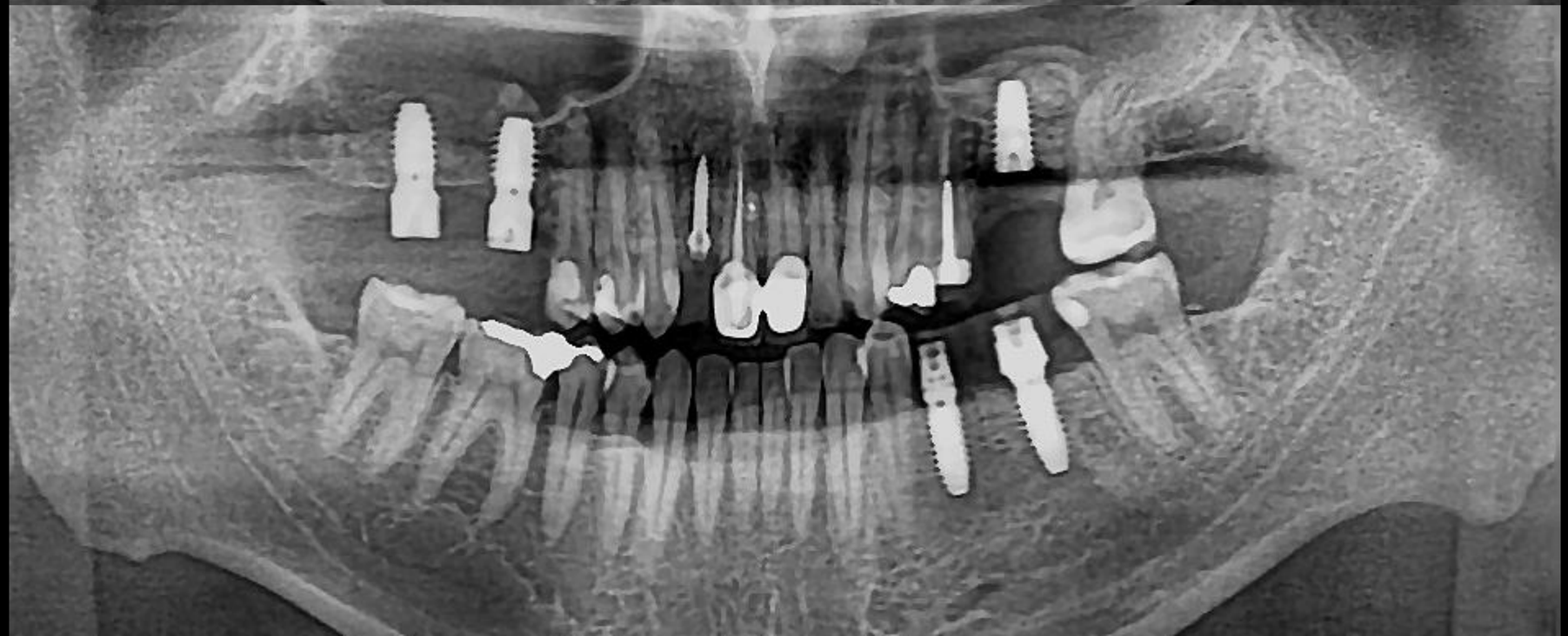
bright TL (Ø4.5 X 7.0)

Healing : 1 month

Sinus lifting with **Collagen Graft** & Bone grafting with **OSTEON Xeno Collagen**

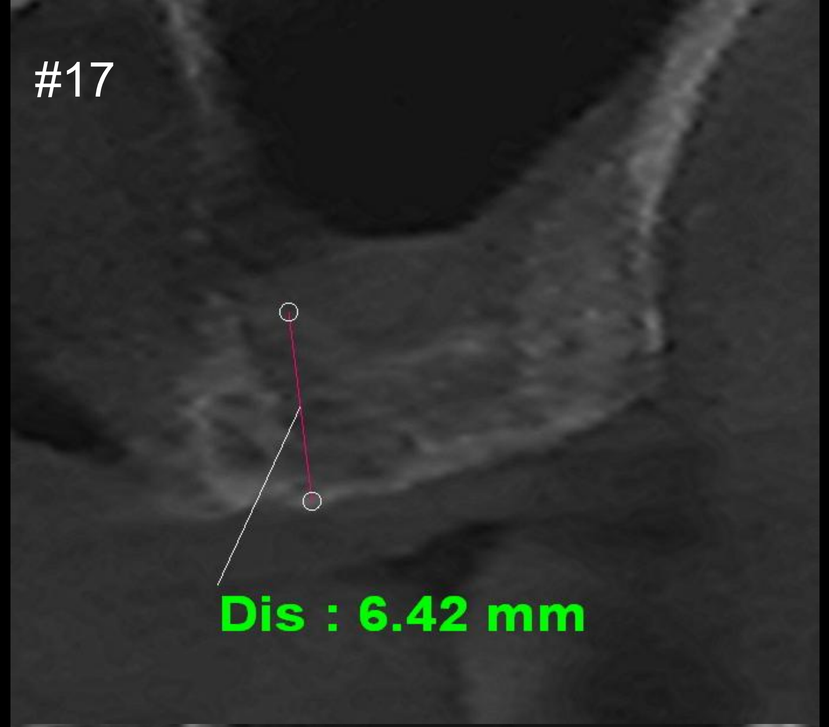
Pre-op (2025-08-13)

Post-op (2025-10-29)

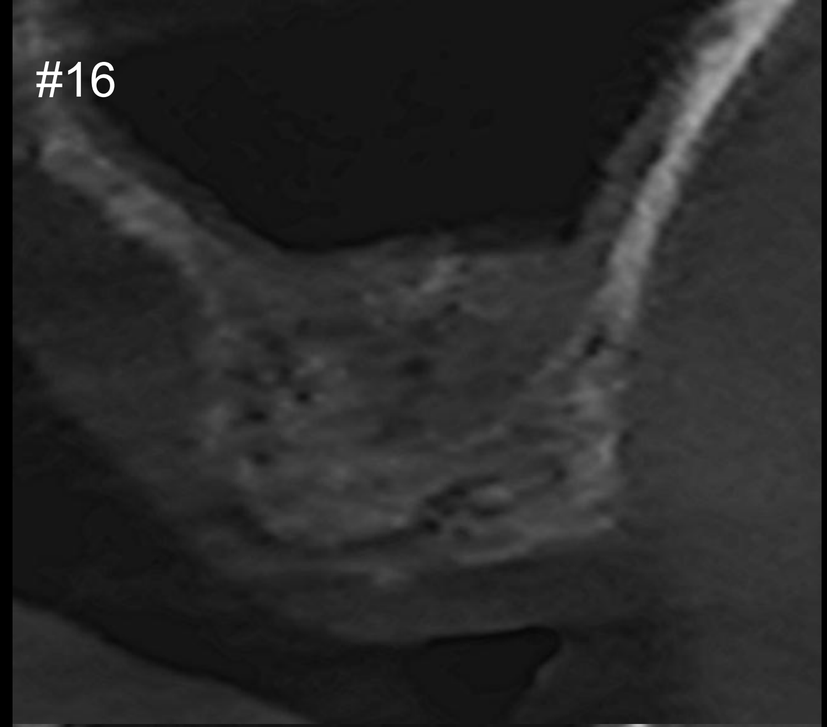


Pre-op CT (2025-08-13)

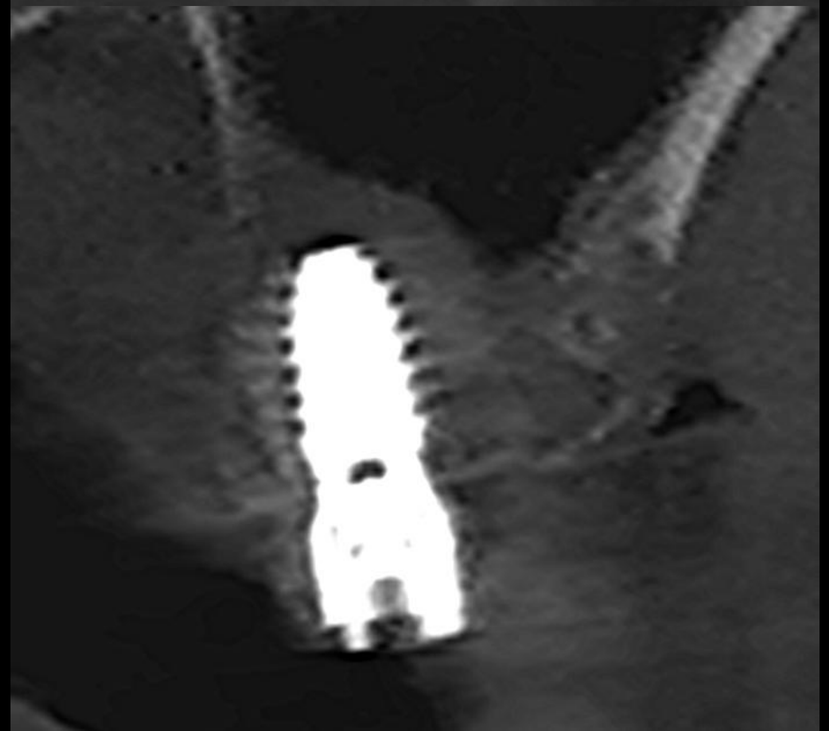
#17

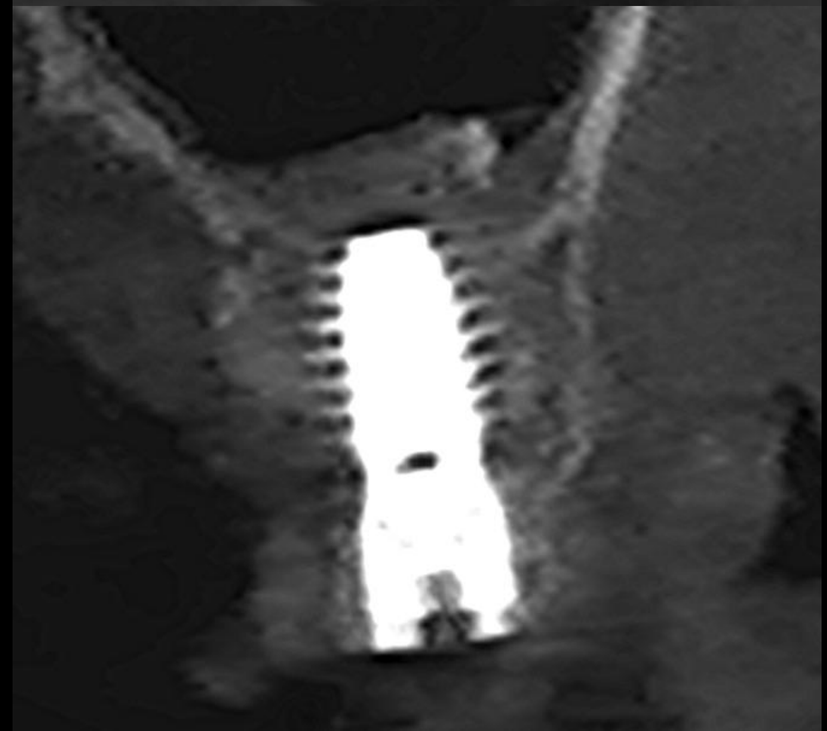


#16



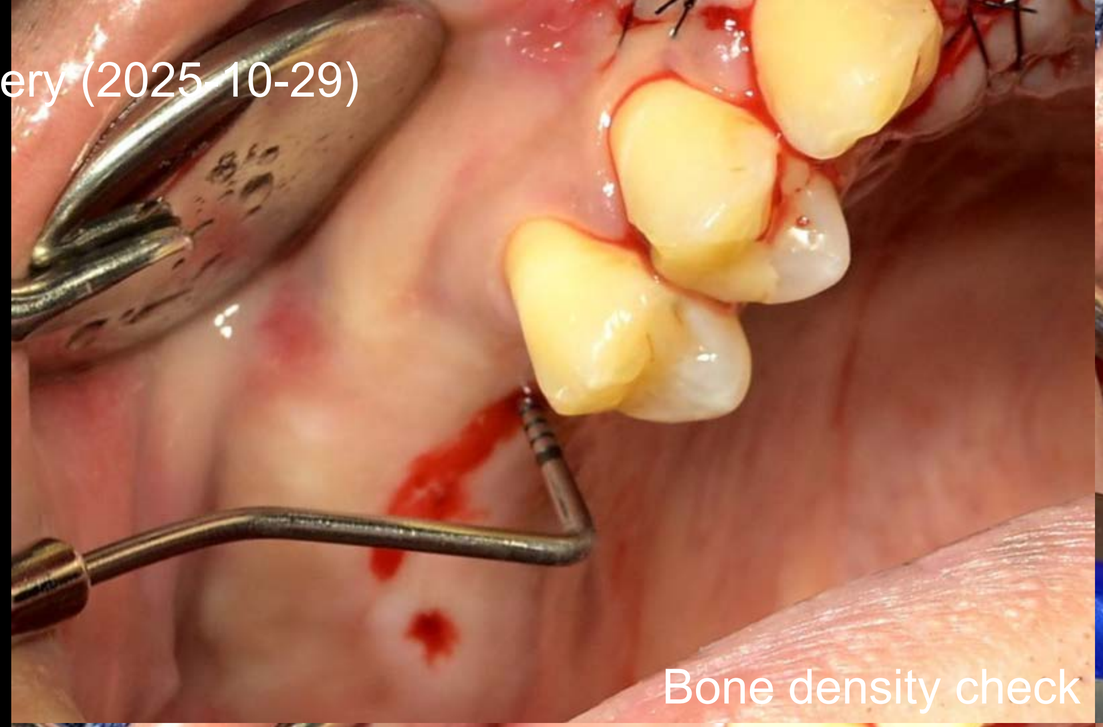
Post-op CT (2025-10-29)



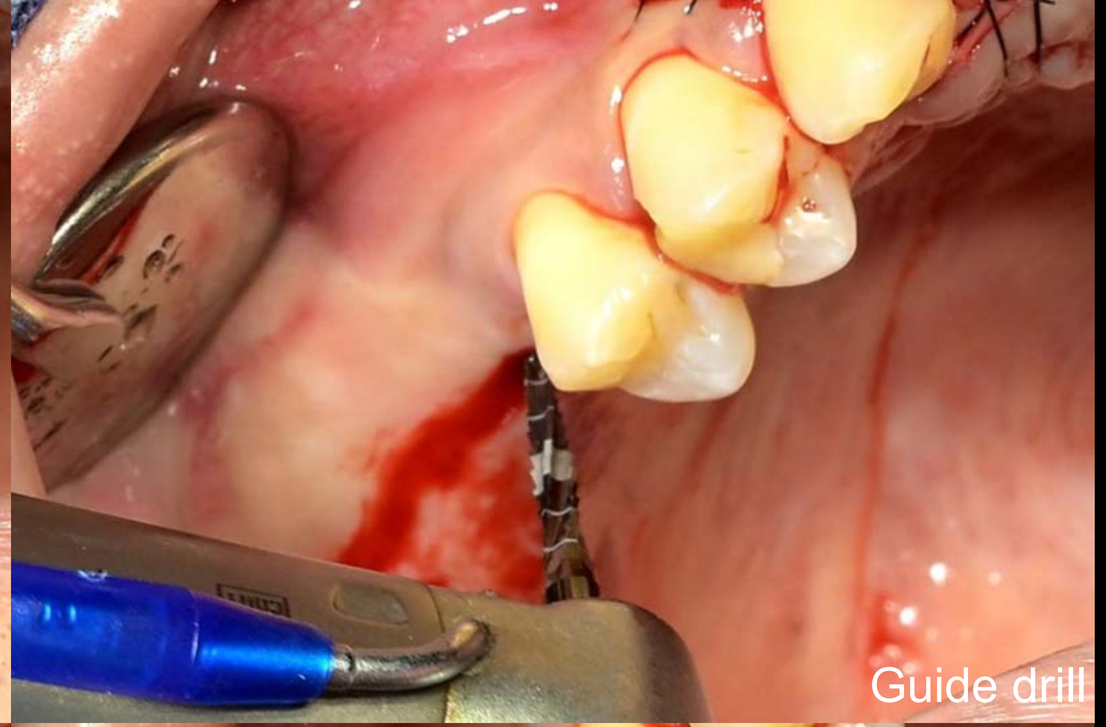


Pre-op (2025-10-29)

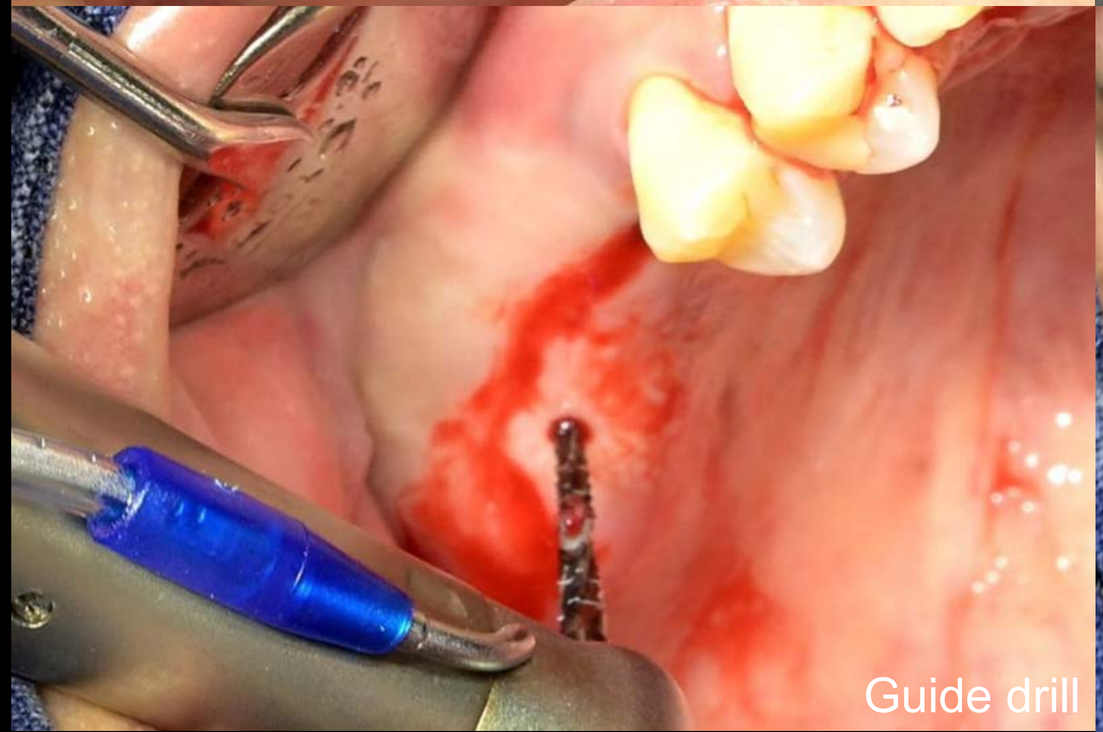
Surgery (2025-10-29)



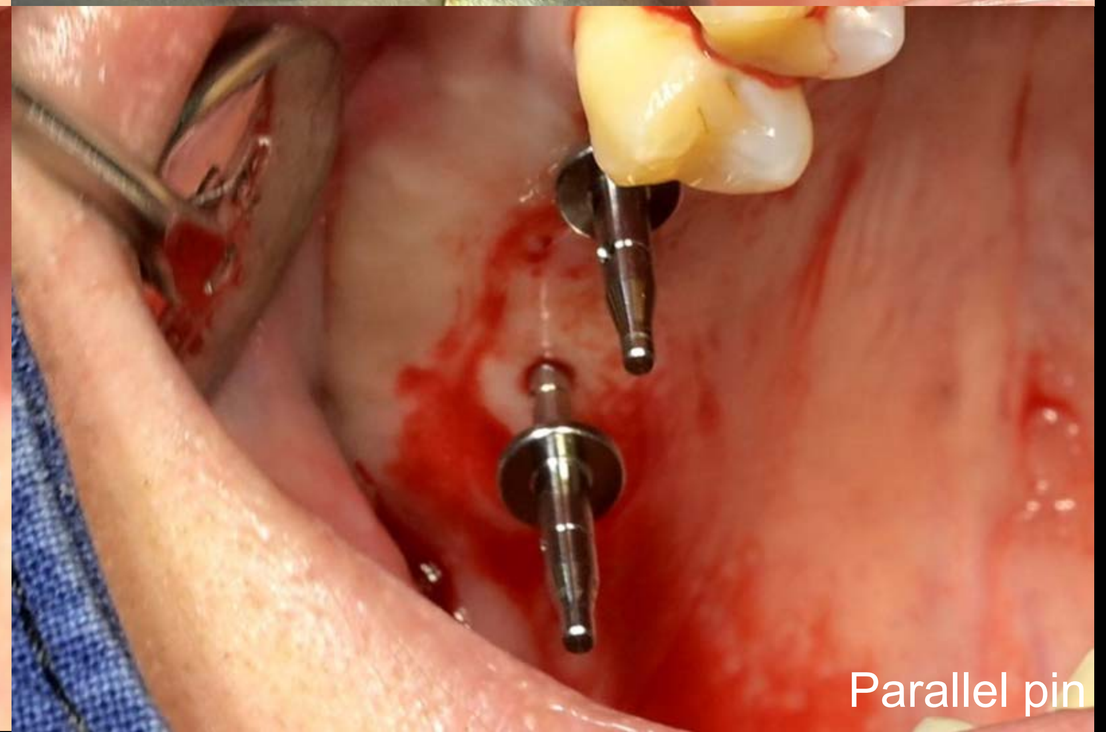
Bone density check



Guide drill

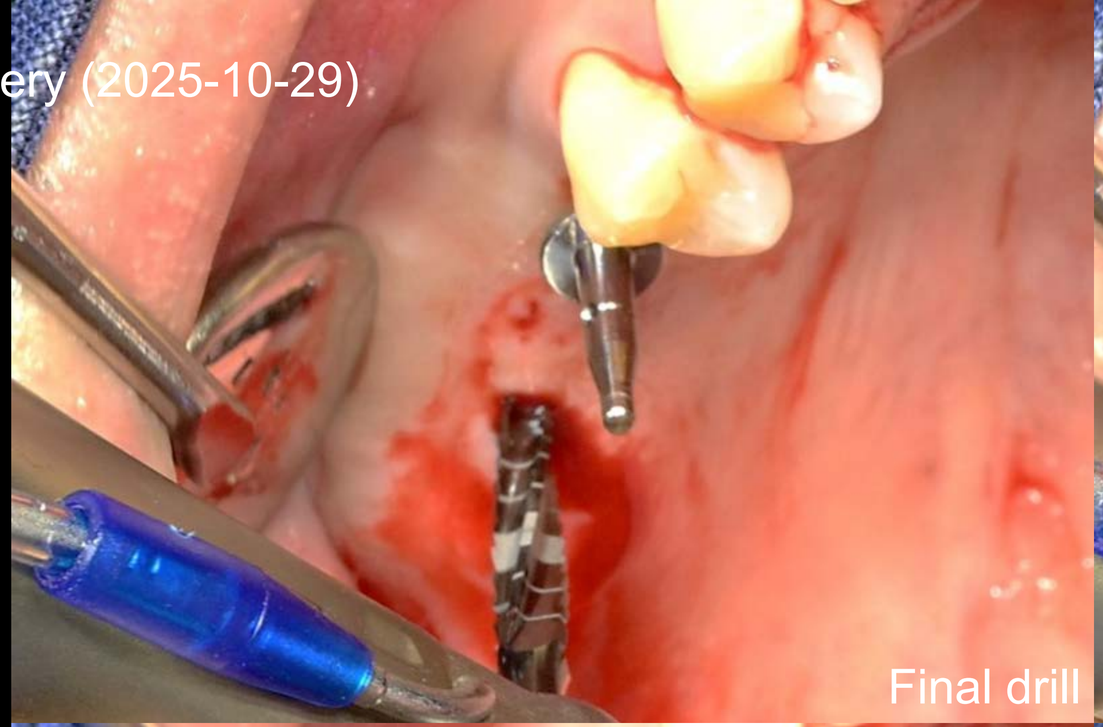


Guide drill

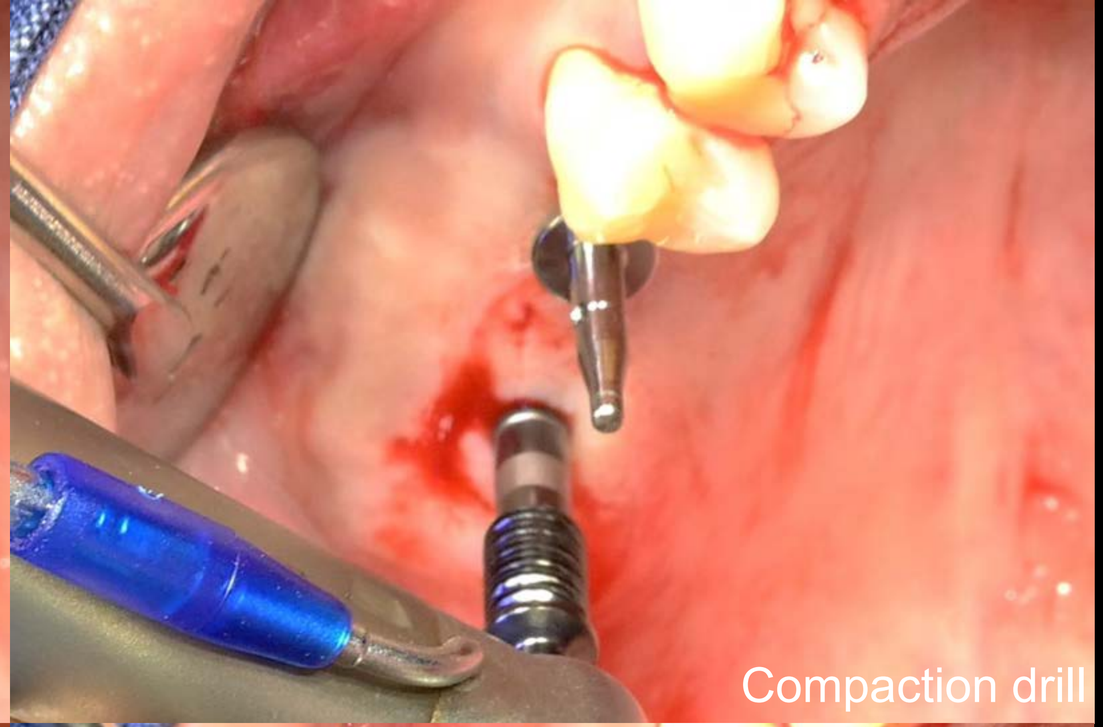


Parallel pin

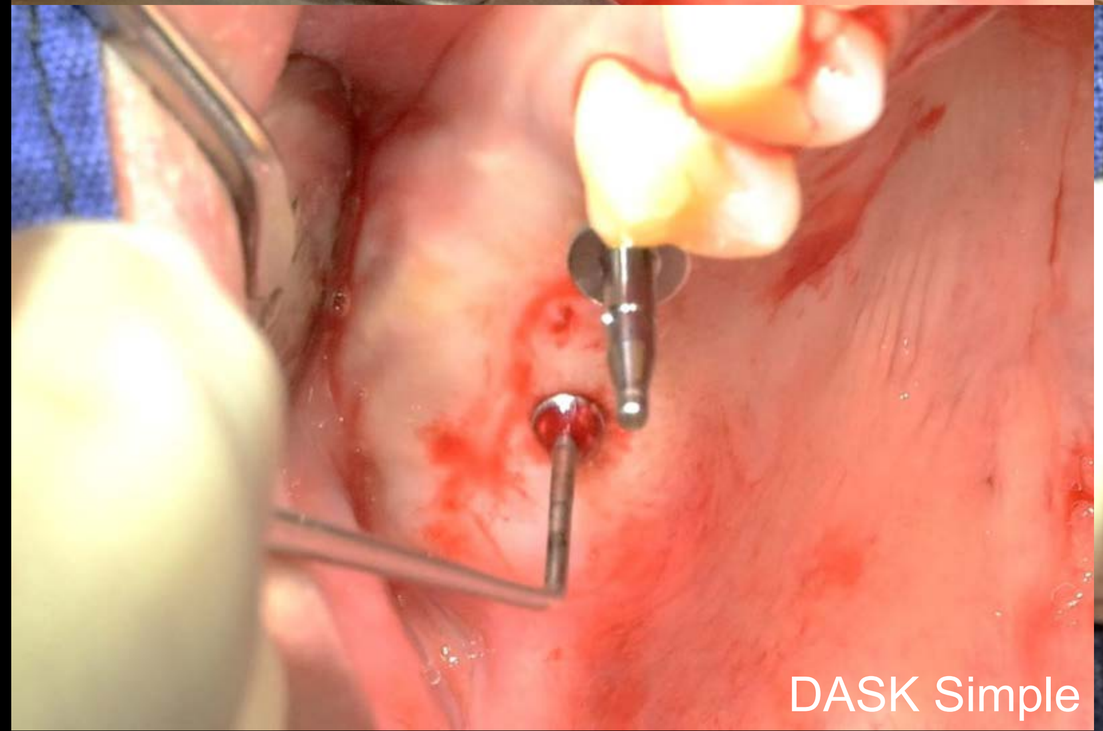
Surgery (2025-10-29)



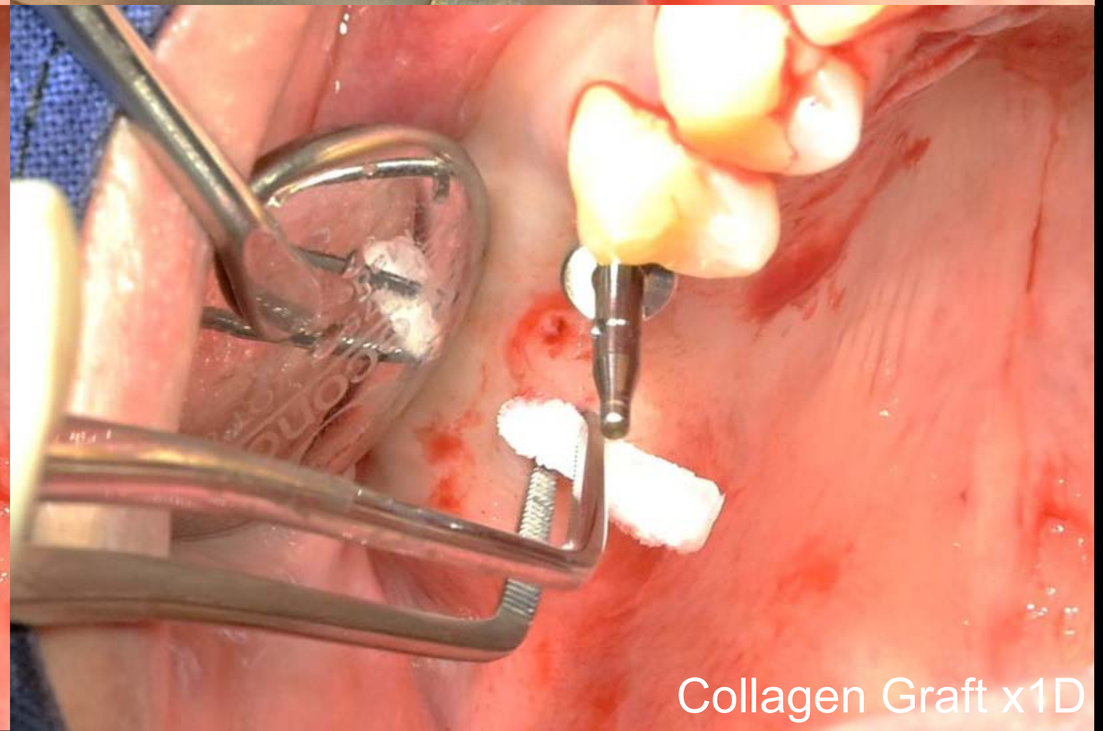
Final drill



Compaction drill

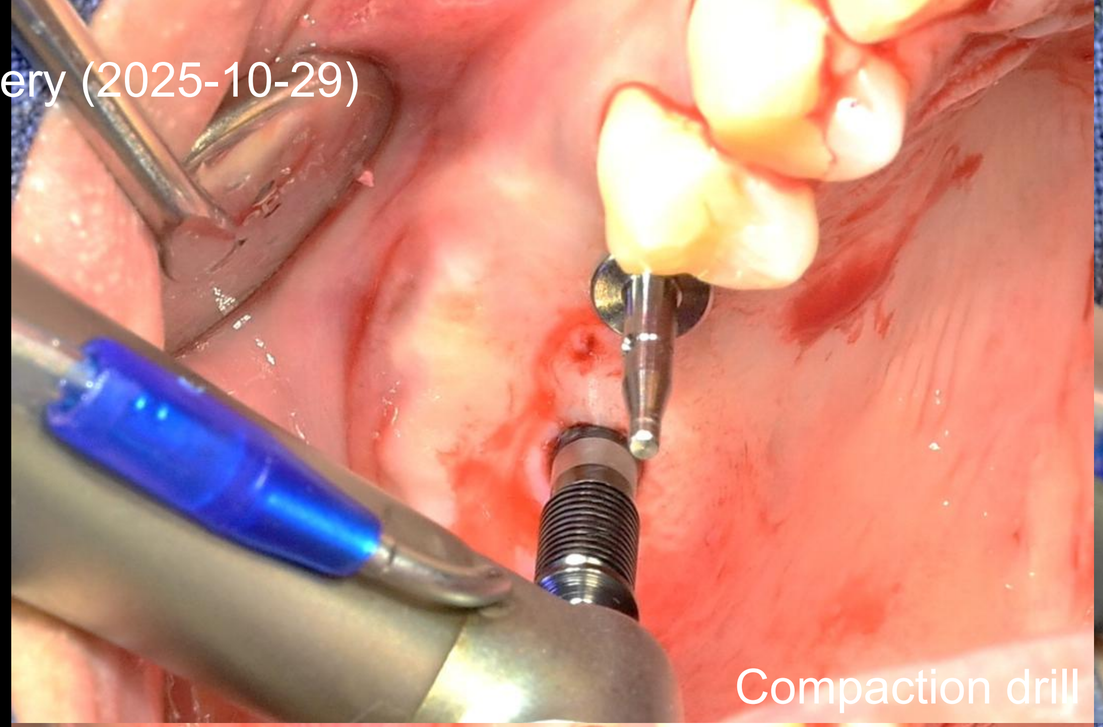


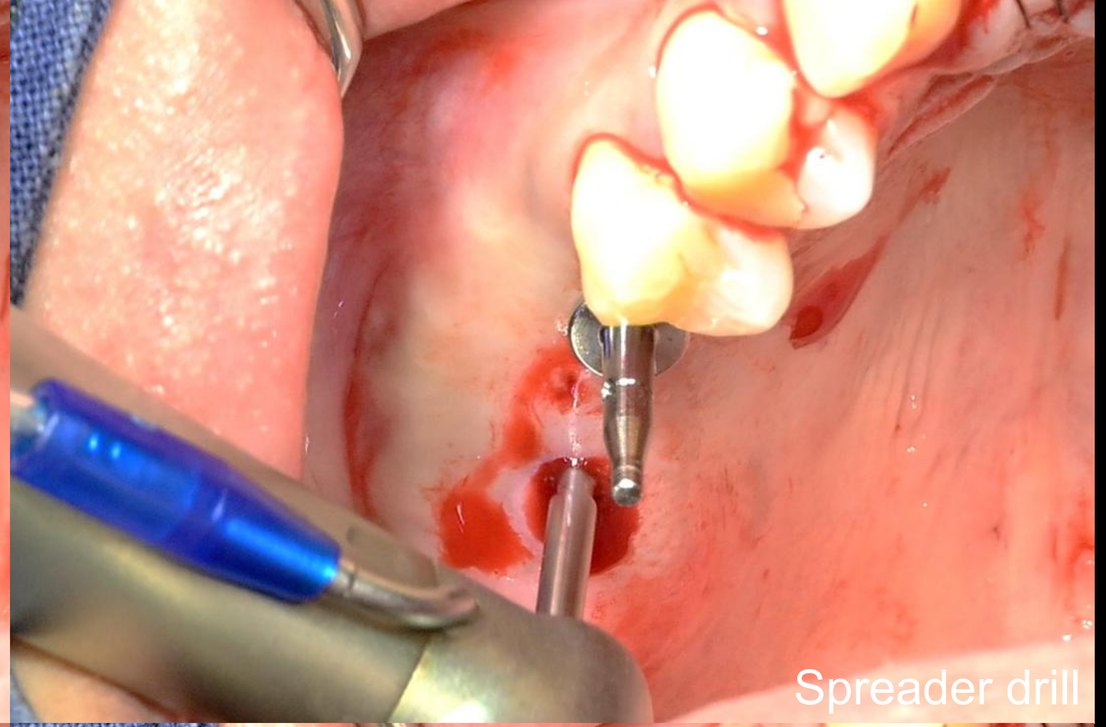
DASK Simple

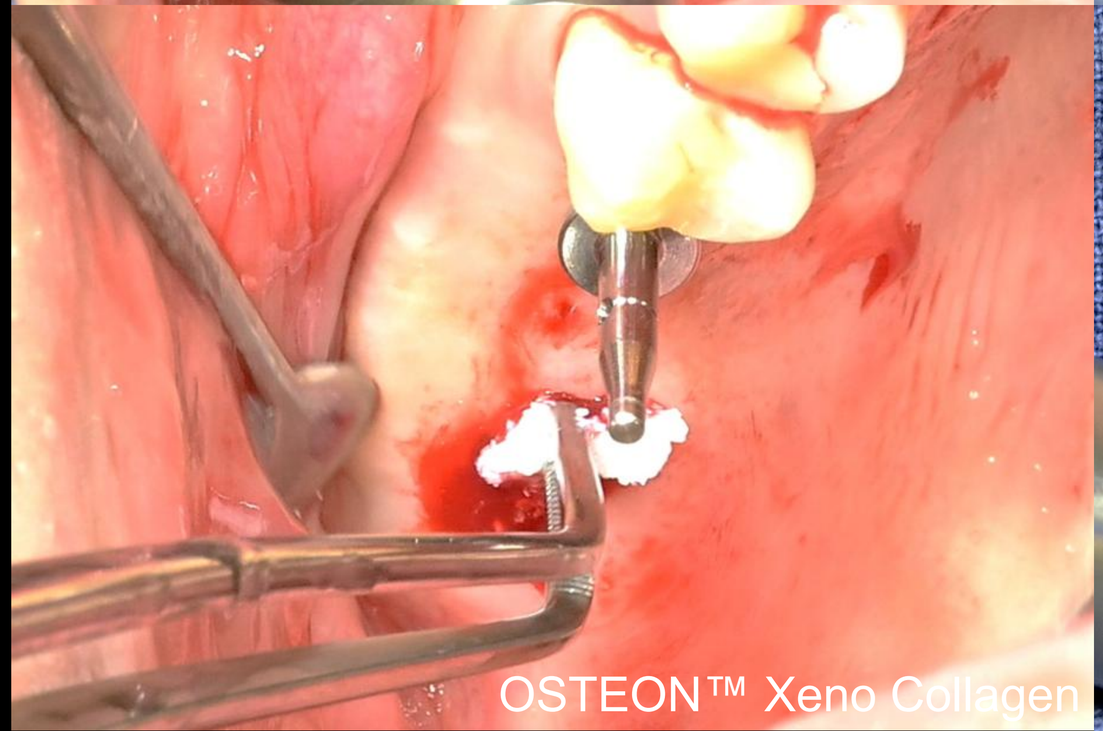


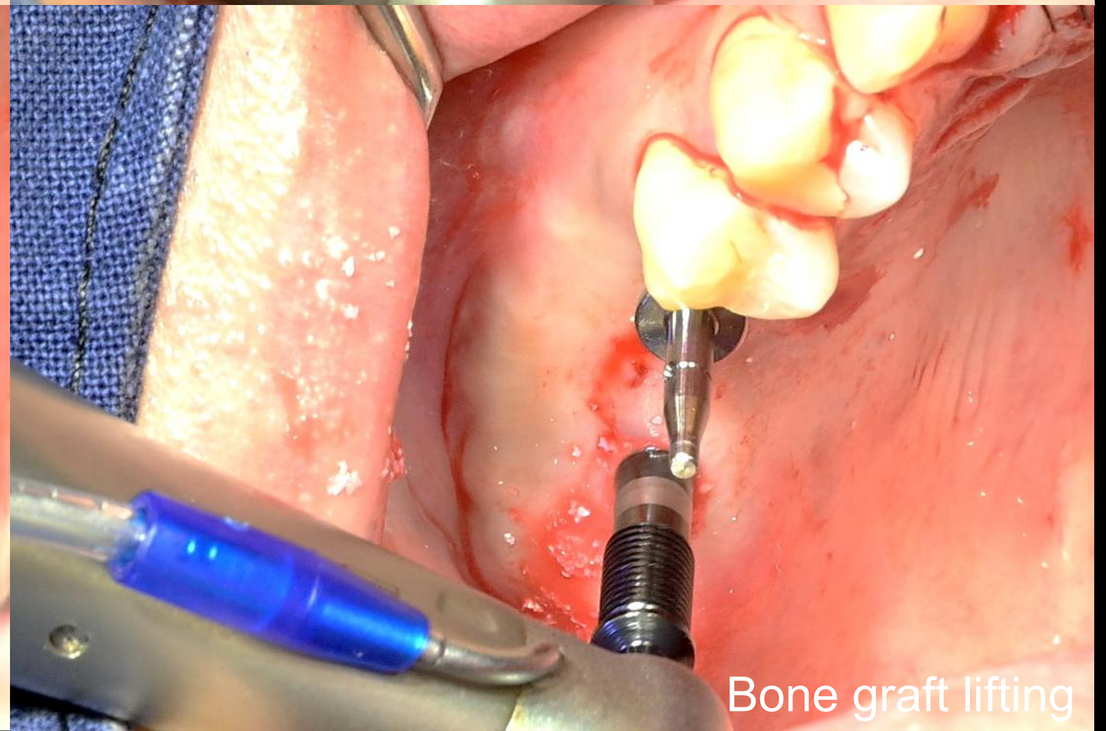
Collagen Graft x1D

Surgery (2025-10-29)

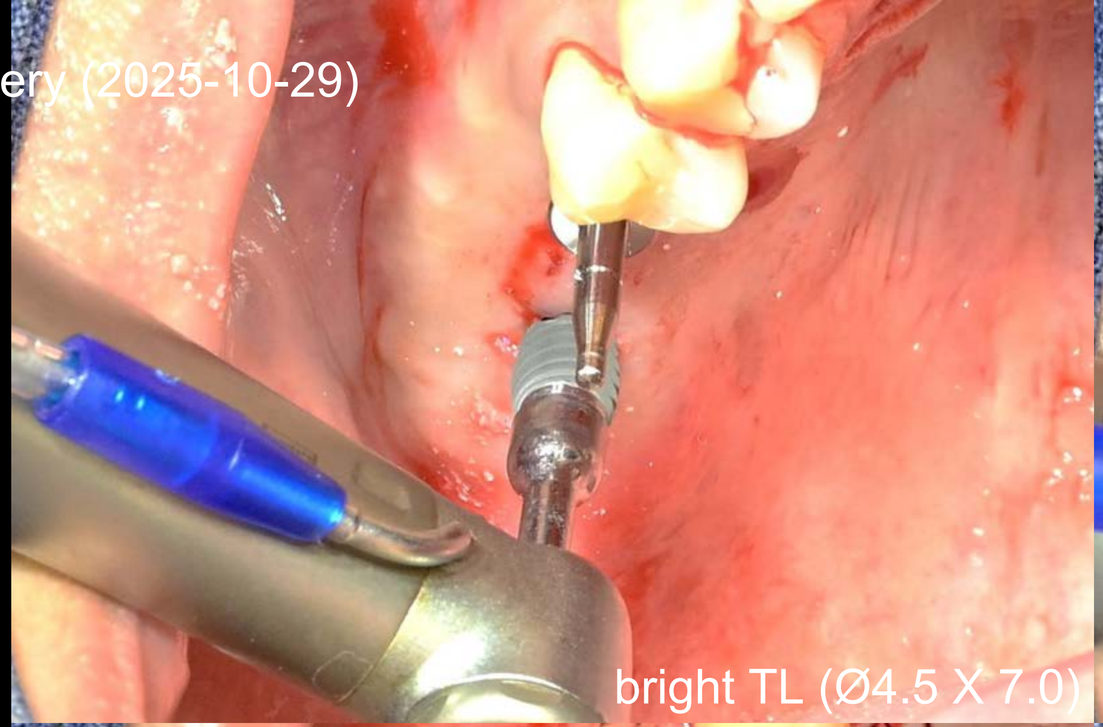

Compaction drill


Spreader drill

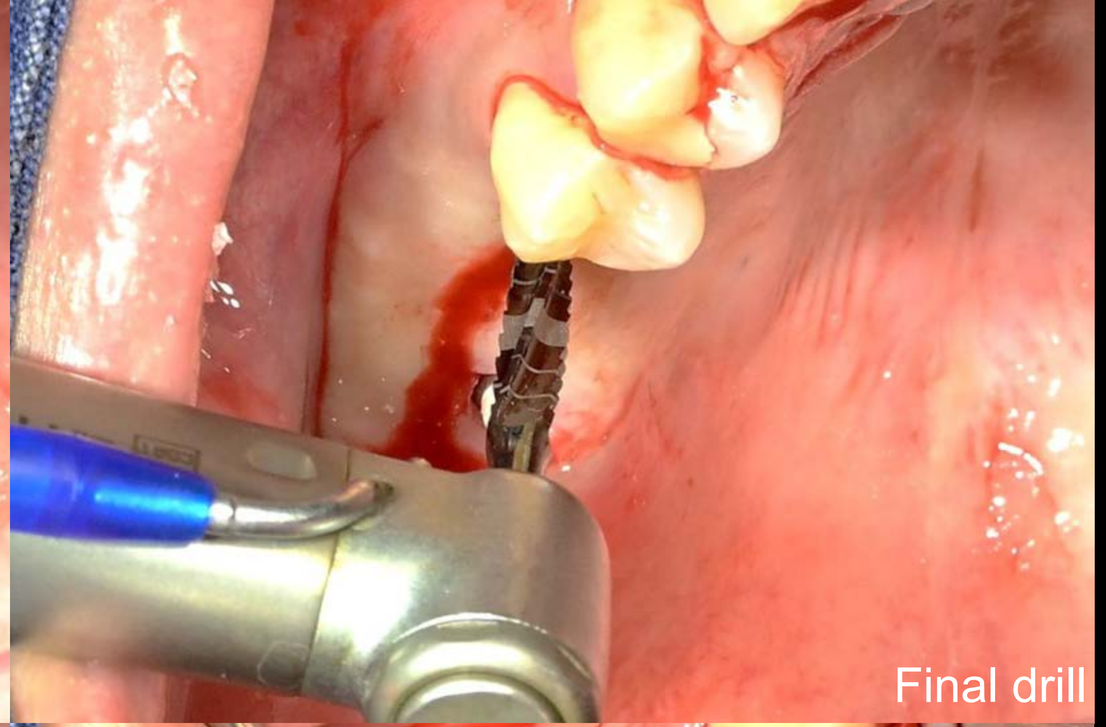

OSTEON™ Xeno Collagen


Bone graft lifting

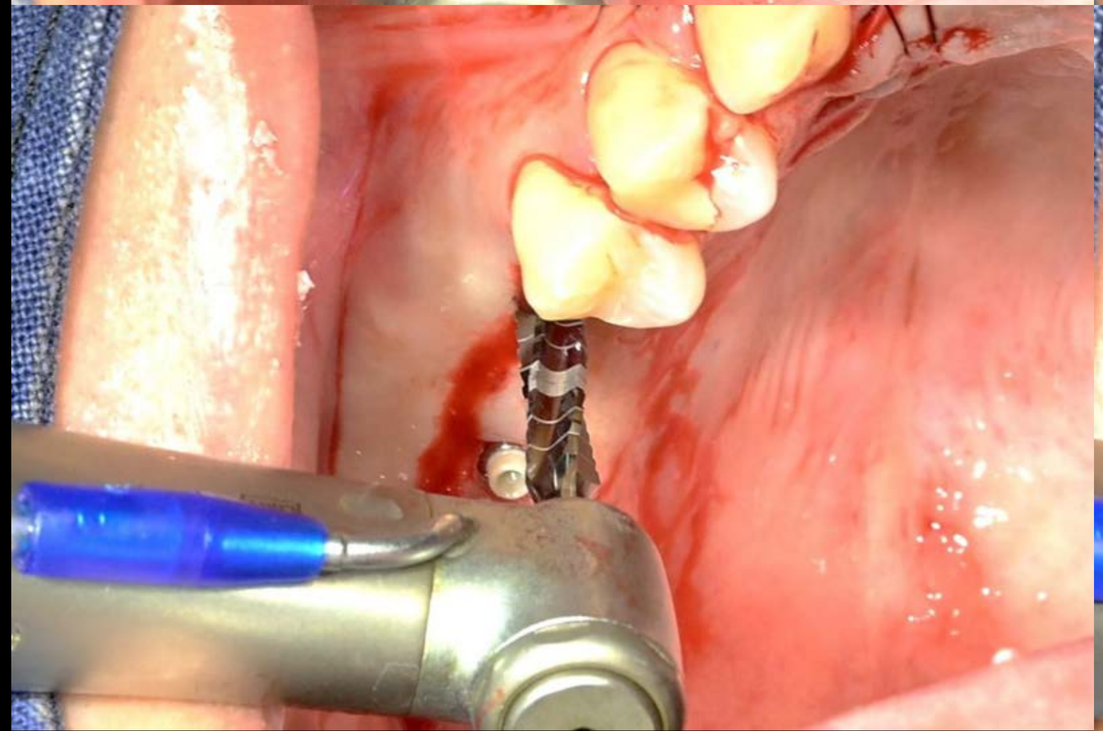
Surgery (2025-10-29)

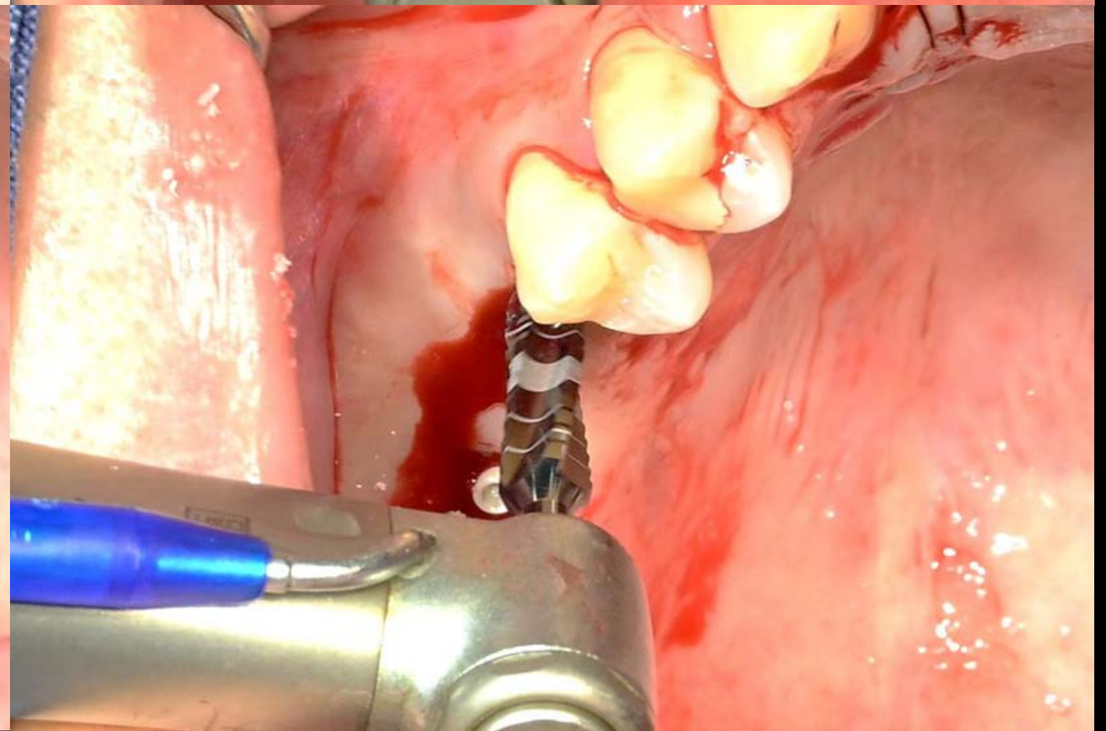


bright TL (Ø4.5 X 7.0)

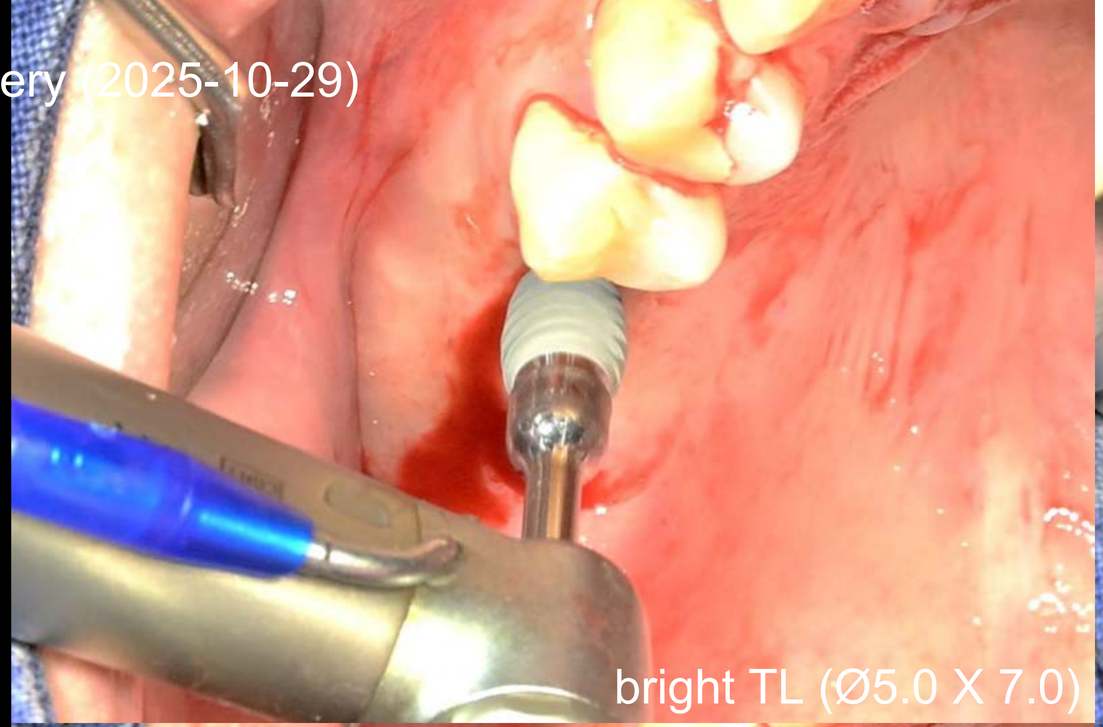


Final drill

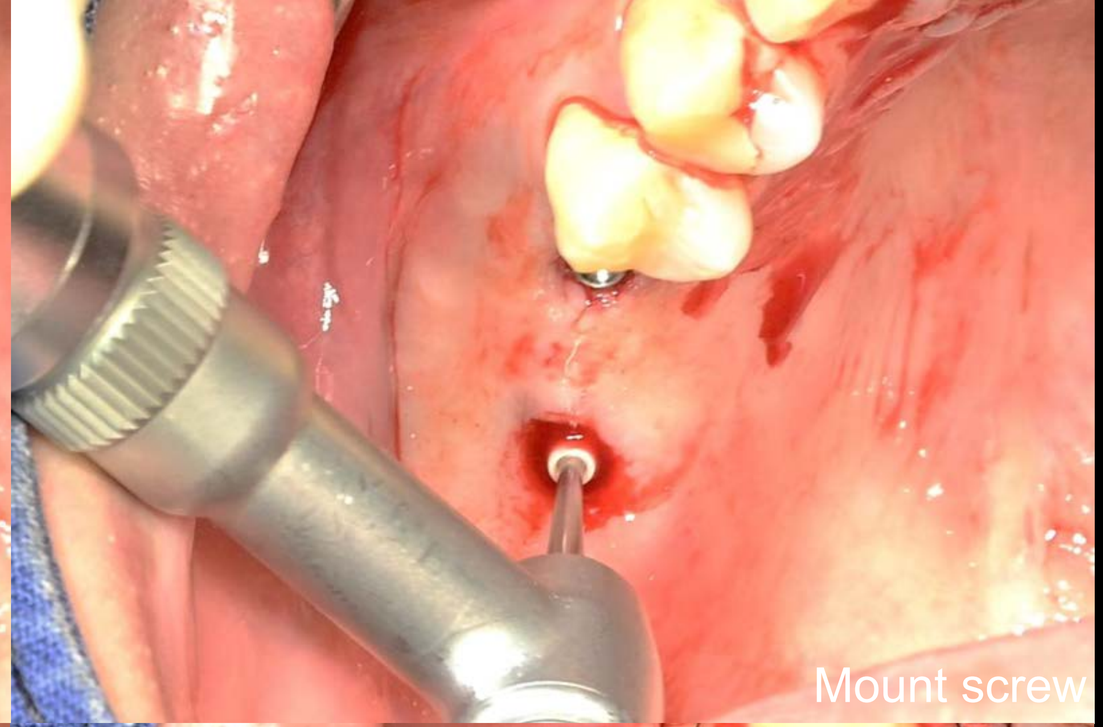




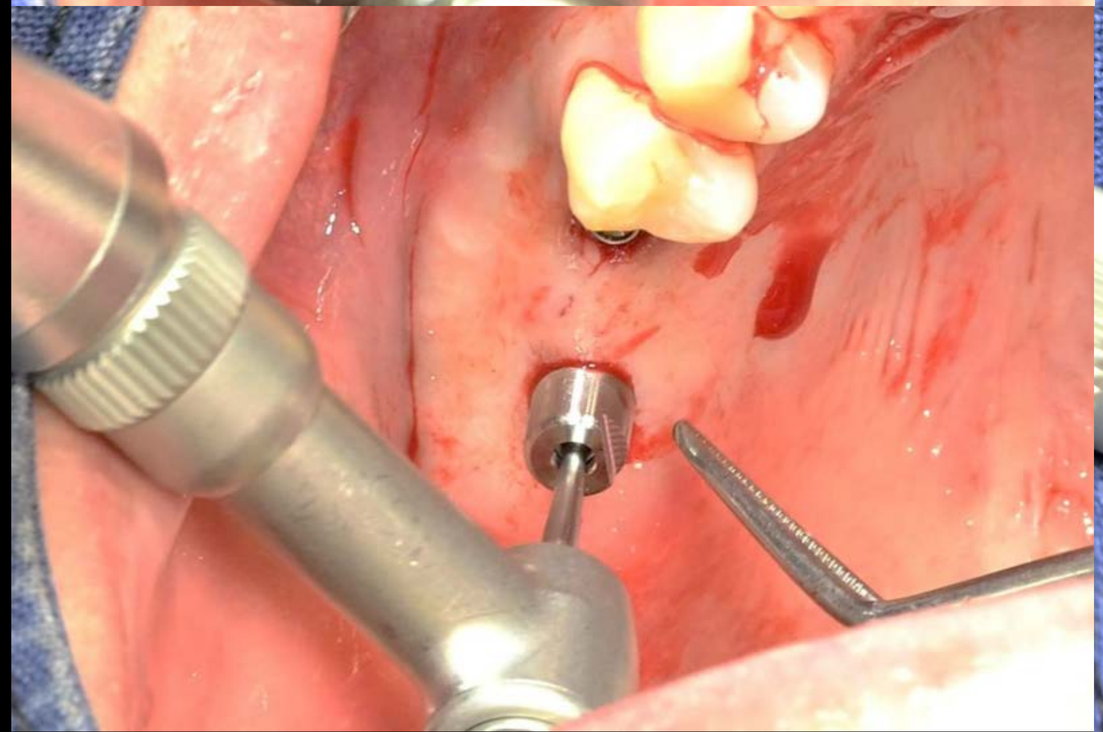
Surgery (2025-10-29)

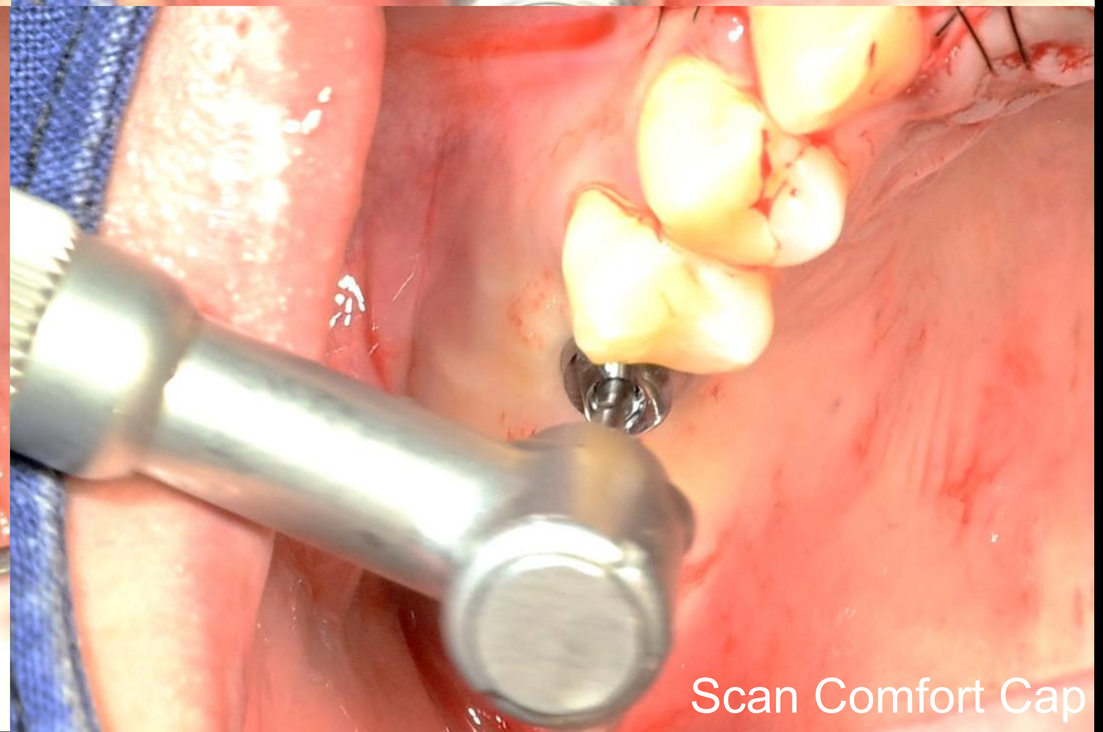


bright TL (Ø5.0 X 7.0)



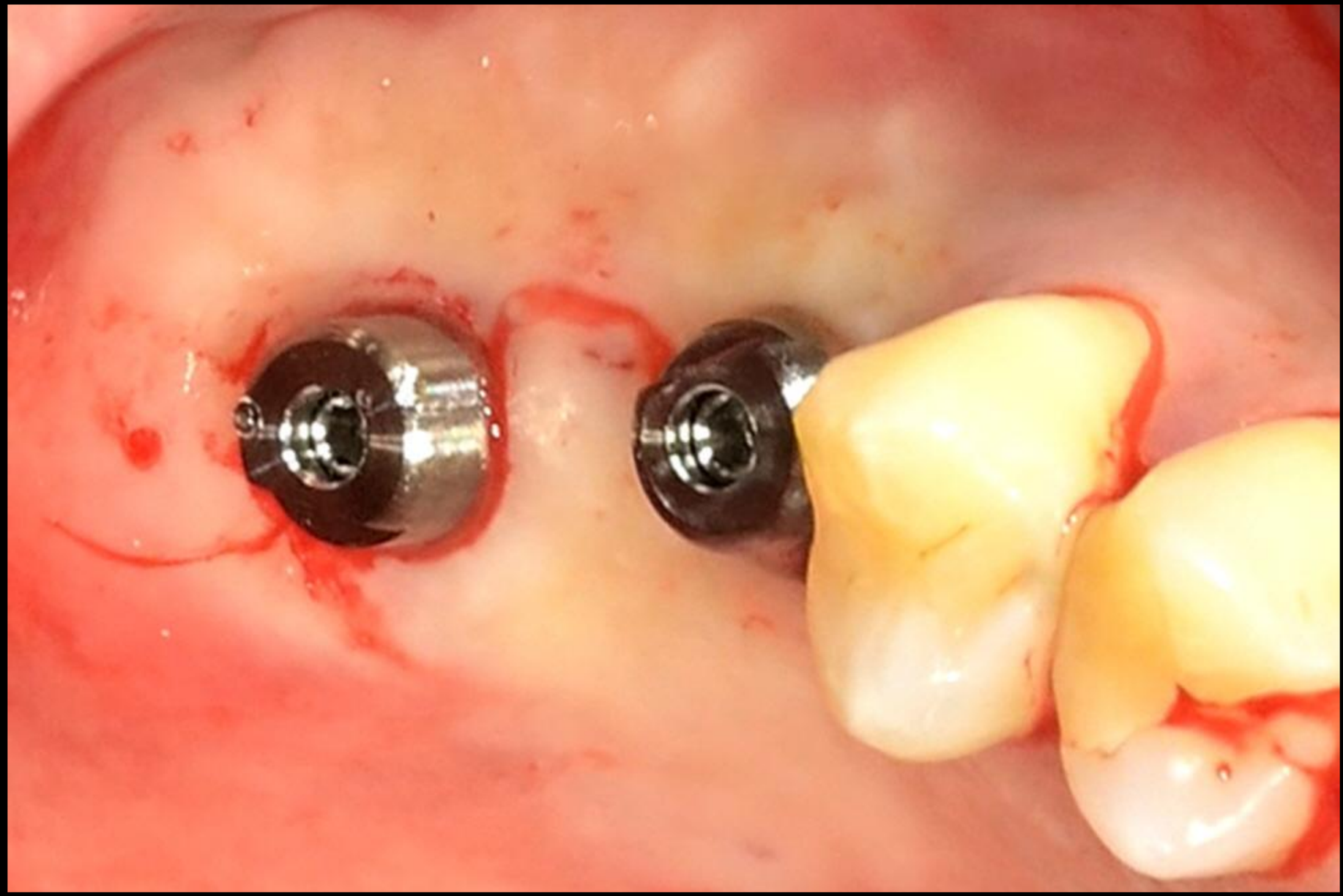
Mount screw



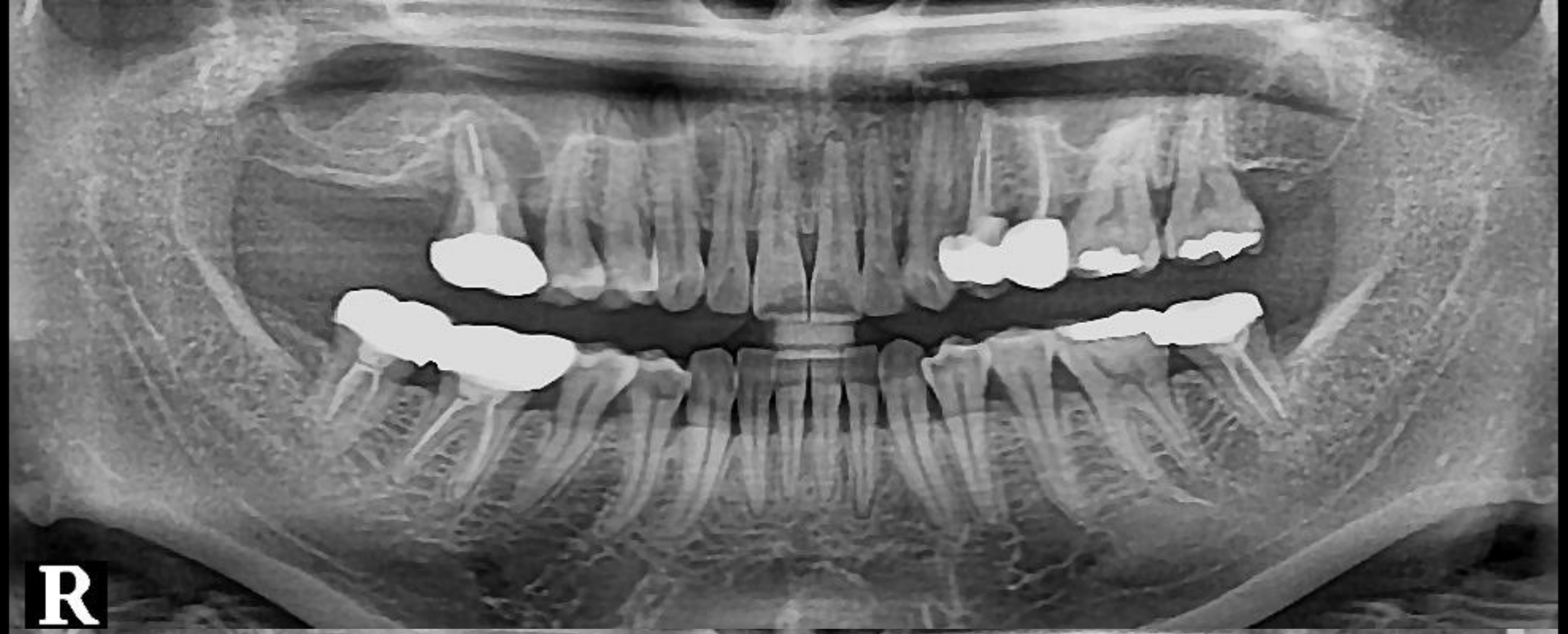


Scan Comfort Cap

Post-op (2025-10-29)



Pre-op (2025-10-28)



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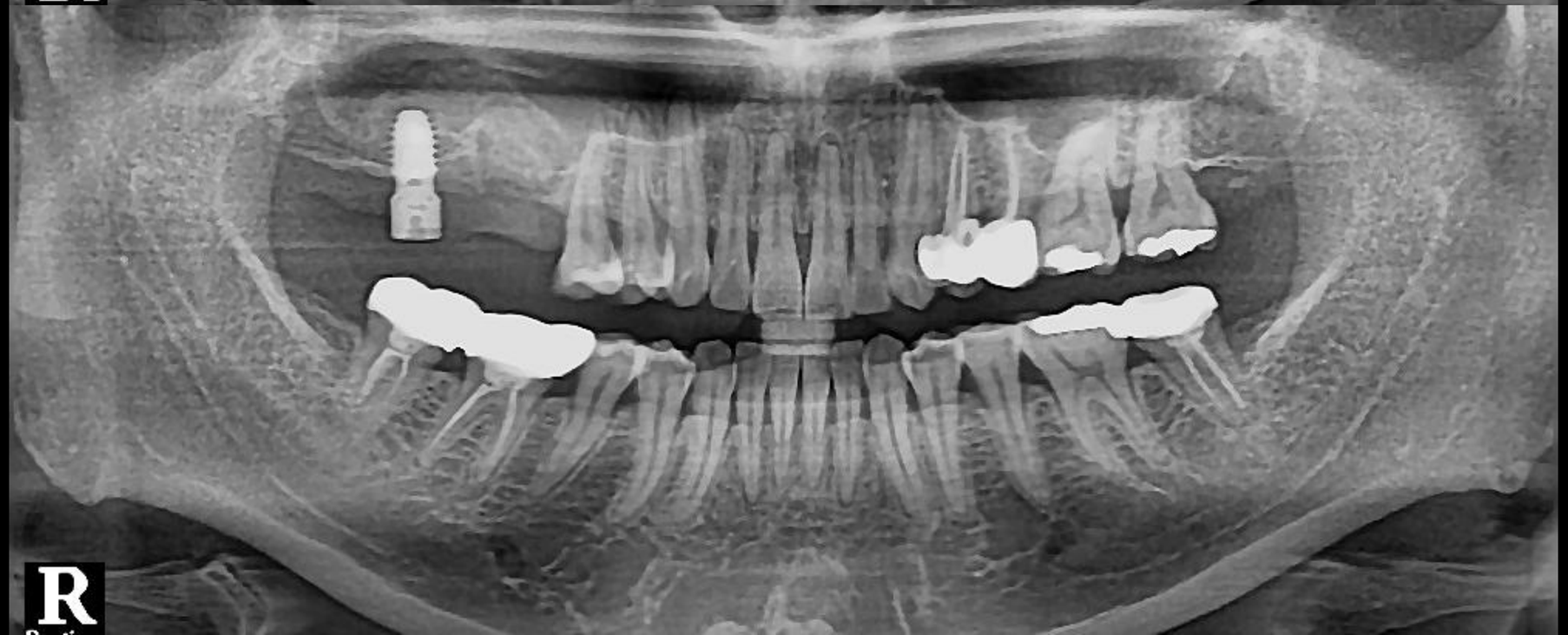
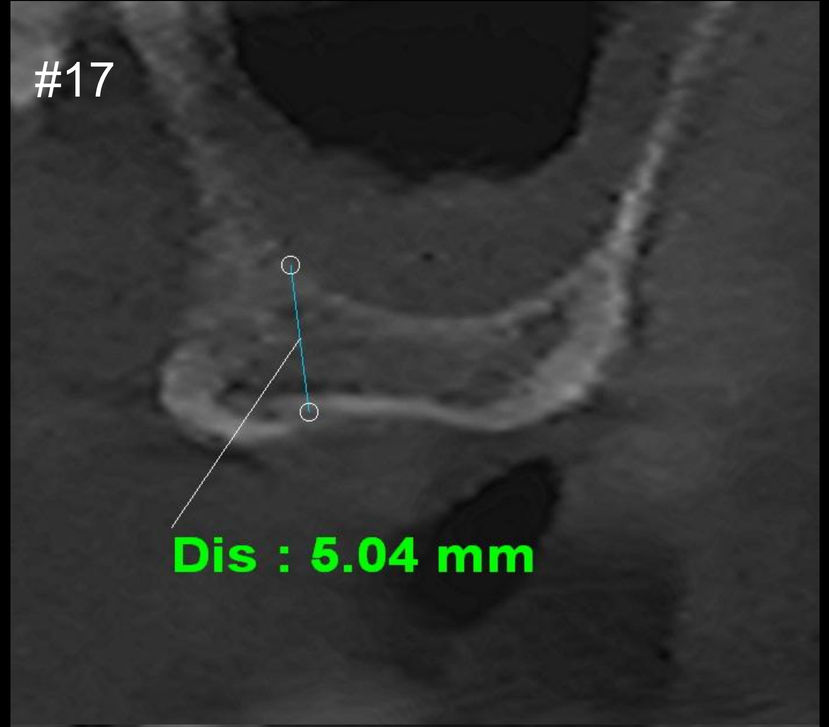


Pre-op CT (2025-10-28)



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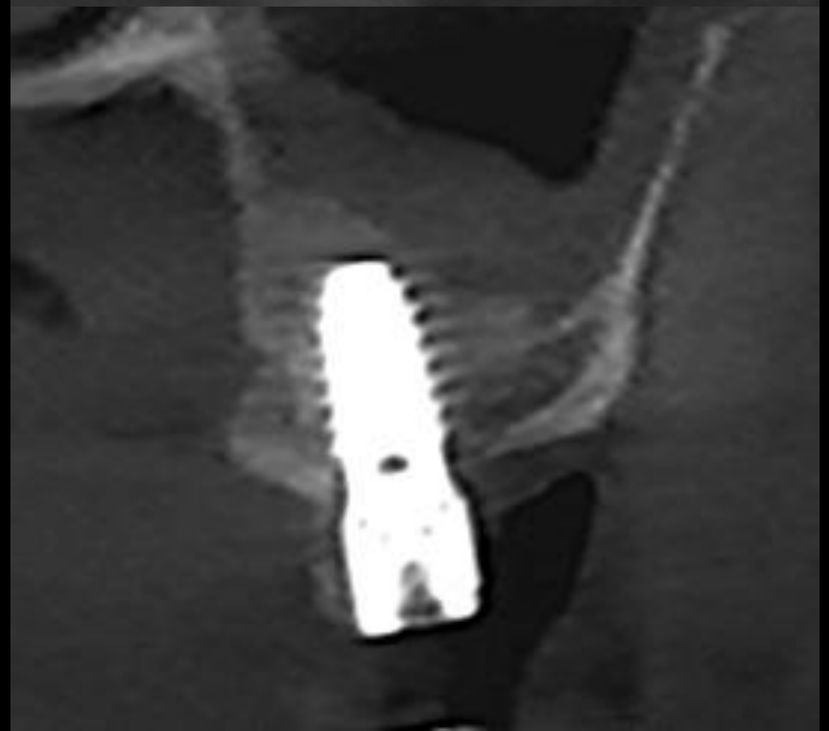

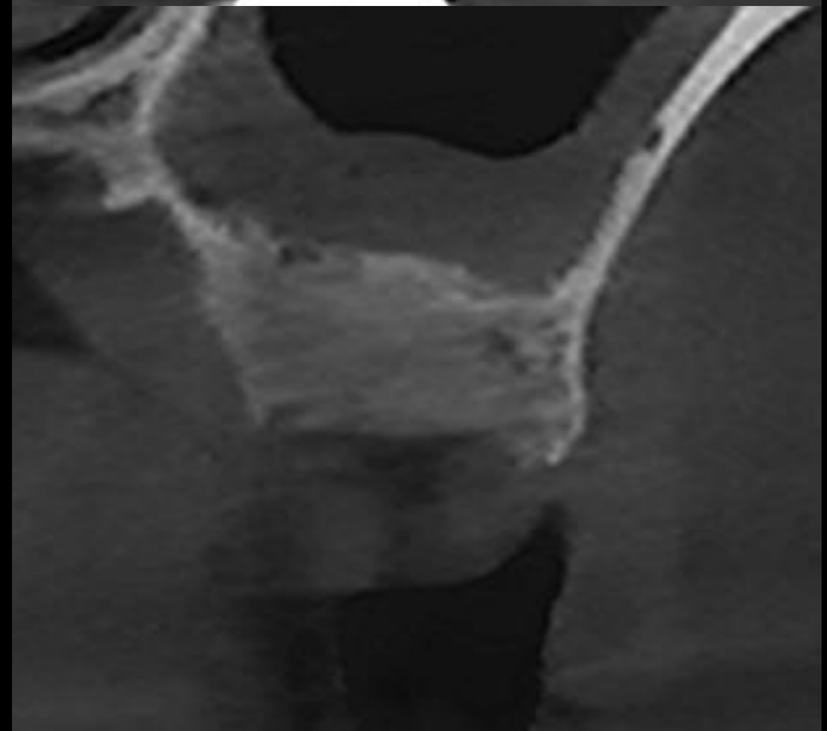

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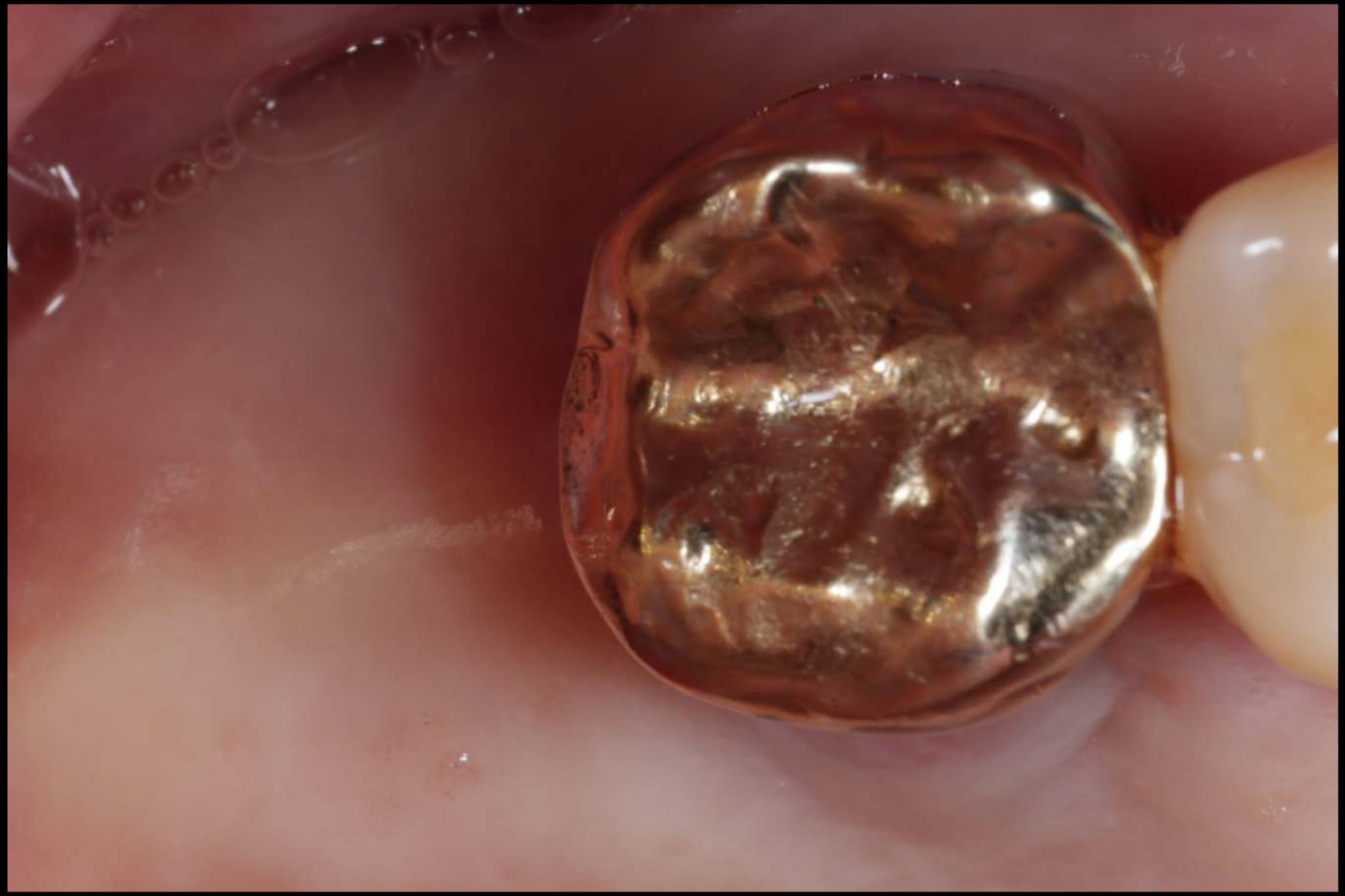
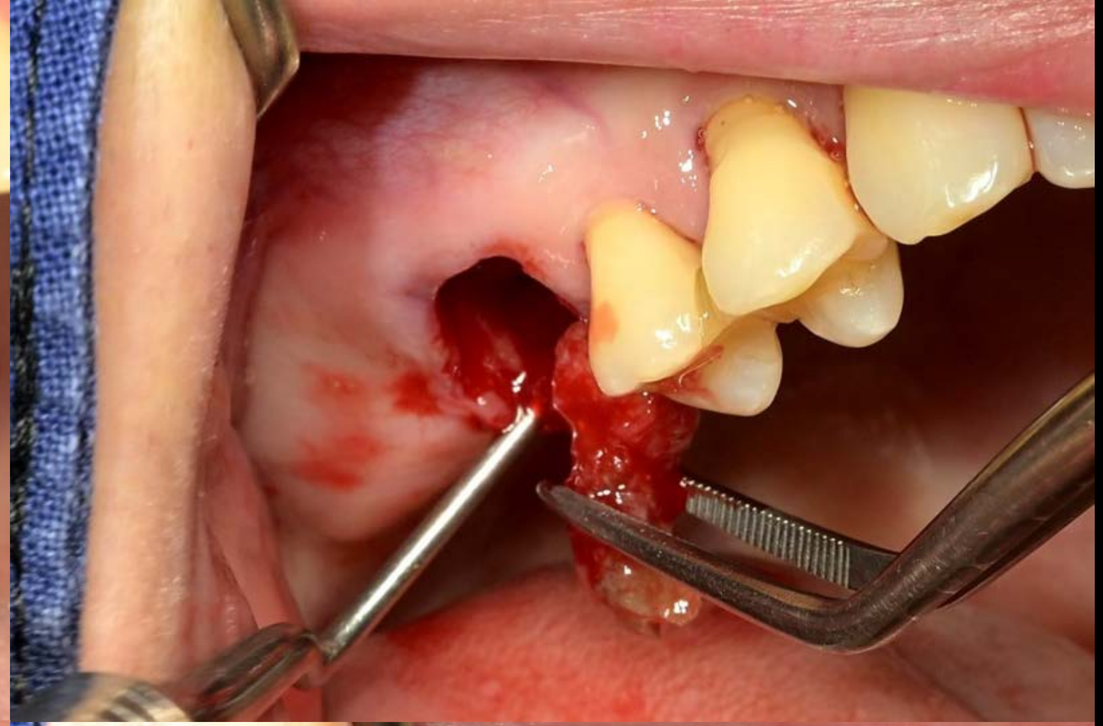
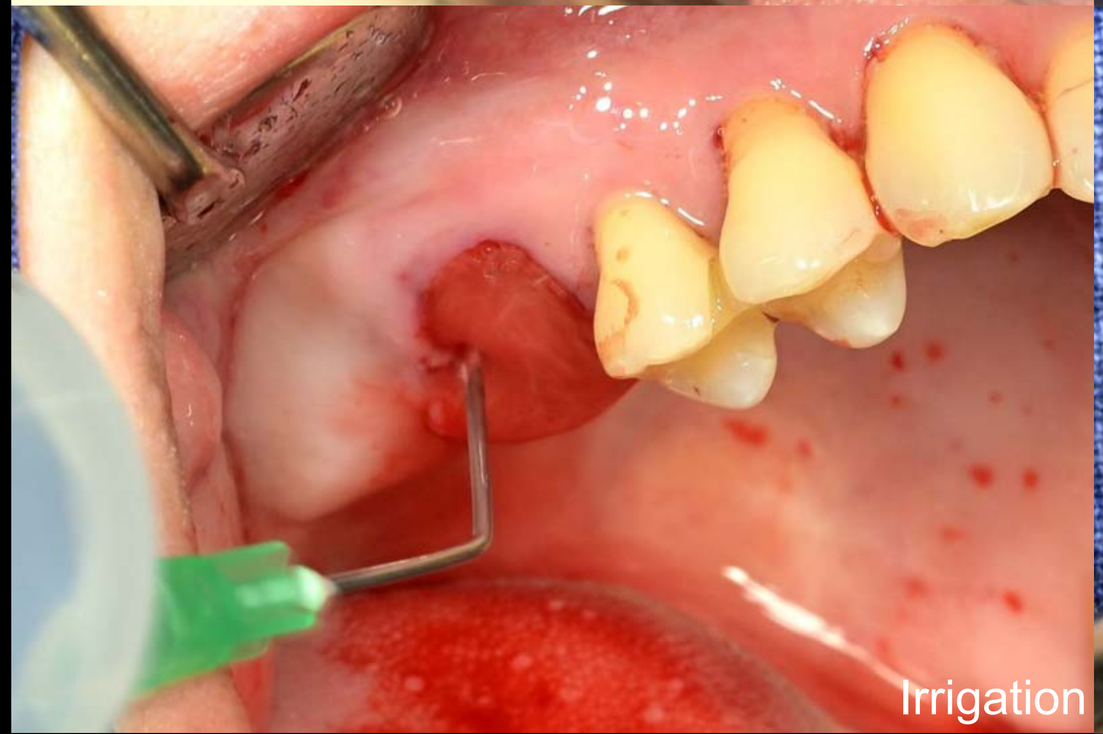


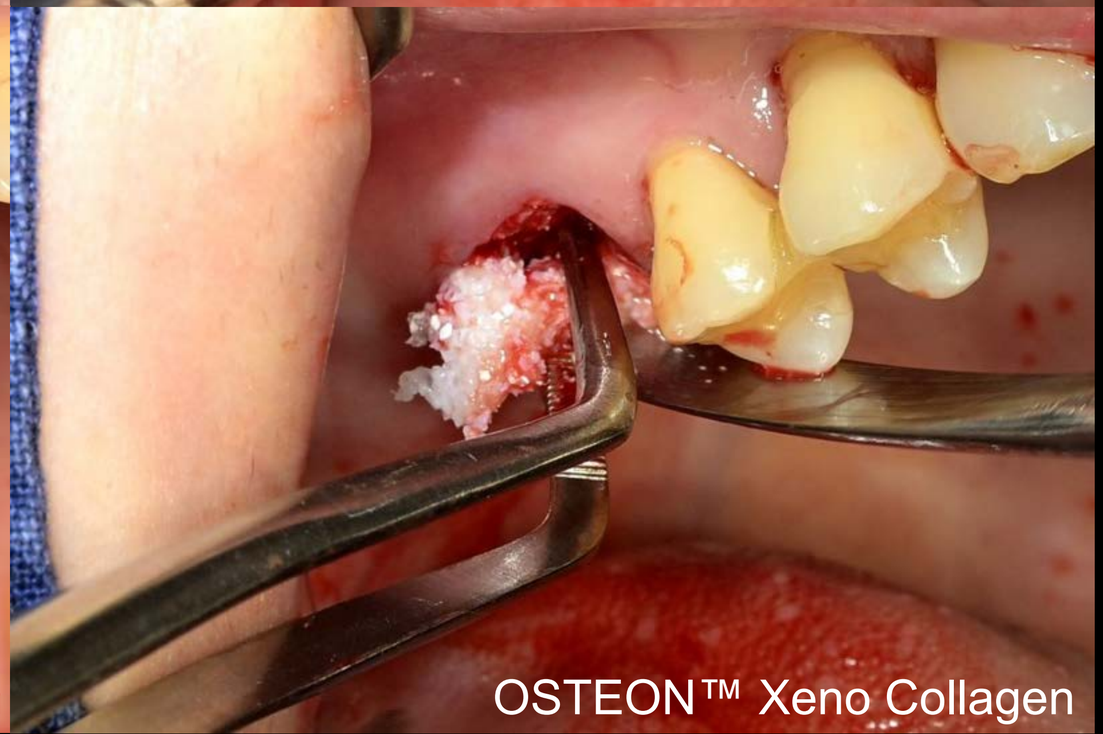
Surgery (2025-10-28)

Extraction



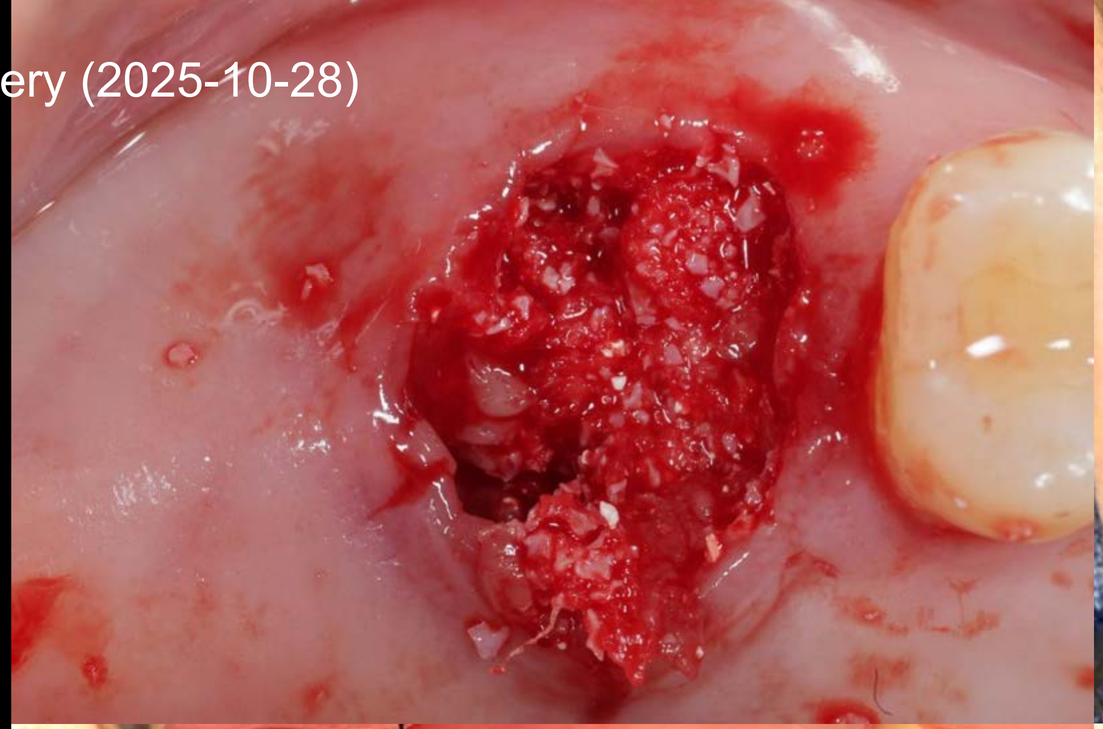


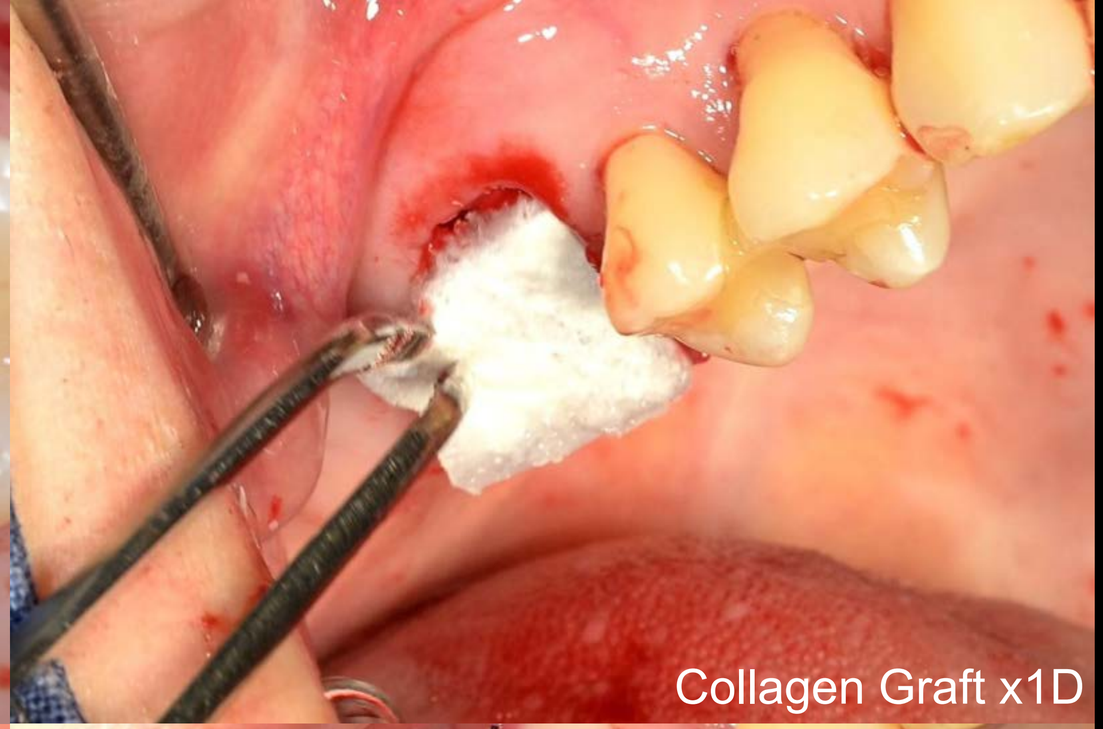
Irrigation



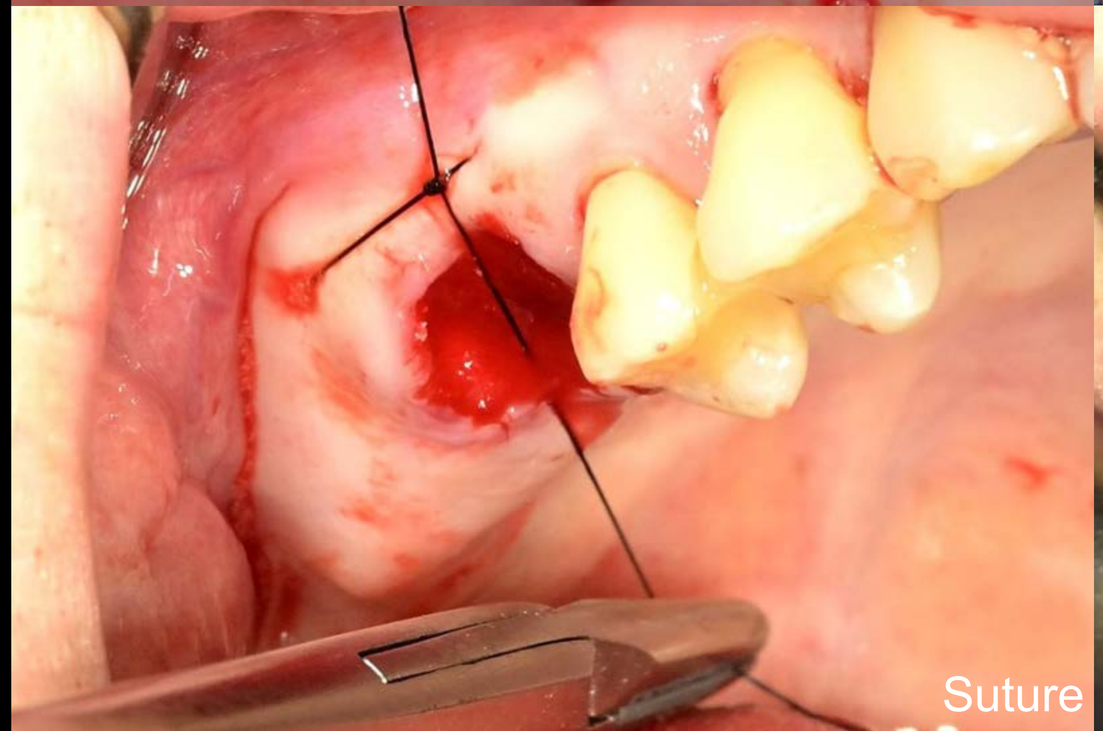
OSTEON™ Xeno Collagen

Surgery (2025-10-28)

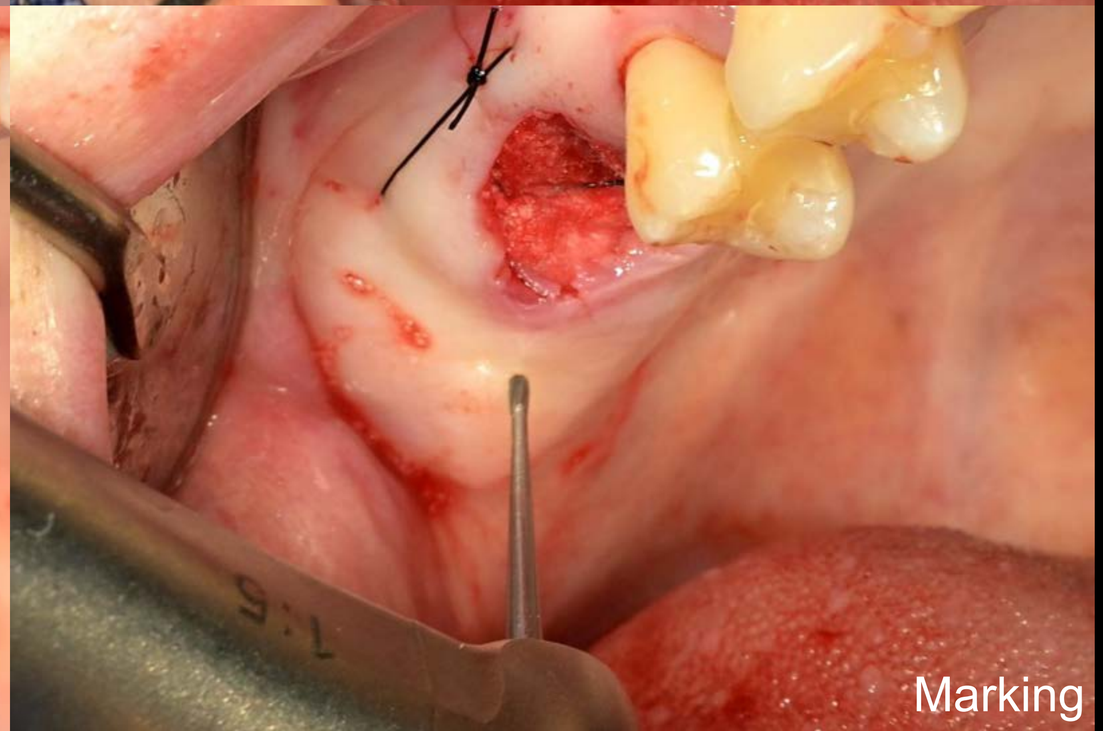




Collagen Graft x1D

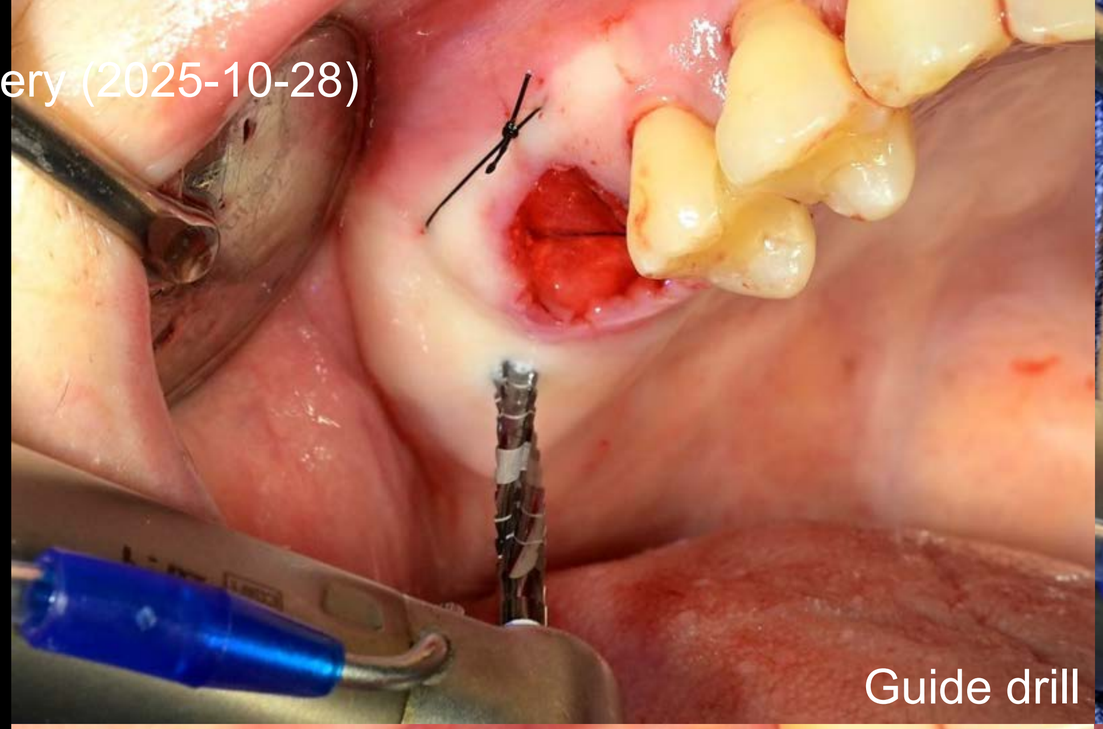


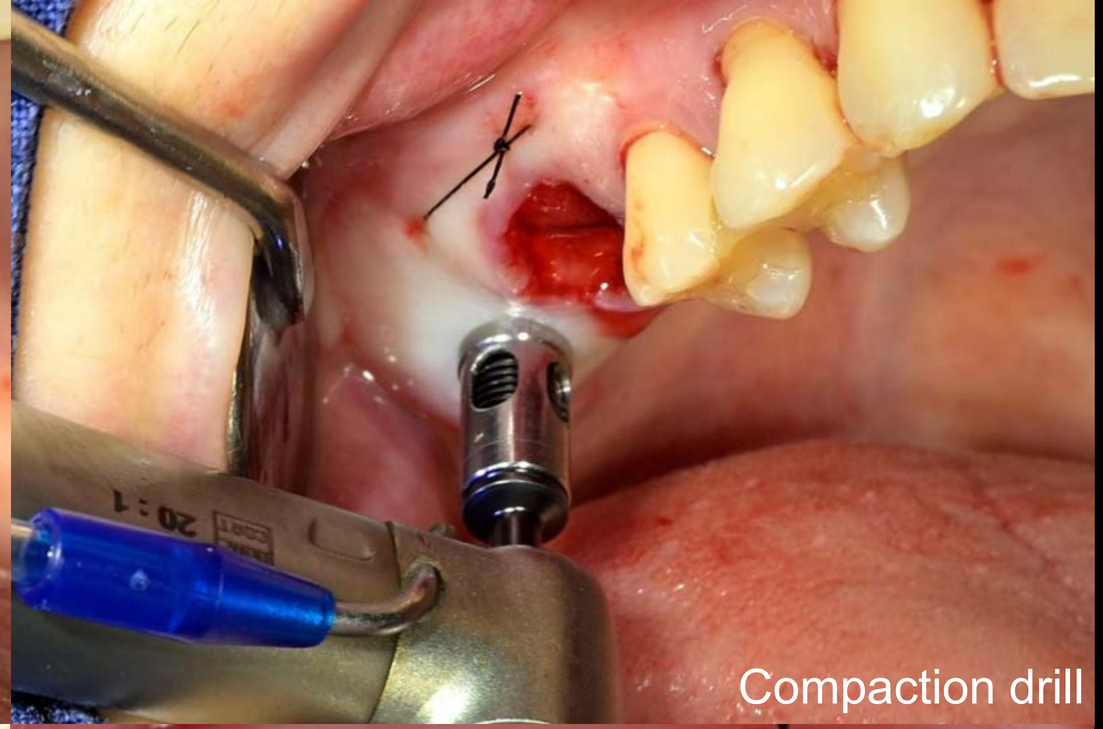
Suture

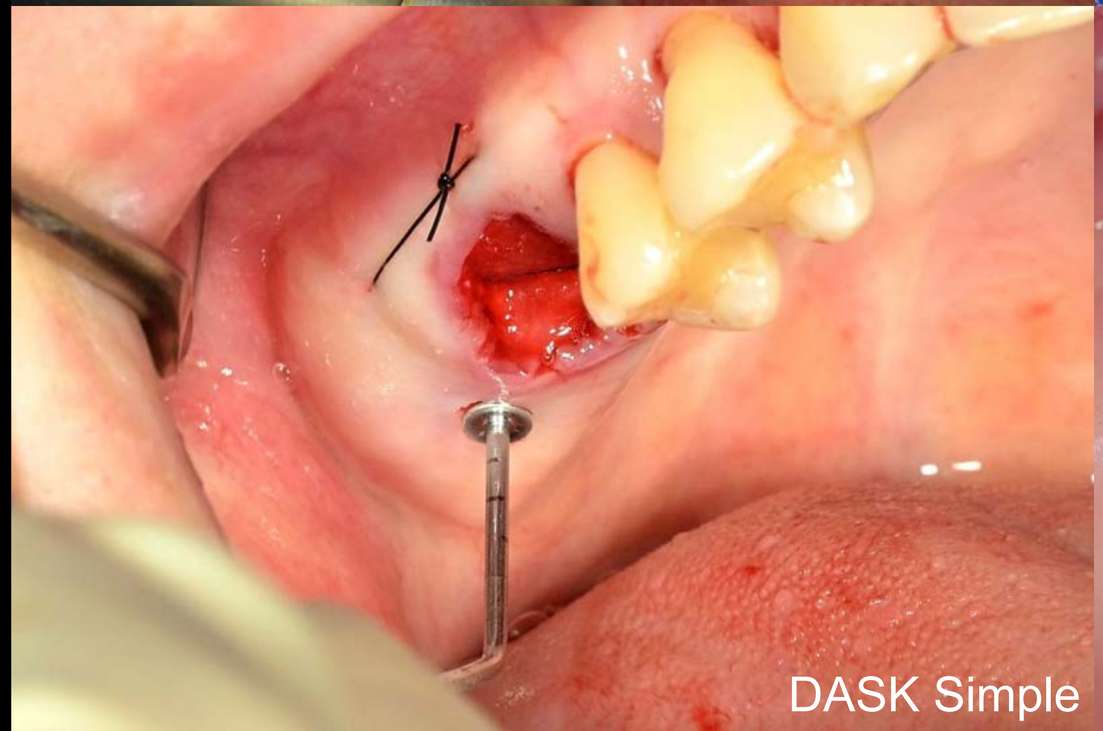


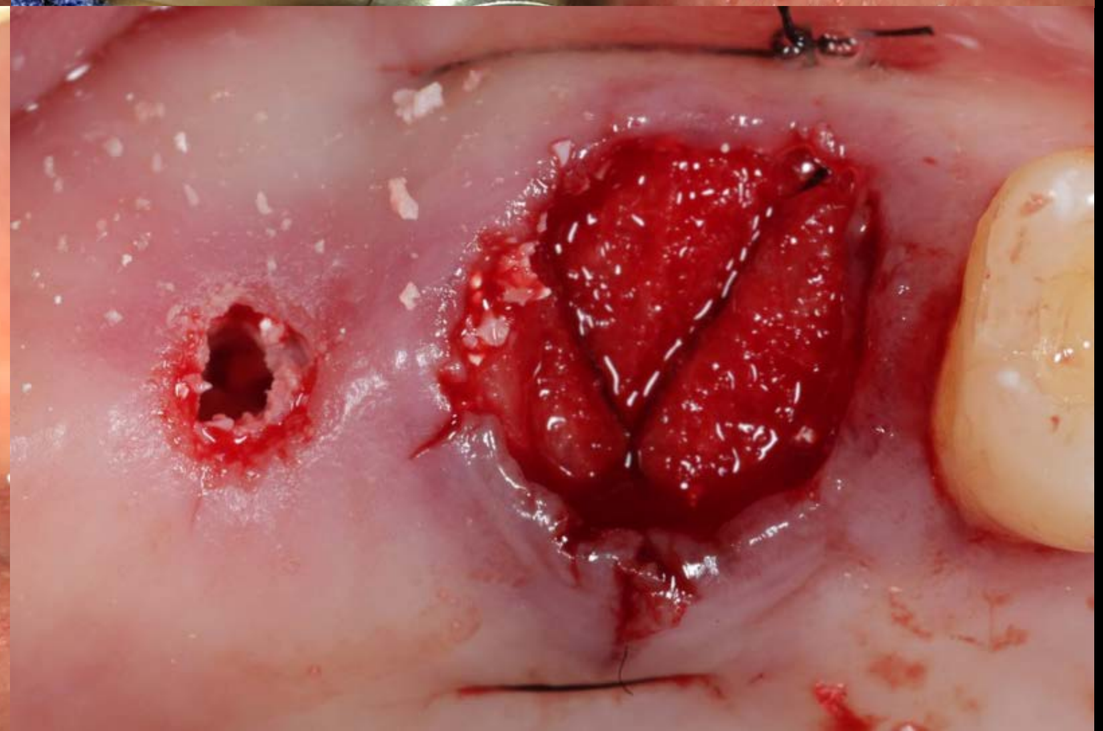
Marking

Surgery (2025-10-28)

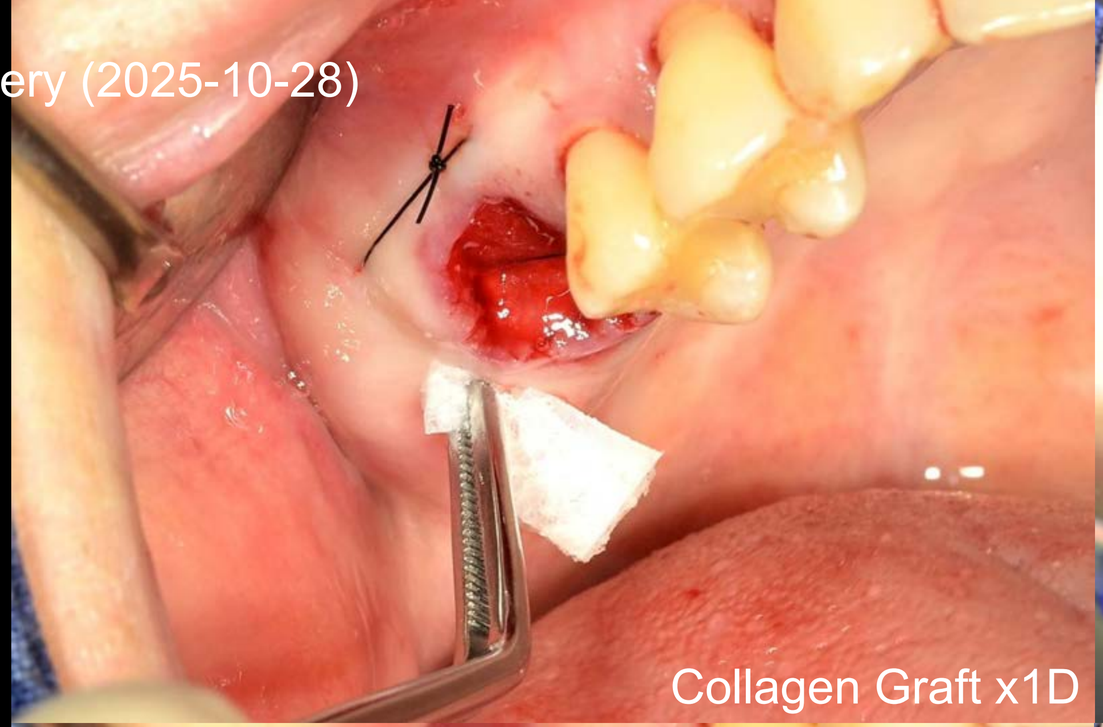

Guide drill


Compaction drill

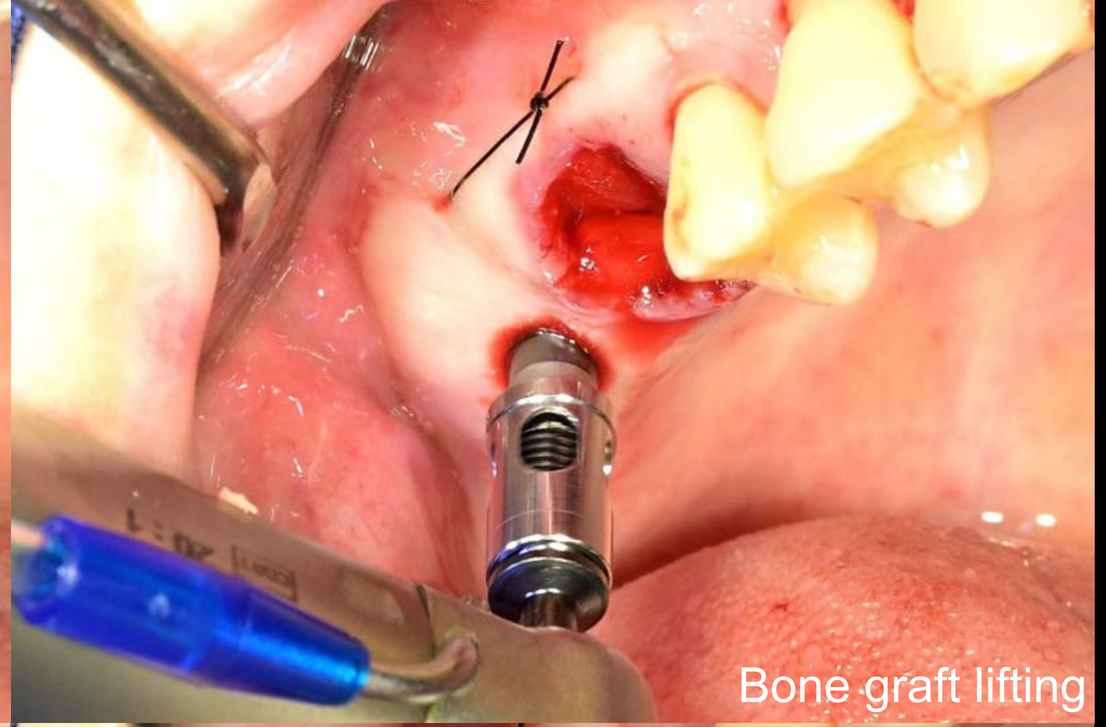

DASK Simple



Surgery (2025-10-28)

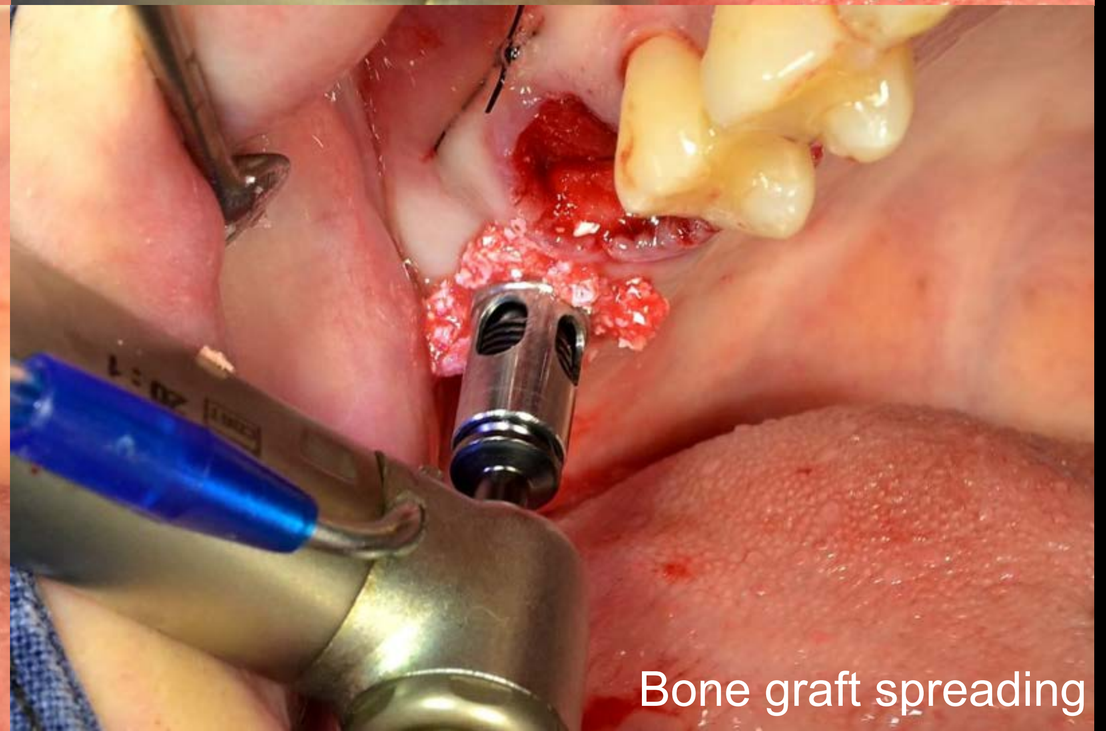


Collagen Graft x1D



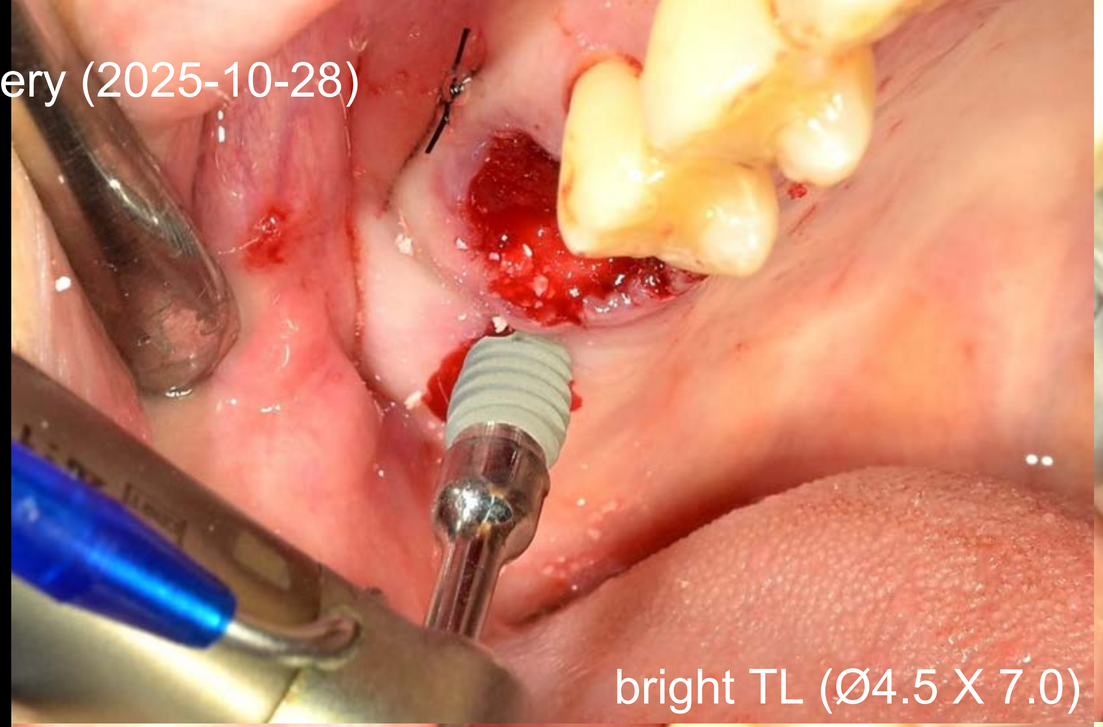
Bone graft lifting

OSTEON™ Xeno Collagen

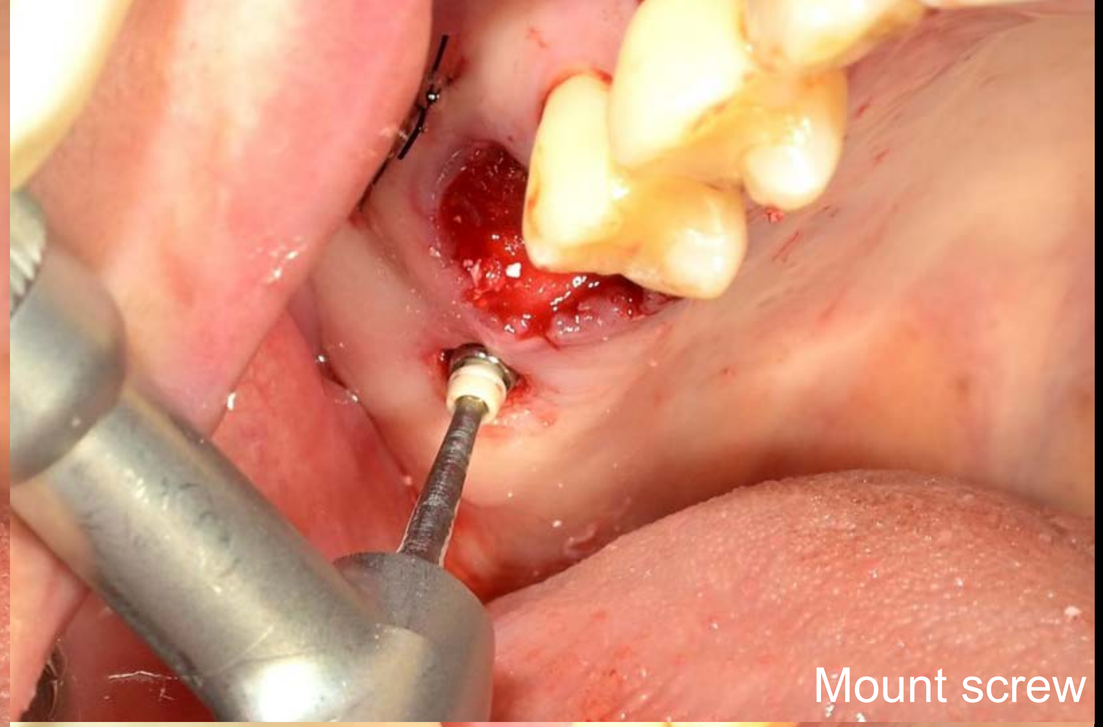


Bone graft spreading

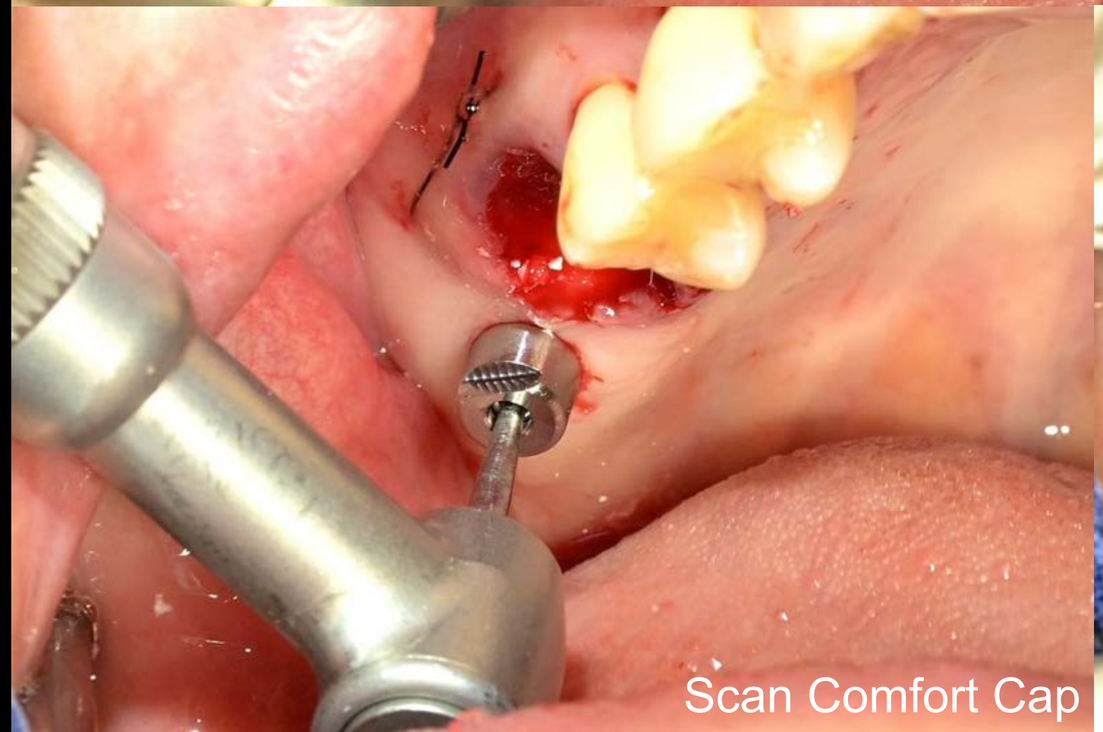
Surgery (2025-10-28)



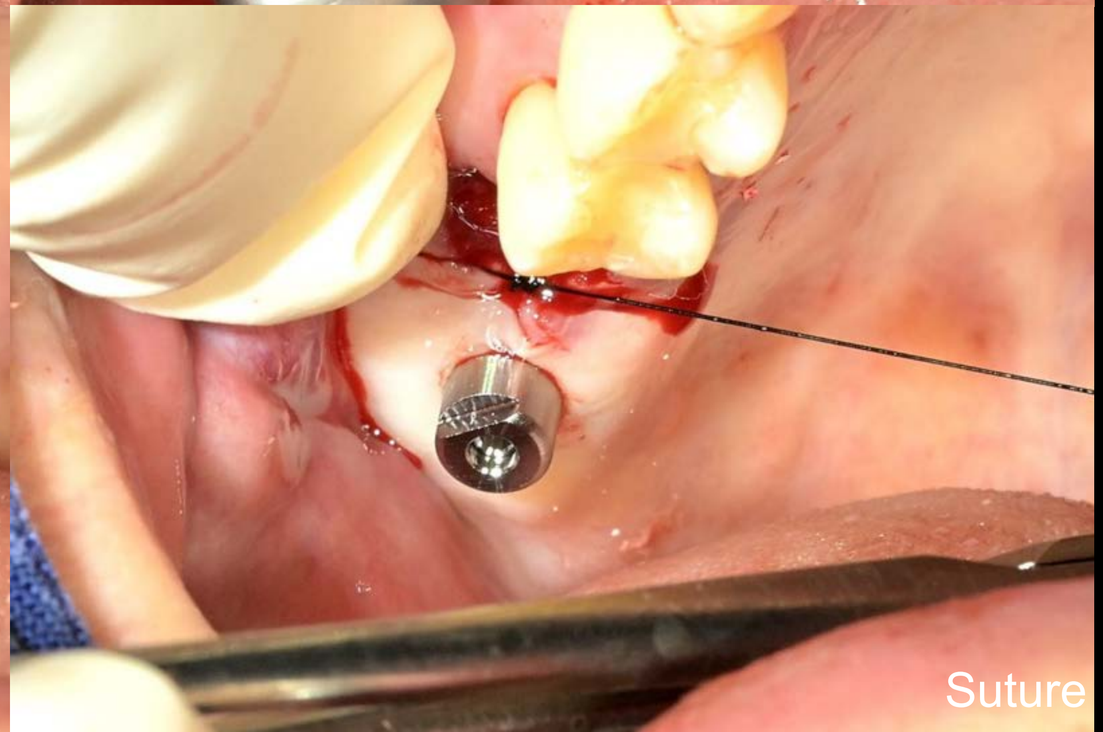
bright TL (Ø4.5 X 7.0)



Mount screw

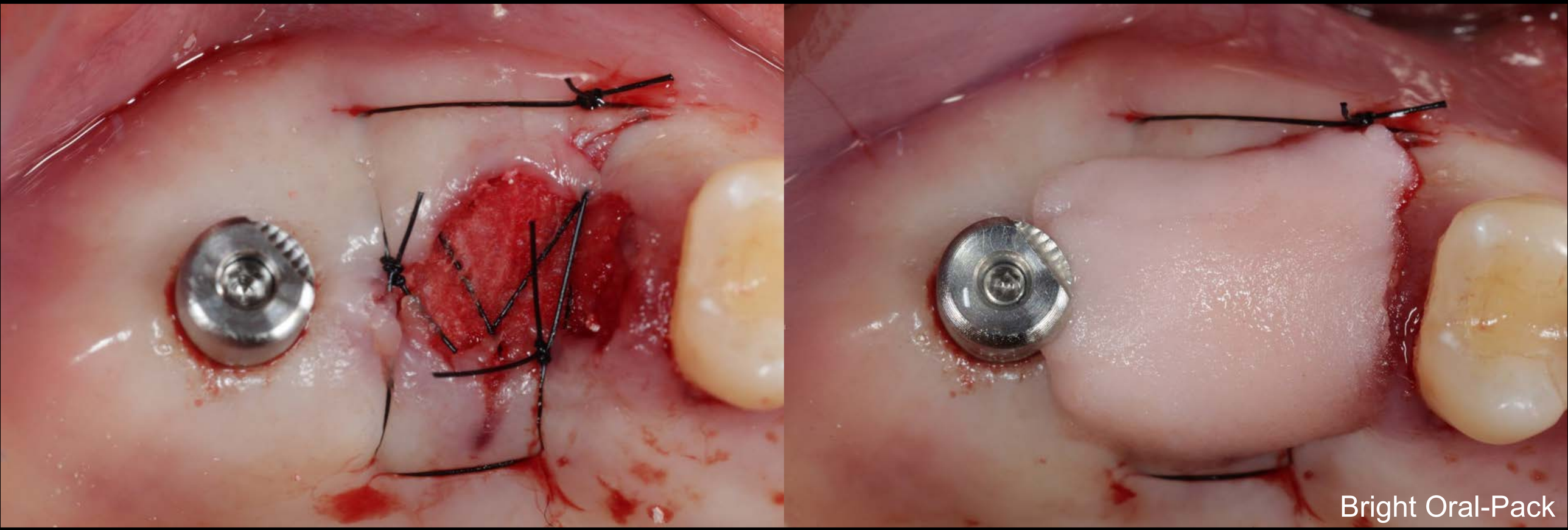


Scan Comfort Cap



Suture

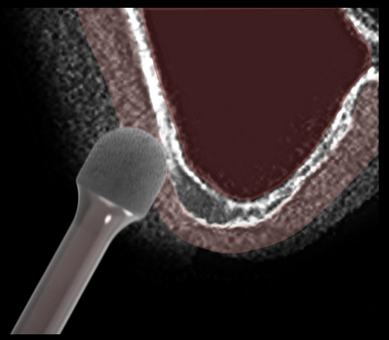
Post-op (2025-10-28)



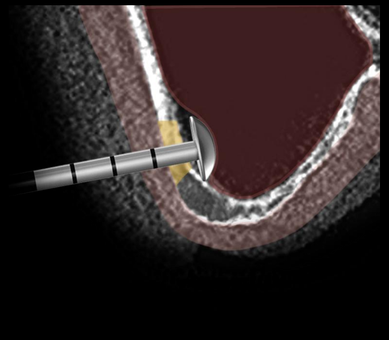
Lateral Approach

Residual bone height 1~3 mm

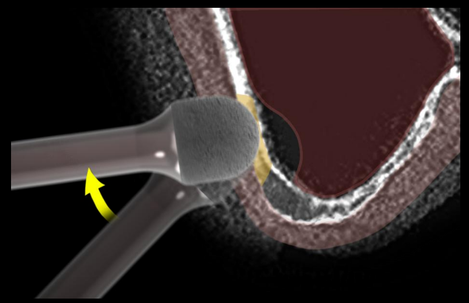
Dentium



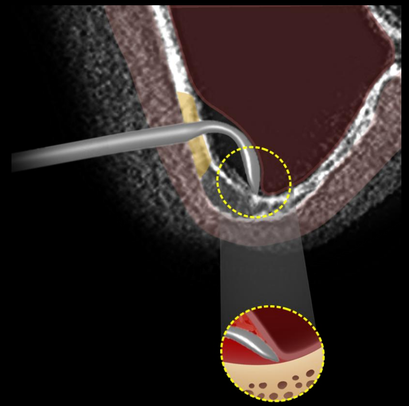
Lateral wall grinding

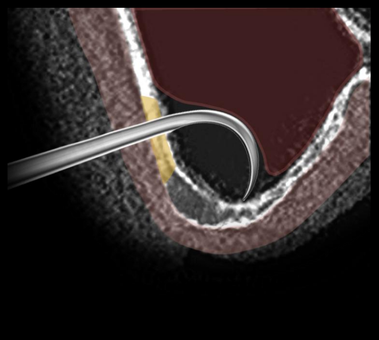


Initial detaching

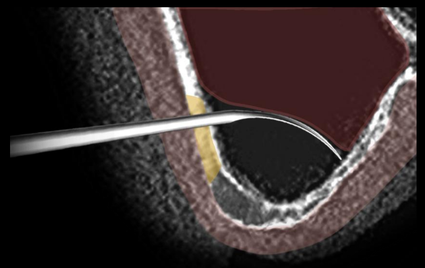


Lateral wall grinding wider

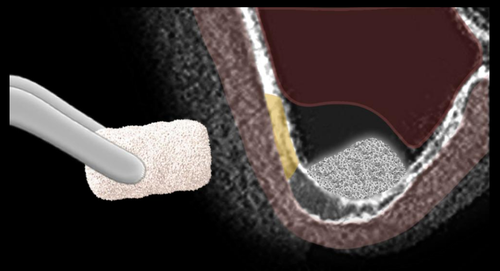




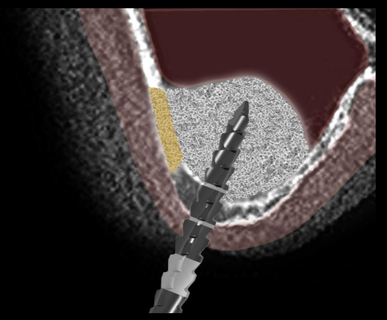
Membrane detaching



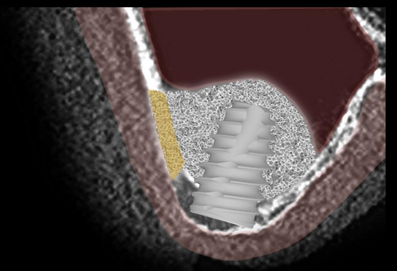
Membrane detaching



Bone graft material filling



Drilling

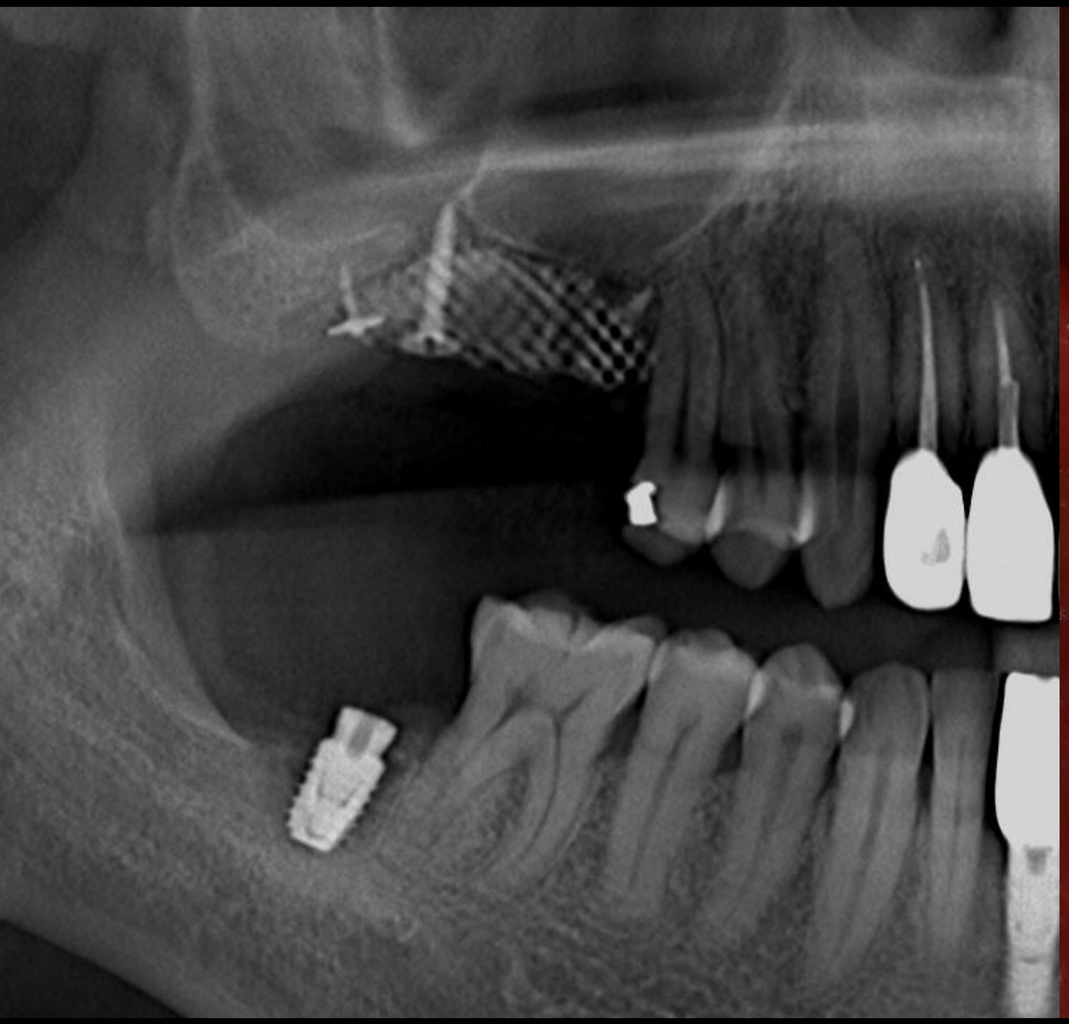


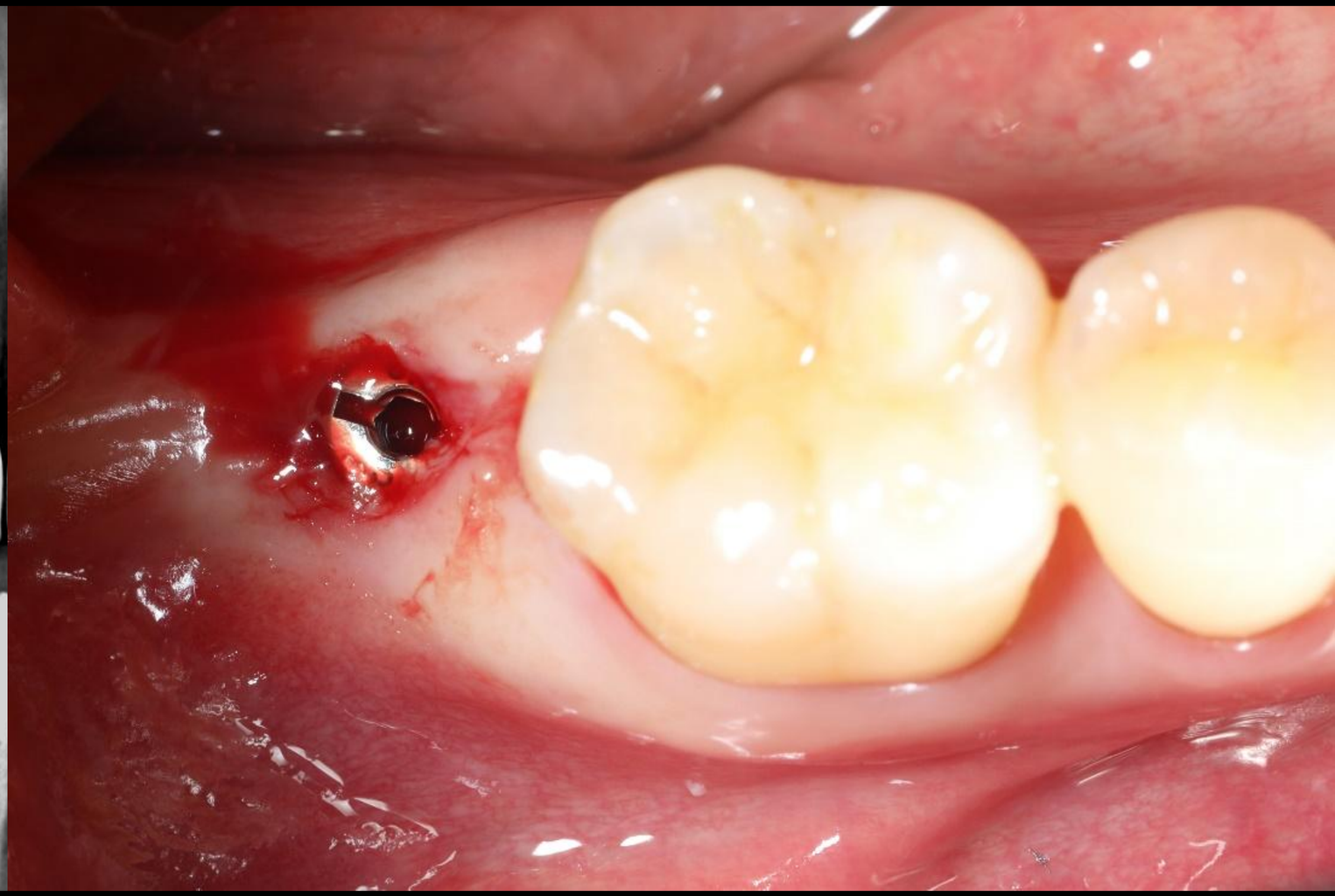
Implantation

Overcoming sinus membrane perforation
with Collagen graft x1D
Dentium Dental Clinic
Dr. SM Chung
** 280p Surgery VOD 6

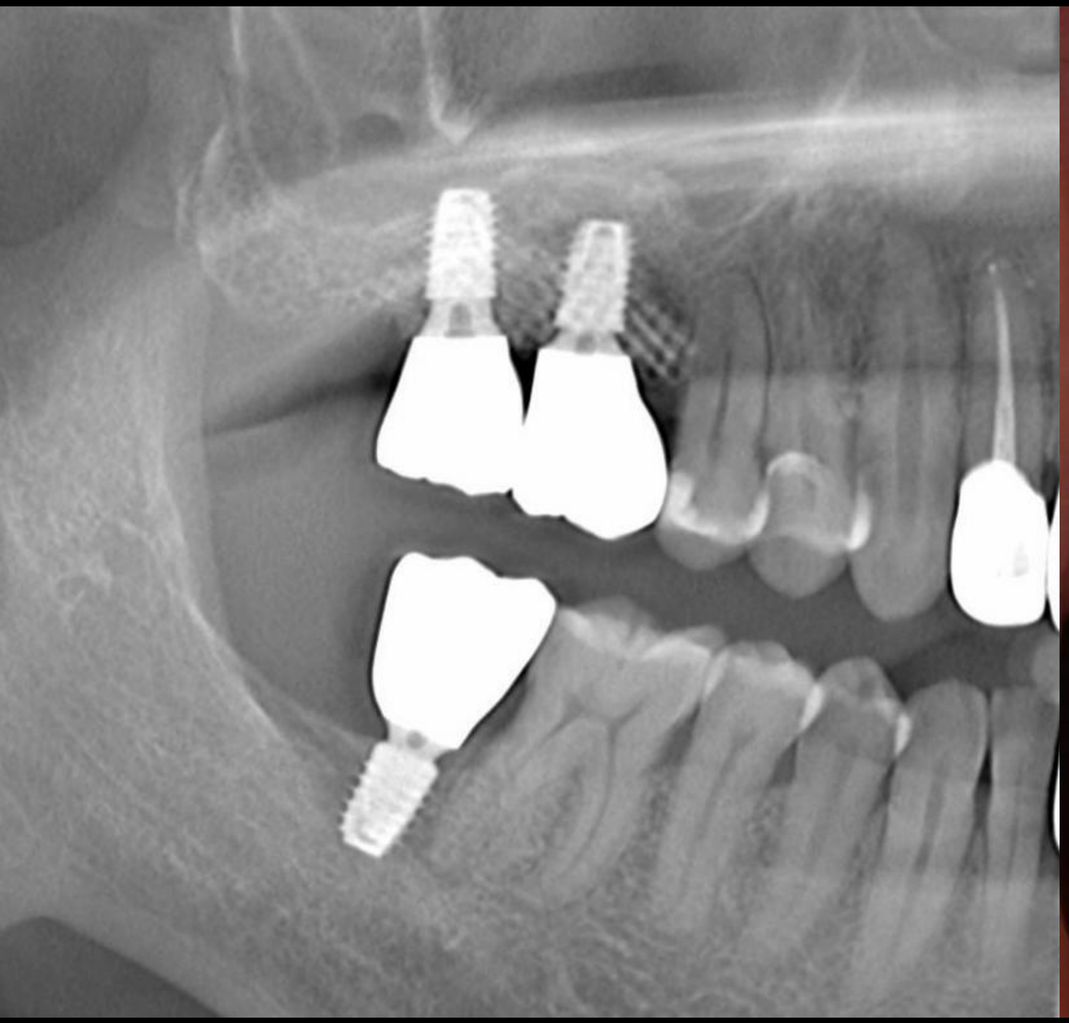
Simple & Clear Lateral approach
with DASK Simple
Dentium dental clinic
Dr. SM Chung
** 280p Surgery VOD 7

Post-op (2018-11-19)





Final prosthesis (2020-07-23)



Contents

Bright implant

Narrow and short implants

Bone regeneration materials

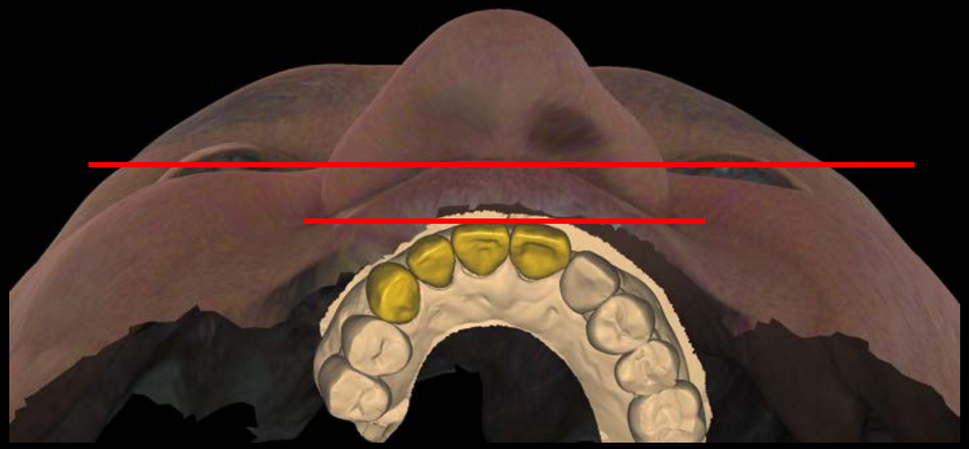
Simple and exact digital concepts

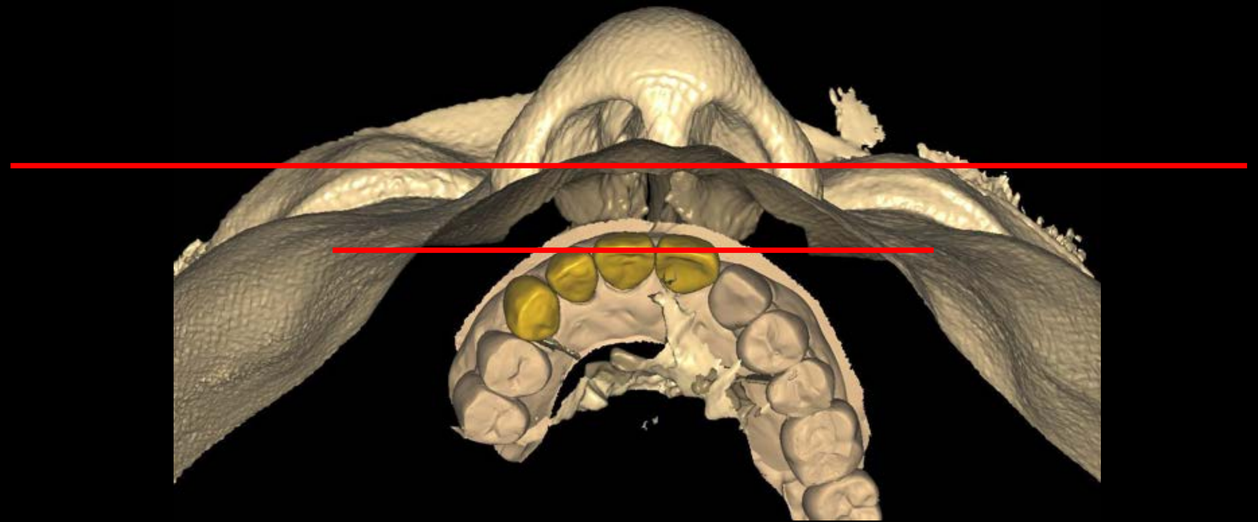
Filler and toxin in dental field

Facial scanner vs CT data application

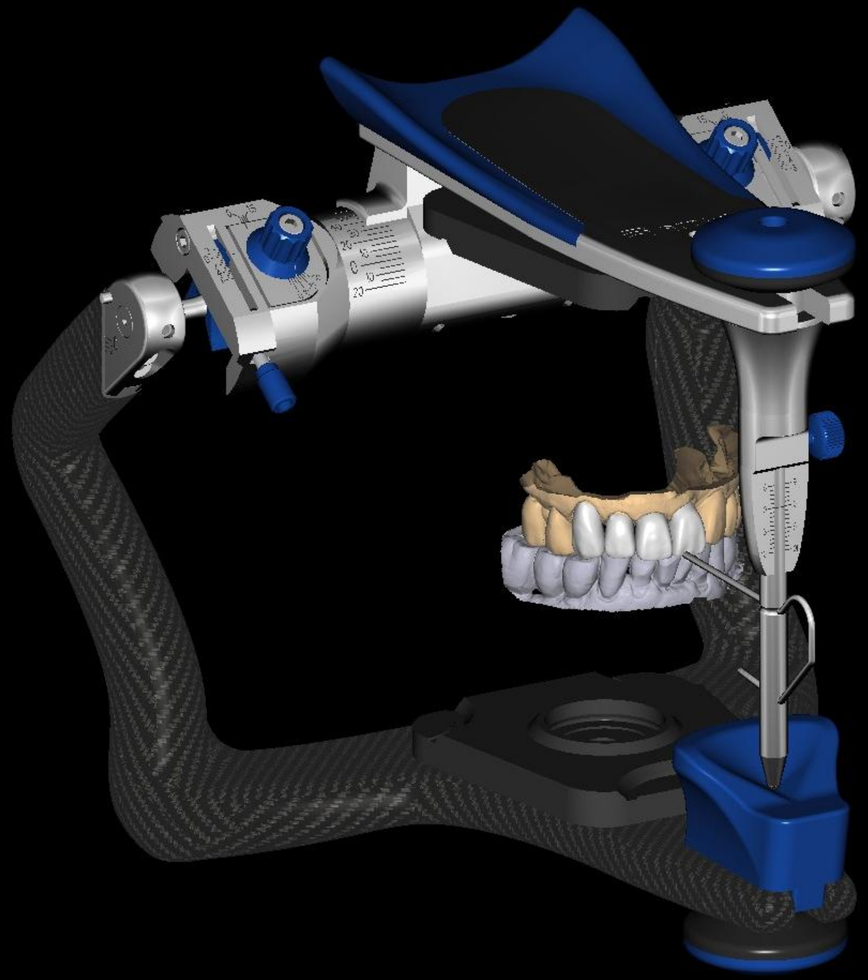
Facial scanner
Good for pts consulting

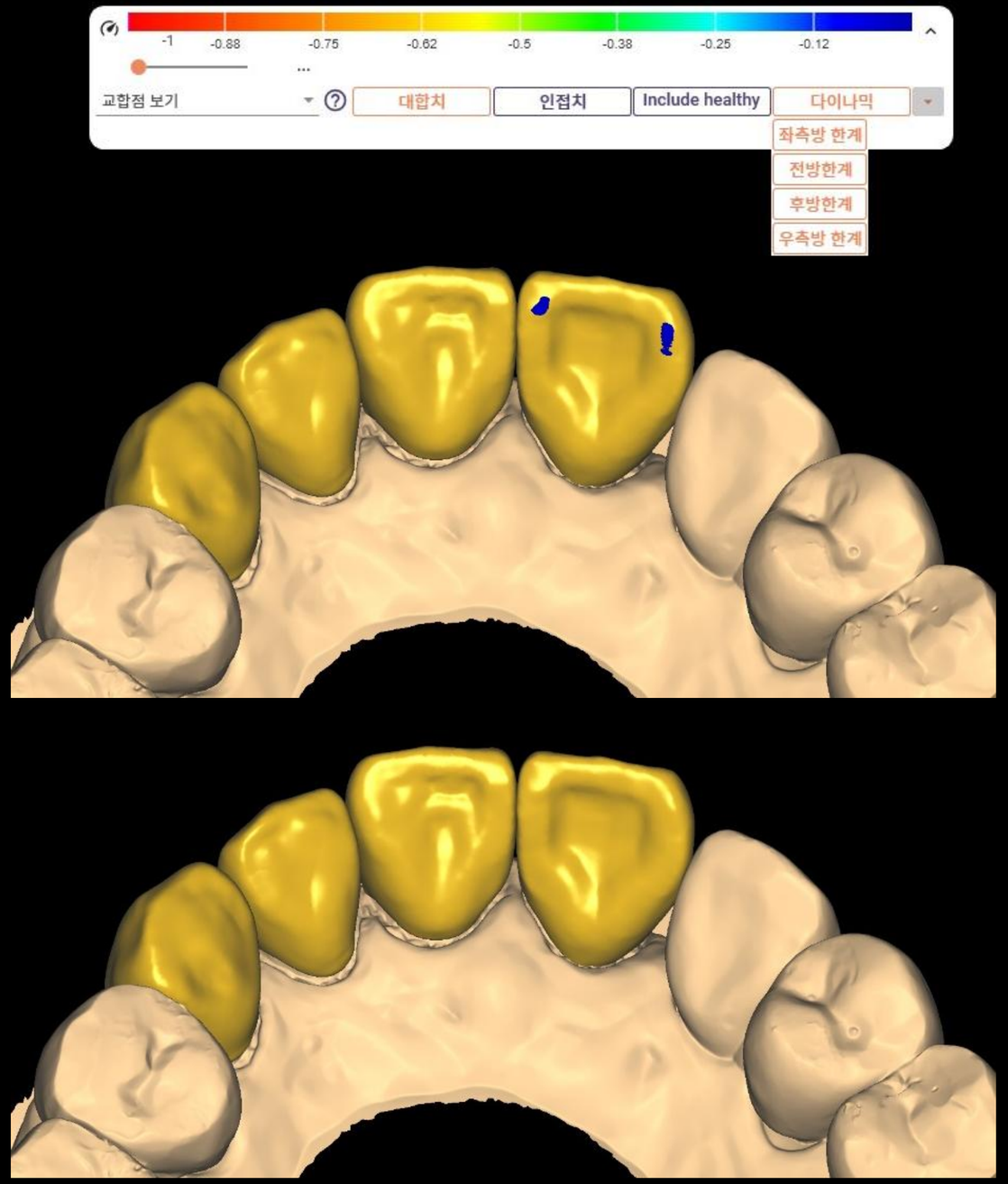
CT STL
more precise for lab



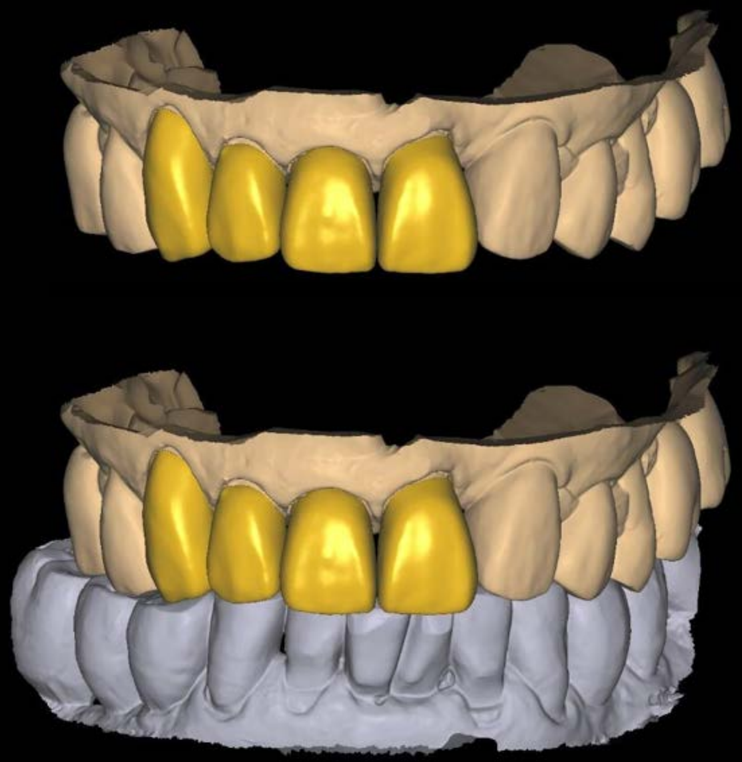


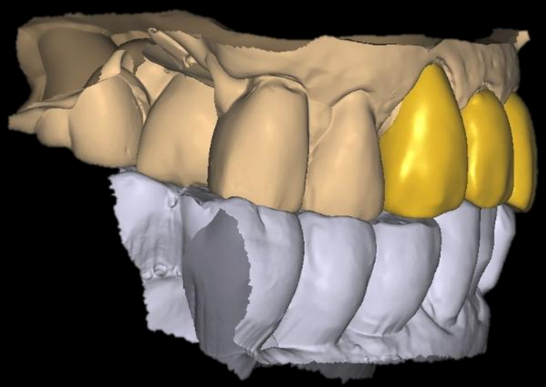
Prosthesis design



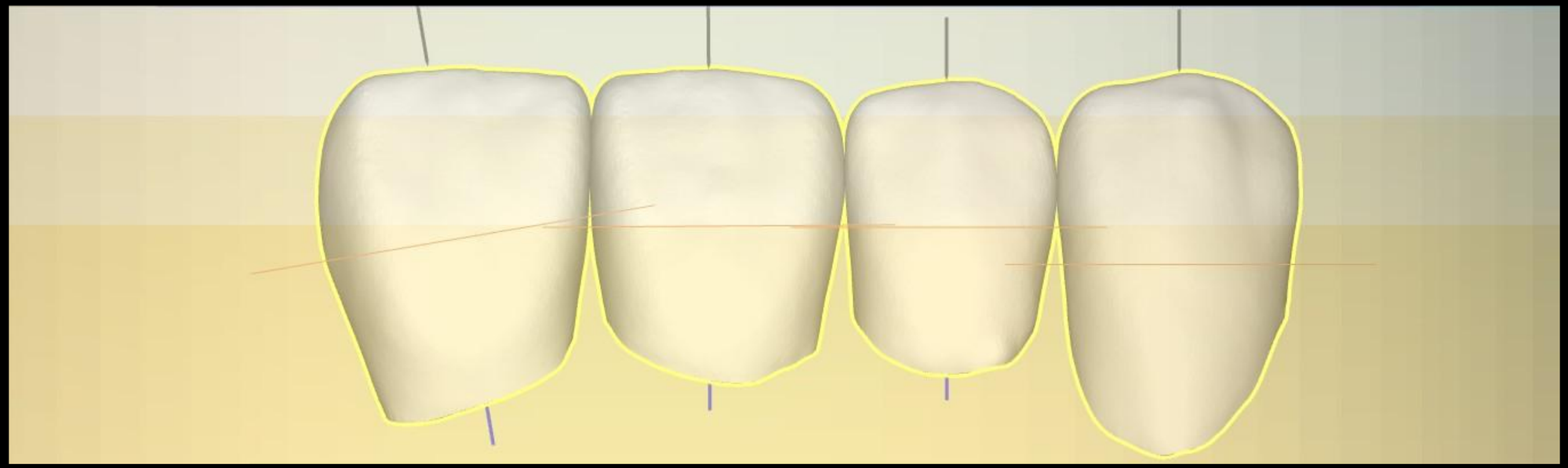


Prosthesis design





Hyper Dent



A3 18T 3 Layer Block

Coloring

Inner – White Opaque

Safe approach based on evidence

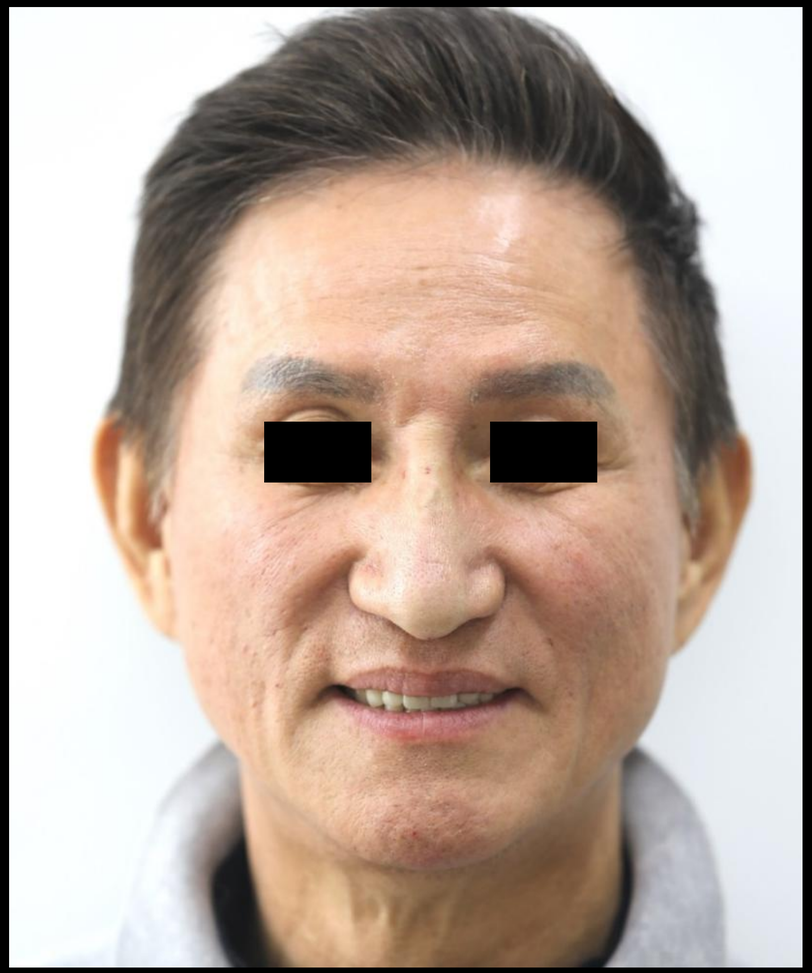
Dynamic approach based on inspiration

New field over dentistry

Toxin and filler, PDRN

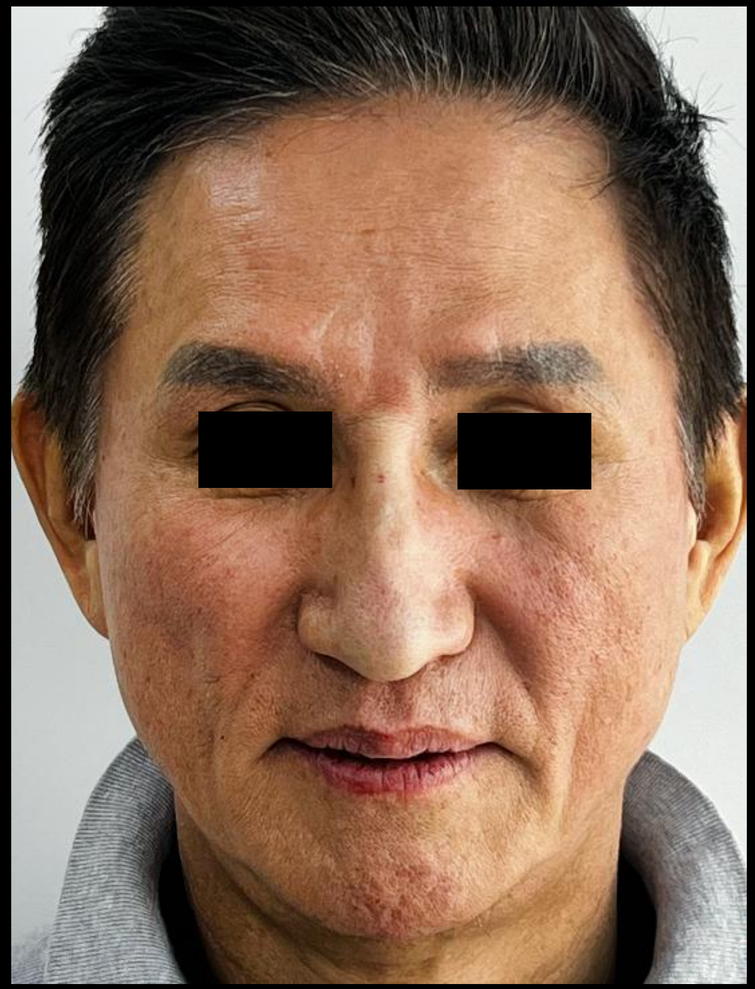
Prosthesis design

bright 3 Layer A3

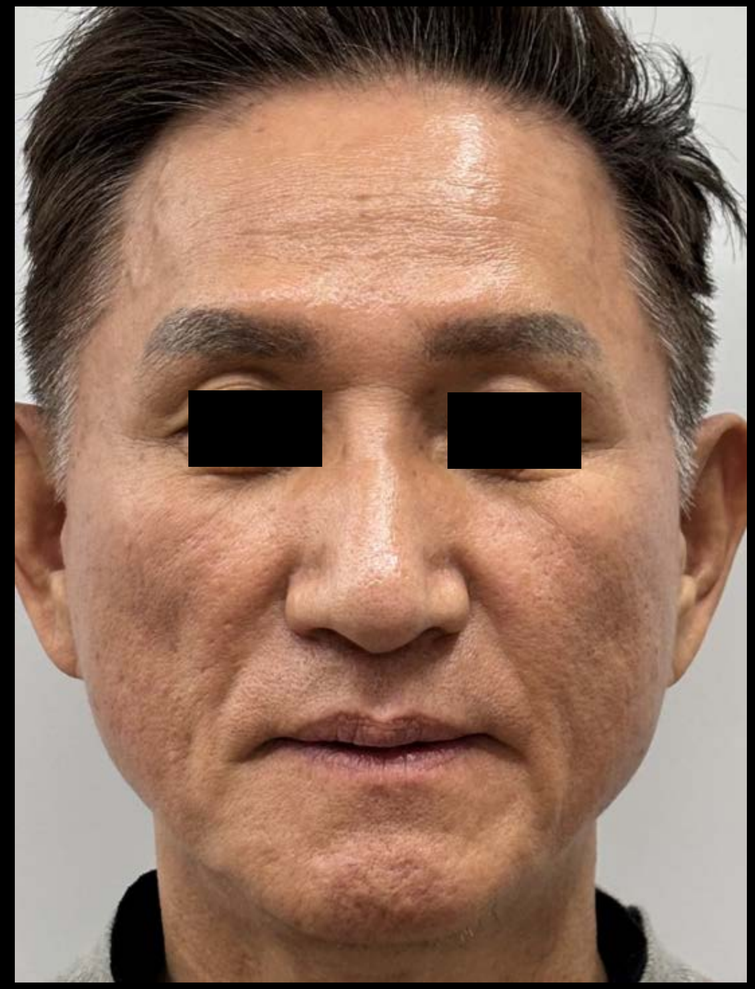


Before

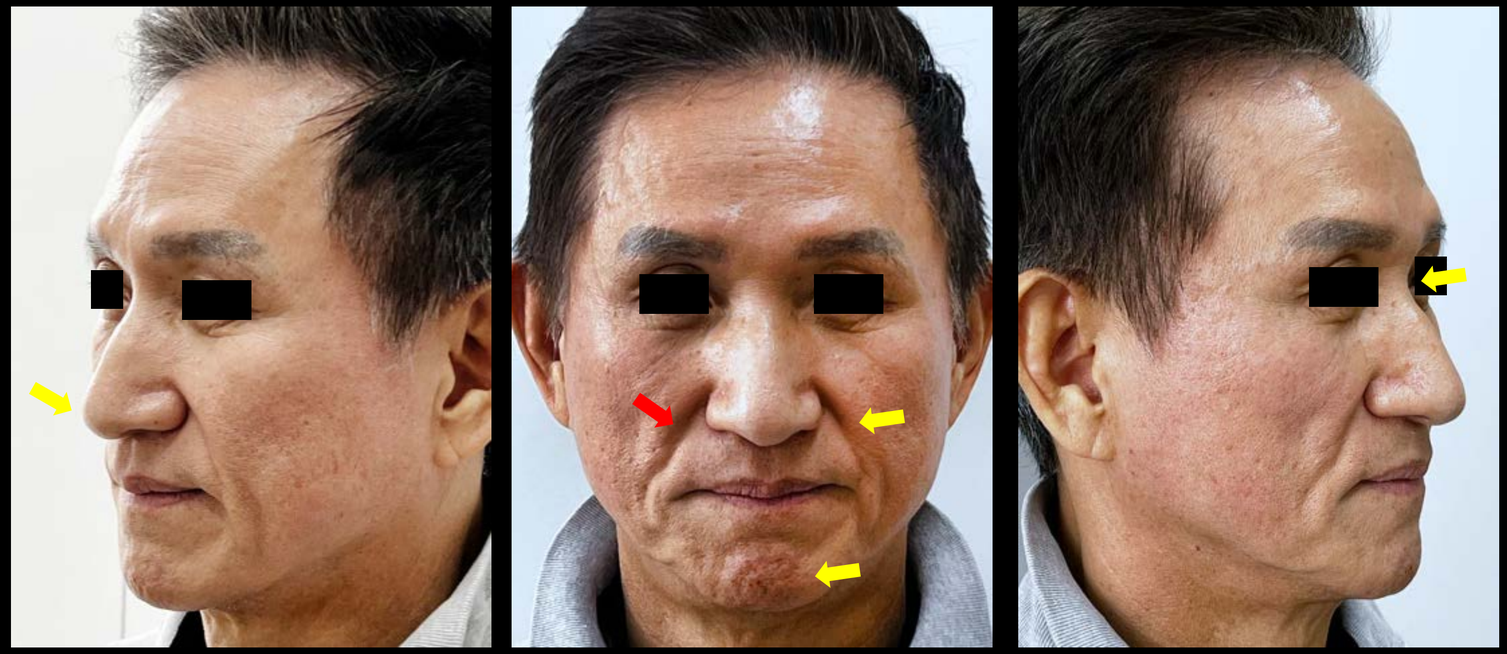
After



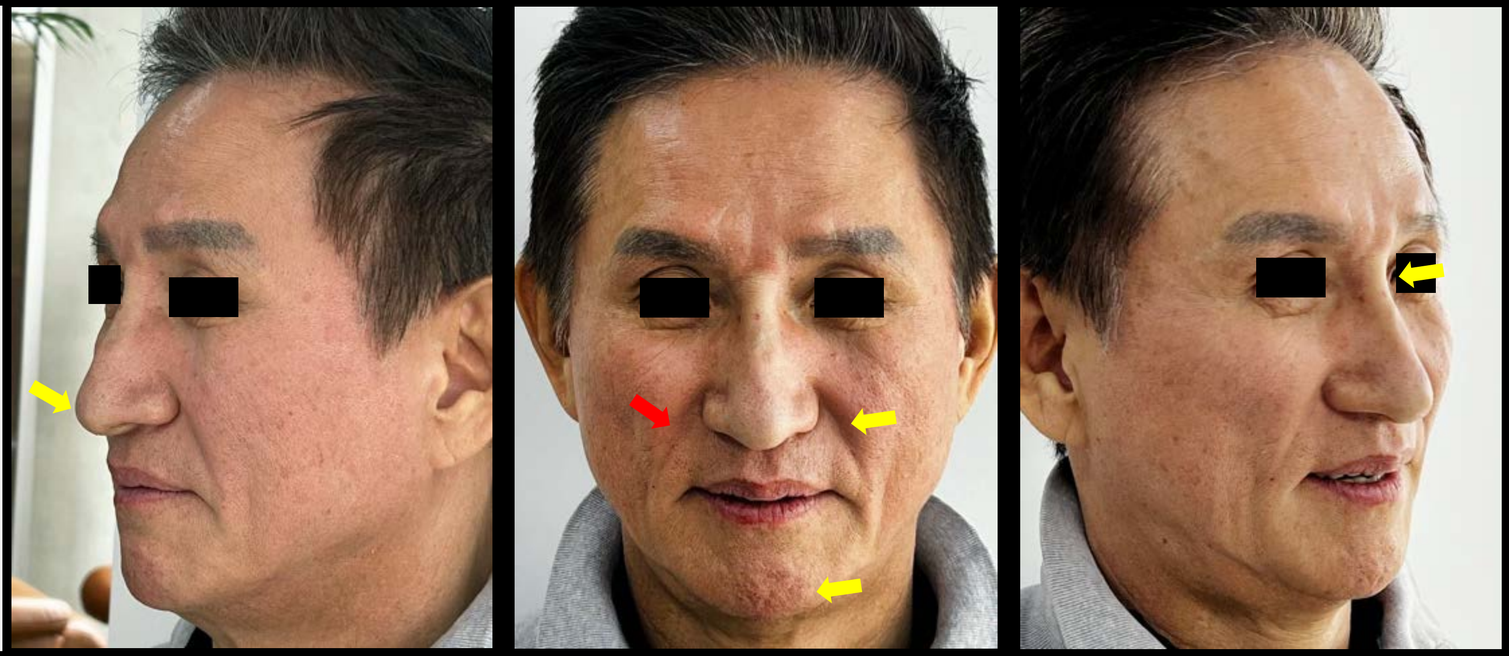
1 month later



Before



After



Application site

High ↙
- Nose
- Nasolabial folds
- Chin

Smile ↙
- Nasolabial folds
- Marionette lines

High elastic hyaluronic acid filler

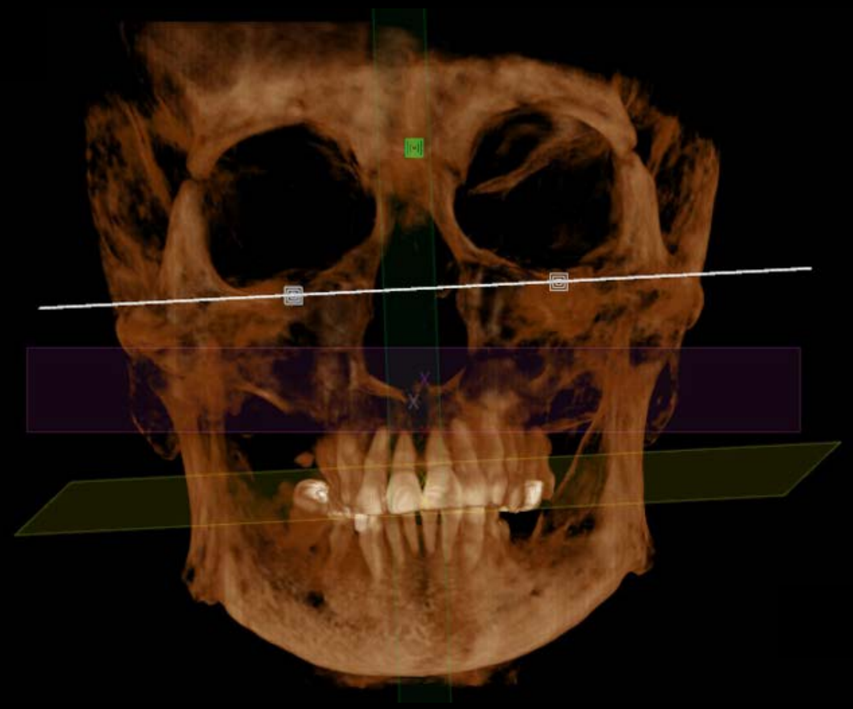
** 293p bright CT VOD 1

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.



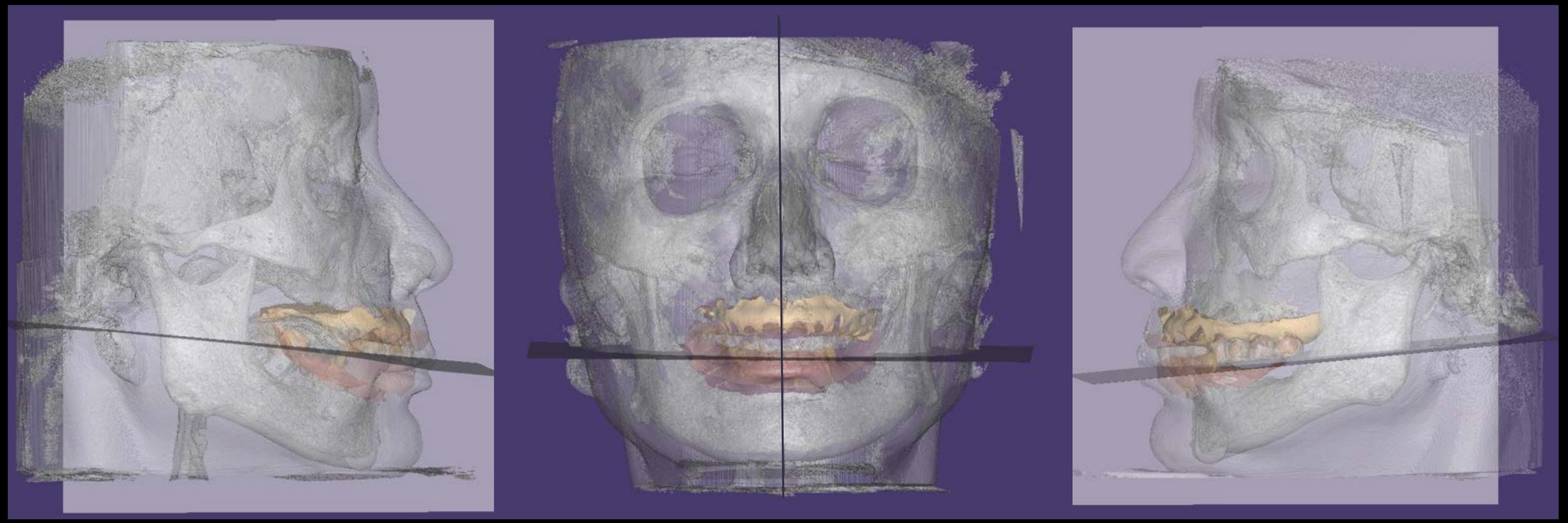
Clinical Case Applications

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.



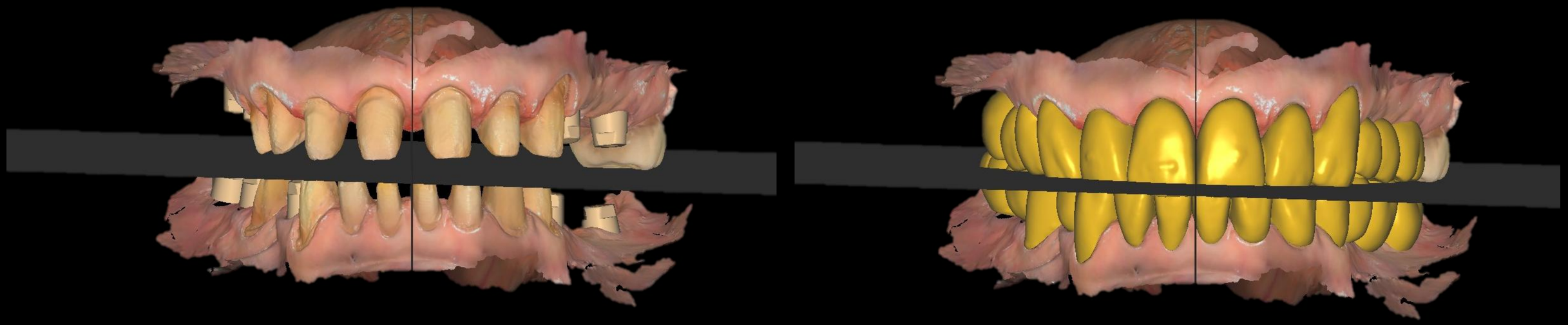
Clinical Case Applications

Implant Cases

2. Advanced Case : AI Occlusal Plane

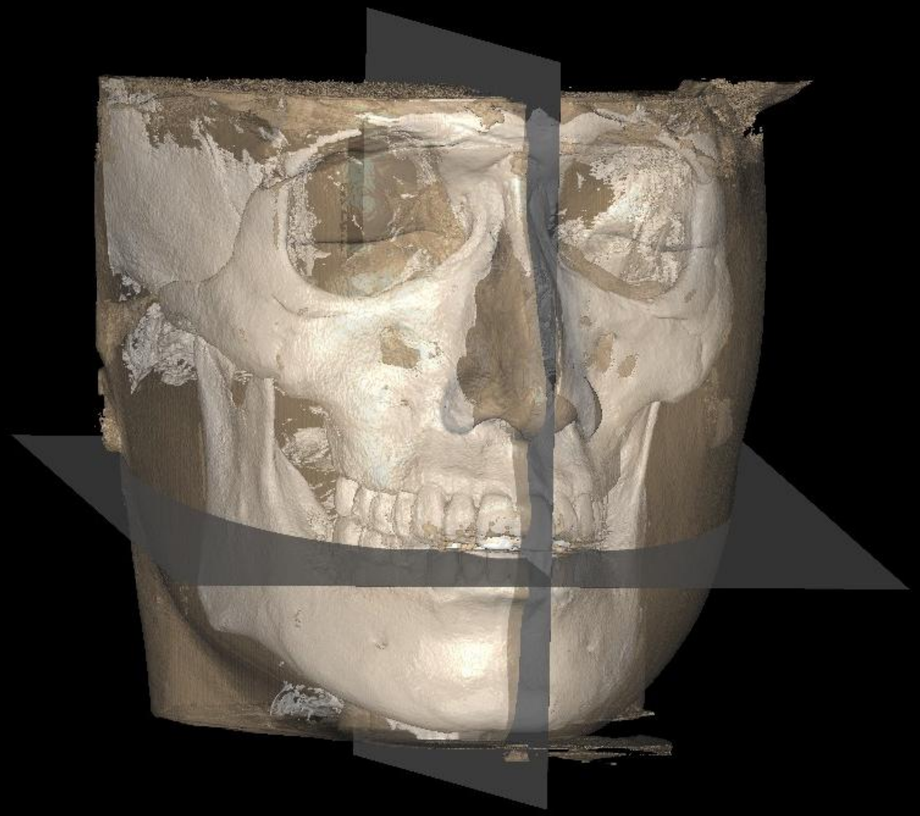
4

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



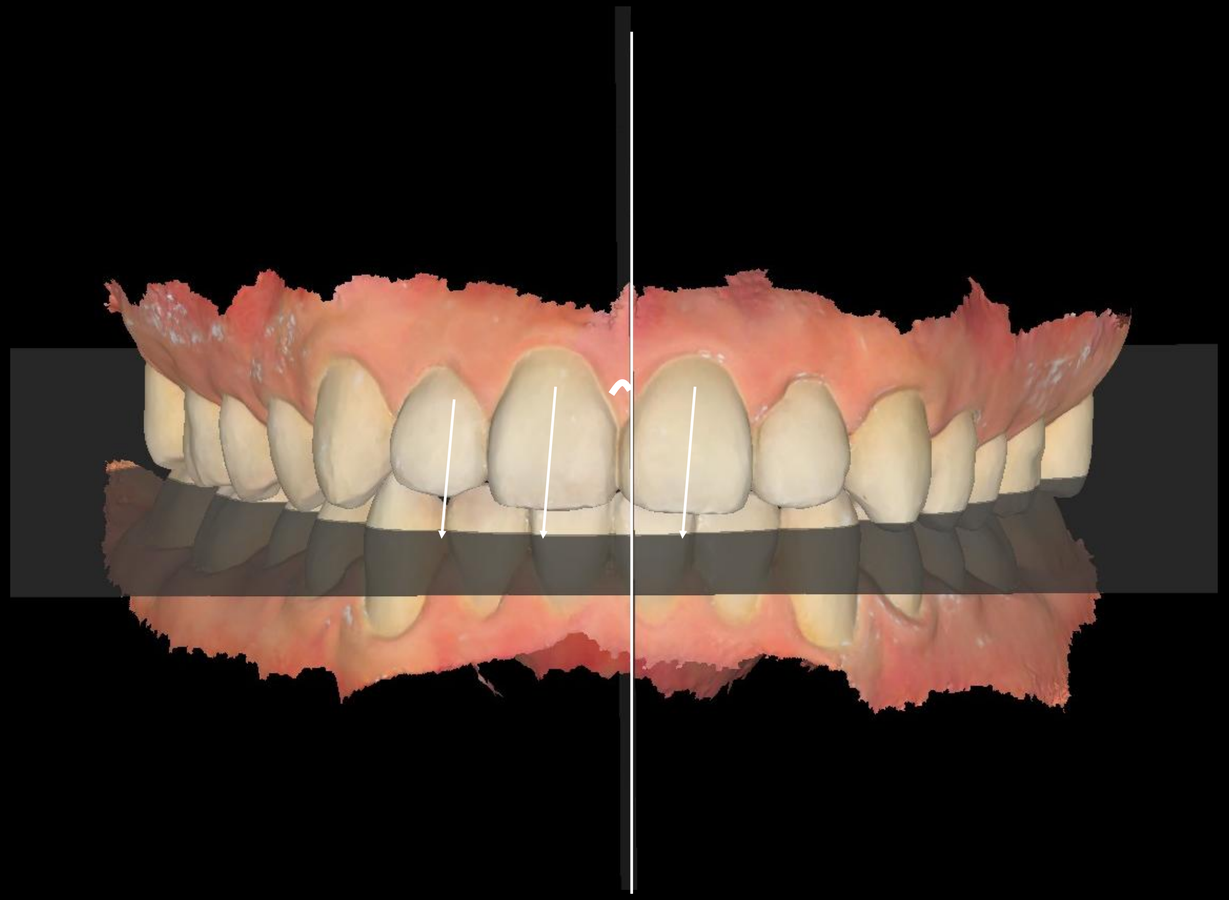
CT data

(AI occlusal plane, Hard & Soft Tissue data)

Shining 3d Elite Ios scan data

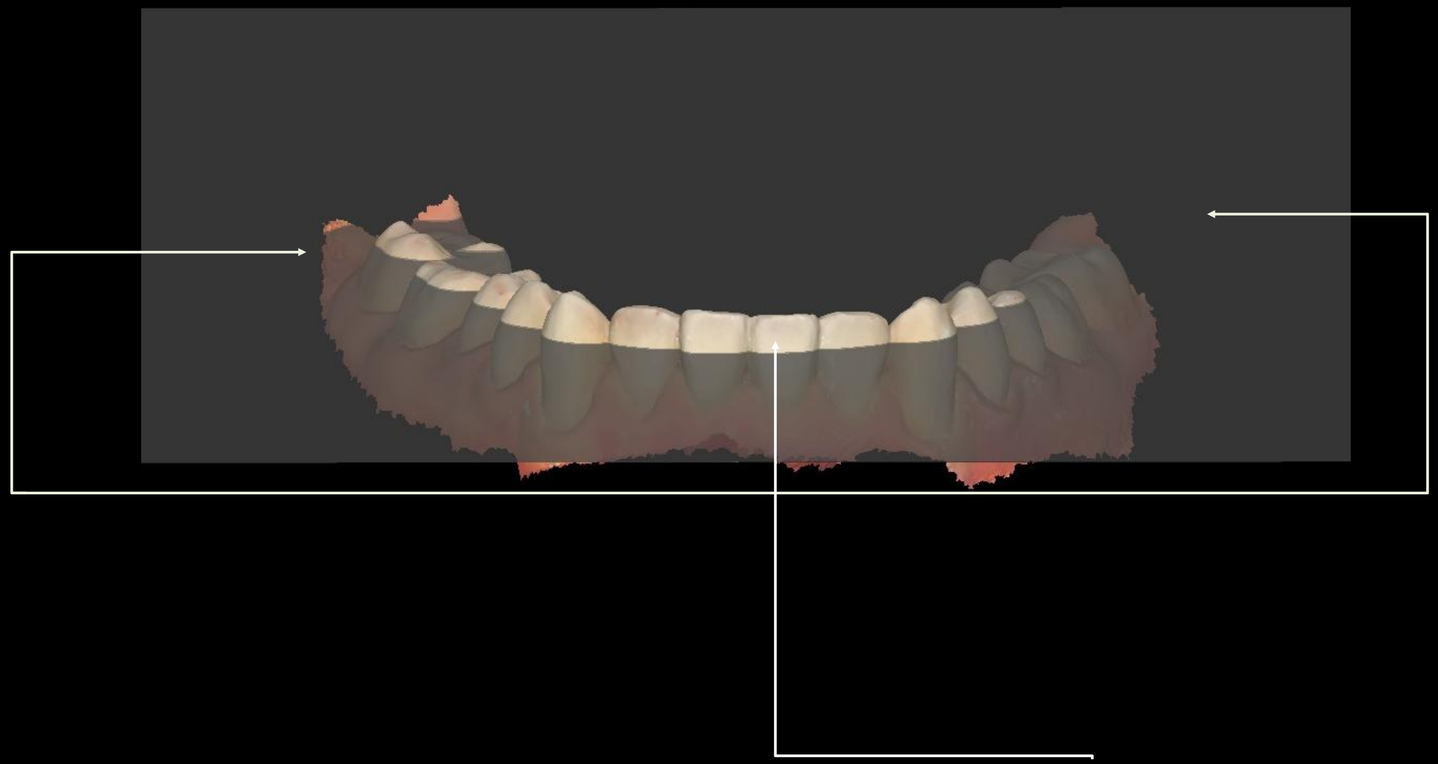
Shining 3d MetiSmile

CT data with Orthodontics diagnose



Check the misaligned tooth axes and midline of the maxillary anterior teeth

CT data with Orthodontics diagnose



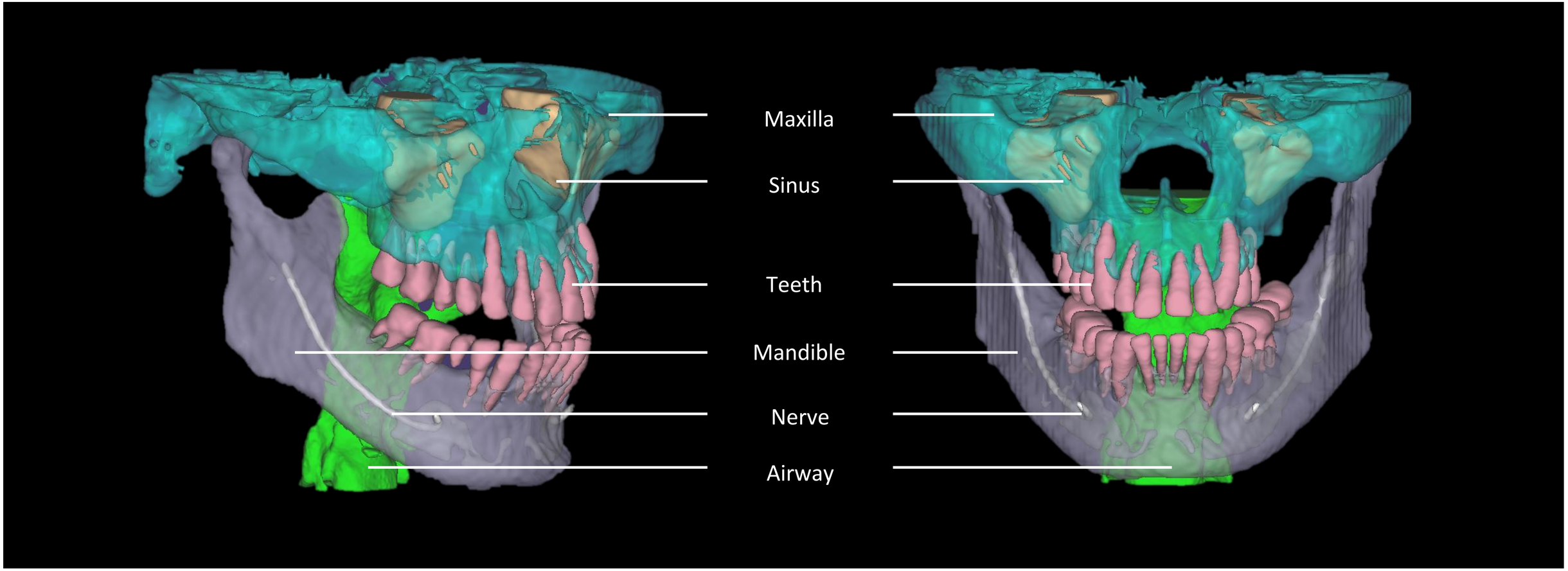
Diagnosis of the occlusal plane in the left and right molars and mandibular anterior teeth

NEW

Clinical Value

AI Segmentation

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

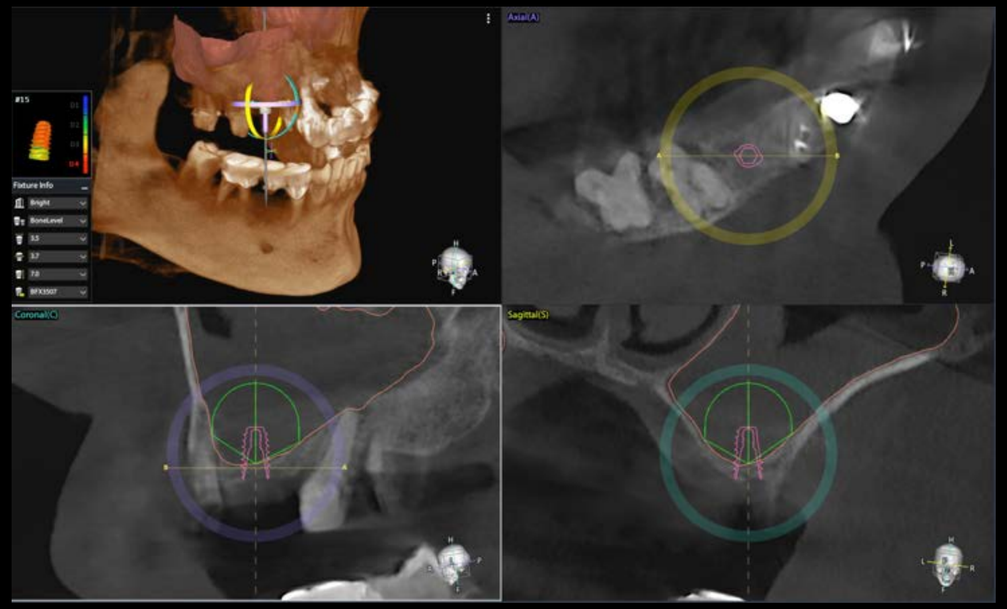


Clinical Value

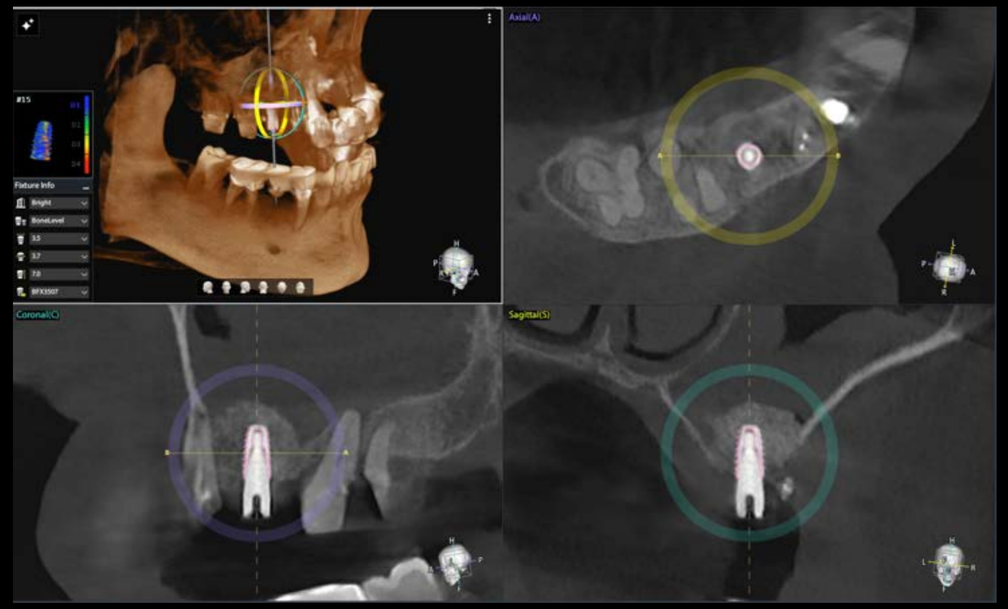
NEW

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



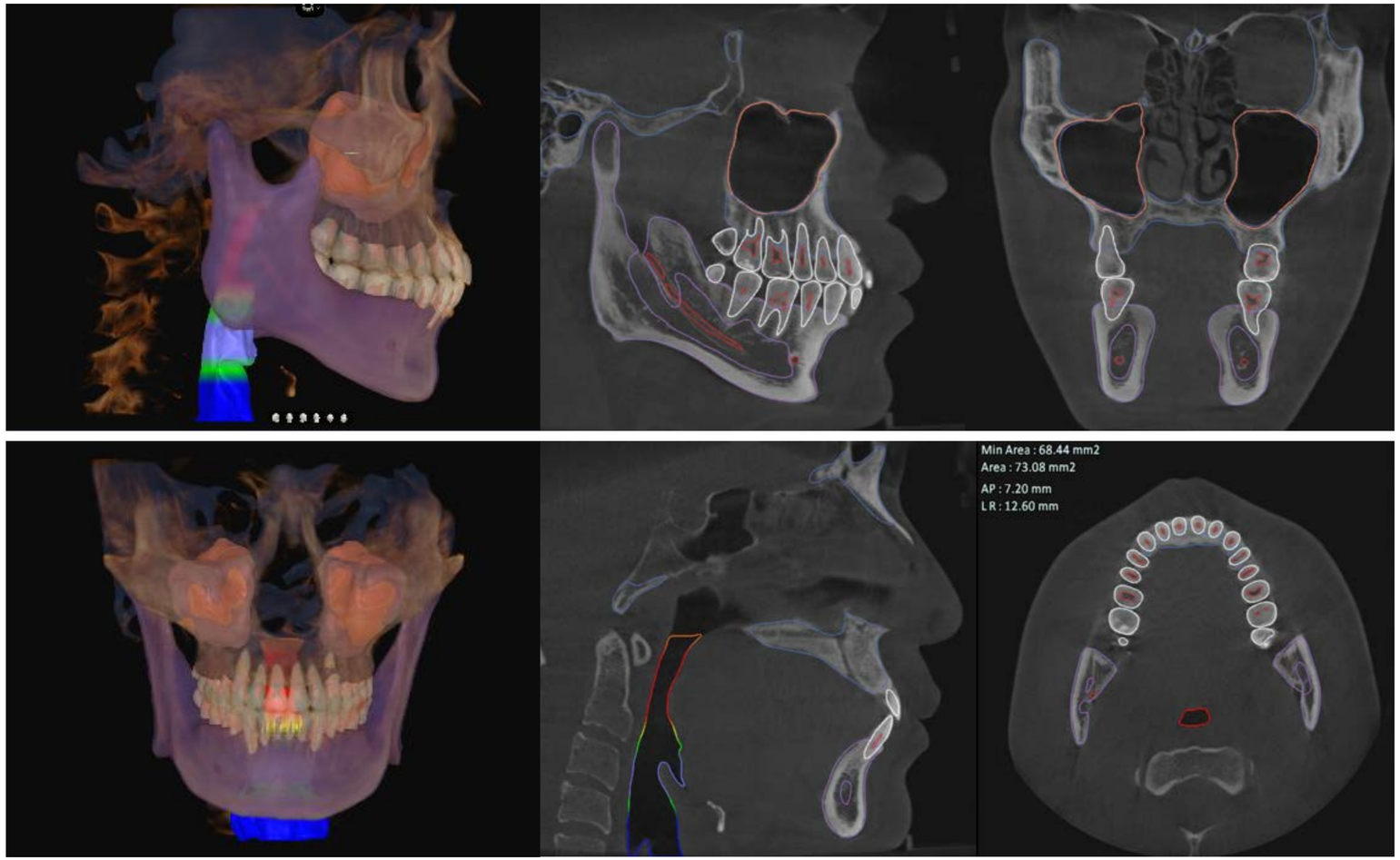
After Sinus Bone Graft

Clinical Value

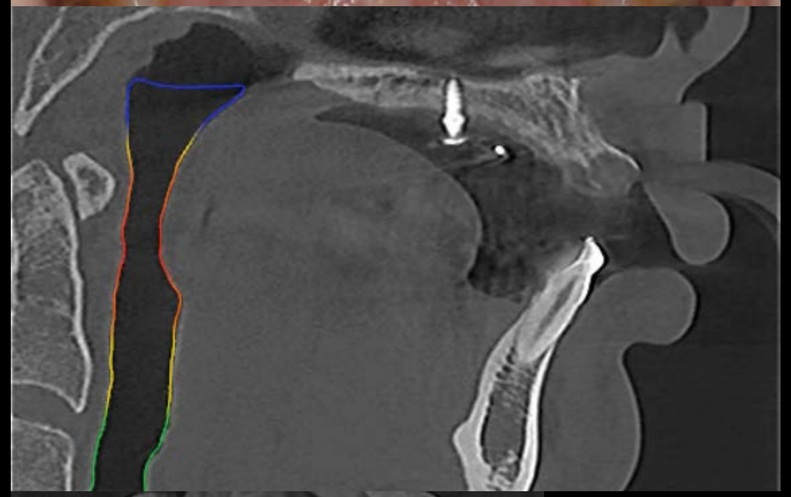
NEW

AI Segmentation

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



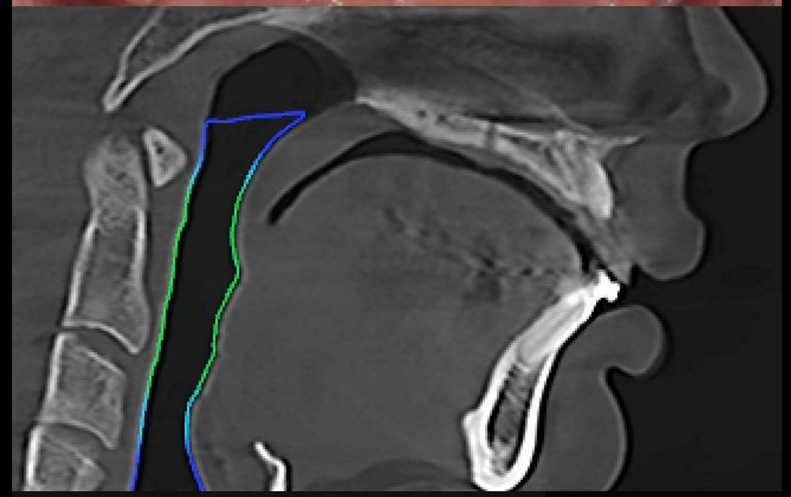
Dentium 3D Viewer
MPR
CROSS
VIRTUAL CEPH
TMU
REPORT
Open
Project
Save
Export
Settings
Patient Information
test
ID 10678
Age 34
Exam date 20250310
View Control
Axis
Color
Color Invers
Measurement
Annotation
Capture Group
Crown Size
Axial(A)
Min Area : 68.44 mm2
Area : 107.48 mm2
AP : 9.00 mm
L R : 14.00 mm
Coronal(C)
Sagittal(S)
** 303p AI segmentation VOD

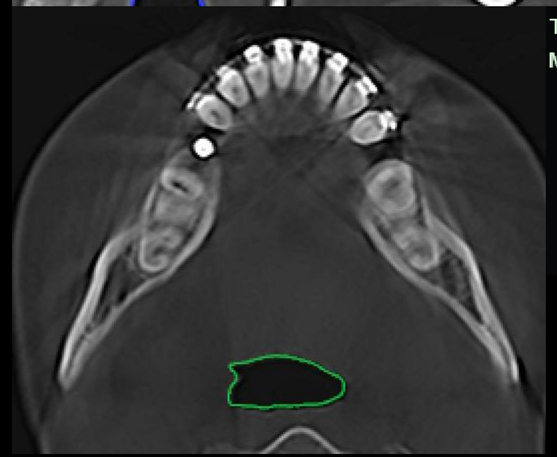


Total Volume : 11.13 cc
Min Area : 0.00 mm2
Area : 96.12 mm2
AP : 6.20 mm
LR : 19.00 mm
100 300

96.12

Before
2023.12





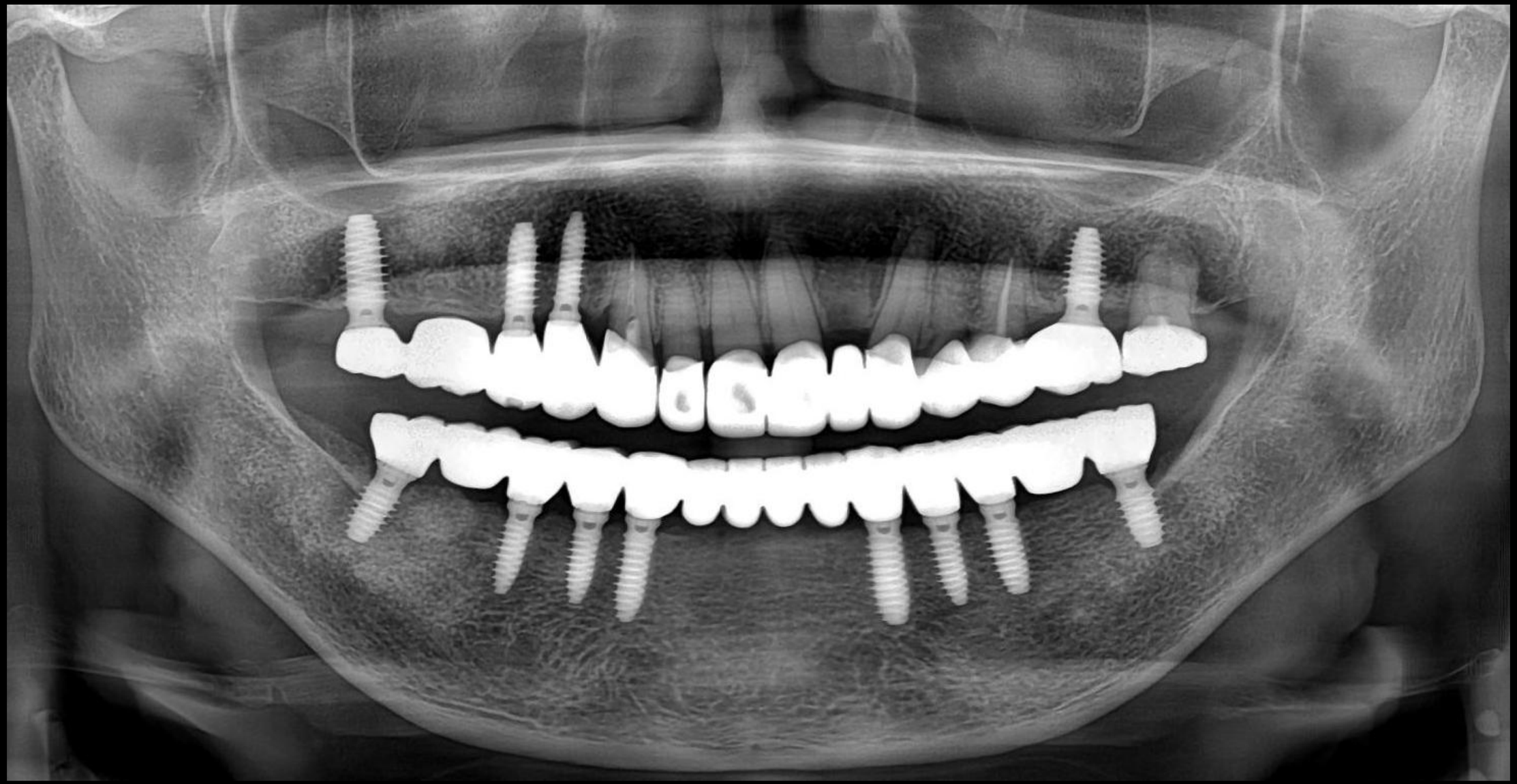
Total Volume : 15.80 cc
Min Area : 196.72 mm2
Area : 221.80 mm2
AP : 10.80 mm
LR : 24.20 mm
100 300

221.80

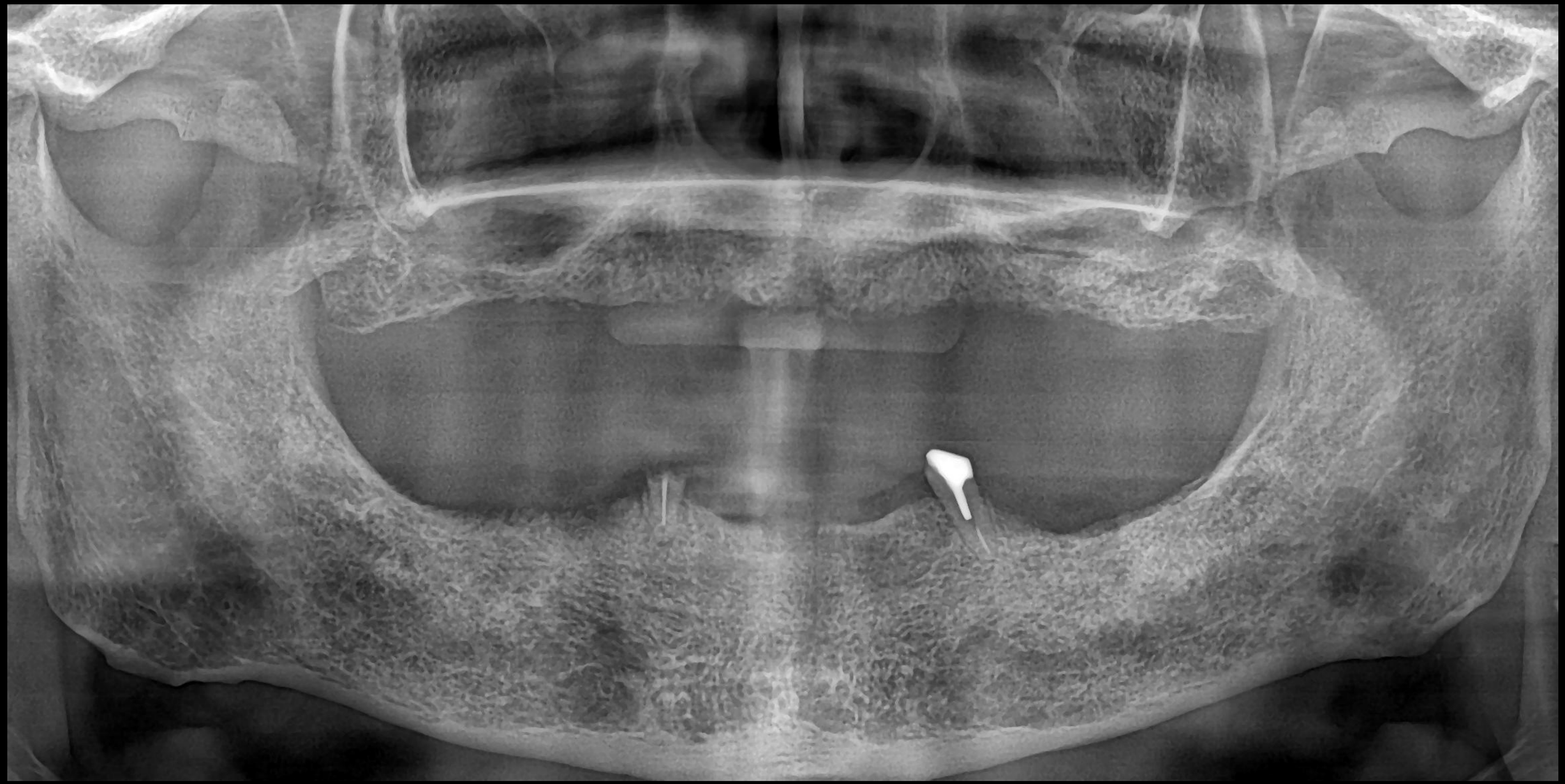
After
2025.08

Mandibular orthodontic treatment in progress
→ Continuous F/U required

bright Implant



Pre-op (2025-07-08)



All on x Denture Stent

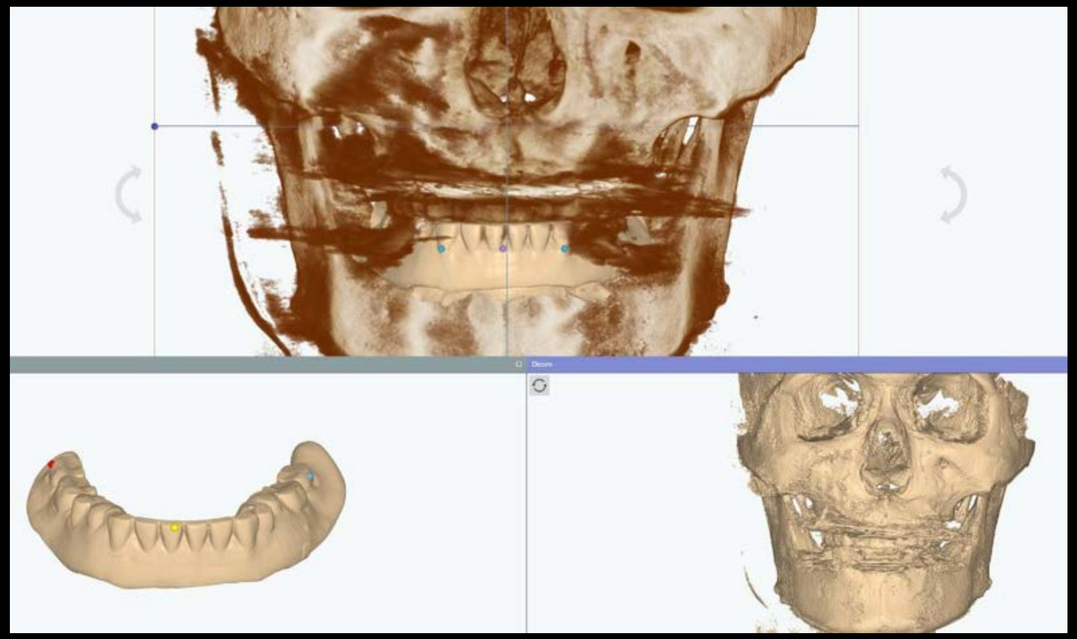
Duplicating an existing denture and using it as a stent

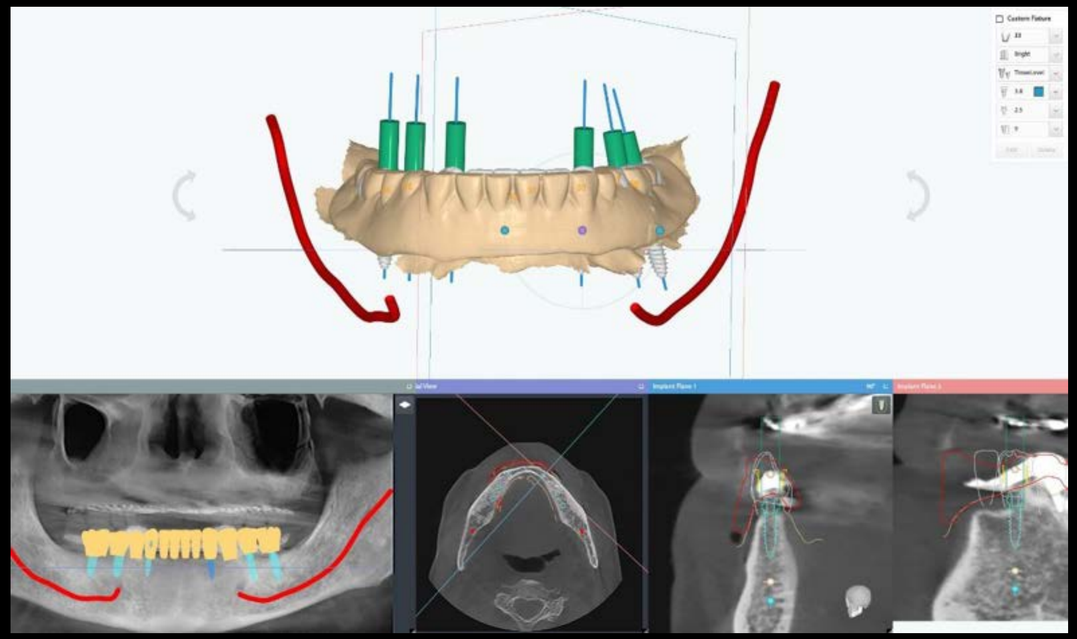
Digital Guide software is used to check bone density at the surgical site and assess non ideal occlusion

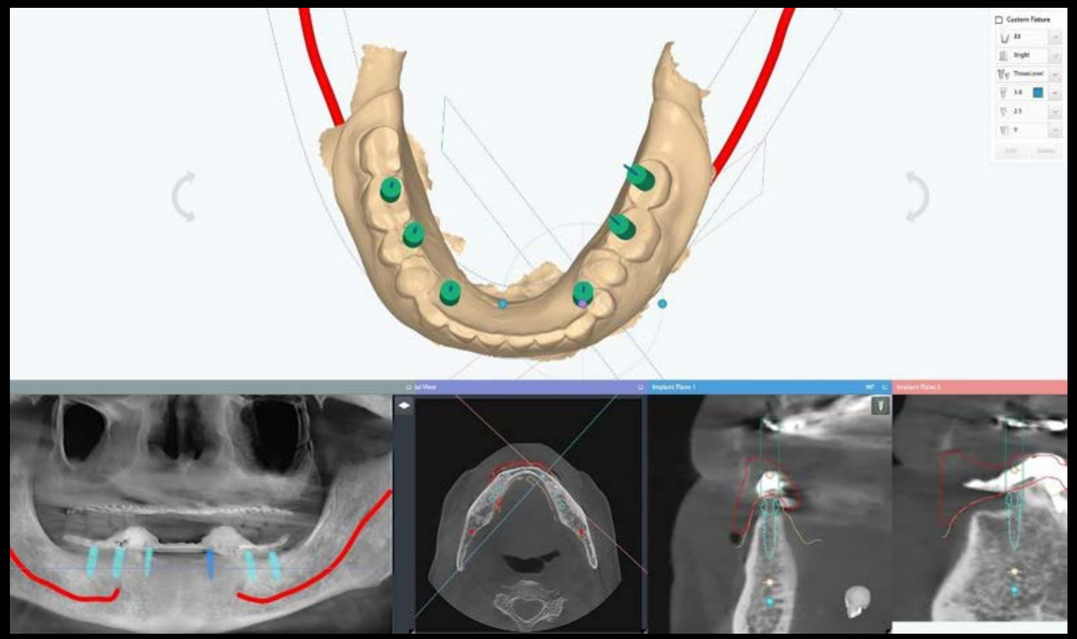
All on x Denture Stent

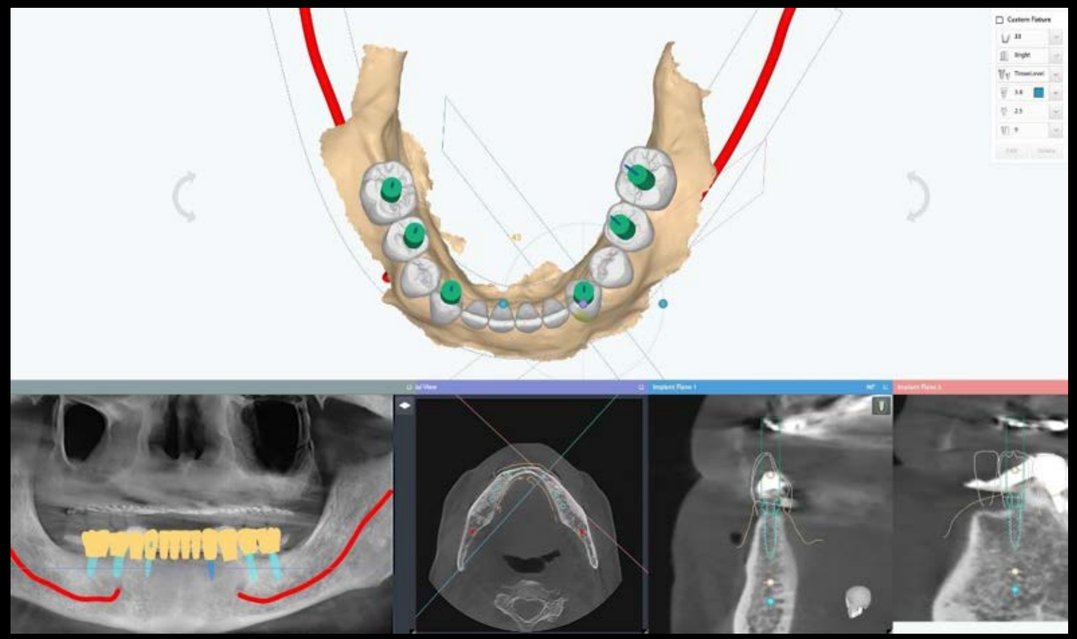
**Set up in an ideal position instead of the existing denture’s occlusion,
then fabricate a Denture stent & Check bite Denture**

All on x Denture Stent

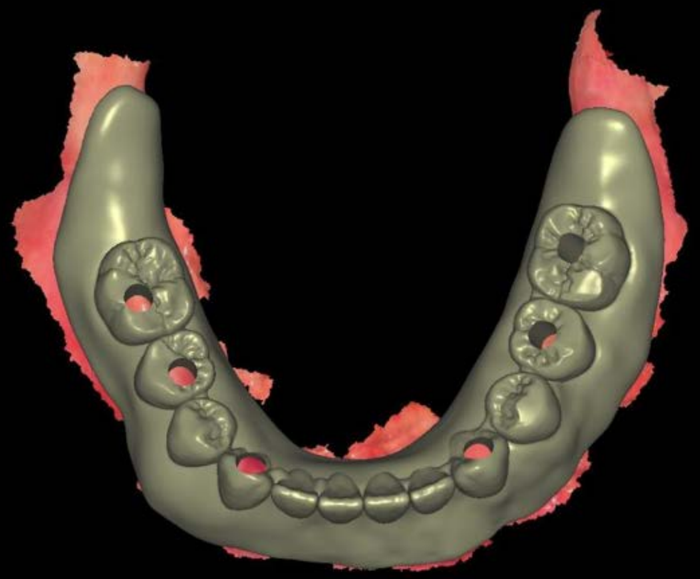


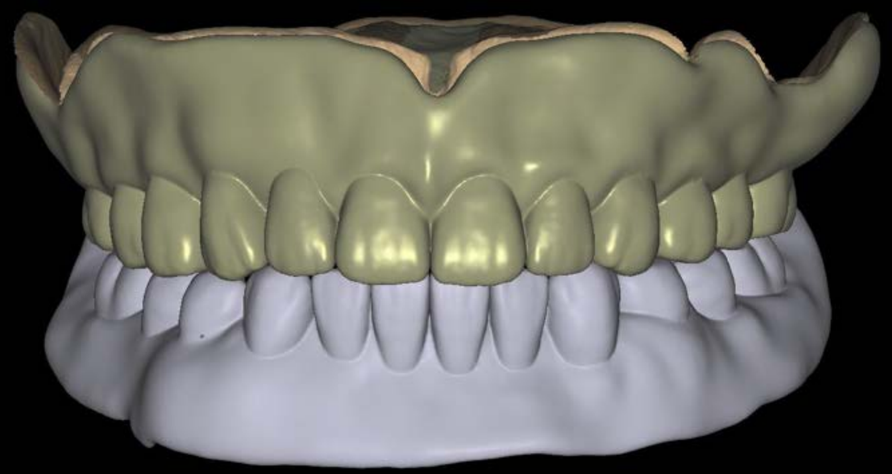






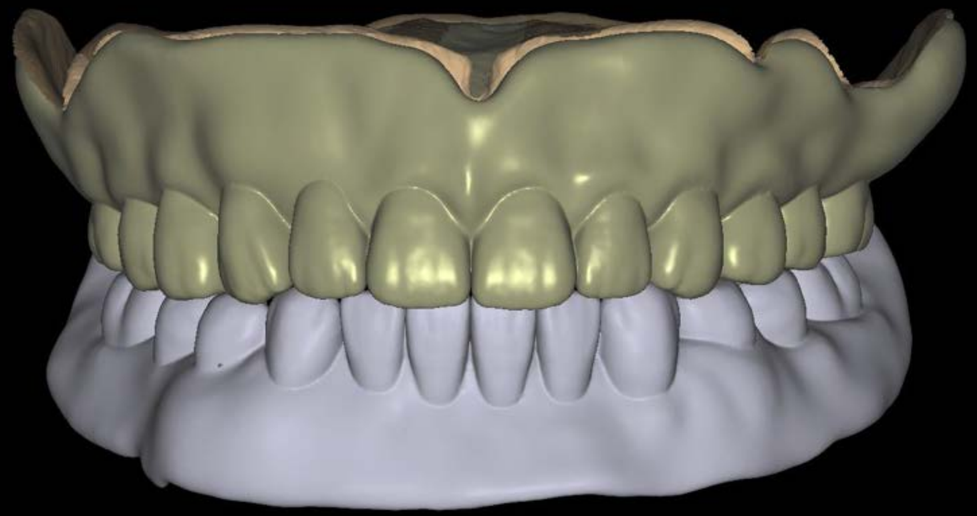
All on x Denture Stent

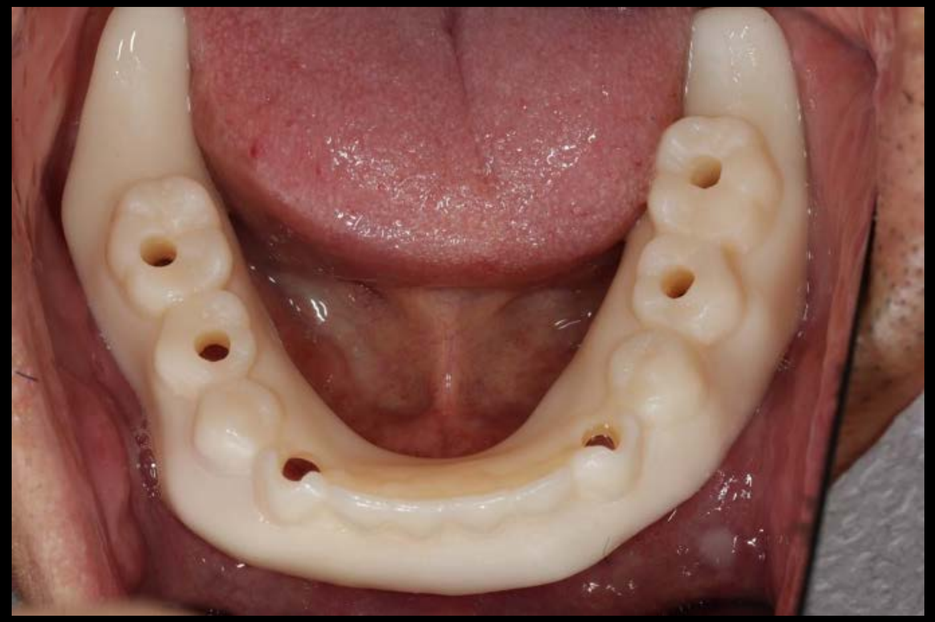




Set up in an ideal position instead of the existing denture's occlusion,
then fabricate a Denture stent & Check bite Denture

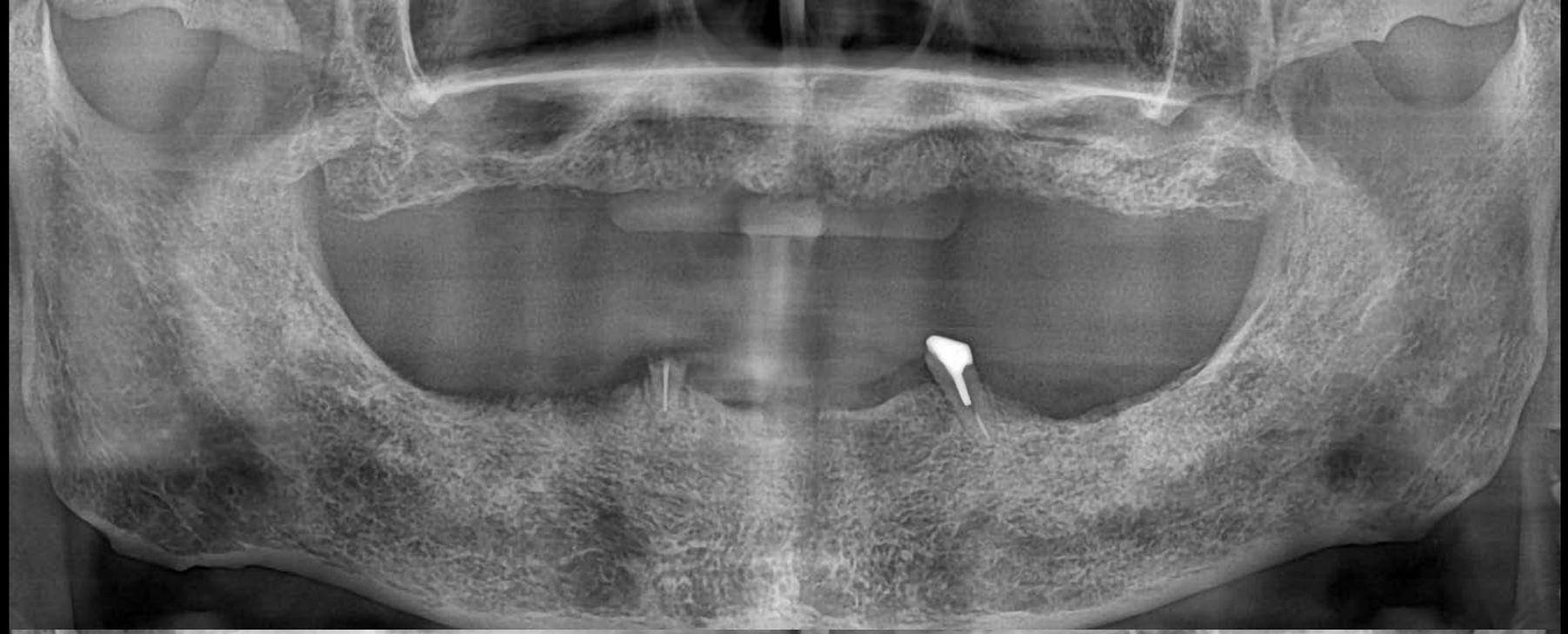
All on x Denture Stent



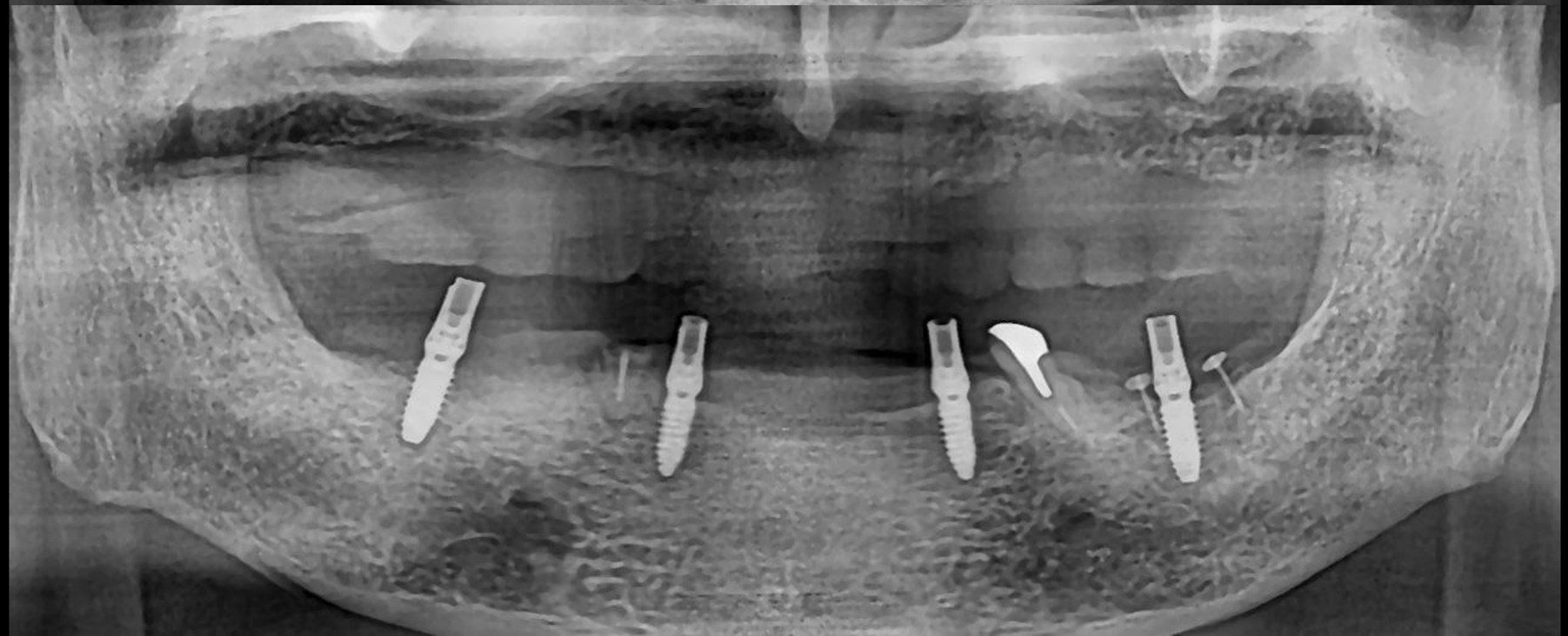


Check bite & Vertical dimension adjustments during the intraoral check bite

Pre-op (2025-07-08)



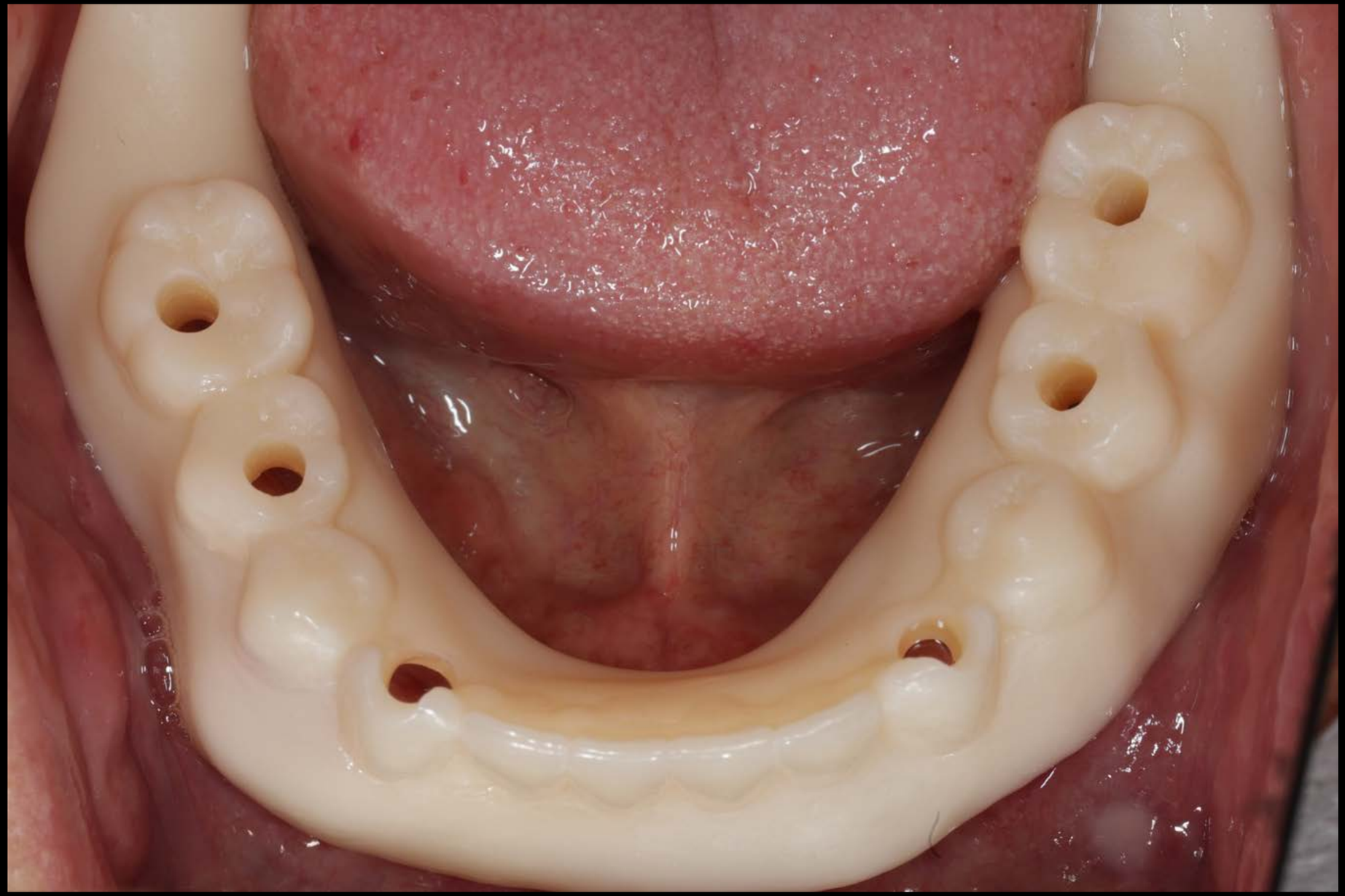
Post-op (2025-07-22)



Duplicated and 3D-printed Denture for use as a surgical guide

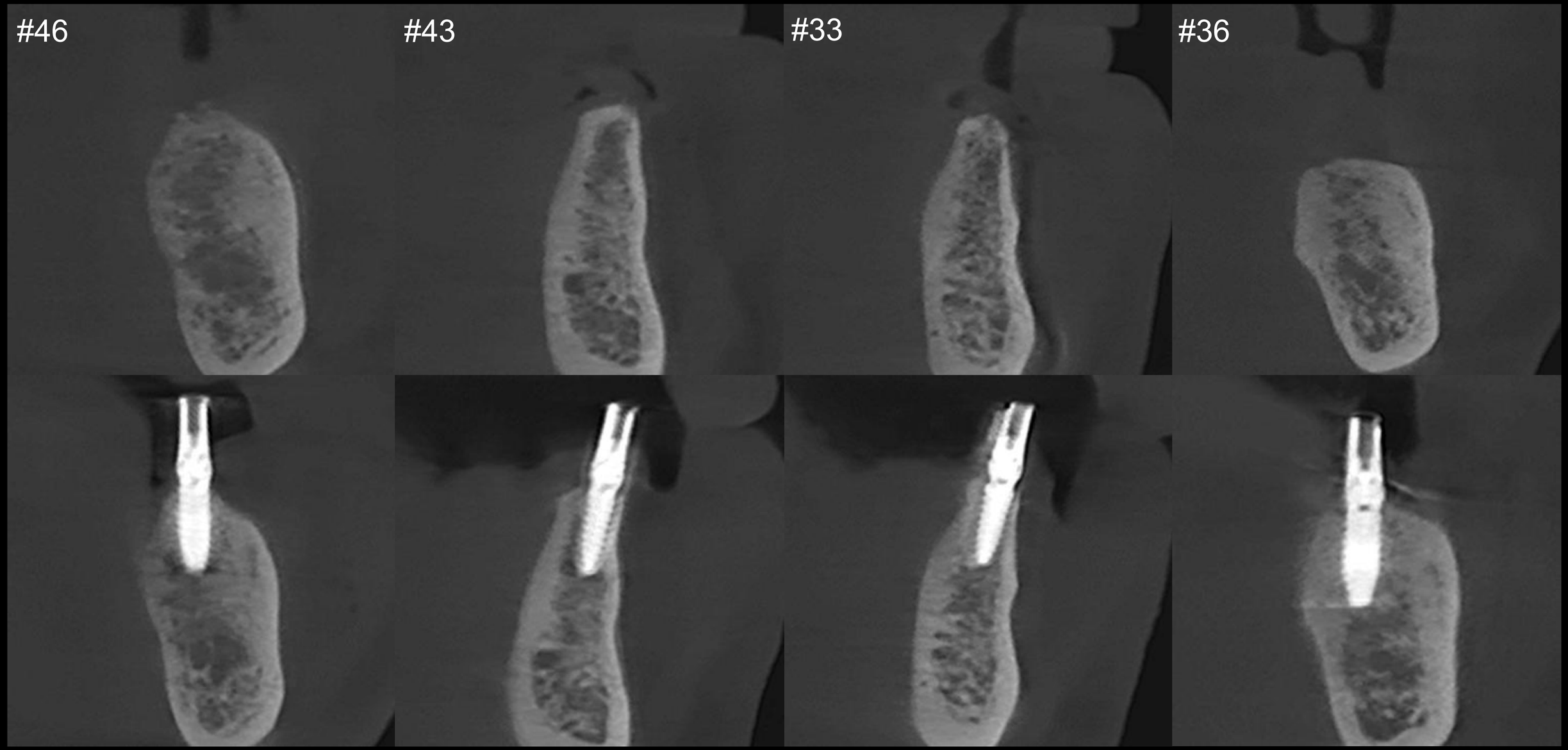
Duplicated and 3D-printed Denture for use as a surgical guide

Duplicated and 3D-printed Denture for use as a surgical guide



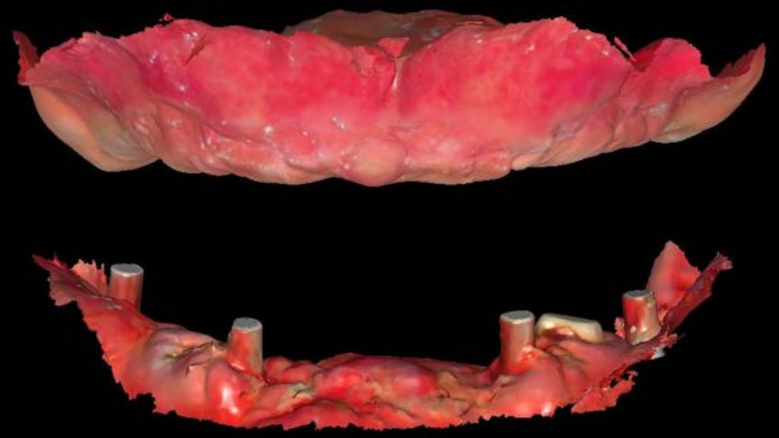
Pre-op (2025-07-22)

Pre-op CT (2025-07-22)



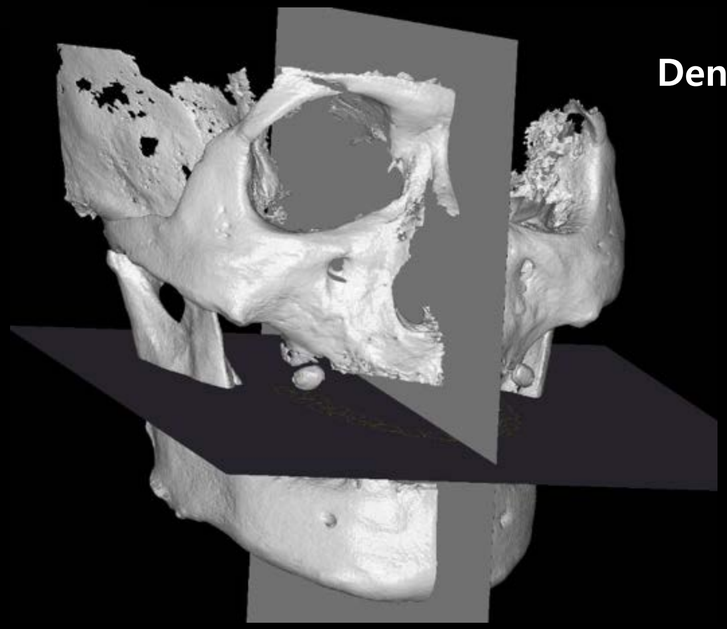
Healing : 2 weeks (2025-08-06)

Provisional restoration



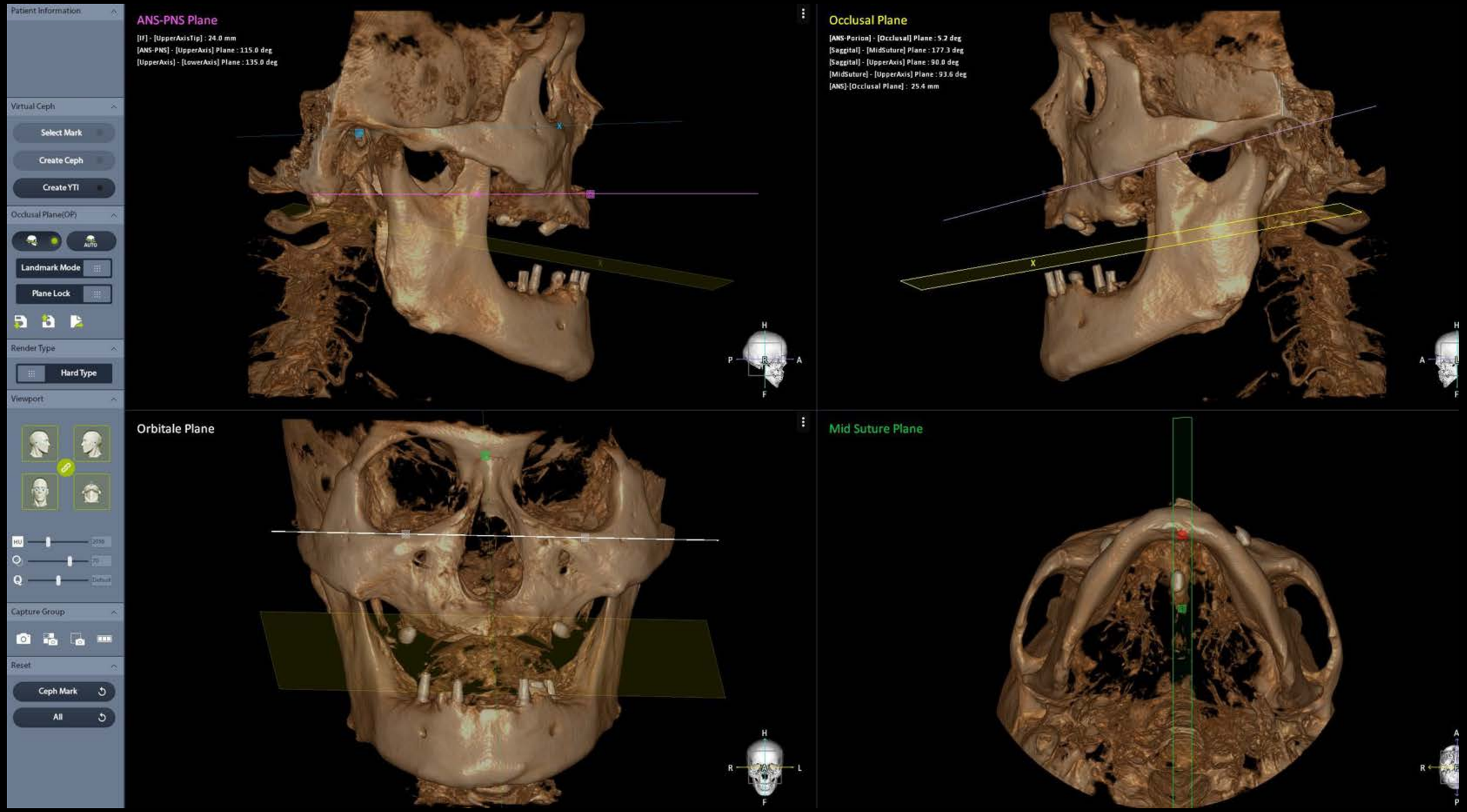
Intro Oral Scan

Denture Impression & Zirconia marker

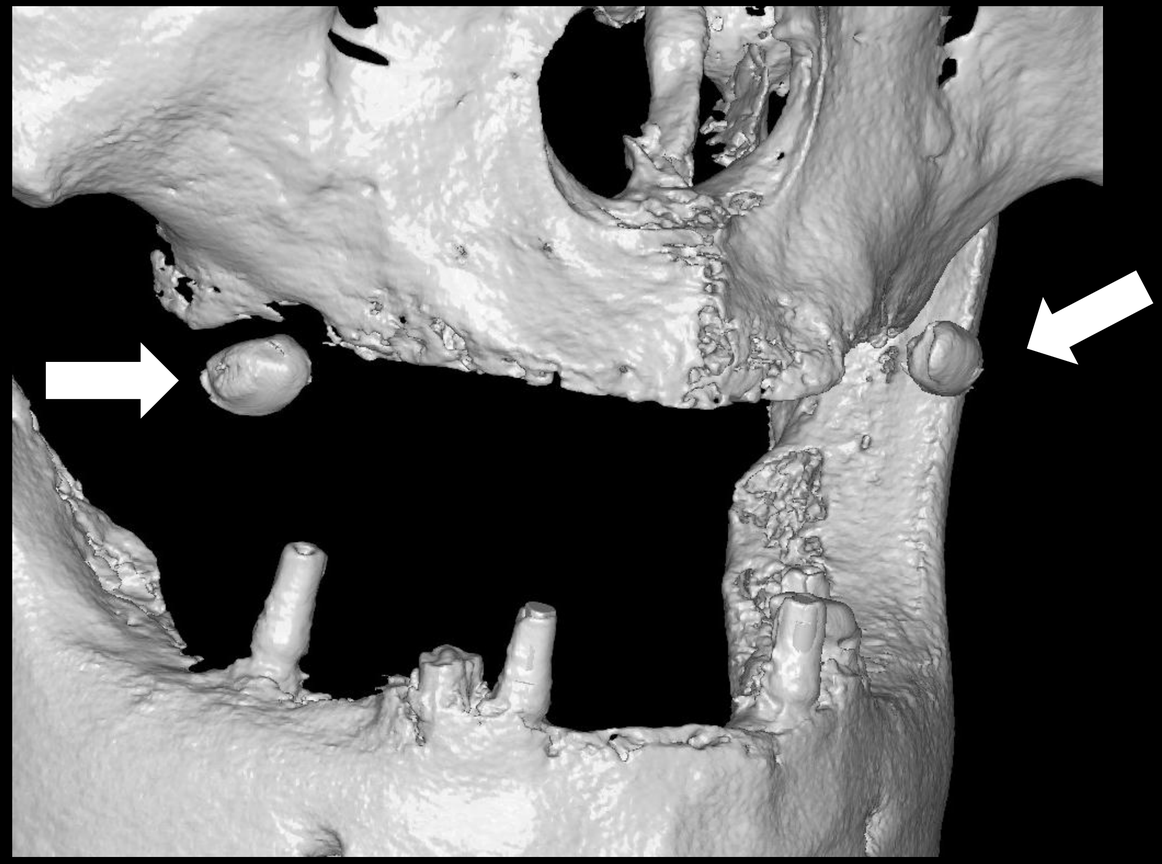


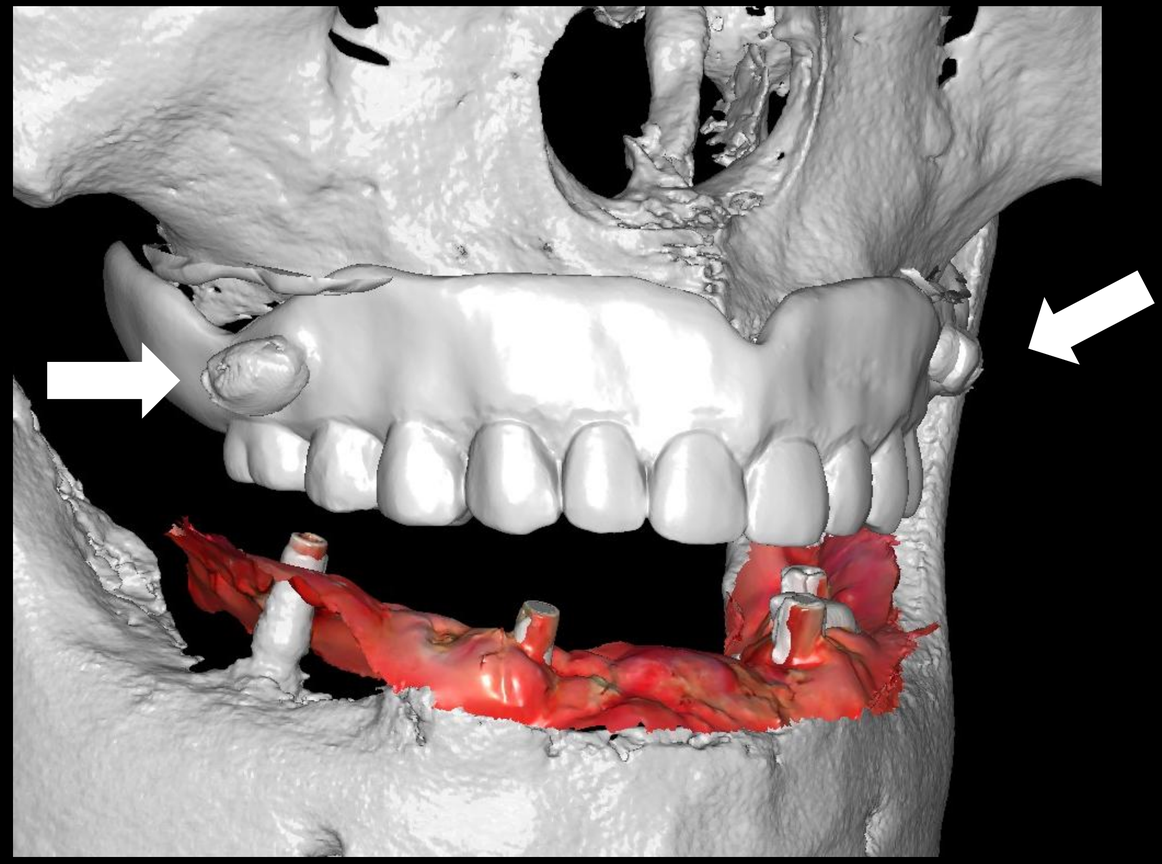
CT data
(AI Occlusal Plane)

CT data (AI Occlusal Plane)



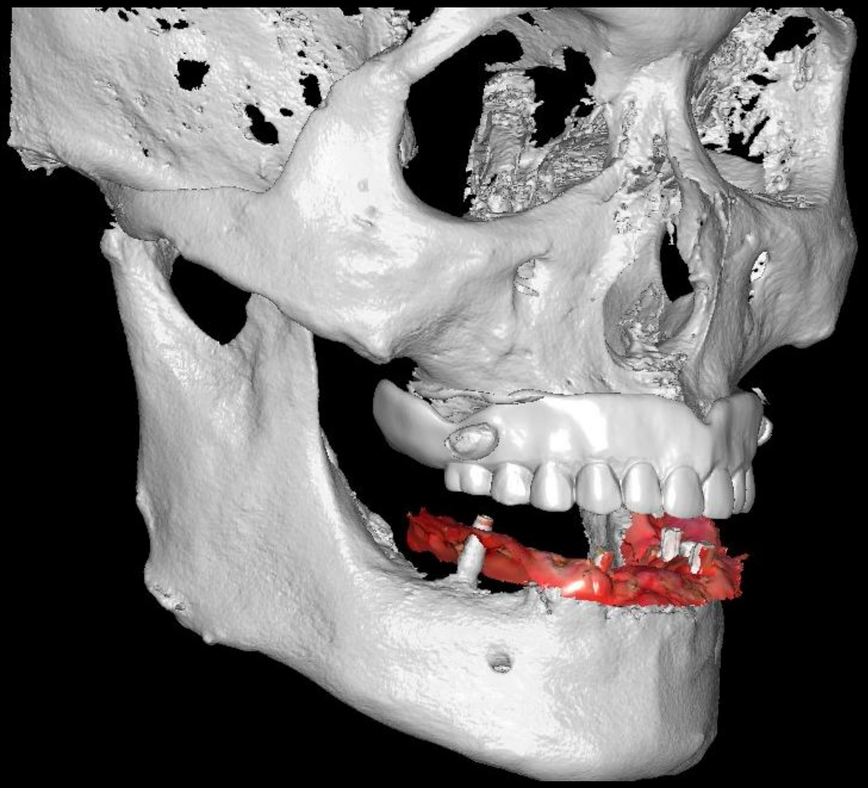
CT data Stitching

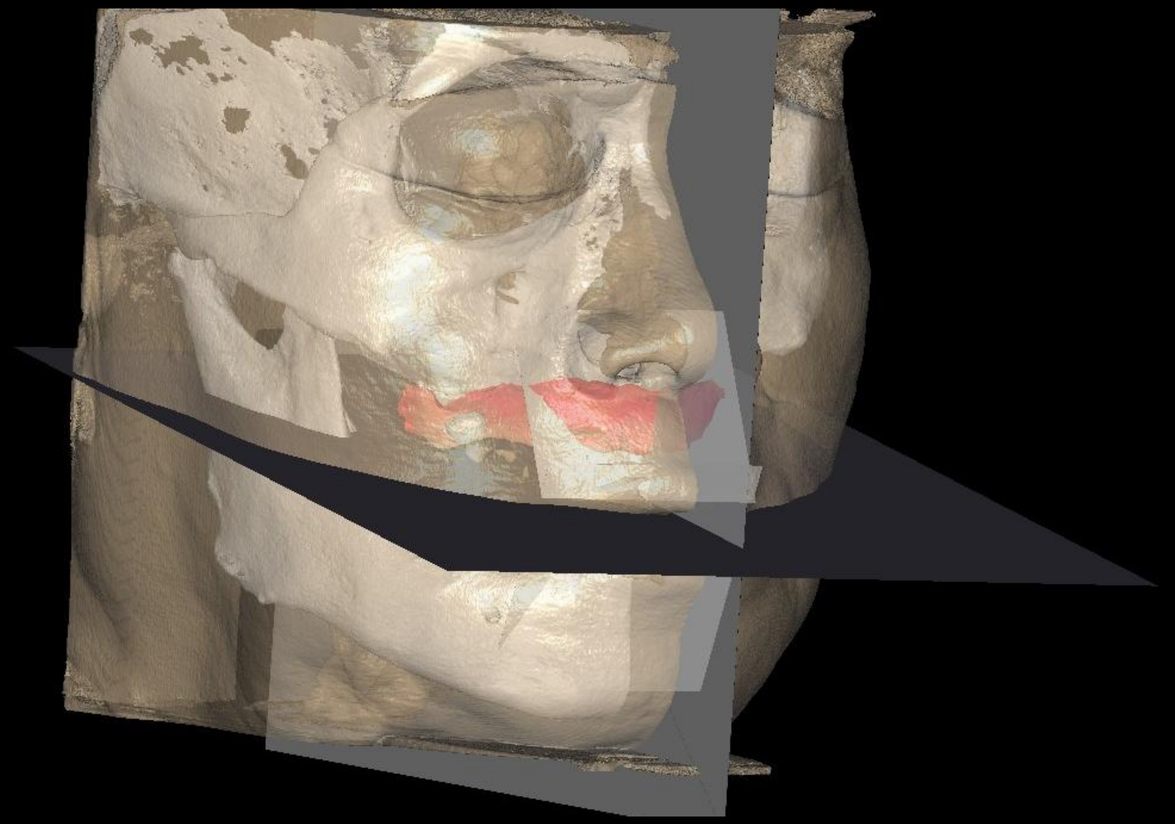




CT Check Bite with Zirconia Marker

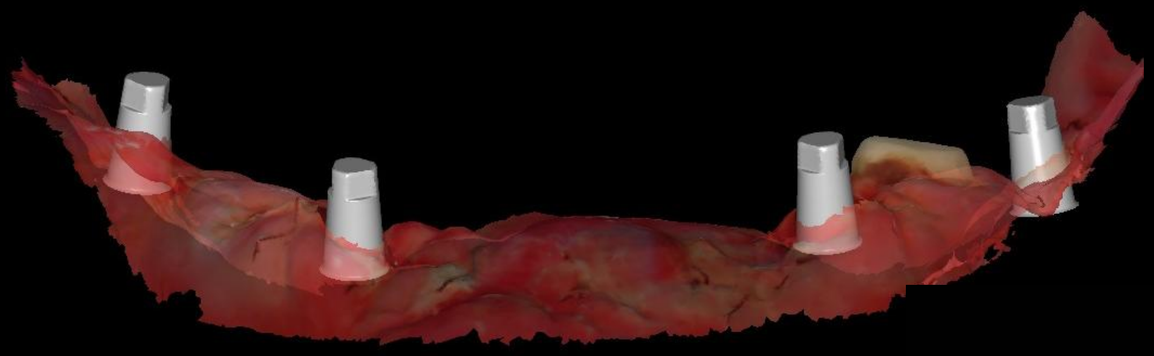
CAD Design



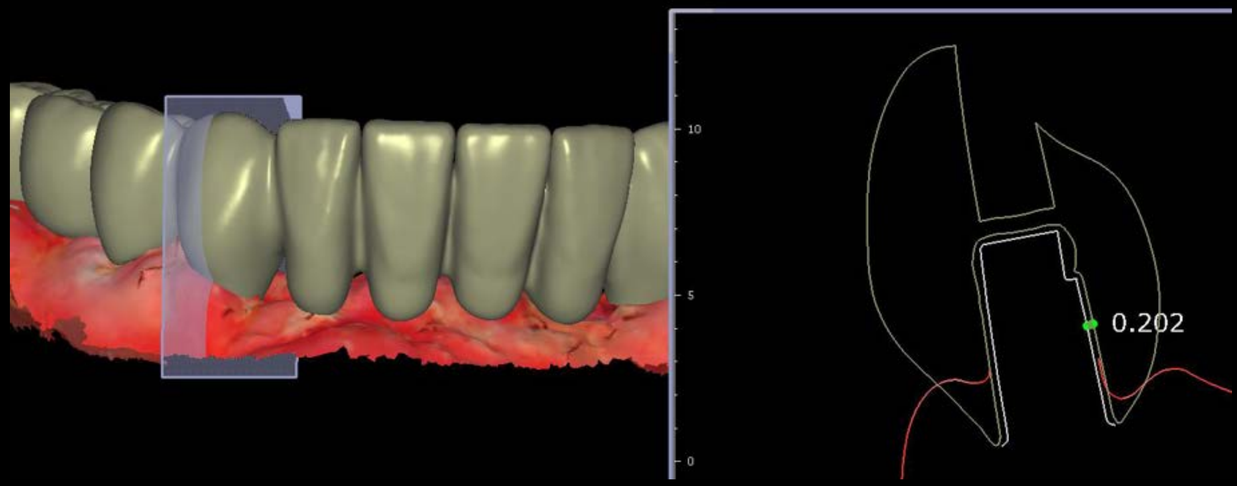


CT Check Bite with Zirconia Marker

CAD Design

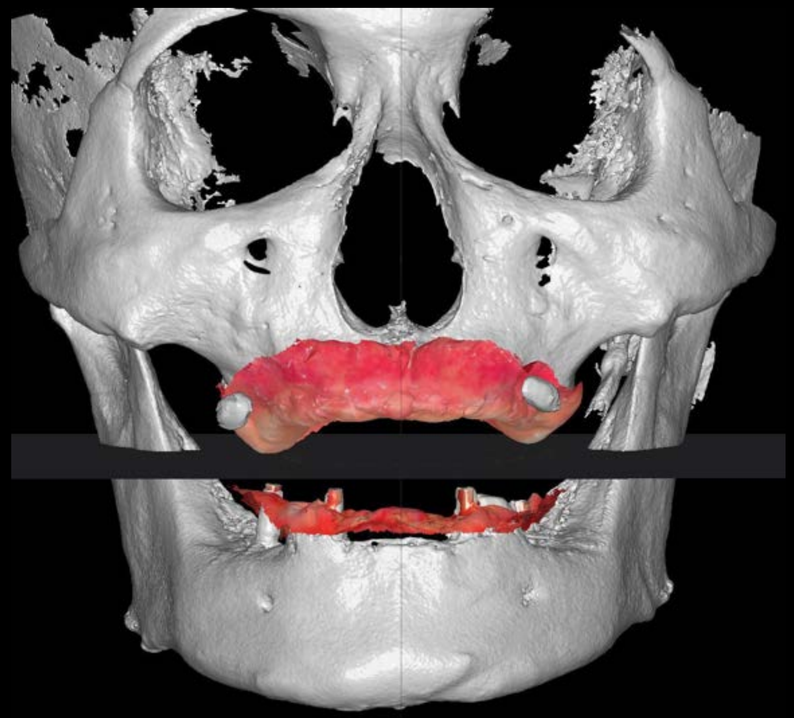


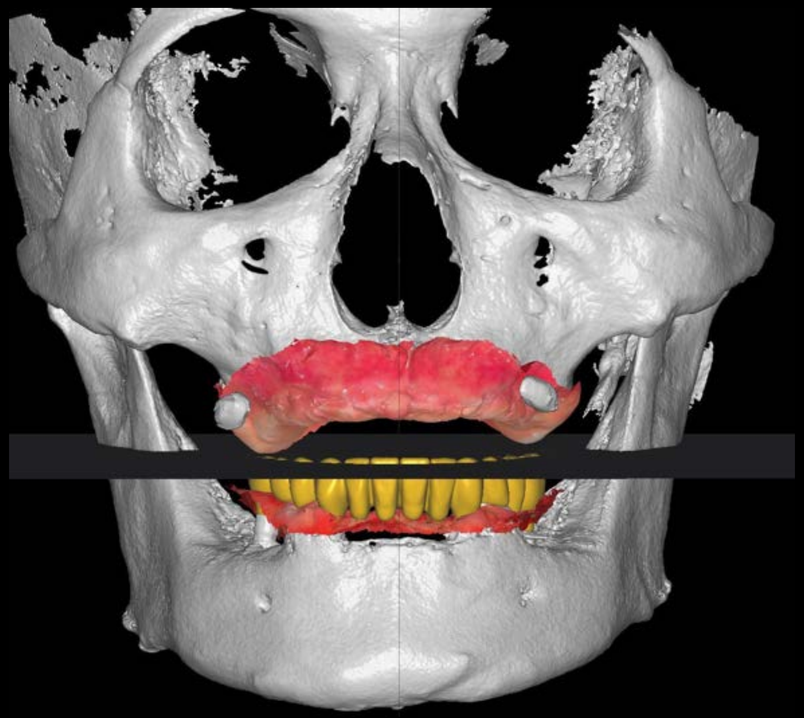
Ti base Ø3.8 Gh2.0



Multiple long case Cement gap

CAD Design





CT Check Bite with Zirconia Marker

Virtual Articulator

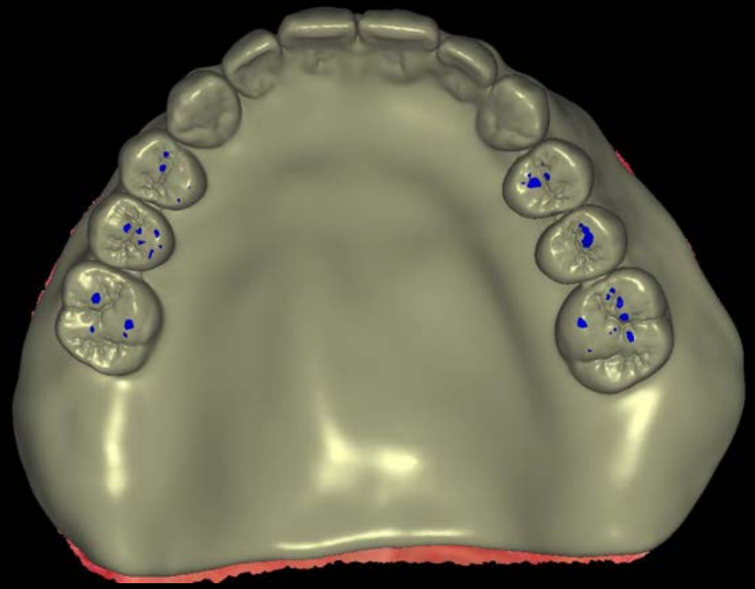
Printing & Milling

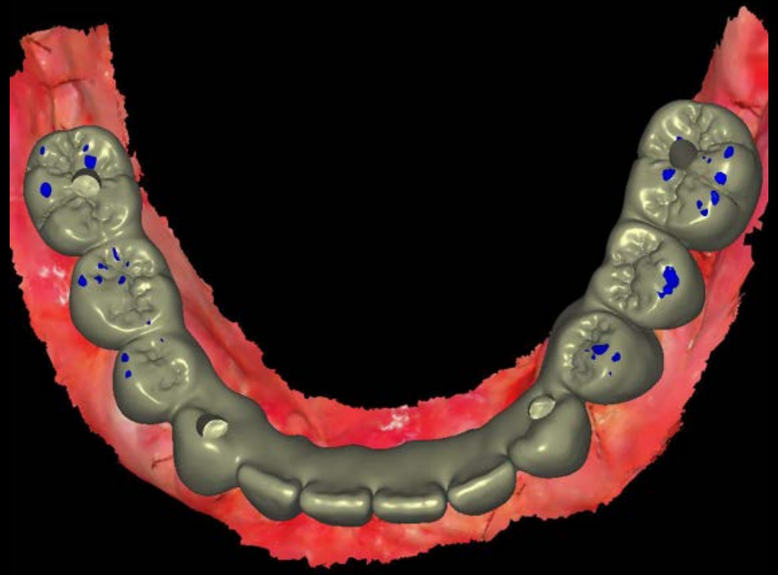
PMMA Block

3D Printing Resin

Provisional Restoration

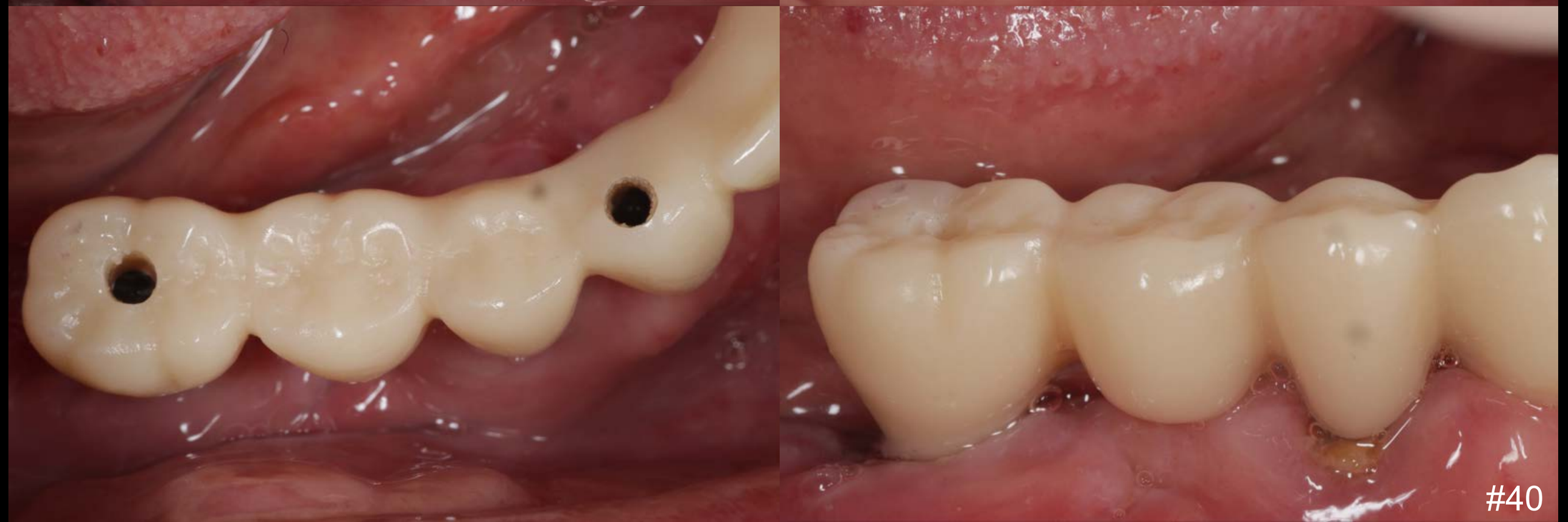
Provisional Restoration



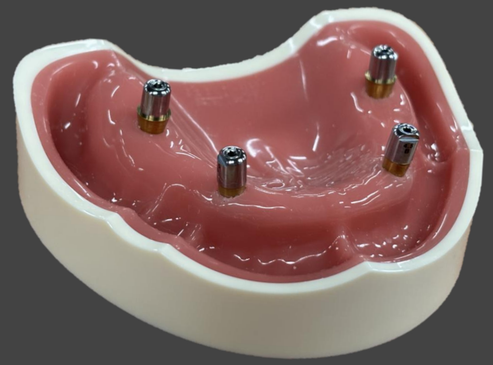


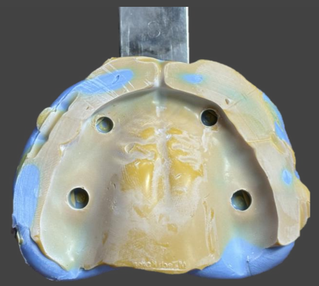
Model-Less

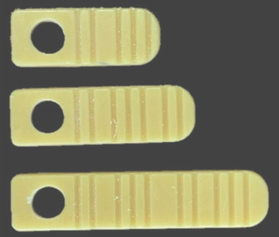
Provisional restoration (2025-08-06)

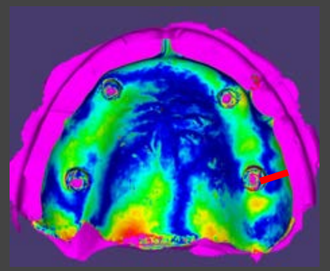


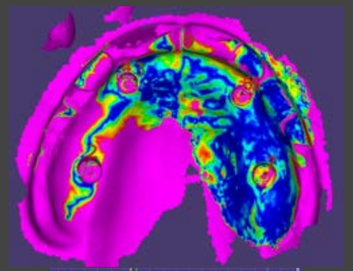
Provisional restoration (2025-08-06)

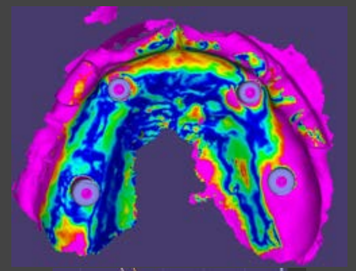


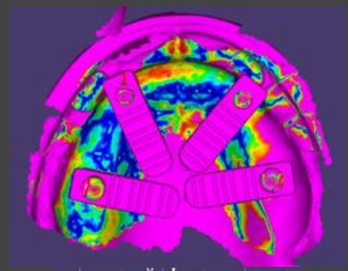


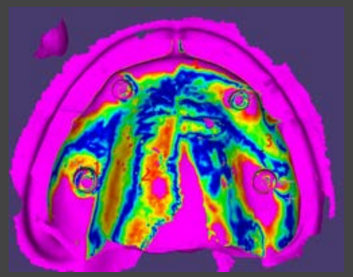


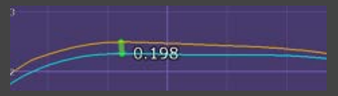


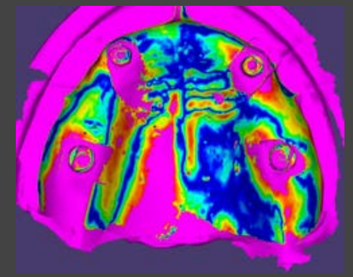


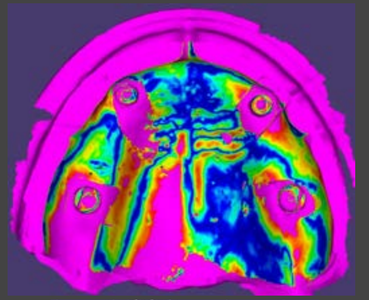












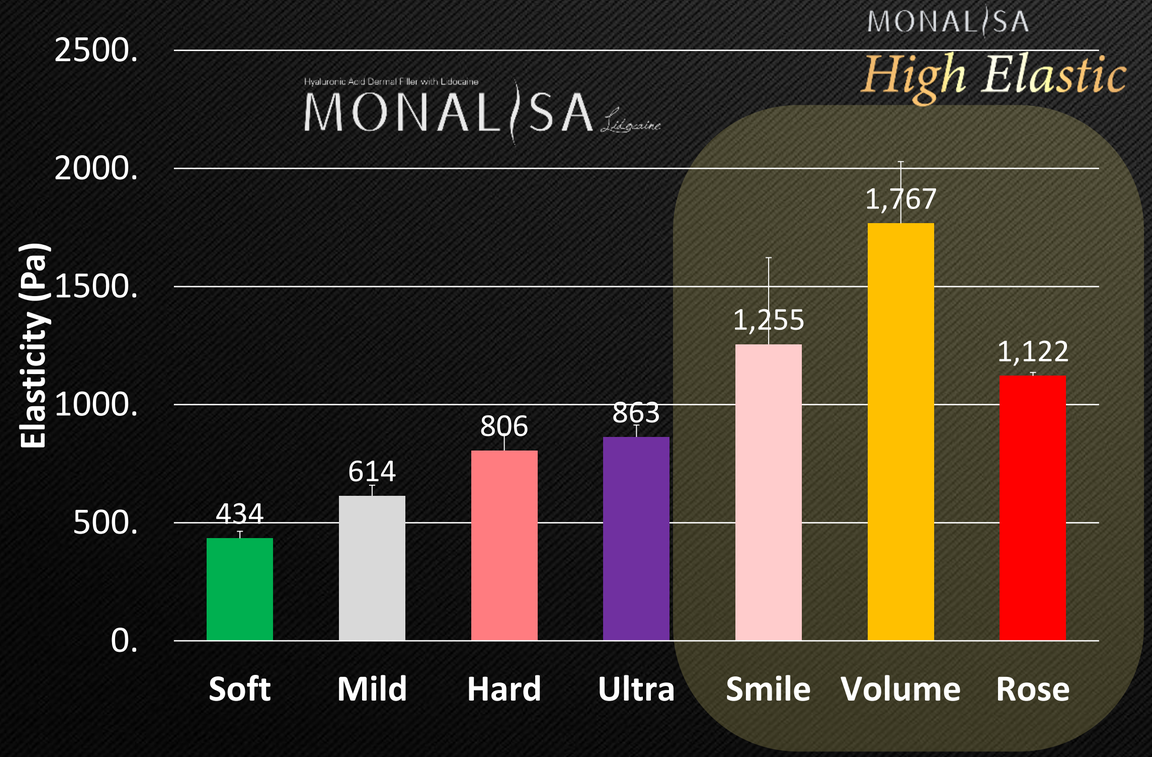
BTS = BOS

Photogrammatory jig and simple jig are similar and fit well

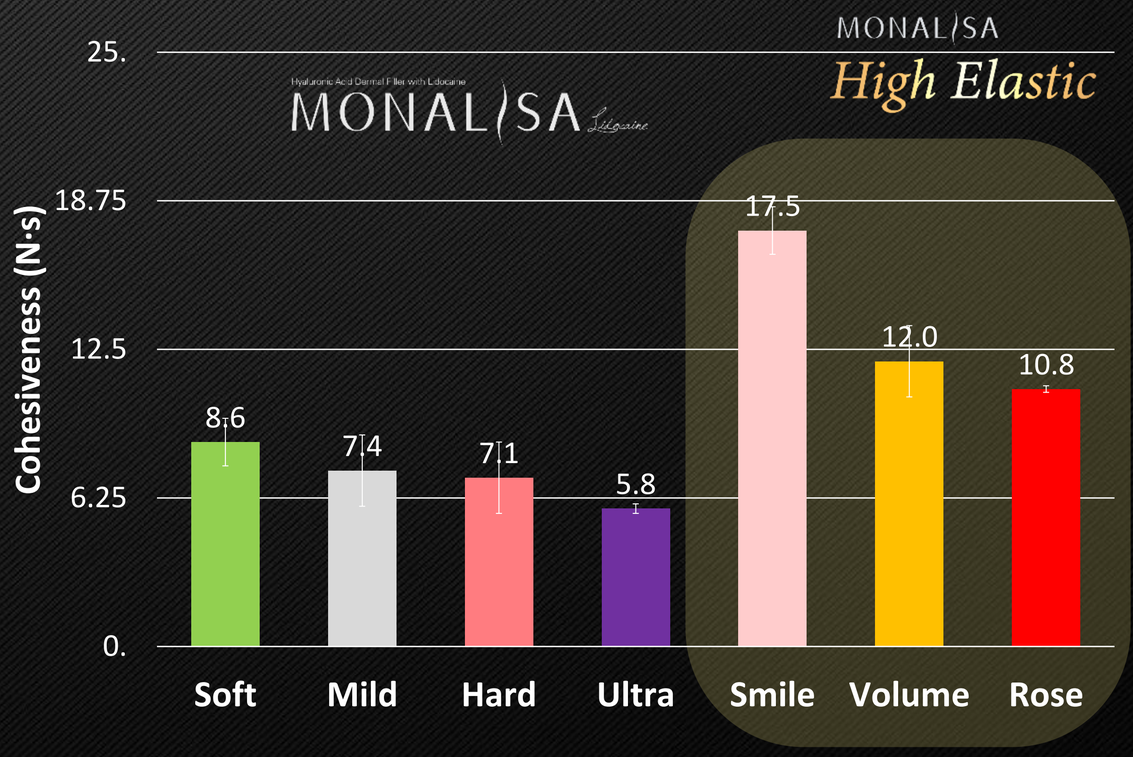
Without Jig is less hittable

MONALISA High Elastic

Elasticity

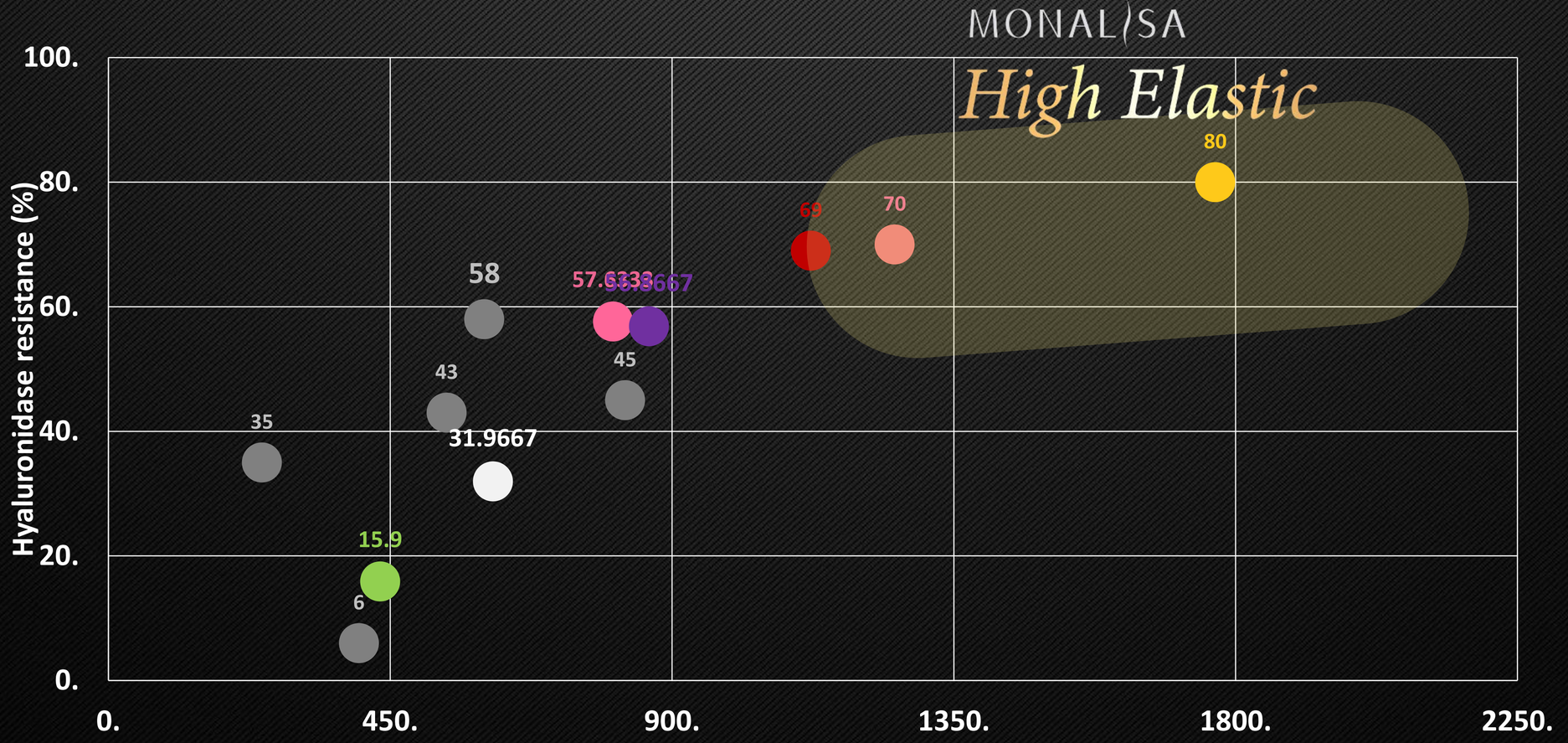


Cohesion



Comparison of physical properties with 5 third-party products

High elasticity and durability compared to other companies



* Competitor A, B, C: Bi-phasic
* Competitor D, E: Mono-phasic

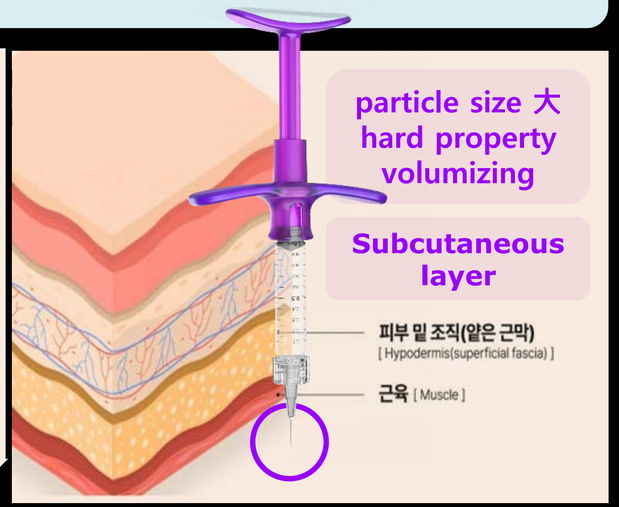
How to “Filler & Toxin”? _ Treatment techniques

Dentium

Monalisa High Elastic Volume

Bone-contact technique

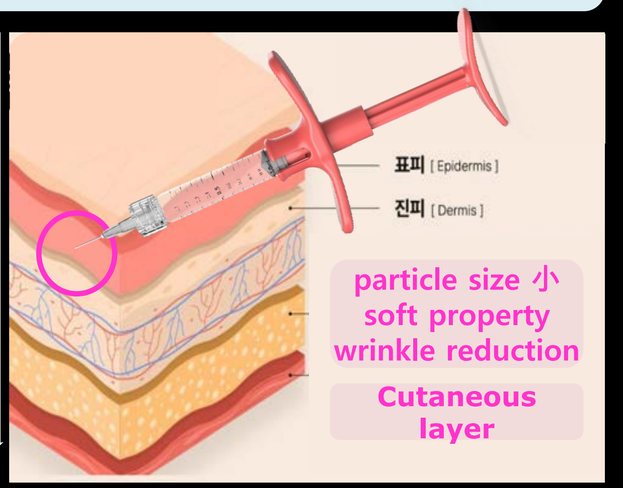
- Avoid anatomical hazards
- Minimize connective tissue damage
- Natural appearance
- Long-term stable



Monalisa High Elastic Rose

Needle-up technique

- Intradermal angle (10~15°)
- On superficial layer
- Maintain smooth appearance
- Less invasiveness



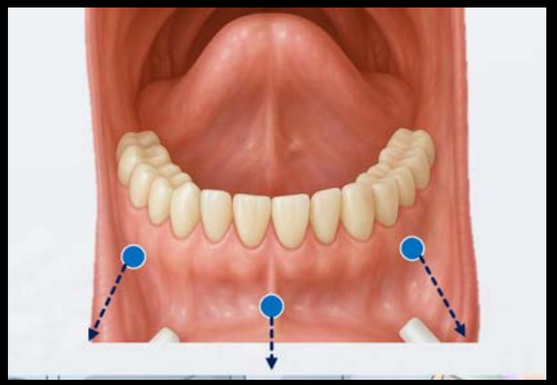
Mental crease

Dentium

Application sites

Smile / Rose

- **Mental crease**



Chin & Jaw contour

Dentium

Bone contact technique

- With jawline reconstruction for balanced profile
- Superficial injection, ~ 2 cc total
- Linear threading along contour

Nasal contour

Dentium

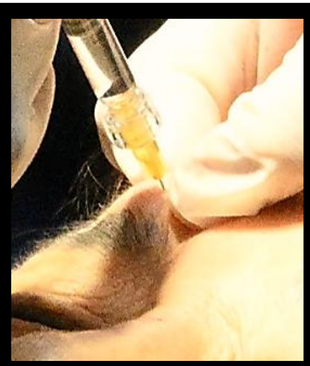
Dorsum: bone contact on nasal bone, linear threading

Tip: intraoral or perioral approach, small bolus injection

Caution: avoid vascular compromise (dorsal nasal artery)

Injection point & recommended dose _ HA Filler

Dentium

Tx Plan	Intraoral	Perioral					
✓ Volume shrinkage ✓ Gingival recession ✓ Marionette wrinkle ✓ Facial contour							
Injection point	**Nasolabial folds & Marionette lines**	**Nasolabial folds & Marionette lines**	**Nose dorsum**	**Nose tip**	**Forehead & Frown line**	**Lip contour**	**Chin contour**
Specific remarks	✓ Bone contact on buccal apex ✓ Canine fossa pressure	✓ Superficial injection ✓ 3~5mm upwards from nasolabial folds ✓ 0.5-1cc	✓ Bone contact on nasal bone	✓ Both intraoral and perioral approach are achievable	✓ Bone contact on frontal sinus ✓ On depressed volume	✓ Subdermal injection	✓ With jawline reconstruction ✓ Superficial injection ✓ 2cc
Recommended product	MONALISA High Elastic Volume	MONALISA High Elastic Volume	MONALISA High Elastic Volume	MONALISA High Elastic Volume	MONALISA High Elastic Rose	MONALISA High Elastic Rose	MONALISA High Elastic Volume

Injection point & recommended dose _ Toxin

Dentium

Tx Plan	Intraoral	Perioral					
✓ VD reconstruction (4~5mm) ✓ TMD ✓ Bruxism ✓ Habitual clenching ✓ CR adaptation after orthodontic treatment ✓ Wrinkles and folds							
Injection point	**Lateral pterygoid**	**Masseter**	**SCM (sternocleidomastoid)**	**Temporalis**	**Depressor anguli oris**	**Mentalis**	**Procerus**
Specific remarks	✓ Palpation on bucco-apex area of 3rd molar ✓ Induce the patient to clench	✓ Male : 40 unit ✓ Female : 20 unit ✓ Palpation & inducing the patient to clench	✓ 10 unit ✓ On superior aspect of SCM	✓ 5 unit ✓ Palpation & inducing the patient to clench	✓ Prior to HA filler injection	✓ 2–5 units per side (total 4–10 units)	✓ 4–8 units at frown-line

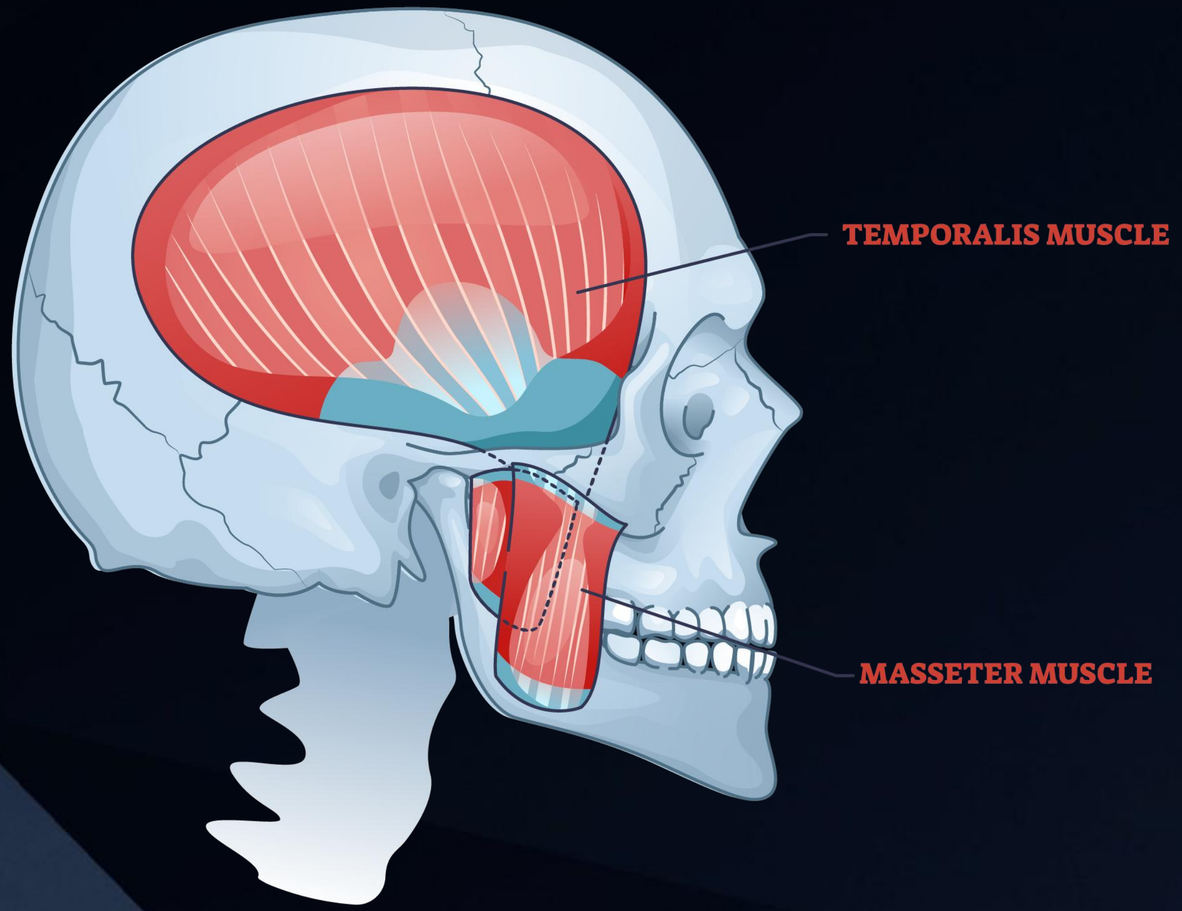
PDRN injection into TMJ

TMJ problem patients - sound, displacement, dislocation and resorption

Clinically not yet proven but effective due to strong anti-inflammatory and regenerative effects

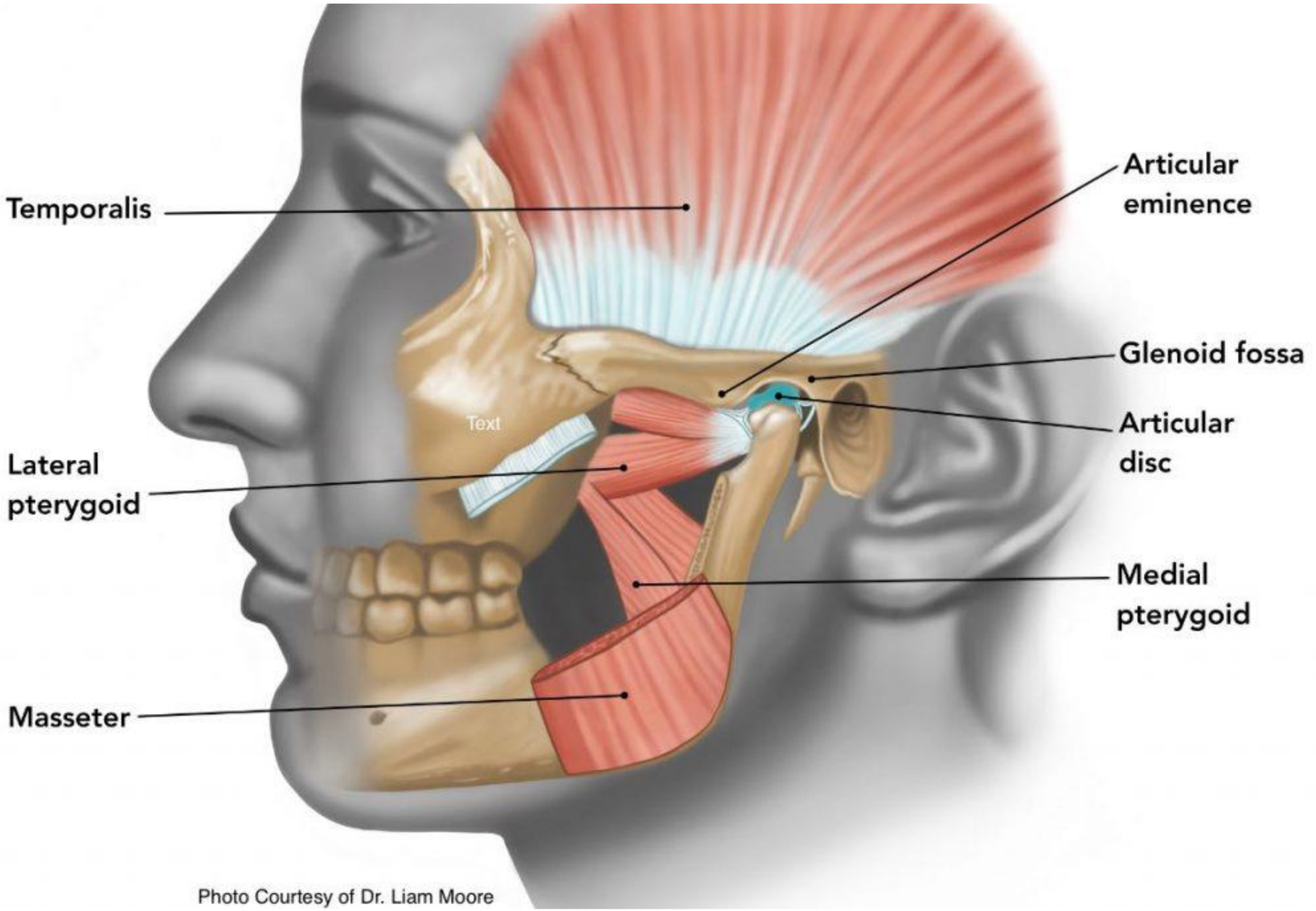
Why Botox?

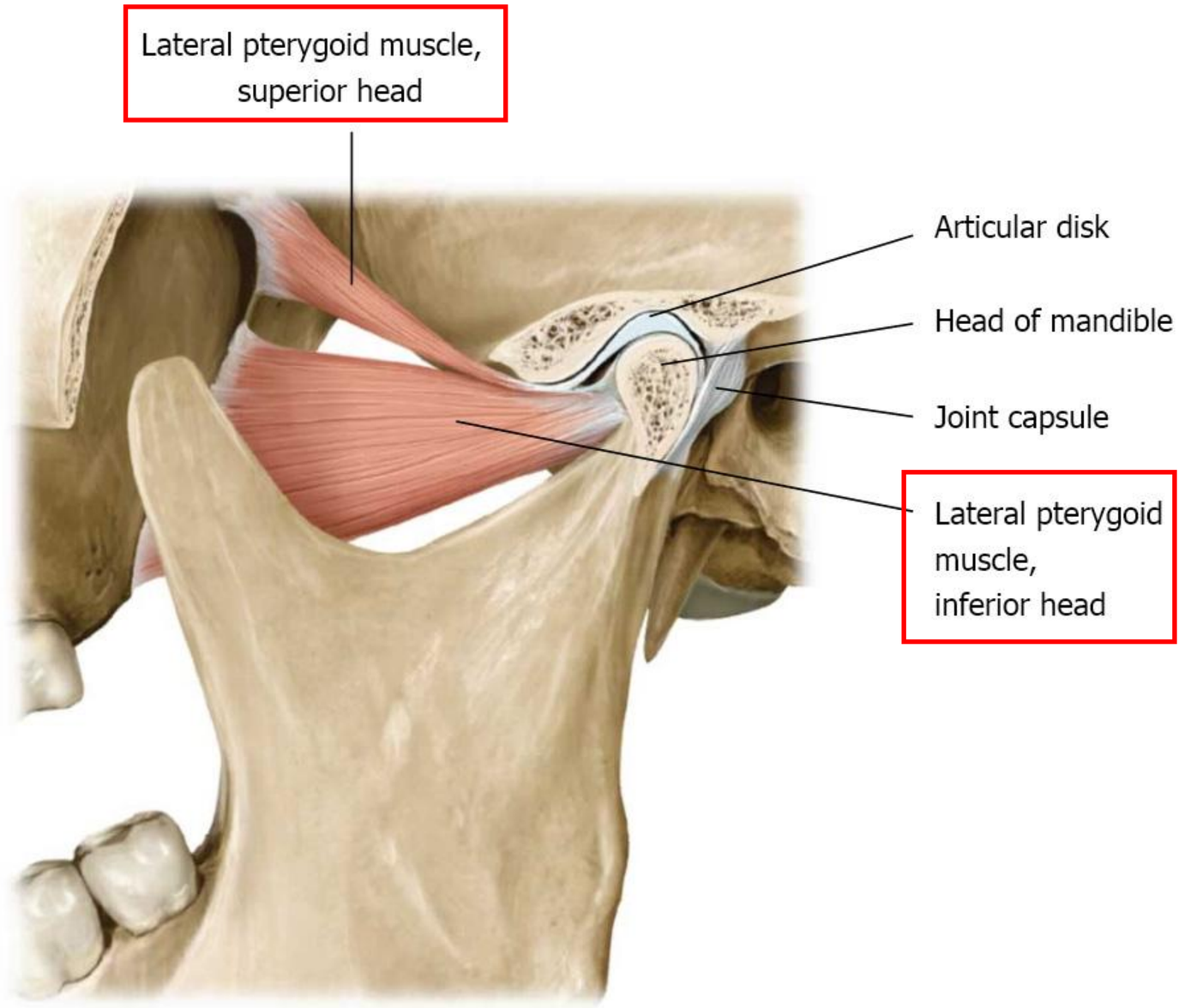
Botox

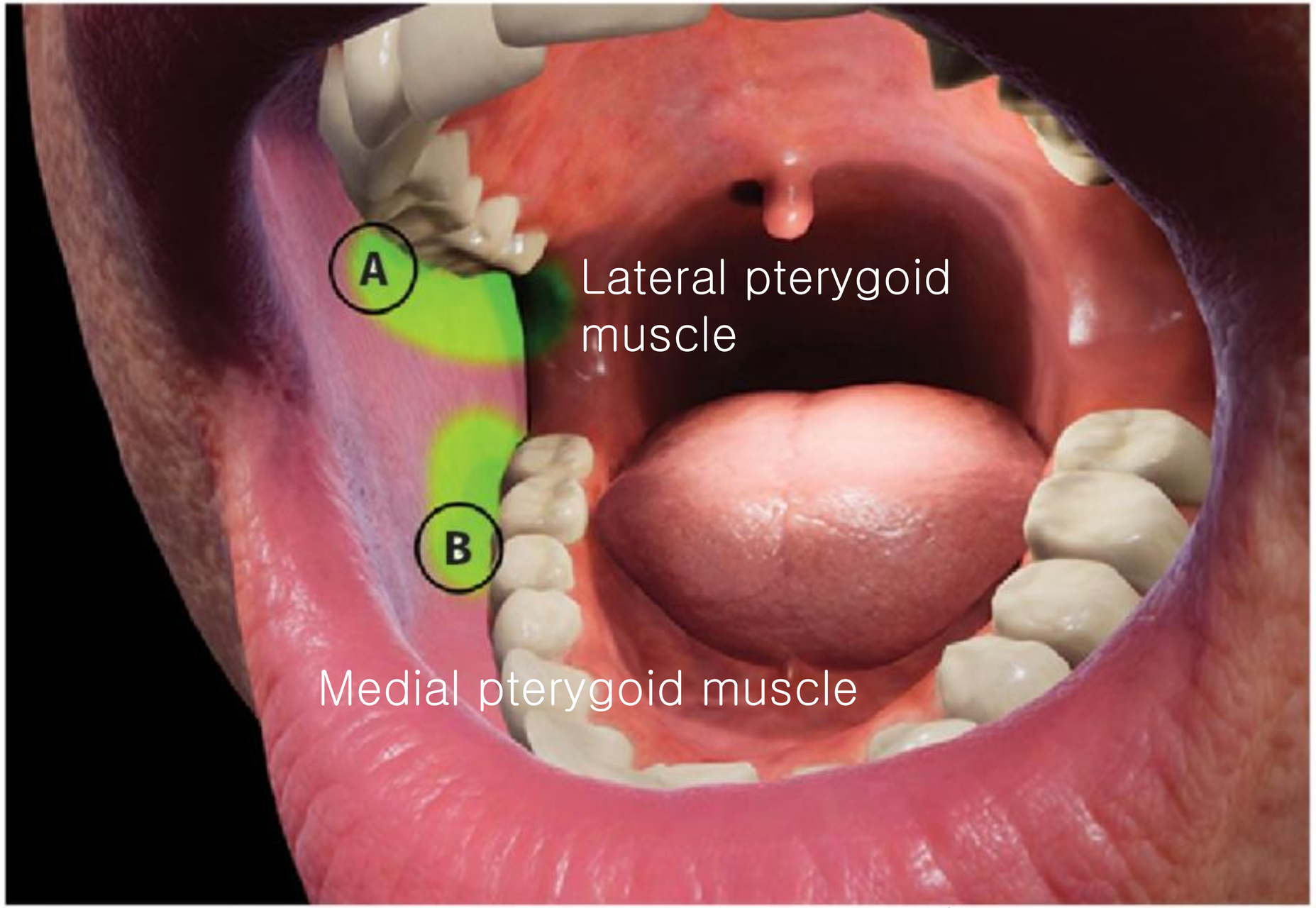


Traditionally focused
on jaw-closing muscles

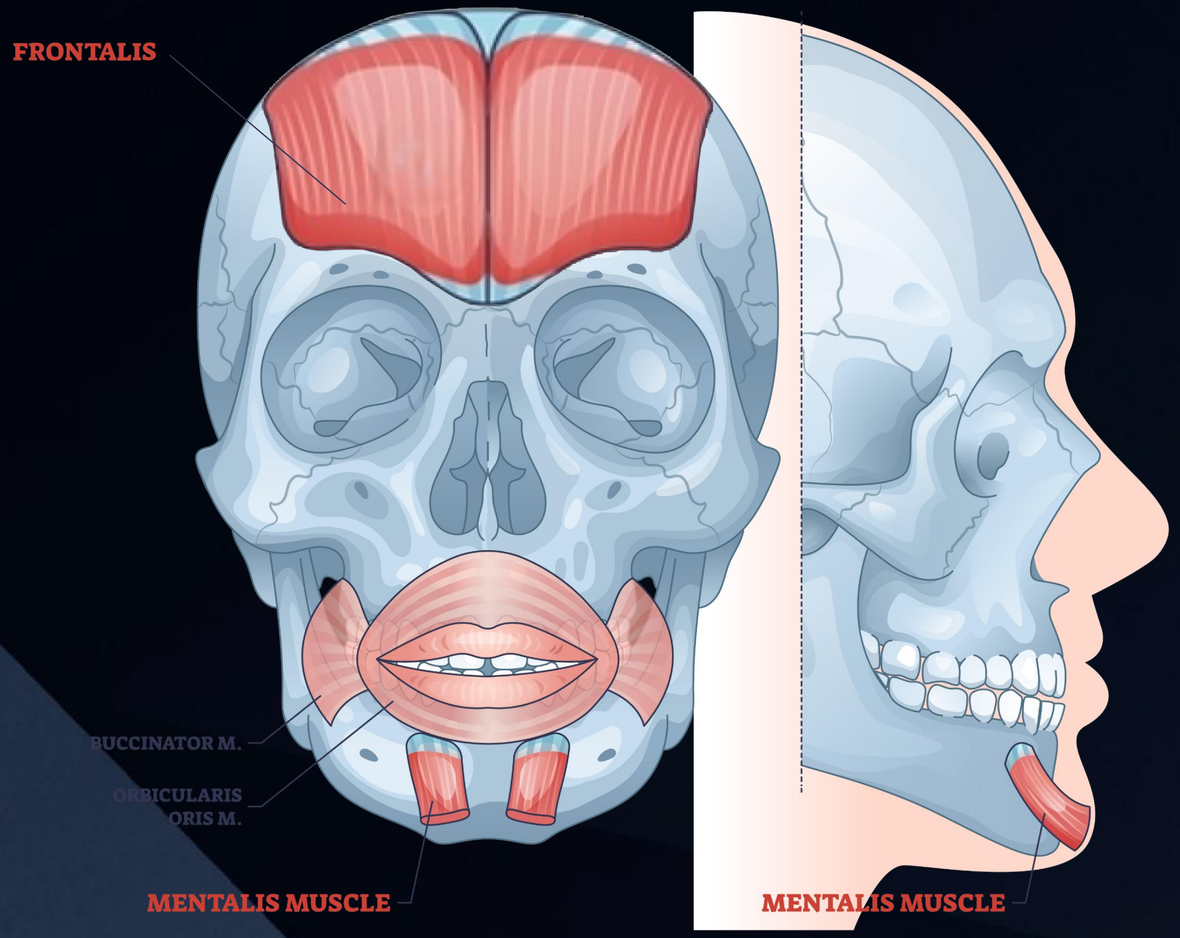
Limited to the masseter and
temporalis muscles


Temporalis
Articular eminence
Glenoid fossa
Articular disc
Lateral pterygoid
Medial pterygoid
Masseter
Text
Photo Courtesy of Dr. Liam Moore


Lateral pterygoid muscle, superior head
Articular disk
Head of mandible
Joint capsule
Lateral pterygoid muscle, inferior head


A
Lateral pterygoid muscle
B
Medial pterygoid muscle

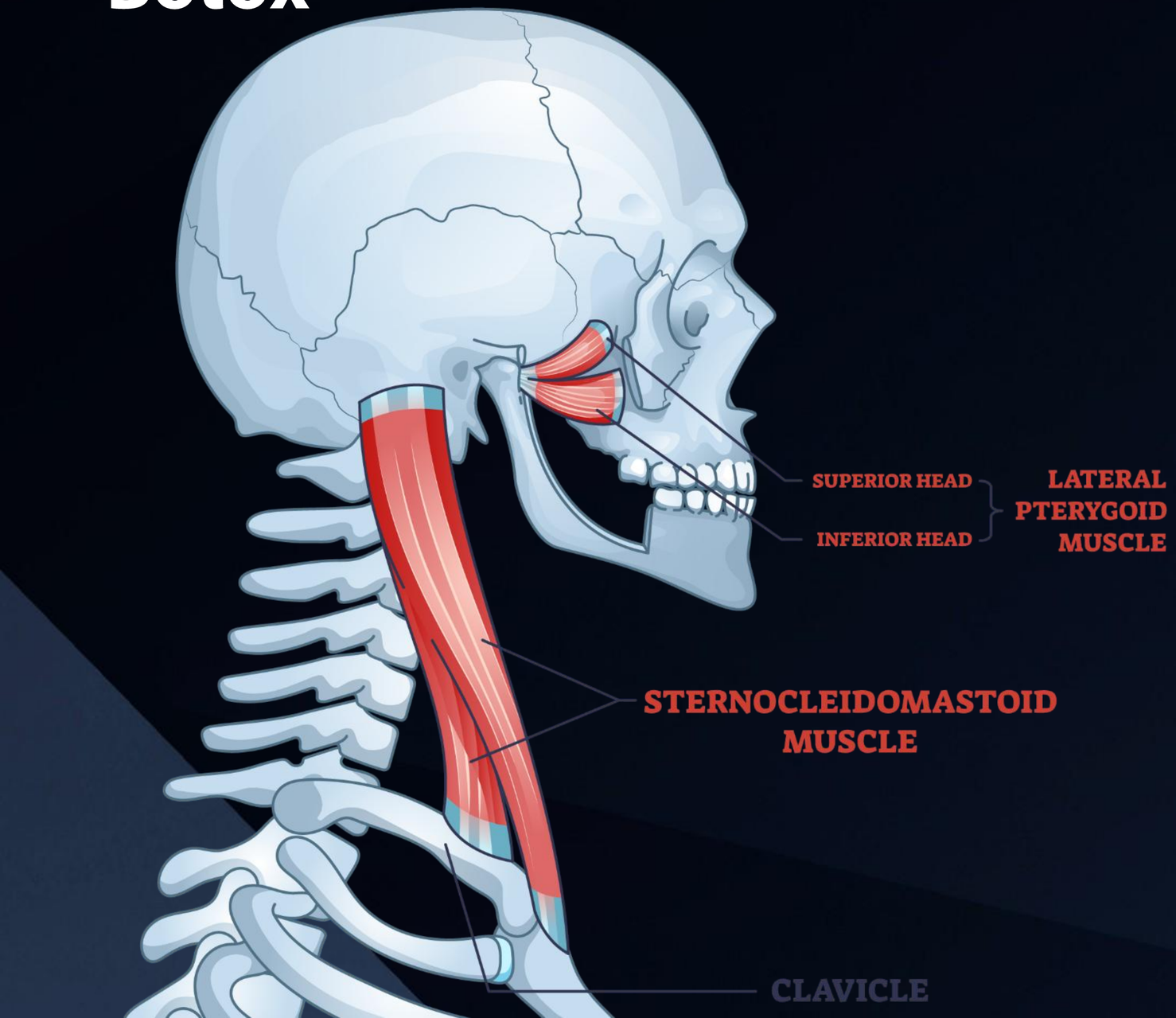
Botox



Glabellar and forehead line correction aimed at balanced brow and forehead harmony

Reducing dynamic wrinkles and puckering in the chin area

Botox



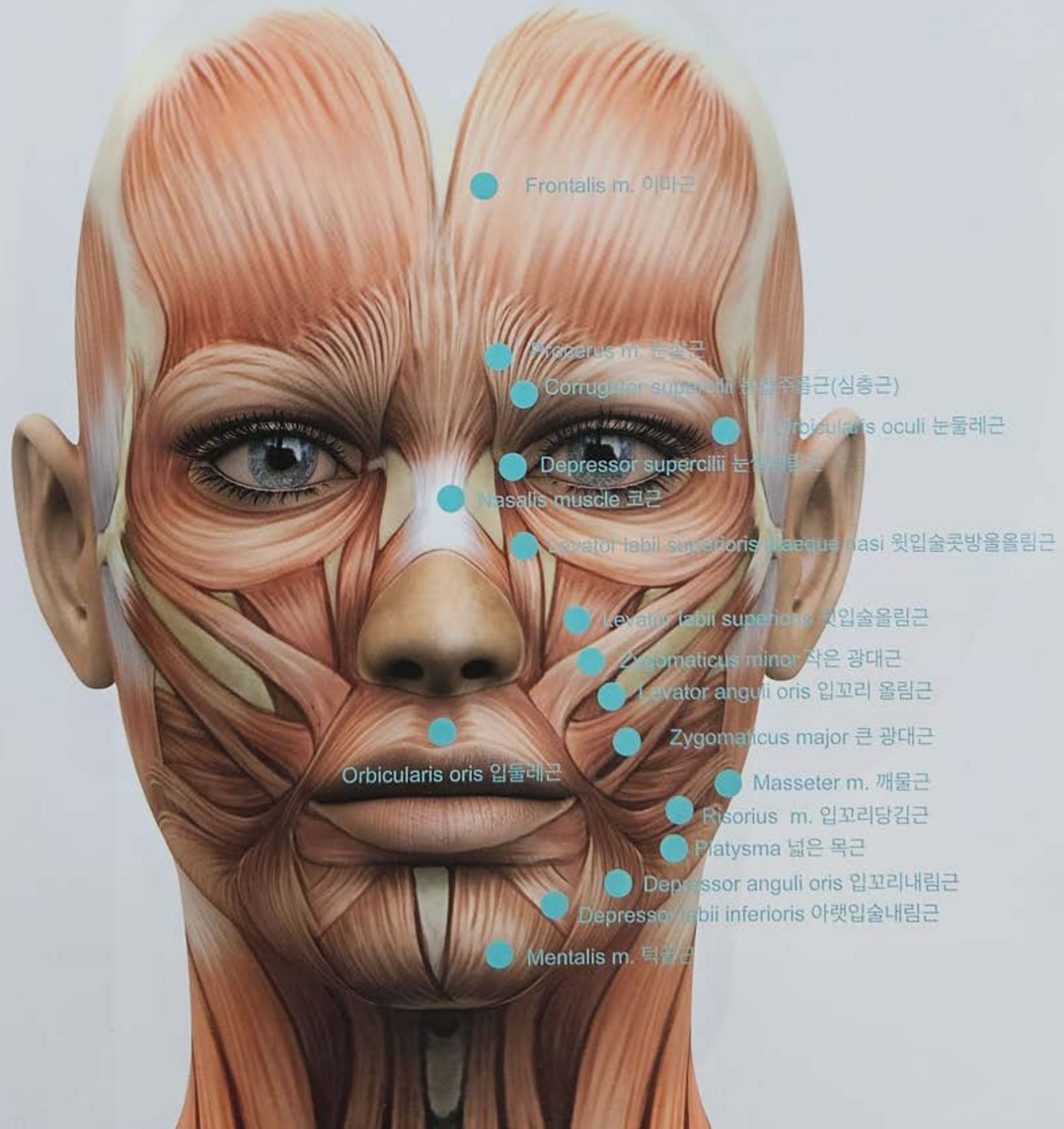
Expanded to include
External pterygoid muscle
and **Sternocleidomastoid muscle**

Presenting various clinical options
for temporomandibular and
neck muscle disorders

Botulinum toxin injection & Jaw management

** 348p TMJ PDRN VOD

Facial muscles



Skin care
Stopping the secretion of sweat & oil gland

Smile line correction
Asymmetric gummy & unhappy smile

Bruxism & clenching Tx.
Teeth & implants protection Tx.
Temporomandibular disorders Tx.

etc.

Why at now Filler ?

Aged person wrinkle

Dermal filler

Increase soft-tissue volume to improve and soften facial contours

Filling spaces created by aging, trauma, or other causes of volume loss

Types of fillers

Hyaluronic acid - 6 to 18 months

CaHA - 12 to 18 months

PLLA - over 2 years

PCL

FILLER INJECT

Outer Oral Injection
Intra Oral Injection

Hyaluronic Acid Dermal Filler

MONALISA

Long-term Volume Up

Dentium Dental Clinic
Dr. SM Chung

** 355p Filler VOD 4

Clinical case : Lip, Chin, Nasolabial fold

Before(2025-06-16)			
After (2025-06-16)			
1M After (2025-07-09)			

The left side

Before (2025-06-16)

After (2025-06-16)

1M after (2025-07-09)

The front of

Before (2025-06-16)

After (2025-06-16)

1M after (2025-07-09)

The right side

Before (2025-06-16)

After (2025-06-16)

1M after (2025-07-09)