Minimalism with materials

Stress less

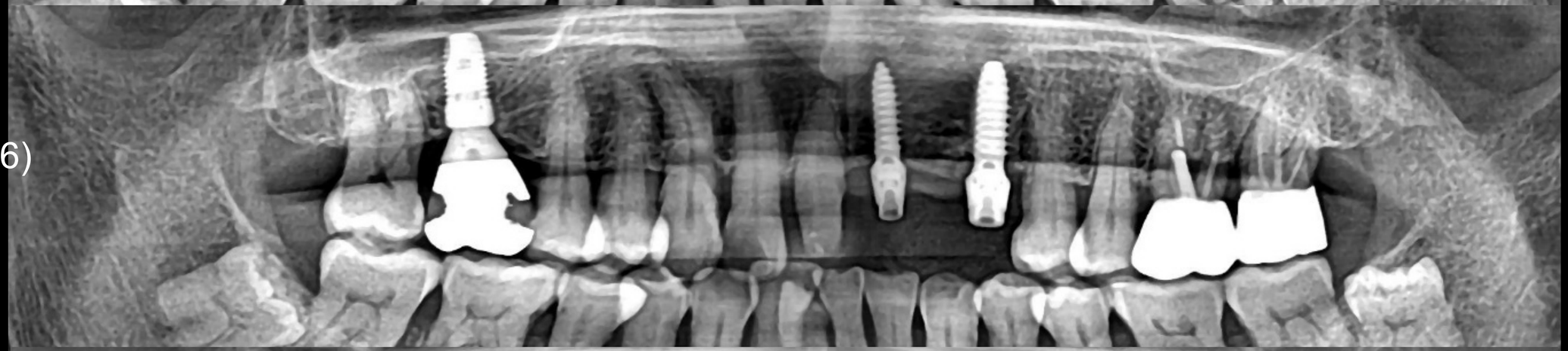
Practical

Efficiency

Dr.SM Chung

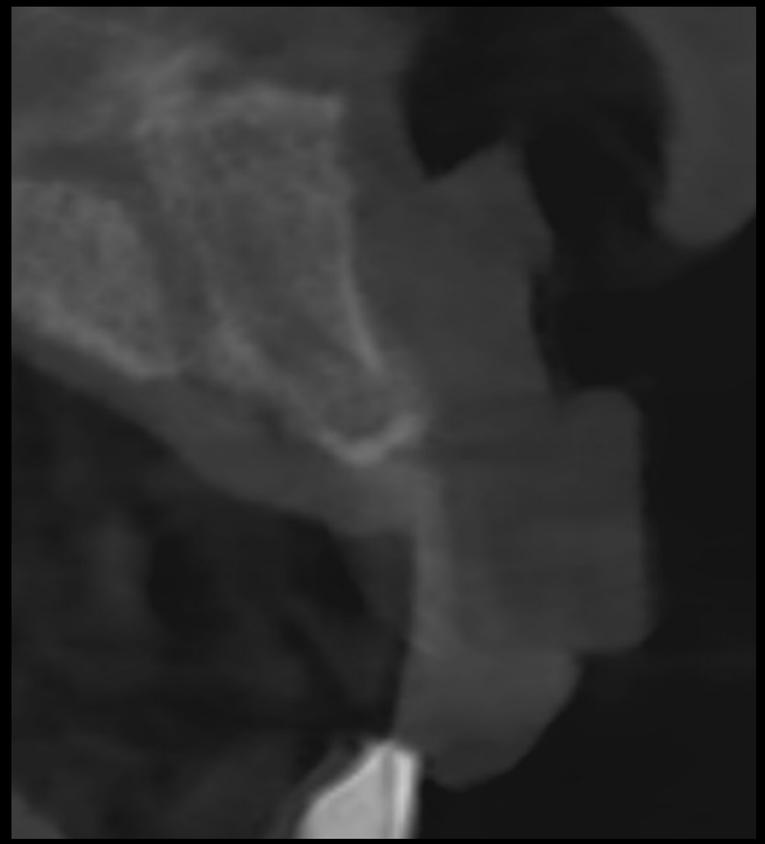
Pre-op (2023-09-06)

Post-op (2023-09-06)

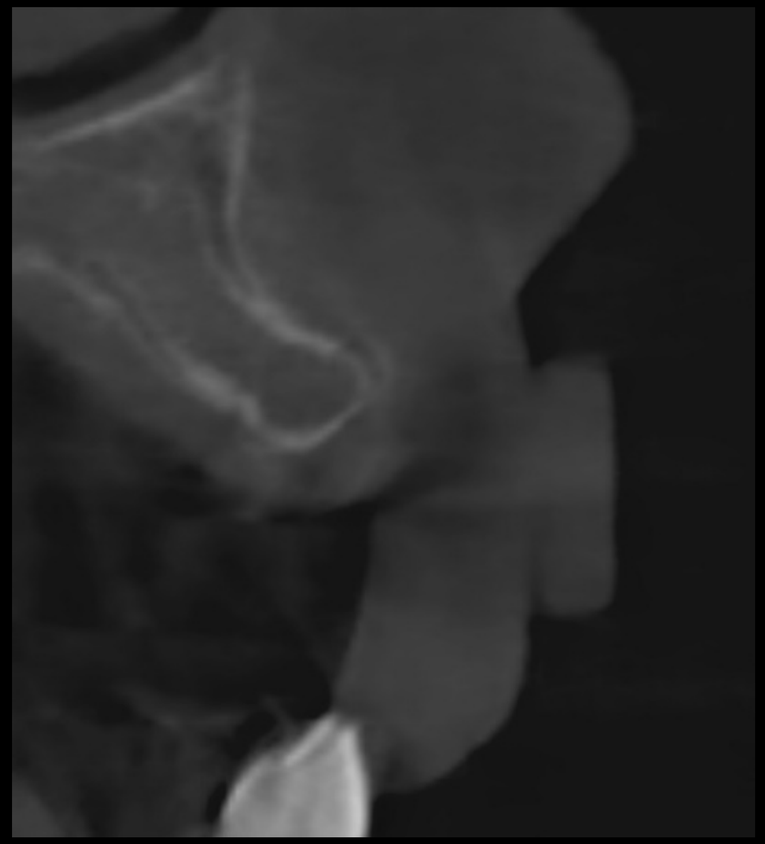


Final prosthesis (2023-11-02)

Pre-op CT (2023-09-06)

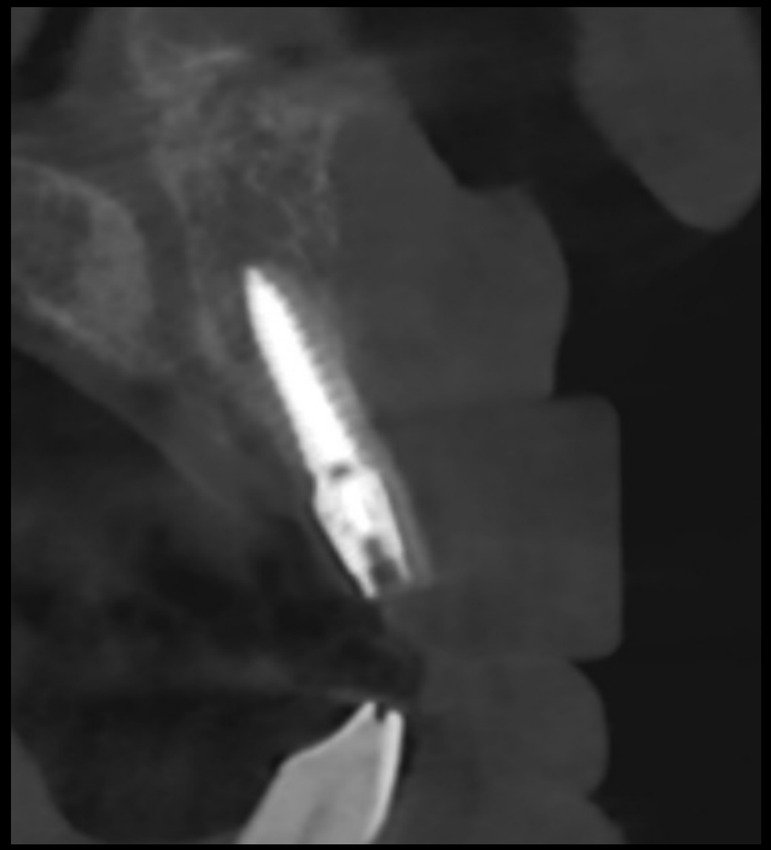


#21



#22

Pre-op CT (2023-09-06)

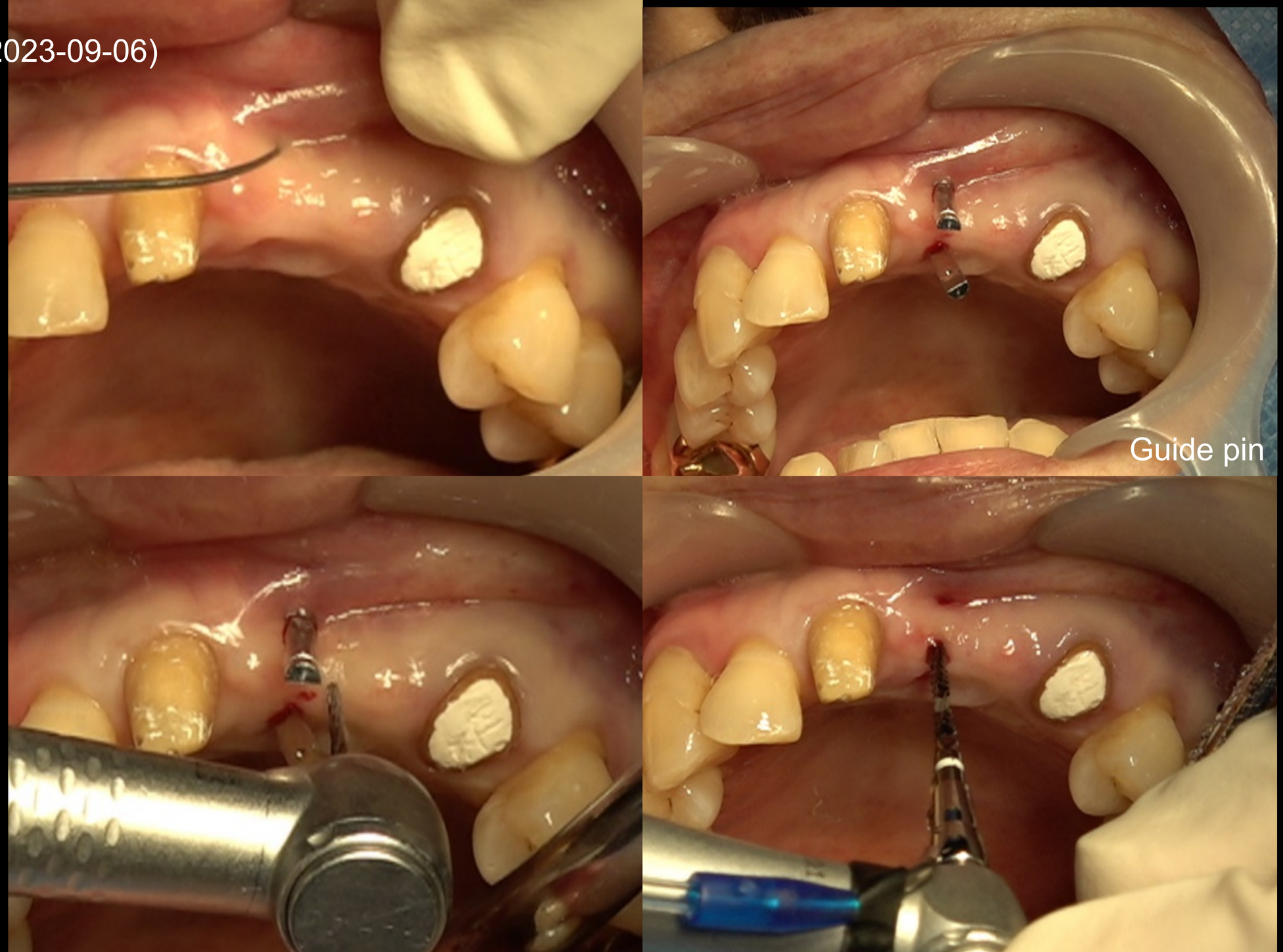


#21

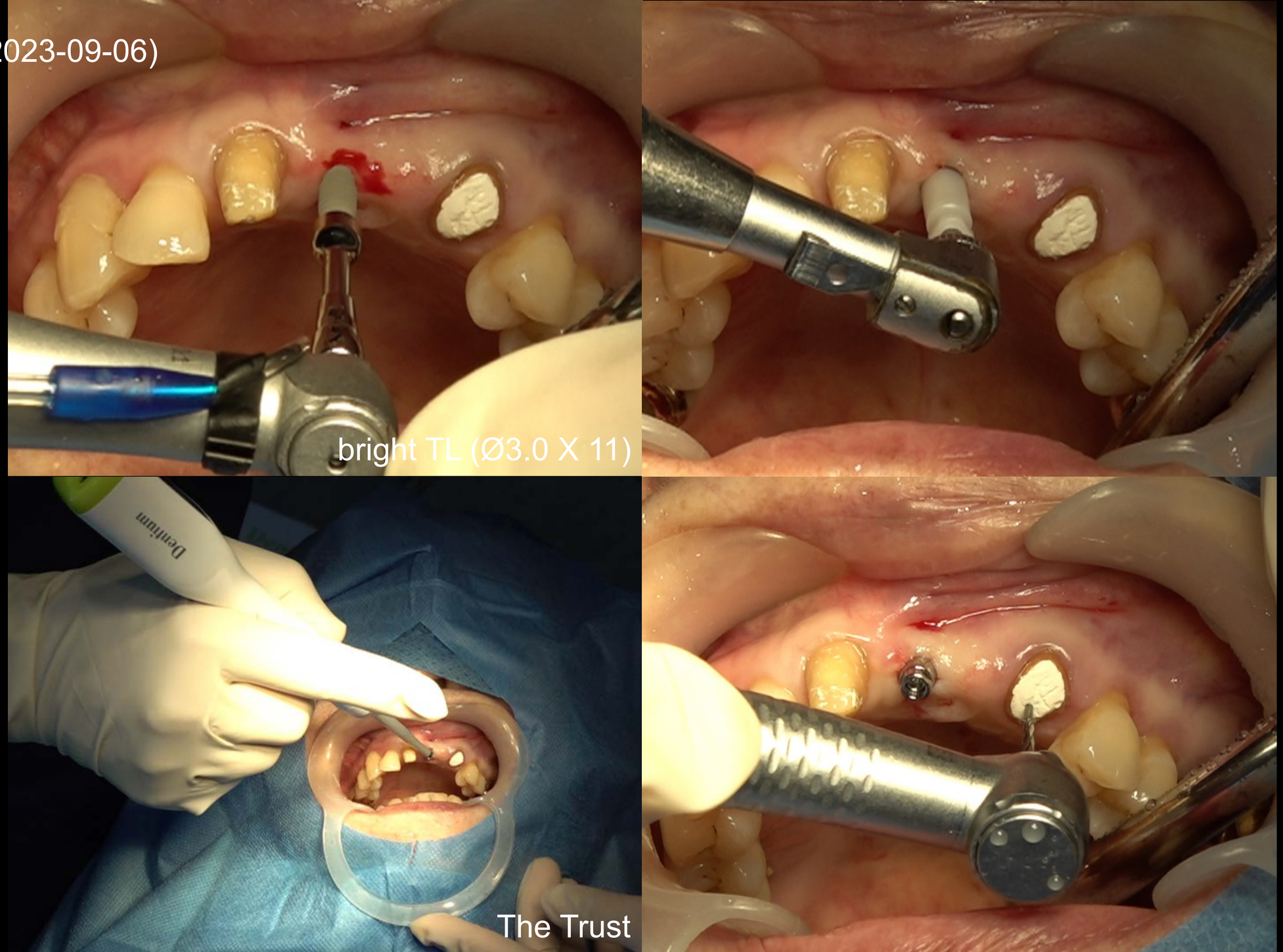
#22

Pre-op (2023-09-06)

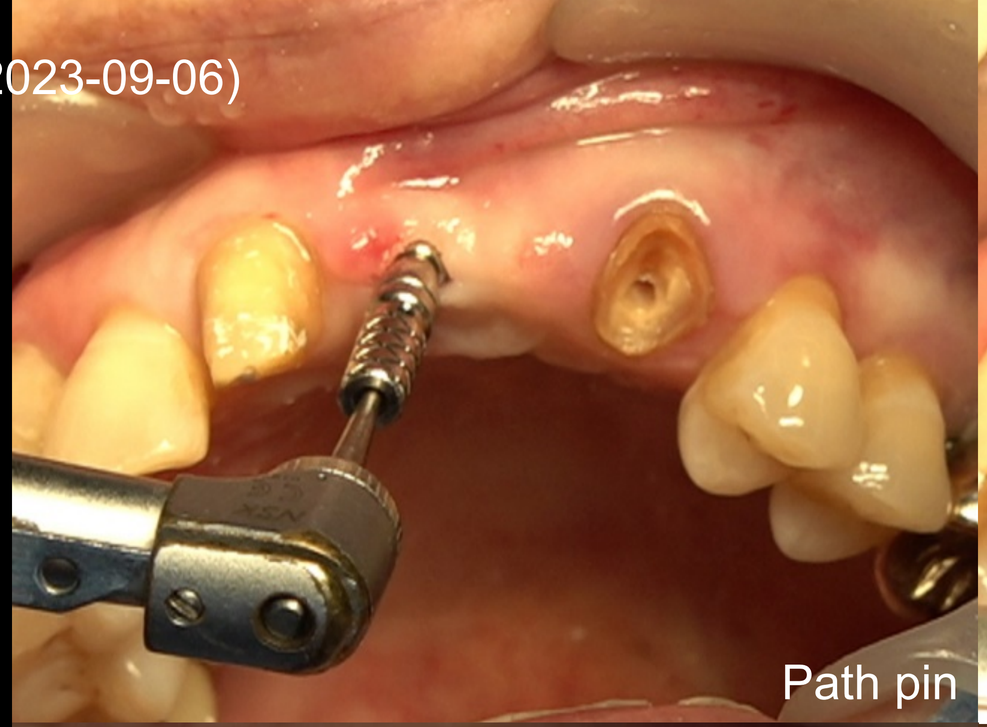
Surgery (2023-09-06)

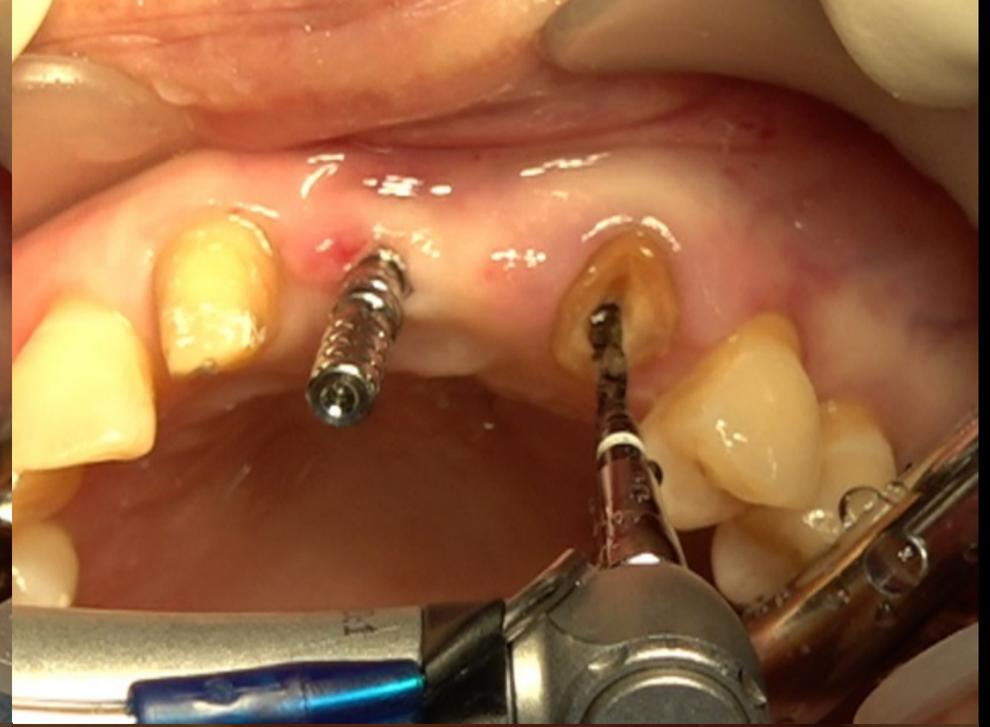


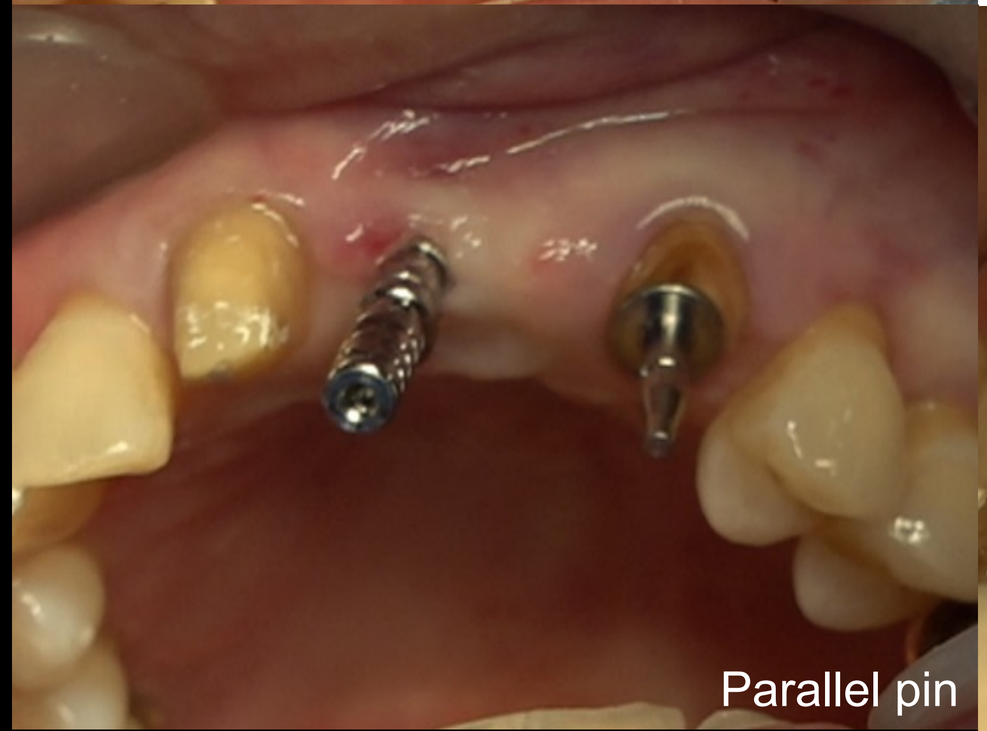
Surgery (2023-09-06)

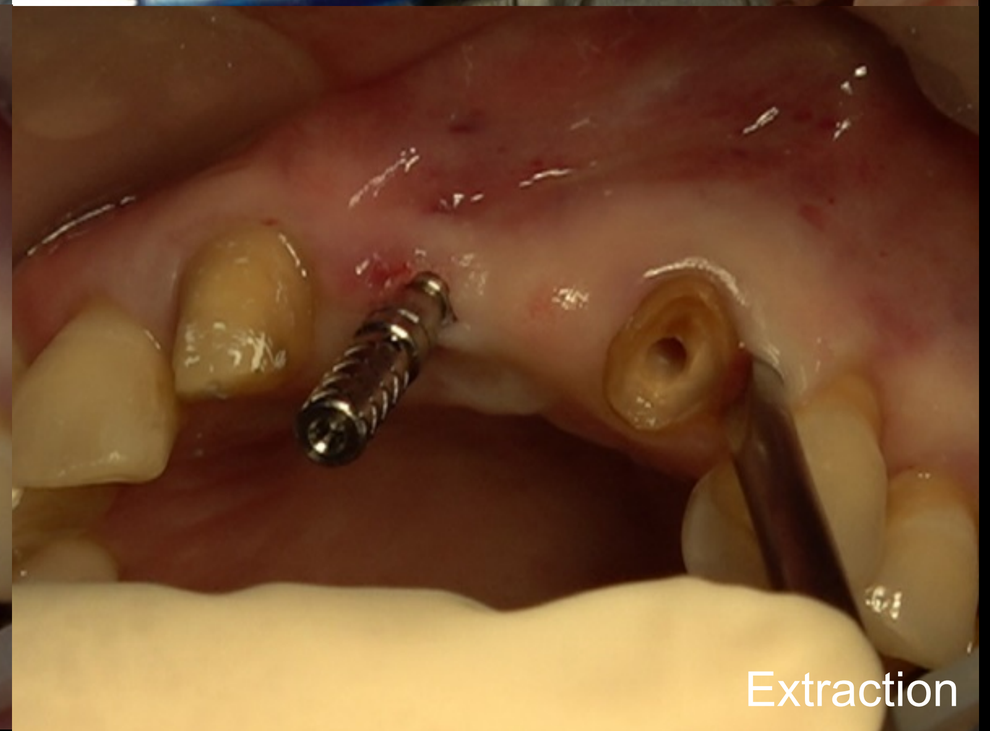


Surgery (2023-09-06)

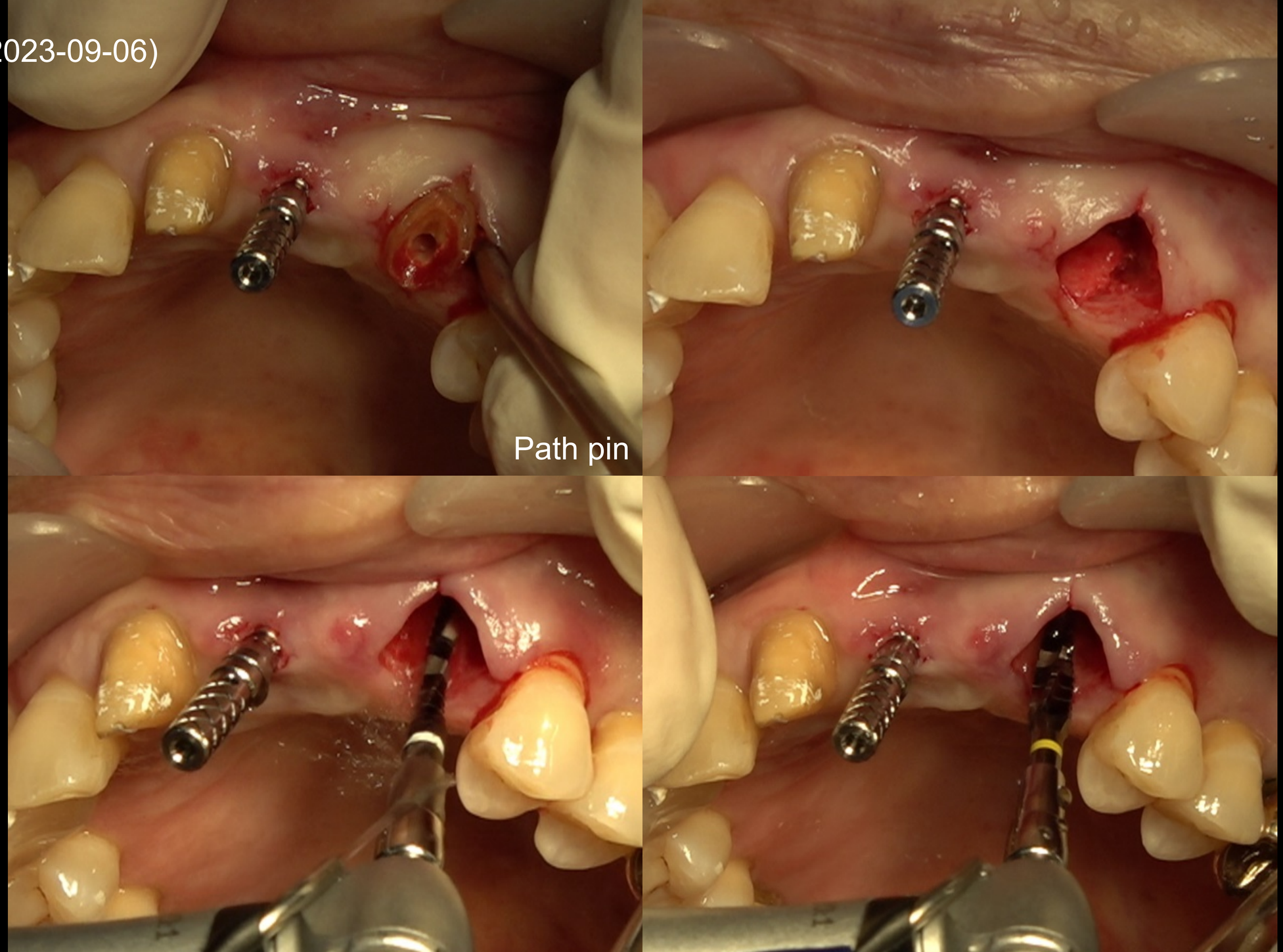




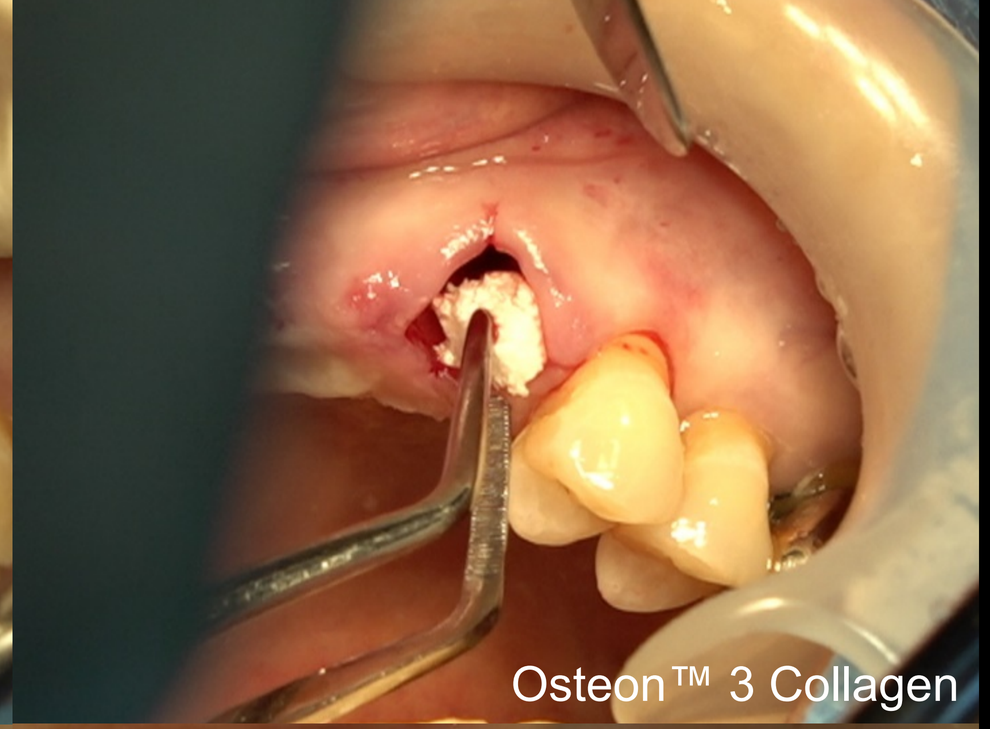


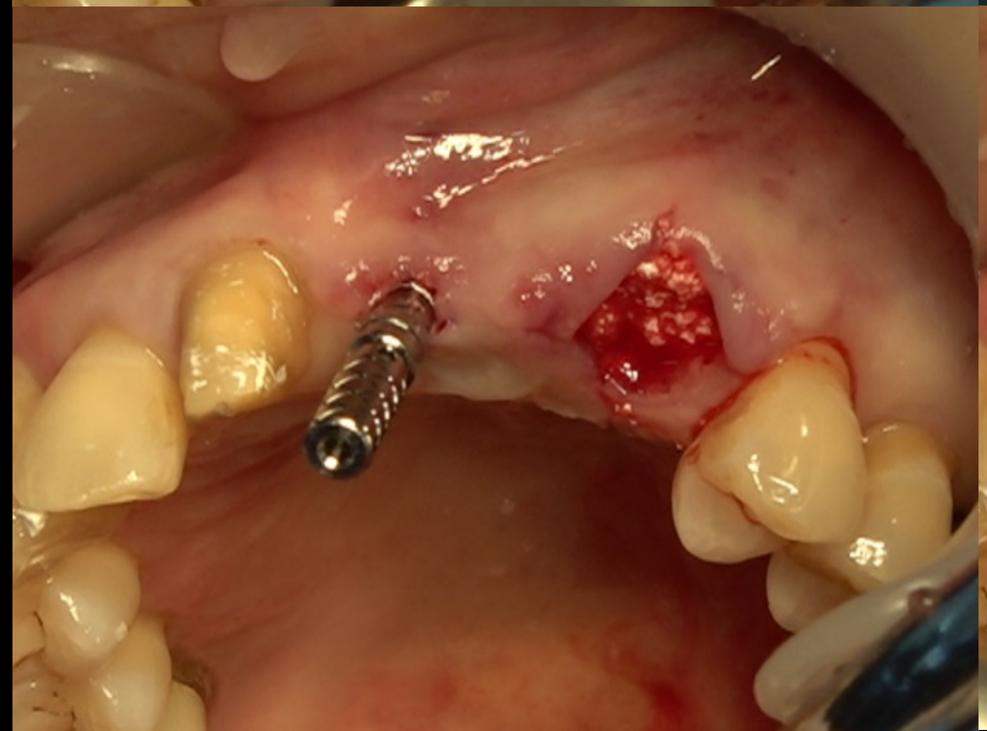


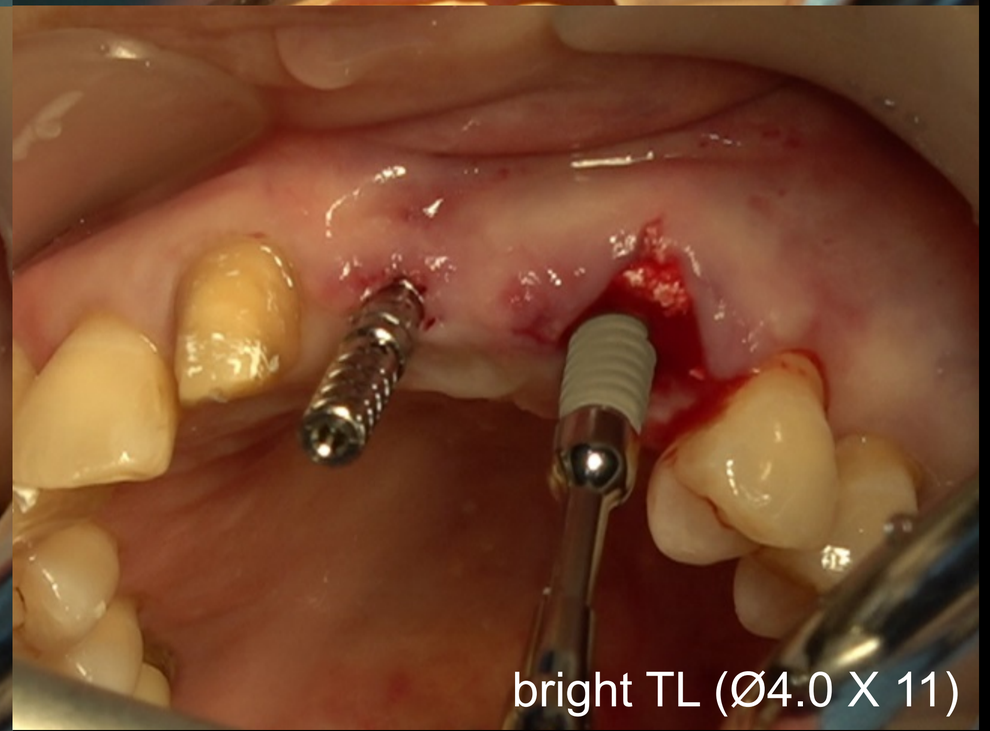
Surgery (2023-09-06)



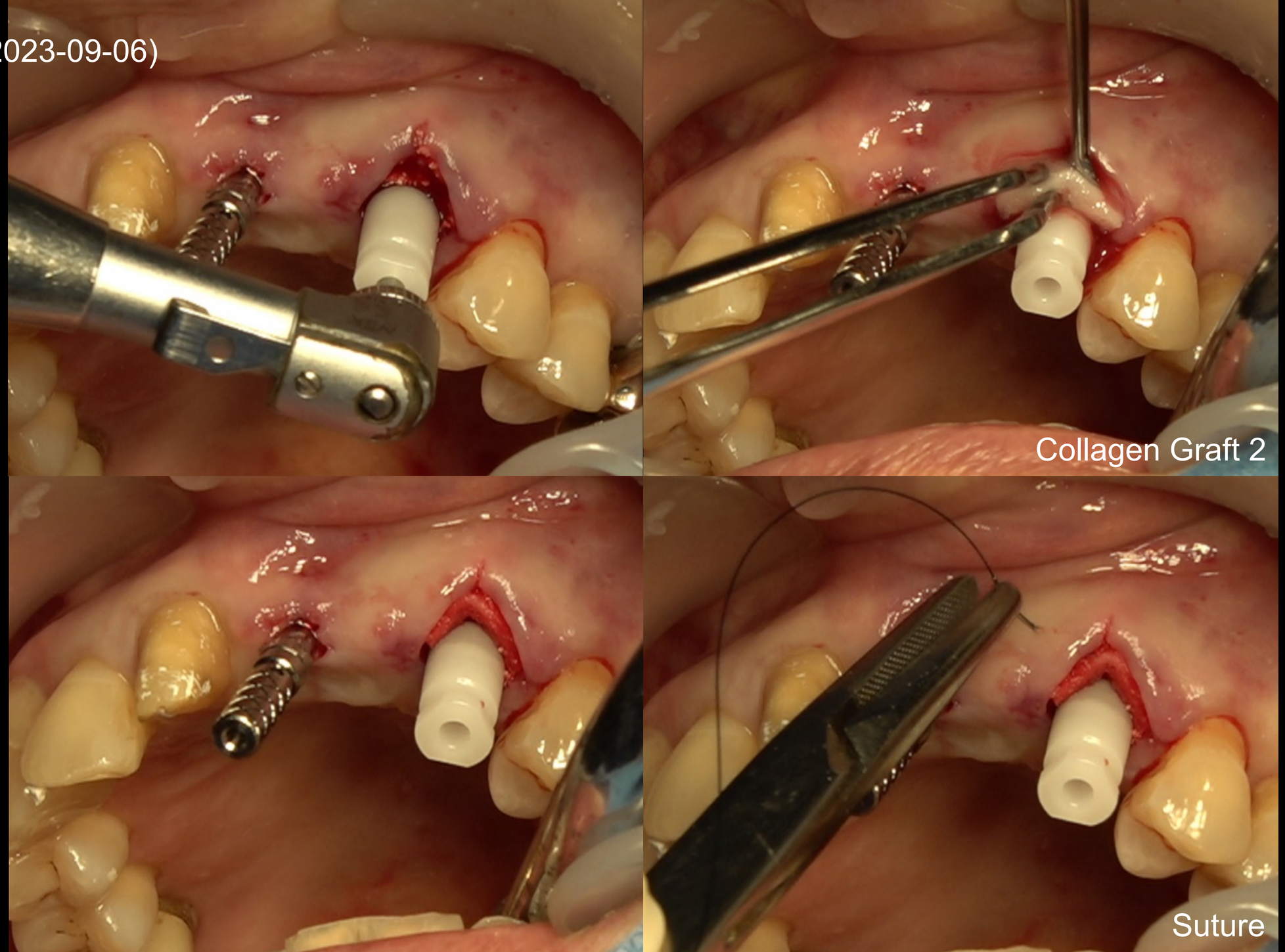
Surgery (2023-09-06)



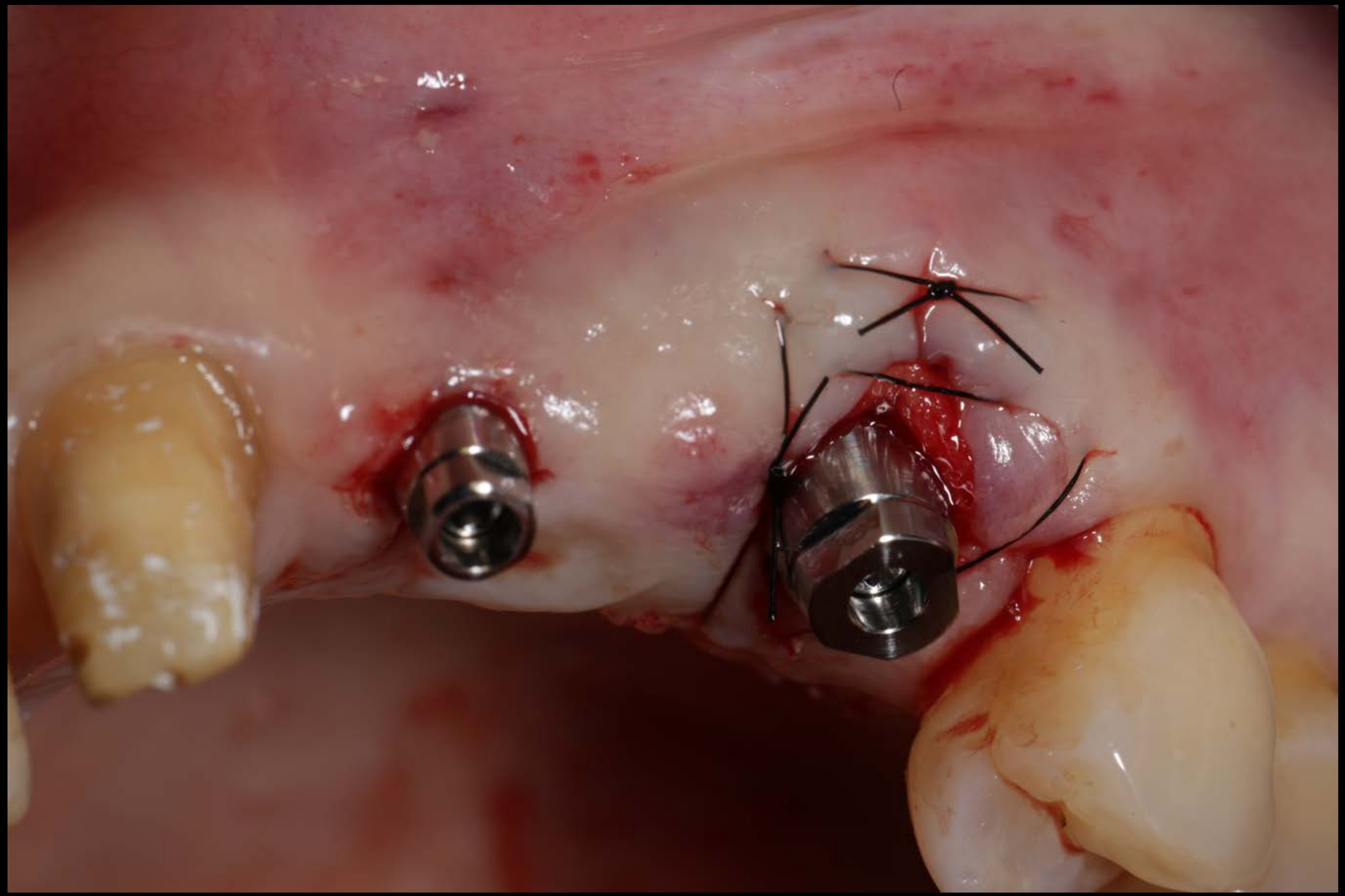




Surgery (2023-09-06)

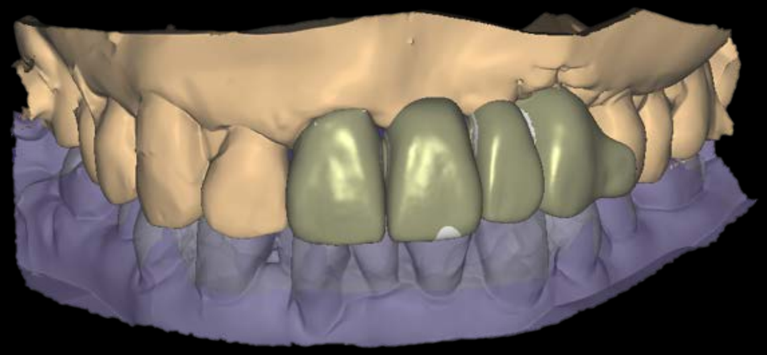


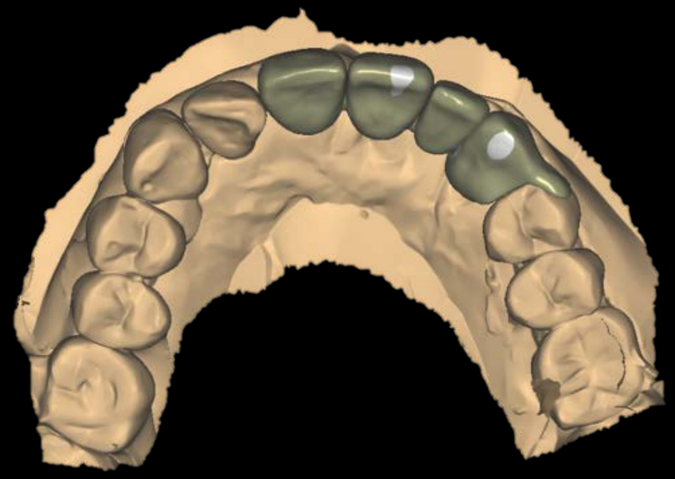
Post-op (2023-09-06)

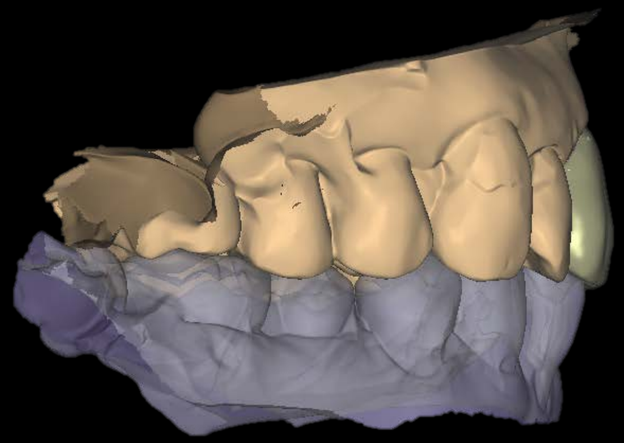


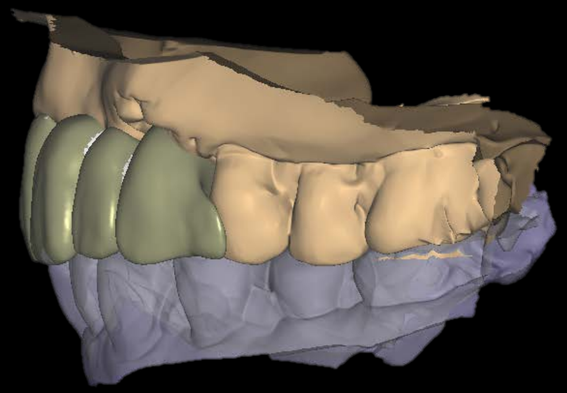
Intra-oral scanning

CAD (Temporary)









Provisional restoration (2023-11-02)

- OSTEON™ Xeno
- Collagen Membrane

- OSTEON™ Xeno with PDRN injection
- Collagen Membrane

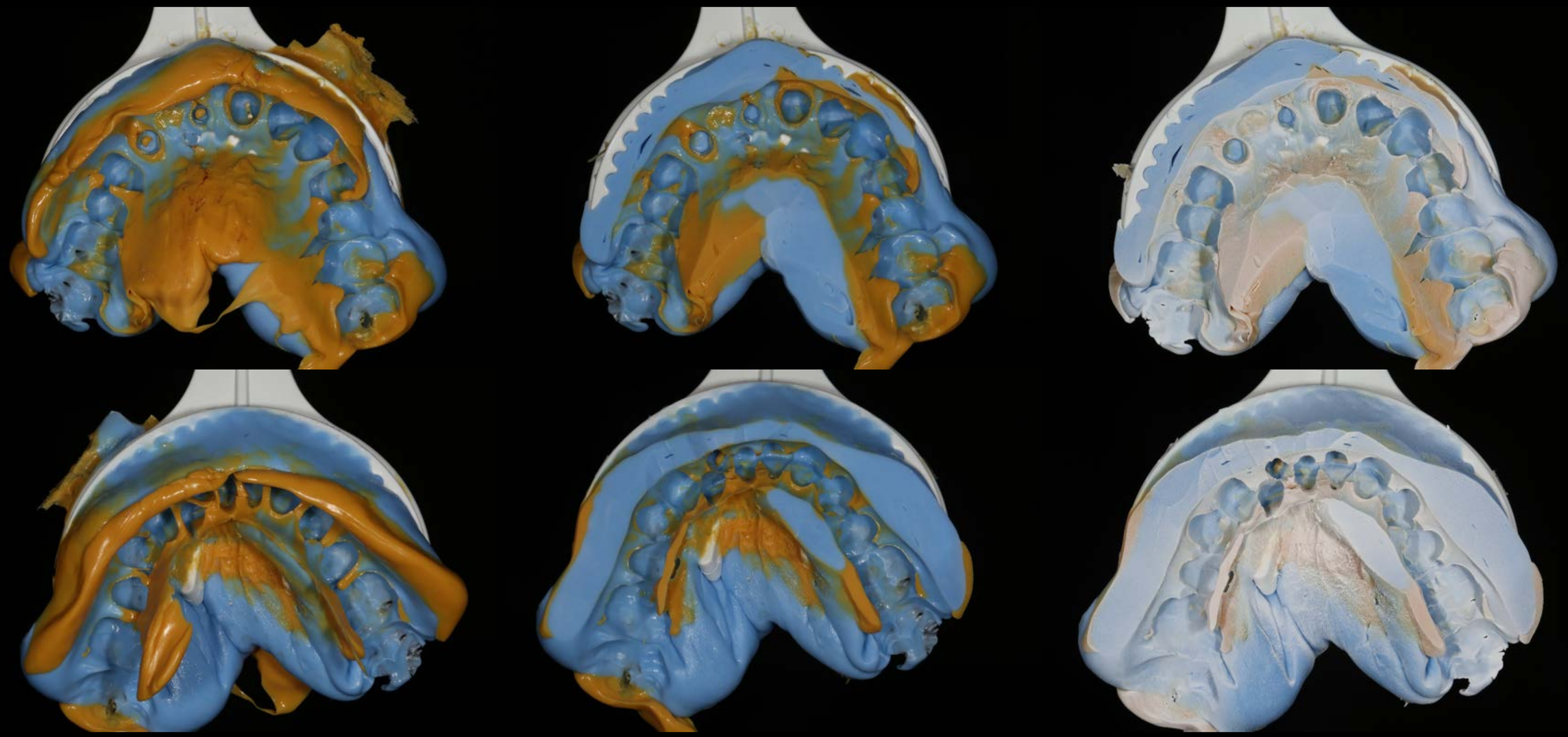
- **PDRN;**

  polydeoxyribonucleotide sodium

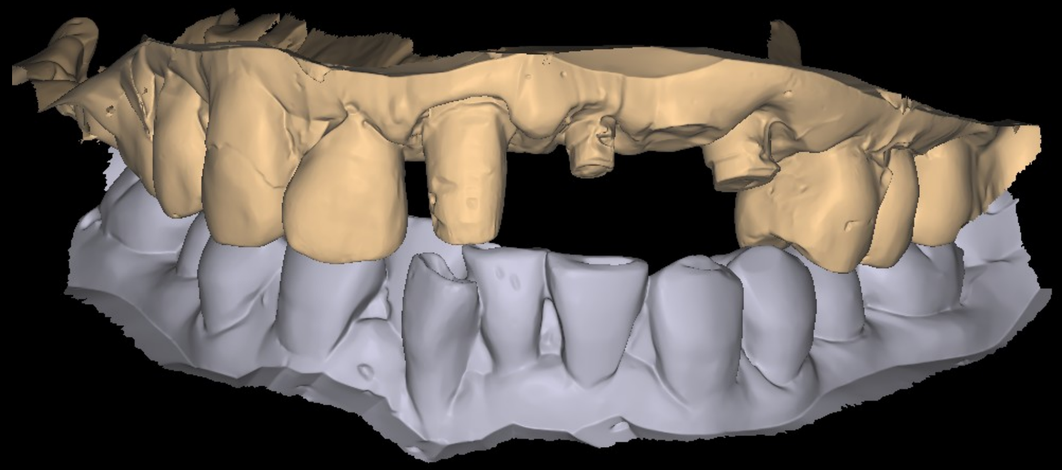
- Bone Patch

- OSTEON™ Xeno Collagen
- Collagen Graft 2

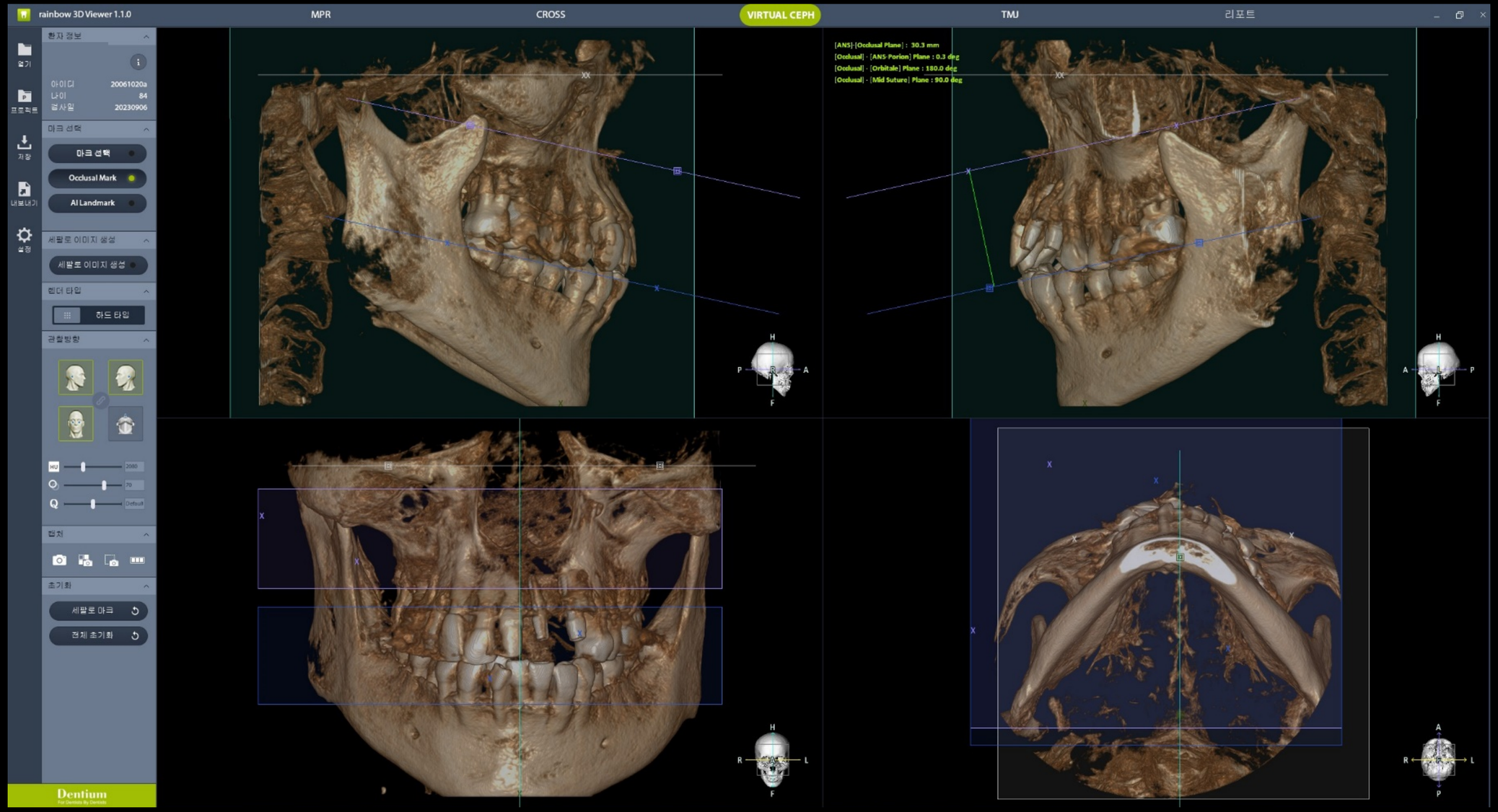
Impression / Trimming / Scan spray



Working Model



CT STL export (rainbow 3D Viewer)



bright CT 진단에서 치료로

Super Low dose & Large FOV (17.5X15)

100%

20% Low Dose

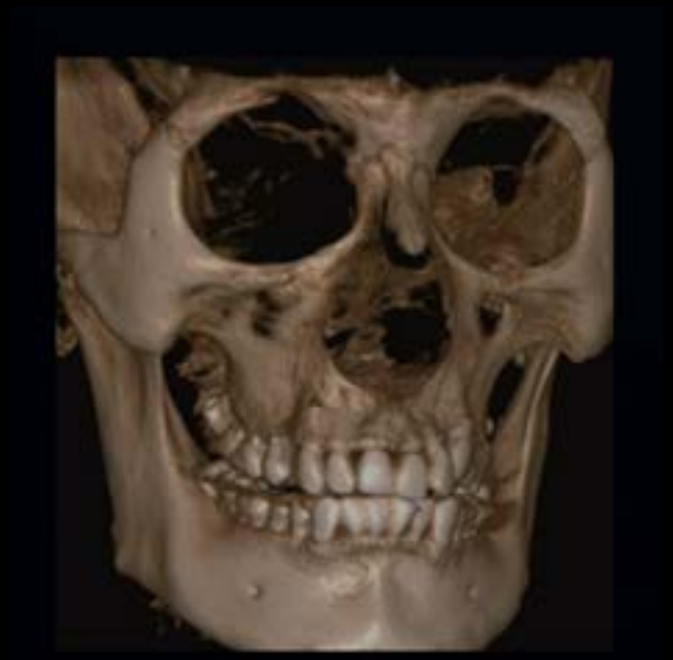
10% Low Dose

bright Metal Artifact Reduction : Clear Image

OFF

ON

Large FOV



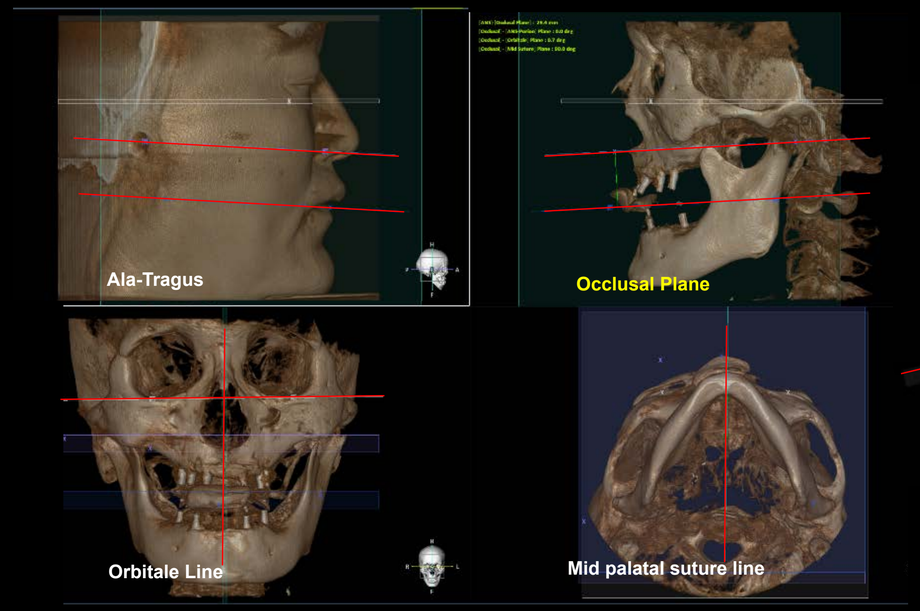
17.5X15 (2Tile Stitching)

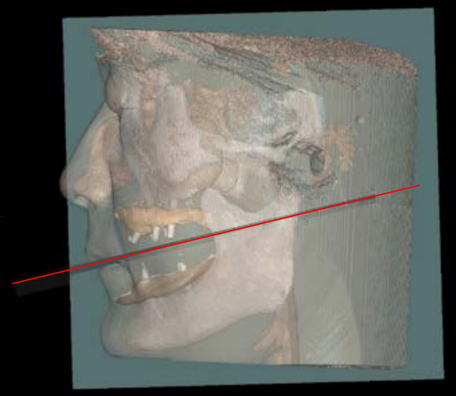
bright CT 진단에서 치료로

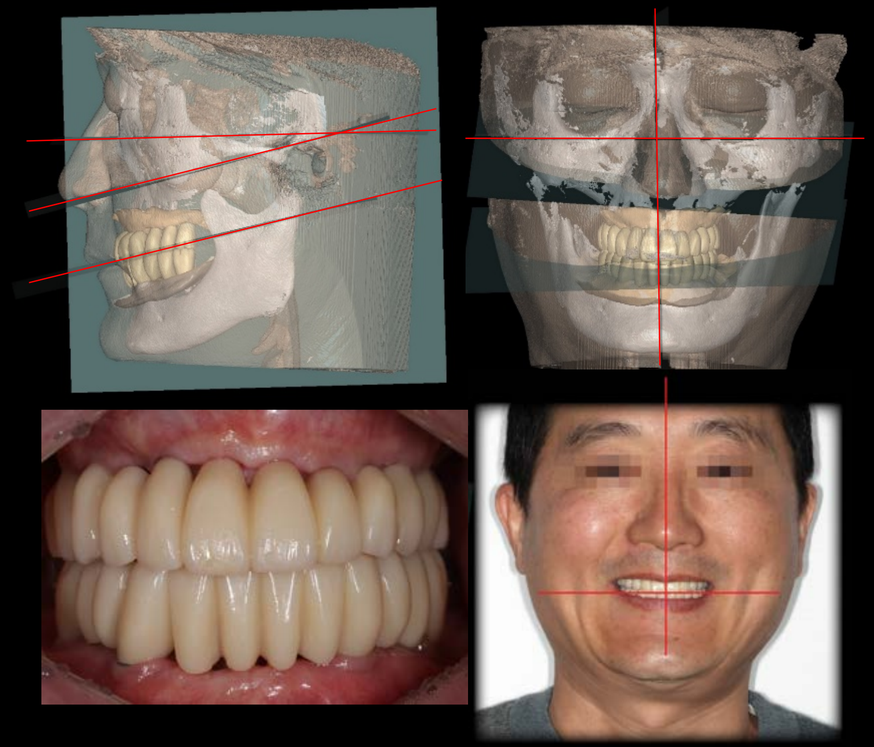
New Function

AI Occlusal Plane

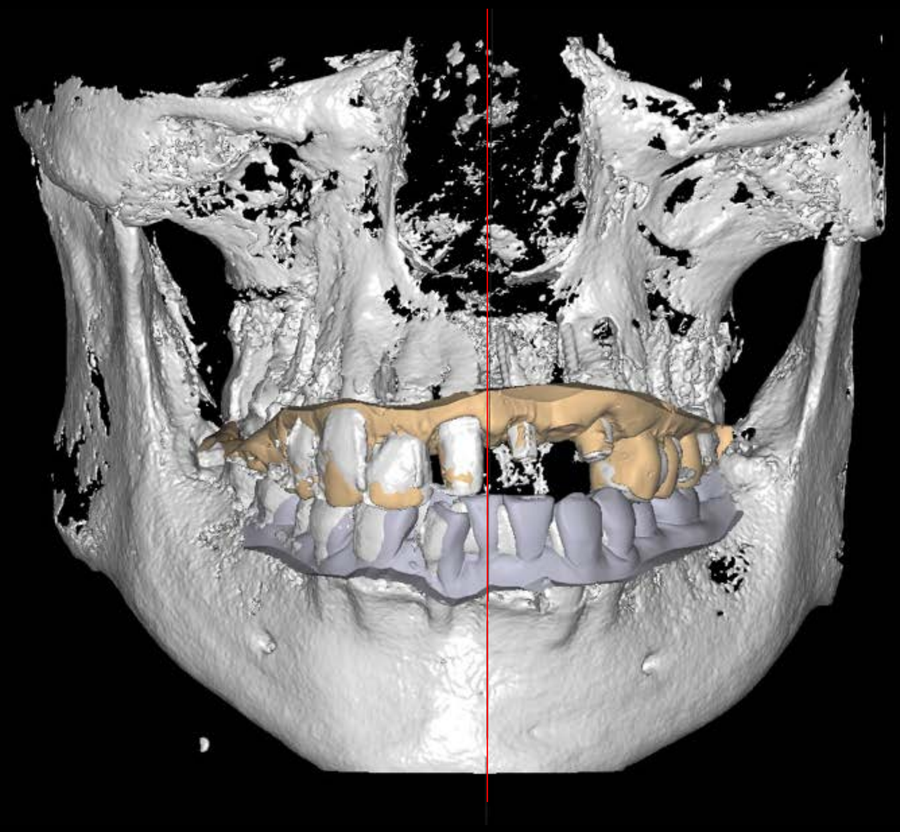
Auto Set occlusal plane from anatomical landmark on CT

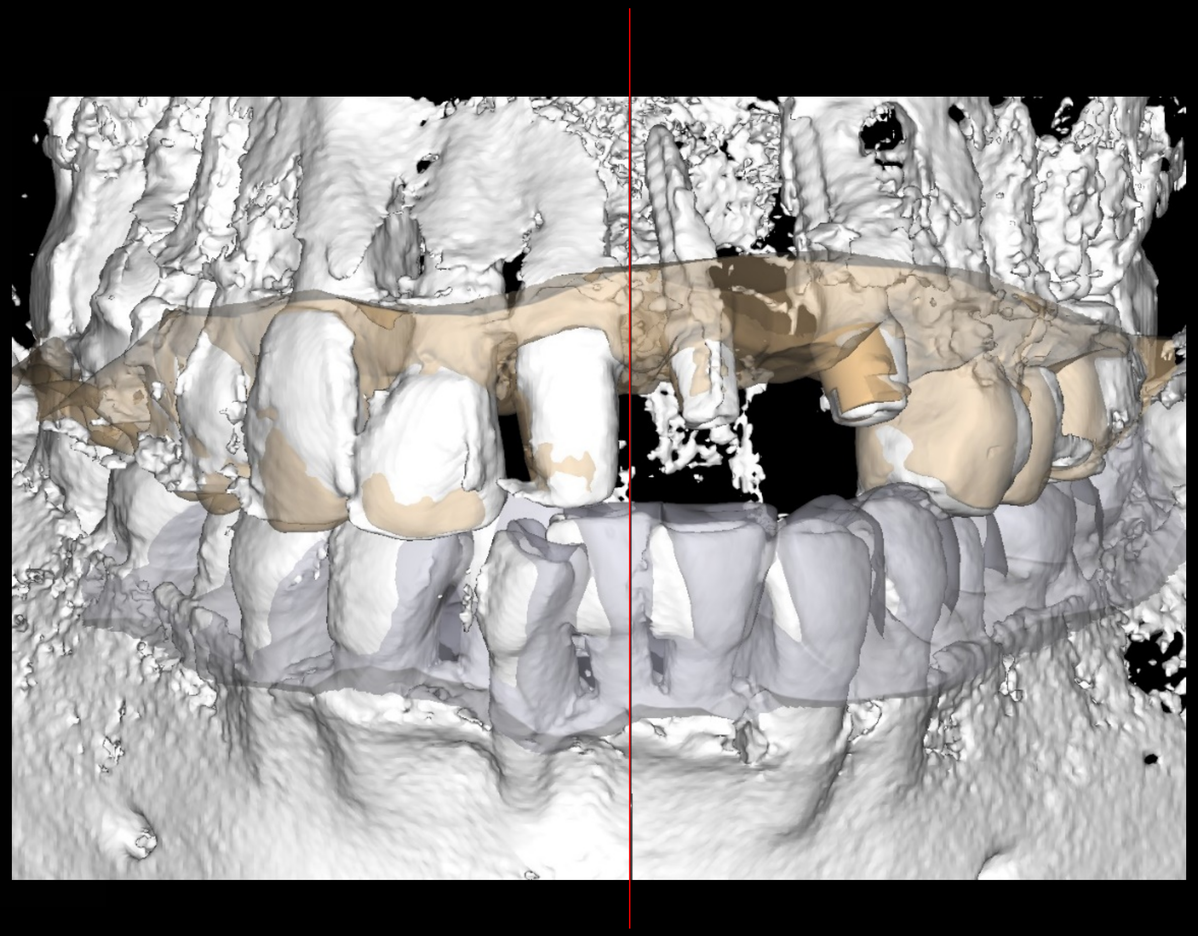




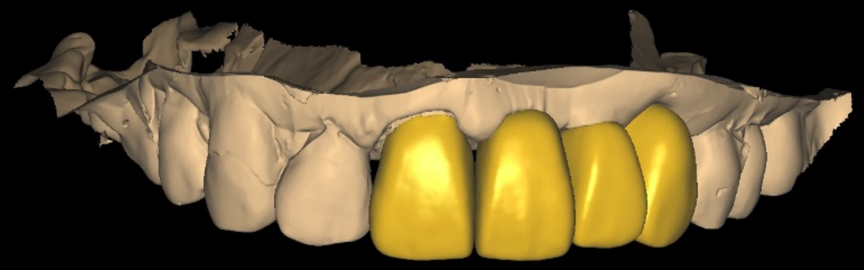


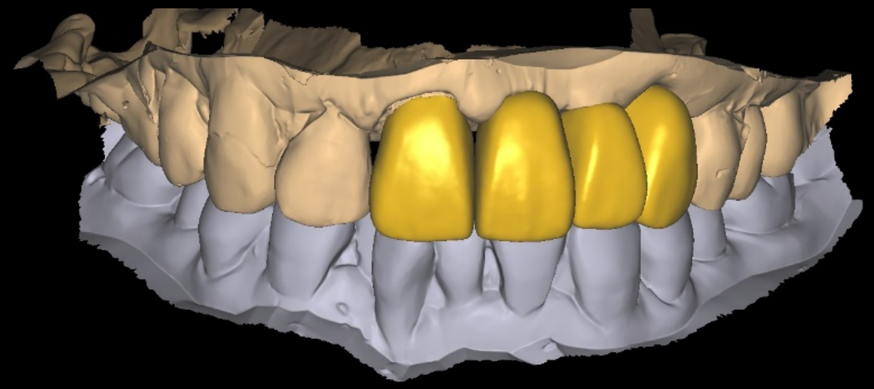
CT STL & working model stitching

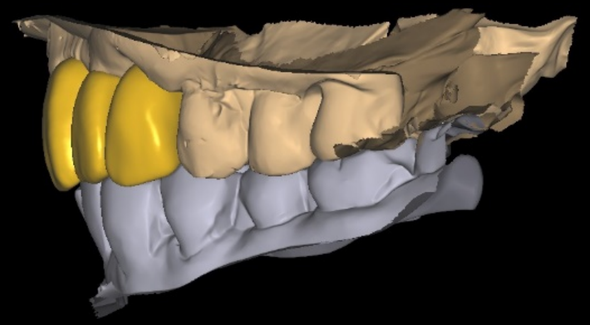




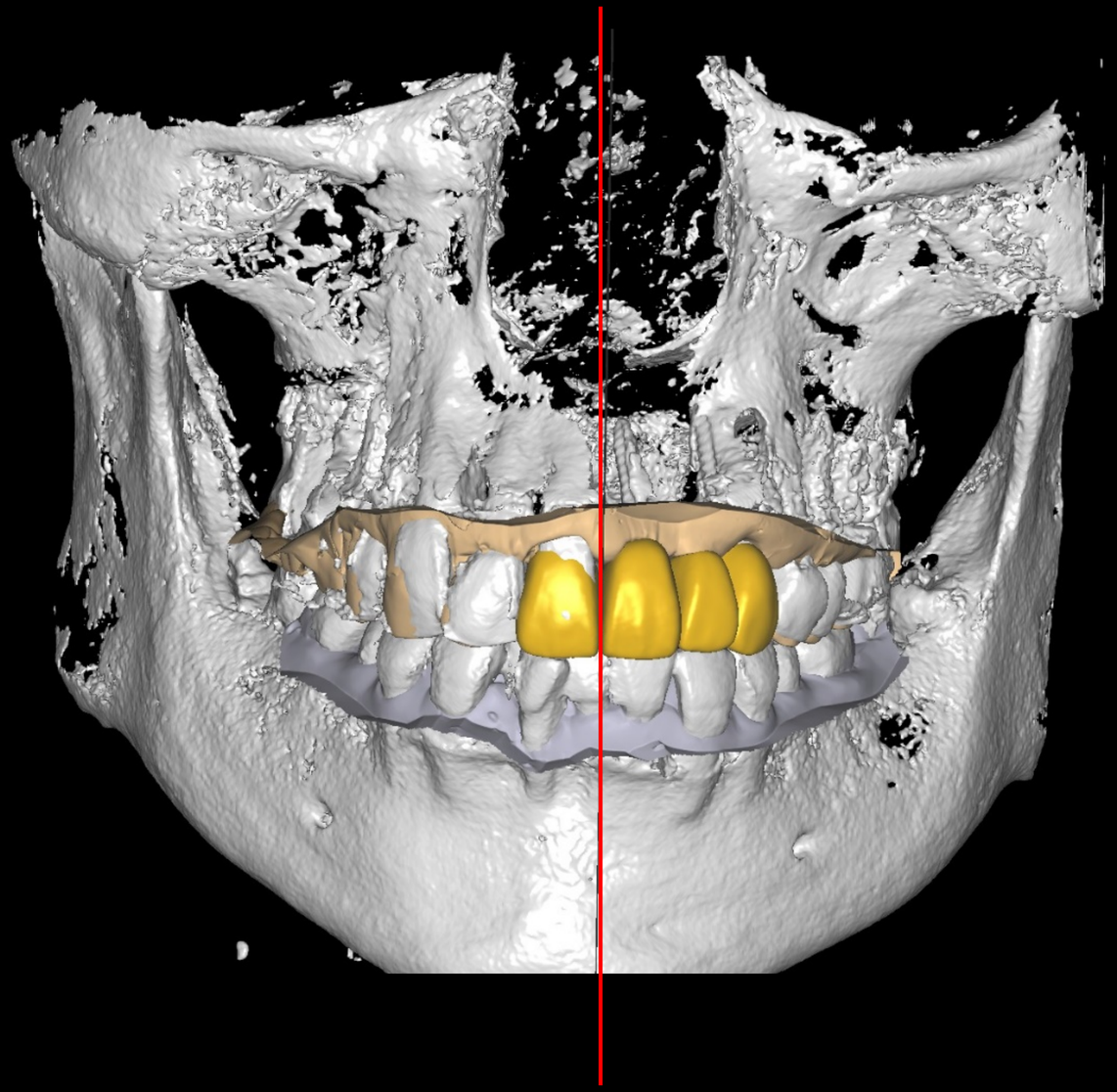
CAD (Final prosthesis)



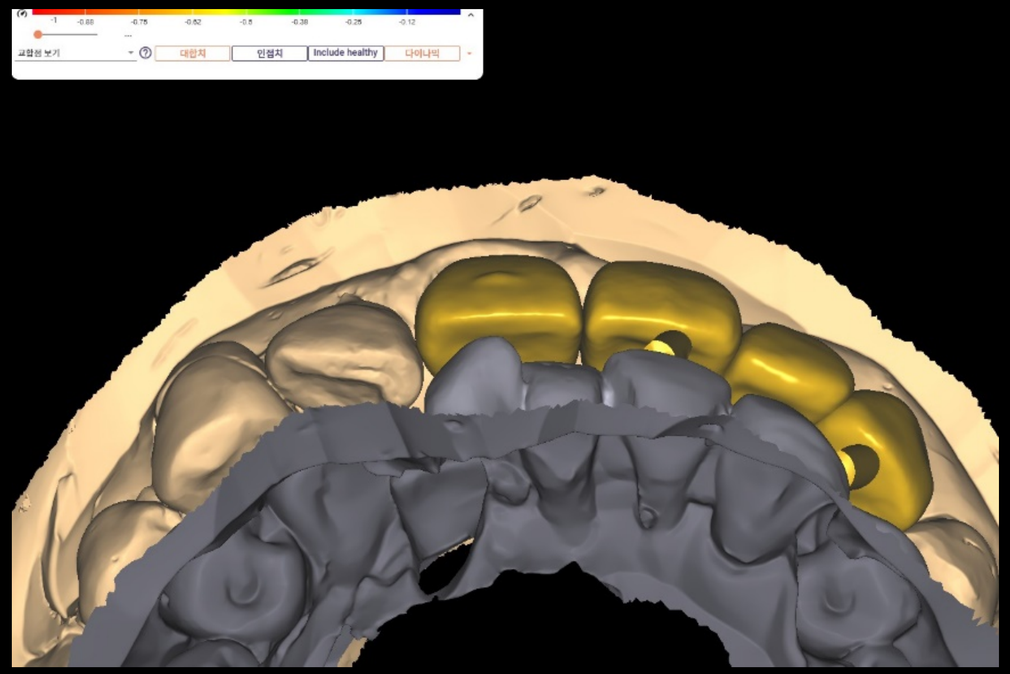




CT – Cad design stitching

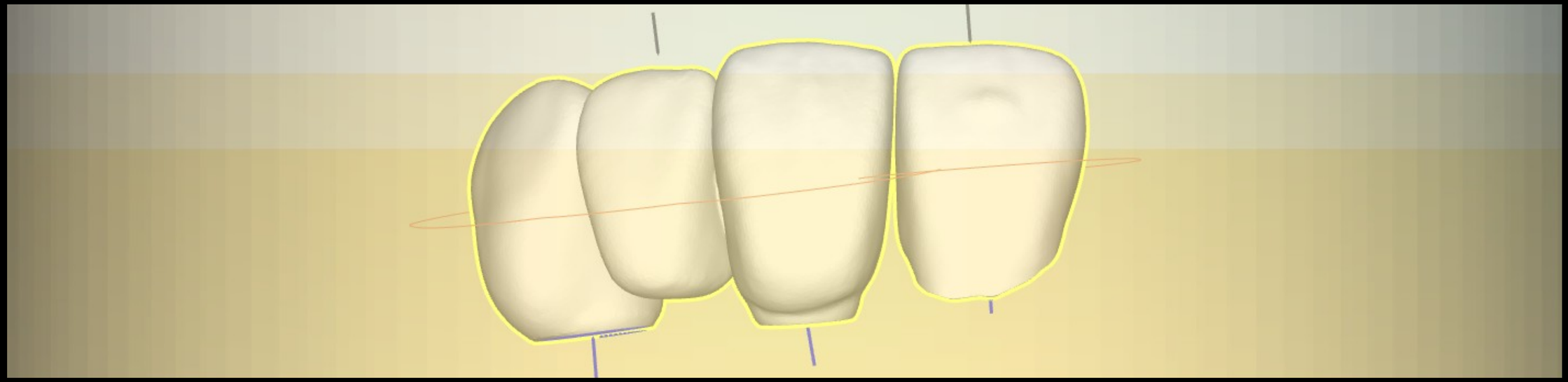


CAD : Mounting with virtual articulator



Shade taking(A3)

Hyper dent



A3 22T 3Layer Block

Milling / Coloring / Sintering / Glazing

Inner – White Opauqe

Final prosthesis (2023-11-02)

bright 3-Layer

49% Transparency
층간 자연스러운 Value변화

No Coloring & Staining

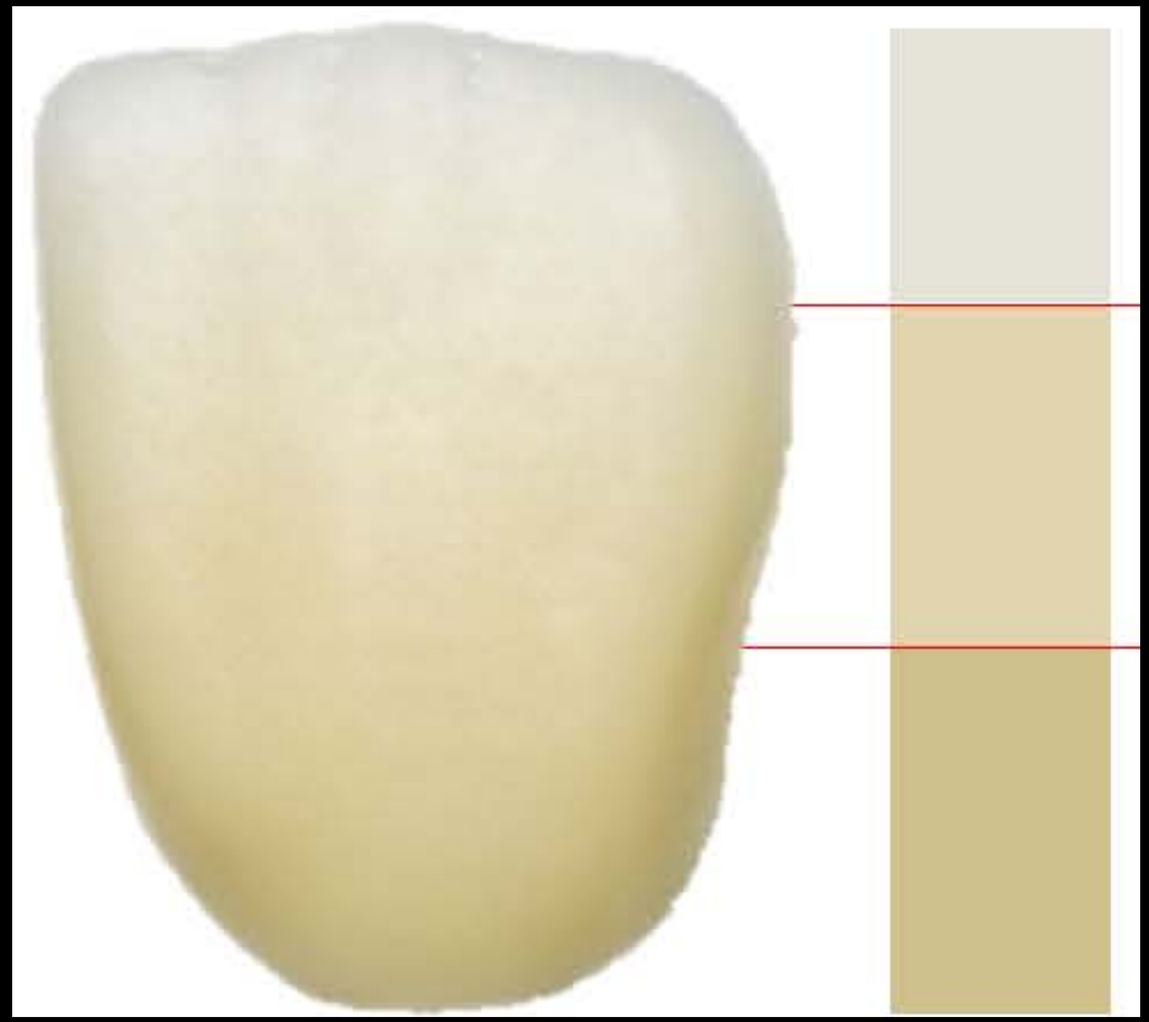
직관적인 색 결정

절단층과 중간층 고정

2 types of Zirconia

3 layer of different value
2 hour fast sintered mono block

3 layer Zr block



5 Y

Translucent 48
Value -0.3

5Y + 4Y

Translucent 47
Value 0

4Y

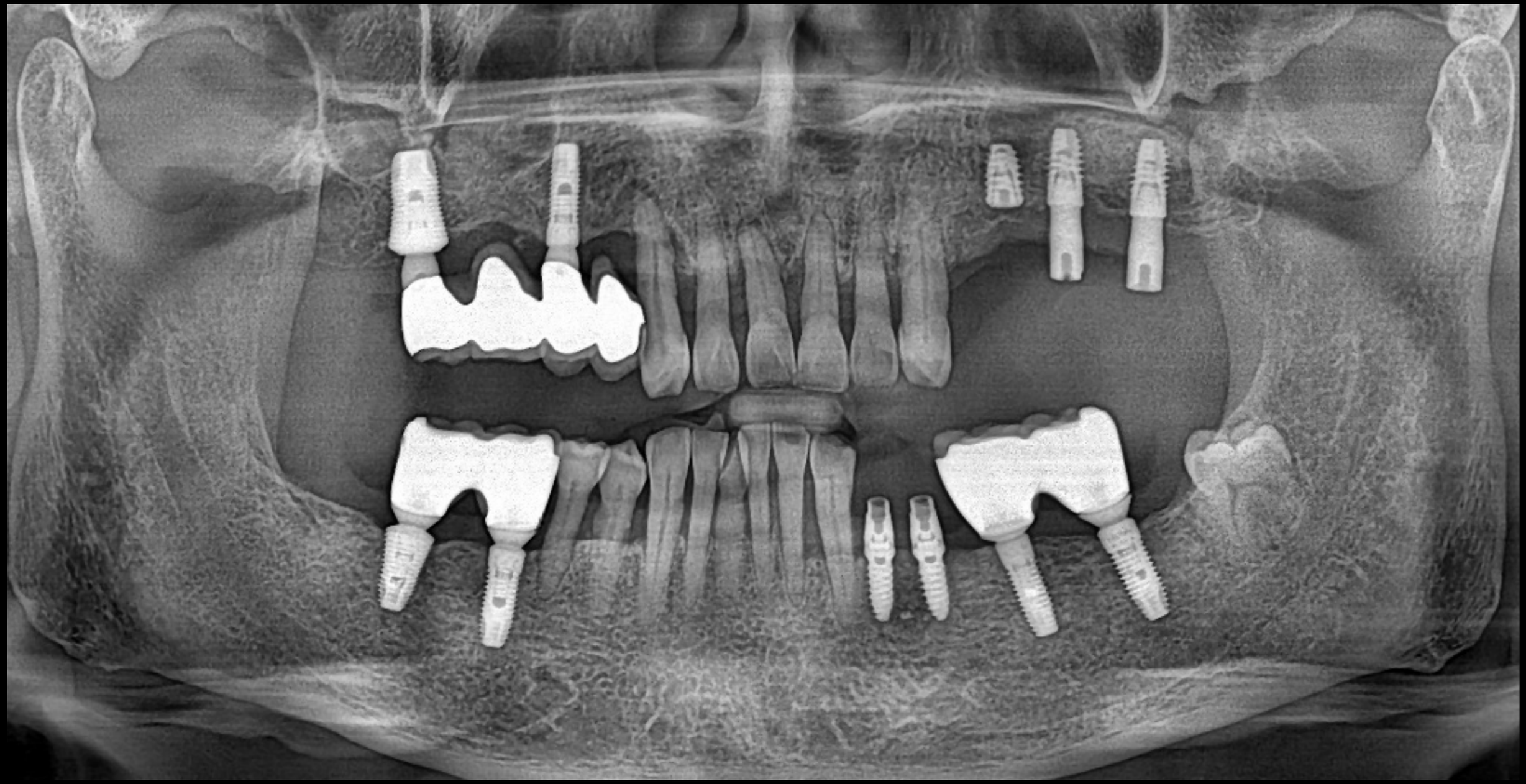
Trandlucent 46
Value +0.3

6) Natural teeth prosthesis _ upper Anterior

Final prosthesis

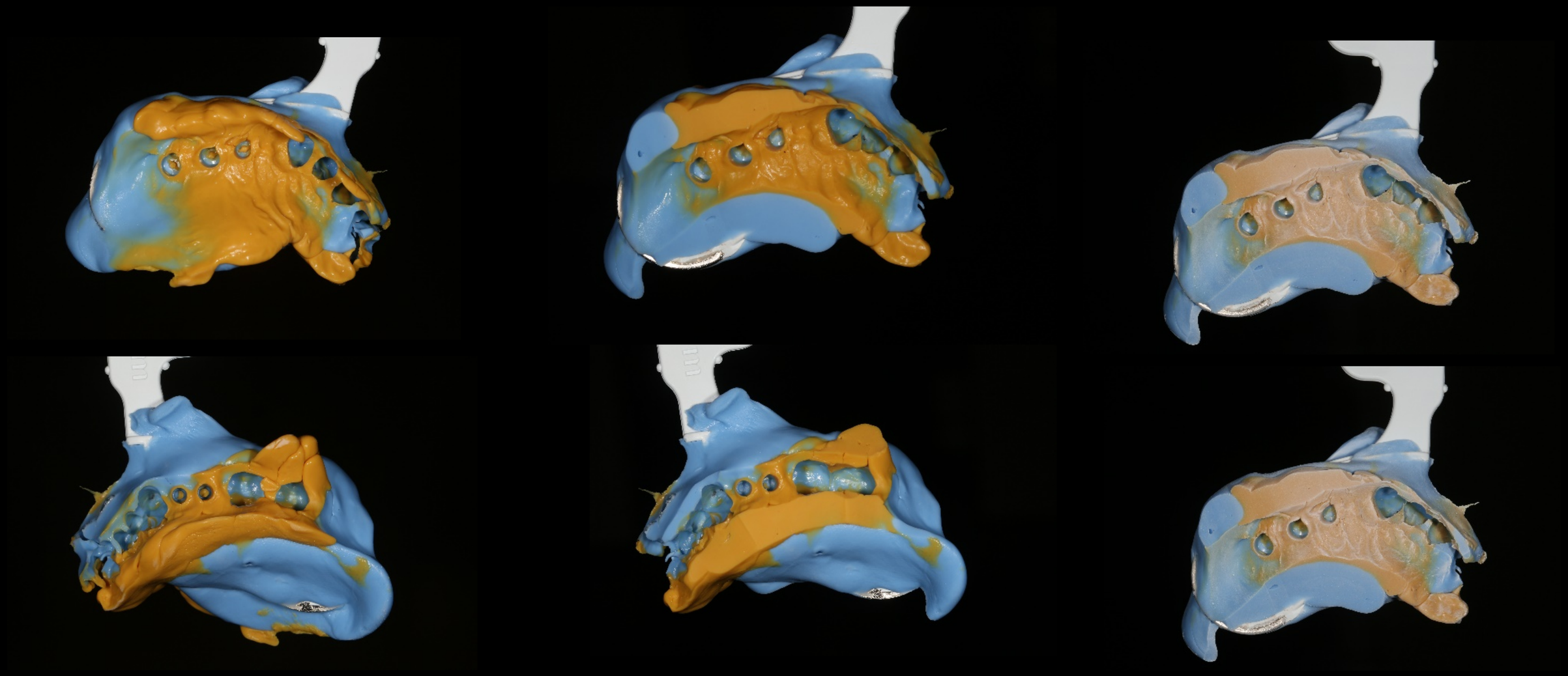
내면 – White opaque

Oral exam



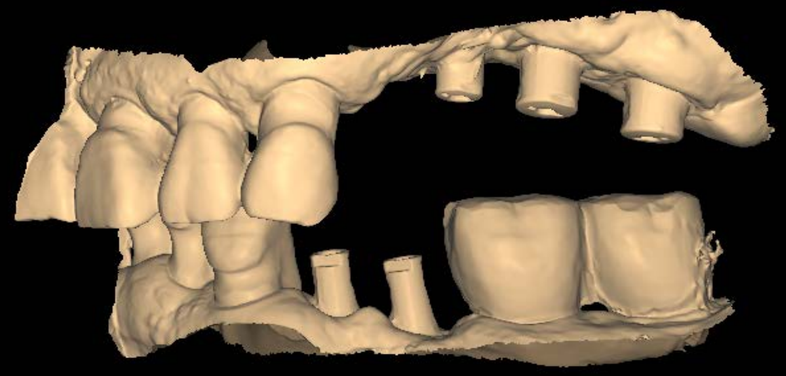
- Bright Impress **Light**
- Bright Impress **Medium**
- Bright Impress **Heavy**
- Bright Impress **Bite**
- Bright Impress **Putty**
- Bright **Bite Tray**

Impression / Trimming / Scan spray

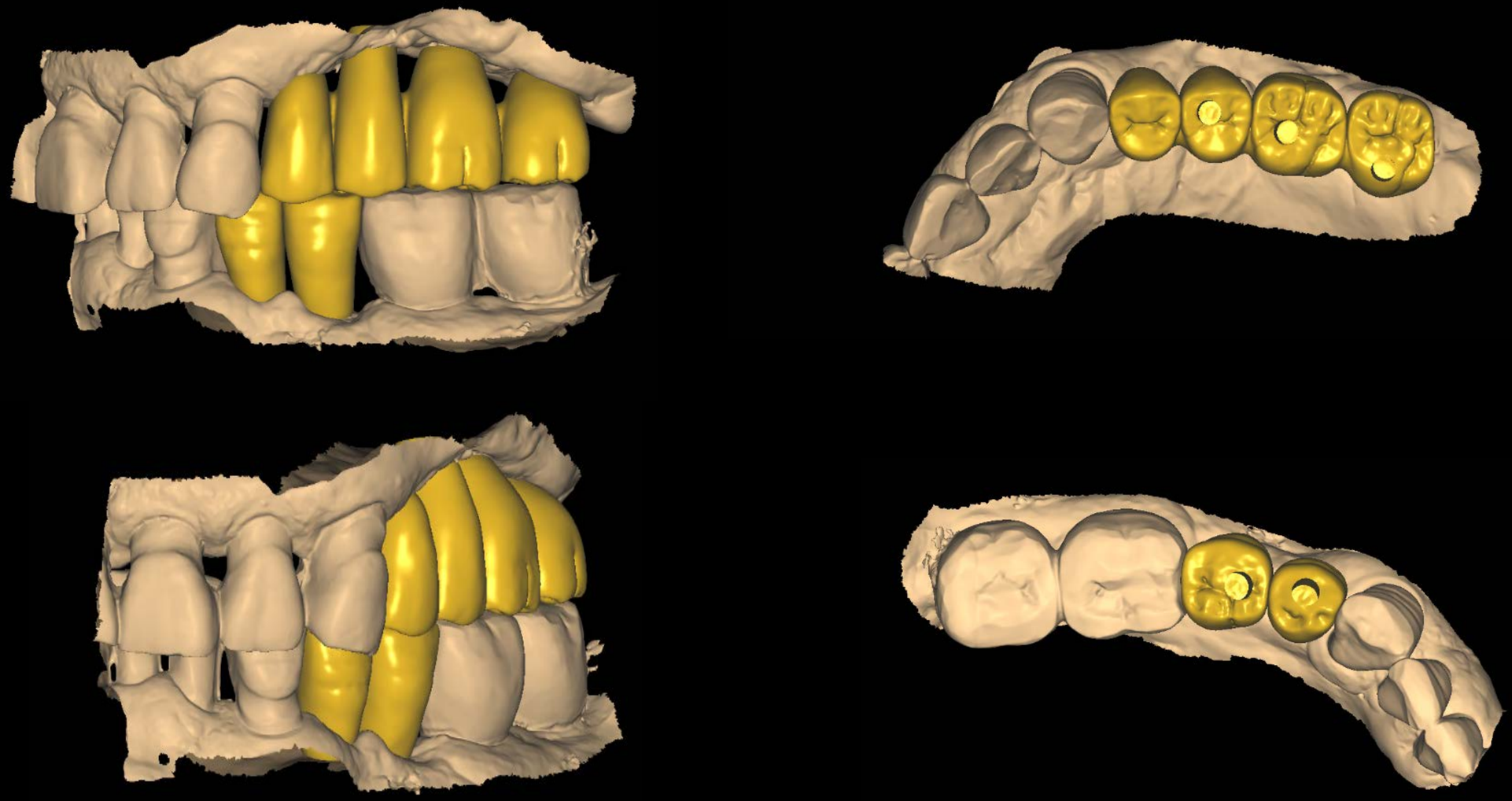


Impression scan / Working Model

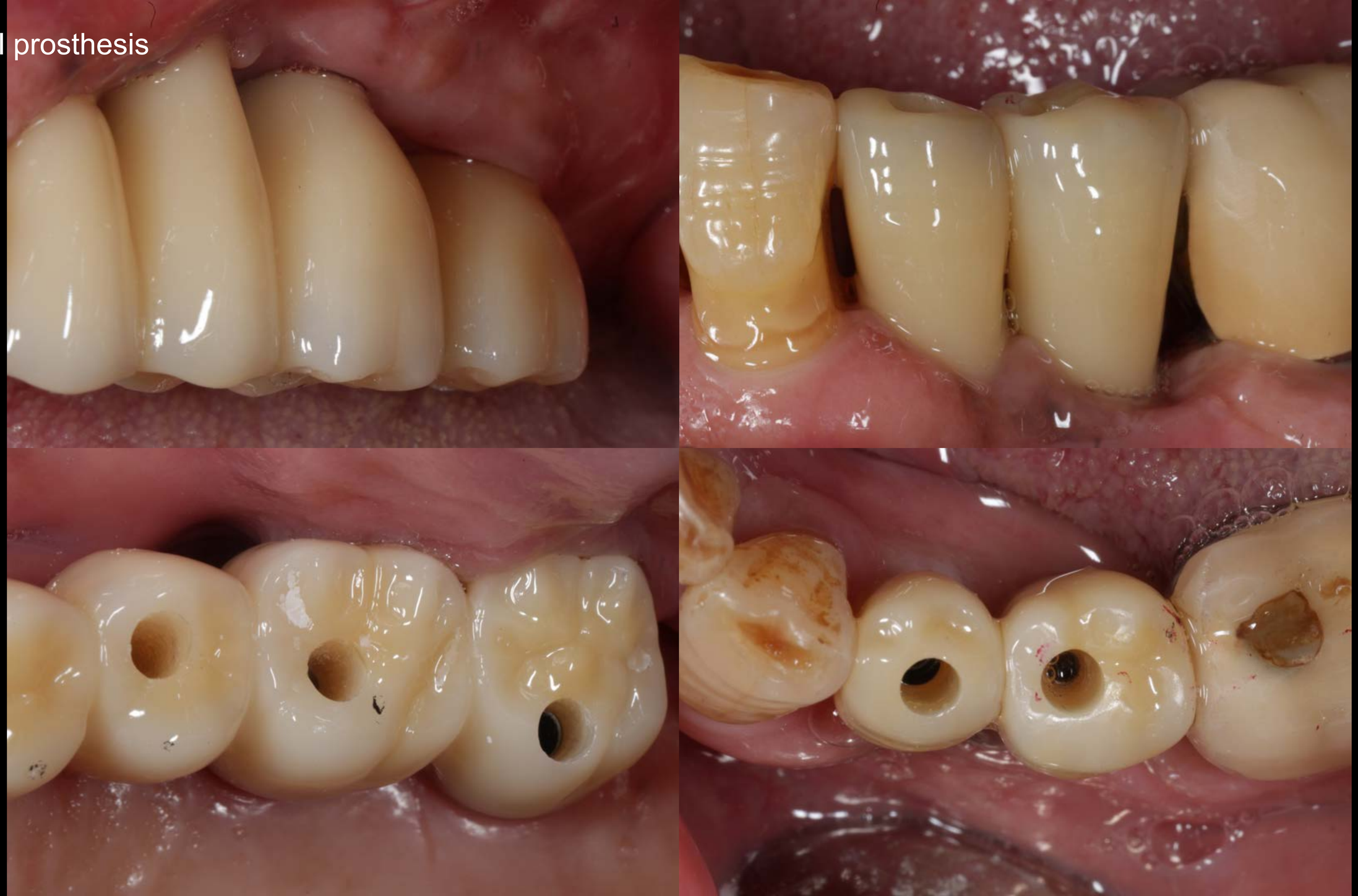
Shining 3D
AutoScan-DS-EX Pro (H)



CAD



Final prosthesis



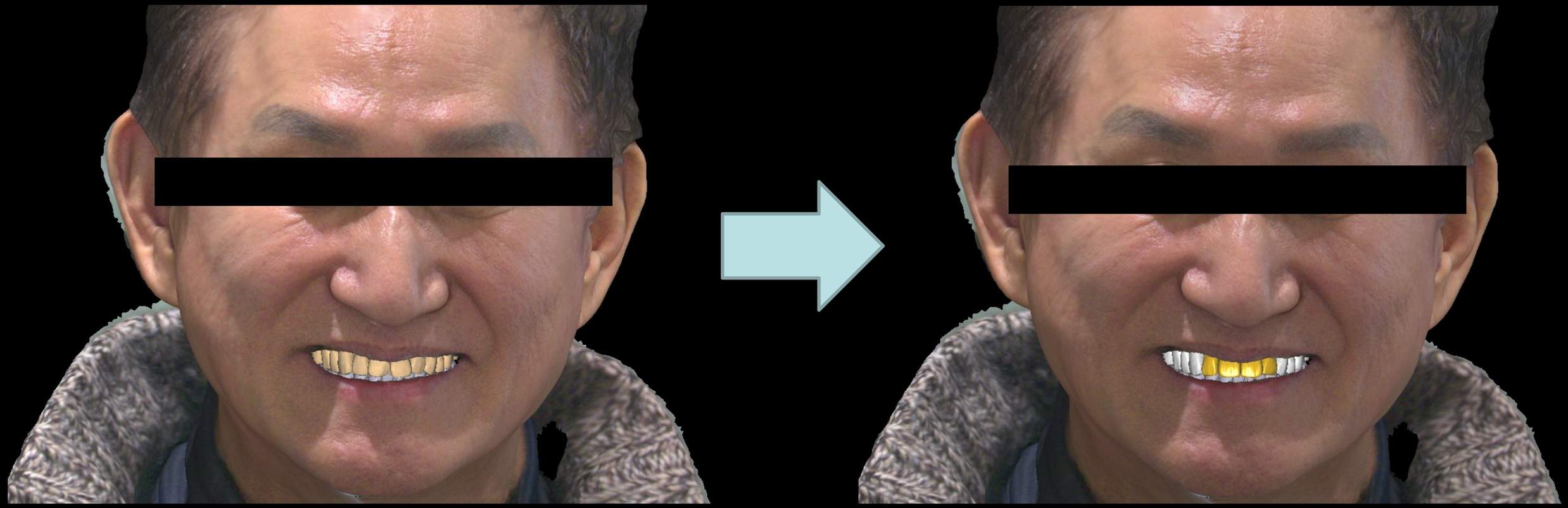
BTS

Putty + light body
Easy and precise

기존의 analogue impression

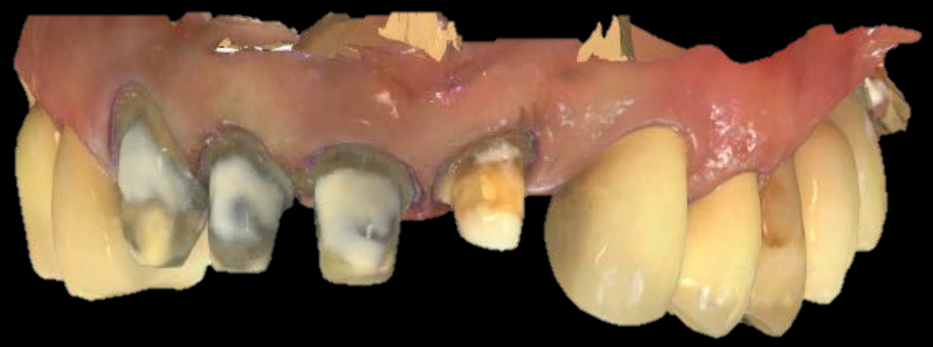
Putty + regular body
Difficult and occlusal error

Facial scanner
IOS
Virtual set up

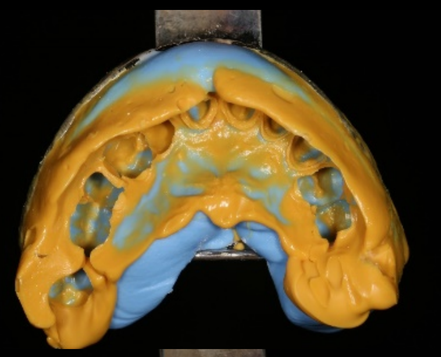


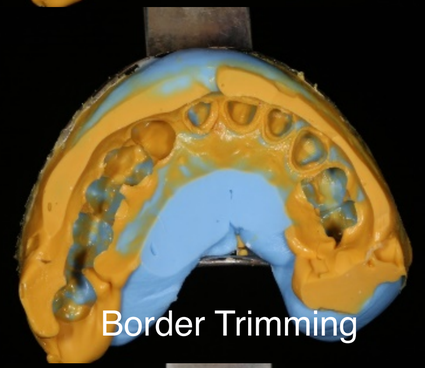
Very good with pts consulting and systemic tx

Intra Oral Scan



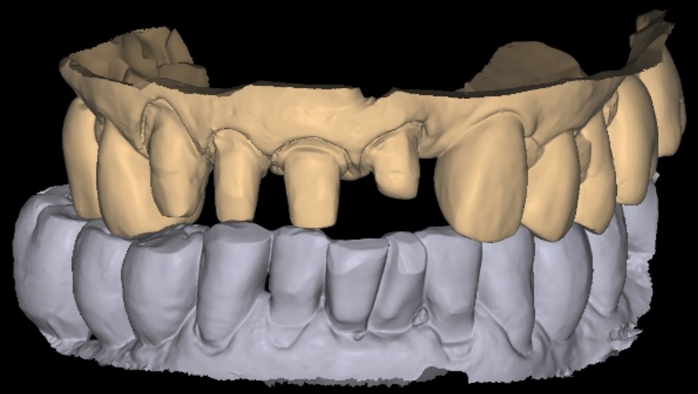
Impression scan for working model

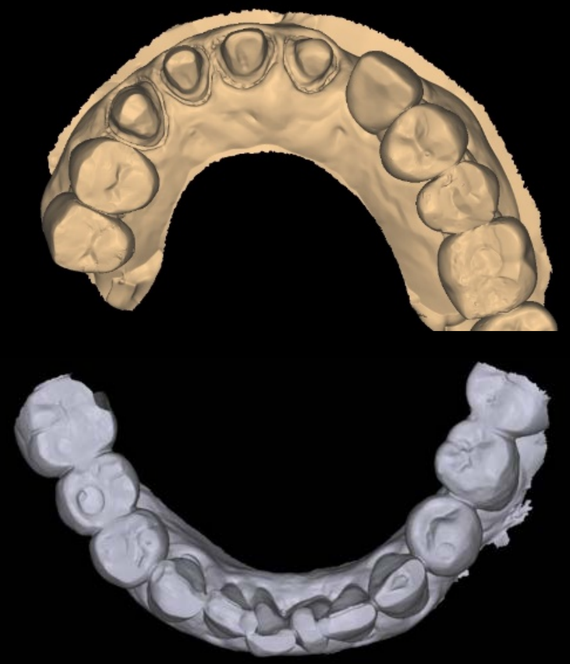




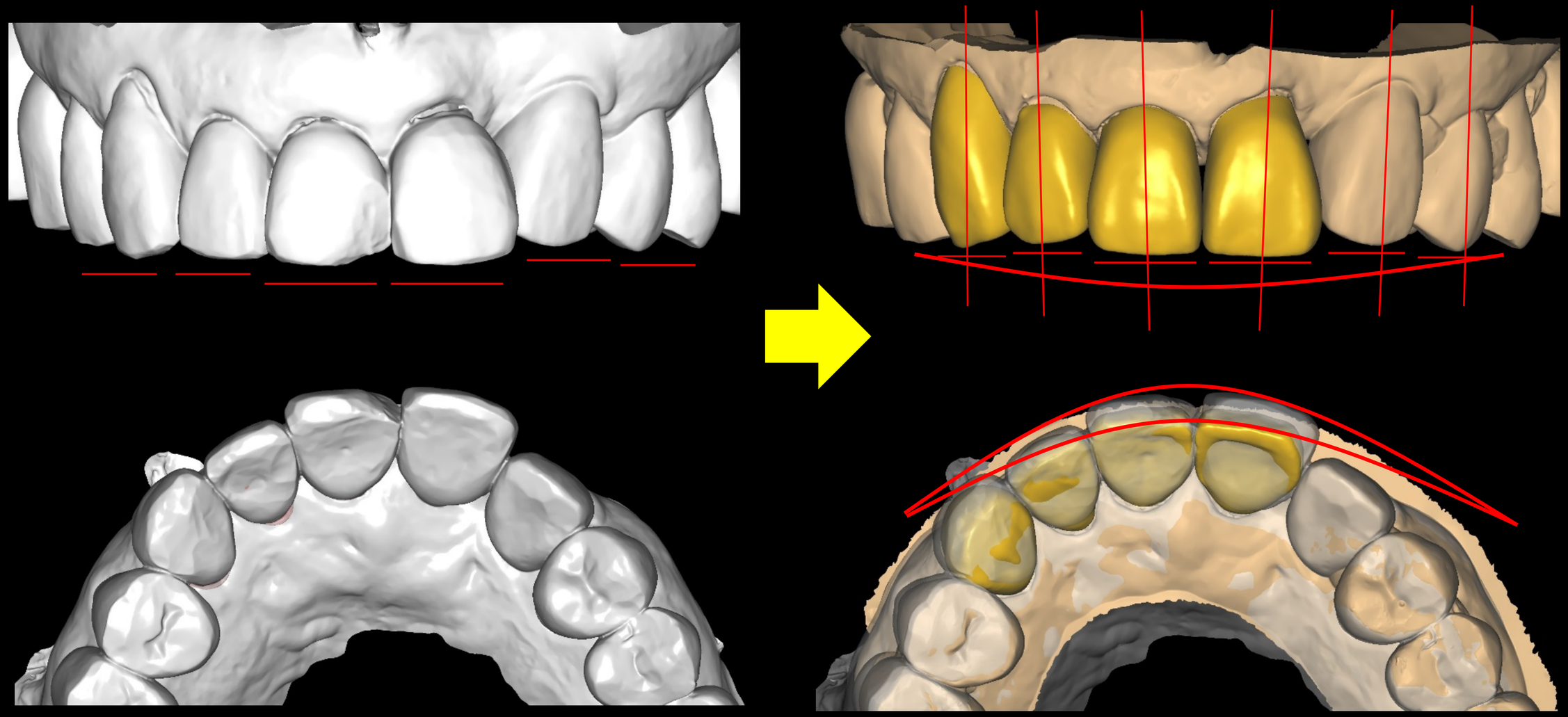
Border Trimming

Scan spray





Prosthesis design



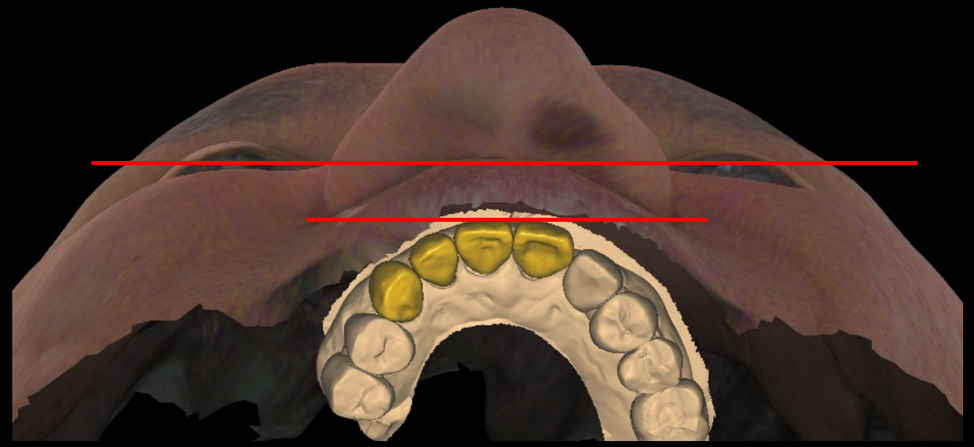
Prosthesis design

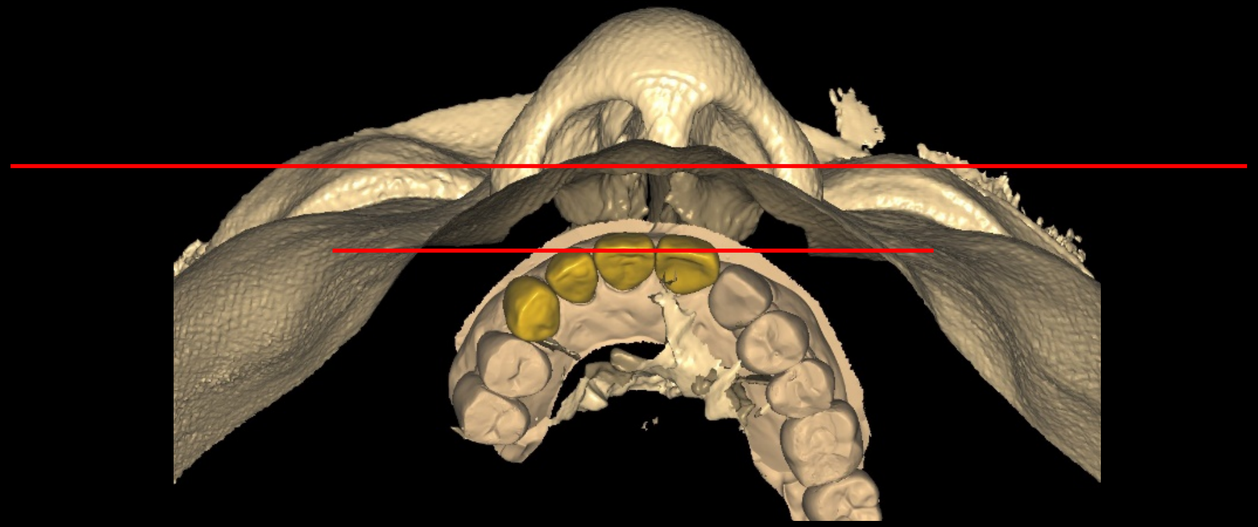
Facial scanner

Good for pts consulting

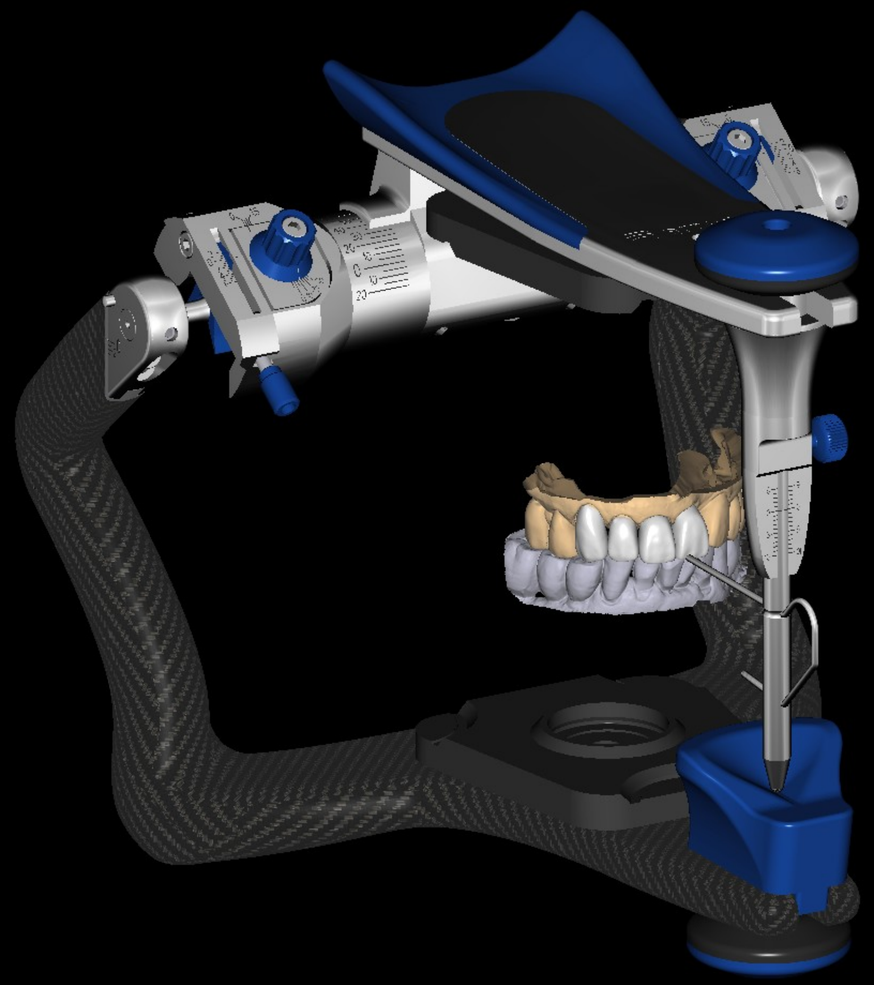
CT STL

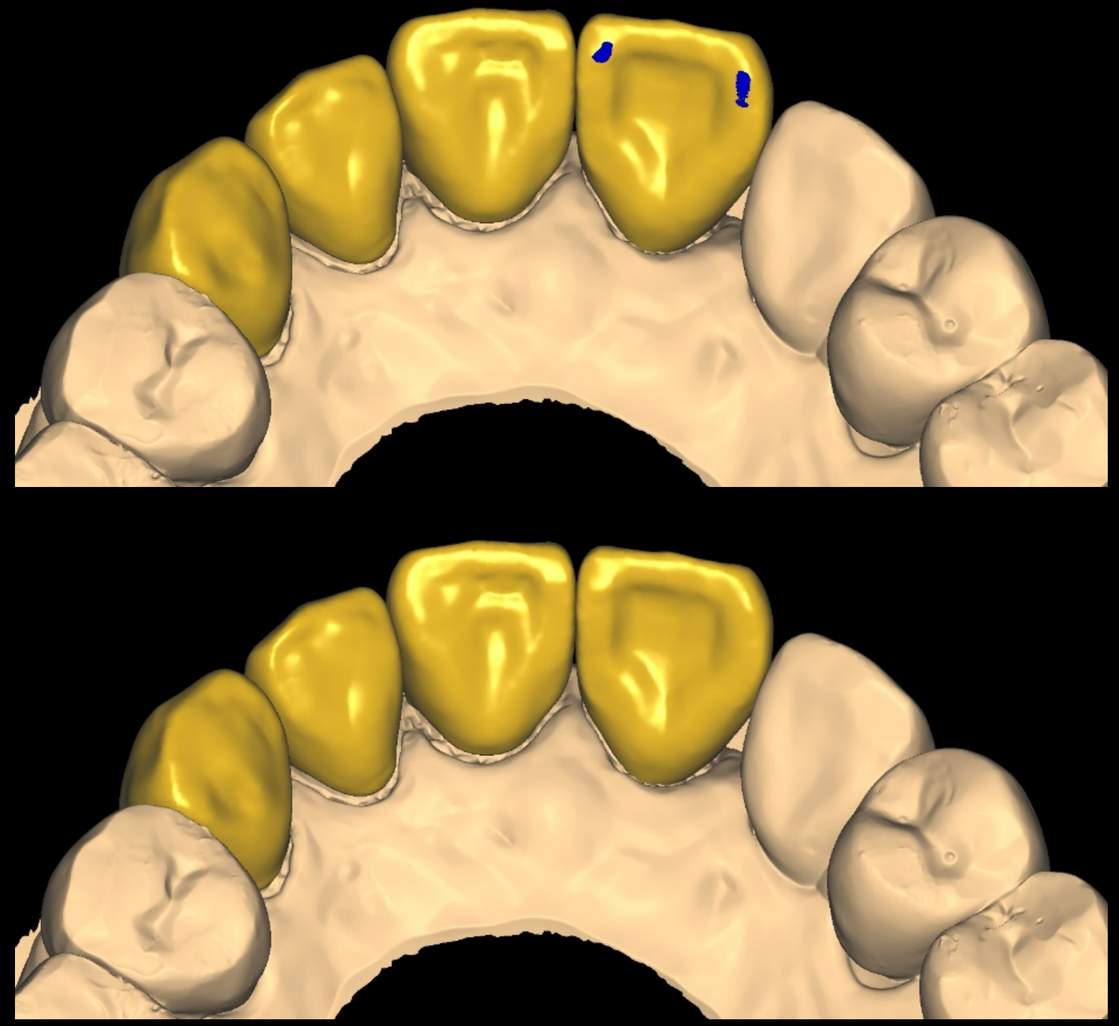
More precise for lab



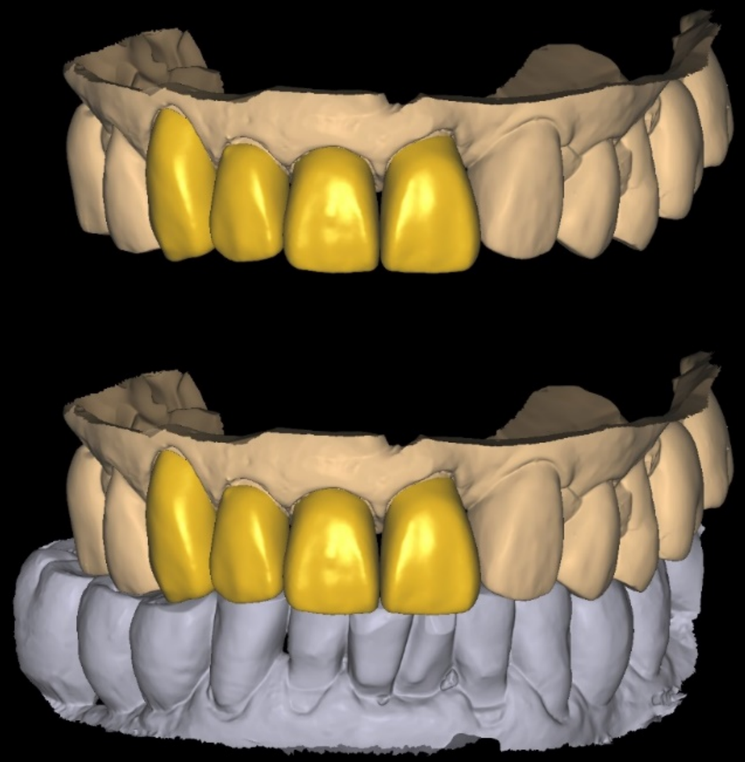


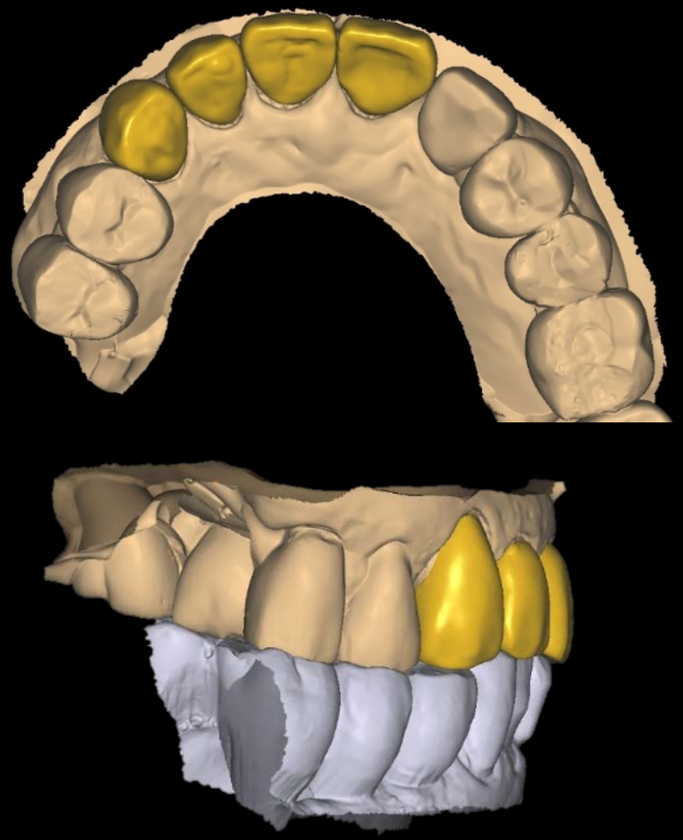
Prosthesis design





Prosthesis design





Shade taking (A3)

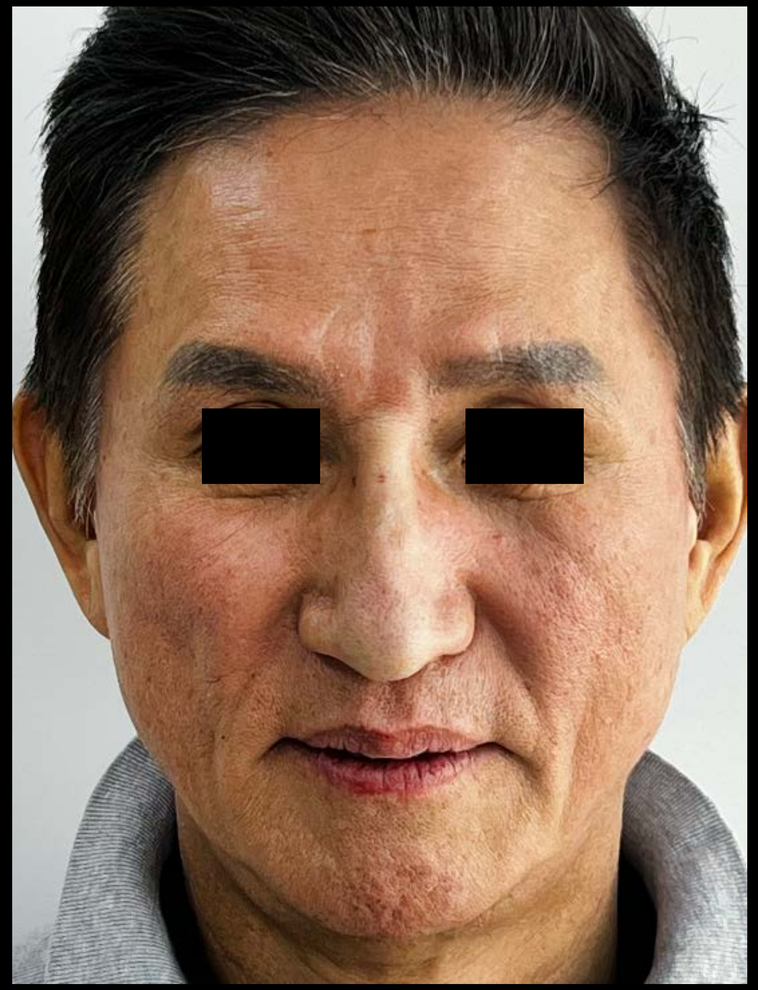
Final prosthesis (2024-02-24)

Dentium

Final prosthesis (2024-02-24)

Before

After

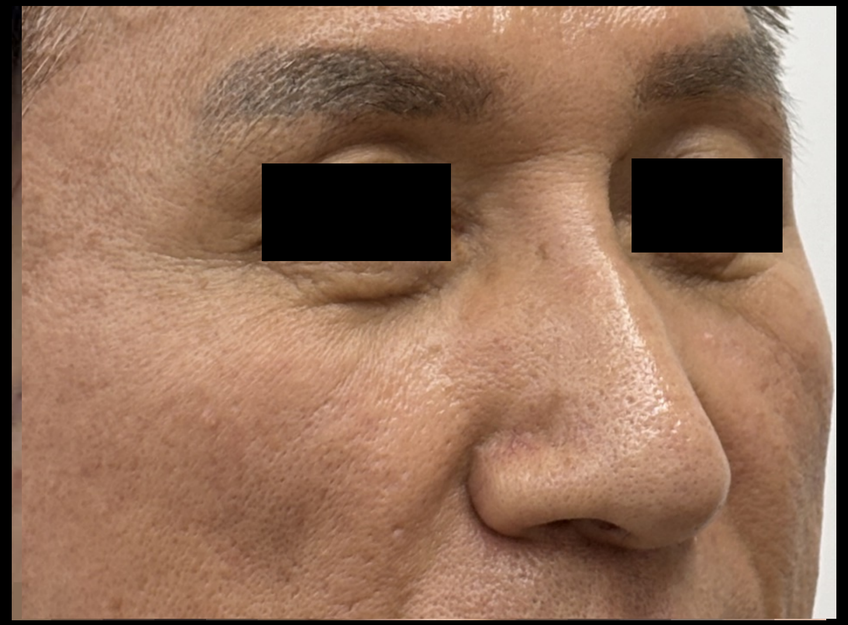


1 Month Later

Nose

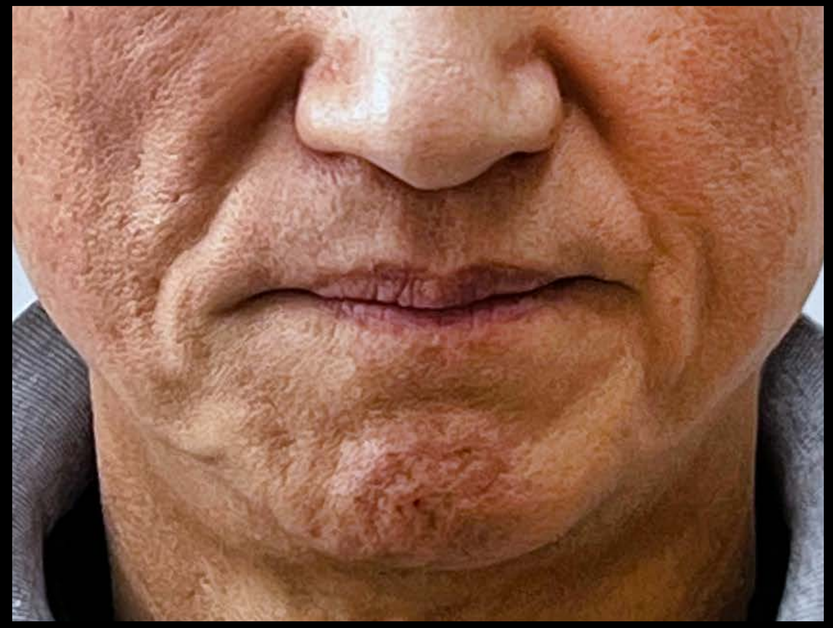
Before

After



1 Month Later

Nasolabial folds, Chin



Before

After

1 Month Later

A Change in appearance with aged person

1 Reduced soft tissue volume - collagen
2 A slight decrease in bone tissue
3 Reduced elasticity of the skin

-> Appears in the form of sagging, facial depression, etc

The concept of fillers for elderly patients

1 Injection area

1) Nasolabial fold
2) Marionette line

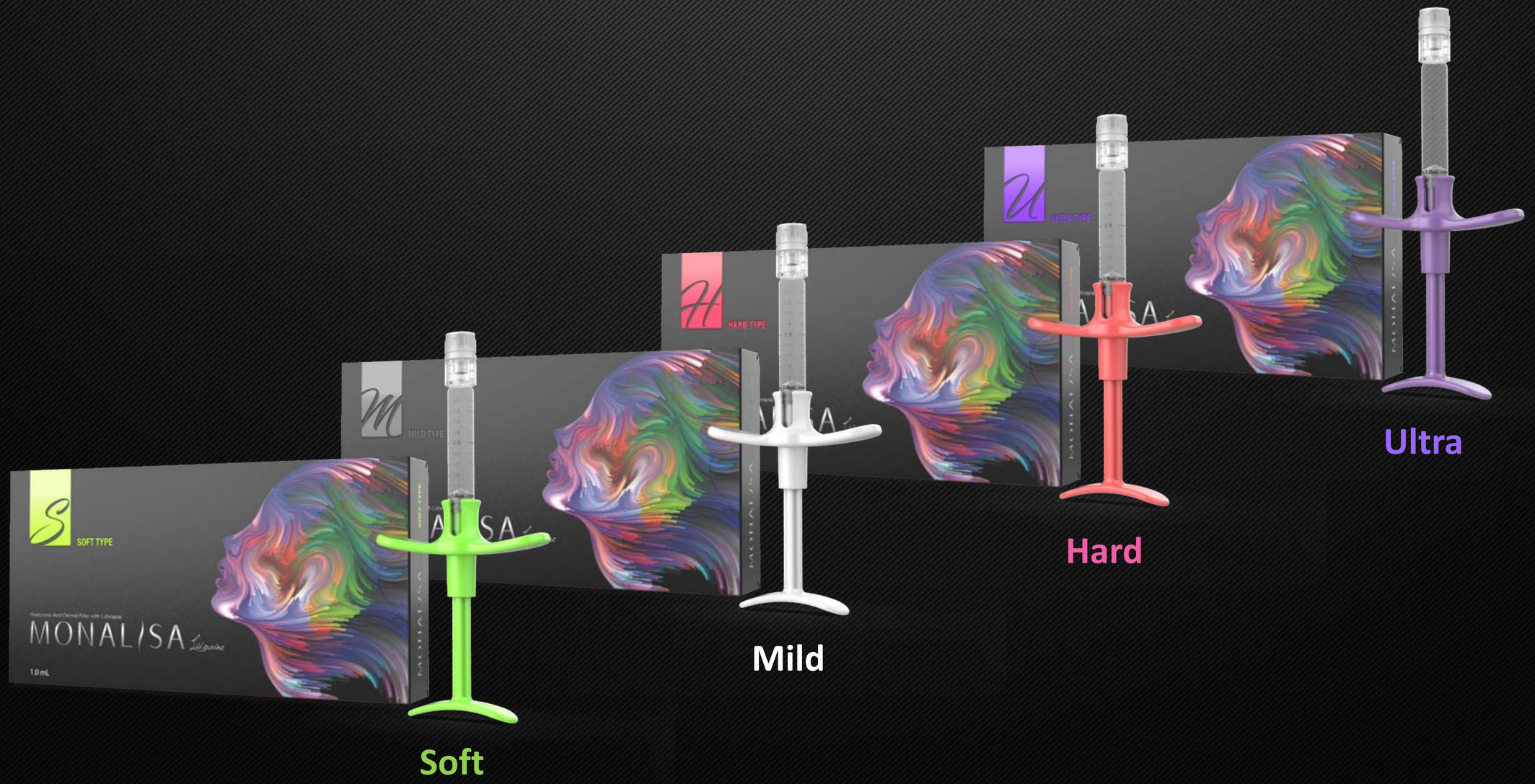
2 Increase the volume

1) Mainly injection needle instead of cannula
2) Mainly Bone contact
3) Inject only fine wrinkles of the skin directly under the skin
4) Increased effectiveness when used with Botox

MONALISA Lidocaine

Hyaluronic Acid Dermal Filler with Lidocaine

MONALISA



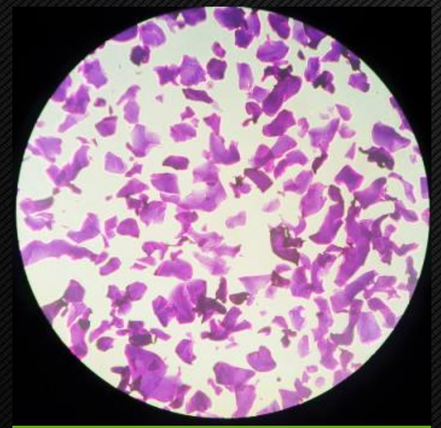
Physical Properties

Hyaluronic Acid Dermal Filler with Lidocaine

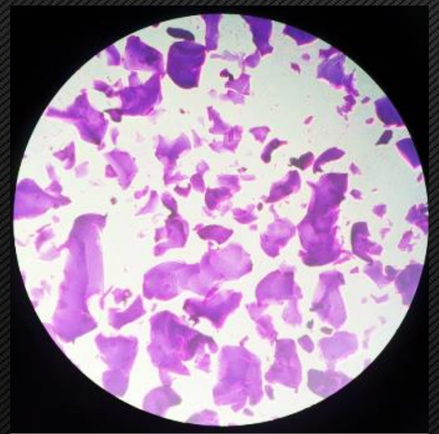
MONALISA

Particle size & shape

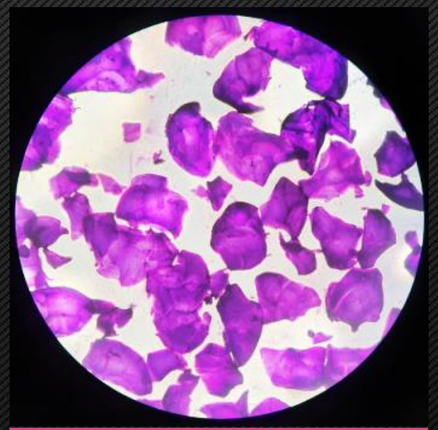
x 40



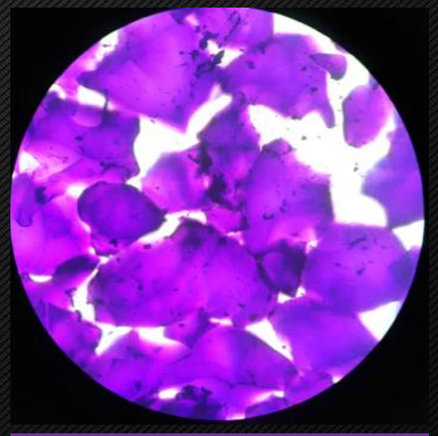
Soft



Mild / Smile



Hard

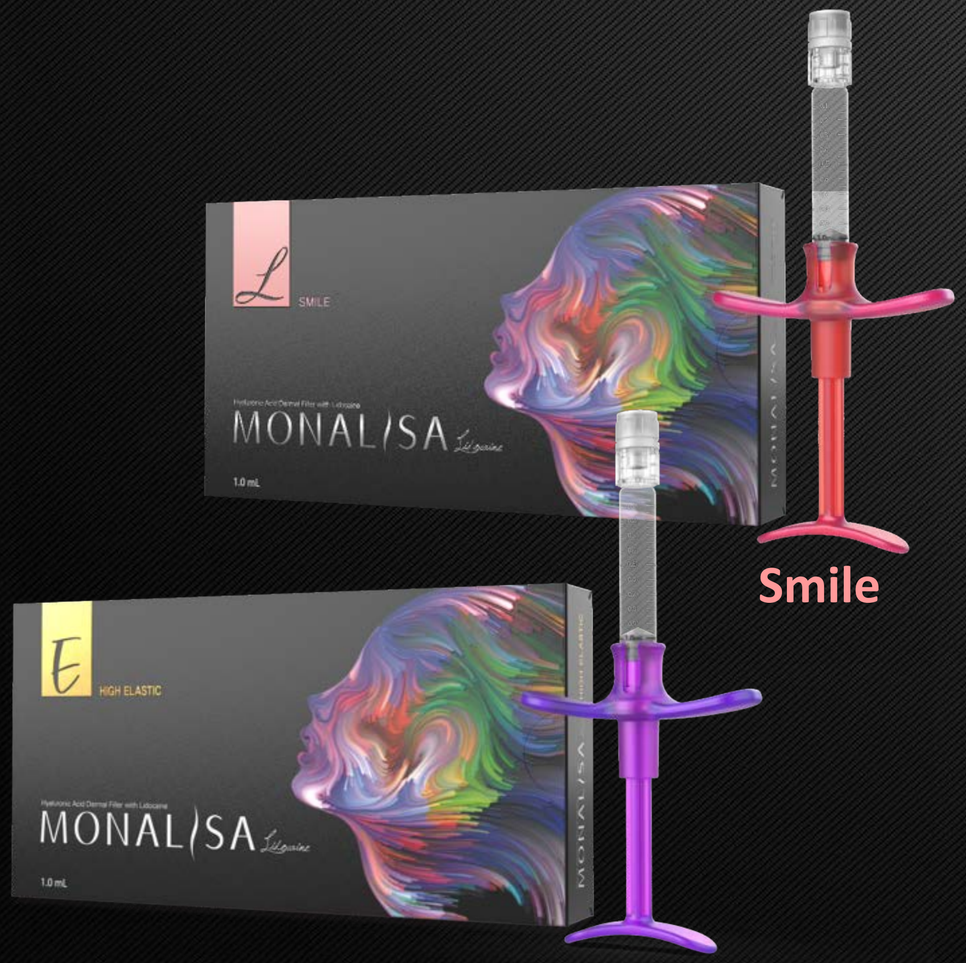


Ultra / High Elastic

MONALISA Lidocaine

Hyaluronic Acid Dermal Filler with Lidocaine

MONALISA

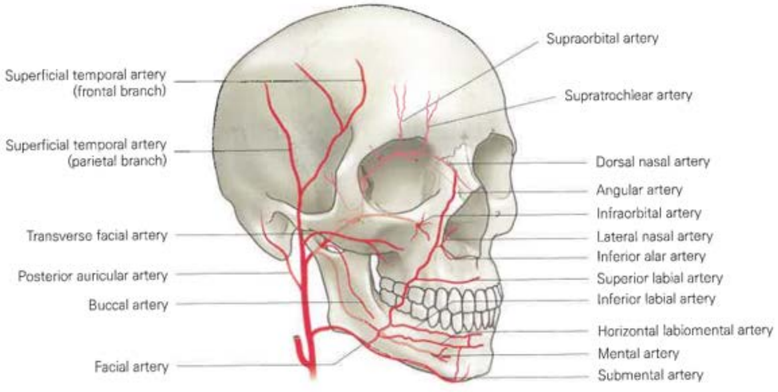


Smile

High Elastic

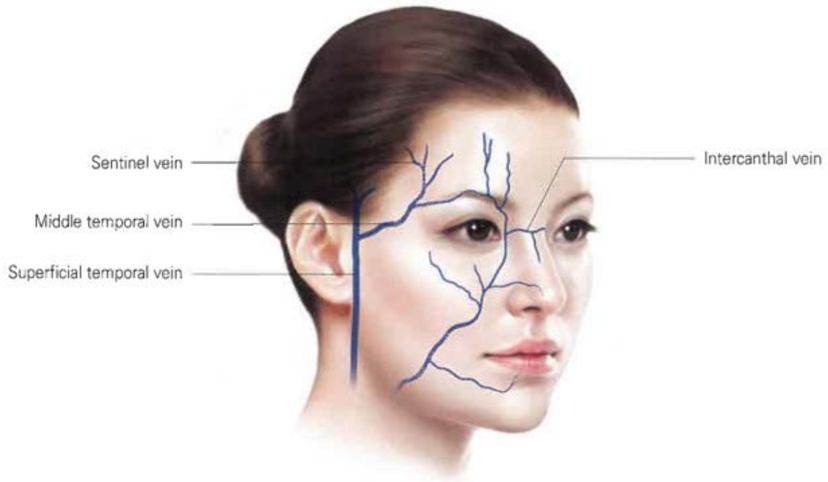
Product	SMILE	HIGH ELASTIC
Form	No impurities, transparent and colorless gel	
Components	Cross-linked hyaluronic acid, 0.3% Lidocaine	
HA Concentration	24 mg/mL	
Particle Size	400 µm	900 µm
Volume	1.0 mL	
Application	Superficial dermis / Middle layer of subcutis	Deep to very deep layer of subcutis
Needle size	27 GTW*	25 GTW*
Storage Temperature	2 ~ 25 °C	

** TW : Thin wall*

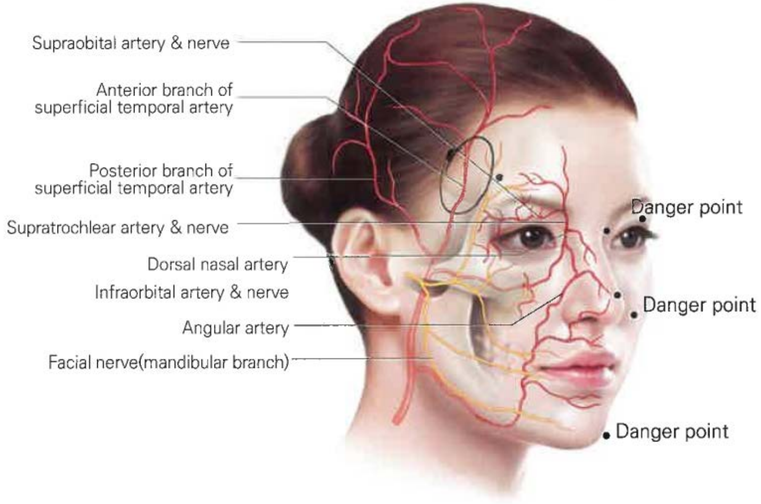


▲ Arterial branches of face

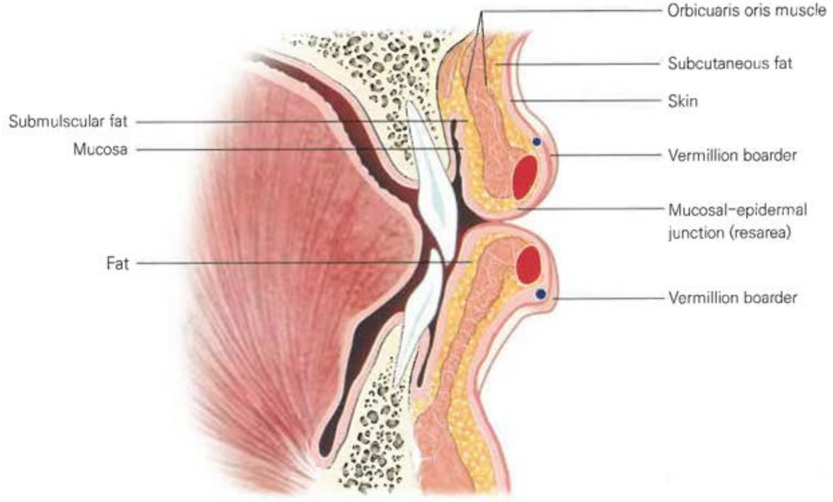
▲ Arteries supplying facial regions



▲ Veins of face



▲ The blood supply of lateral forehead area



▲ Sagittal section of the lip

The Side effects of fillers

1 Blindness

2 Necrosis of the tip of the nose

3 Edema

1)early edema

2)delayed edema

Safe filler

Natural image filler injection

Mutilayer
- bone contact
- just below the dermis

Hyaluronic Acid Dermal Filler with Lidocaine

MONALISA

25G Needle

25G Needle / 23G Cannula

Application site

Bone contact touch (Deep fatty layer)

- Long-lasting
- Deep wrinkle improvement

Superficial skin (Superficial fatty layer)

- maintain a natural and smooth appearance
- low invasiveness

Clinical case : Nasolabial folds & Marionette Line & Lip

Before & After

Before & After

Bright MTA Sealer Plus

Root Canal Sealing Material

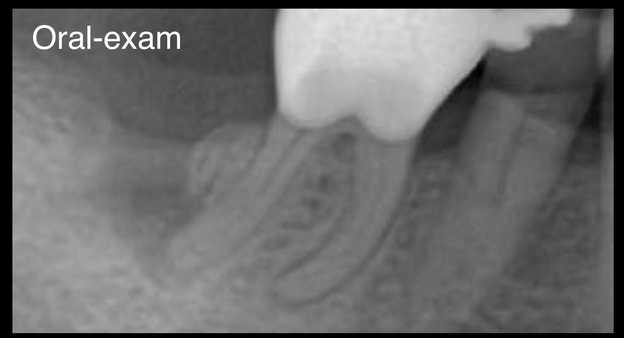
Excellent sealing and regeneration

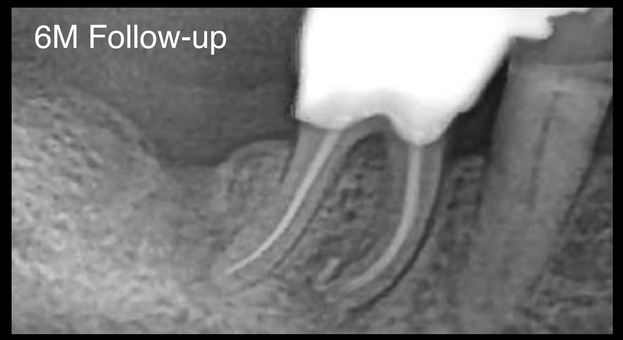
Ultra Antibacterial Effect

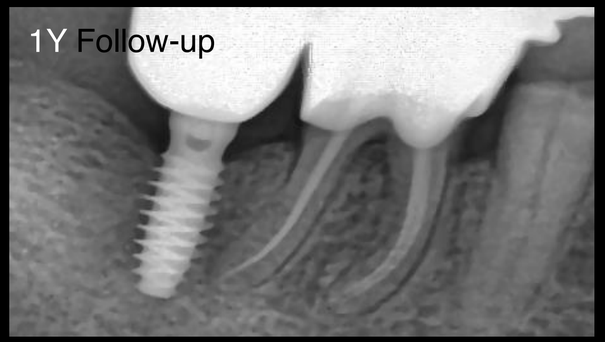
Calcium Silicate → Mineralization

High Flowability → Convenience Handling

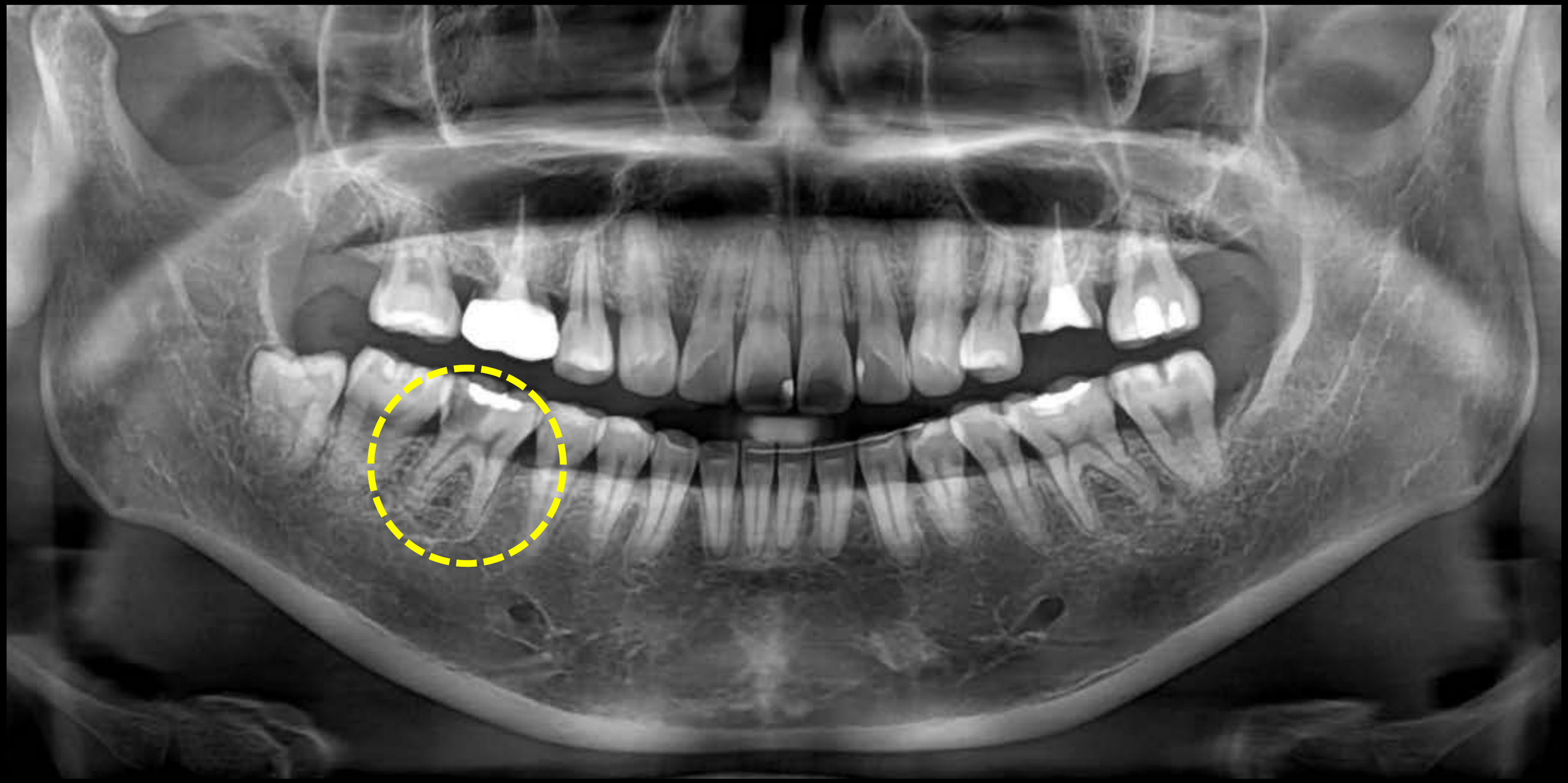
Excellent Radiopaque







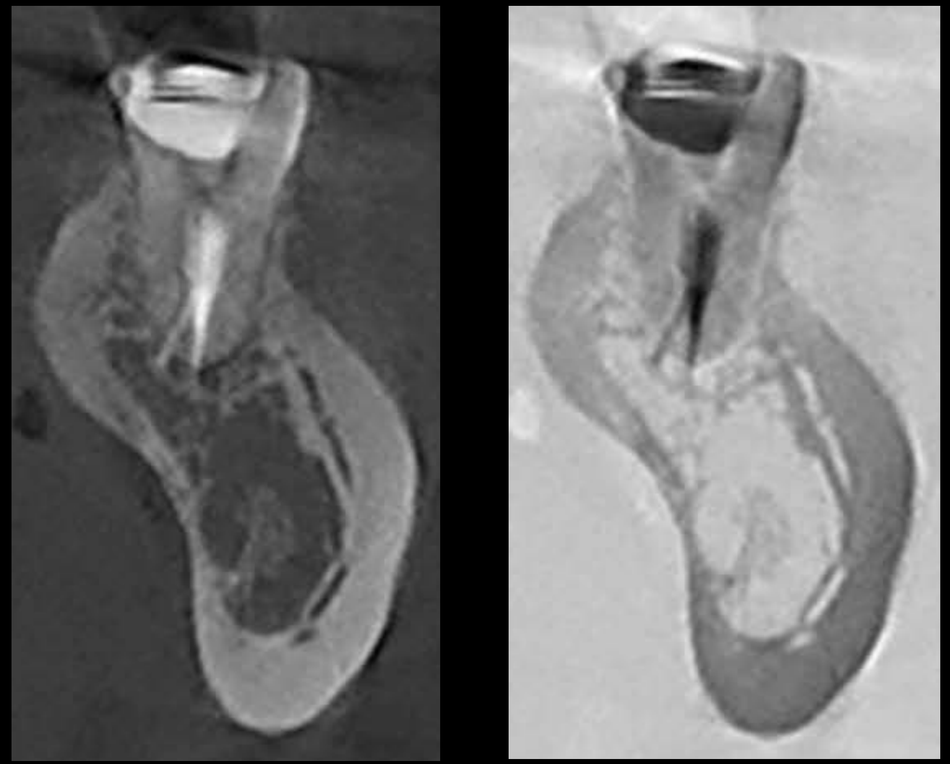
Oral exam (2023-11-18)



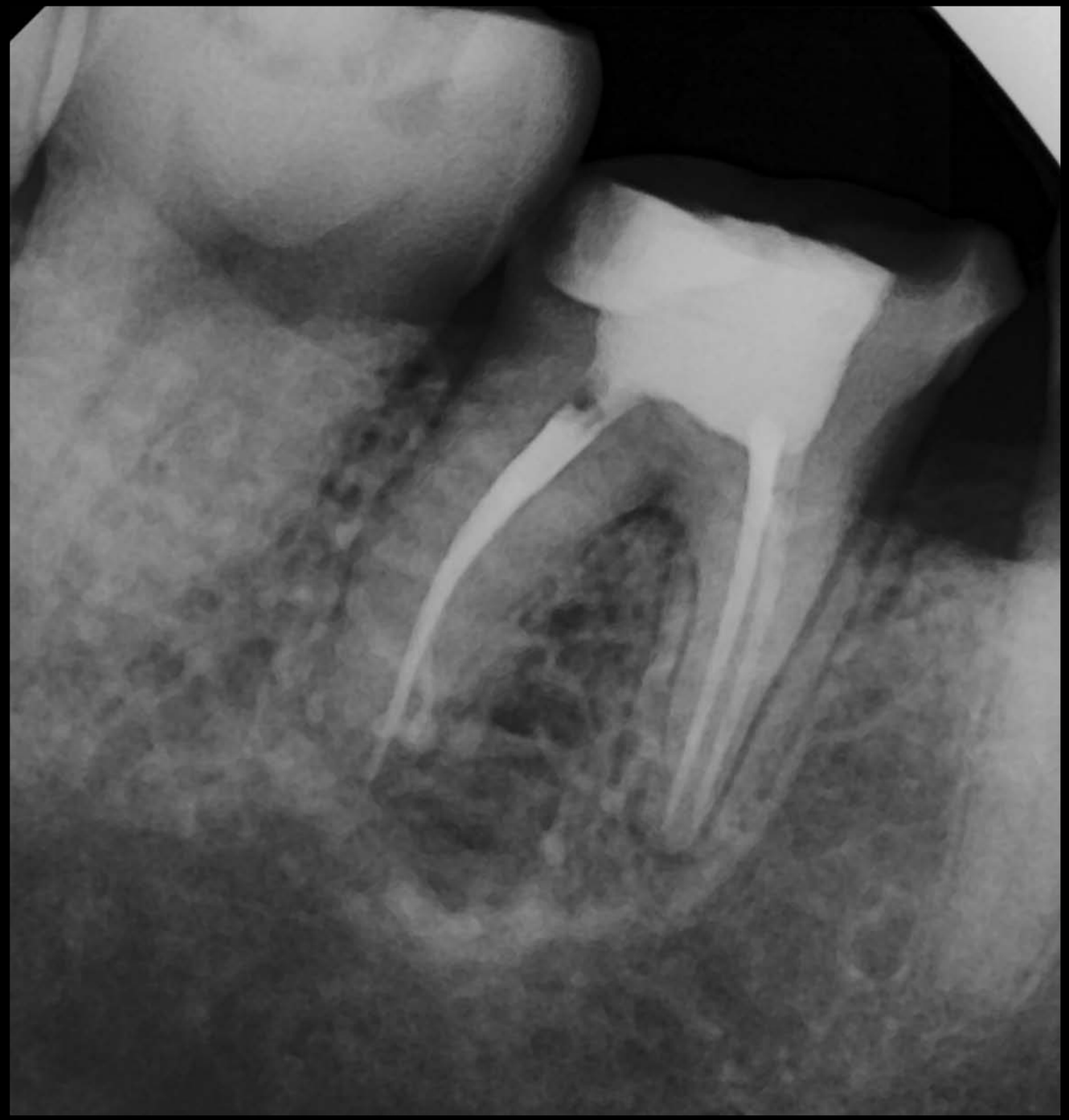
Post-op CT (2024-02-07)

< Mesial canal >

< Distal canal >



Follow up : 7 week (2024-03-27)



Main ingredient of MTA

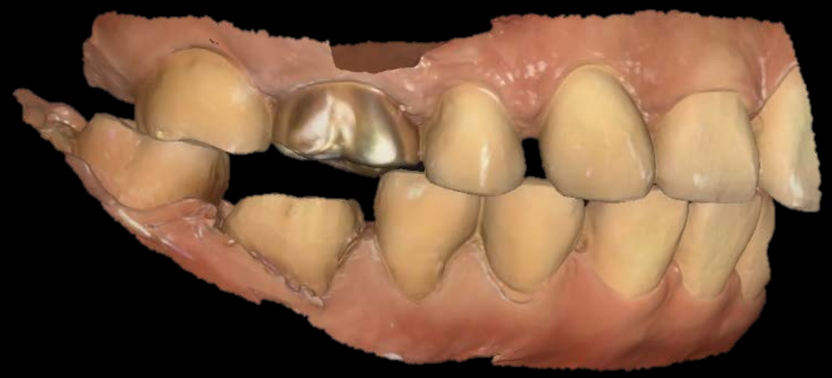
CaO SiO2

$2(3CaOSiO_2) + 6H_2O = 3CaO2SiO_23H_2O + 3Ca(OH)_2$

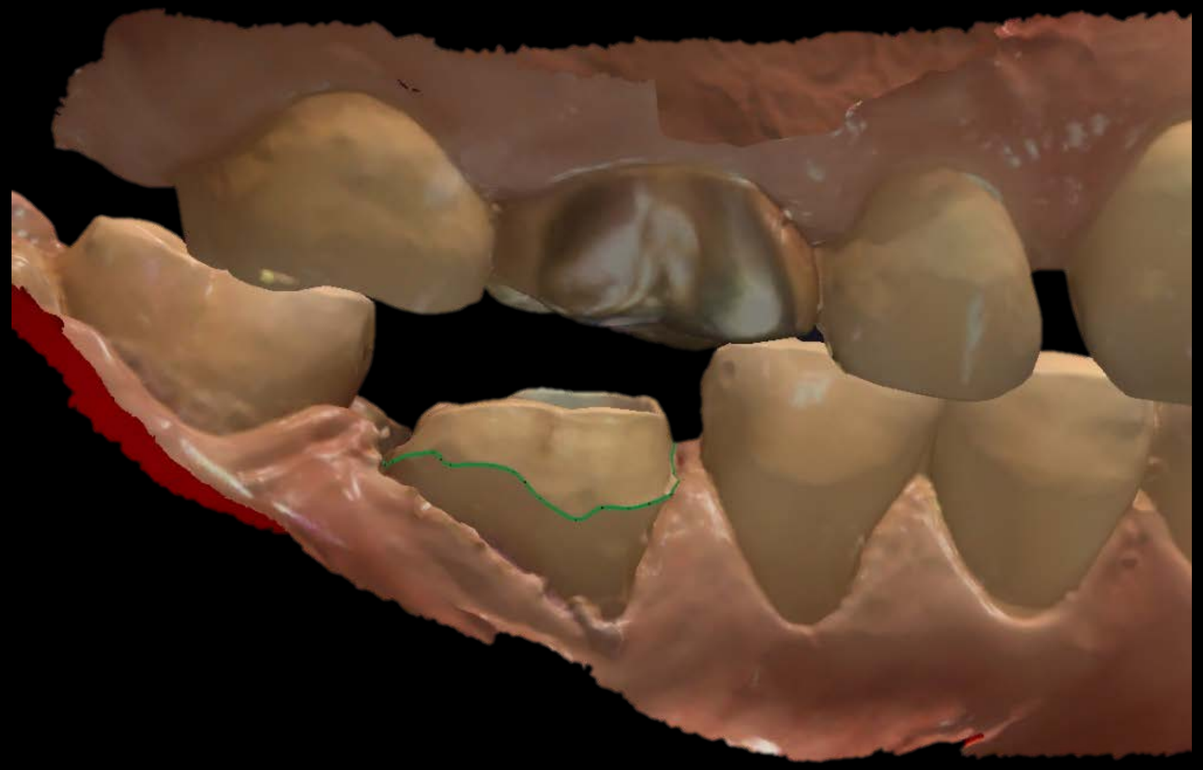
It rises to pH 12 and form Apatite -> Mineralization

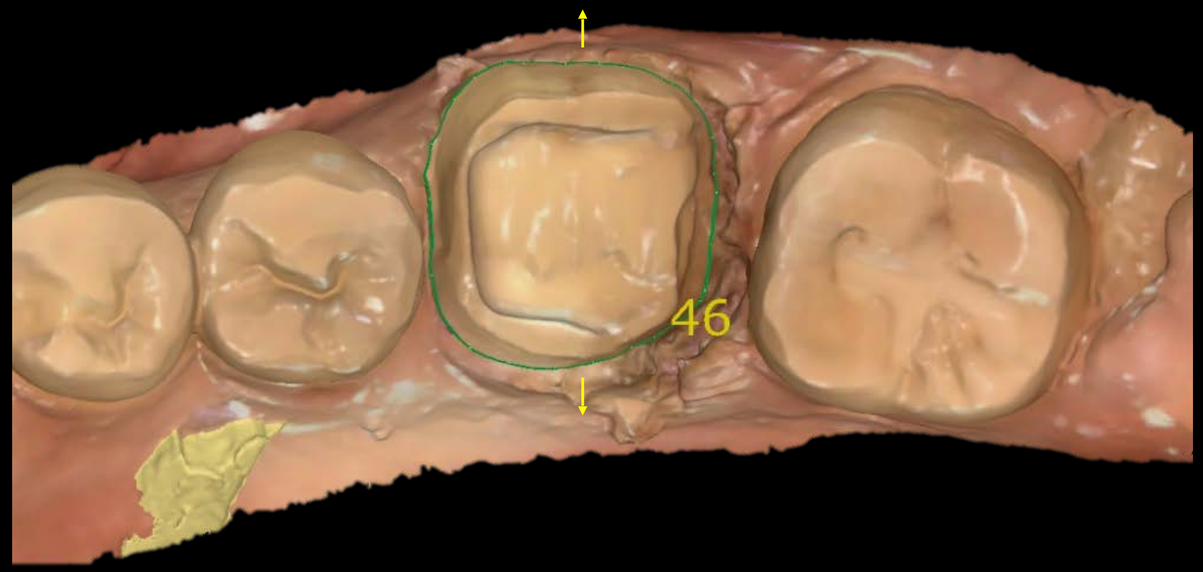
- #46
- Natural Tooth
- Shade A3.5
- Shade Block

Working model

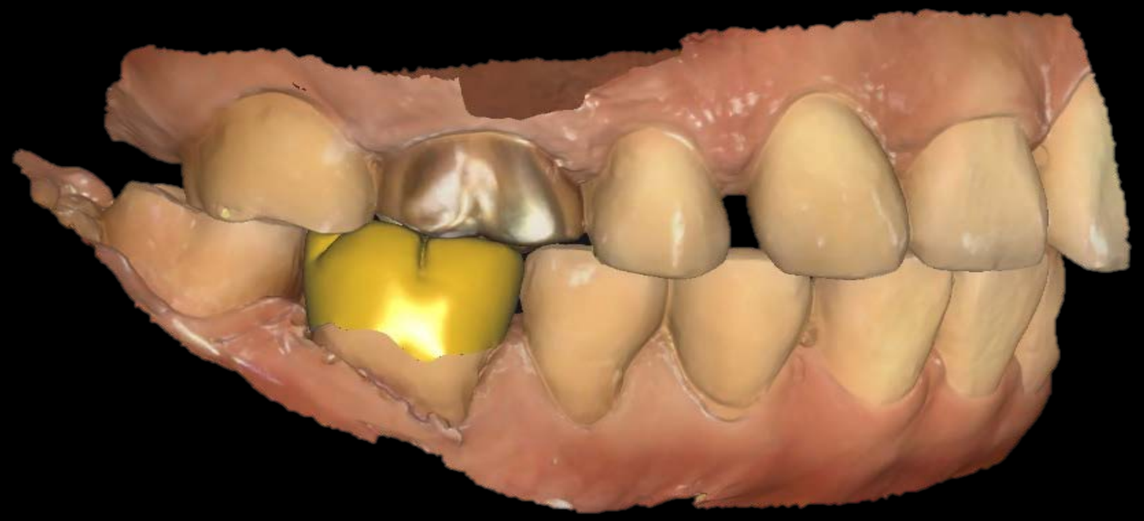


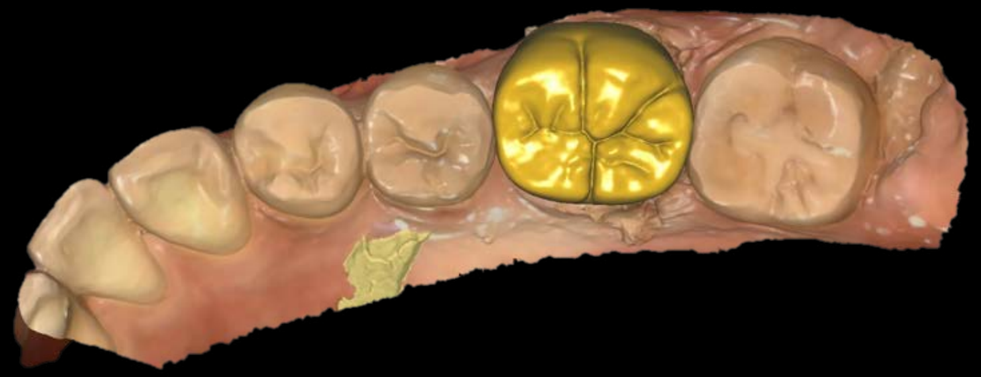
Working Model

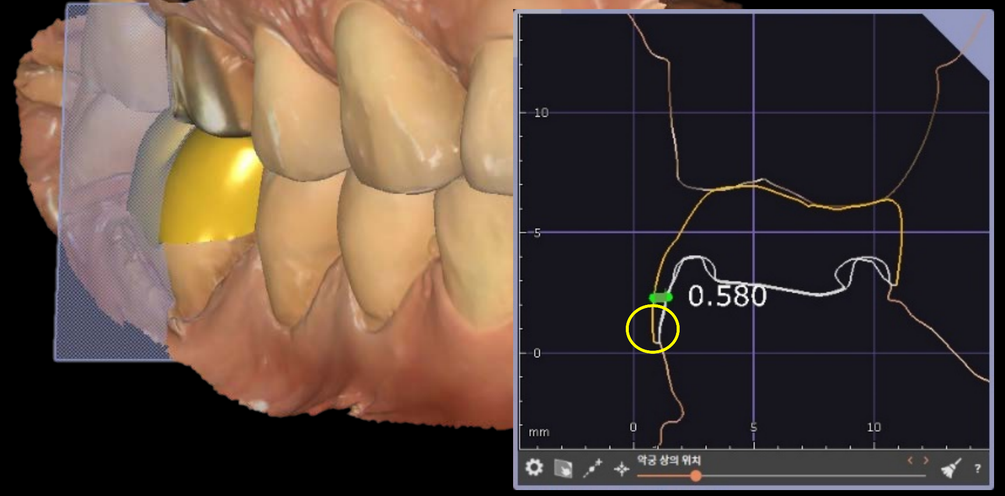




Cad Design

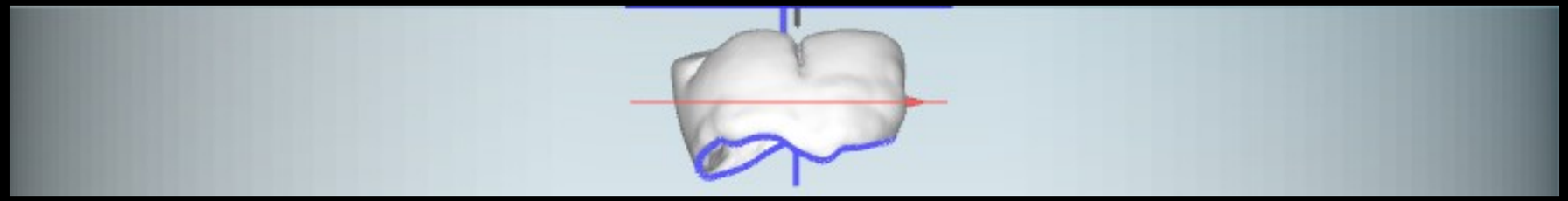






Shade Taking

Hyper Dent



Shade Block A2

Coloring

Inner – White Opaque
Cervical, Groove – A3.5
Occlusal – Light Gray

Glazing

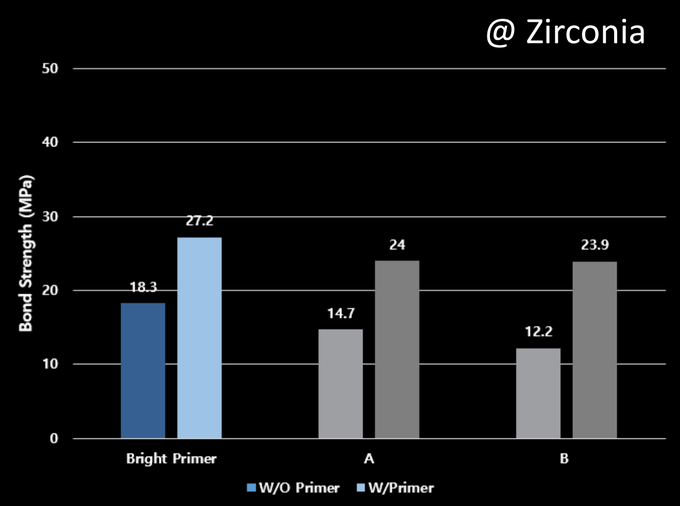
Final Prosthesis

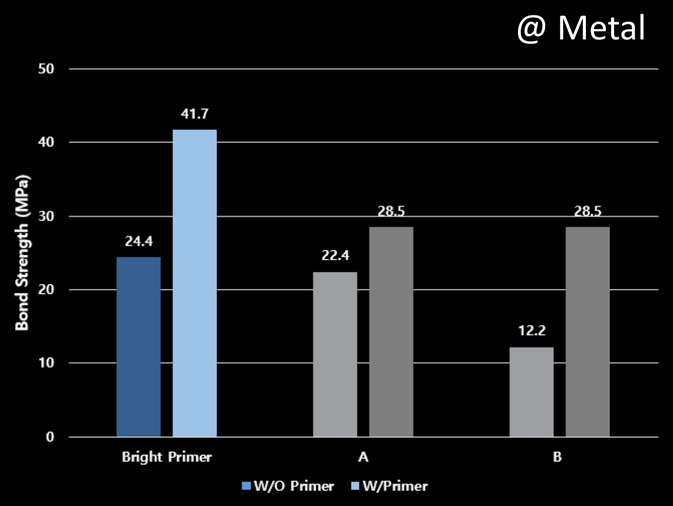
Resin

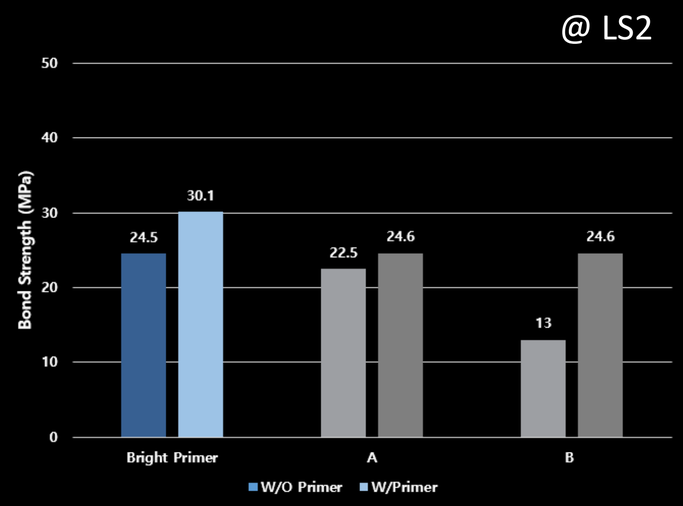
Bright Primer

- **Universal Primer containing 10-MDP**
- Improves Bond strength between cement and restorations
- Excellent bond strength to Zirconia & Metal & LS2

Bond Strength





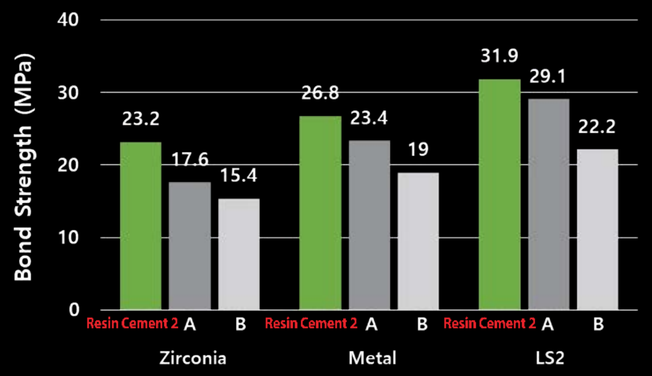


Resin

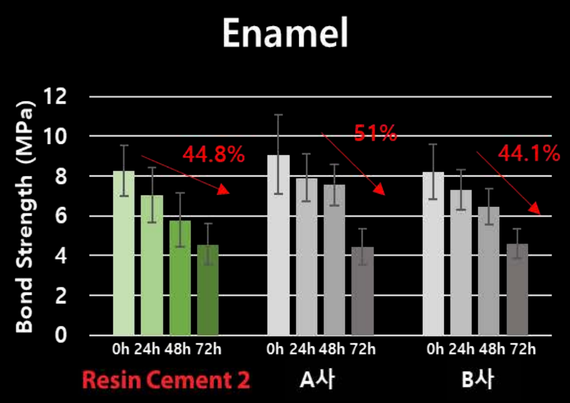
Bright Resin Cement 2

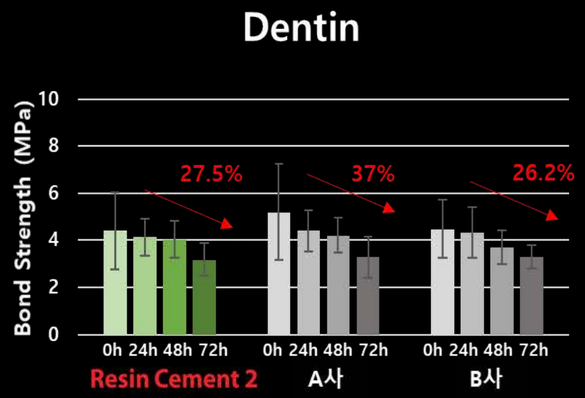
- **Strong (10-MDP) → Strong bonding to indirect restoratives**
- Stable storage stability in both refrigerated and R.T storage
- Long Working time (≥ 2 min) / Short Setting time (≤ 4 min)

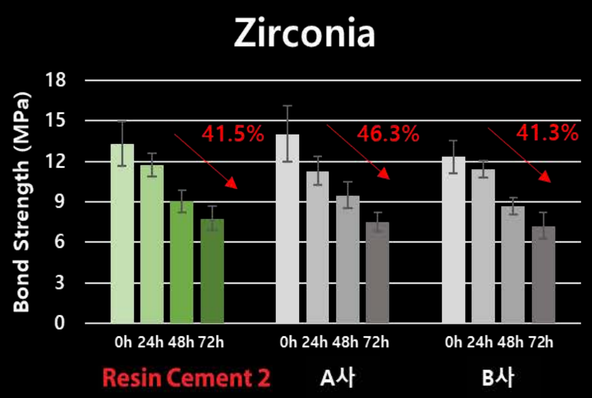
Bond Strength



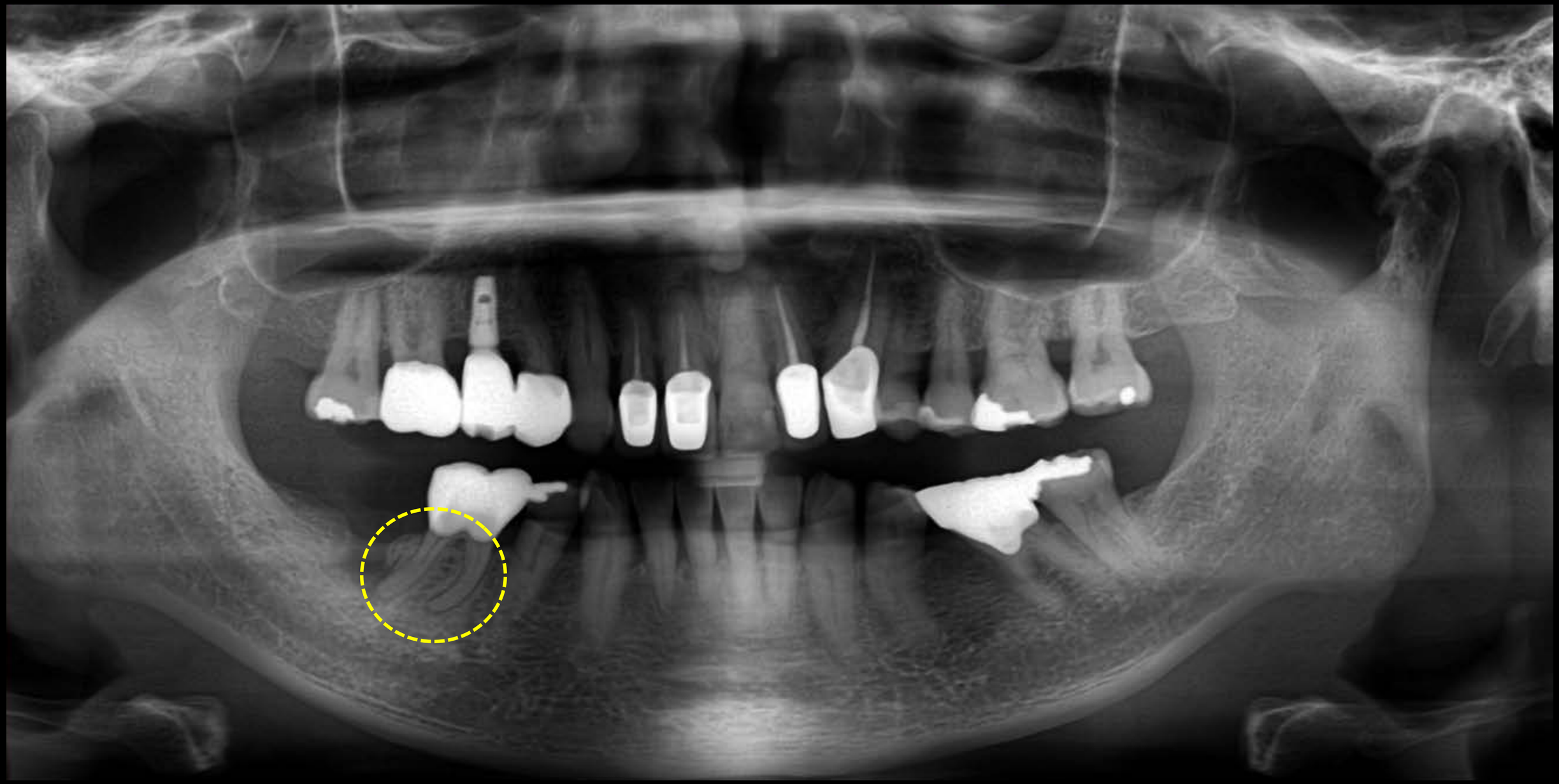
Adhesion durability (72h F/U)



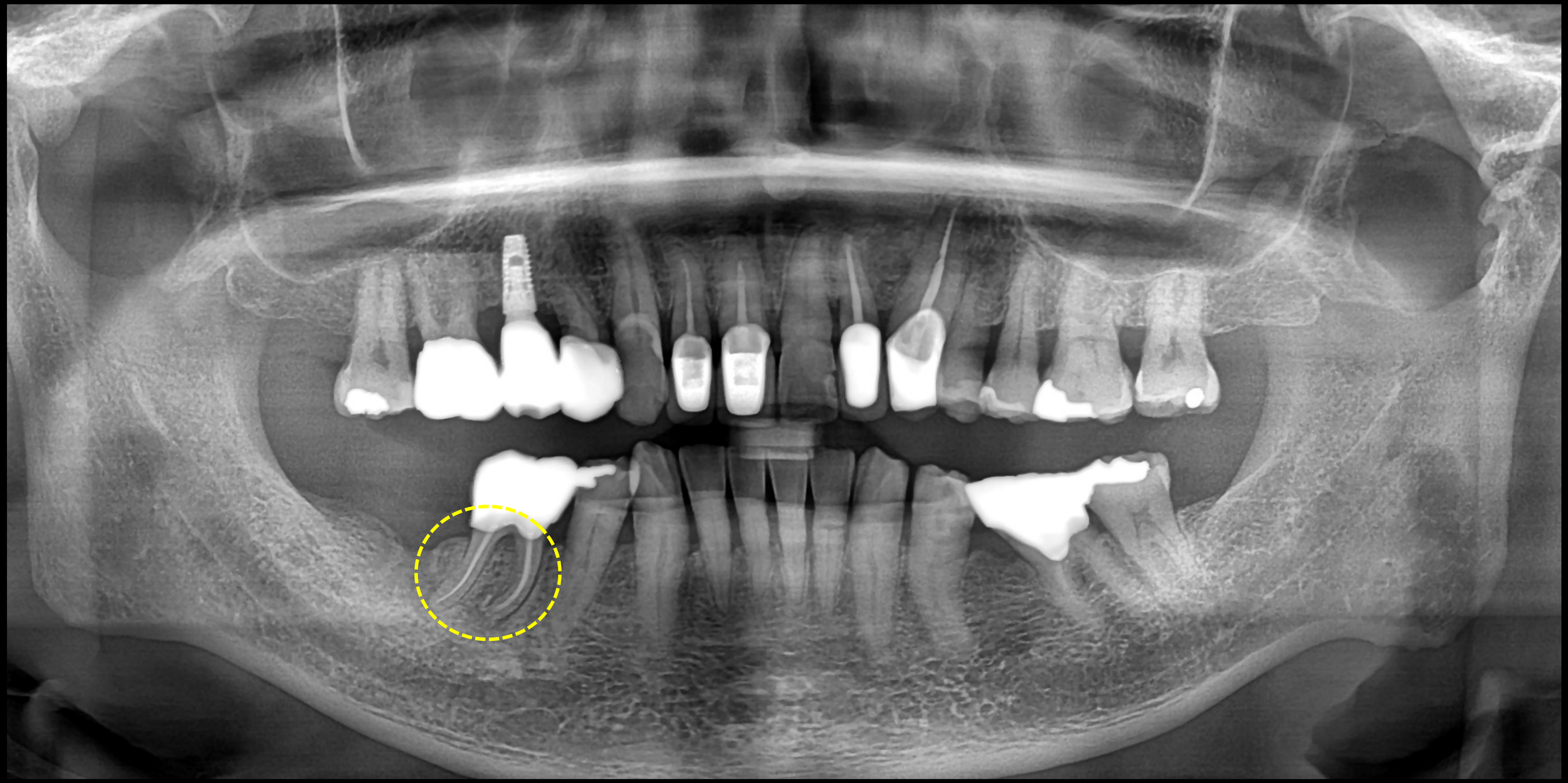




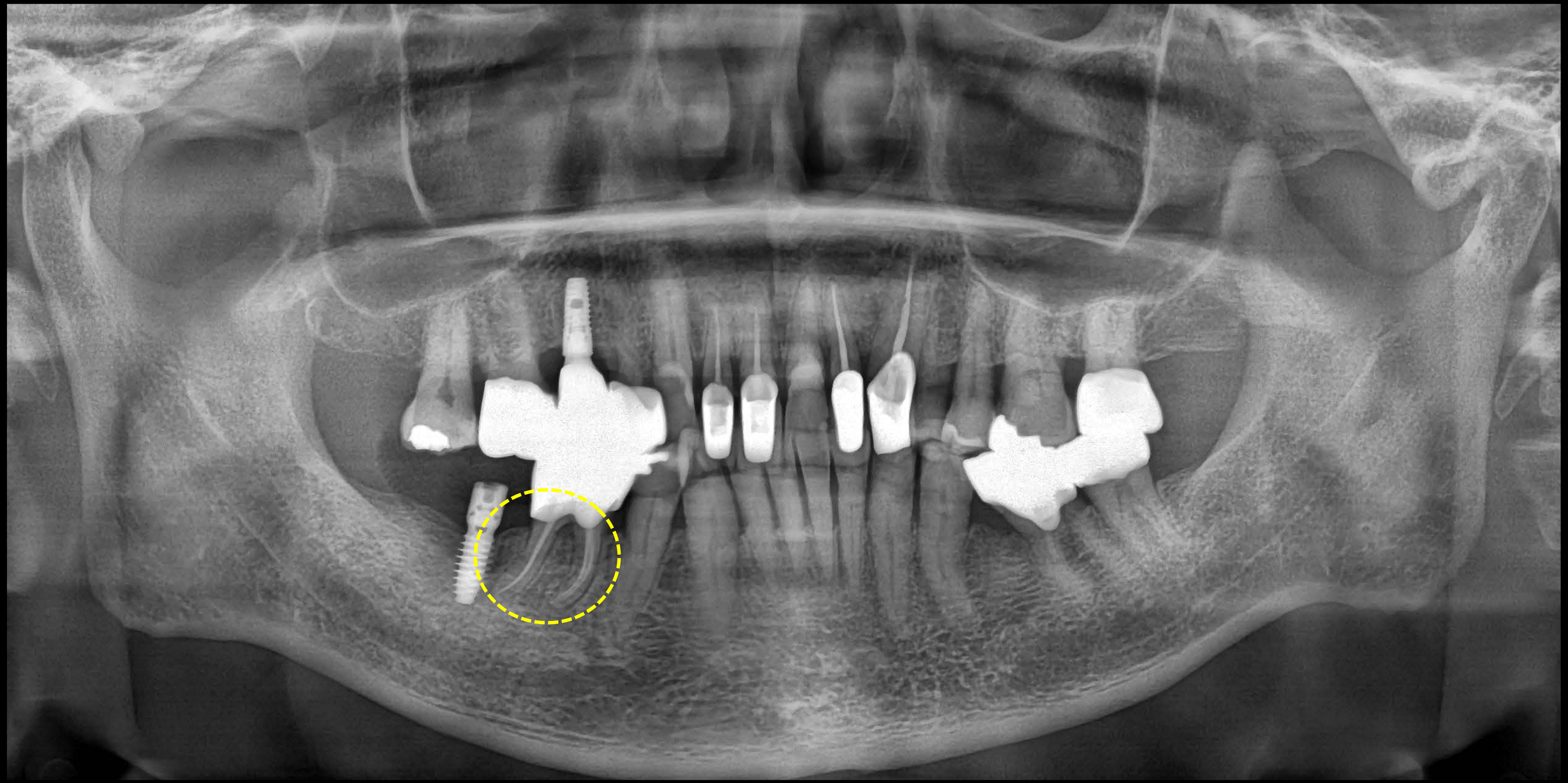
Oral exam (2021-09-16)



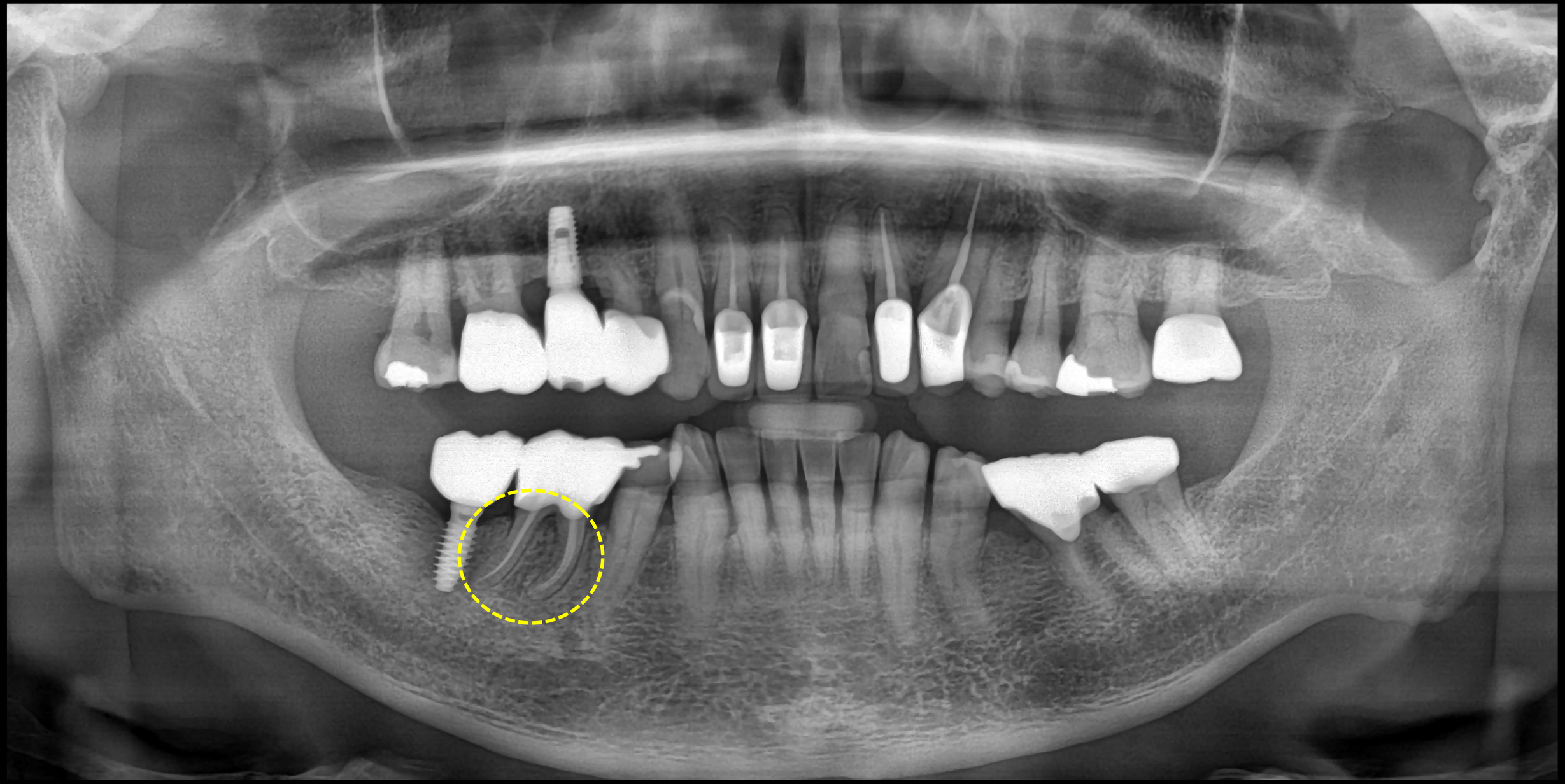
Oral exam (2022-03-10)



Oral exam (2022-11-30)

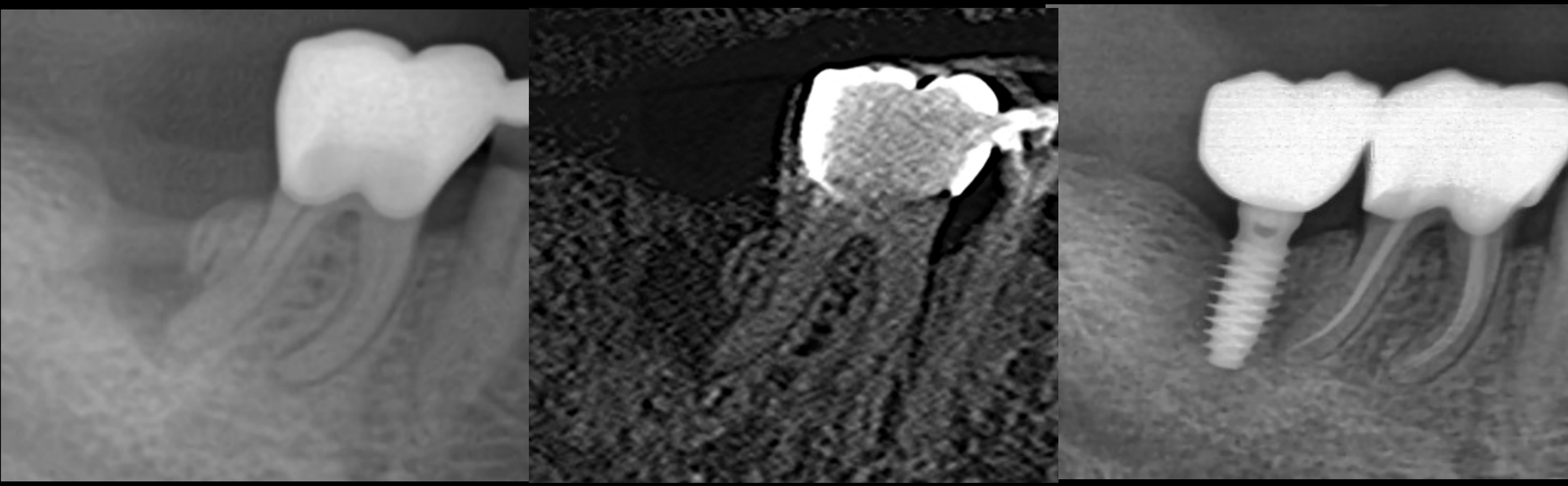


Oral exam (2023-03-22)

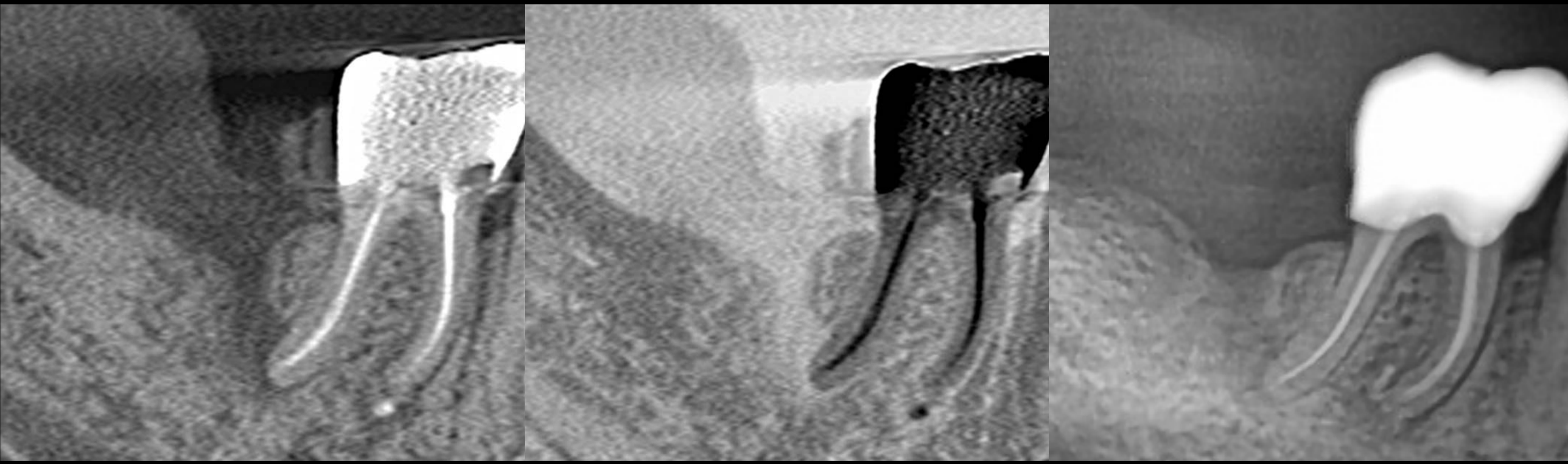


Pre-op (2021-09-16)

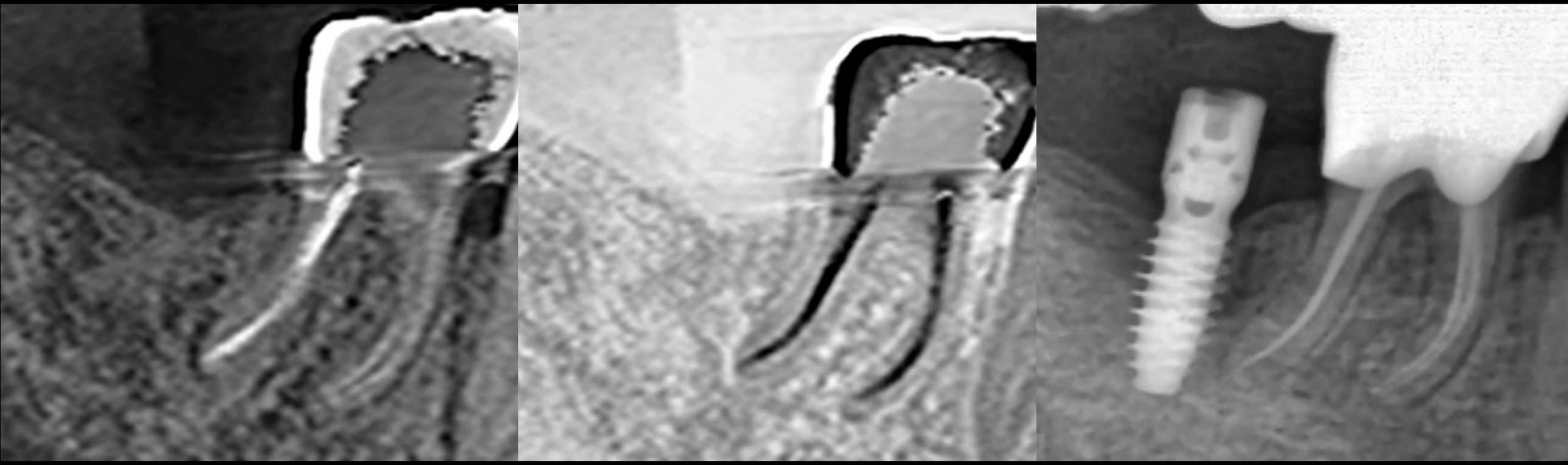
Follow-up : 1 year 4 month (2023-03-22)



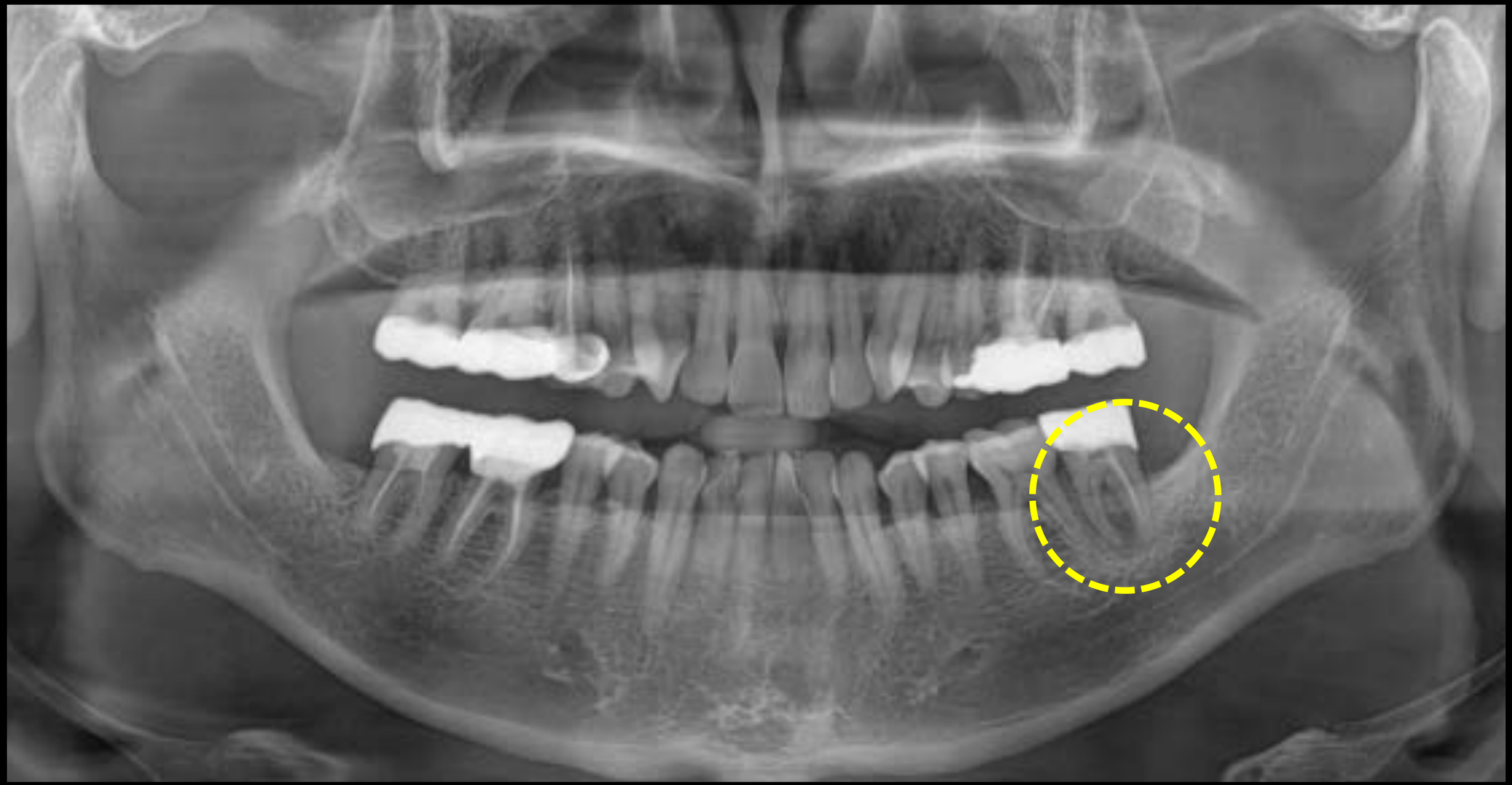
Follow-up : 4 month (2022-03-10)



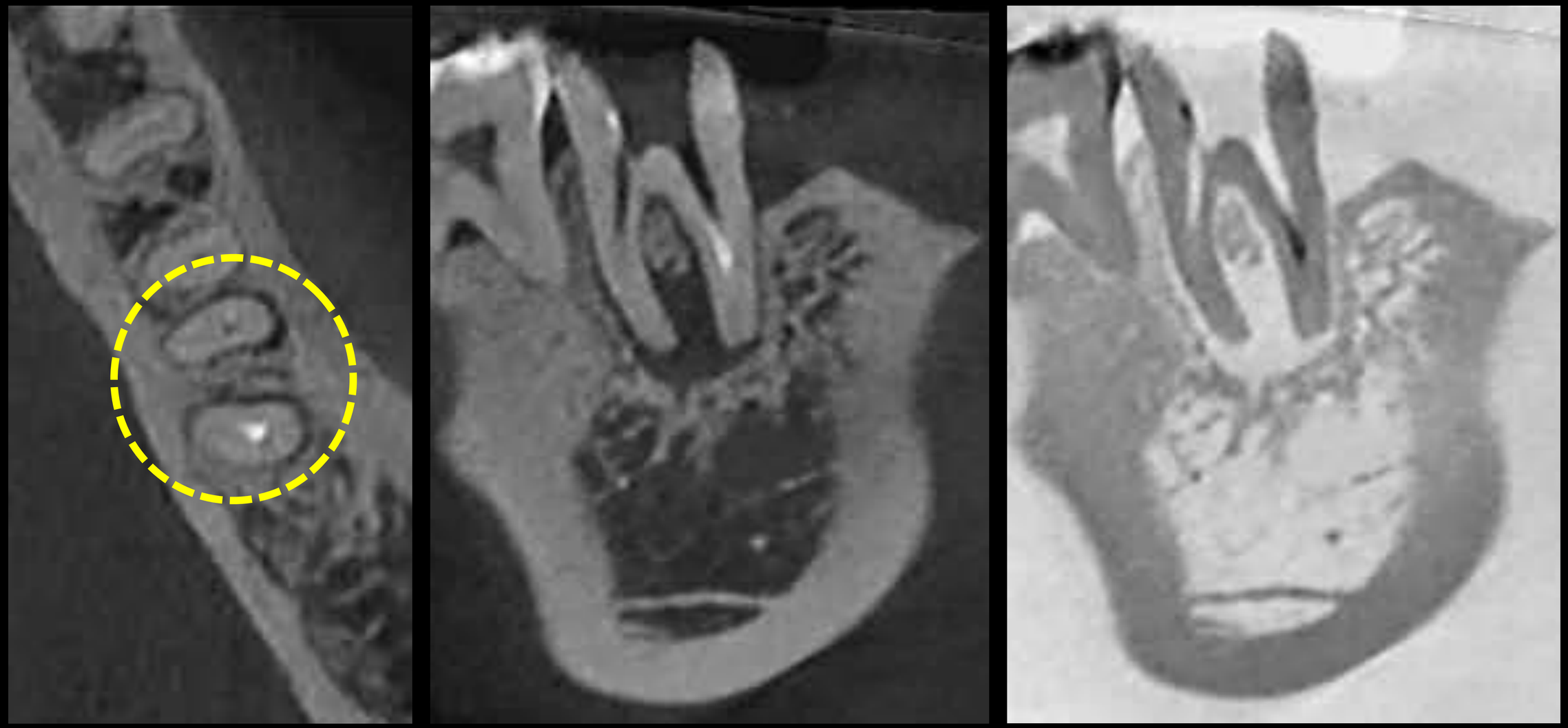
Follow-up : 1 year (2022-11-30)



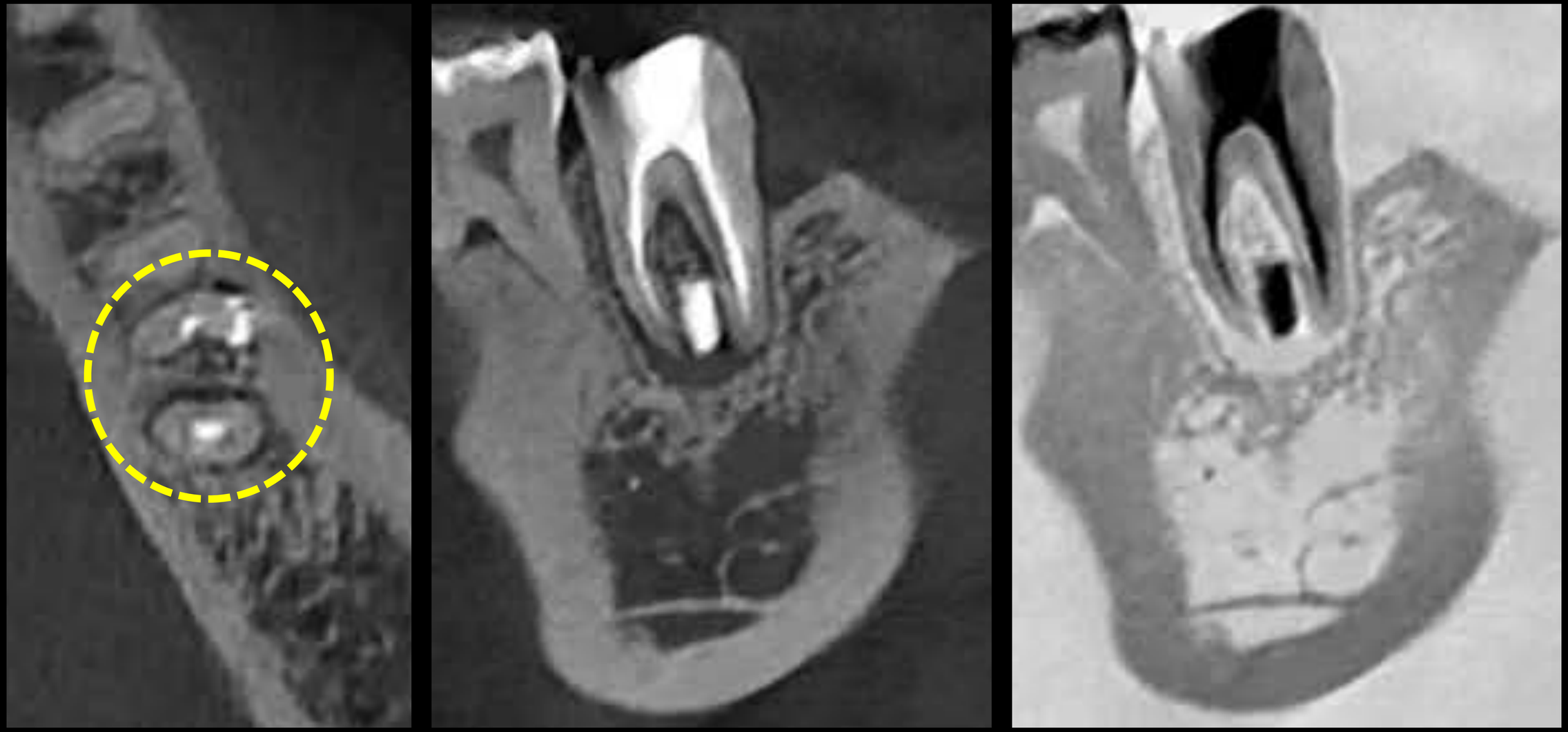
타 치과 진료_Post-op (2024-02-20)



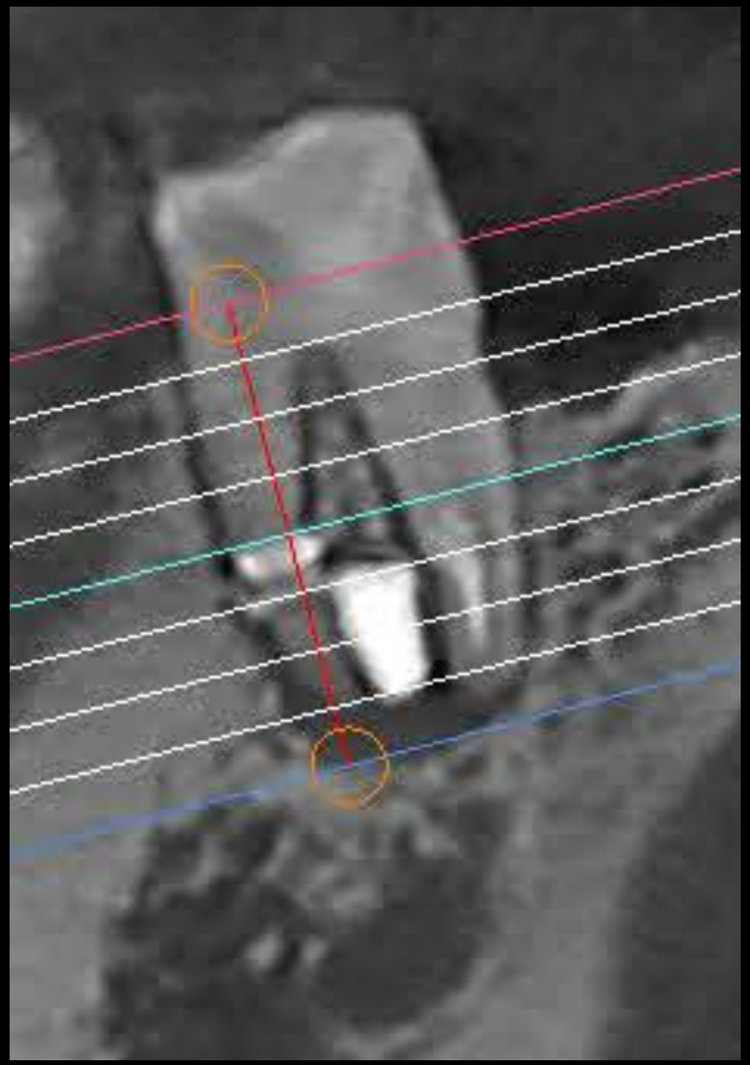
Pre-op CT _ Endo Mode (2024-02-20)

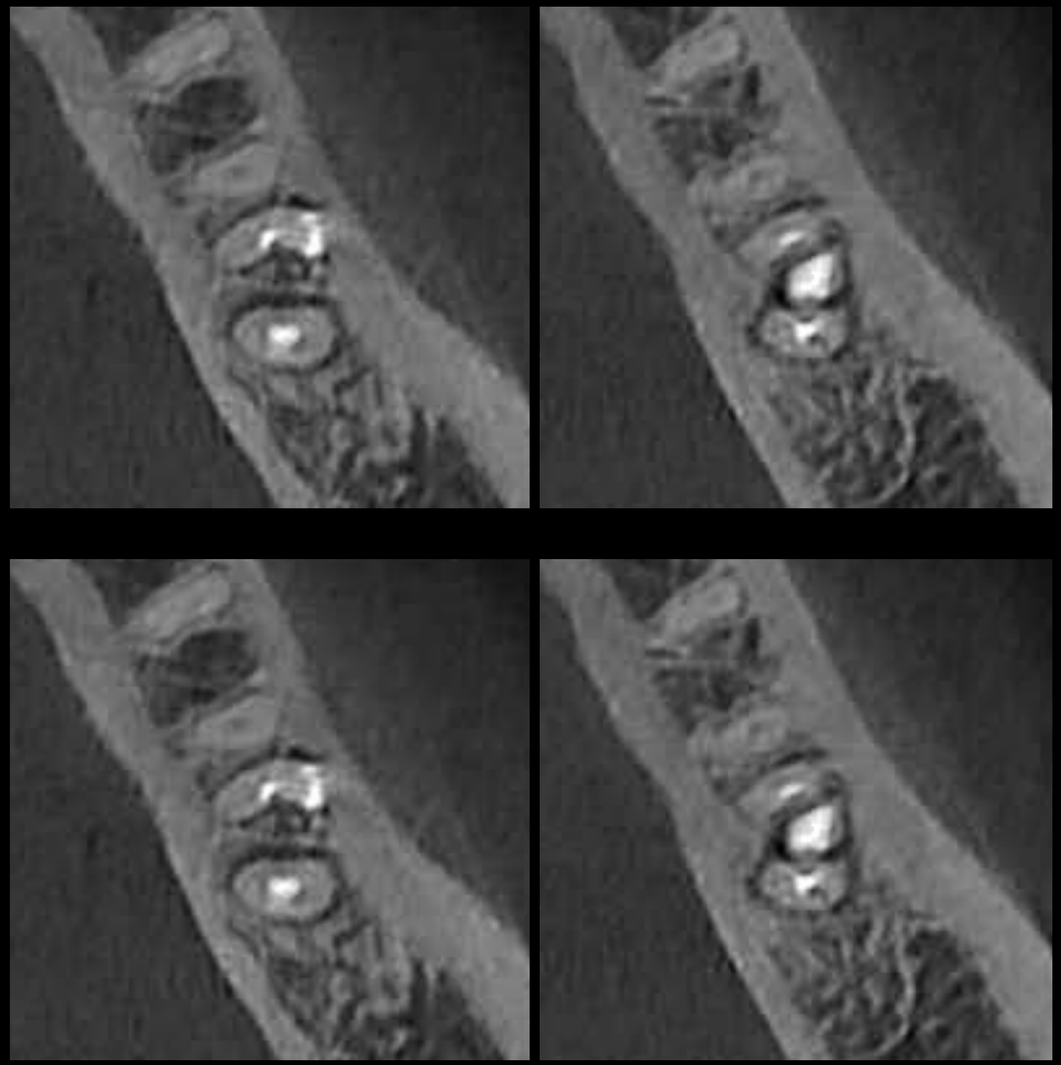


Post-op CT _ Endo Mode (2024-02-27)



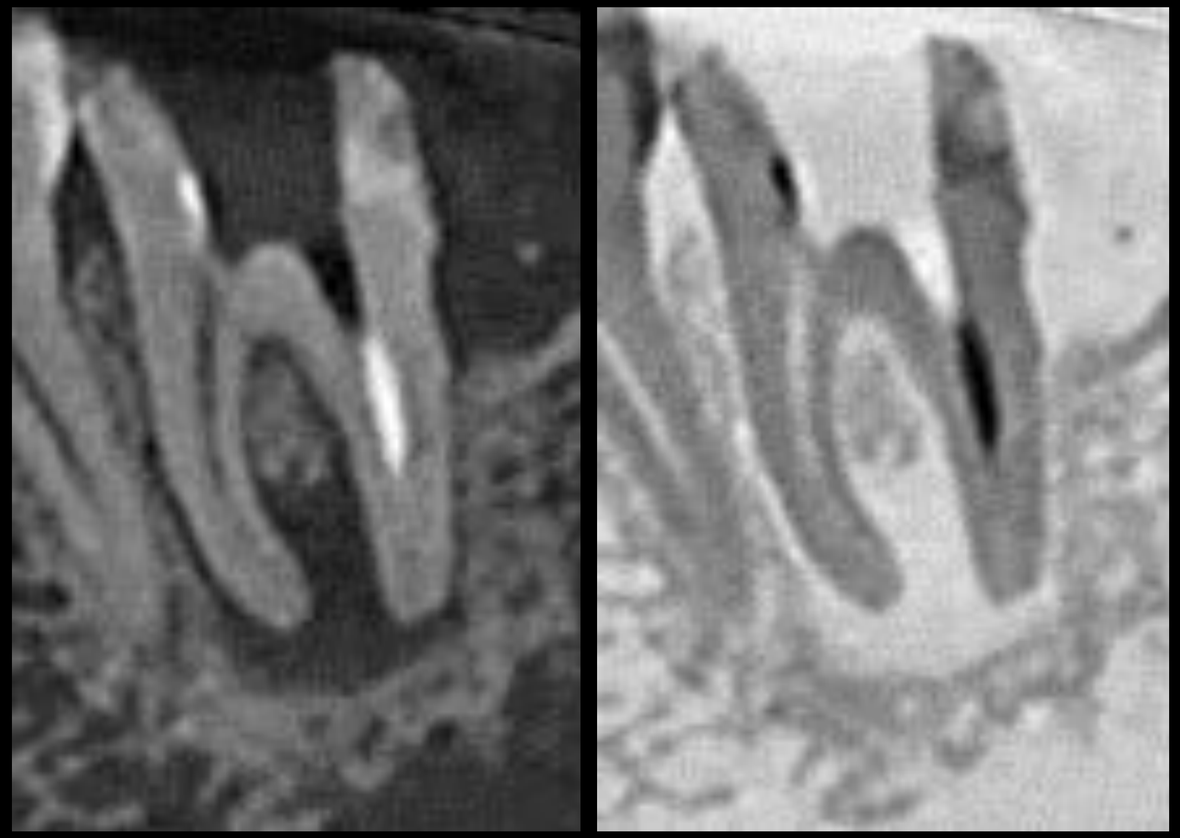
#37 Mesial canal MTA Filling (2024-02-27)



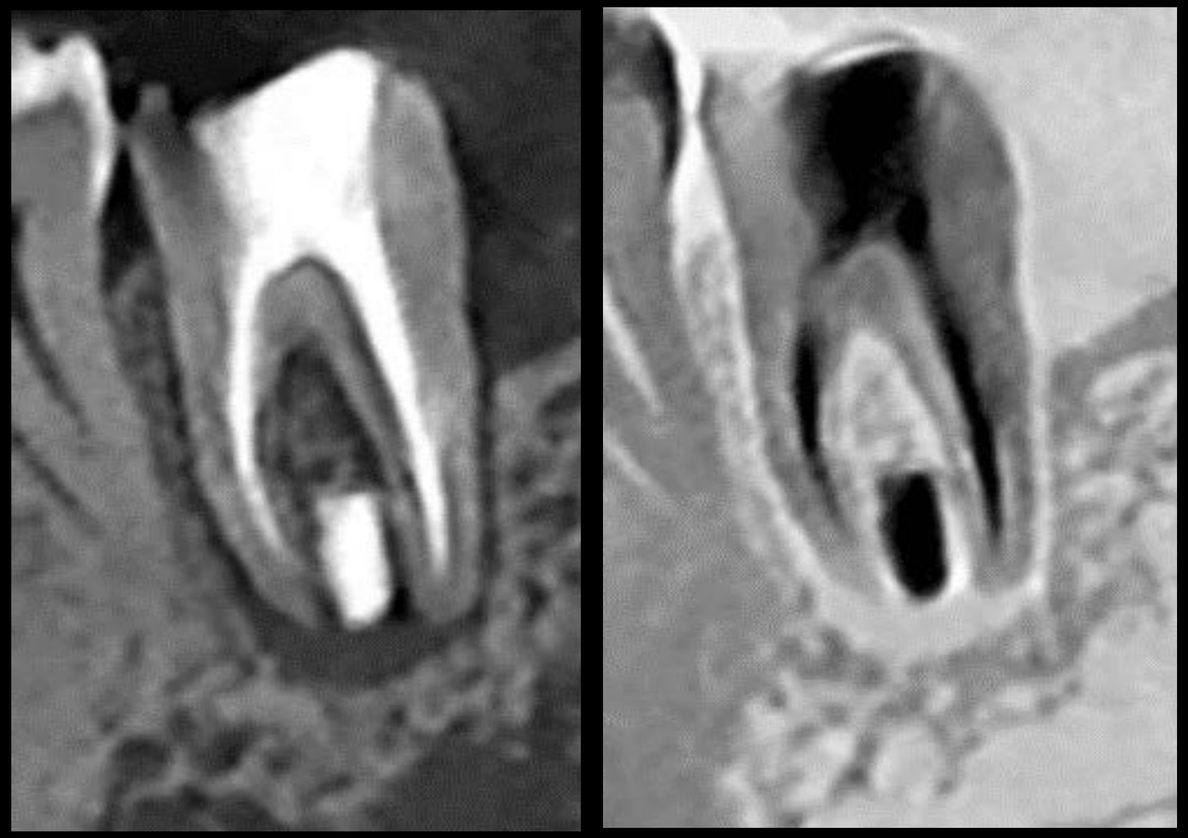


#37 Digital canal GP-Cone + MTA Sealer filling (2024-02-27)

< Pre-op CT >



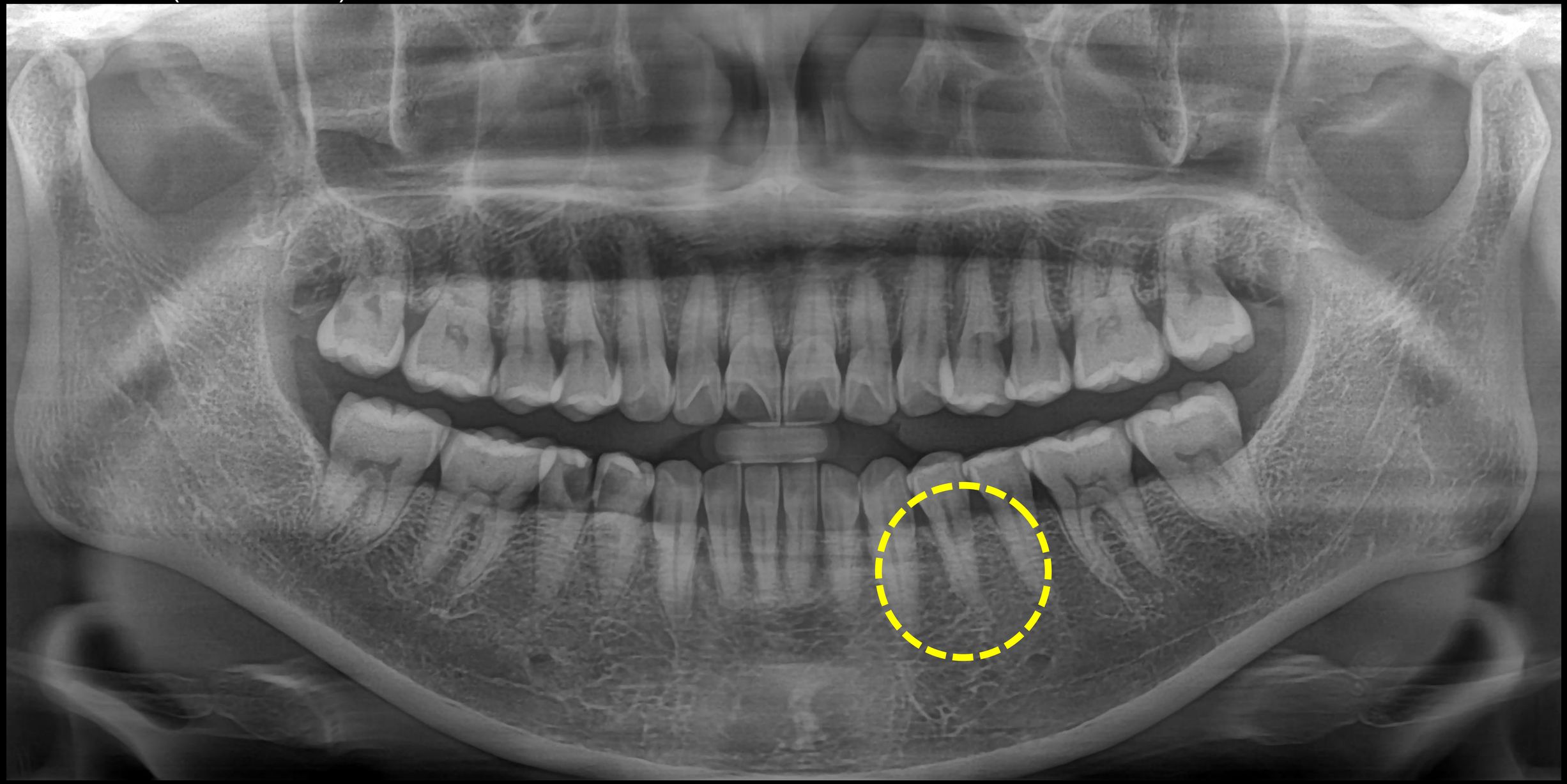
< Post-op CT >



Final Periapical radiograph (2024-02-27)

Follow up : 1 month (2024-03-27)

Oral exam (2023-10-20)



Pre-op CT (2024-03-19)

Post-op (2024-03-19)

Resin core & Abrasion building (2024-03-19)

- Bright Universal Etchant
- Bight Primer
- Bright Bond Universal
- Bright High Flow
- Bright Low Flow

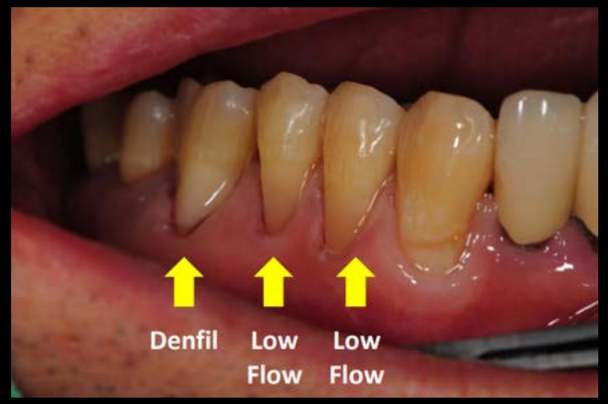
Bright Flow

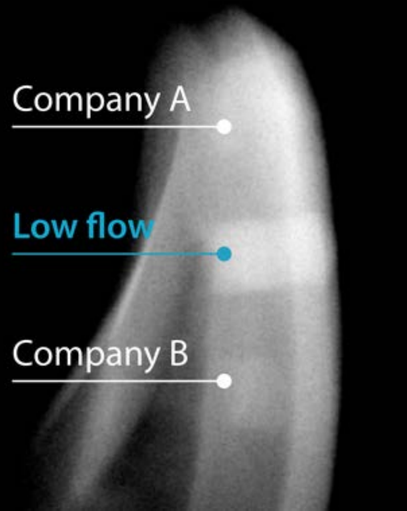
Light-cured Flowable Composite Resin

High flexural strength ≥ 140MPa

Excellent radiopaque

Excellent bonding strength with Bond Universal



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제조원
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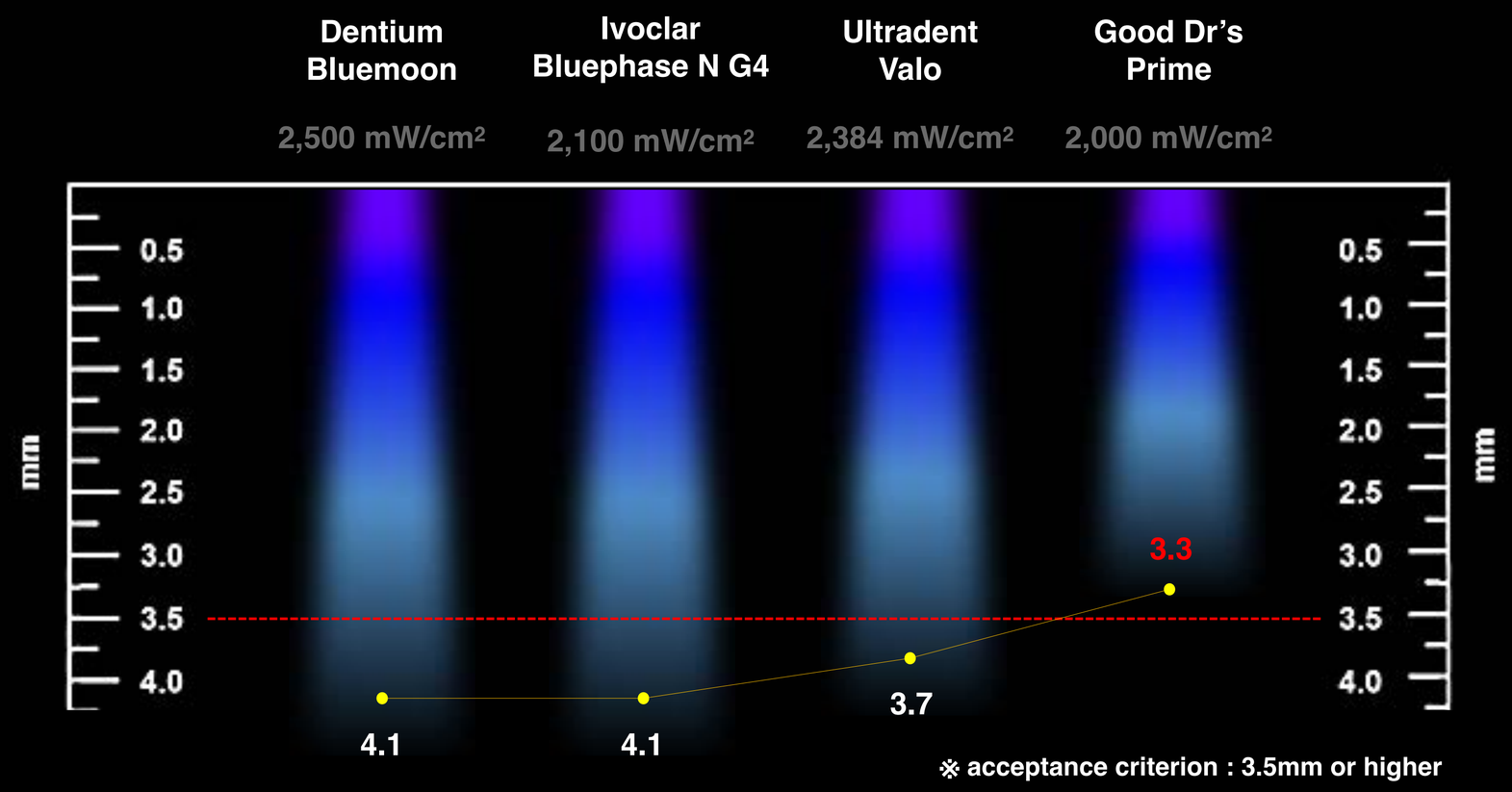
Dentium

Compare Polymerization Depth performance with Competitors

- Bluemoon(4.1mm) ≒ Bluephase(4.1mm) > Valo(3.7mm) > Prime (3.3mm)



방문해 주신 여러분들께 감사합니다

자료 준비에 도움을 준
개발팀 치과팀
임상연구팀 마케팅팀
노고에 감사합니다