



LIVE

Surgey

Dr. Root

2020.05.08 (Fri.)



[Case 1 Preview]

Implant Placement using Digital Guide
& Contour augmentation on Anterior area

Patient Information

Age : 48y

Sex : Female

Chief Complaint

: "I want an implant surgery consultation"

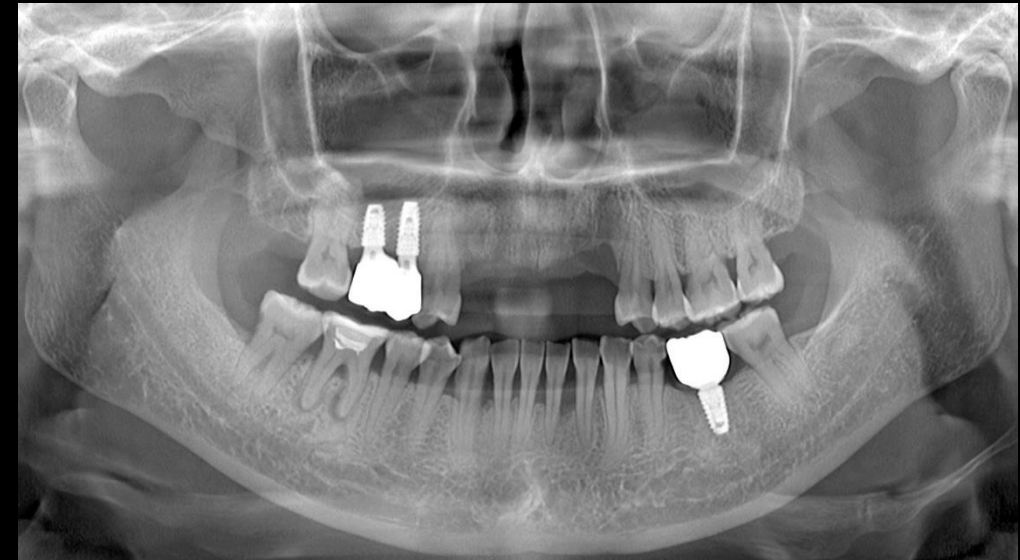
Past Medical History

: N/S

Past Dental History

: Extraction #13,22,23 (2019.10.01)

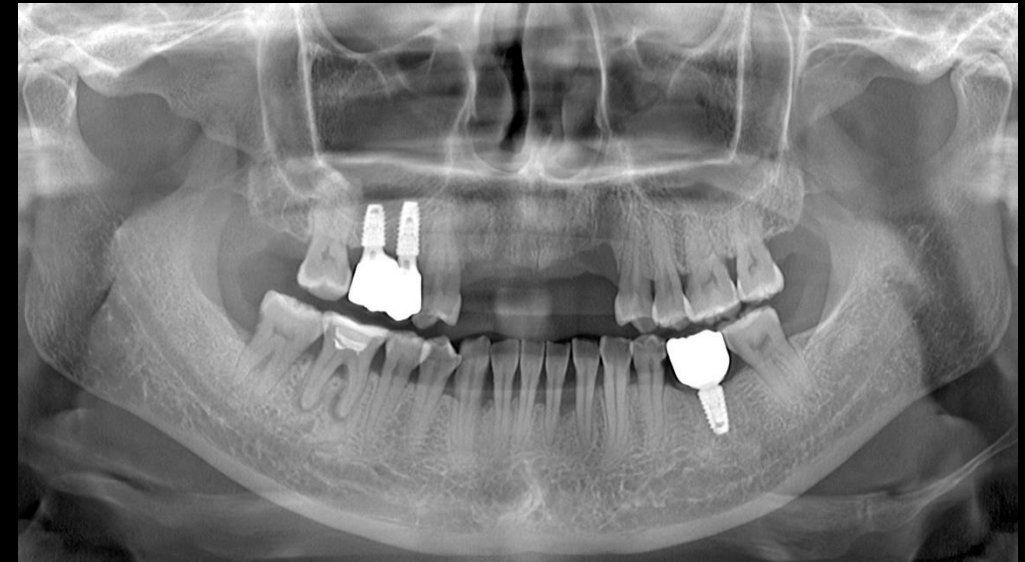
Extraction #11,12,21 (2019.11.26)



Patient Information

Surgery Plan

- 3 Fixture installation using Digital Guide
- #23 Bone graft using OSTEON™ 3 (Block Type)
- Contour augmentation



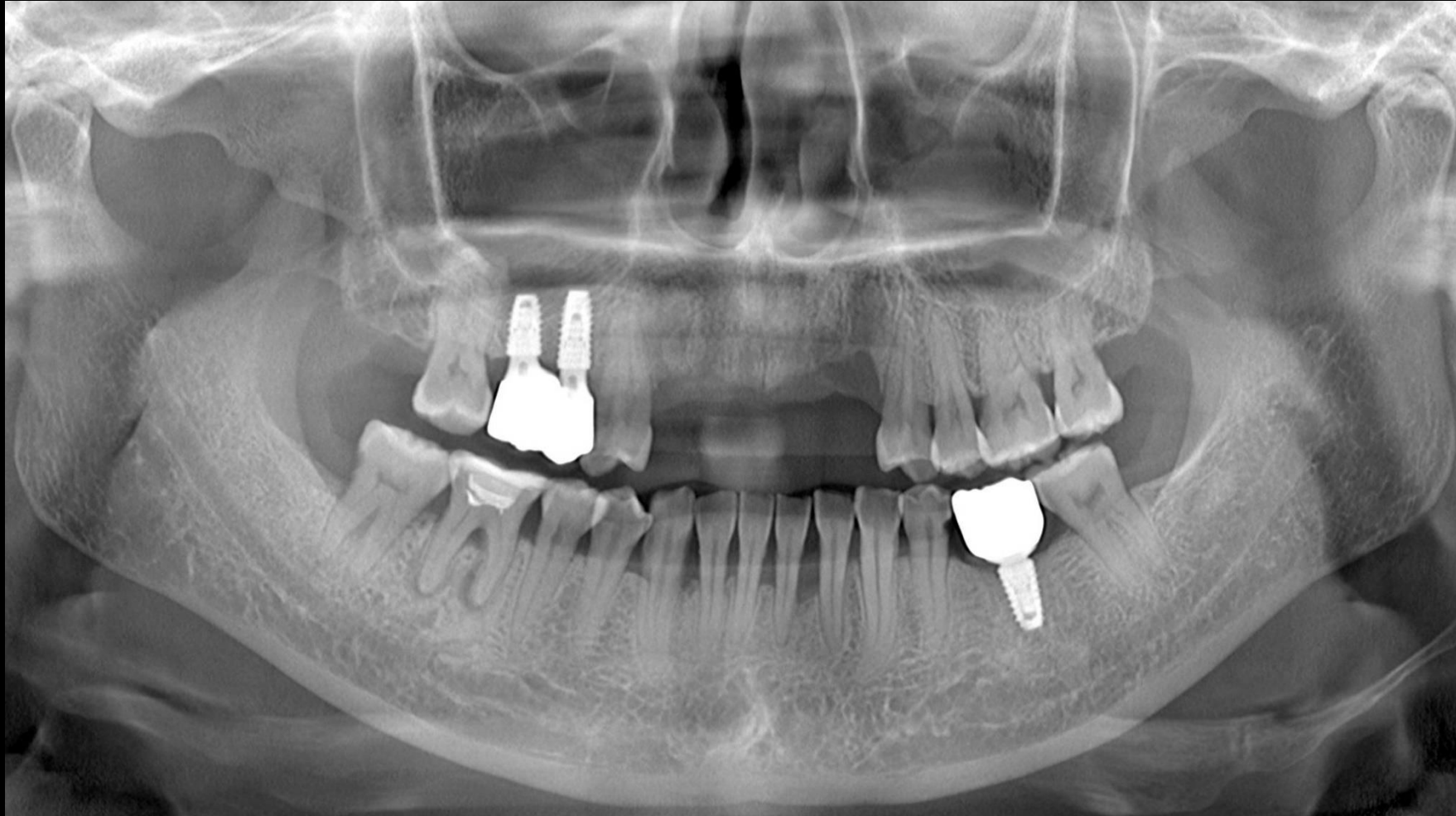
Pt. Kim (48y/F)

Oral exam (2019-08-19)



Pt. Kim (48y/F)

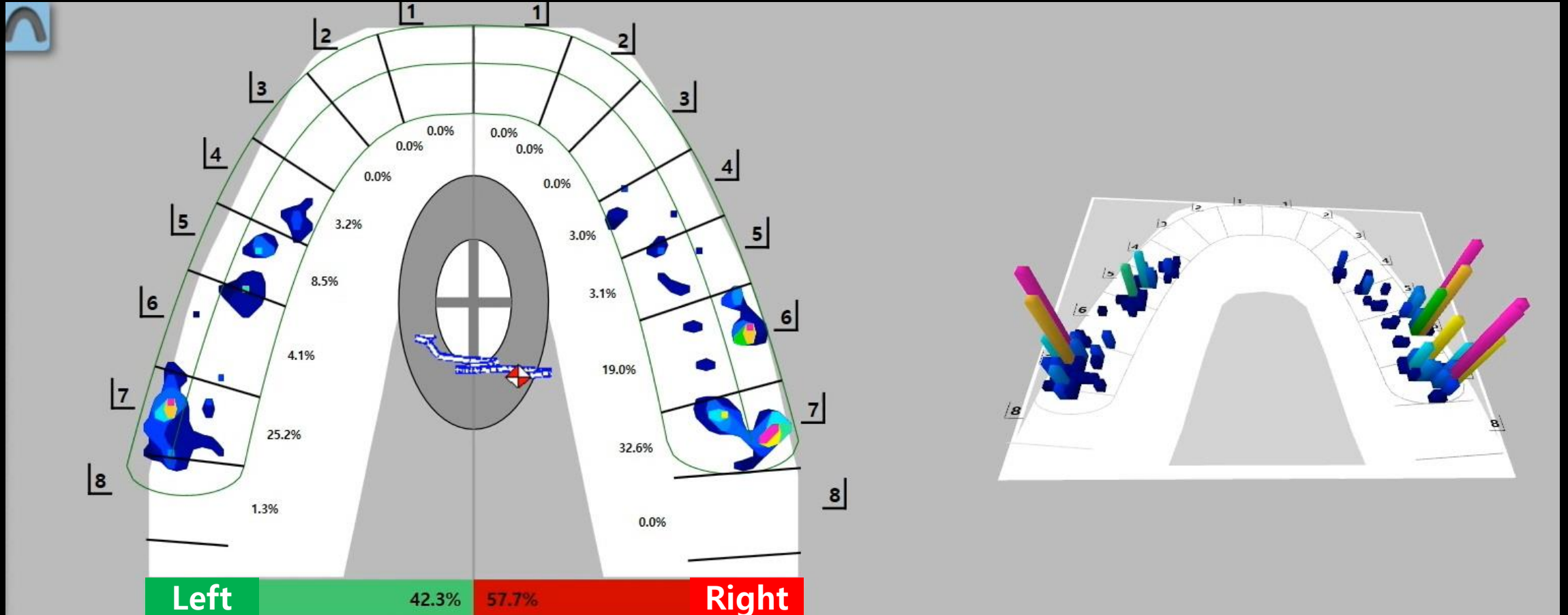
Pre-op (2020-04-06)



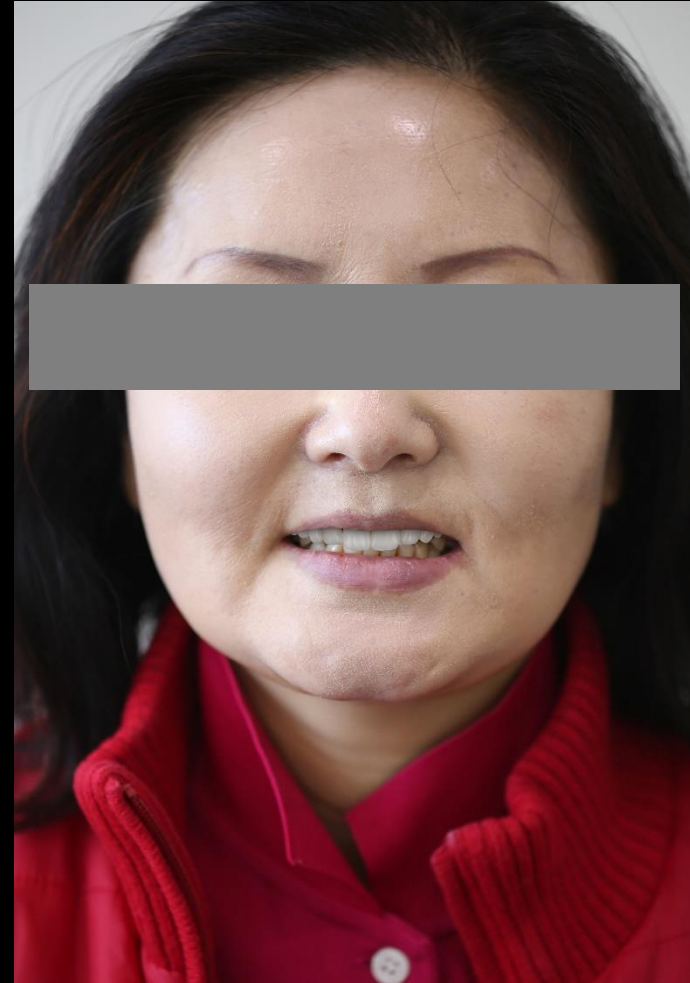
Initial Photo



Bite examination



Smile Design



rainbow 3D Viewer

MPR CROSS VIRTUAL CEPH TMJ REPORT

Curve Info
W 80mm
I 1.0mm
T 1.0mm

Transfer function

Reset
Viewport
Annotation

Nerve Info
T 1.0mm

Dentium
For Dentists By Dentists

rainbow 3D Viewer MPR **CROSS** VIRTUAL CEPH TMJ REPORT

Curve Info
W 80mm
I 1.0mm
T 1.0mm

Transfer function

Reset
Viewport
Annotation

Nerve Info
T 1.0mm

Dentium
For Dentists By Dentists

The screenshot displays the 'rainbow 3D Viewer' software interface. The main window is titled 'CROSS' and shows a cross-sectional view of a dental arch. A yellow curve is drawn along the arch, with several blue dots marking specific points. A red line is drawn from the center of the arch towards the top. The interface includes a left sidebar with various tool panels: 'View Control' (brightness, contrast, zoom), 'Annotation' (lines, circles, polygons), 'Measurement' (2D, angle, HU, graph), 'Capture Group' (camera, screenshot, video), 'Layout' (grid, window), 'Transfer function' (slider), and 'Reset' (viewport, annotation). The bottom left corner features the 'Dentium' logo. The top right corner has window control buttons. The main area is divided into several panels: a large 'CROSS' panel, a 'VIRTUAL CEPH' panel with a grid of 12 images, a 'TMJ' panel, and a 'REPORT' panel. A 'Nerve Info' panel is visible at the bottom left of the main area.

rainbow 3D Viewer MPR **CROSS** VIRTUAL CEPH TMJ REPORT

Curve Info
W 80mm
I 1.0mm
T 1.0mm

Transfer function

Reset
Viewport
Annotation

Nerve Info
T 1.0mm

Dentium
For Dentists By Dentists

rainbow 3D Viewer MPR **CROSS** VIRTUAL CEPH TMJ REPORT

Curve Info
W 80mm
I 1.0mm
T 1.0mm

Transfer function

Reset
Viewport
Annotation

Nerve Info
T 1.0mm

Dentium
For Dentists By Dentists

rainbow 3D Viewer MPR **CROSS** VIRTUAL CEPH TMJ REPORT

Curve Info
W 80mm
I 1.0mm
T 1.0mm

Nerve Info
T 1.0mm

Transfer function

Reset

Viewport

Annotation

Model Builder

Dentium
For Dentists By Dentists

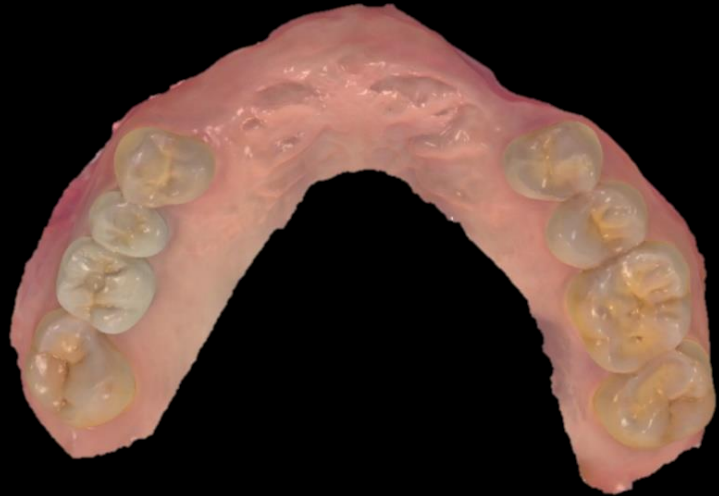
rainbow 3D Viewer MPR **CROSS** VIRTUAL CEPH TMJ REPORT

Patient Information
View Control
Open
Project
Save
Settings
Measurement
Capture Group
Layout
Transfer function
Reset
Model Builder

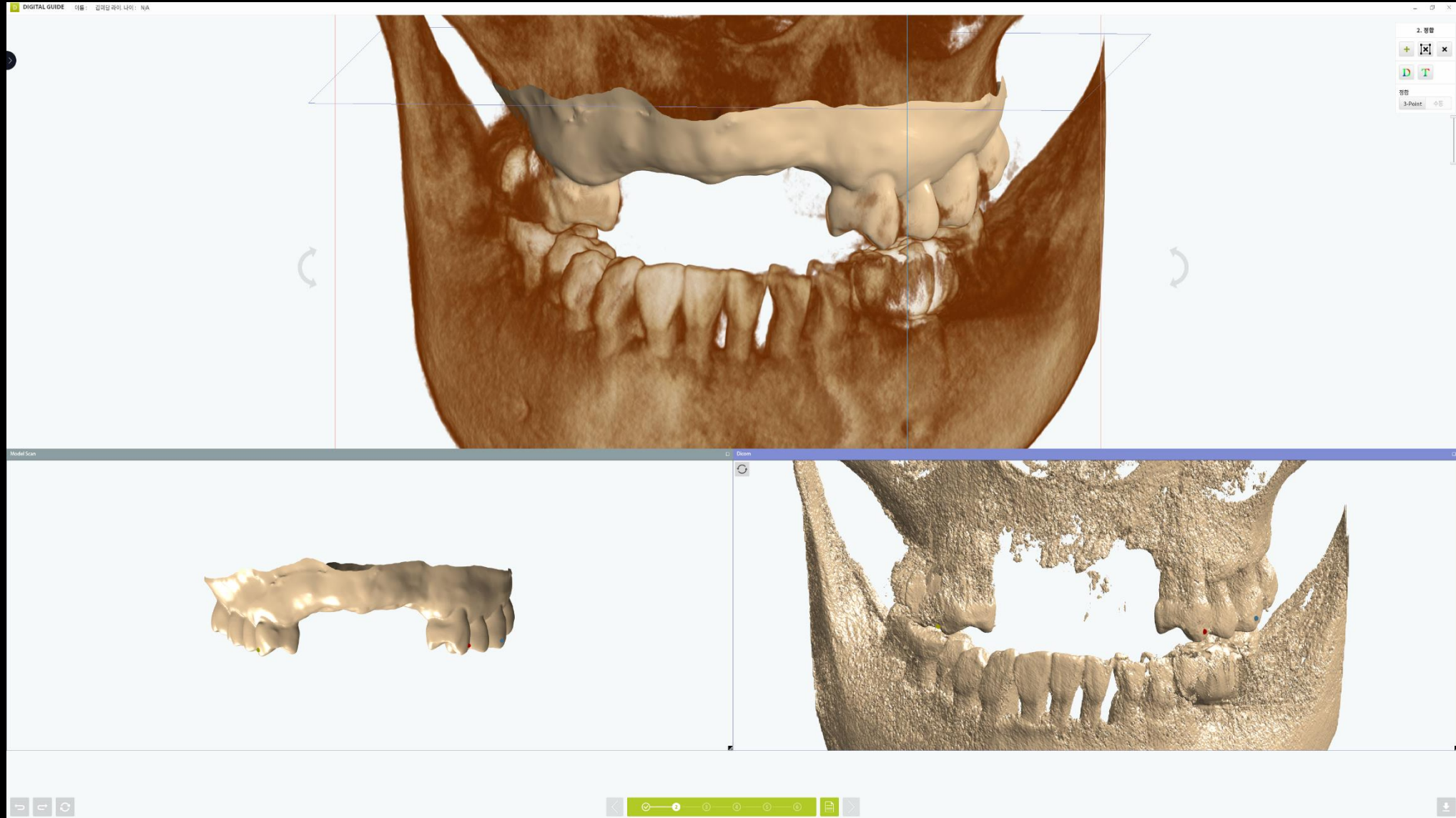
Curve Info
W 80mm
I 1.0mm
T 1.0mm

Nerve Info
T 1.0mm

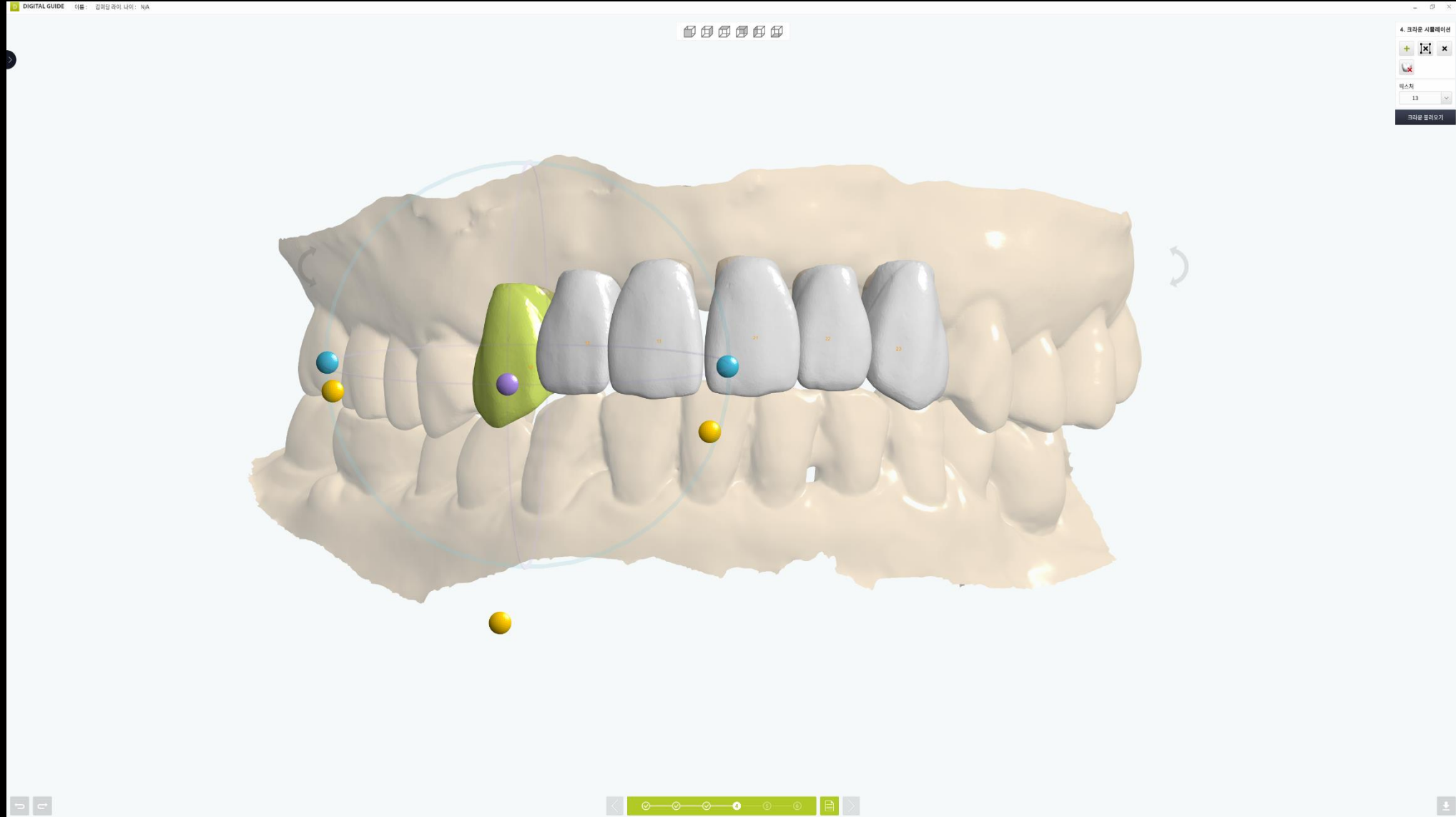
Intra Oral Scanning



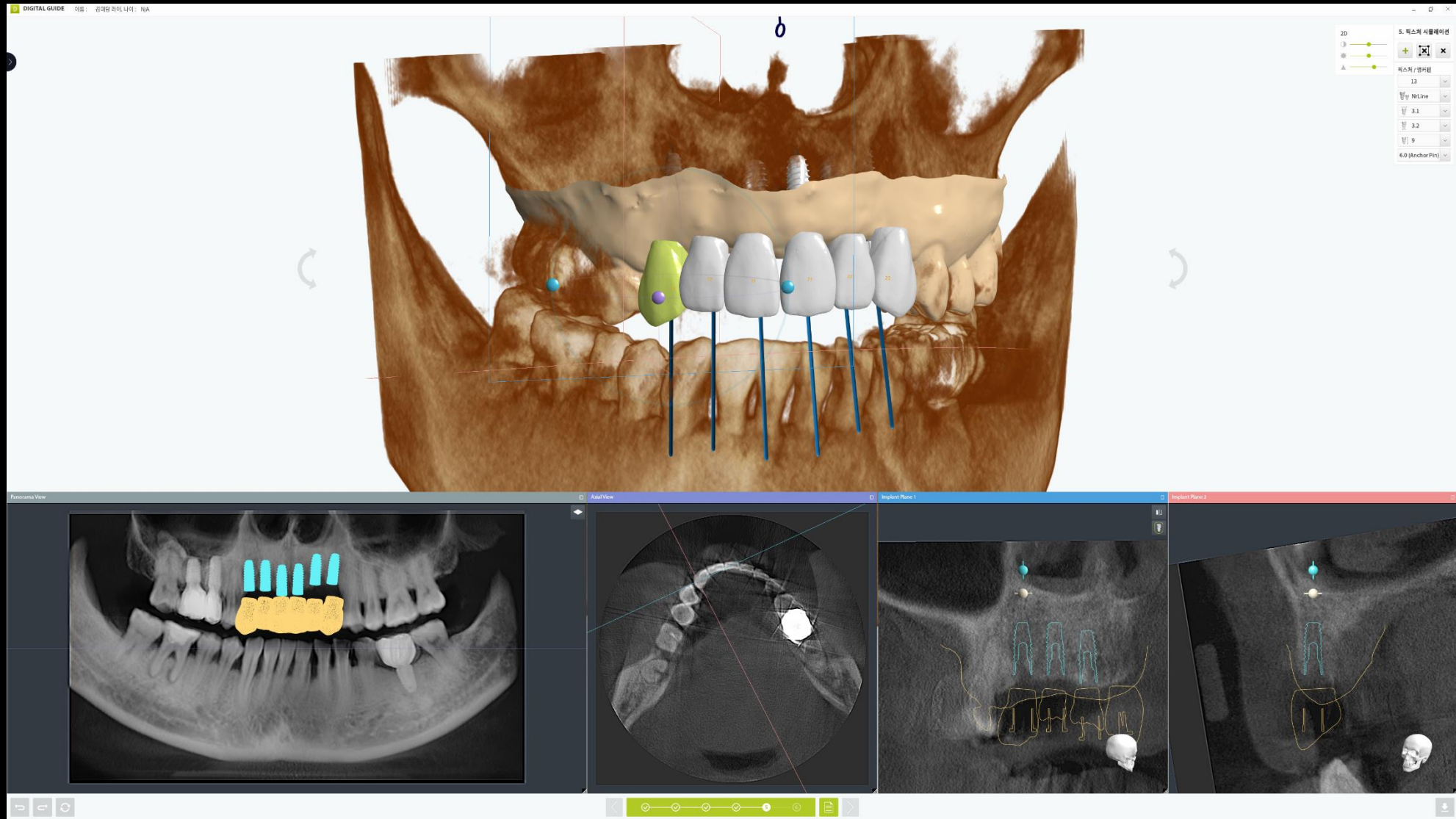
Digital Guide S/W (3 Point Merging)



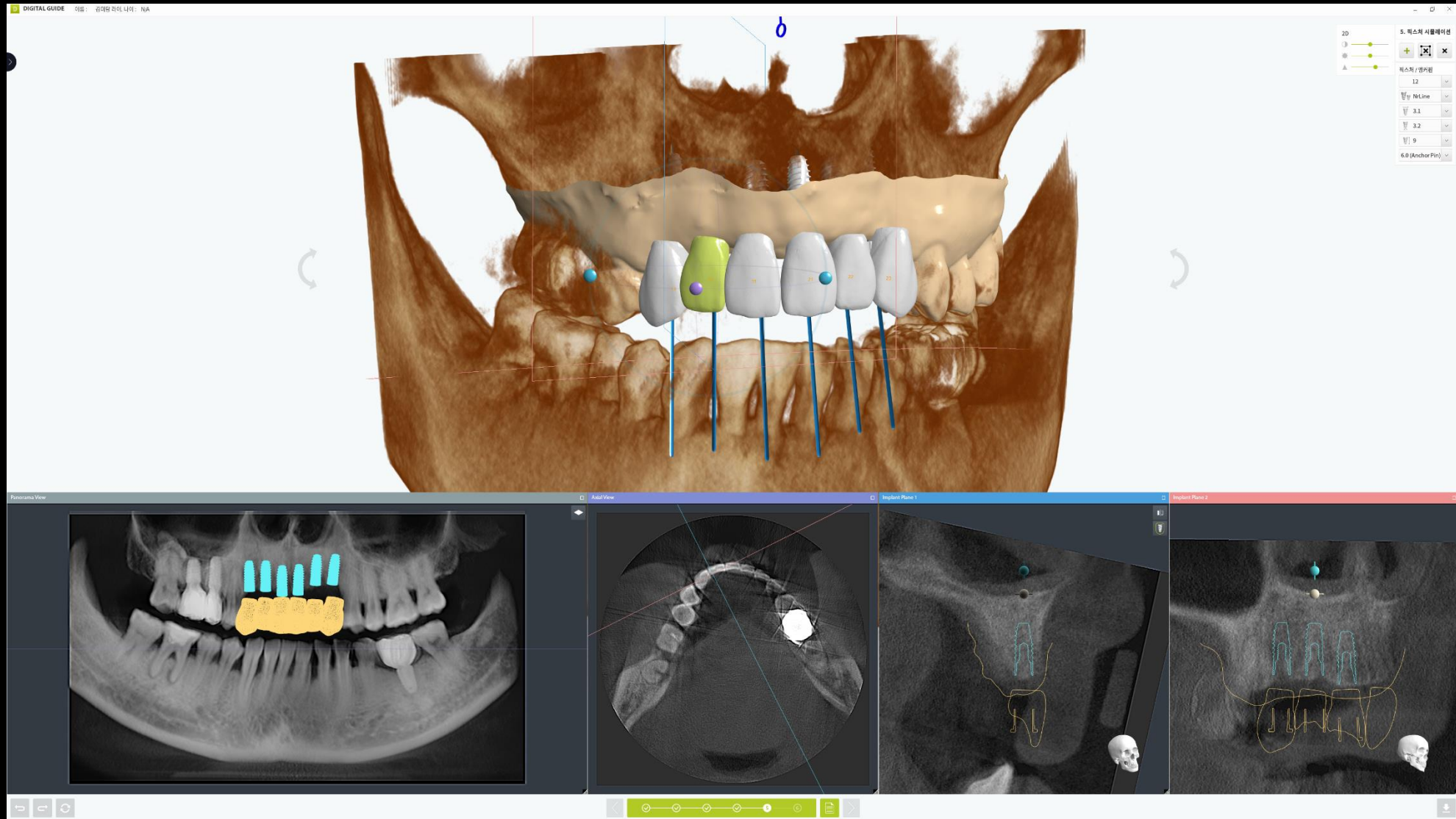
Digital Guide S/W (Crown Design)



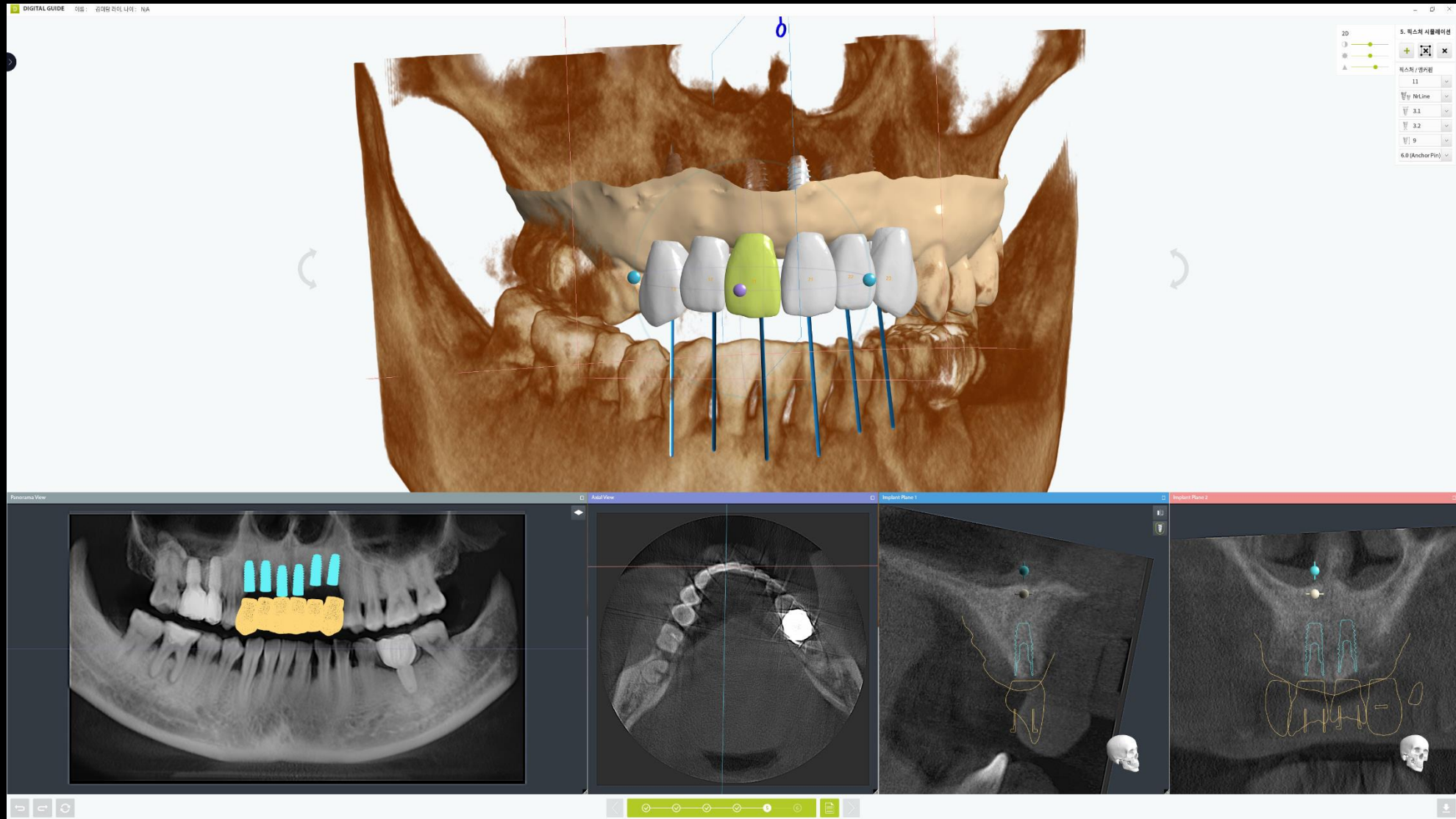
Digital Guide S/W (#13 Implant planning)



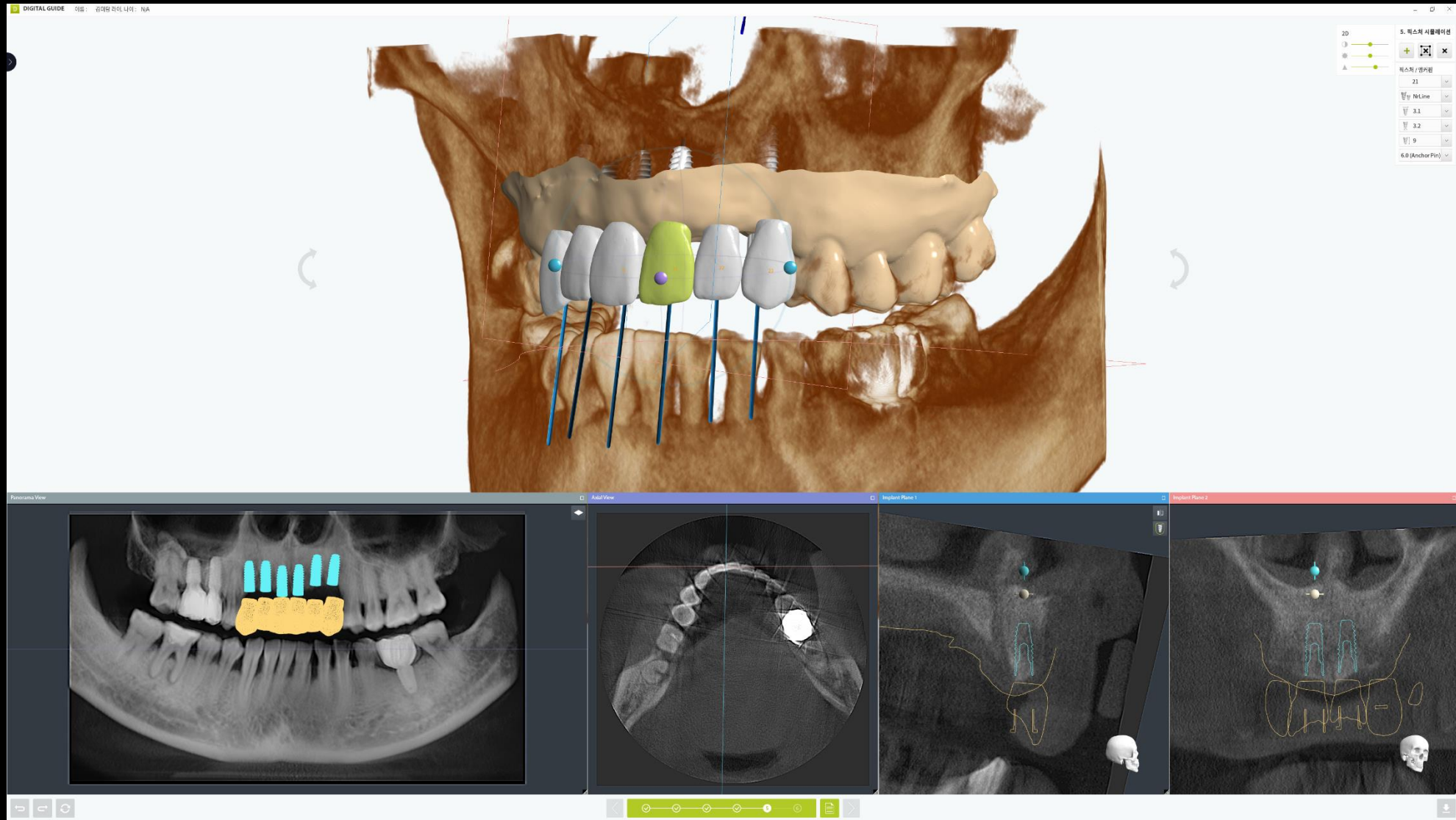
Digital Guide S/W (#12 Implant planning)



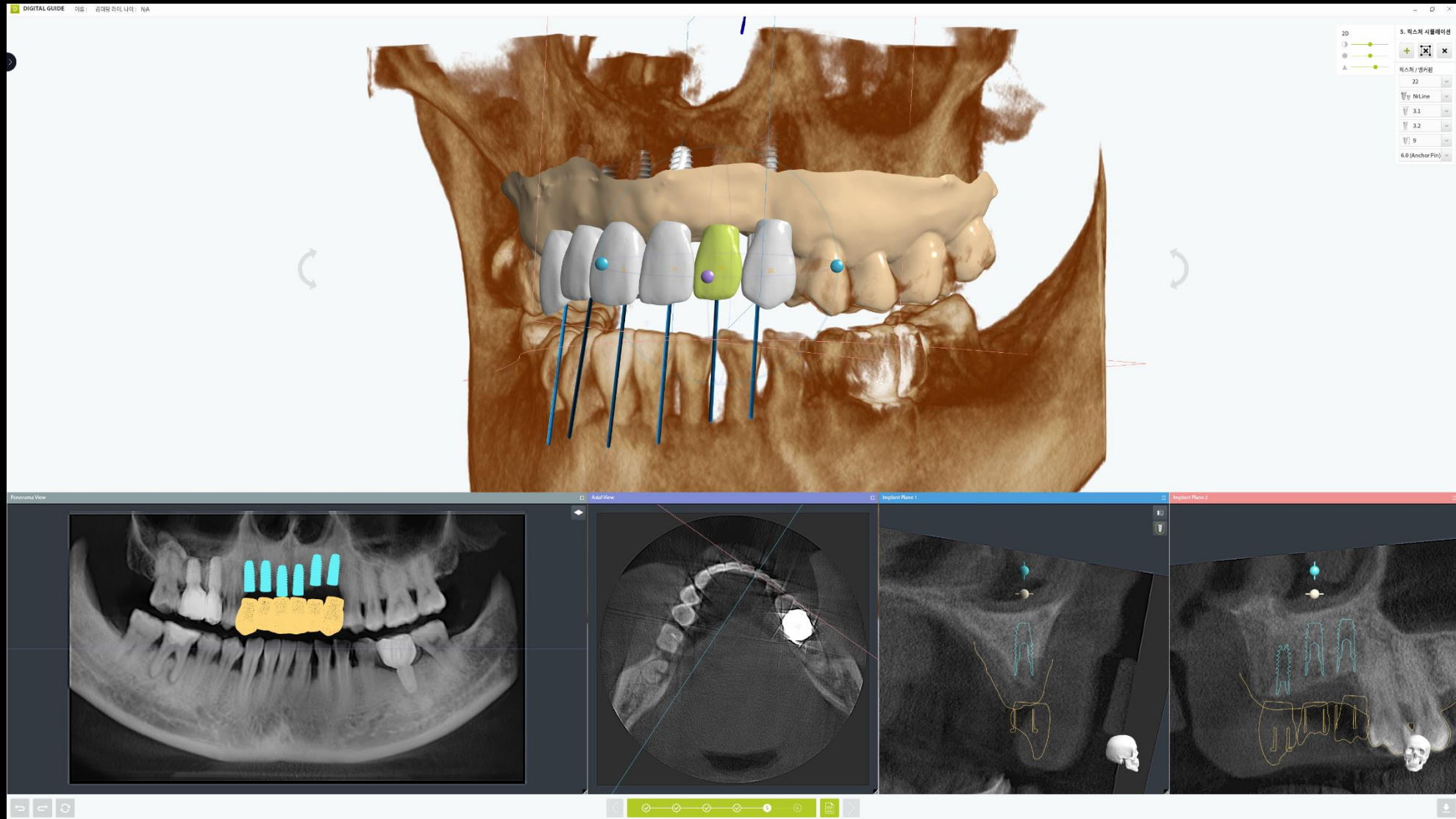
Digital Guide S/W (#11 Implant planning)



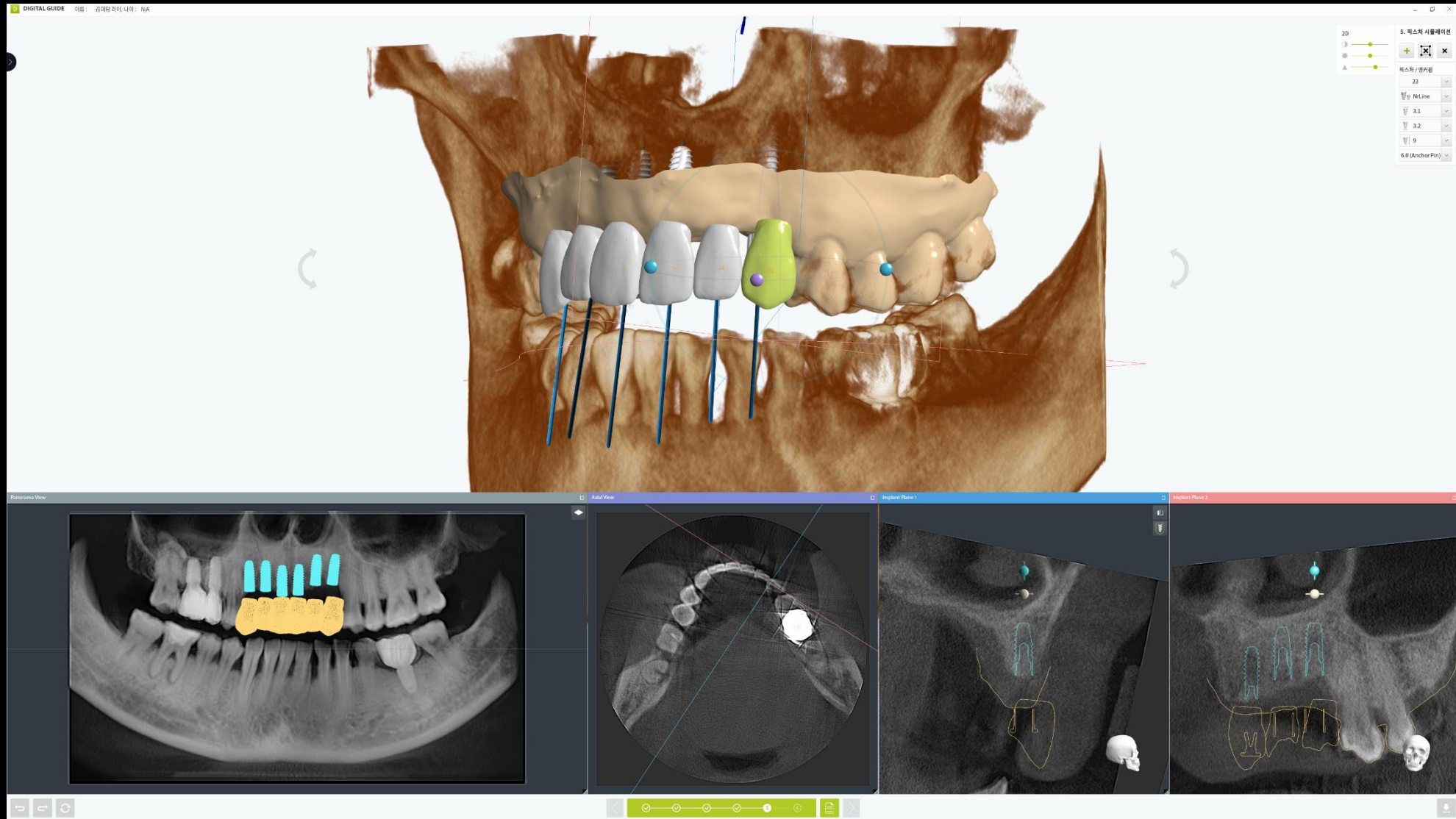
Digital Guide S/W (#21 Implant planning)



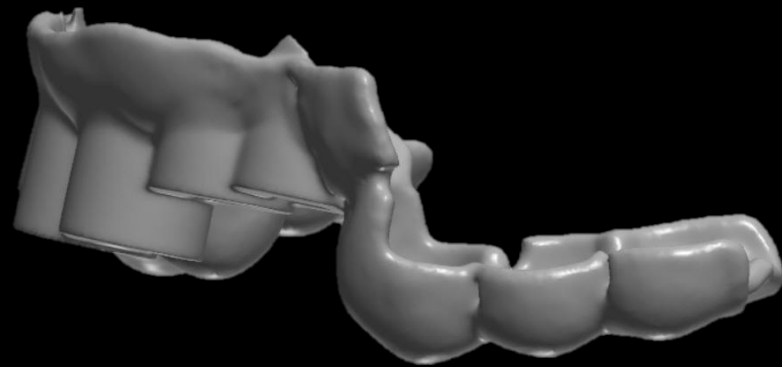
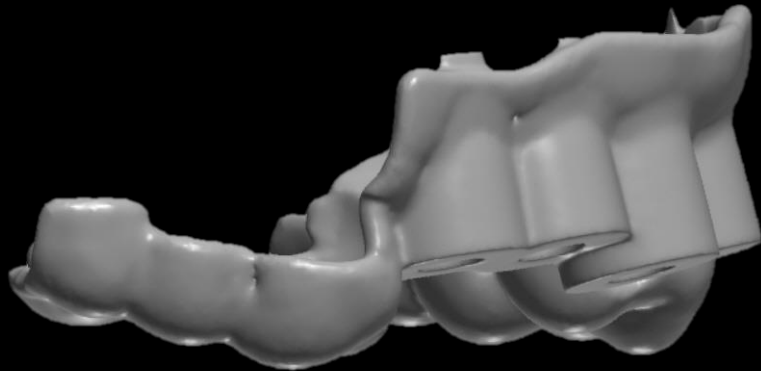
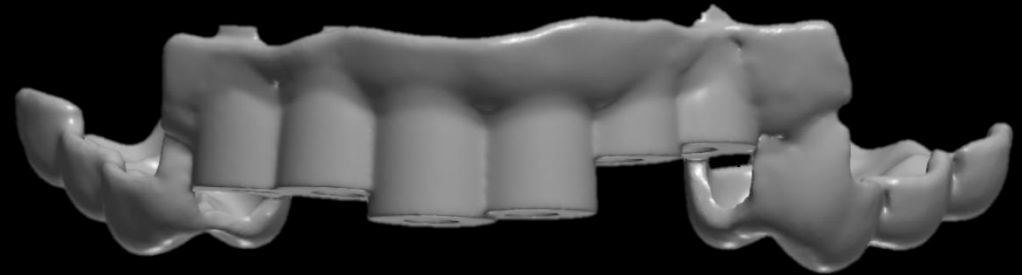
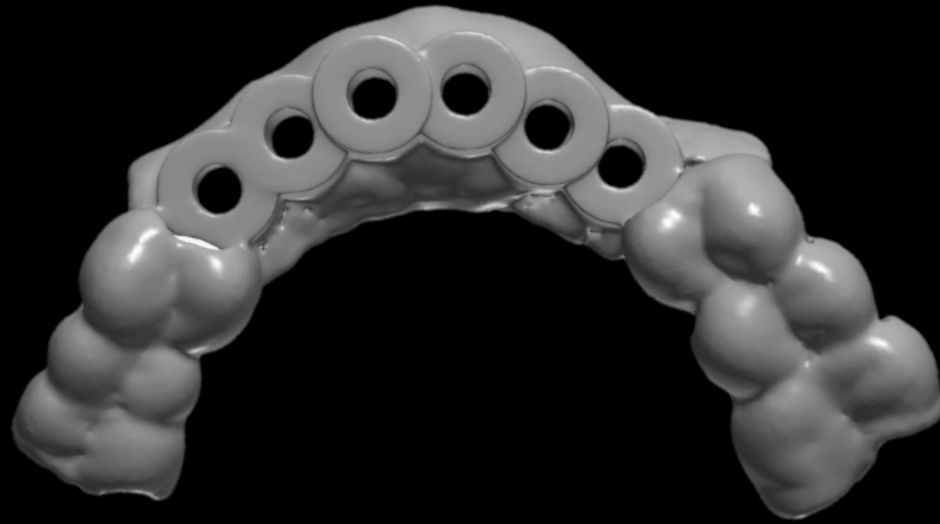
Digital Guide S/W (#22 Implant planning)



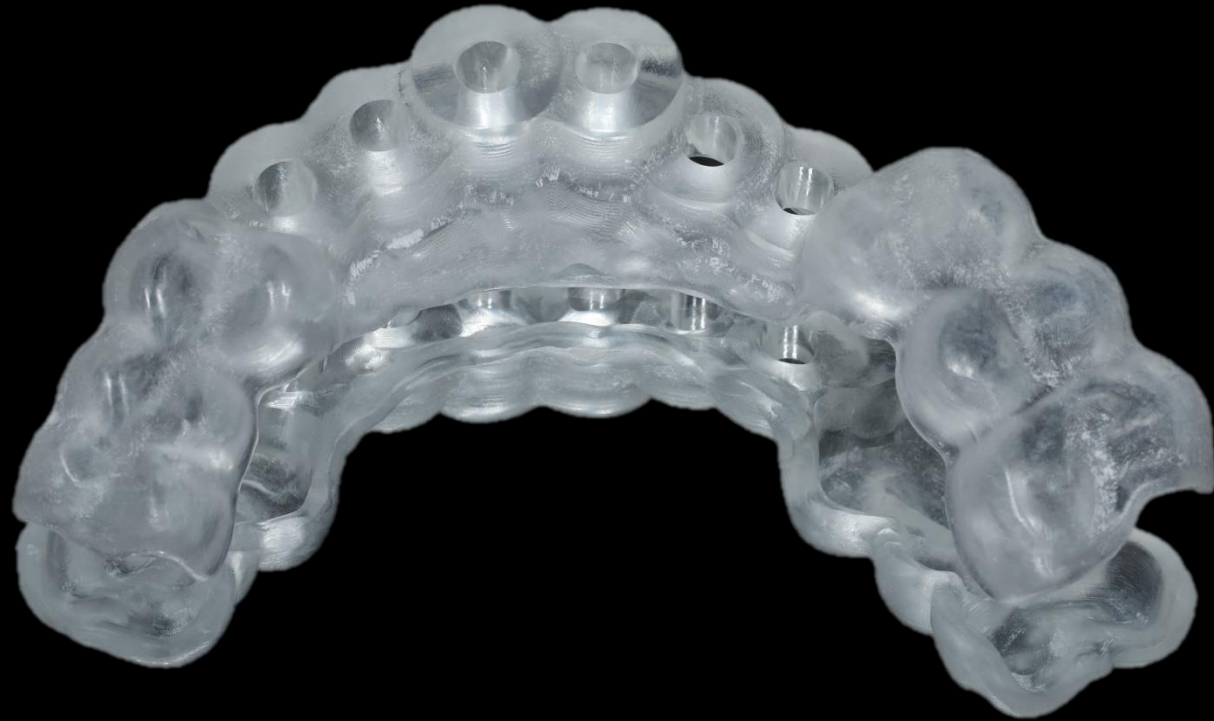
Digital Guide S/W (#23 Implant planning)



Digital Guide S/W (Stent Design)



Stent (Milling)

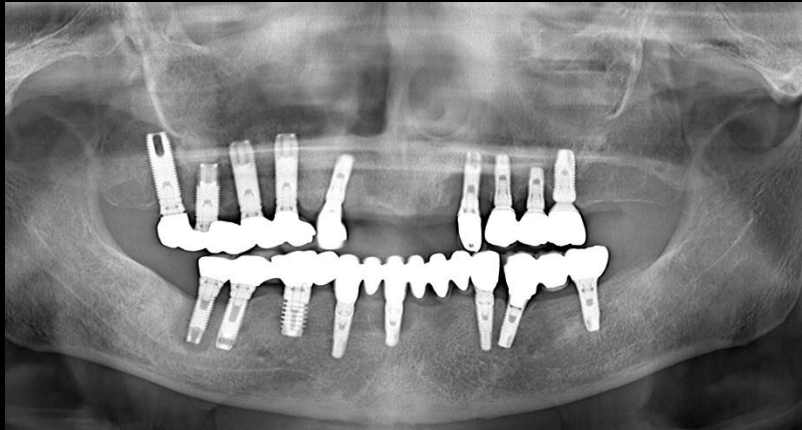


Stent adaptation Photo



Similar case presentation

- Contour augmentation on Anterior area



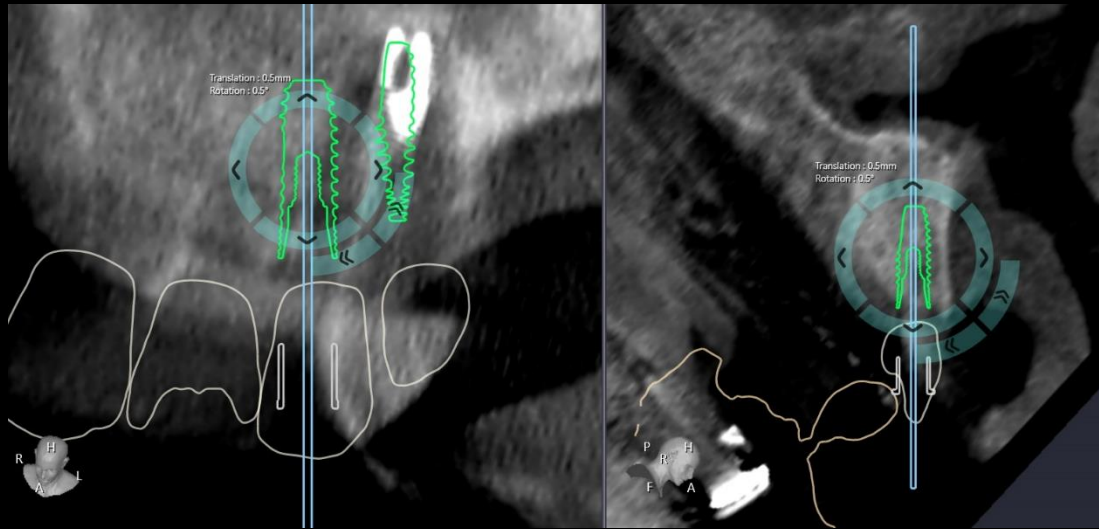
Pre-op (2017-12-18)



Final Prosthesis (2018-11-29)

Similar case presentation

- Contour augmentation on Anterior area



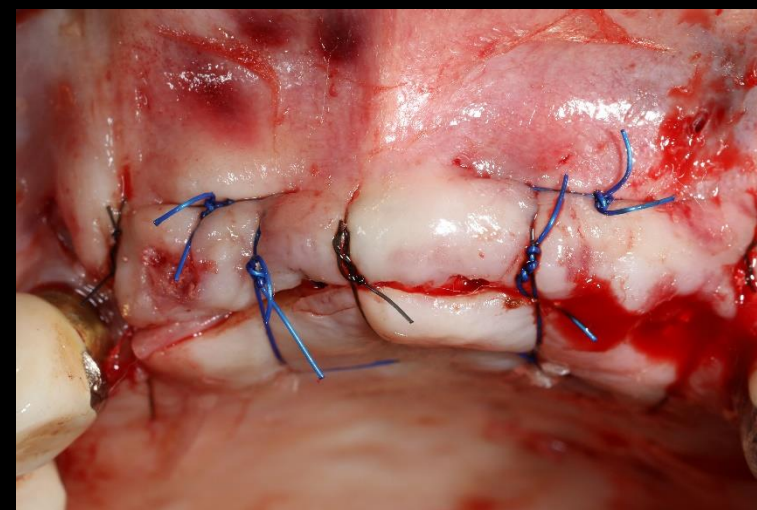
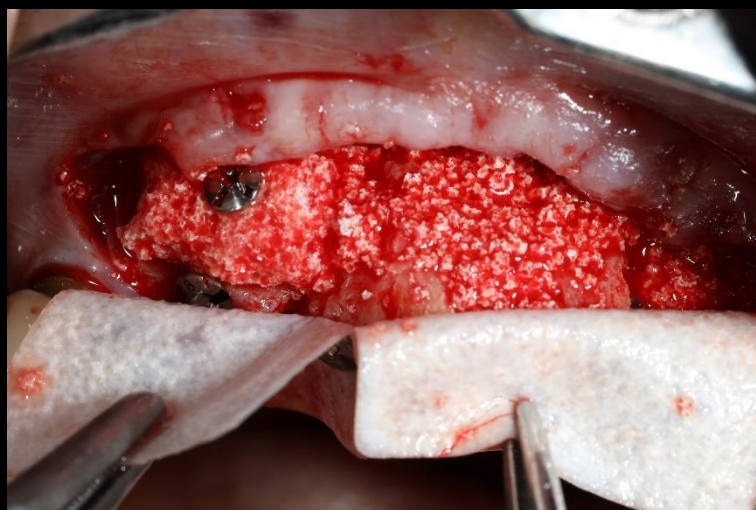
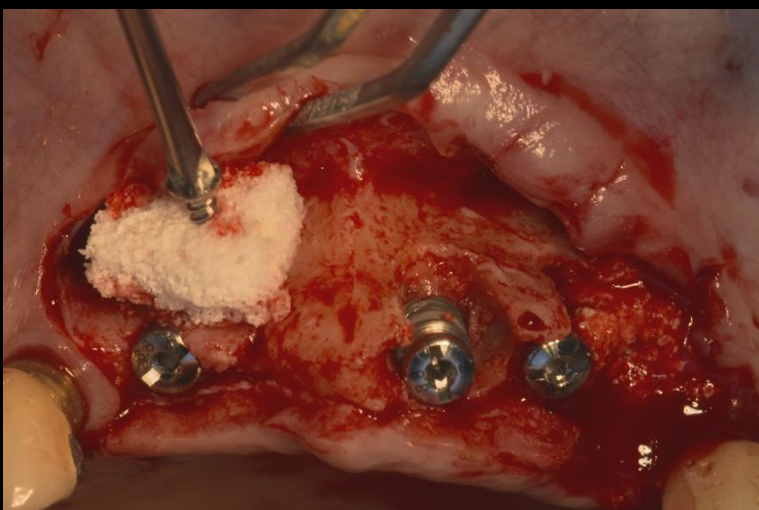
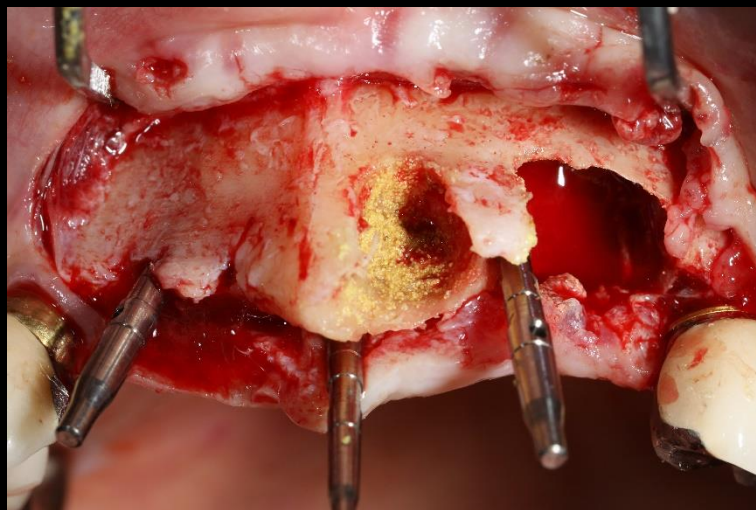
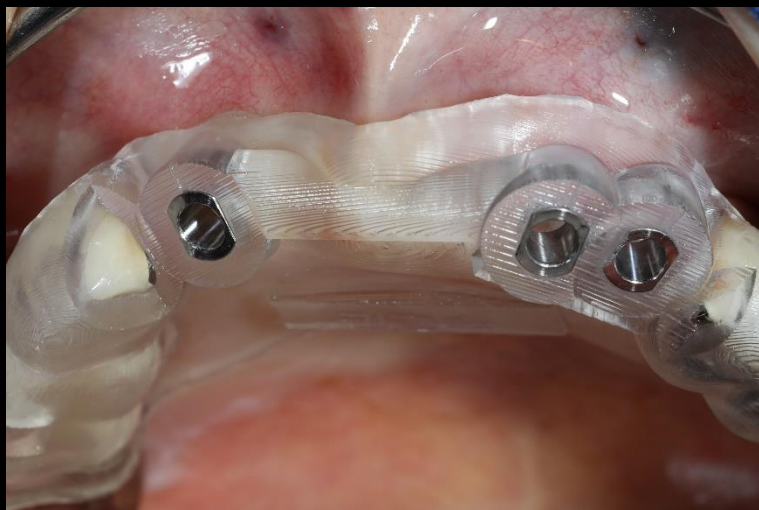
Implant Planning



Stent Design

Similar case presentation

- Contour augmentation on Anterior area



Similar case presentation

- Contour augmentation on Anterior area



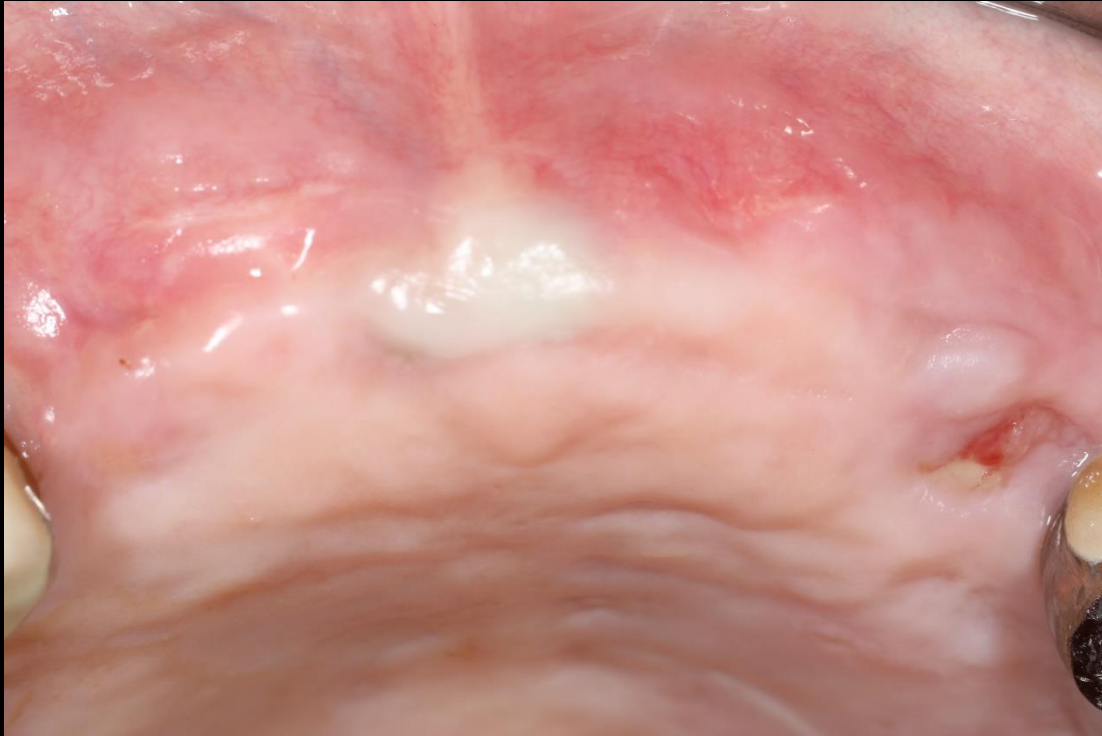
Healing : 3 weeks
(2018-04-11)



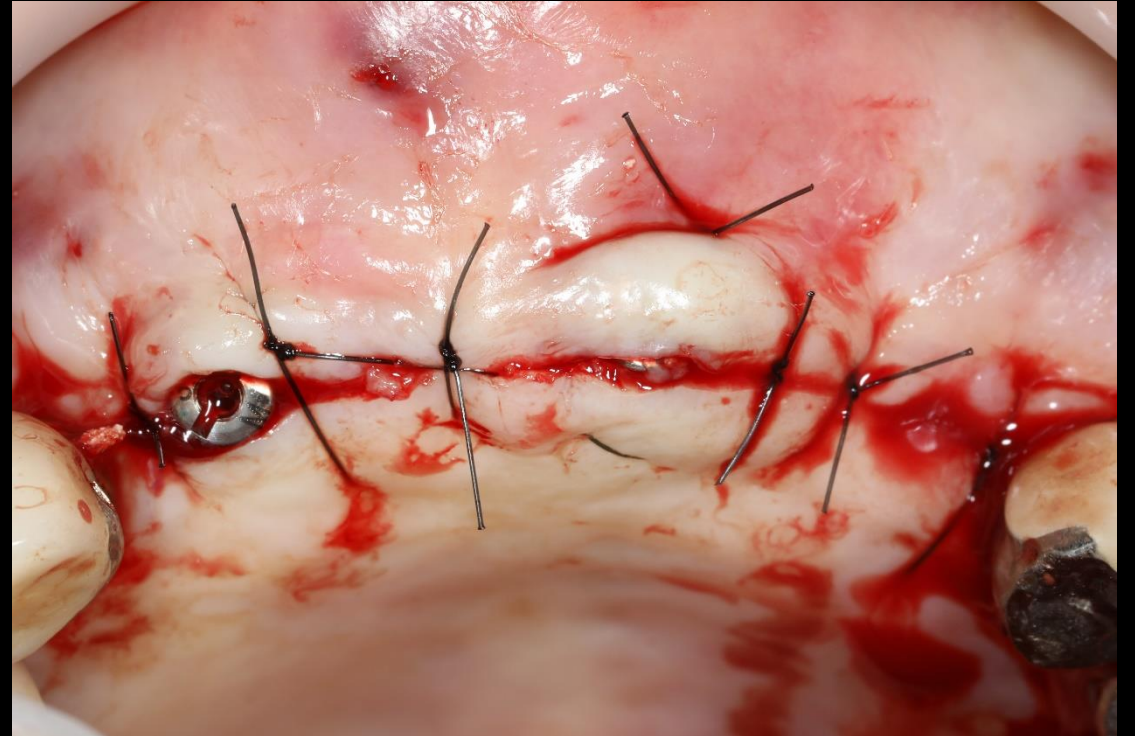
Healing : 1 month 2 weeks
(2018-05-10)

Similar case presentation

- Contour augmentation on Anterior area



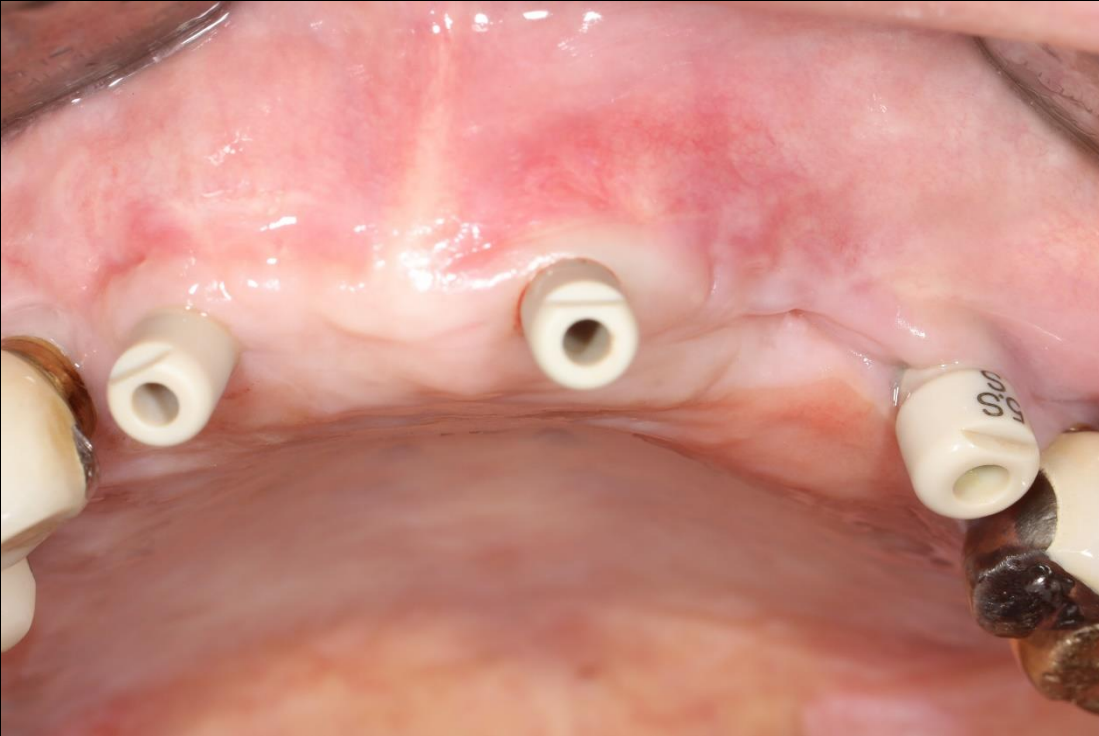
Healing : 4 months
(2018-07-23)



Second stage surgery
(2018-07-23)

Similar case presentation

- Contour augmentation on Anterior area



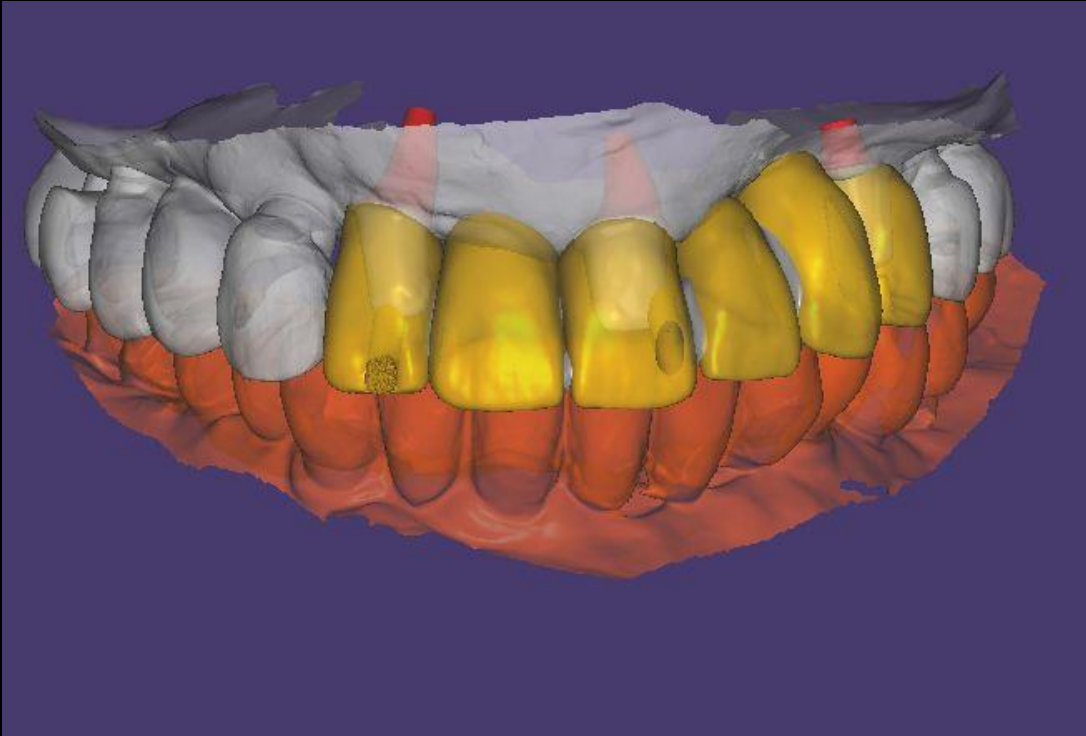
Scan Abutment connection
(2018-09-10)



Intra Oral Scanning

Similar case presentation

- Contour augmentation on Anterior area



CAD

(Customized abutment & Provisional restoration)

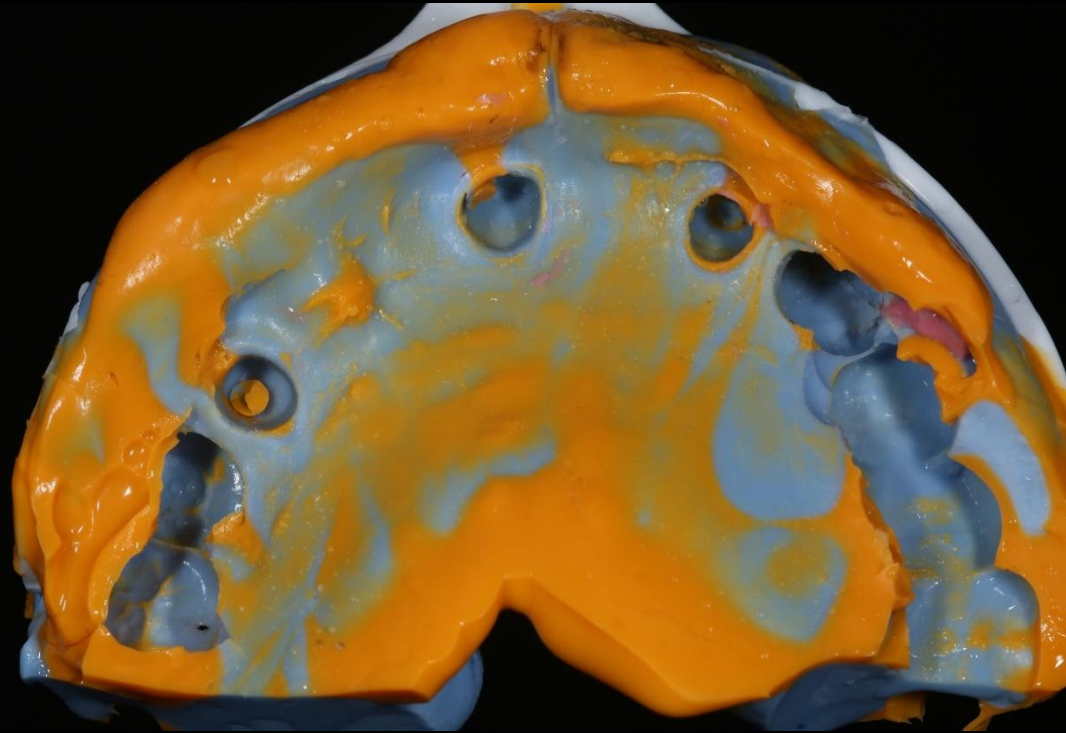


Provisional restoration

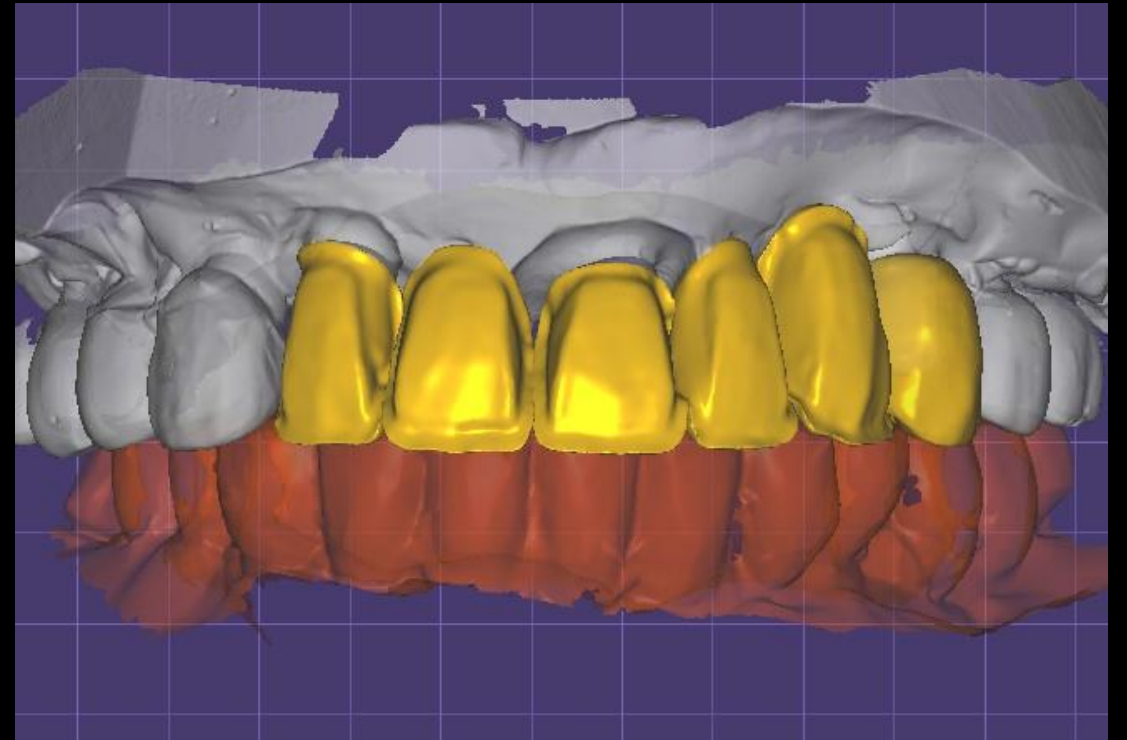
(2018-09-10)

Similar case presentation

- Contour augmentation on Anterior area



Impression Model



CAD
(Final prosthesis)

Similar case presentation

- Contour augmentation on Anterior area



Milling (Shine-T Block)



Final prosthesis
(2018-11-29)



[Case 2 Preview]

Implant Placement using Digital Guide
& Sinus elevation on Posterior area

Patient Information

Age : 59y

Sex : Male

Chief Complaint

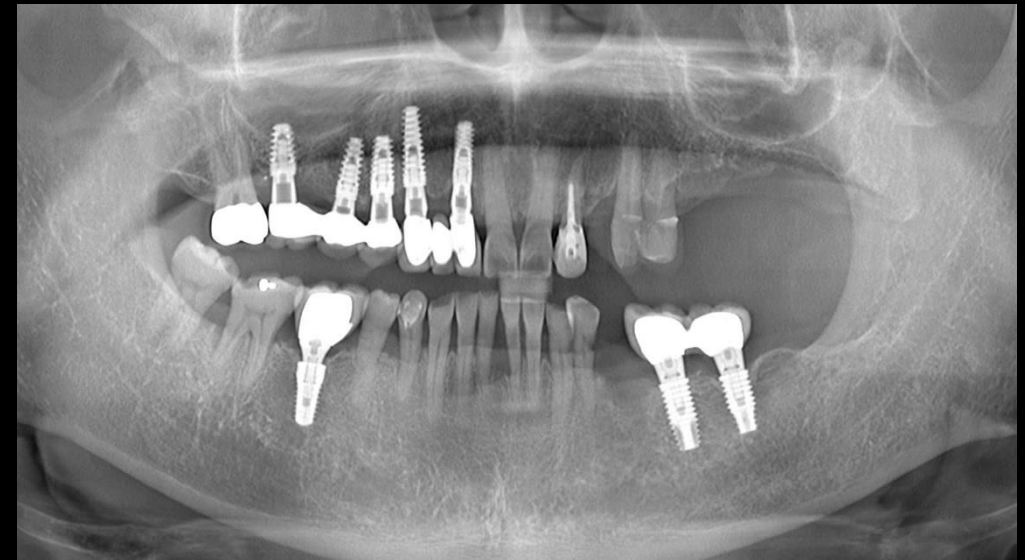
: "I want an implant surgery consultation"

Past Medical History

: N/S

Past Dental History

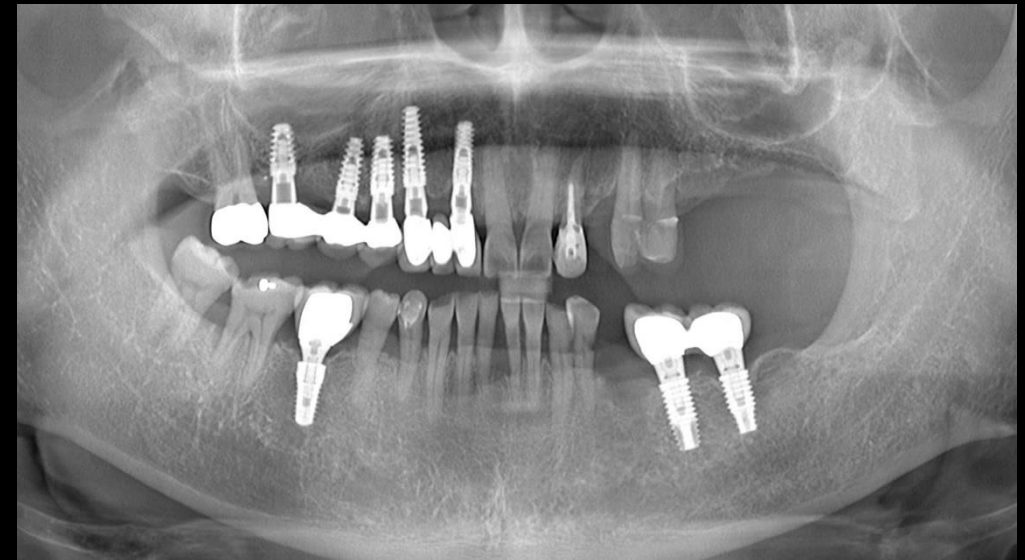
: Extraction #25--#28 (2020.04.15)



Patient Information

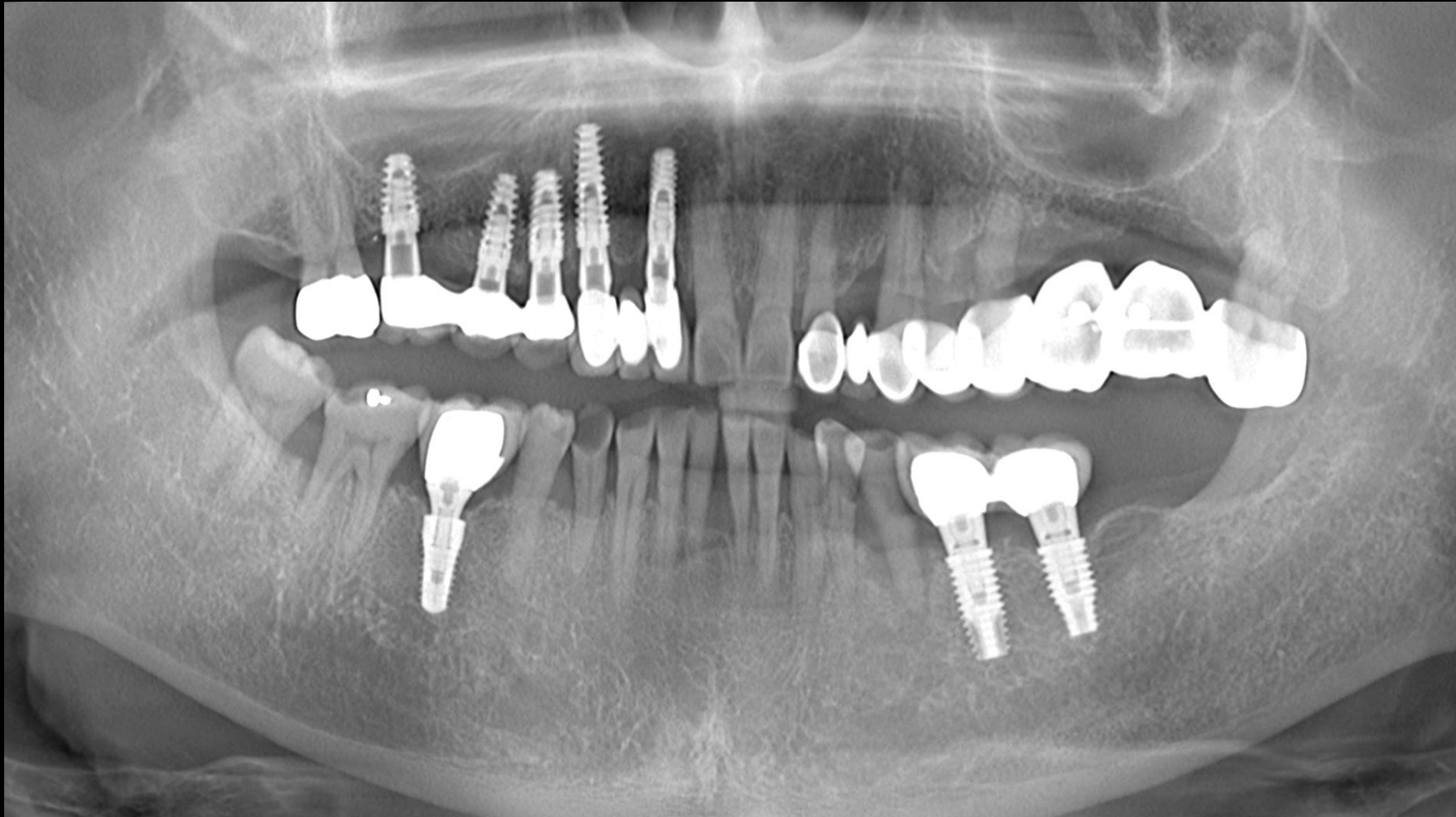
Surgery Plan

- #25,26 Implant Placement using Digital Guide
- Sinus elevation with Lateral approach (Using OSTEON™ 3 Collagen)
- Bone graft (Vertical augmentation)



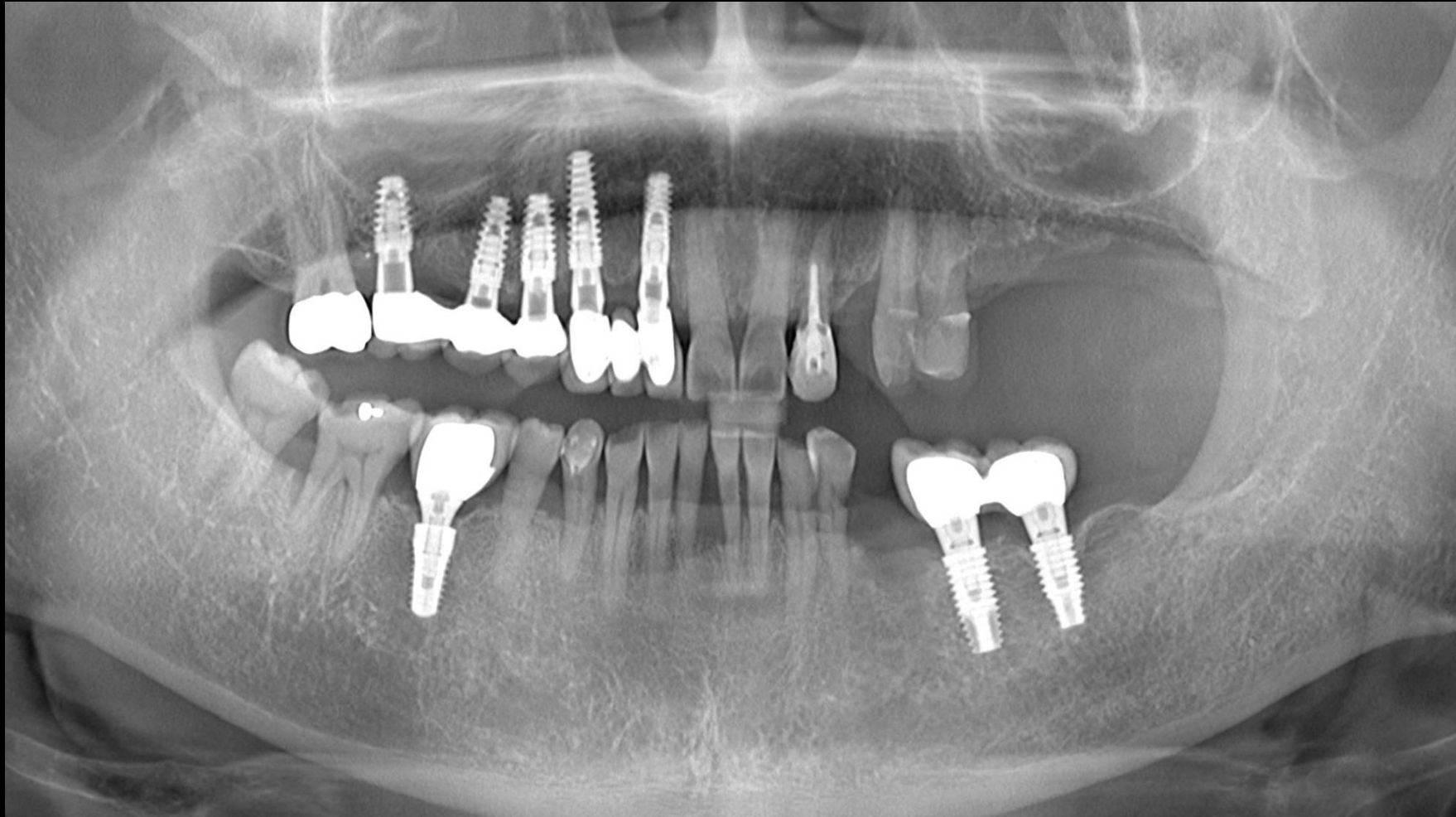
Pt. Kim (59y/M)

Oral exam (2019-04-13)



Pt. Kim (59y/M)

Pre-op (2020-04-23)



Initial Photo (2020-04-15)



Initial Photo (2020-04-15)



#22,23,24 Bridge removal & Temporary adaptation



Pre-op Photo (2020-04-23)



The screenshot displays the rainbow 3D Viewer 1.1.0 interface. The main window is divided into several sections:

- Left Panel:** Contains various toolbars including Patient Information, View Control, Endo, Layout, Annotation, Measurement, Capture Group, Transfer function, and Reset.
- Top Center:** Shows the current view mode as 'MPR' and 'CROSS'.
- Top Right:** A 'Curve Info' panel displays parameters: W 80mm, I 1.0mm, and T 1.0mm.
- Main Viewport:** Shows a 3D reconstruction of a dental arch with a yellow curve and red lines. A coordinate system with axes A, P, R, and L is visible.
- Bottom Left:** A panoramic radiograph view of the patient's teeth.
- Right Panel:** A grid of 9 'VIRTUAL CEPH' images, numbered 1 through 9, showing different cross-sectional views of the dental arch. The first image (1) is highlighted with a red border, and the second (2) with a blue border.

The Dentium logo is visible in the bottom left corner of the software interface.

The screenshot displays the 'rainbow 3D Viewer 1.1.0' software interface. The main window is divided into several sections:

- Top Bar:** Includes 'rainbow 3D Viewer 1.1.0', 'MPR', 'CROSS', 'VIRTUAL CEPH', 'TMJ', and 'REPORT' tabs.
- Left Sidebar:** Contains various tool panels: 'Patient Information', 'View Control', 'Project', 'Endo', 'Layout', 'Annotation', 'Measurement', 'Capture Group', 'Transfer function', and 'Reset'.
- Main Viewport:** Shows a 3D model of a patient's teeth with a yellow curve and red lines. A coordinate system (A, P, R, L) is visible at the bottom right of the main view.
- Curve Info Panel:** Located at the top right of the main view, showing 'W 80mm', 'I 1.0mm', and 'T 1.0mm'.
- Virtual Cephalometric (Virt Ceph) Grid:** A 3x3 grid of 9 images (numbered 1-9) showing different views of the teeth. Image 5 is highlighted with a green border and contains a measurement: 'Dis : 5.27 mm'.
- Bottom Left Viewport:** Shows a panoramic view of the teeth with a red crosshair.
- Bottom Bar:** Features the 'Dentium' logo and the text 'For Dentists By Dentists'.

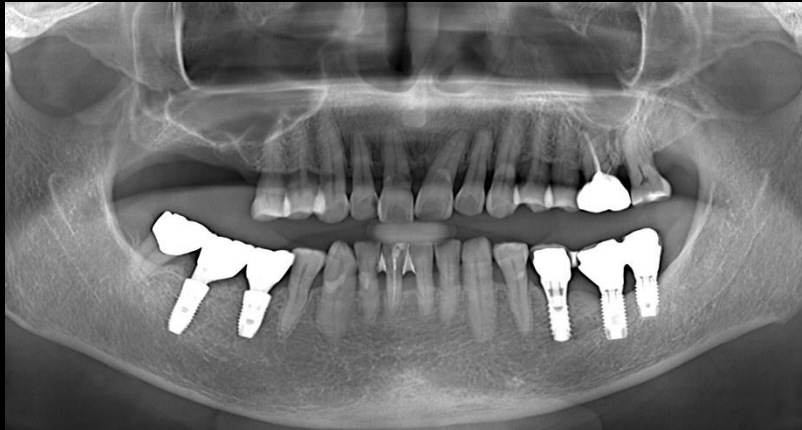
The screenshot displays the rainbow 3D Viewer 1.1.0 software interface. The main window shows a 3D model of a maxilla with endosseous implants. A yellow curve is drawn along the implant trajectories, and a grid of blue lines is overlaid on the model. The interface includes a left sidebar with various tool panels: Patient Information, View Control, Endo, Layout, Annotation, Measurement, Capture Group, Transfer function, and Reset. The top of the interface shows the software name, the current view (MPR), and the 'CROSS' mode. The right side of the interface is divided into three main sections: VIRTUAL CEPH, TMJ, and REPORT. The VIRTUAL CEPH section shows a grid of 9 cross-sectional views of the TMJ, numbered 1 through 9. A measurement of 2.84 mm is displayed in green text in the center of the grid. The TMJ section shows a grid of 9 cross-sectional views of the TMJ, numbered 1 through 9. The REPORT section is currently empty. The bottom of the interface shows a panoramic radiograph of the patient's teeth. The Dentium logo is visible in the bottom left corner.

Intra Oral Scanning



Similar case presentation

- Sinus elevation with Lateral approach



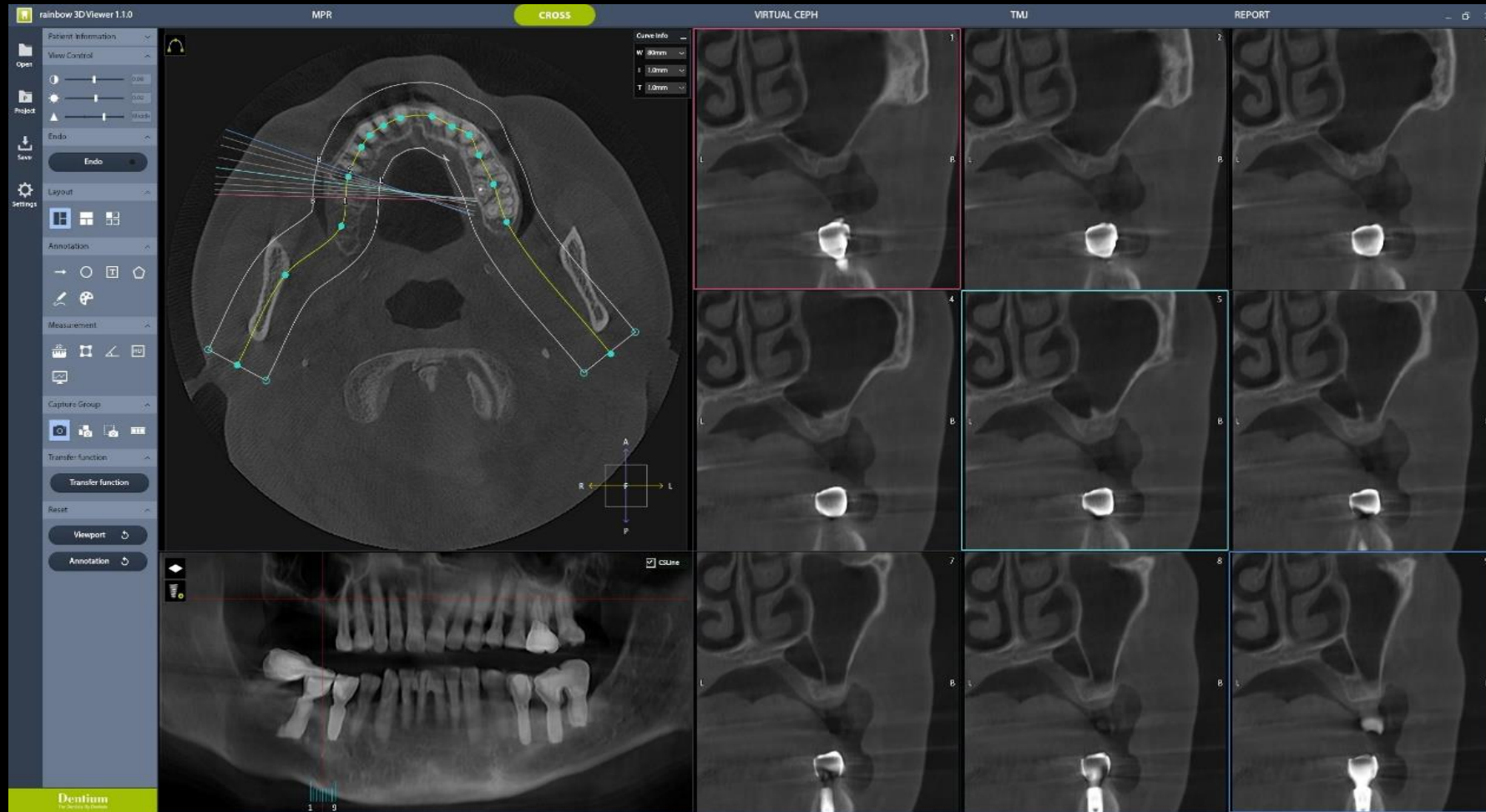
Pre-op (2018-06-11)



Final Prosthesis (2019-11-12)

Similar case presentation

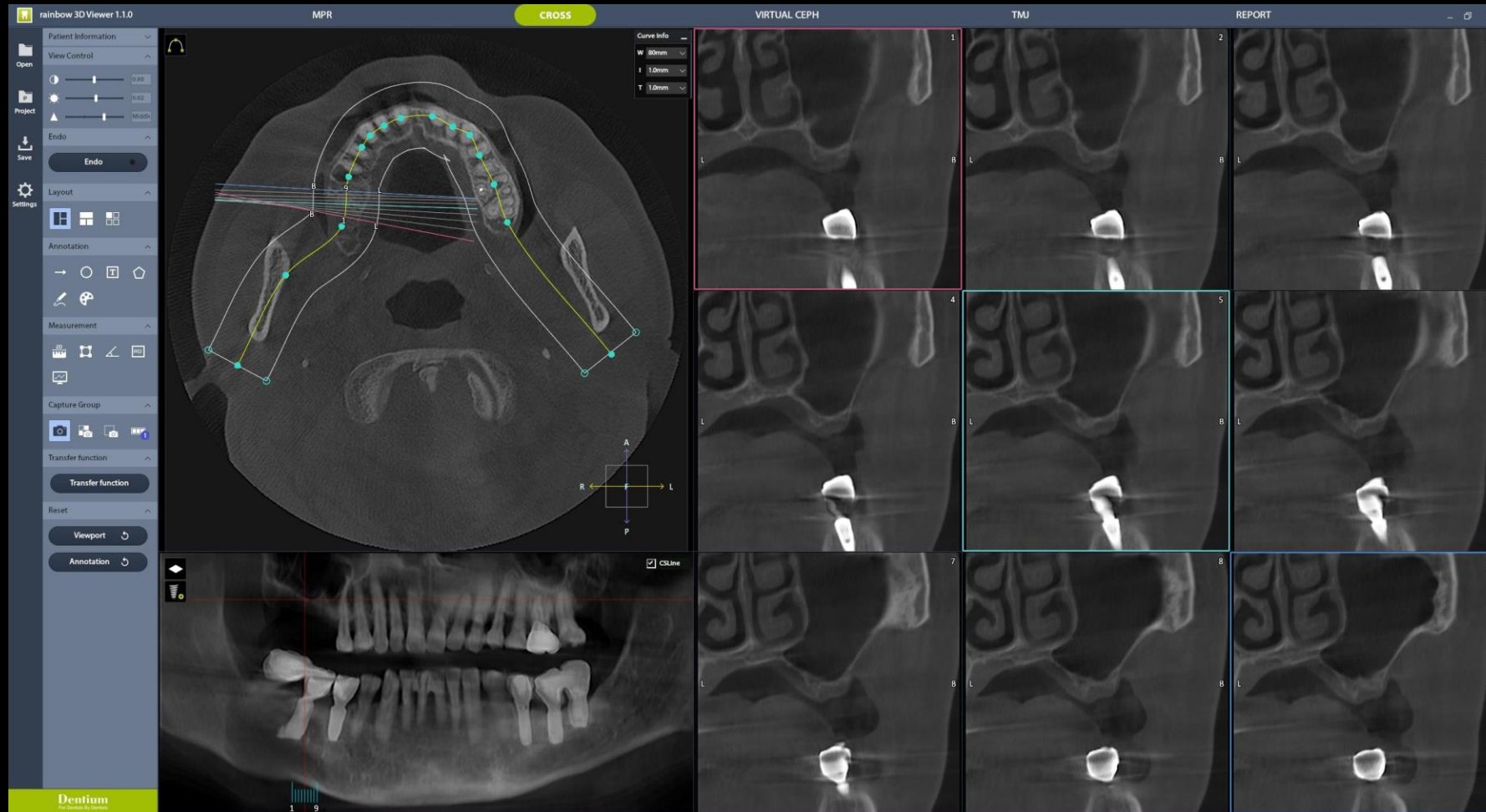
- Sinus elevation with Lateral approach



#16 Pre-op

Similar case presentation

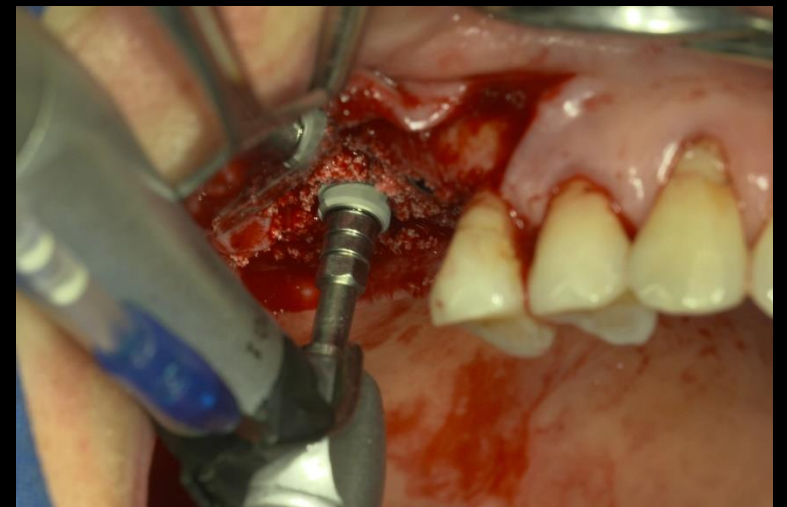
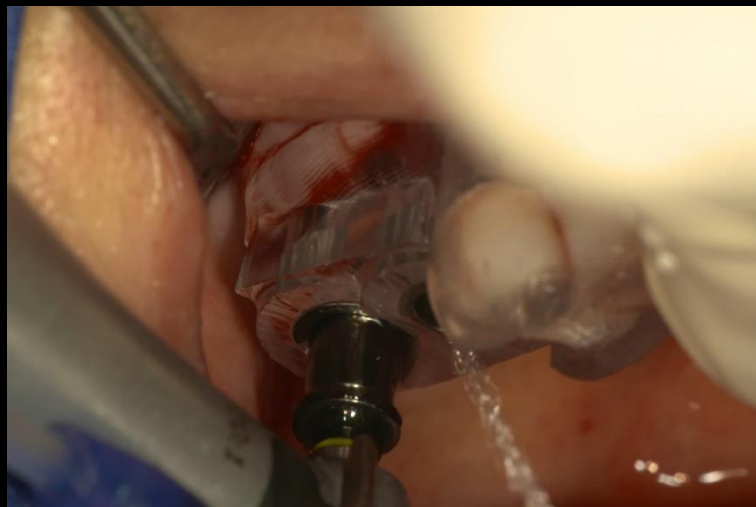
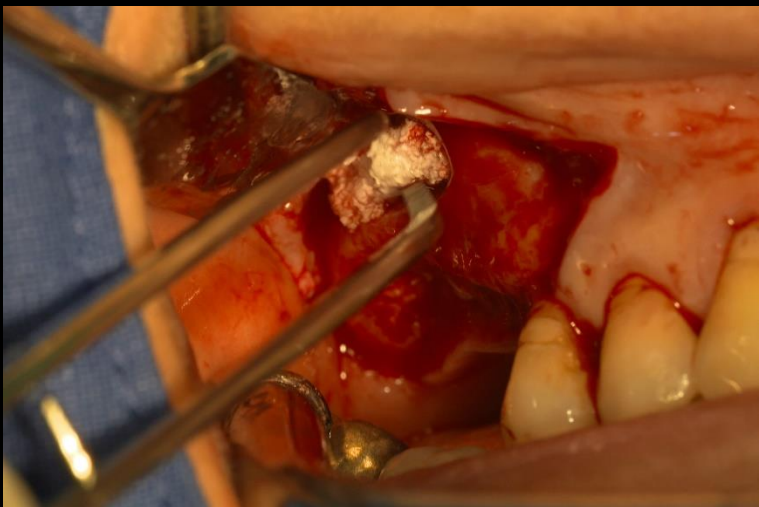
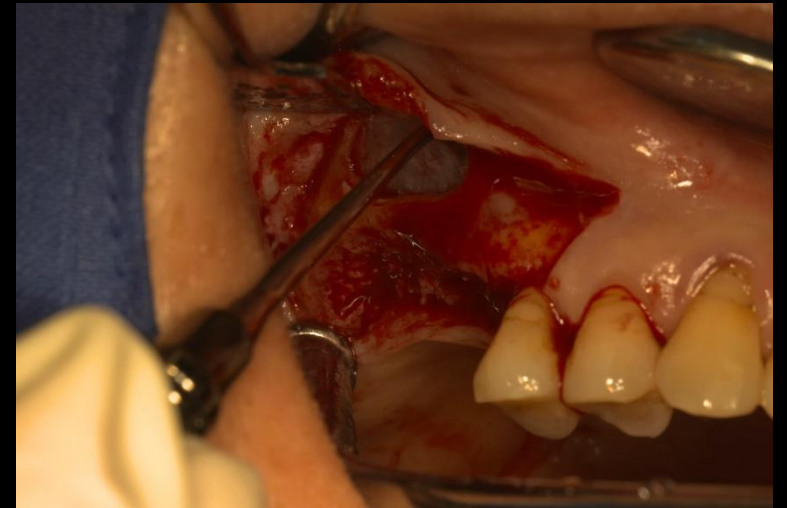
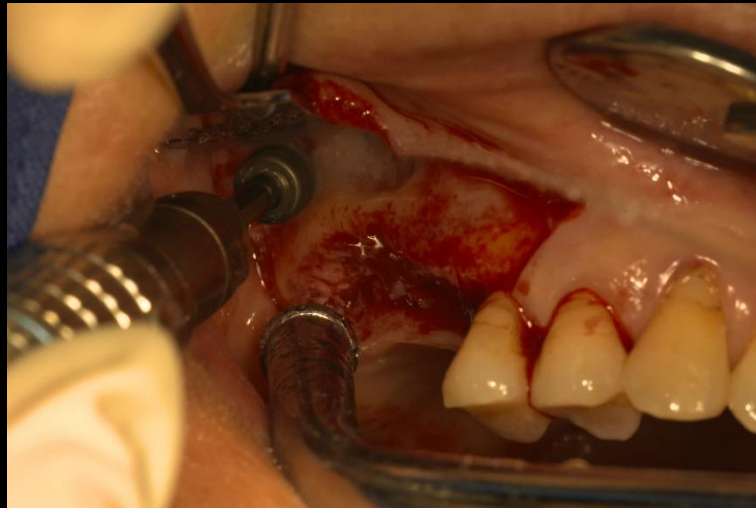
- Sinus elevation with Lateral approach



#17 Pre-op

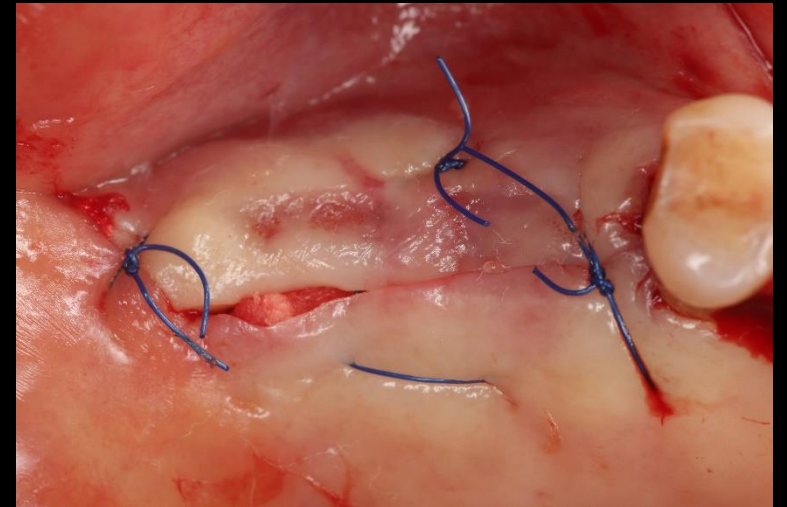
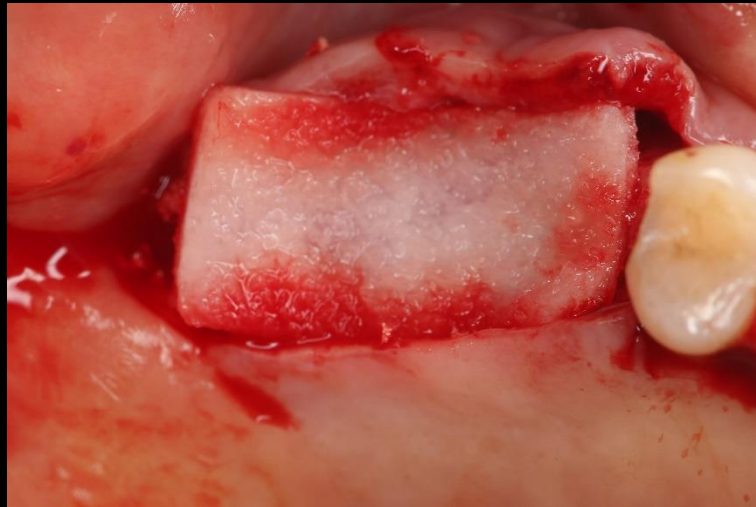
Similar case presentation

- Sinus elevation with Lateral approach



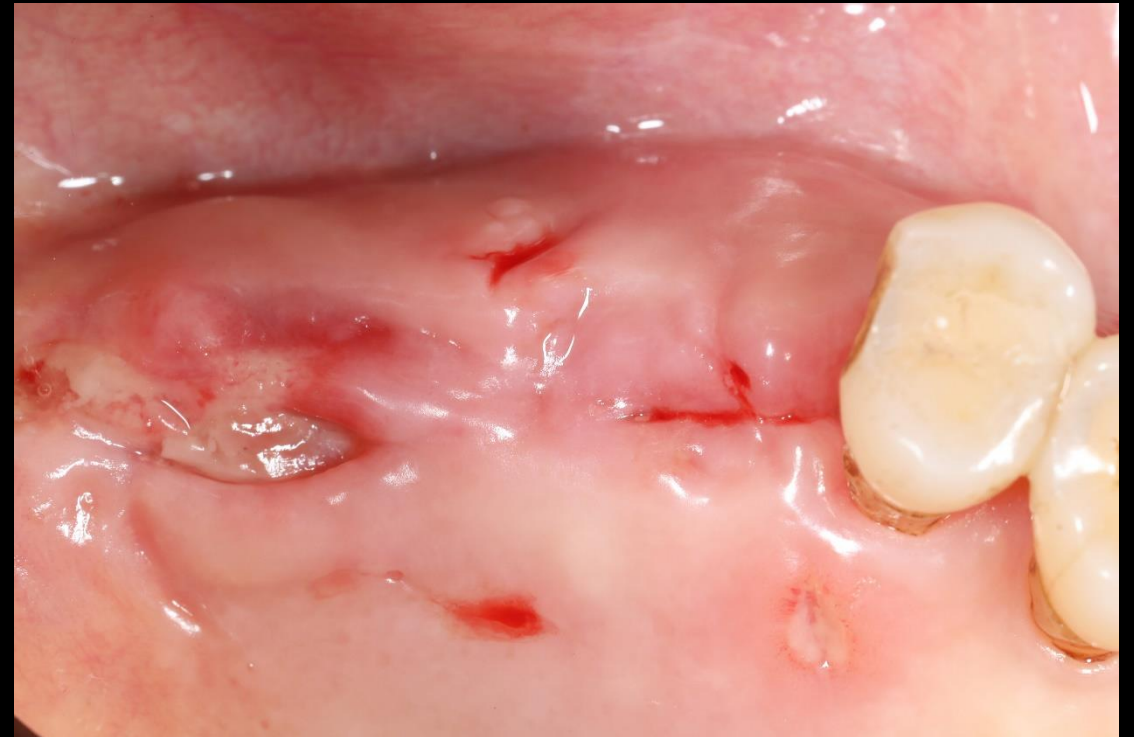
Similar case presentation

- Sinus elevation with Lateral approach



Similar case presentation

- Sinus elevation with Lateral approach



Healing : 1 weeks
(2018-06-18)

Similar case presentation

- Sinus elevation with Lateral approach



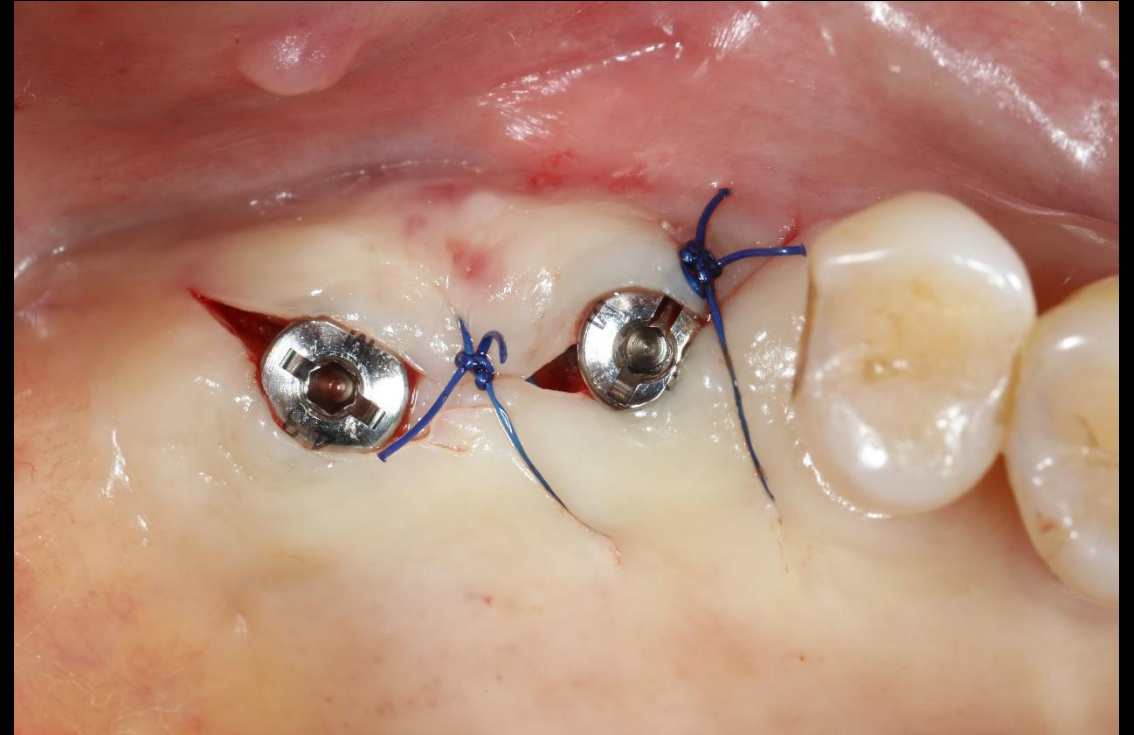
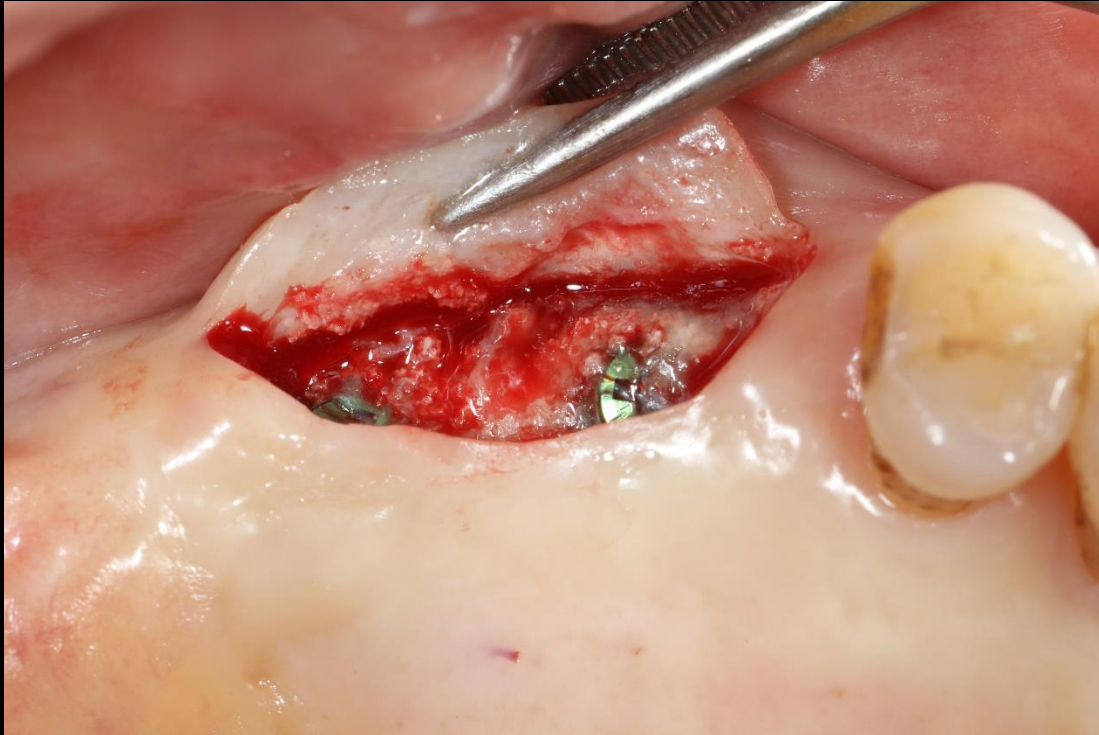
Healing : 1 month
(2018-07-16)



Healing : 6 months
(2018-12-20)

Similar case presentation

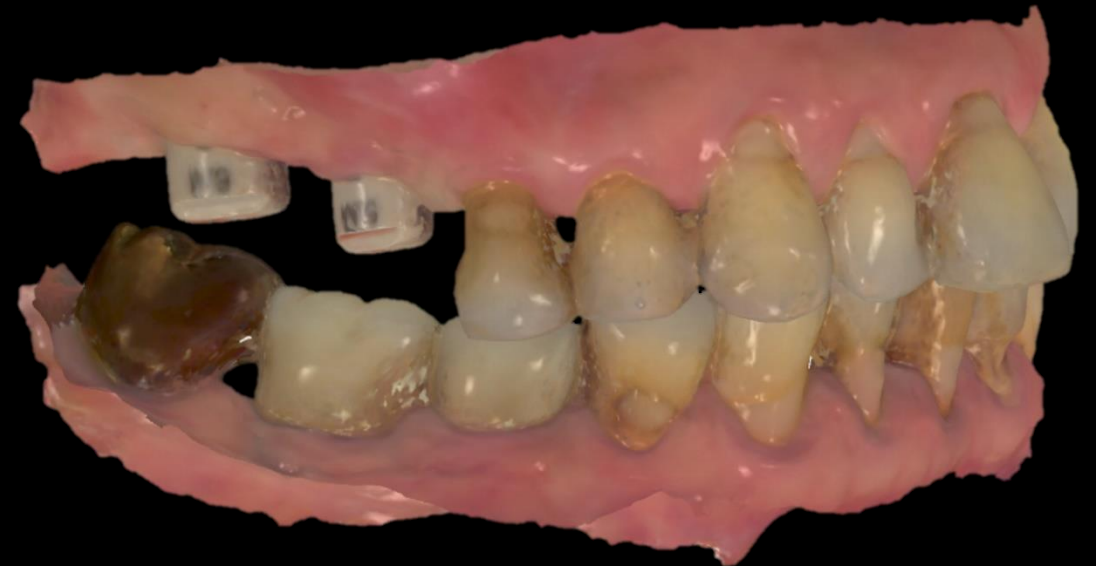
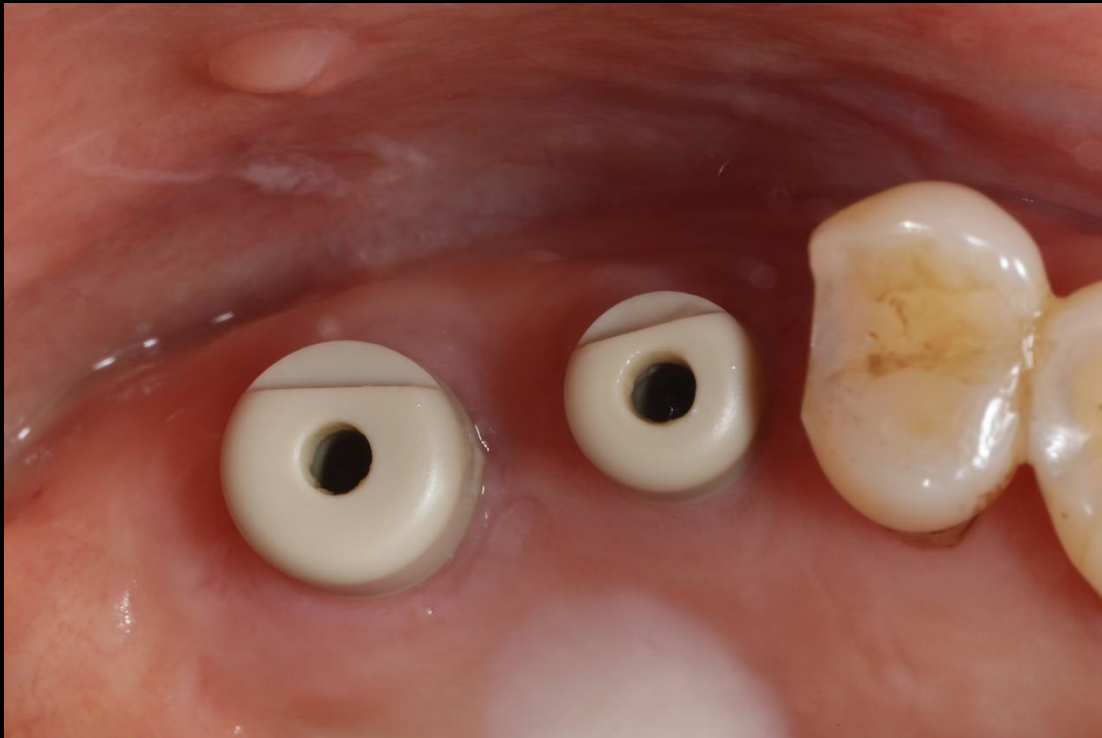
- Sinus elevation with Lateral approach



Second stage surgery
(2018-12-20)

Similar case presentation

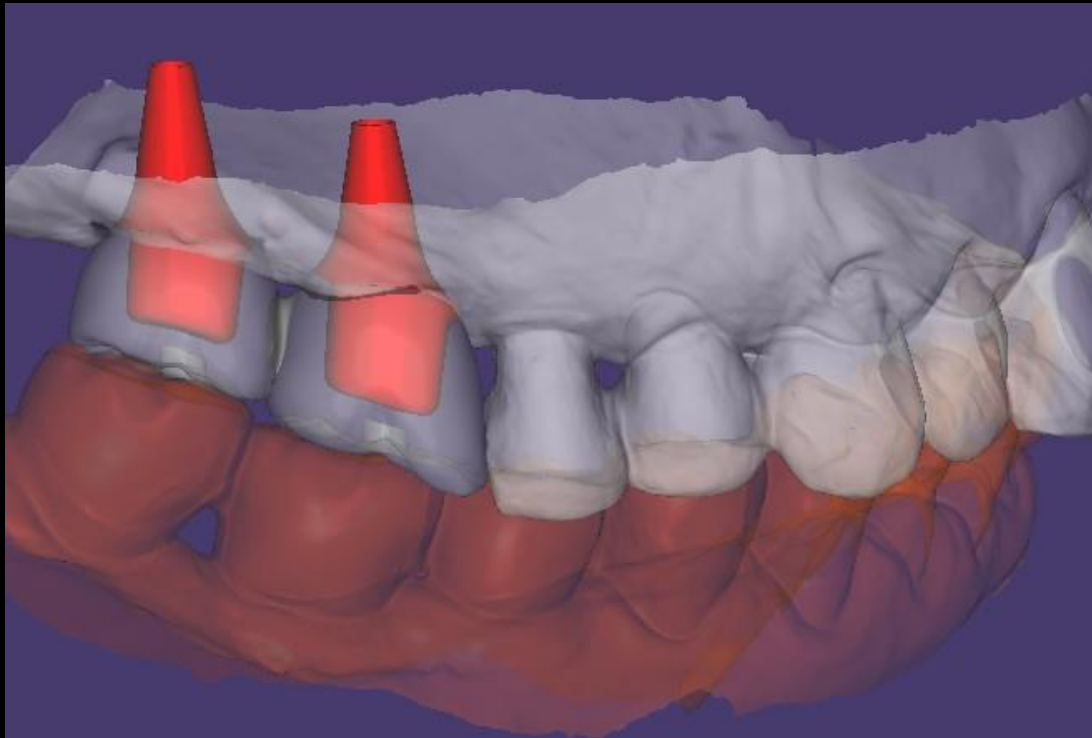
- Sinus elevation with Lateral approach



Intra Oral Scanning

Similar case presentation

- Sinus elevation with Lateral approach



CAD
(Customized abutment / Provisional restoration)



Customized abutment
& Provisional restoration

Similar case presentation

- Sinus elevation with Lateral approach



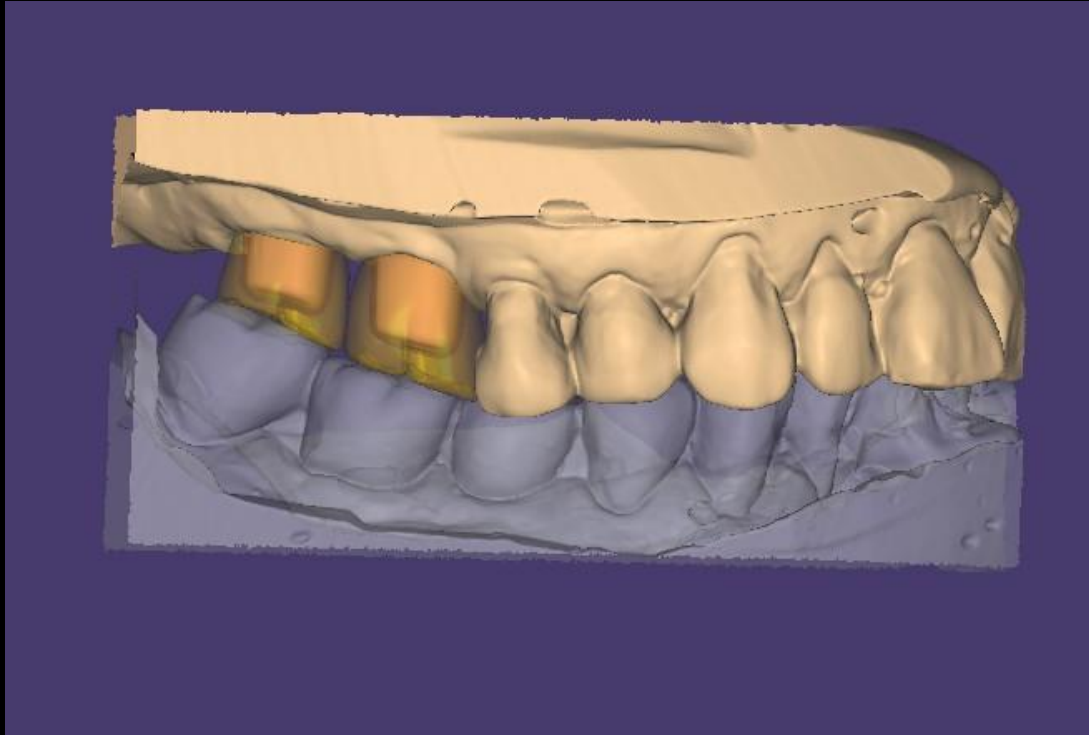
Provisional restoration
(2019-01-21)



Impression

Similar case presentation

- Sinus elevation with Lateral approach



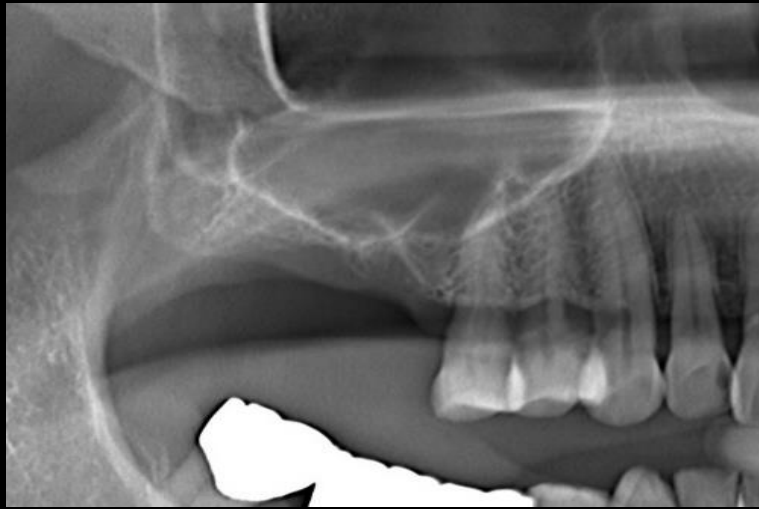
CAD (Final prosthesis)



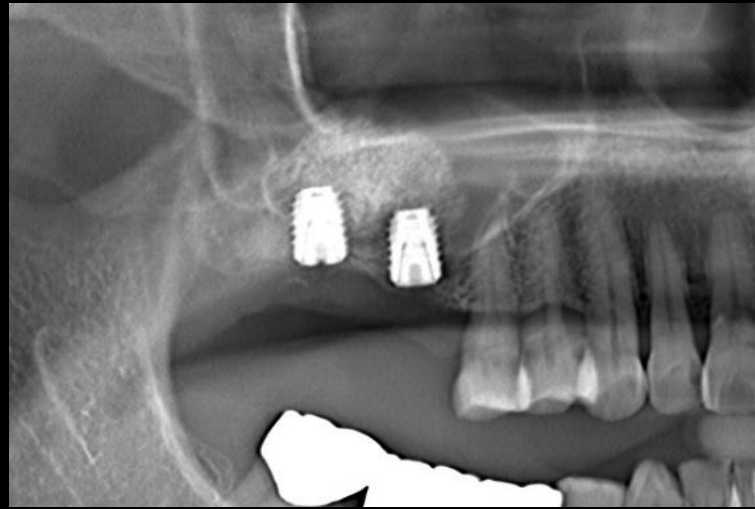
Final prosthesis
(2019-11-12)

Similar case presentation

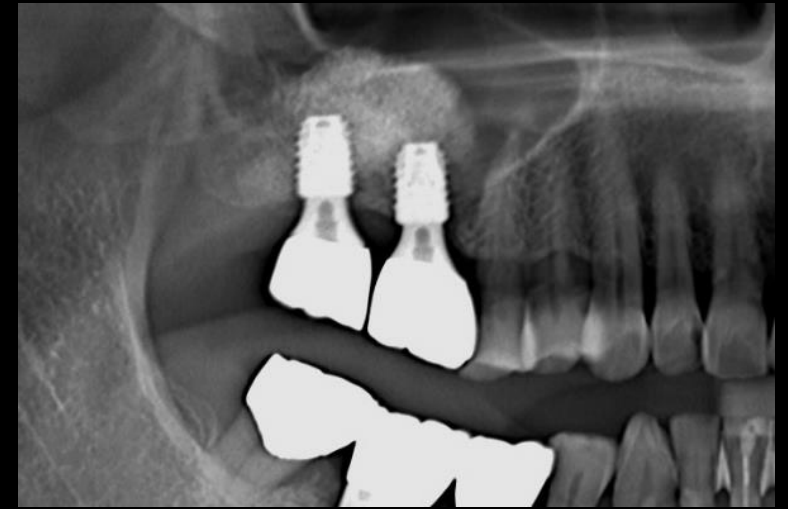
- Sinus elevation with Lateral approach



Pre-op



Post-op



Final prosthesis