



# LIVE Surgery

Dr. Root

2020.01.03 (Fri.)



## [Case Preview]

Both maxillary Sinus elevation  
& Implantation using Digital Guide

# Patient Information

**Age** : 59y

**Sex** : Male

## Chief Complaint

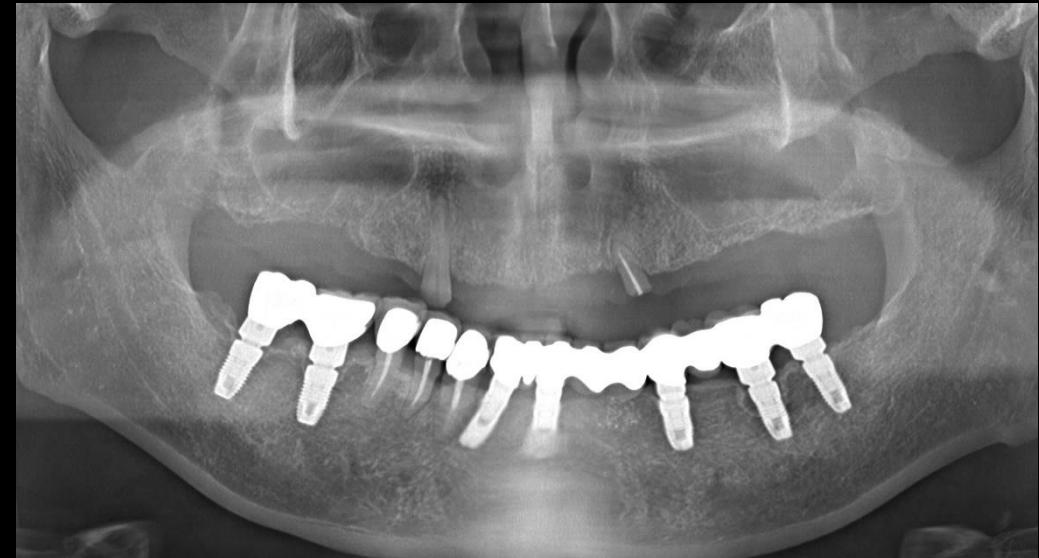
: "#13, #23 Tooth Fracture.  
I want an implant surgery consultation"

## Past Medical History

: Hypertension (Do not take medicine)

## Past Dental History

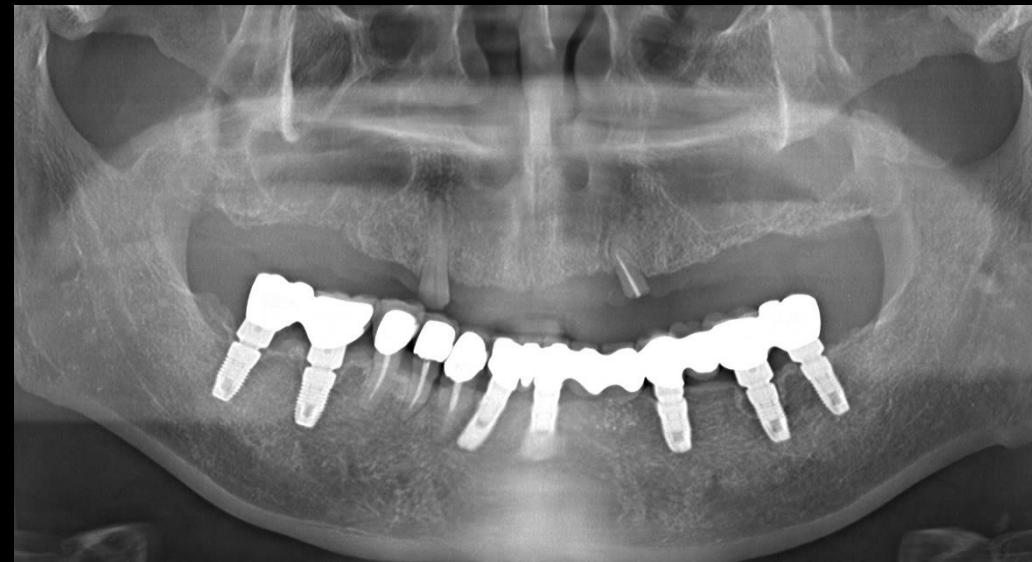
: Extraction Posterior tooth (2002.03.18)  
Anterior : #13=#23 Bridge (2002.05~)  
Posterior : Partial Denture (2002.05~)



# Patient Information

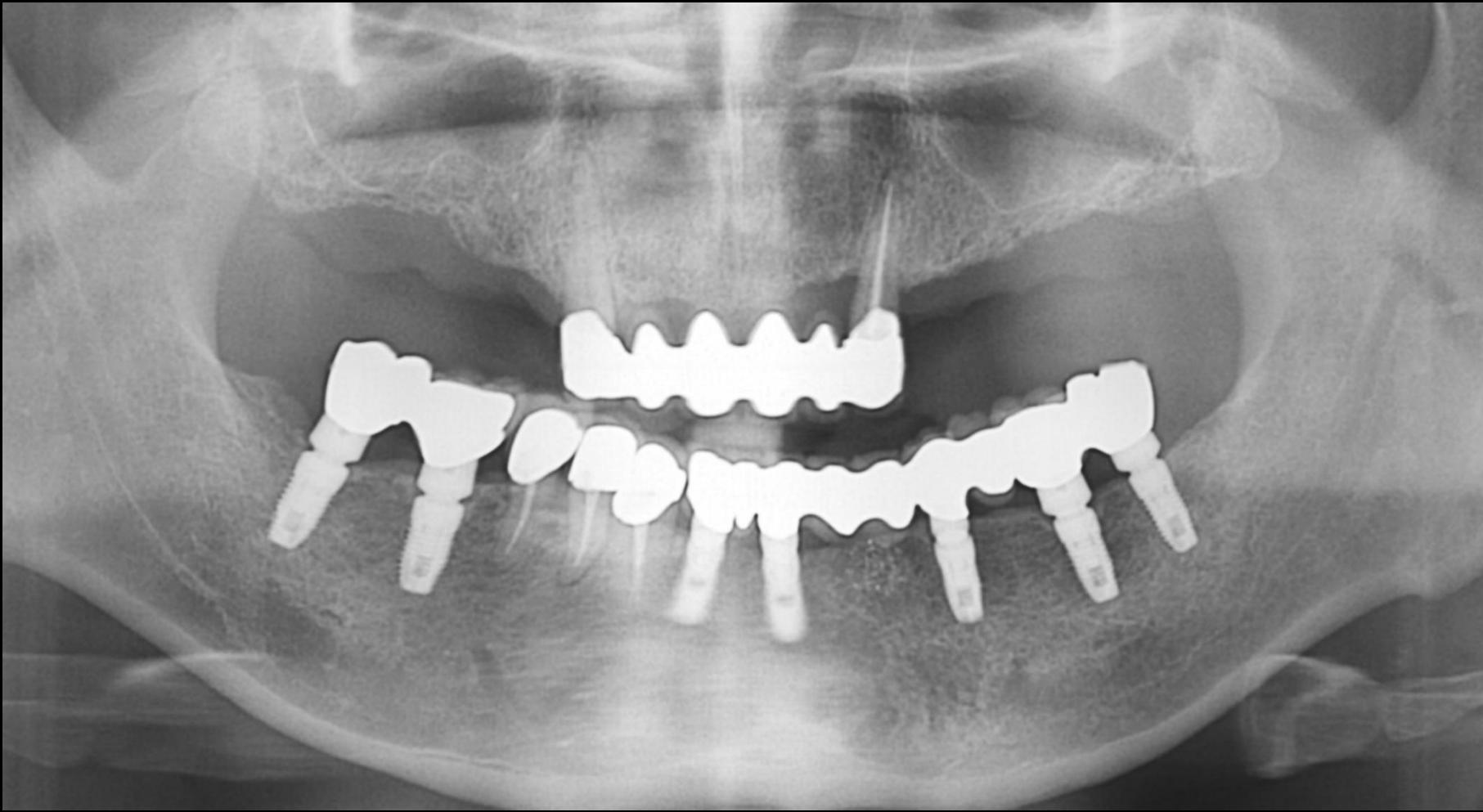
## Surgery Plan

- #13,23 Root rest Extraction
- 8 Fixture installation using Milling Digital Guide (#13,14,15,17,23,24,25,27)
- #10 Sinus elevation with Lateral approach
- #20 Removal of Mucocele & Simple Sinus elevation



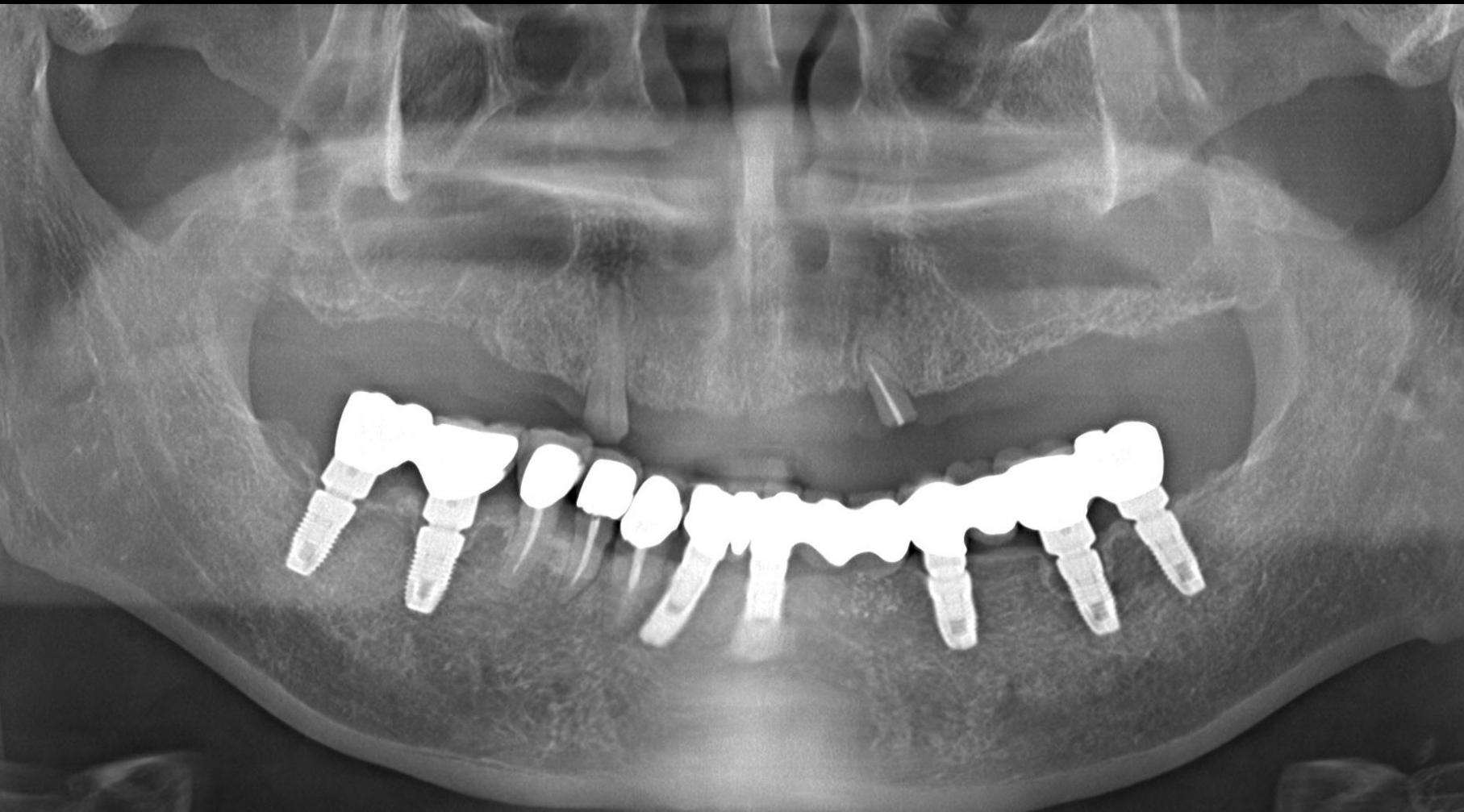
Pt. Kim (59y/M)

Oral exam (2011-02-23)



Pt. Kim (59y/M)

Pre-op (2019-12-12)



Initial Photo



Initial Photo



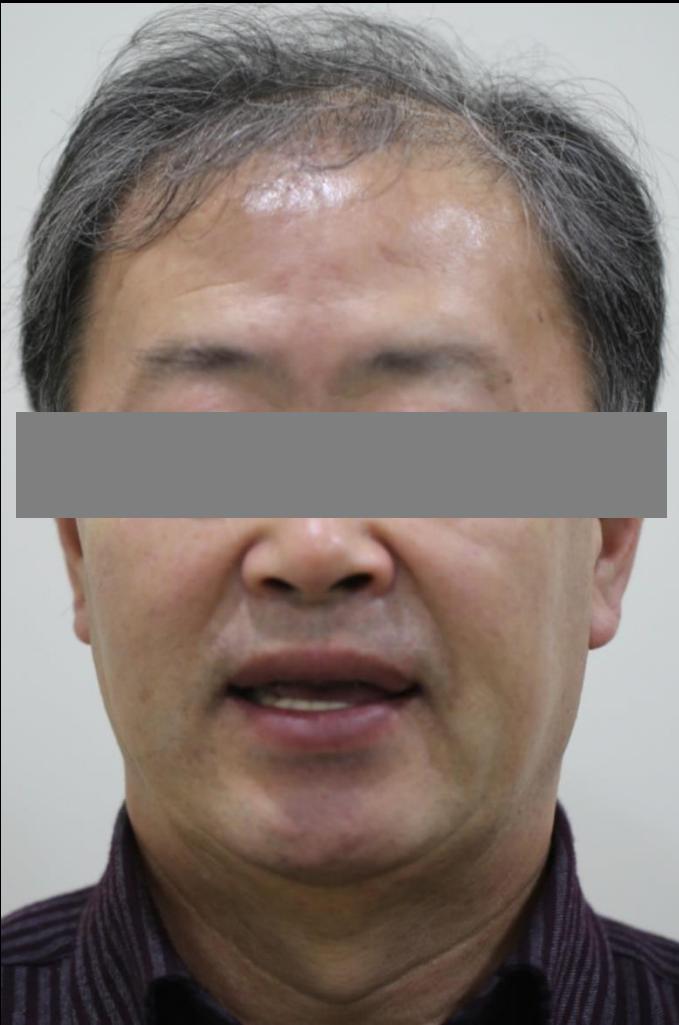
# Initial Photo



# Initial Photo

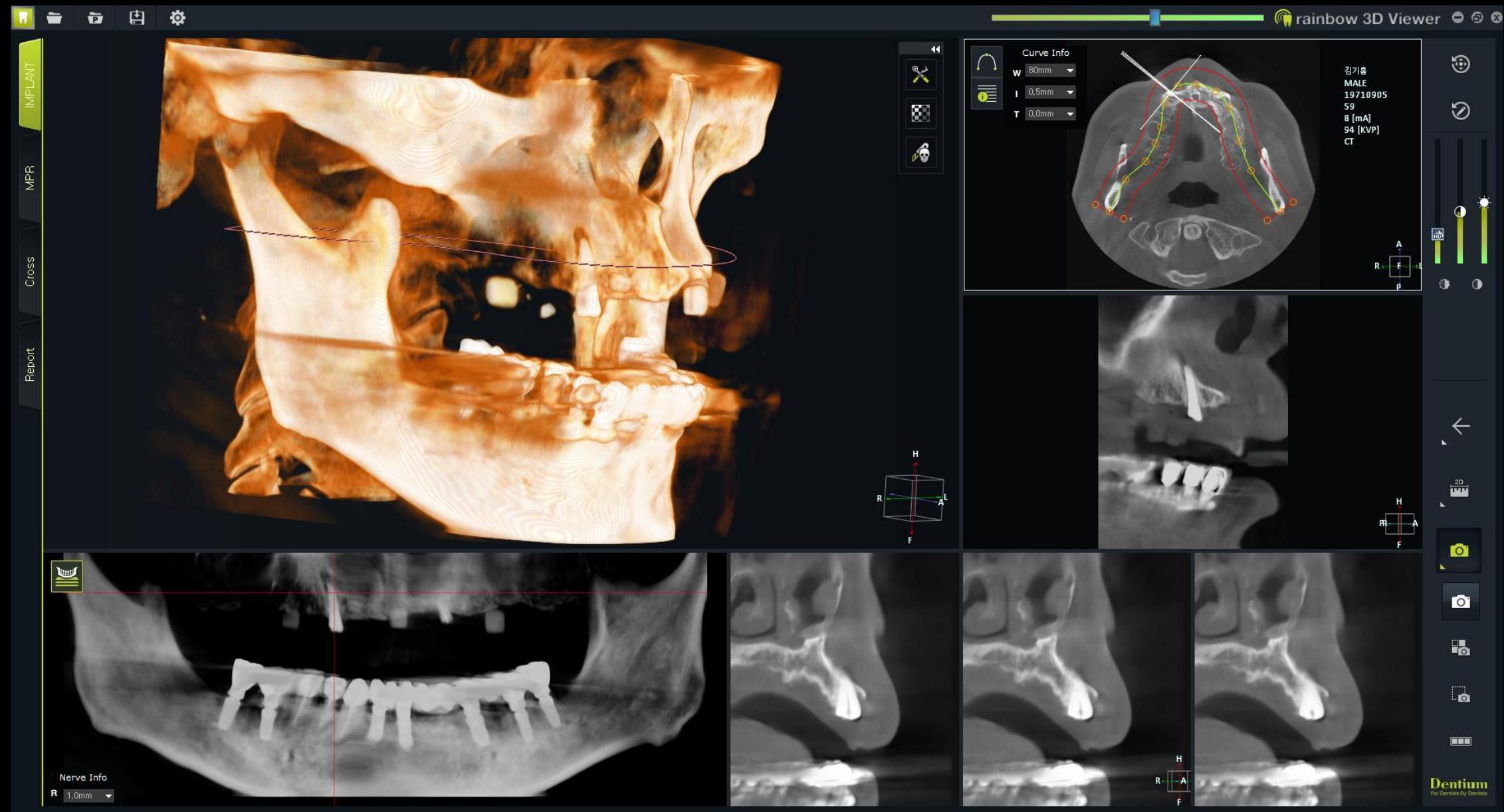


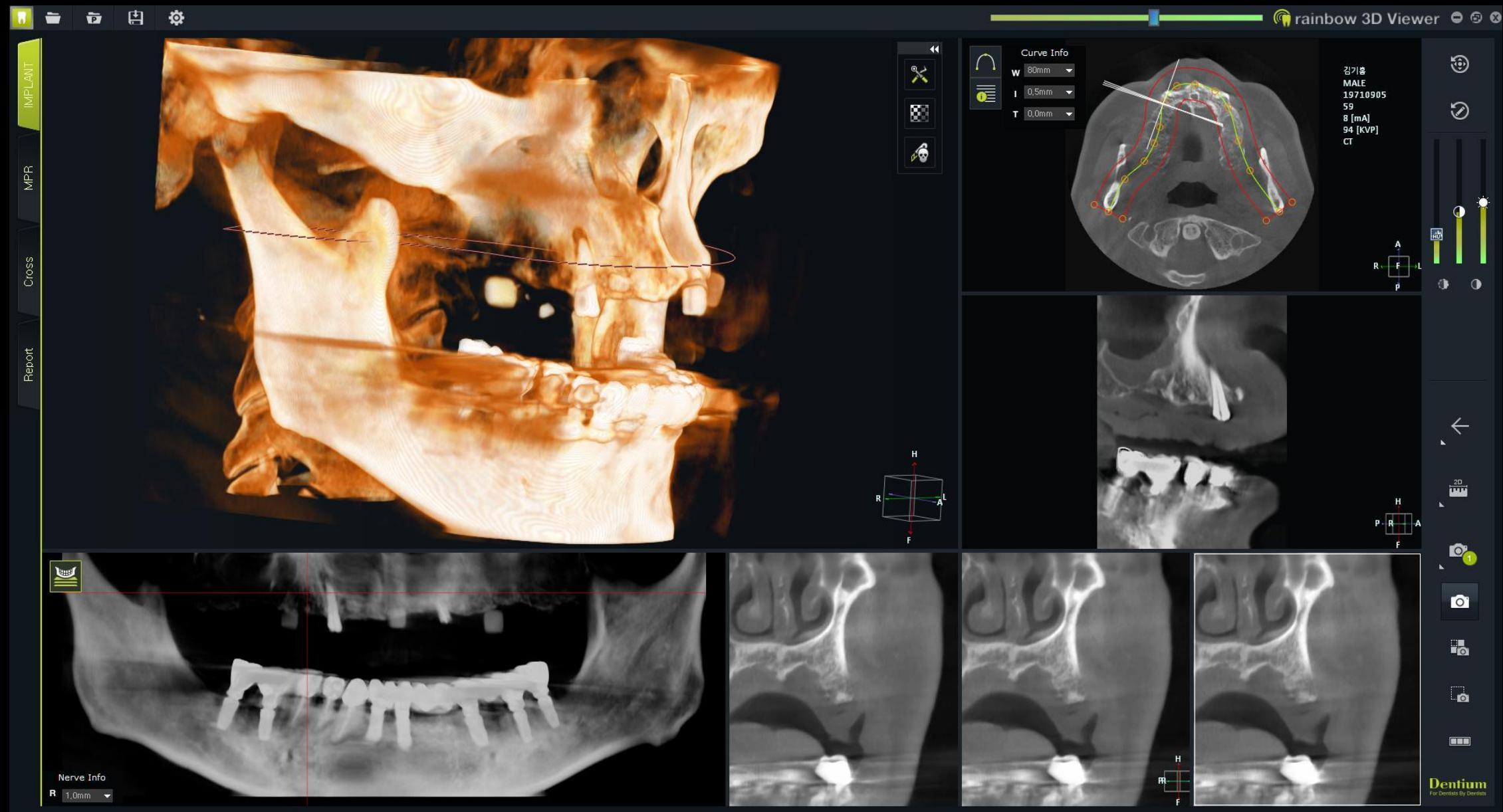
# Smile Design

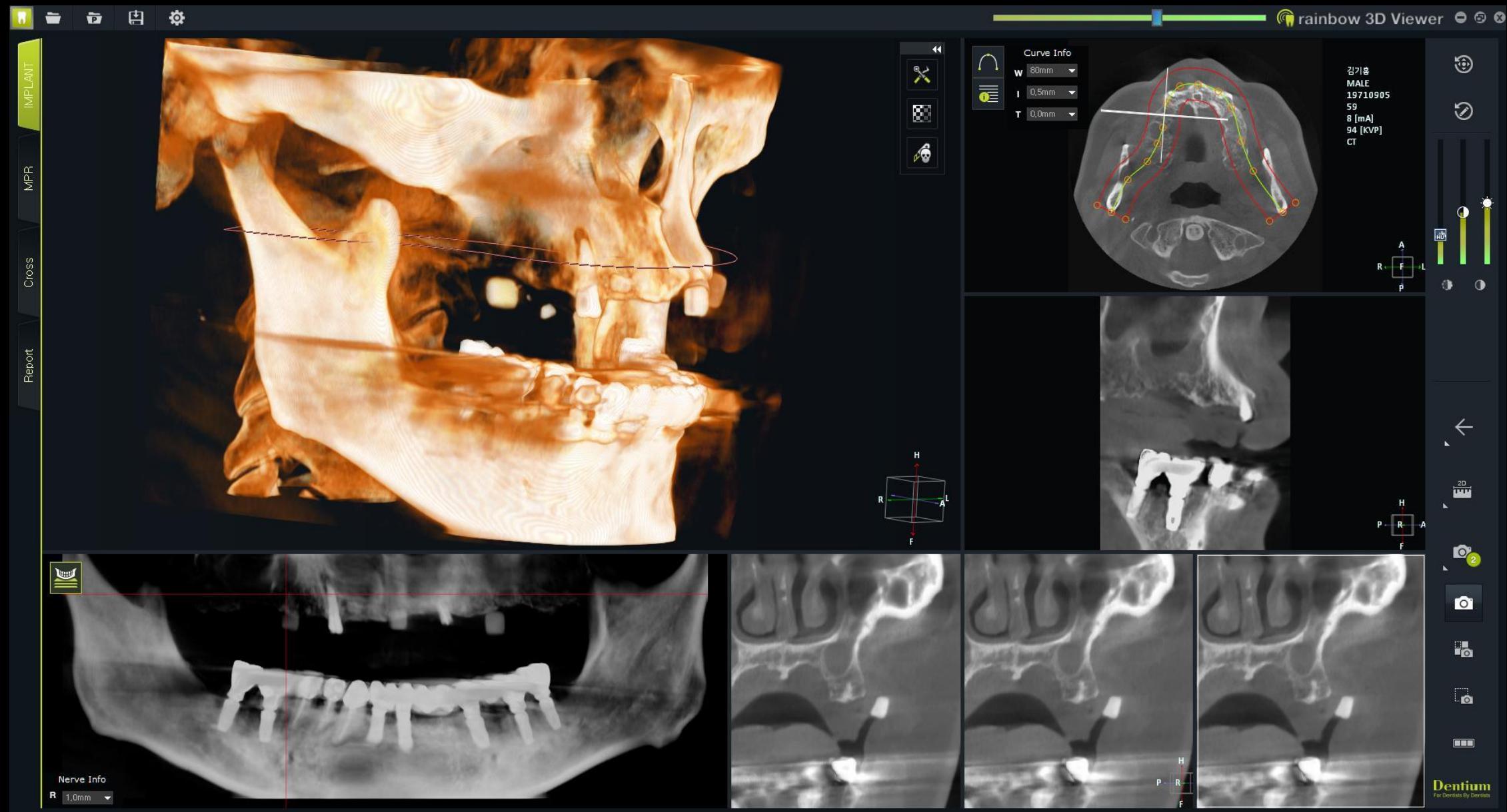


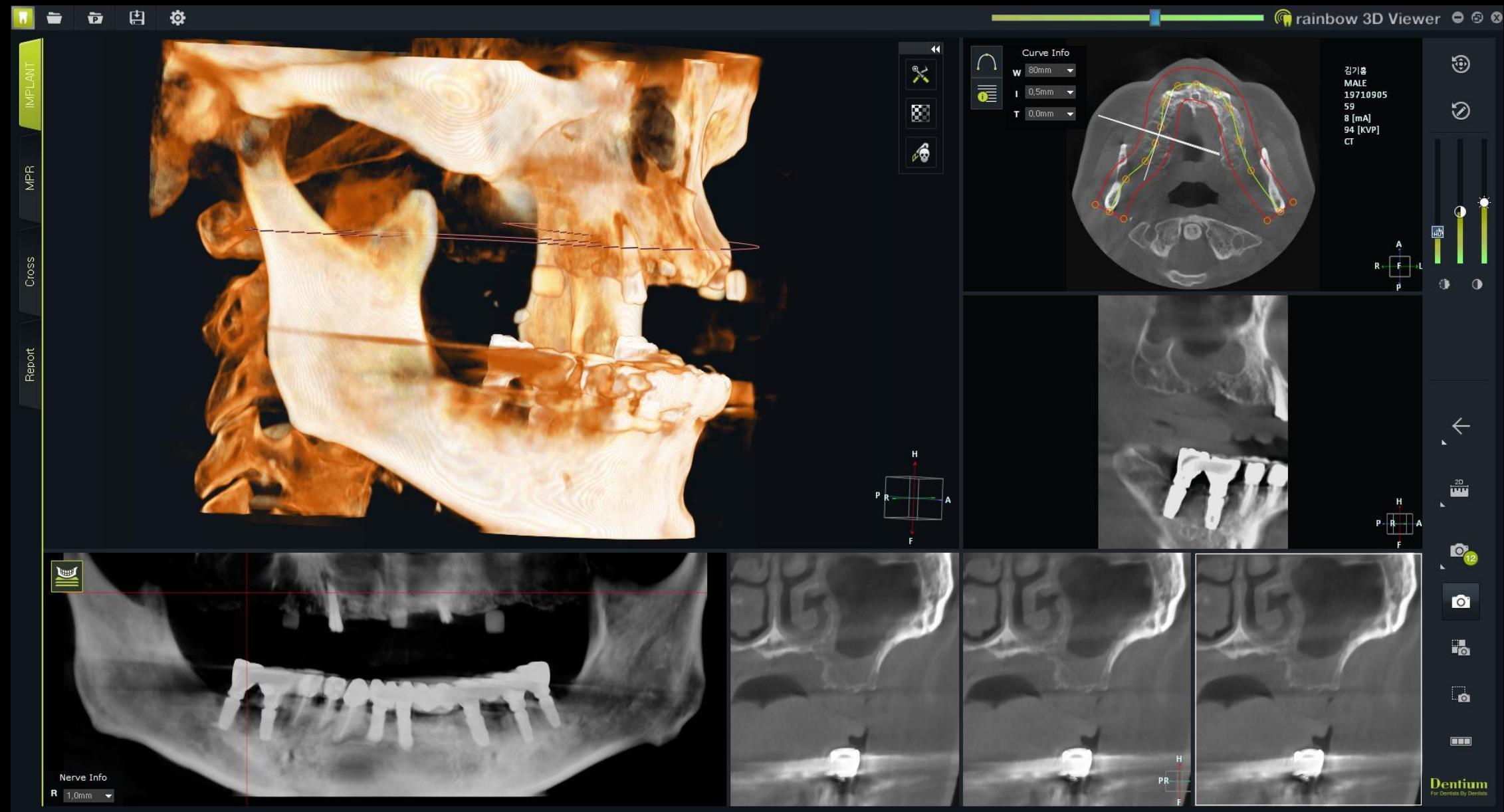
# Denture (Resin marker) adaptation

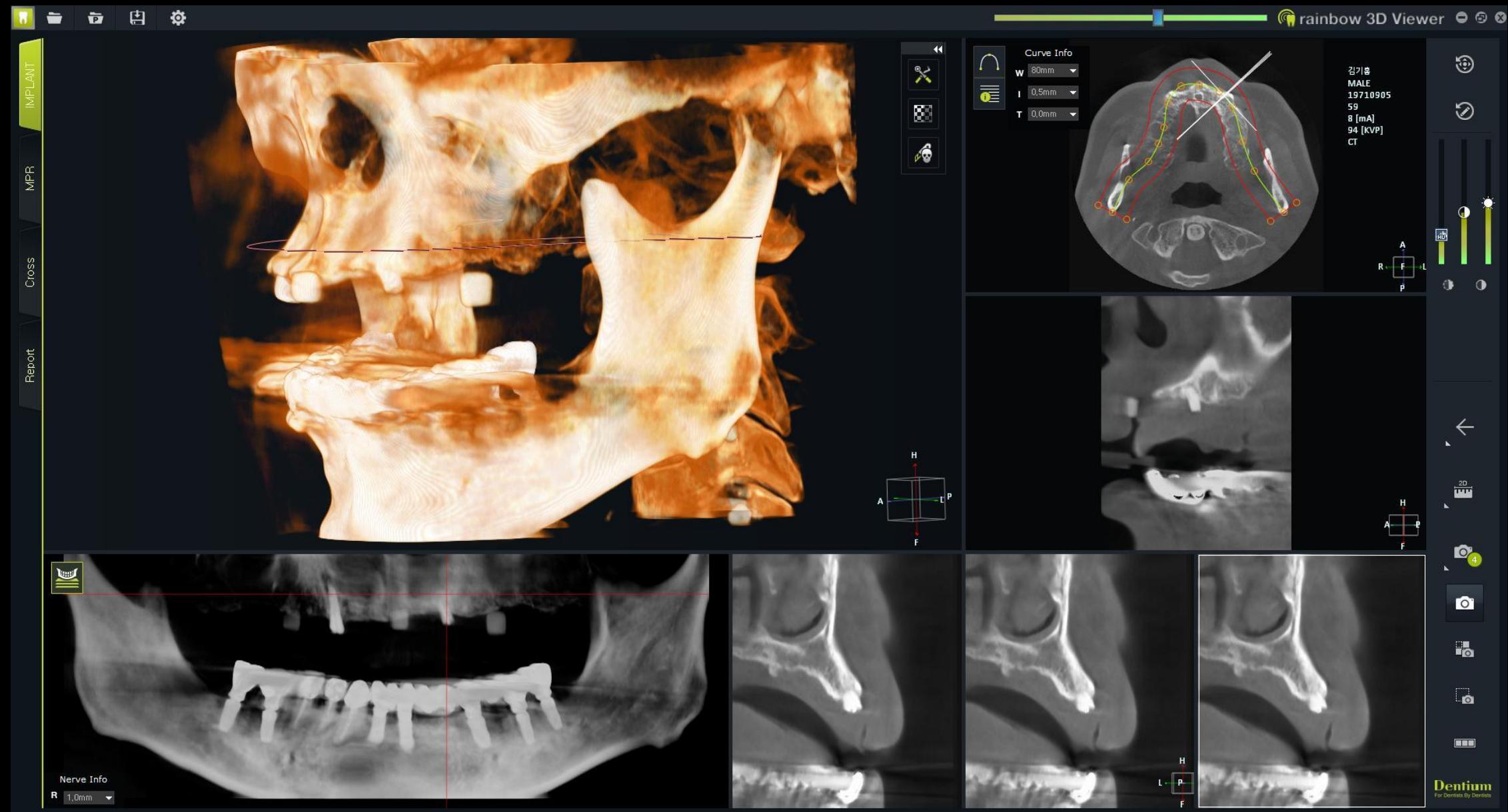






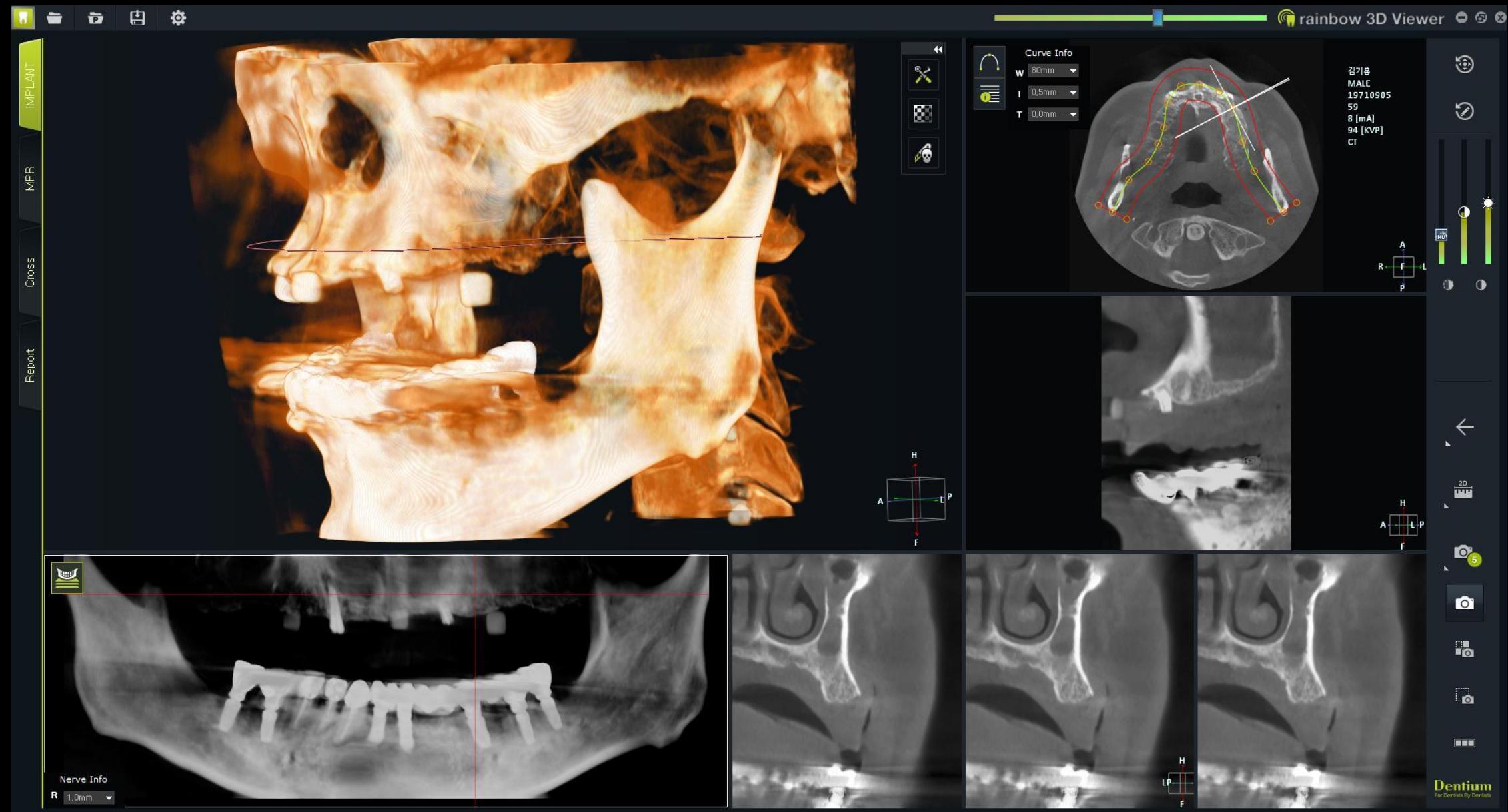






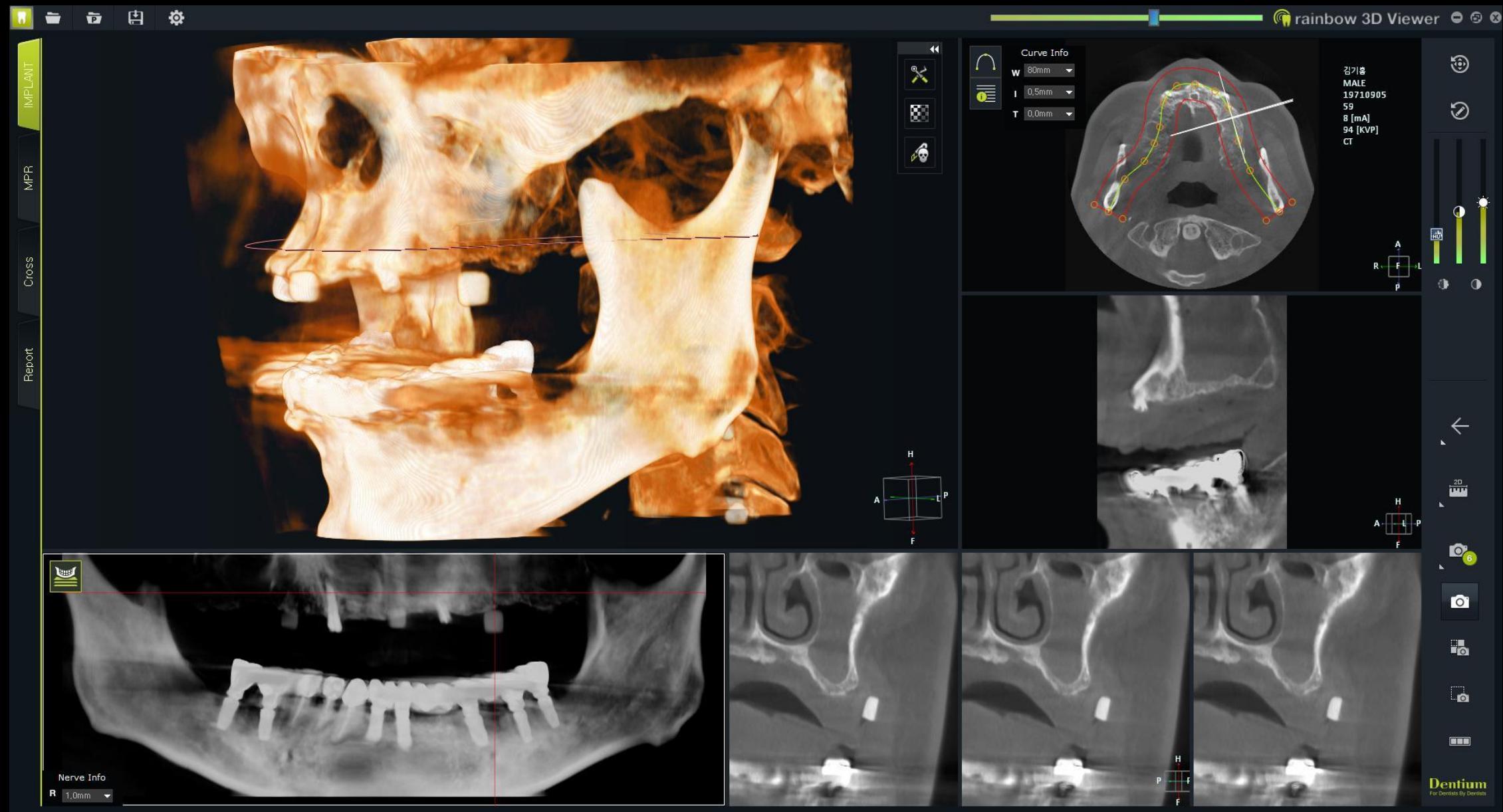
Pt. Kim (59y/M)

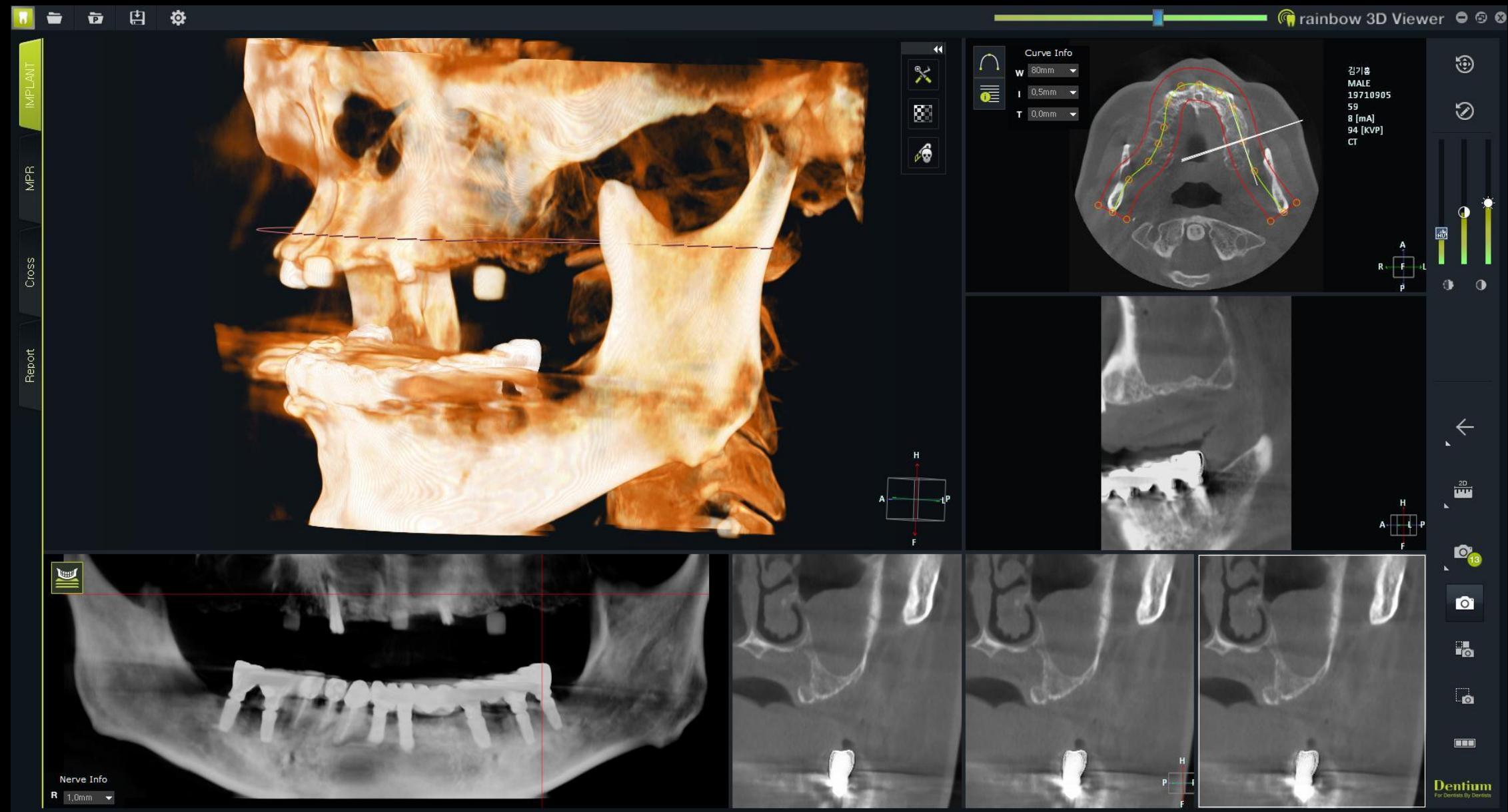
#24



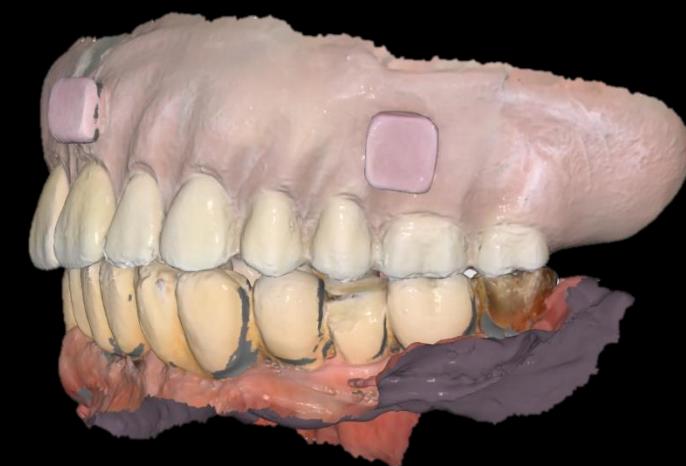
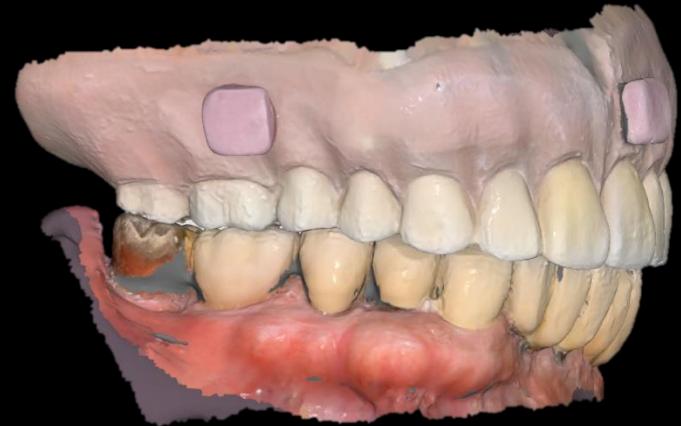
Pt. Kim (59y/M)

#25

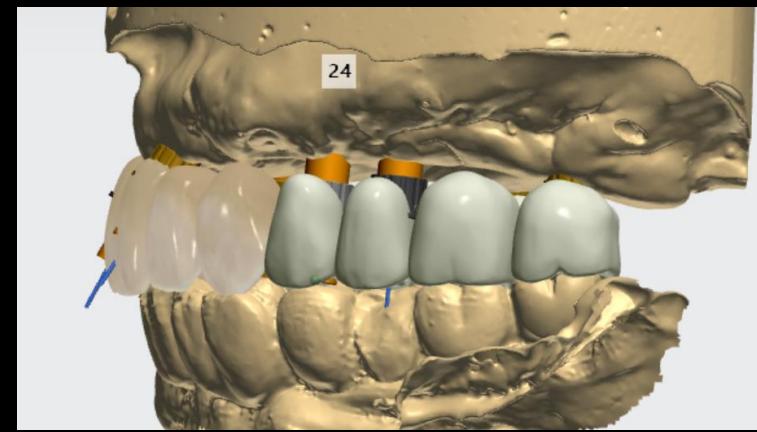
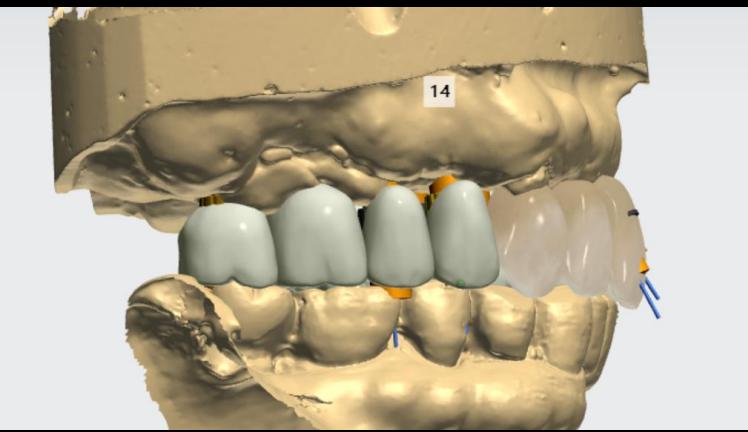
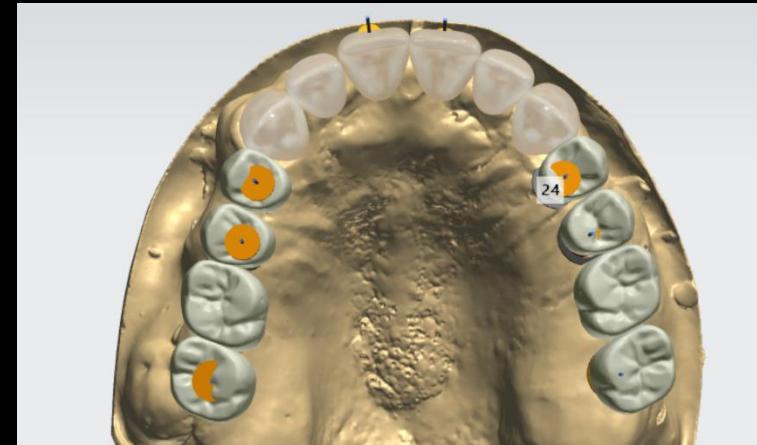
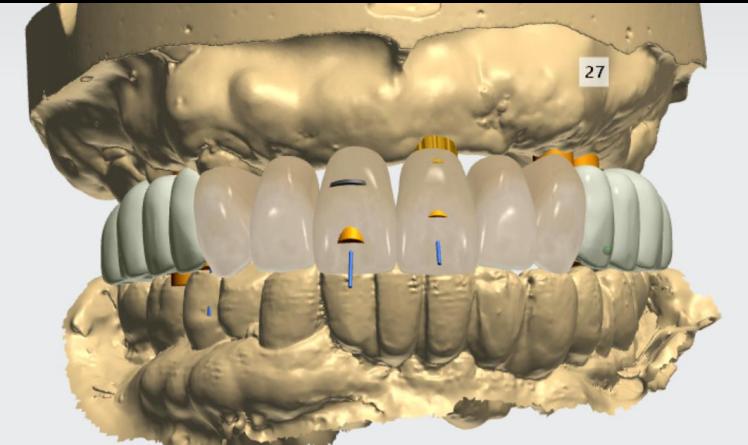




# Intra Oral Scanning

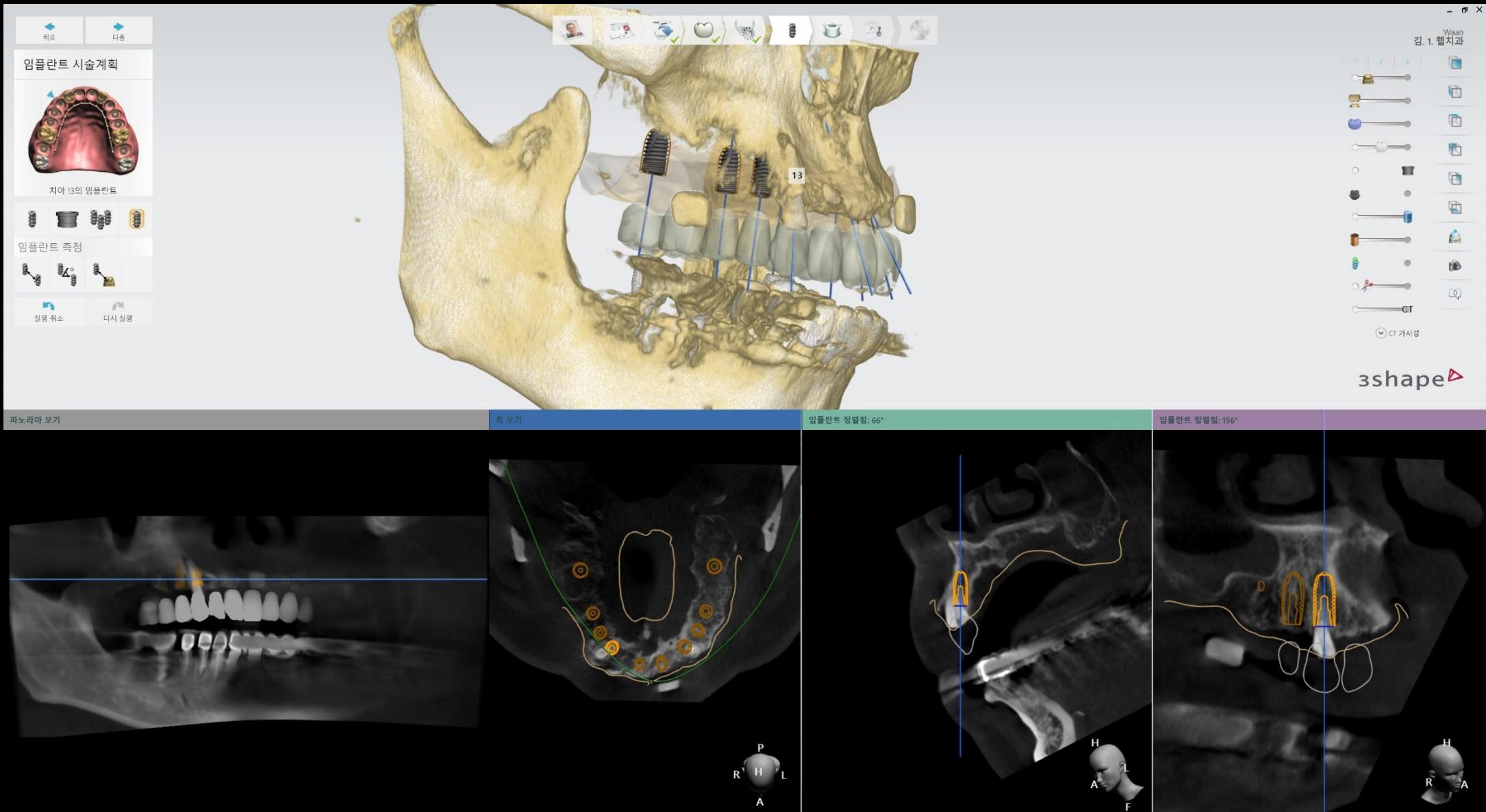


# Digital Guide (Set-up)



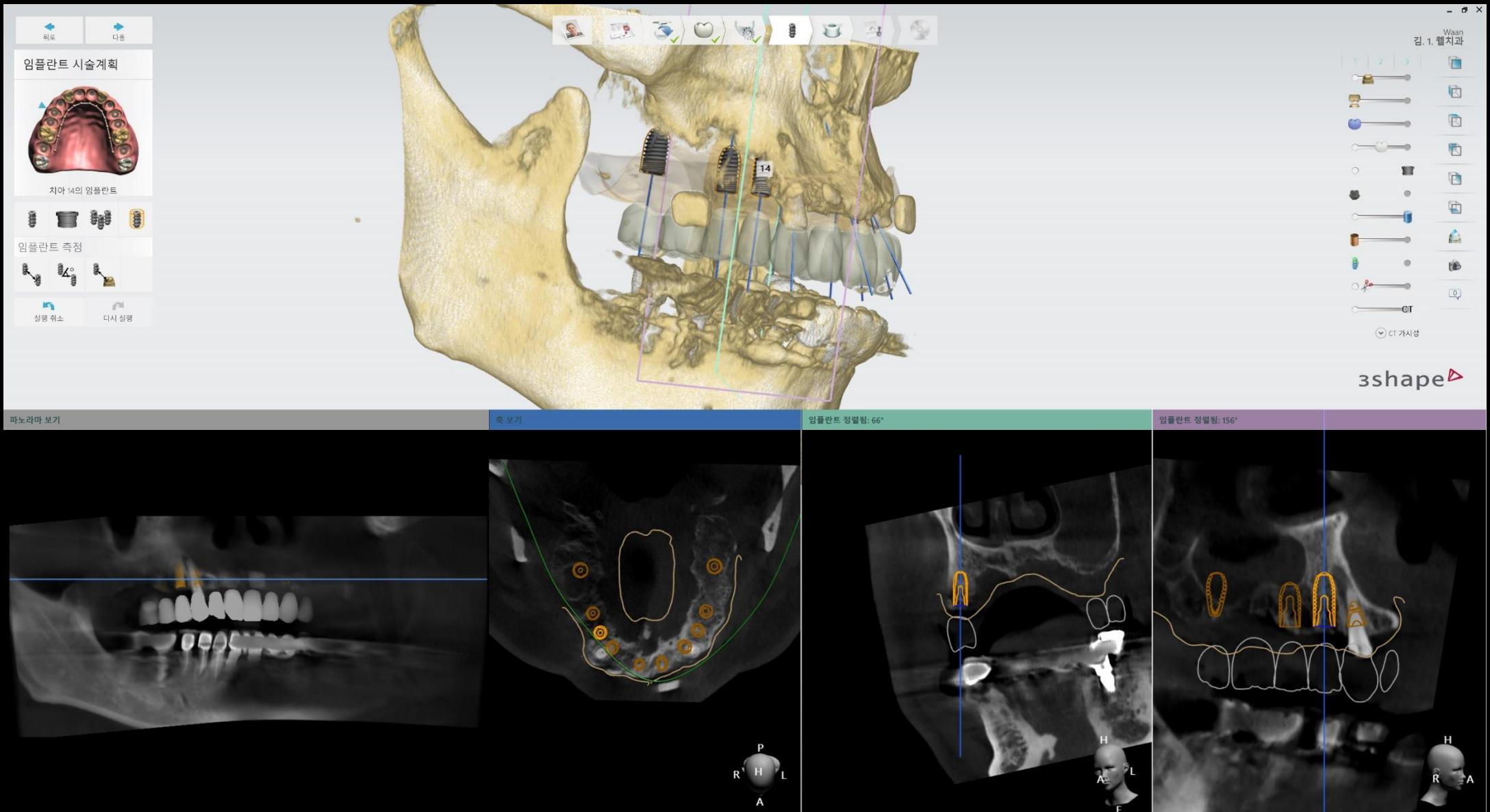
# Digital Guide (#13 Implant Planning)

4311



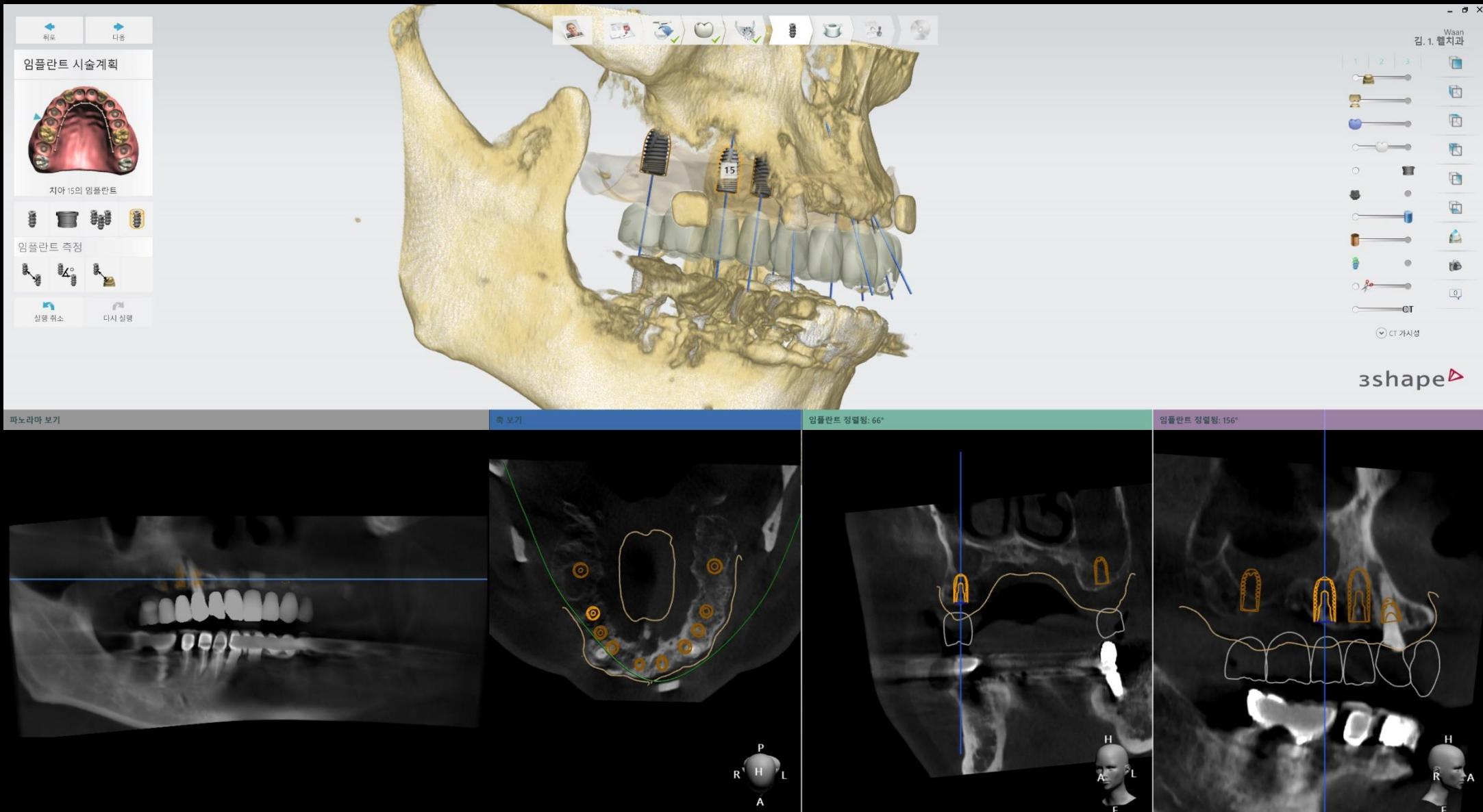
# Digital Guide (#14 Implant Planning)

4311



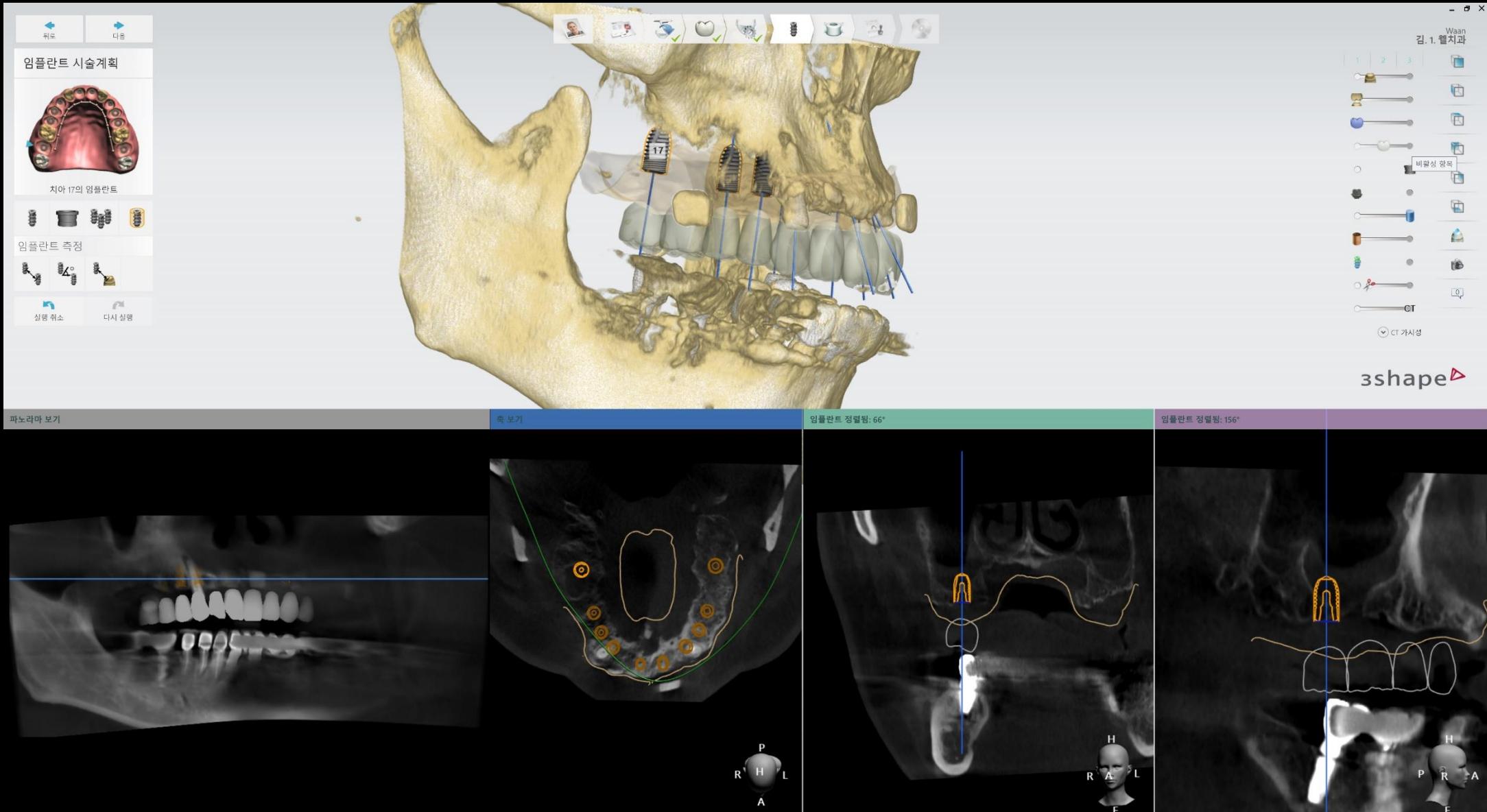
# Digital Guide (#15 Implant Planning)

4309



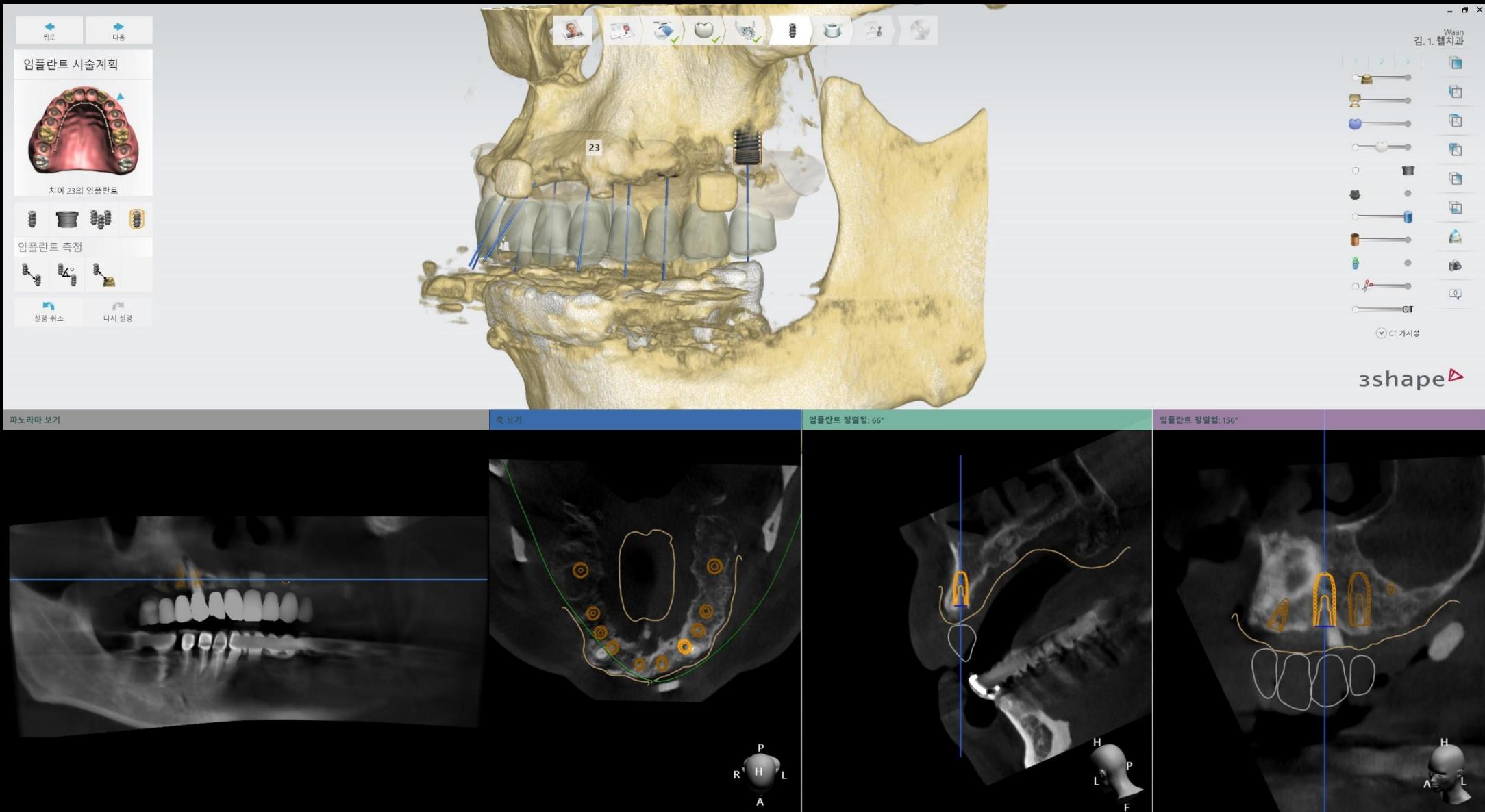
# Digital Guide (#17 Implant Planning)

5009



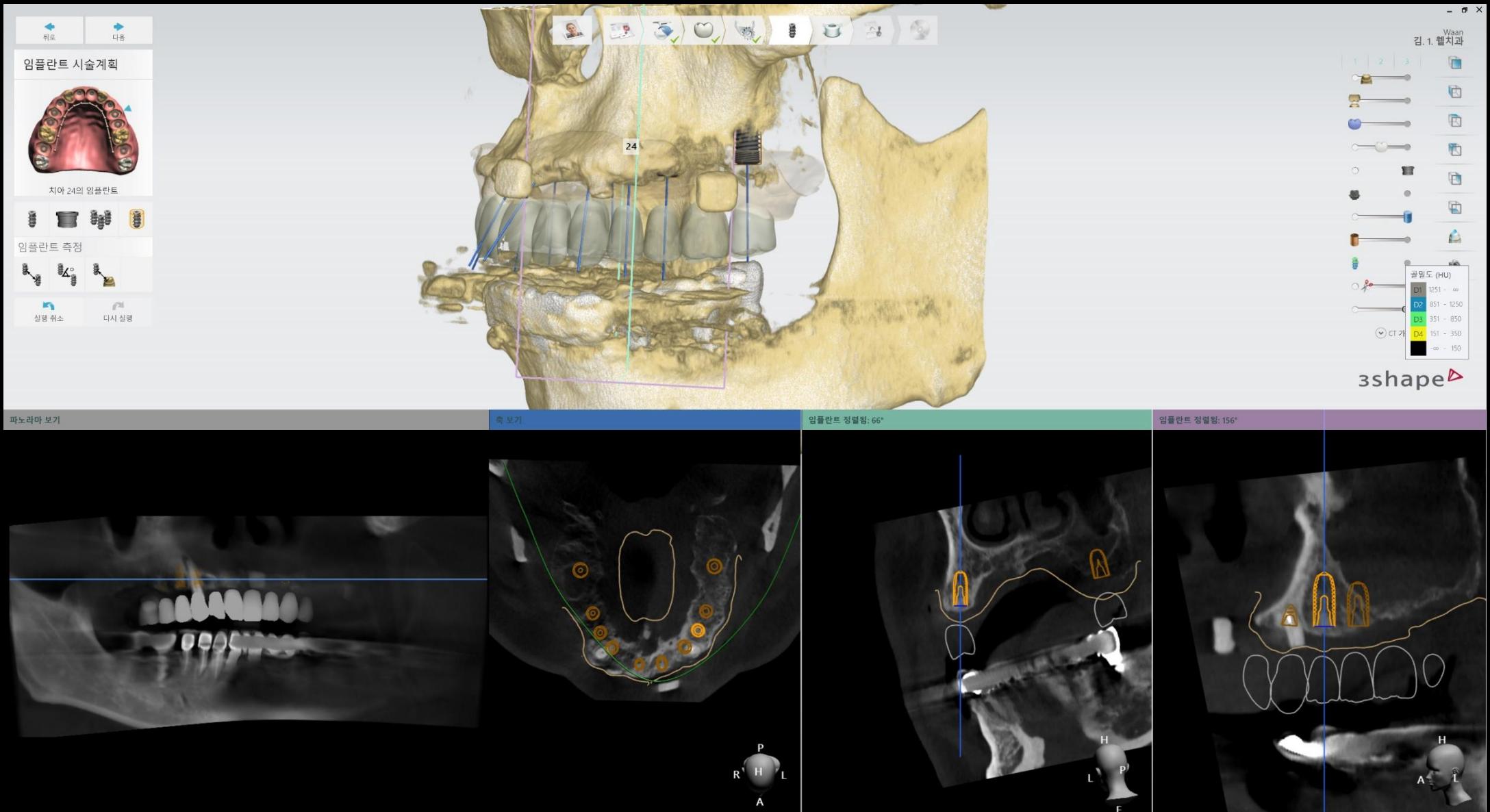
# Digital Guide (#23 Implant Planning)

4311



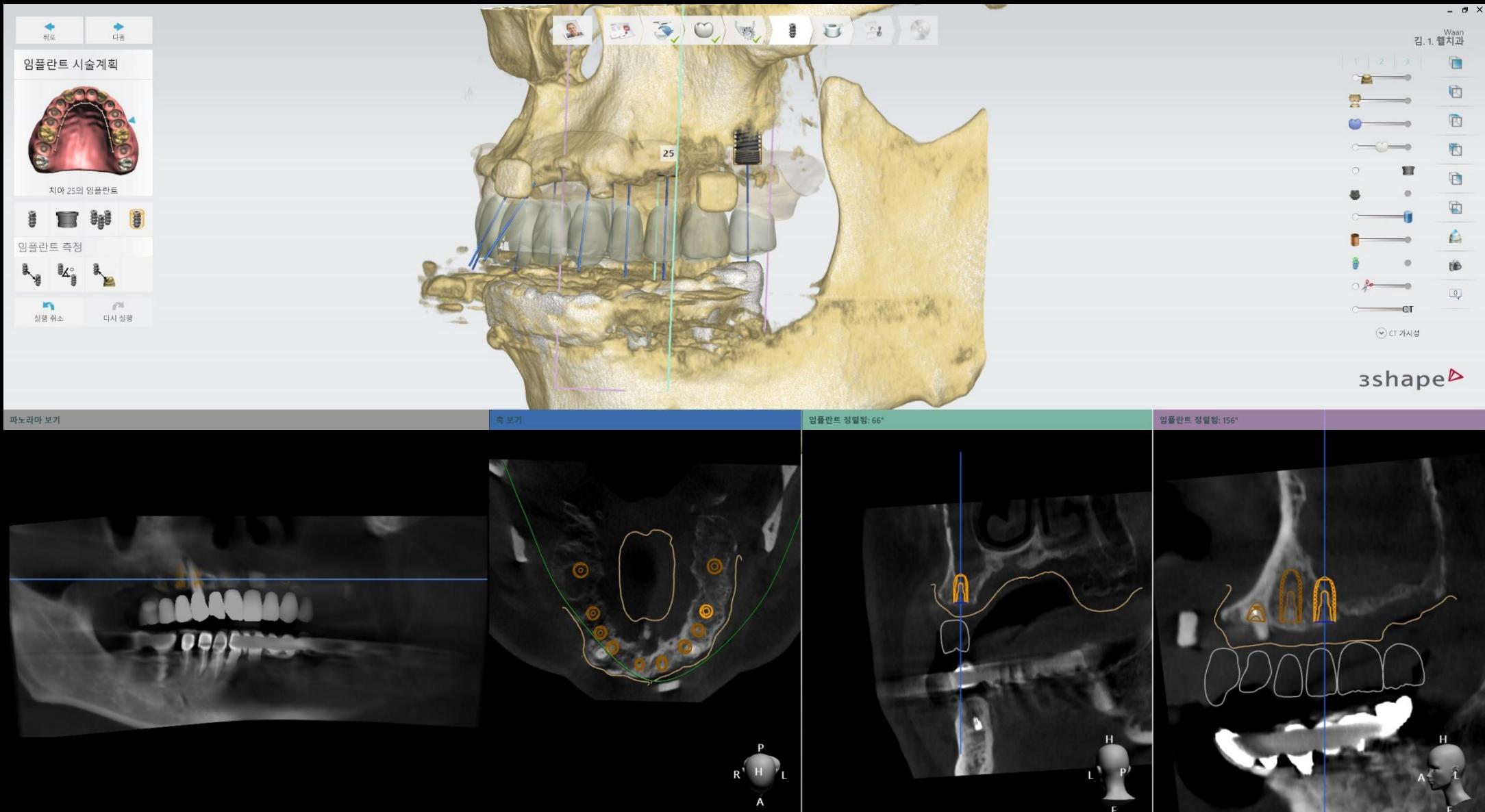
# Digital Guide (#24 Implant Planning)

4311



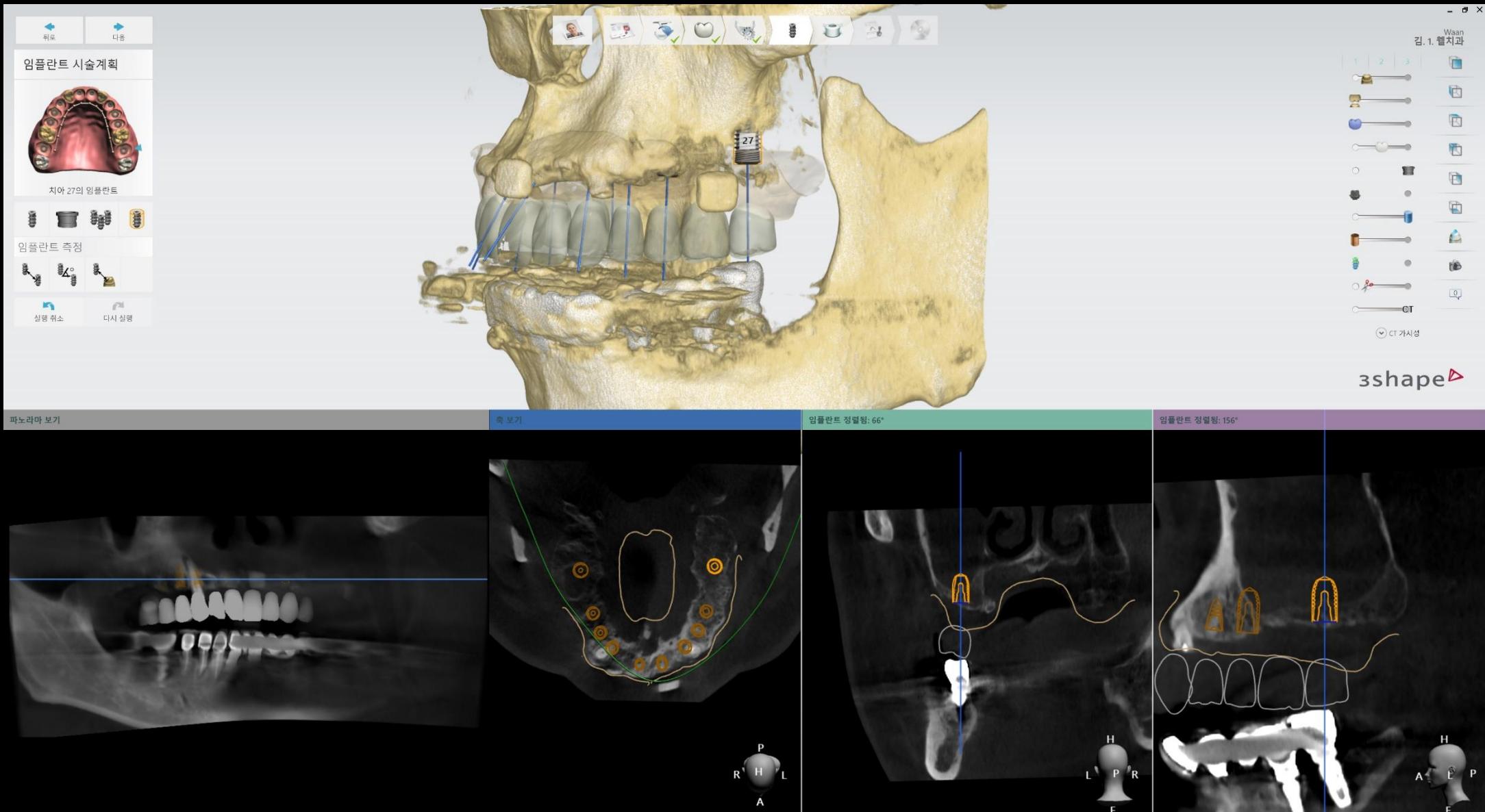
# Digital Guide (#25 Implant Planning)

4309

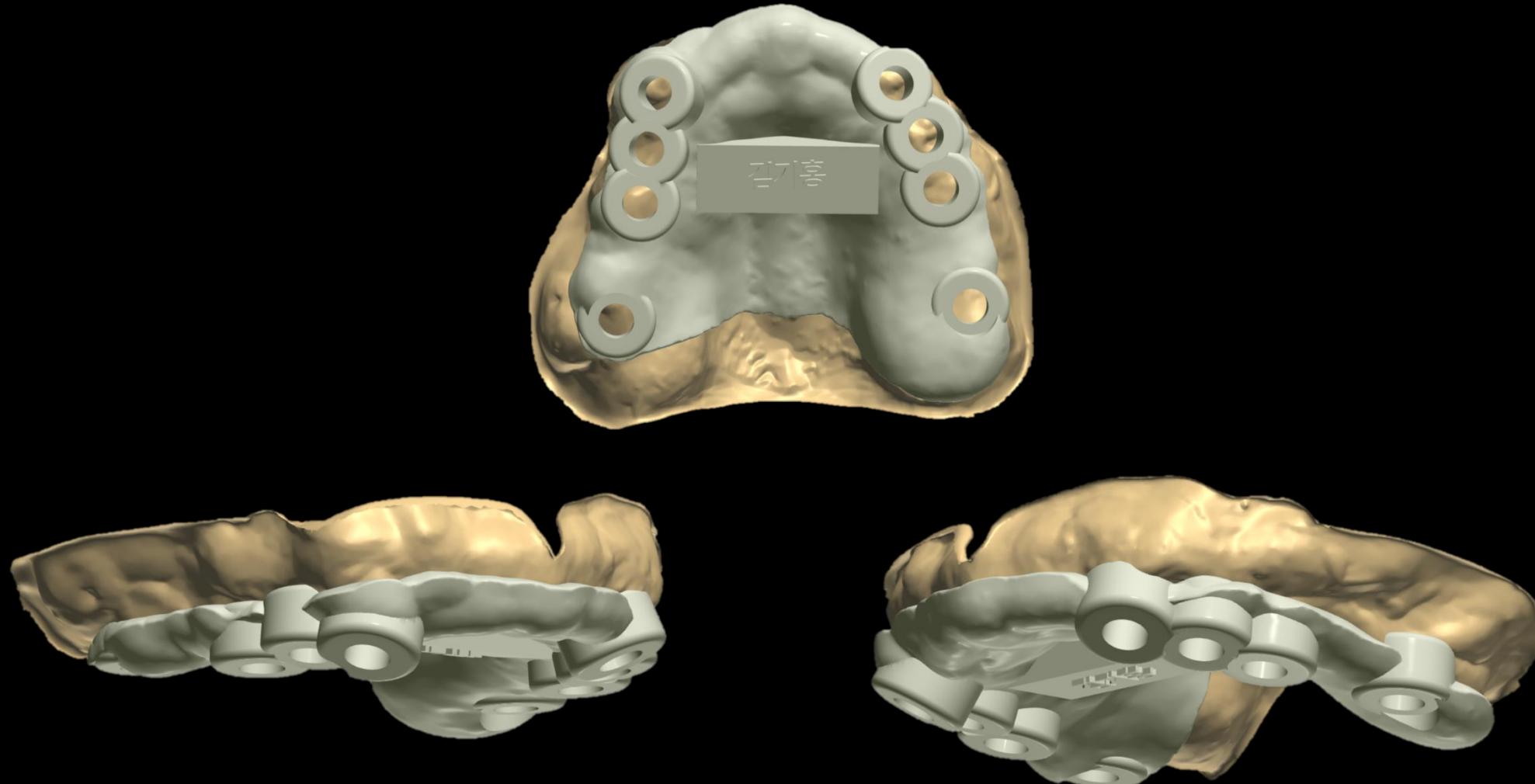


# Digital Guide (#27 Implant Planning)

5009



# Digital Guide (Stent Design)



## Similar case presentation (1)

- Simple Sinus elevation & Implantation



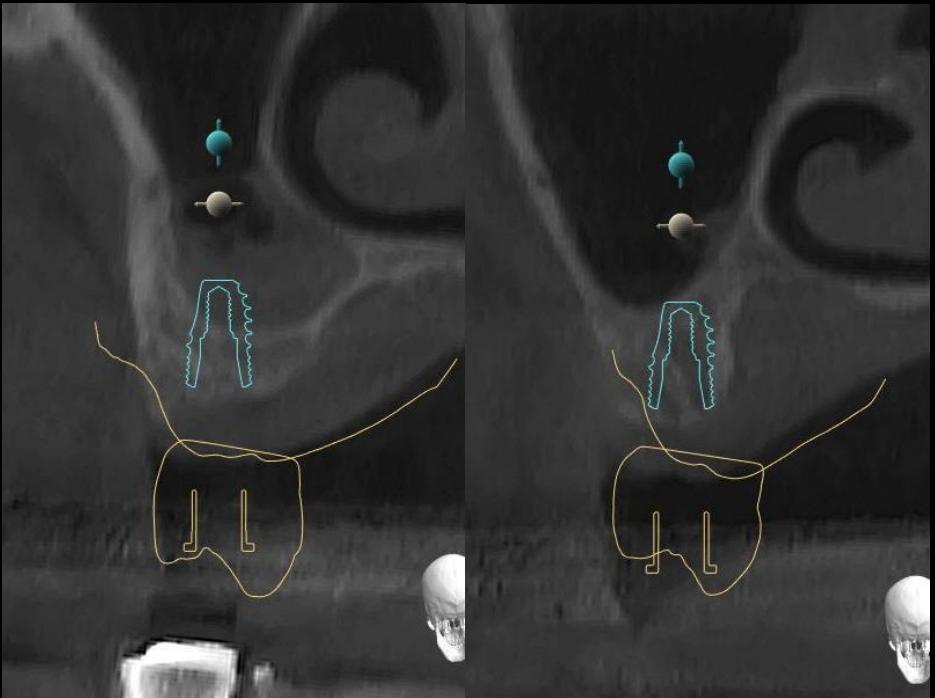
Pre-op (2019-08-12)



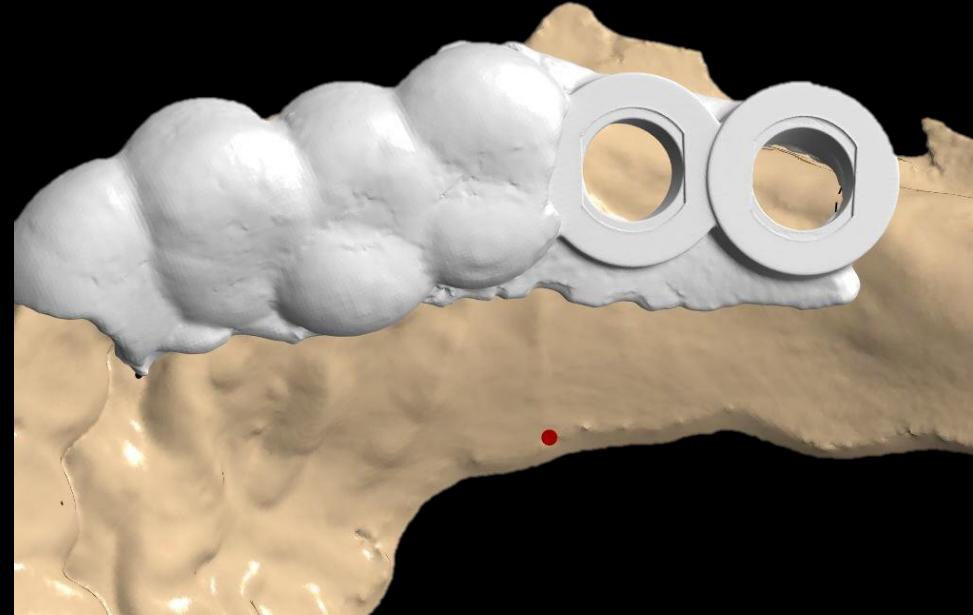
Provisional restoration (2019-11-11)

## Similar case presentation (1)

- Simple Sinus elevation & Implantation



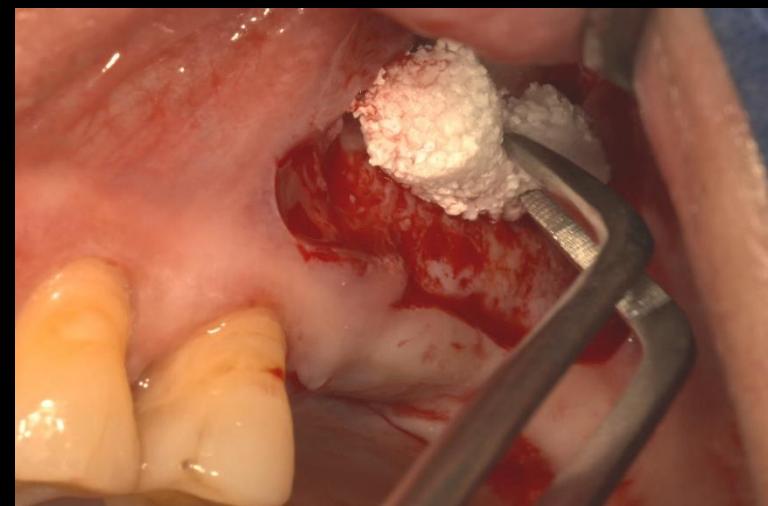
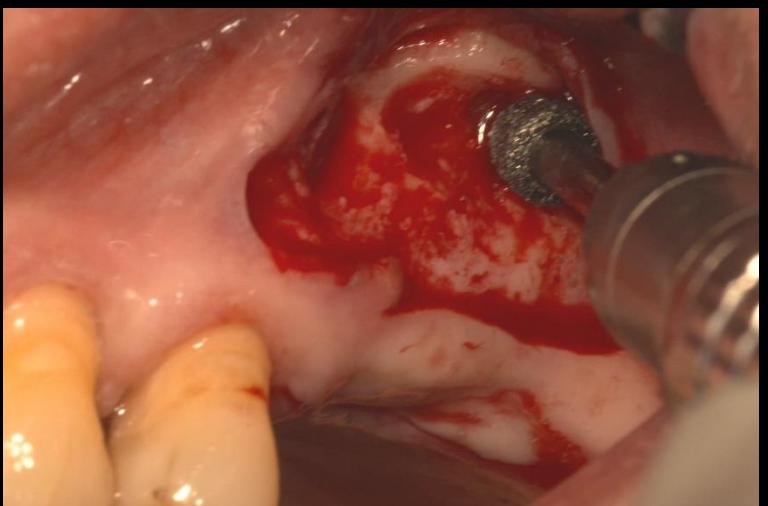
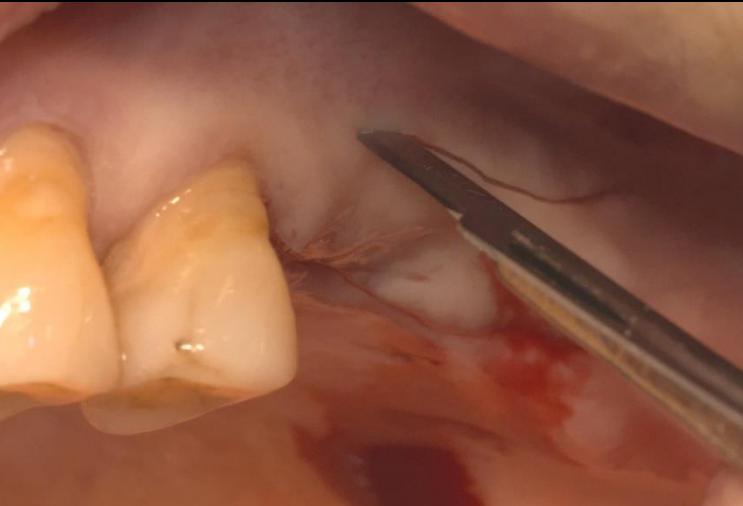
Implant Planning



Stent Design

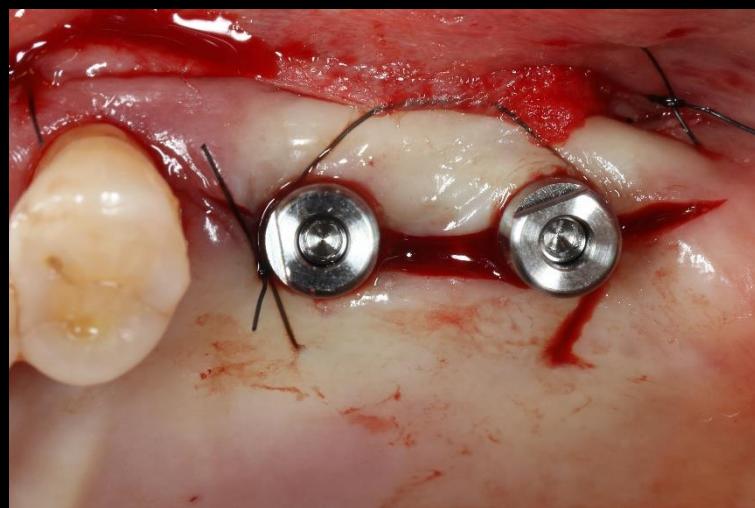
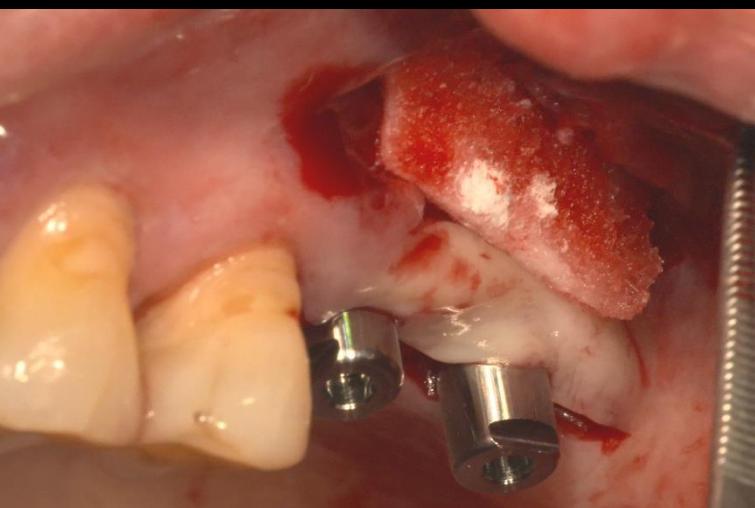
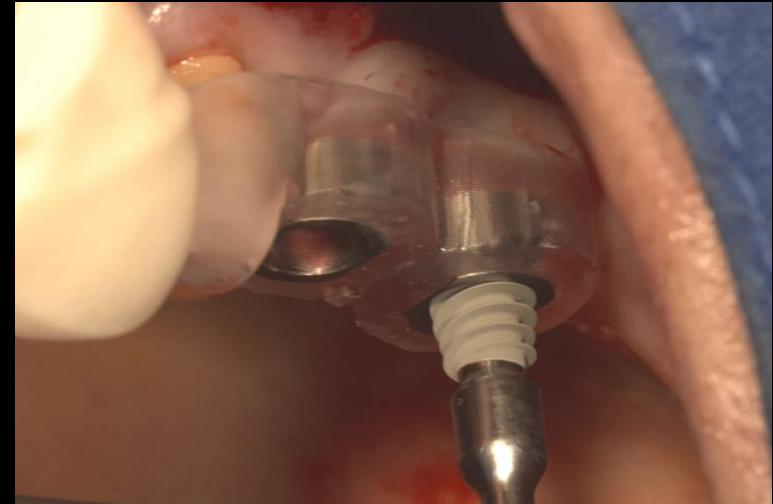
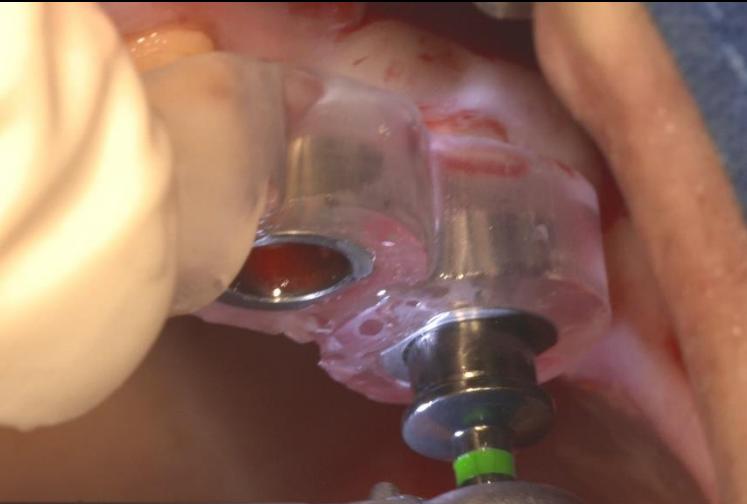
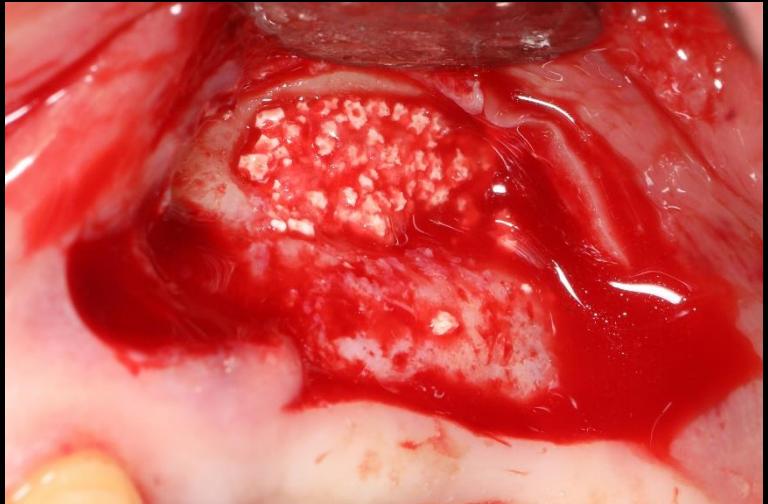
## Similar case presentation (1)

- Simple Sinus elevation & Implantation



## Similar case presentation (1)

- Simple Sinus elevation & Implantation



## Similar case presentation (1)

- Simple Sinus elevation & Implantation



Healing : 2 weeks  
(2019-08-26)



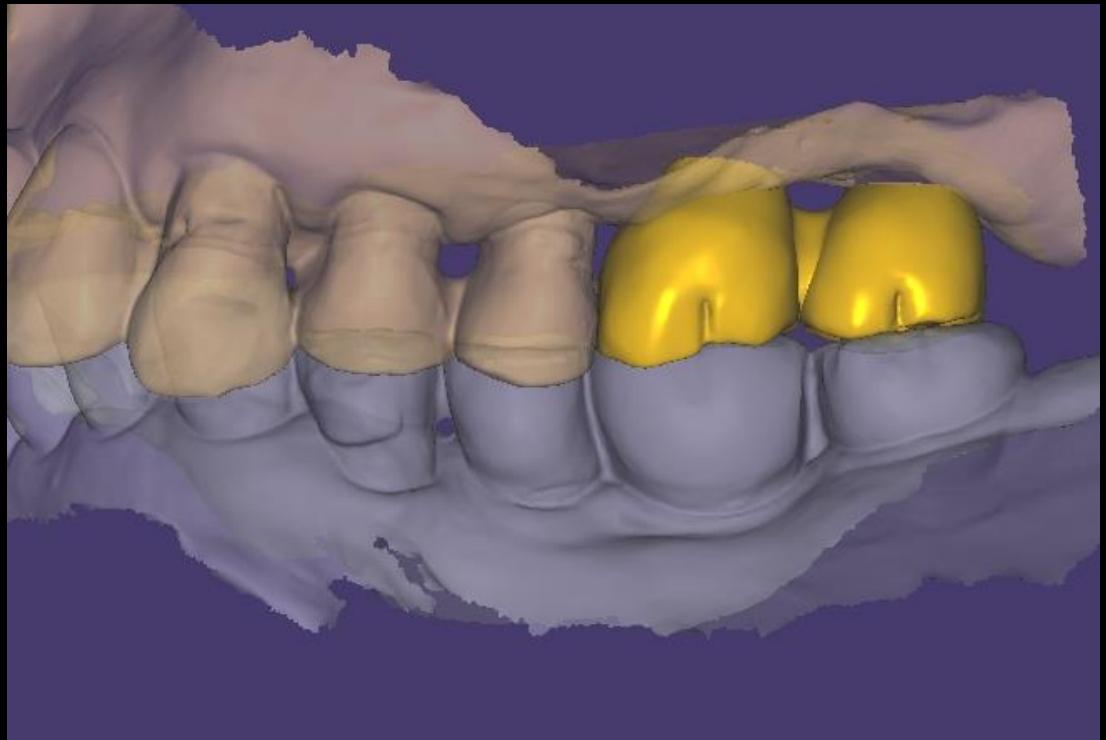
Healing : 1 month  
(2019-09-09)

## Similar case presentation (1)

- Simple Sinus elevation & Implantation



Intra Oral Scanning



CAD  
(Provisional restoration)

## Similar case presentation (1)

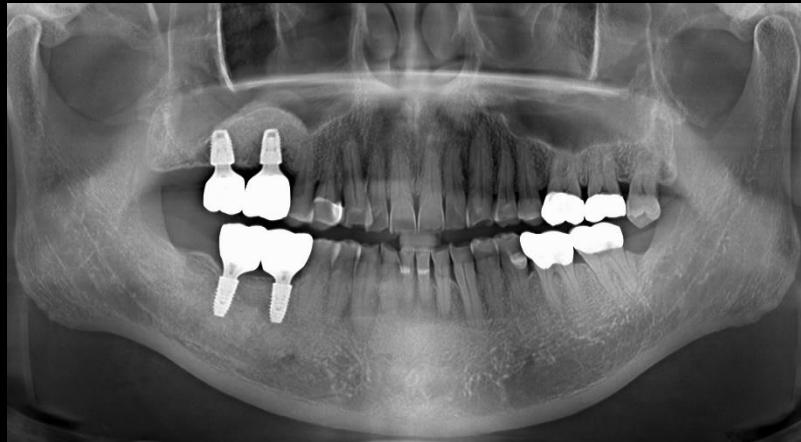
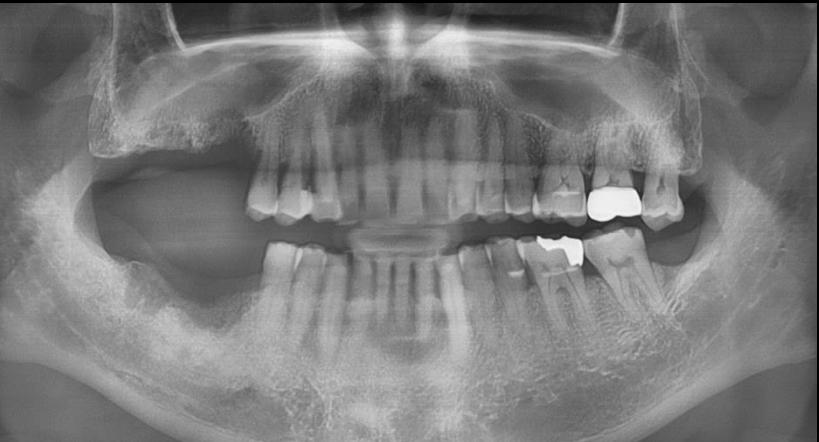
- Simple Sinus elevation & Implantation



Provisional restoration  
(2019-11-11)

## Similar case presentation (2)

- Sinus elevation & Removal of Mucocele



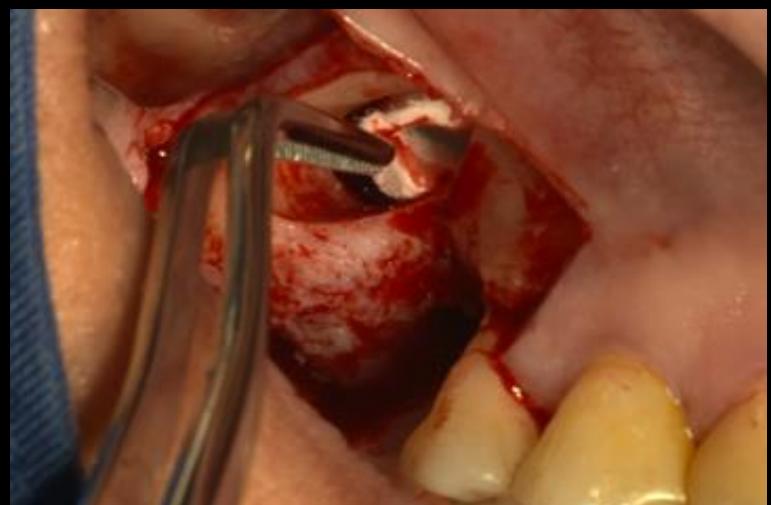
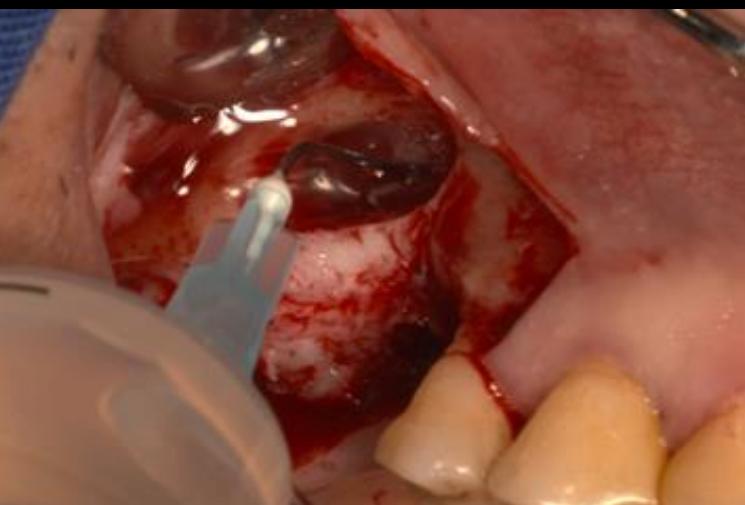
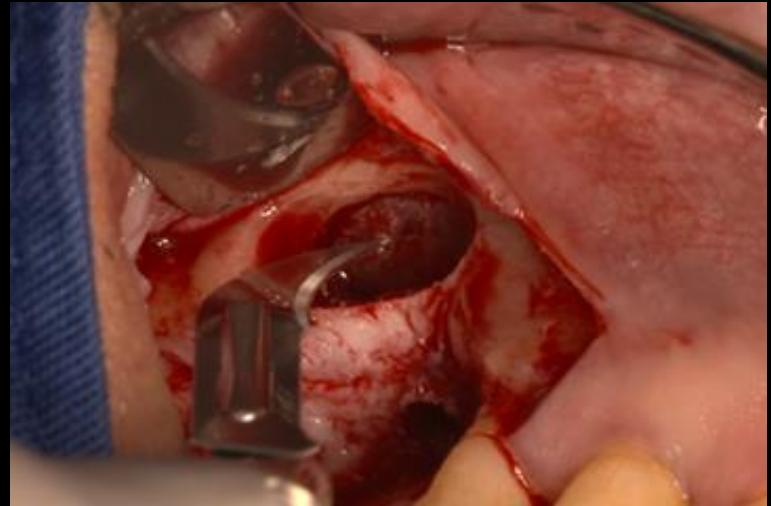
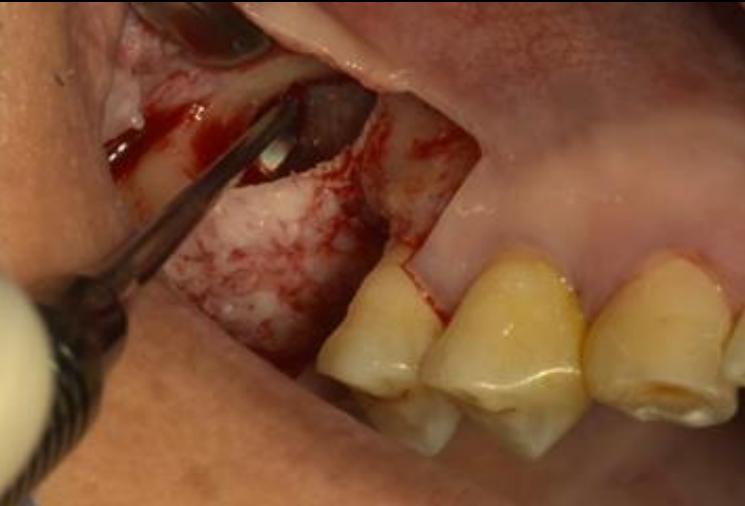
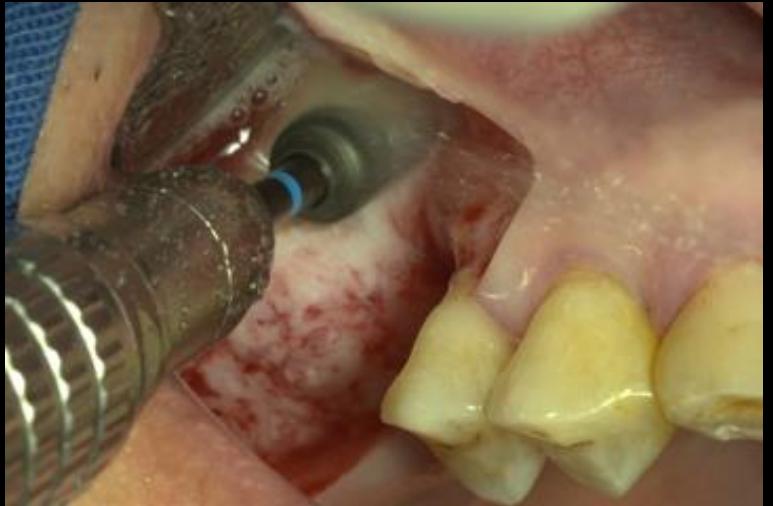
Pre-op (2016-09-21)



Follow up : 2 years 5 months(2019-08-27)

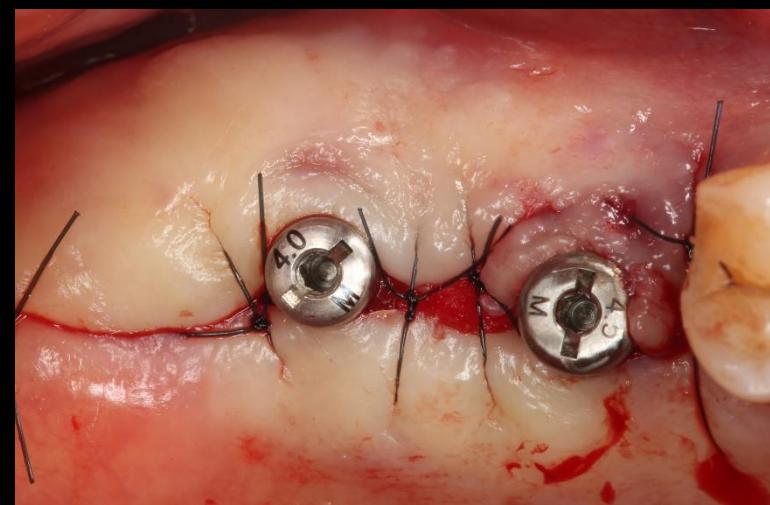
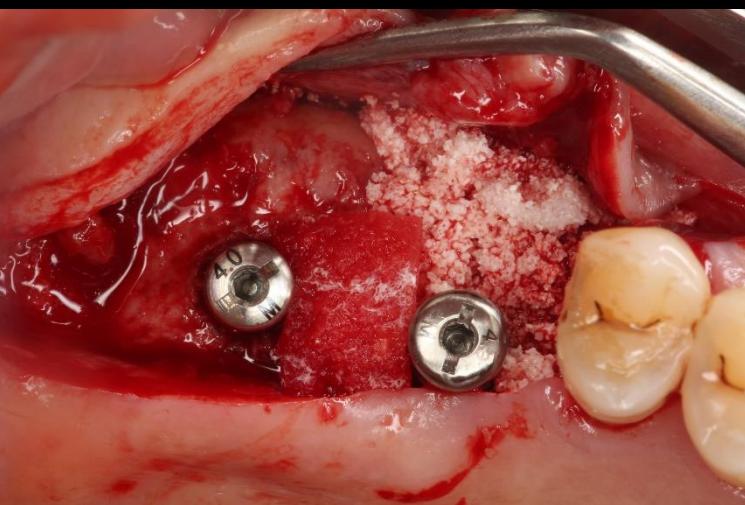
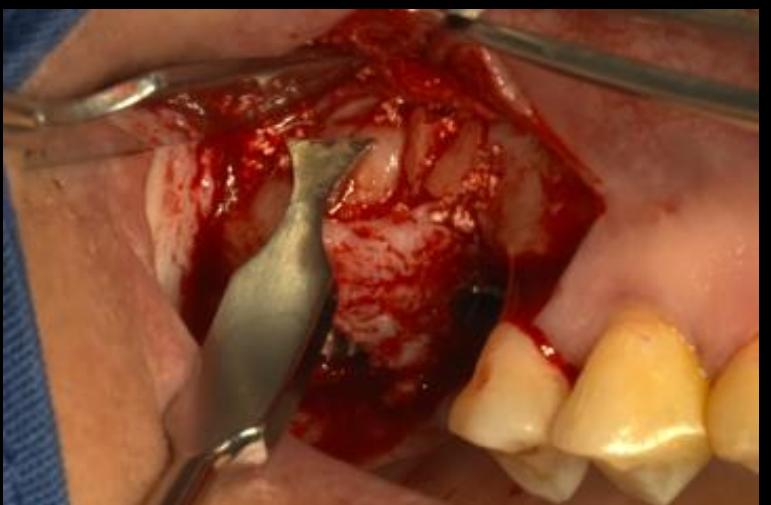
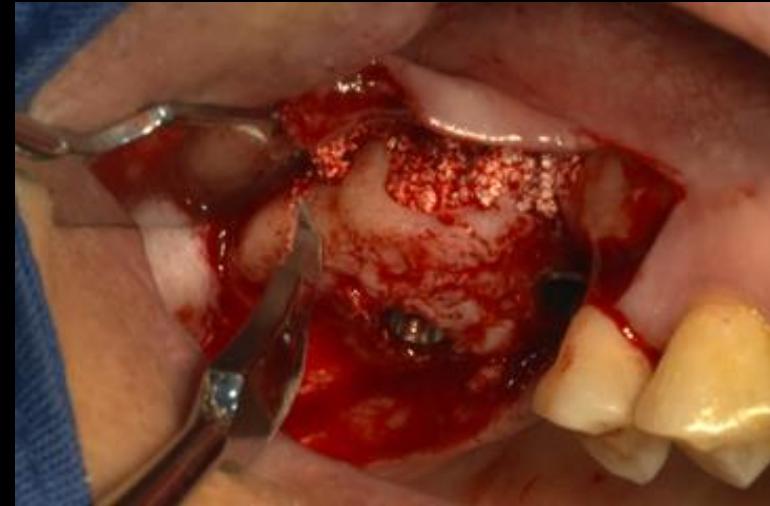
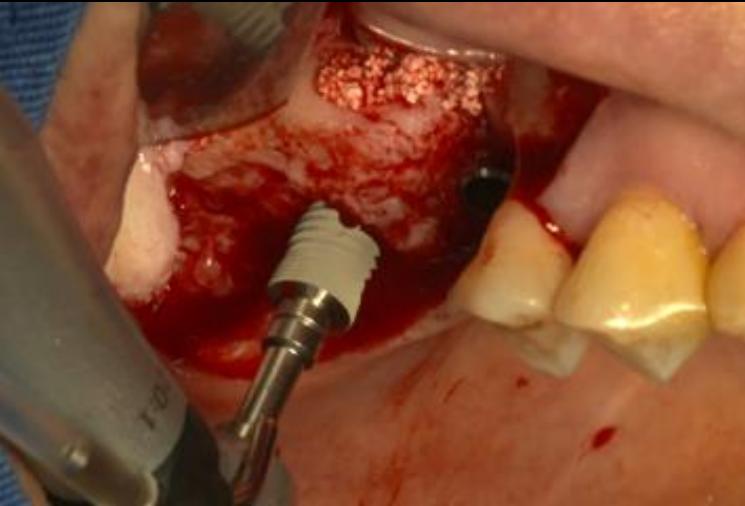
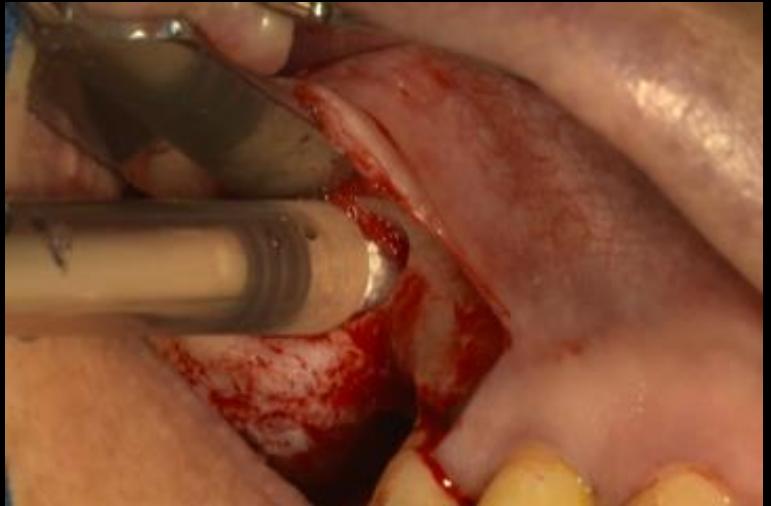
## Similar case presentation (2)

- Sinus elevation & Removal of Mucocele



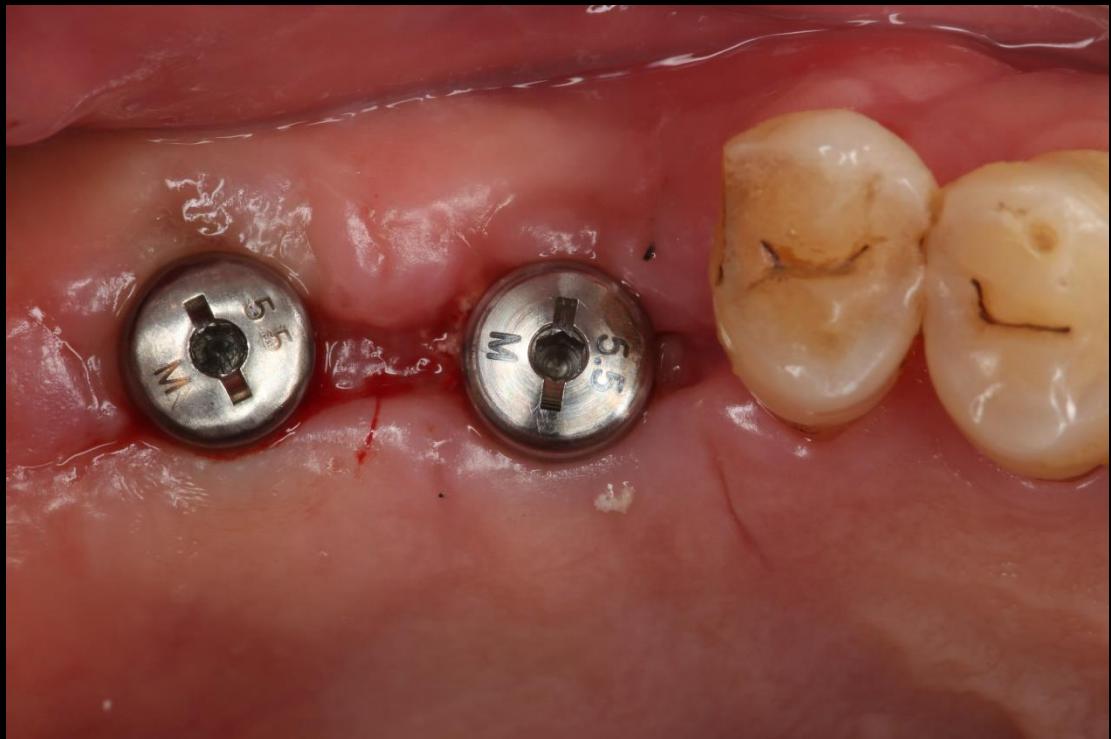
## Similar case presentation (2)

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- Sinus elevation & Removal of Mucocele



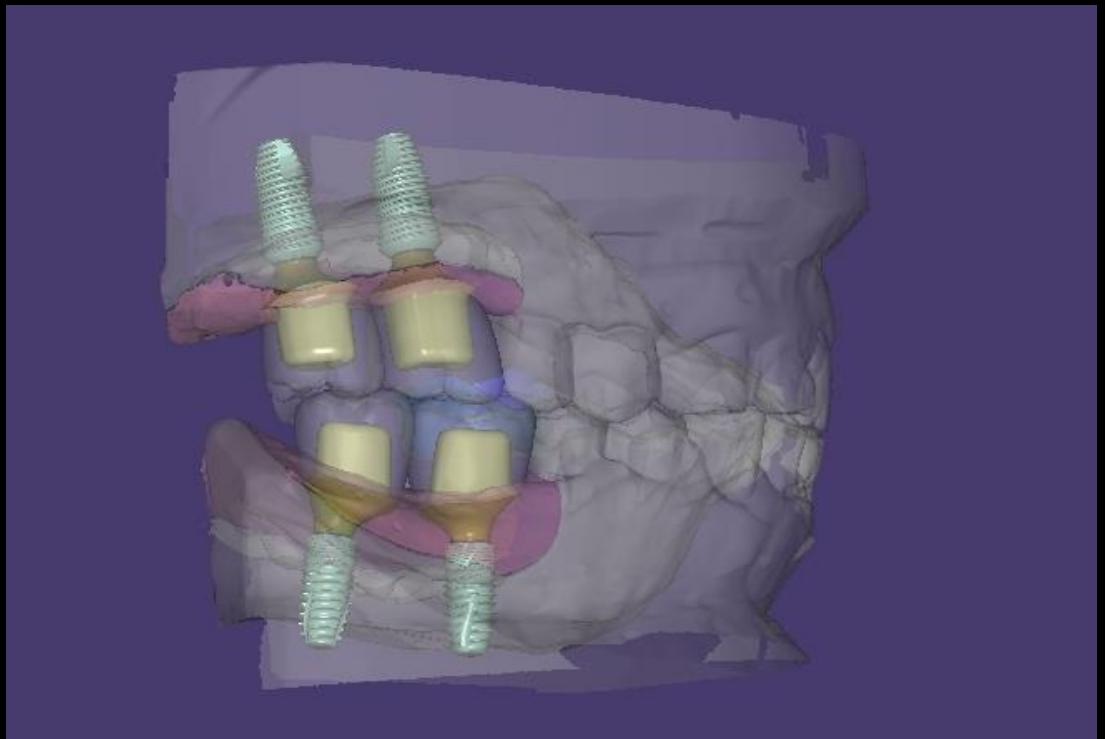
Healing : 2 weeks  
(2016-10-05)



Healing : 2 months 2 weeks  
(2016-12-07)

## Similar case presentation (2)

- Sinus elevation & Removal of Mucocele



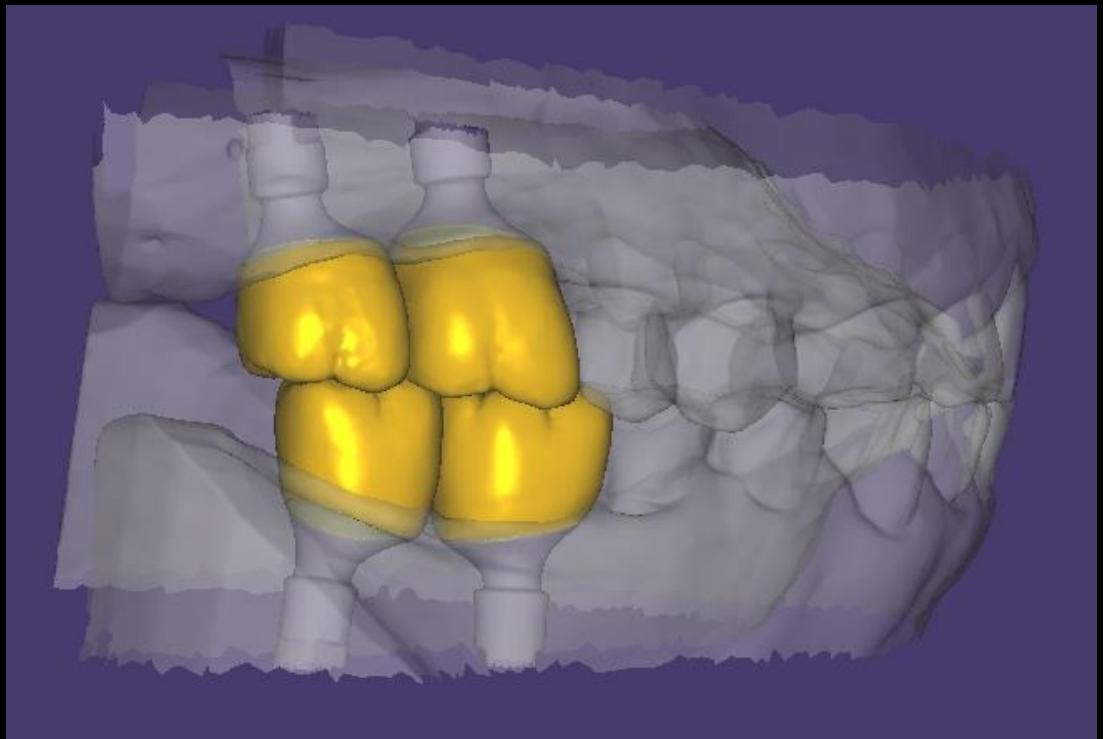
CAD (Provisional restoration)



Provisional restoration  
(2016-12-26)

## Similar case presentation (2)

- Sinus elevation & Removal of Mucocele



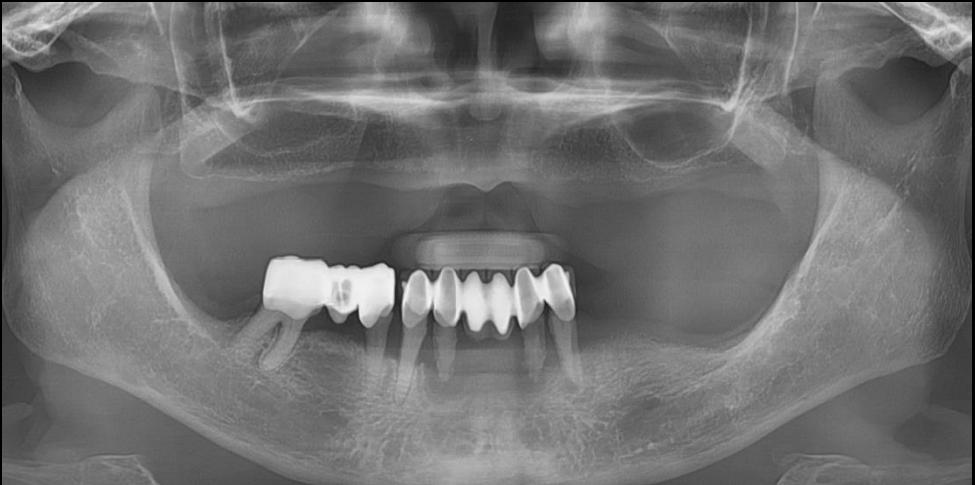
CAD (Final prosthesis)



Final prosthesis  
(2017-03-04)

## Similar case presentation (3)

- Sinus elevation using OSTEON™ 3 Collagen & Implantation on Full mouth case



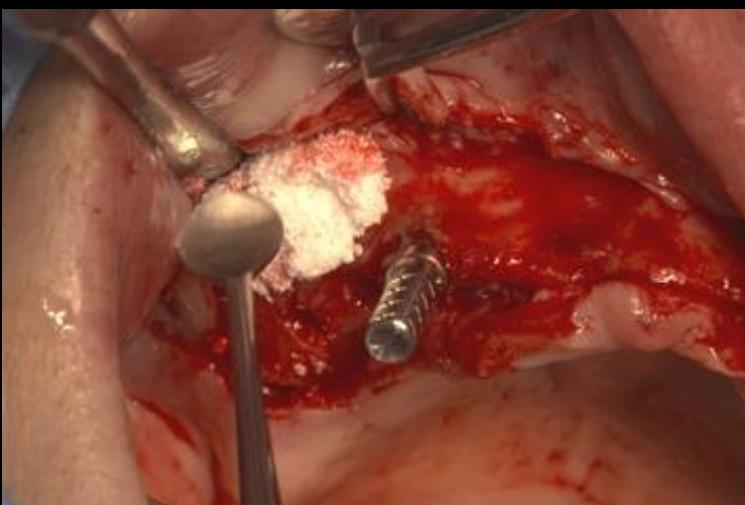
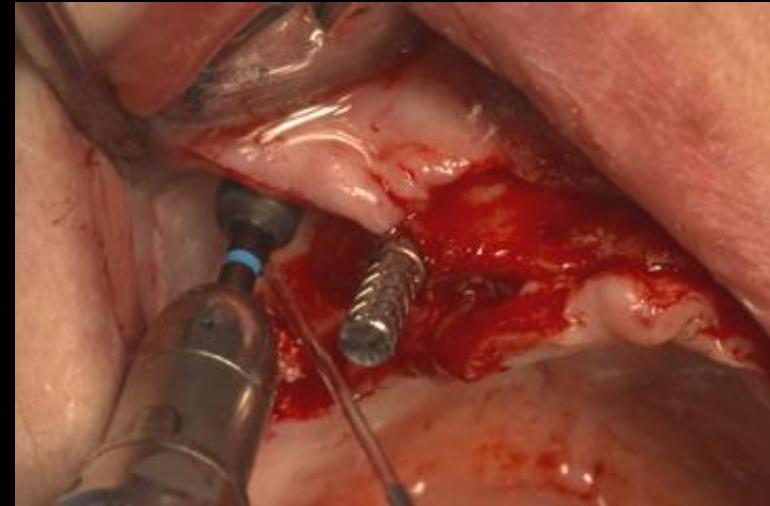
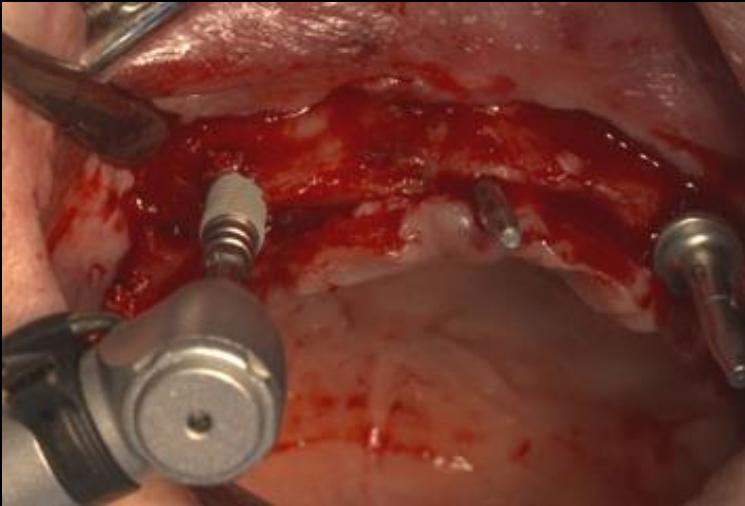
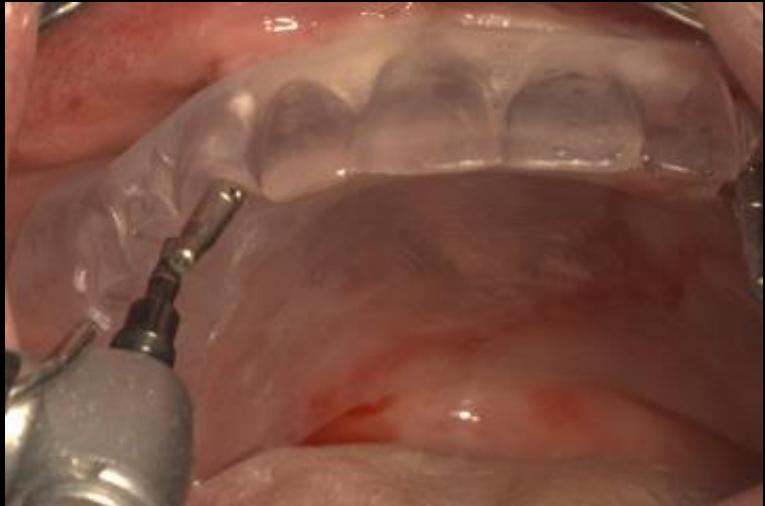
Pre-op (2017-02-10)



Final prosthesis (2018-07-20)

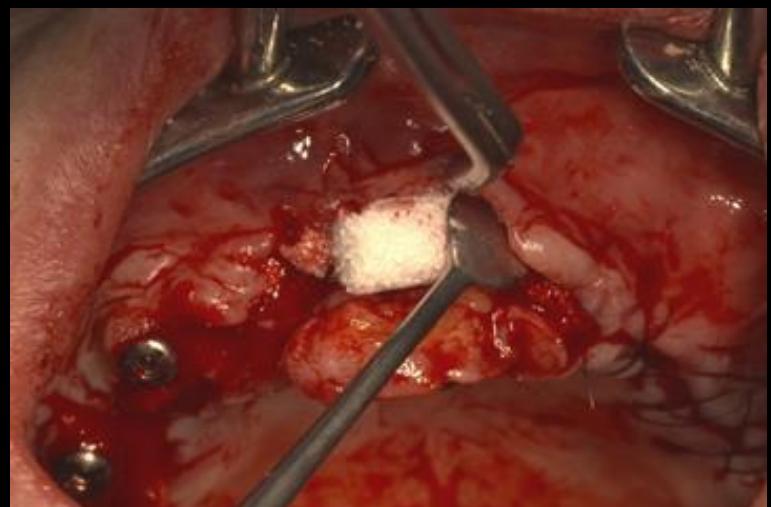
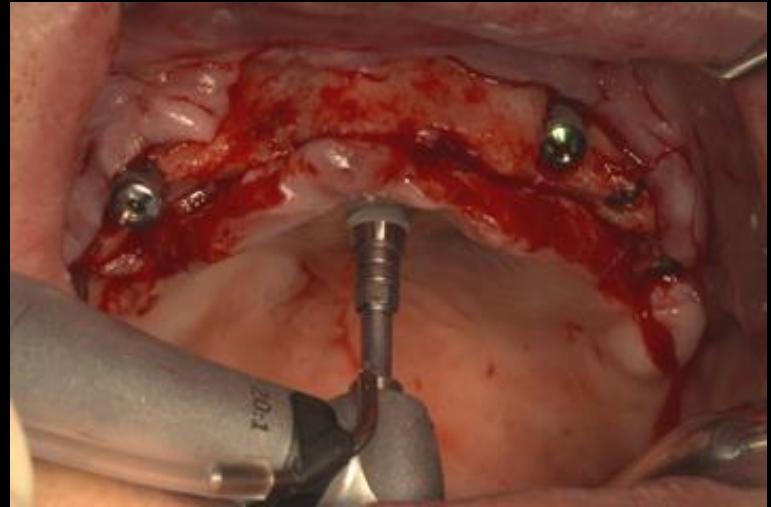
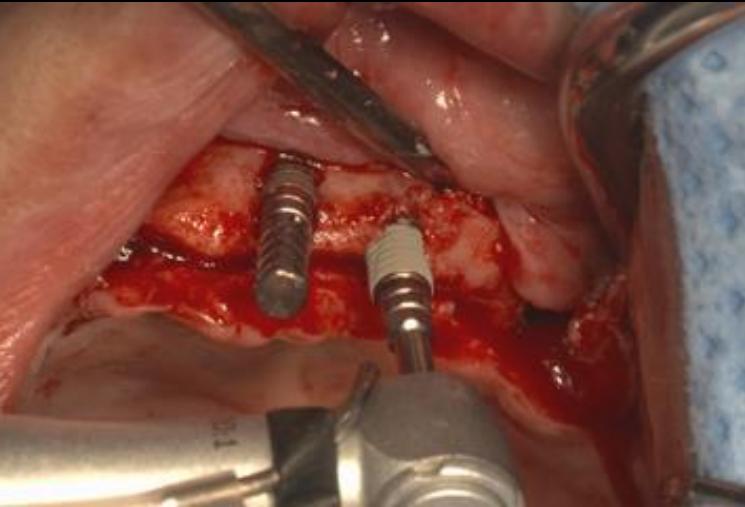
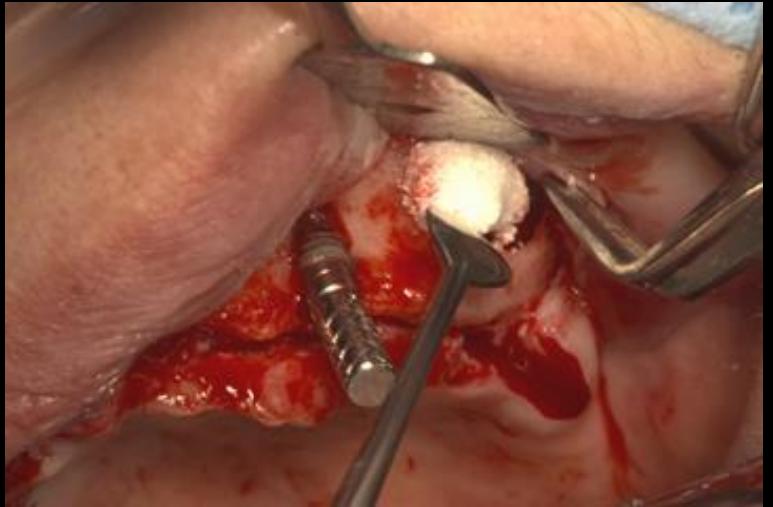
## Similar case presentation (3)

- Sinus elevation using OSTEON™ 3 Collagen & Implantation on Full mouth case



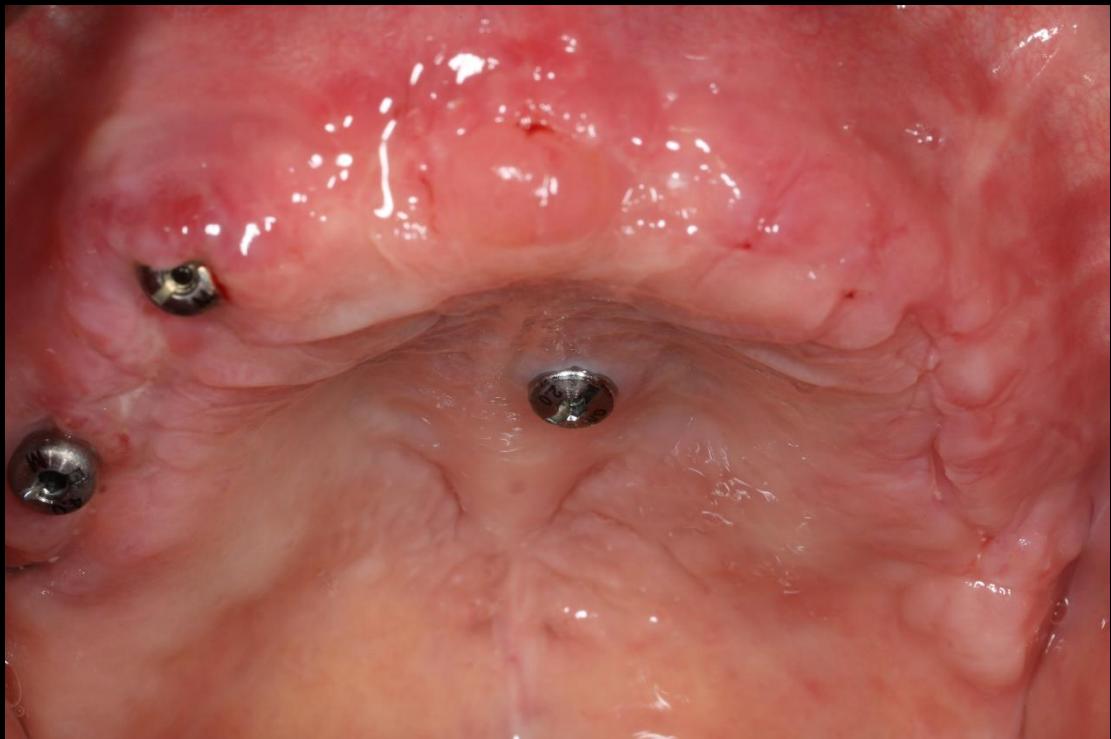
## Similar case presentation (3)

- Sinus elevation using OSTEON™ 3 Collagen & Implantation on Full mouth case



## Similar case presentation (3)

- Sinus elevation using OSTEON™ 3 Collagen & Implantation on Full mouth case



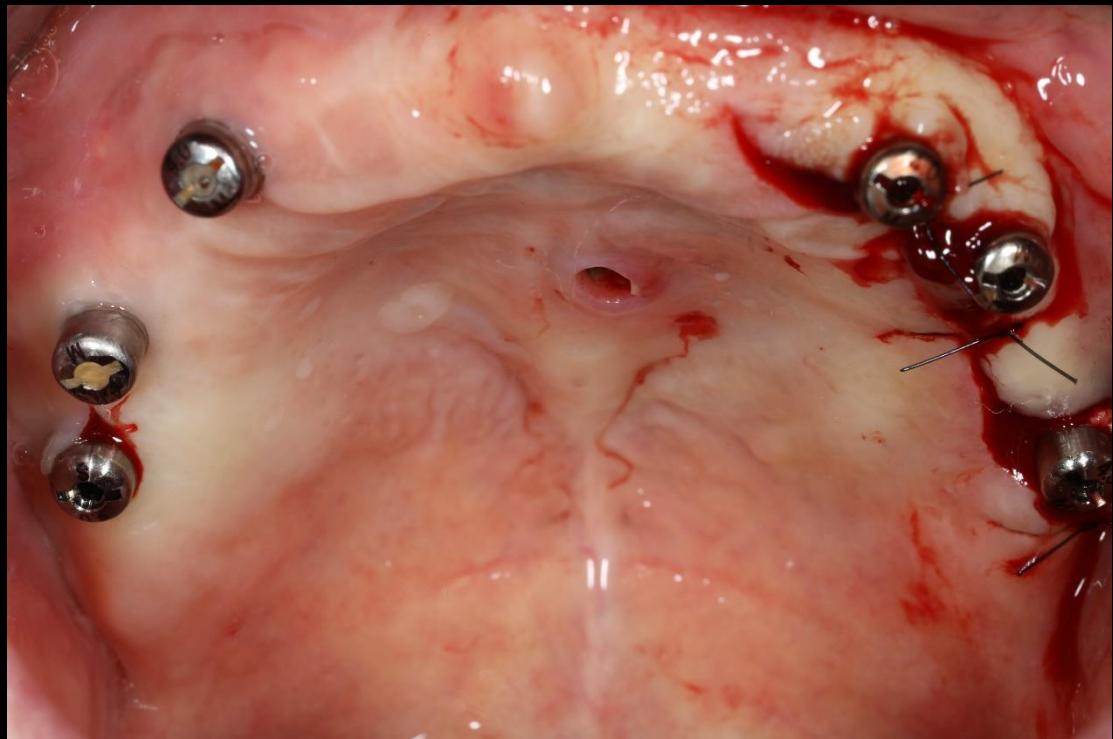
Healing : 3 weeks  
(2017-03-09)



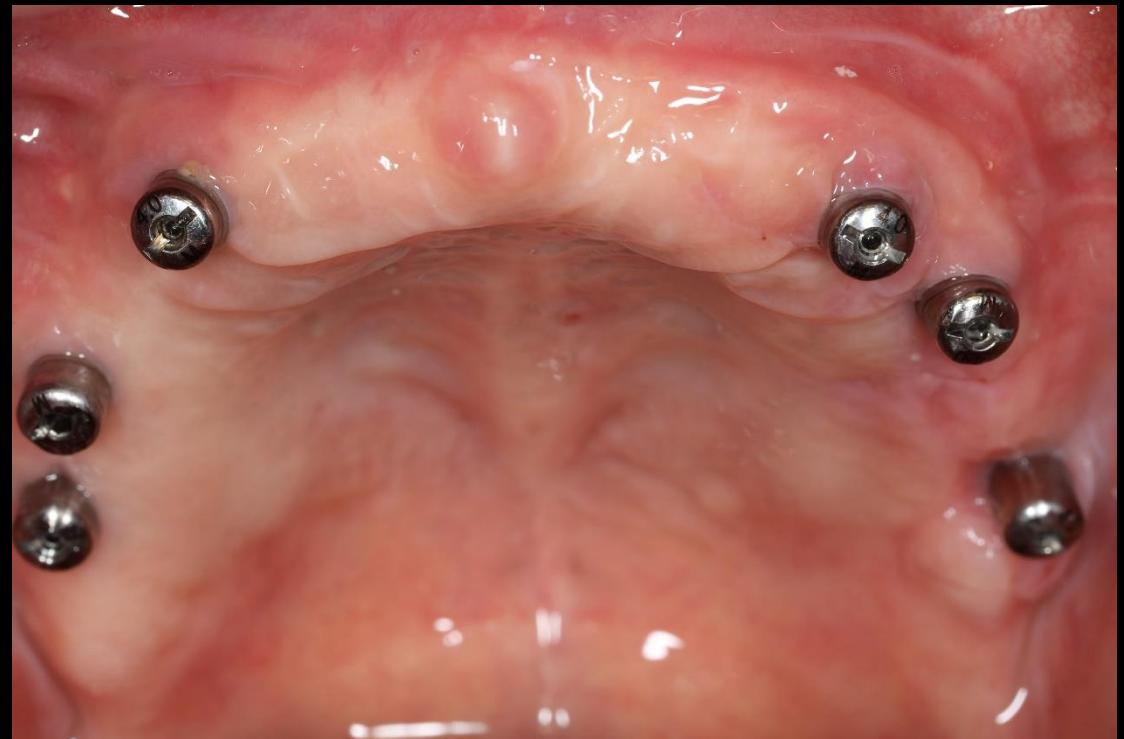
Temporary Denture  
(2017-04-12)

## Similar case presentation (3)

- Sinus elevation using OSTEON™ 3 Collagen & Implantation on Full mouth case



Second stage surgery  
/ Removal of Maxilla implant  
(2017-12-07)



Healing : 2 weeks (After S.S.S.)  
(2017-12-21)

## Similar case presentation (3)

- Sinus elevation using OSTEON™ 3 Collagen & Implantation on Full mouth case



Provisional restoration  
(2018-01-26)



Final prosthesis  
(2018-07-20)