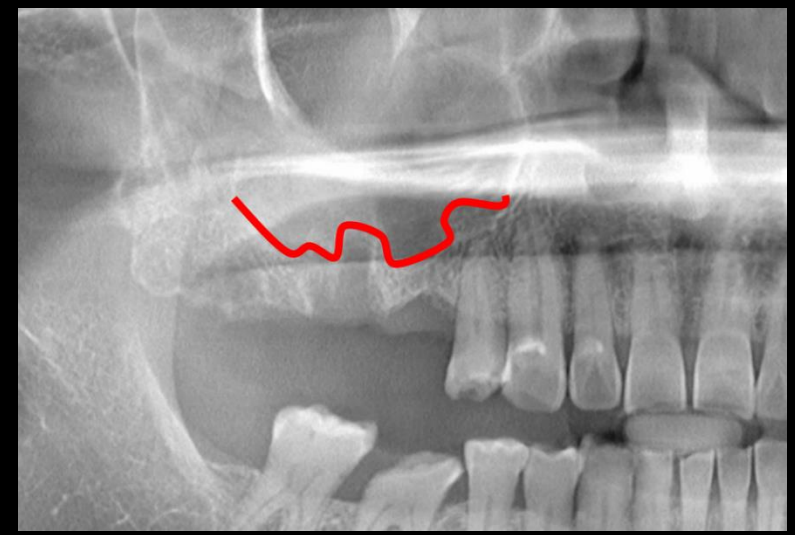


# Sinus elevation on irregular sinus lower border site with Minimalism



Dr. SM Chung

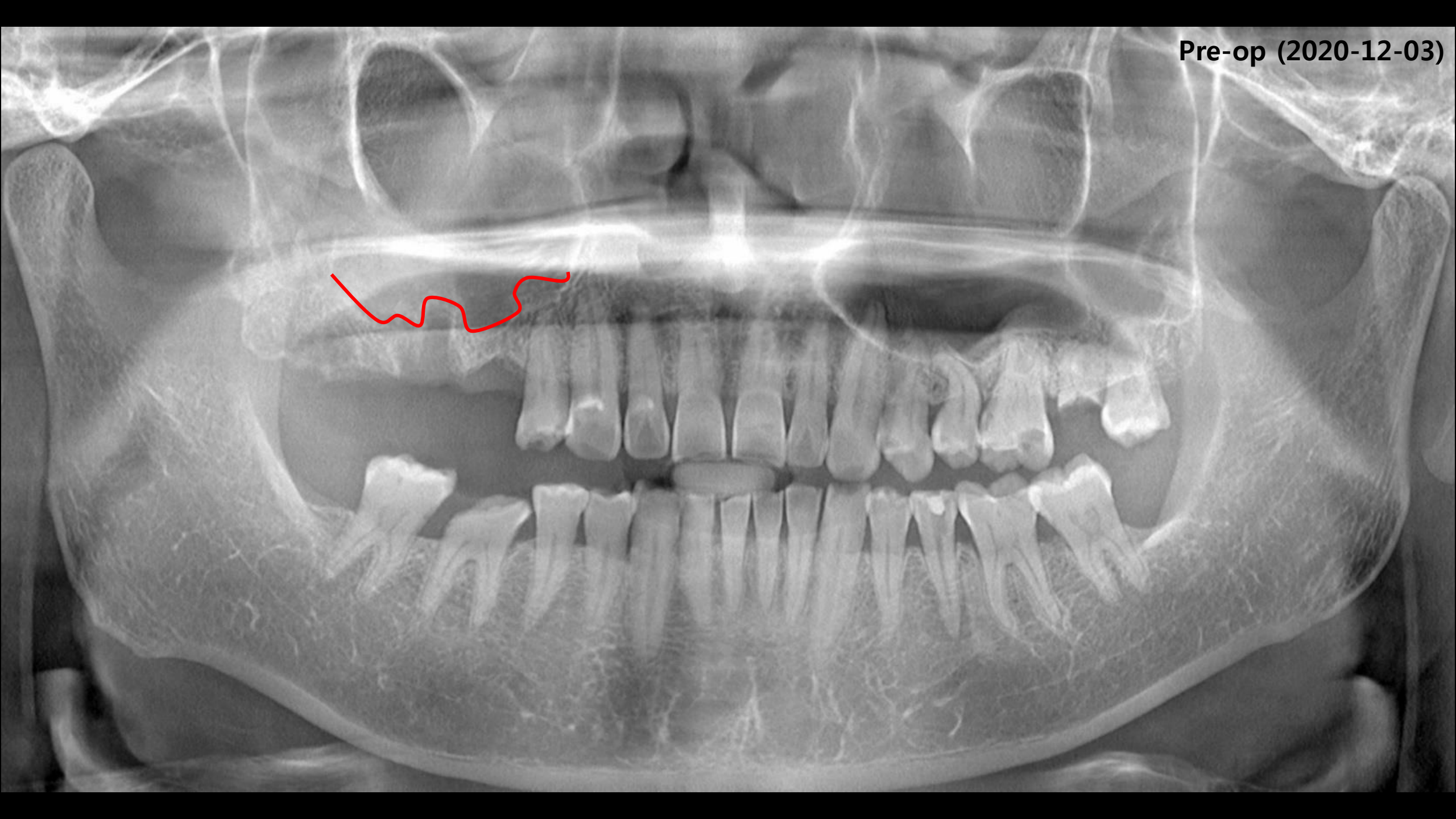
2020.12.15 (Tue)

Pre-op (2020-12-08)

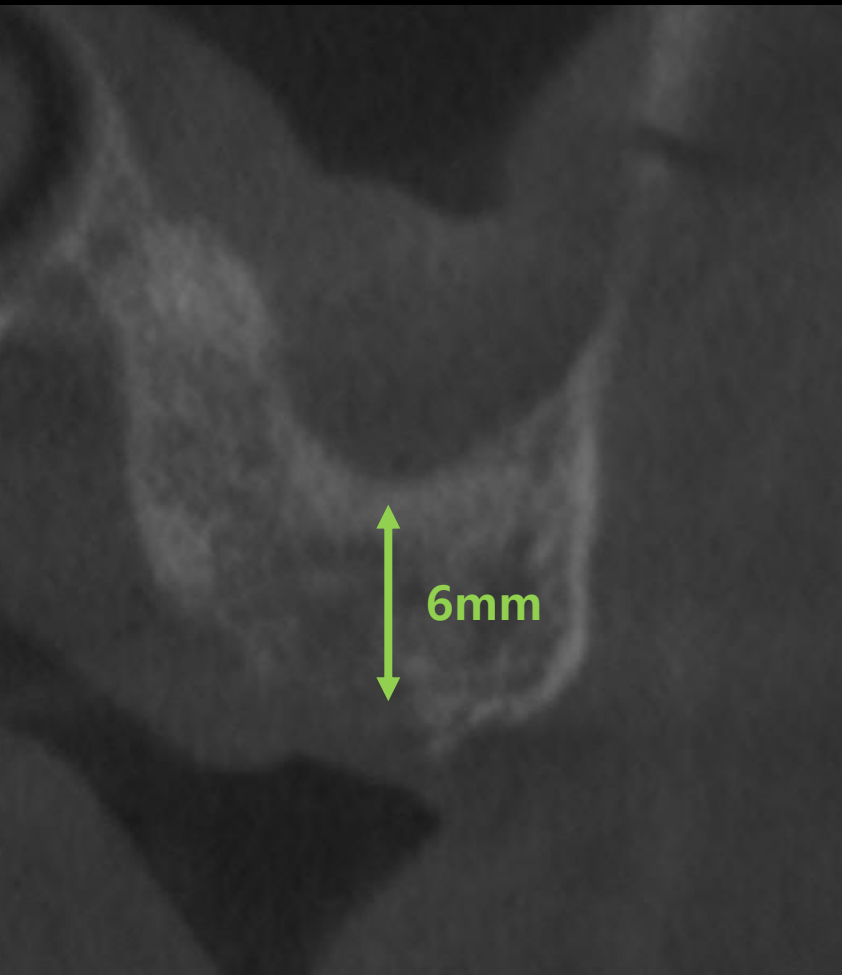




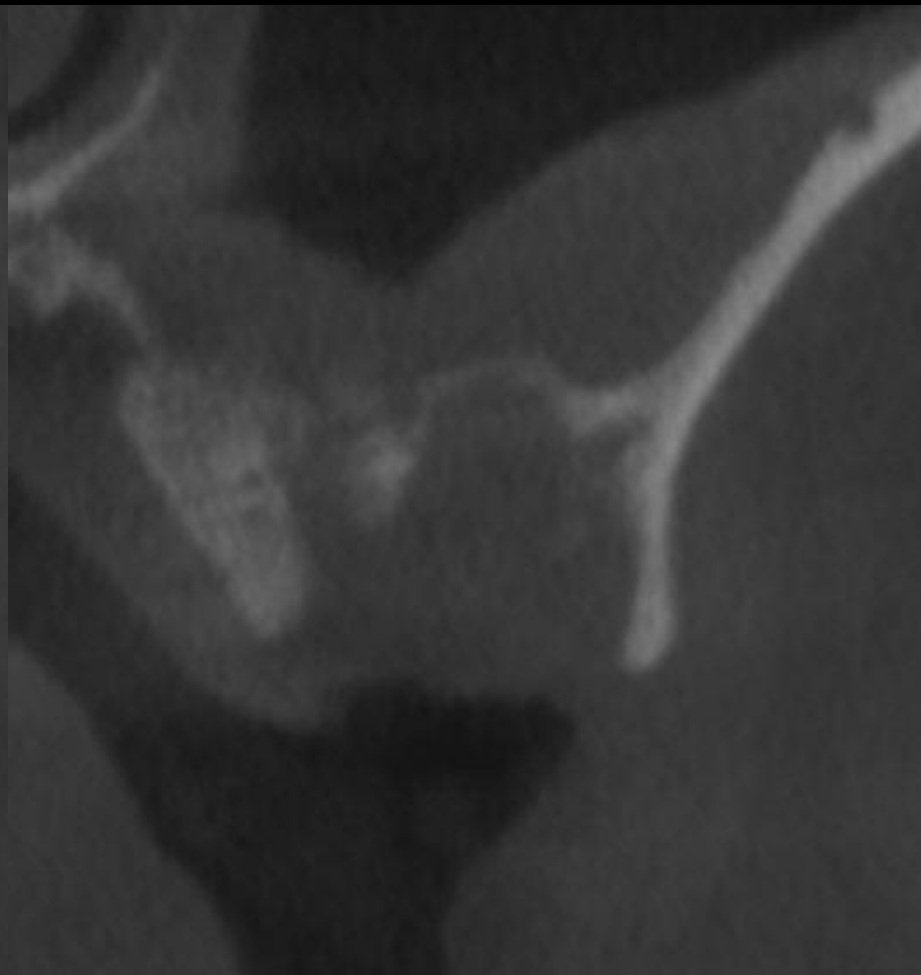
Pre-op (2020-12-03)



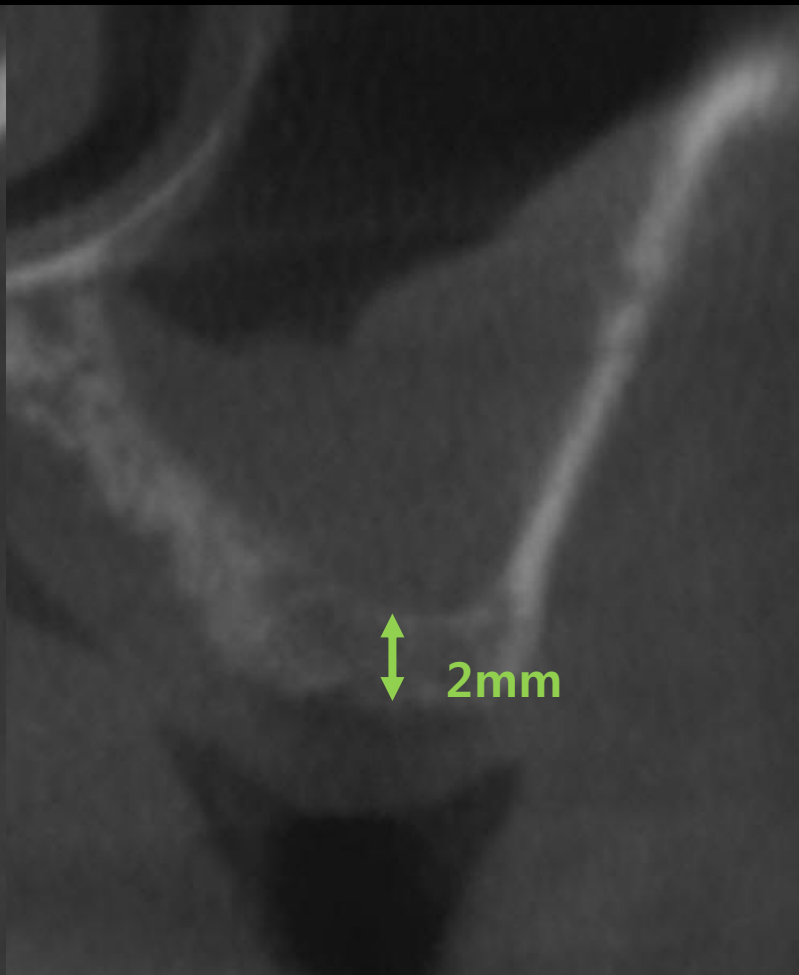
Pre-op (2020-12-07)



#17



#16



#15

## Sinus Guide

Random, due to Dr's diverse preference

Remaining bone

< 4mm – Lateral Approach

> 4mm – Crestal Approach

## Crestal Approach

Amount of bone to augment

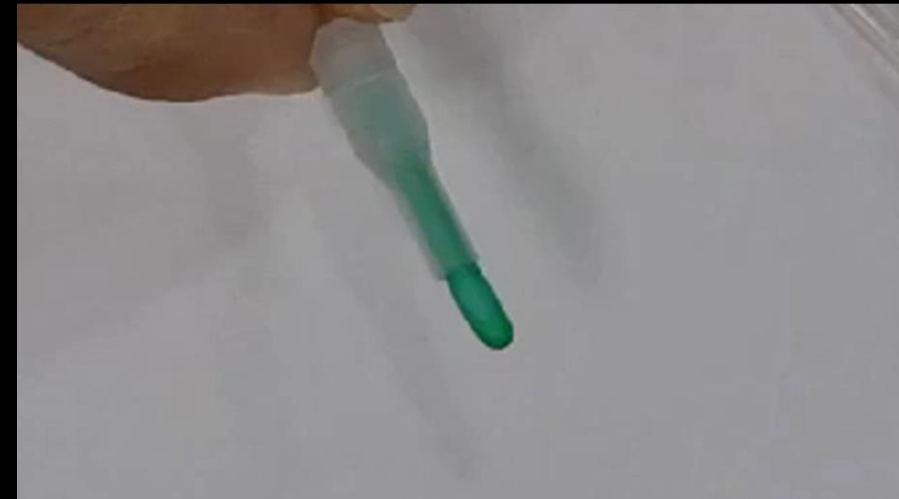
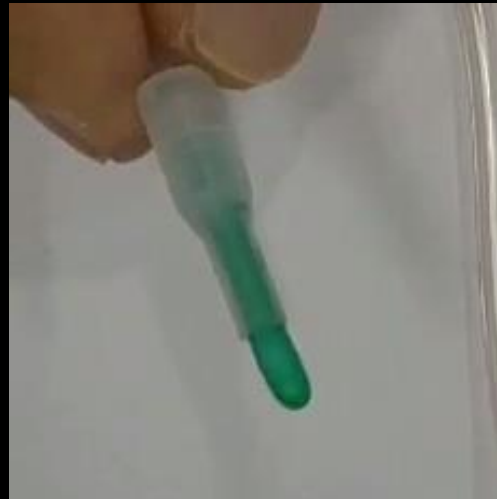
< 3mm – Bicortical fixation  
Osteotome  
Compaction drill



# Crestal Approach

Amount of bone to augment

> 3mm – Crestal drill  
Sinus balloon





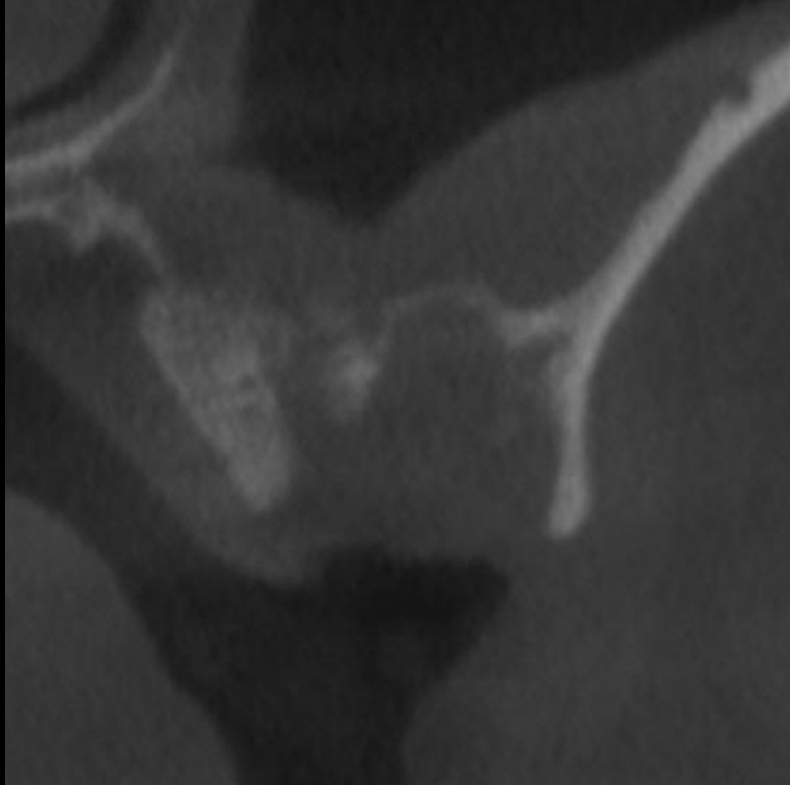
## Surgery Plan (#15)



- Lateral approach
- Small incision (Flapless surgery with palatal semilunar incision)
- Check the sinus Ds

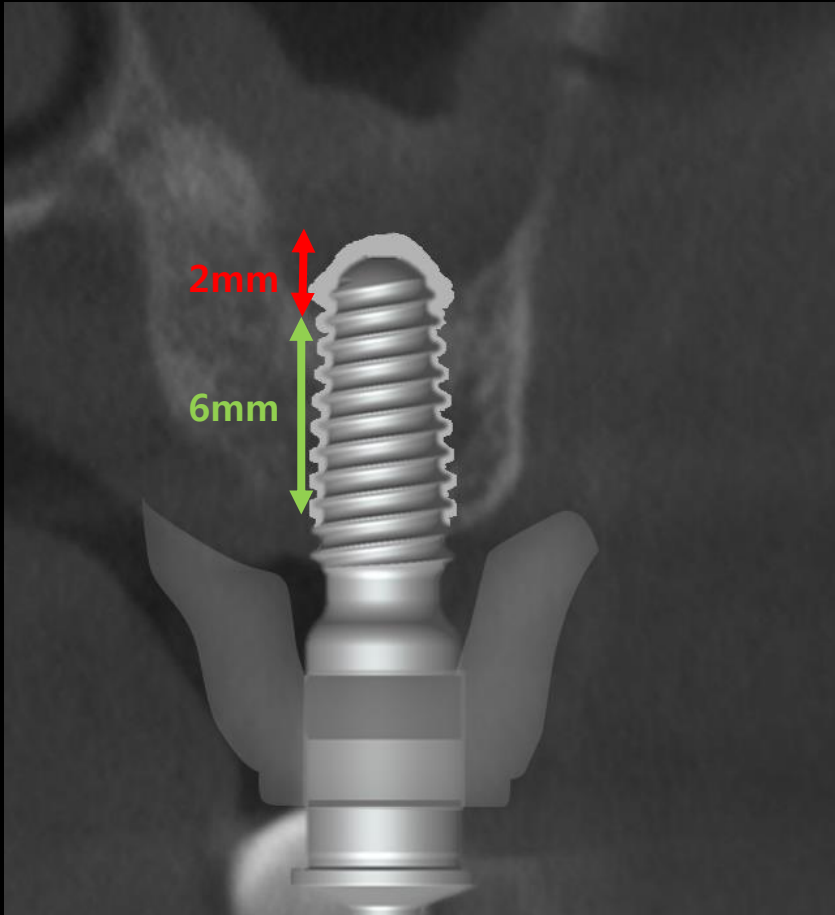


## Surgery Plan (#16)

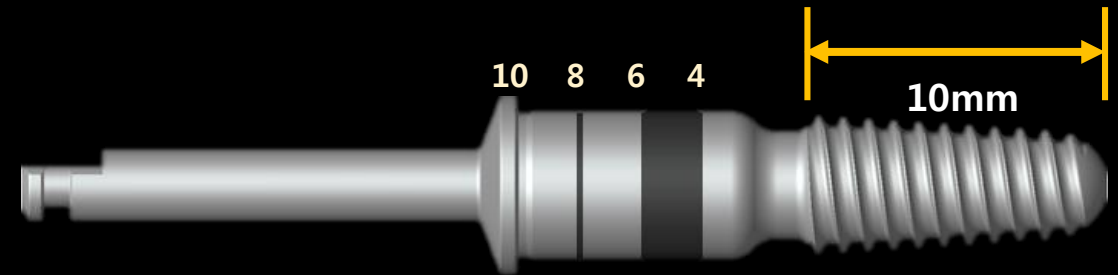


- Avoid that site due to irregular sinus floor (Recent Extraction)

# Surgery Plan (#17)

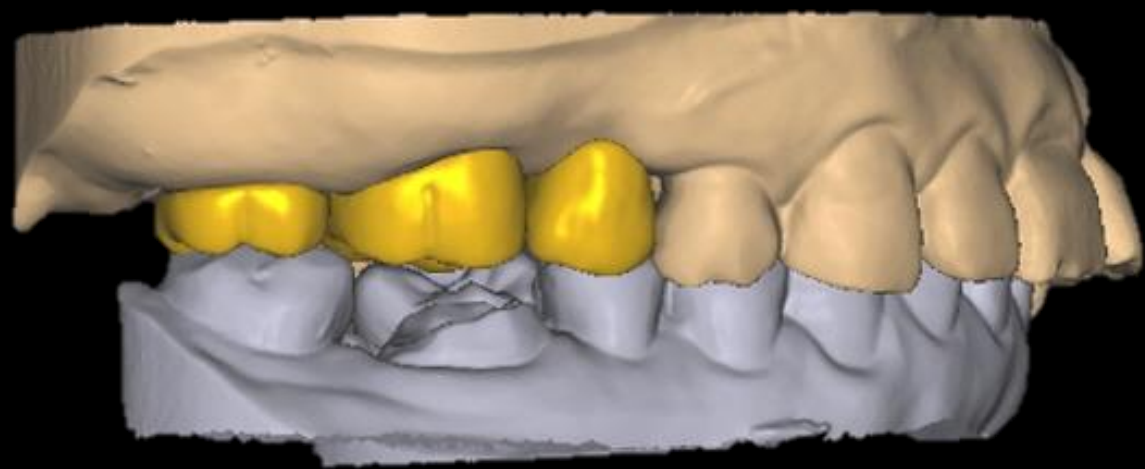


## Ridge Spreader (Digital Guide)

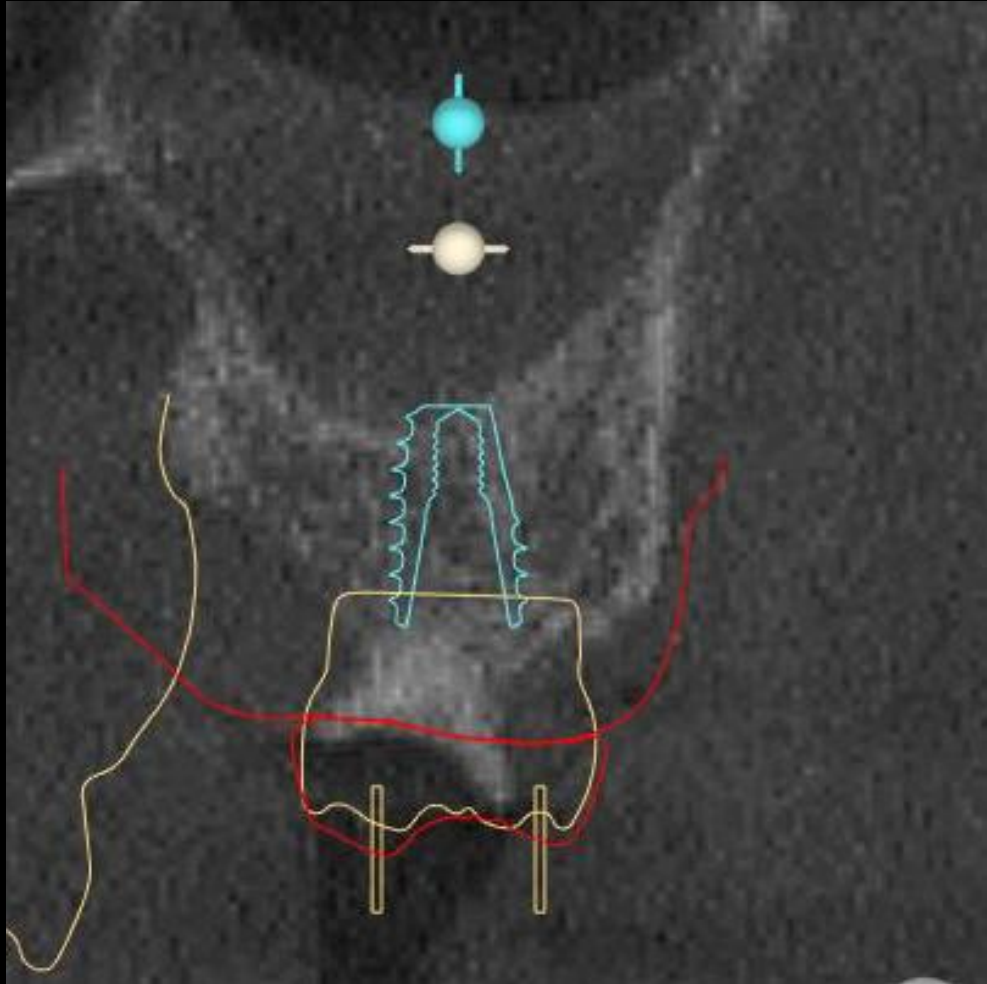


- Flapless surgery
- Crestal approach with spreader drill

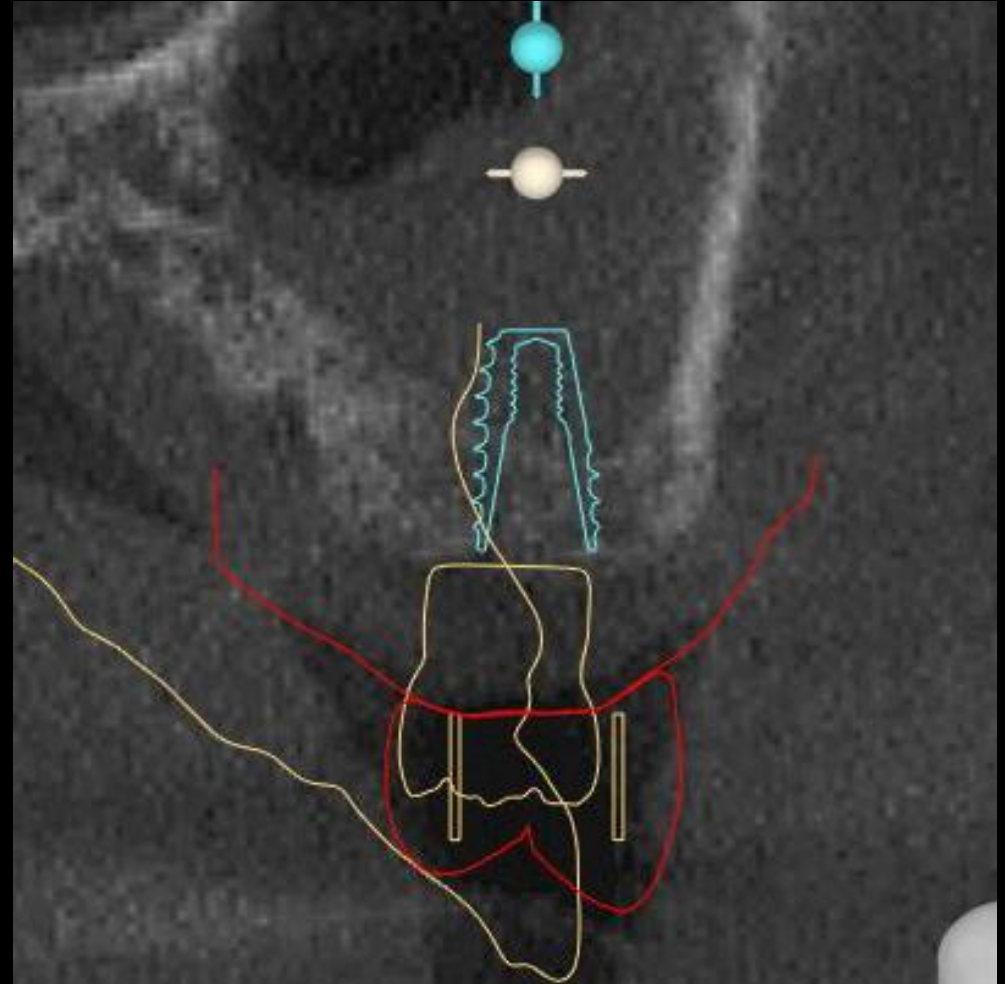
# Virtual Set-up



# Implant Planning



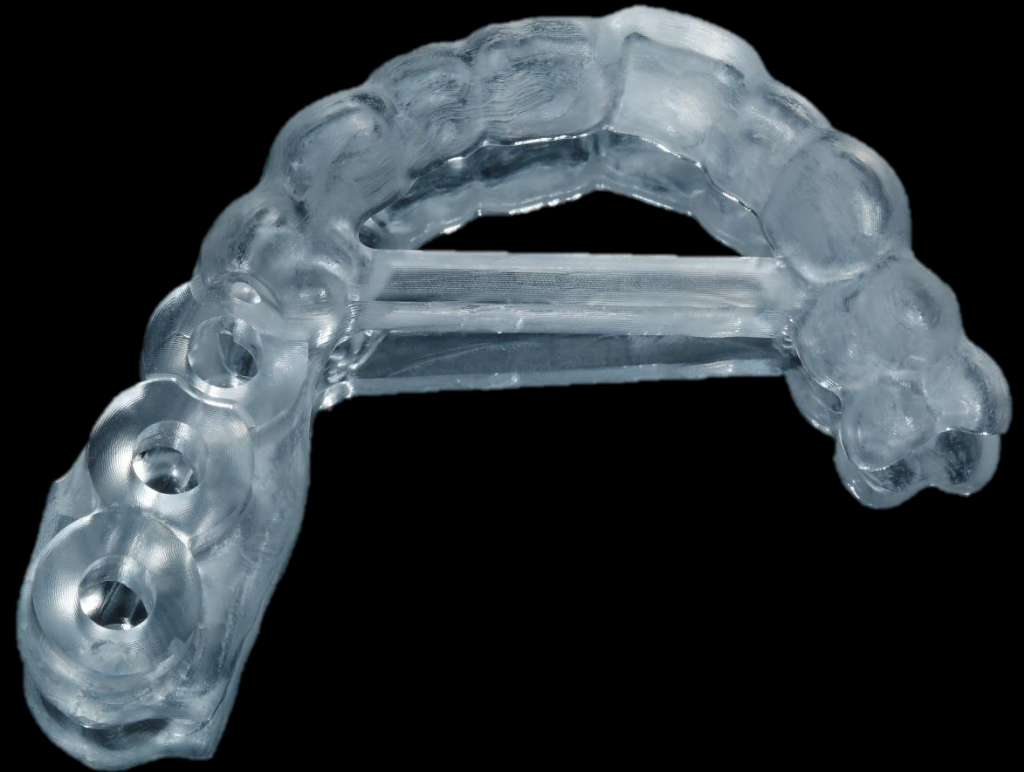
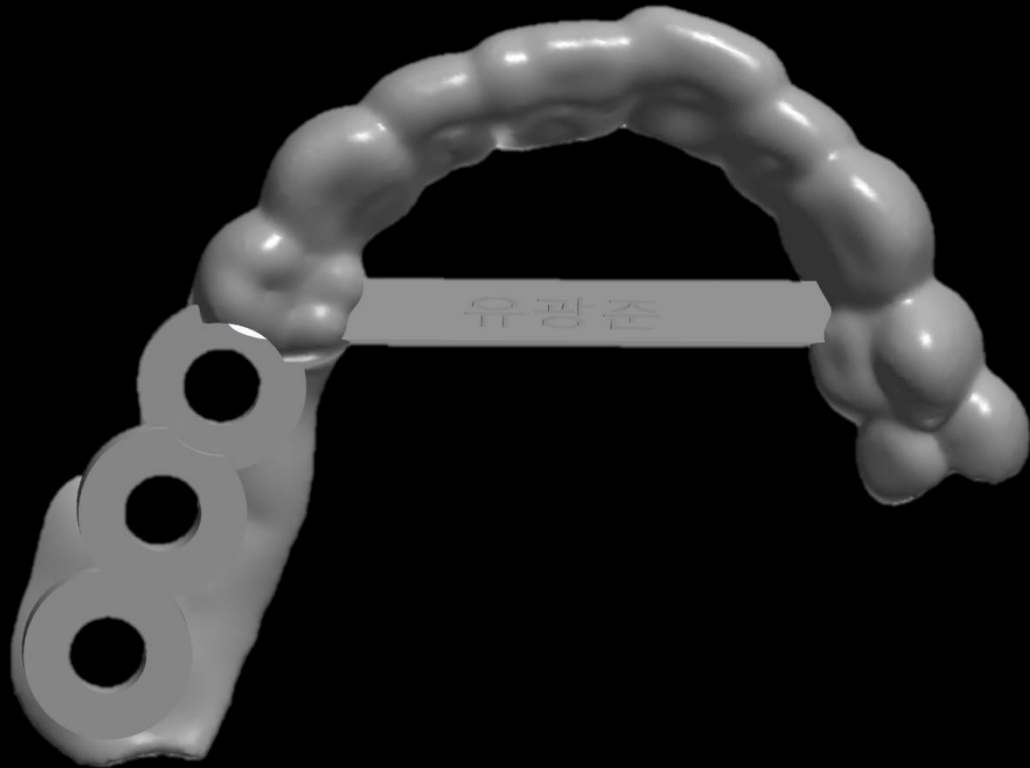
#17



#15



# Stent Design / Stent Milling



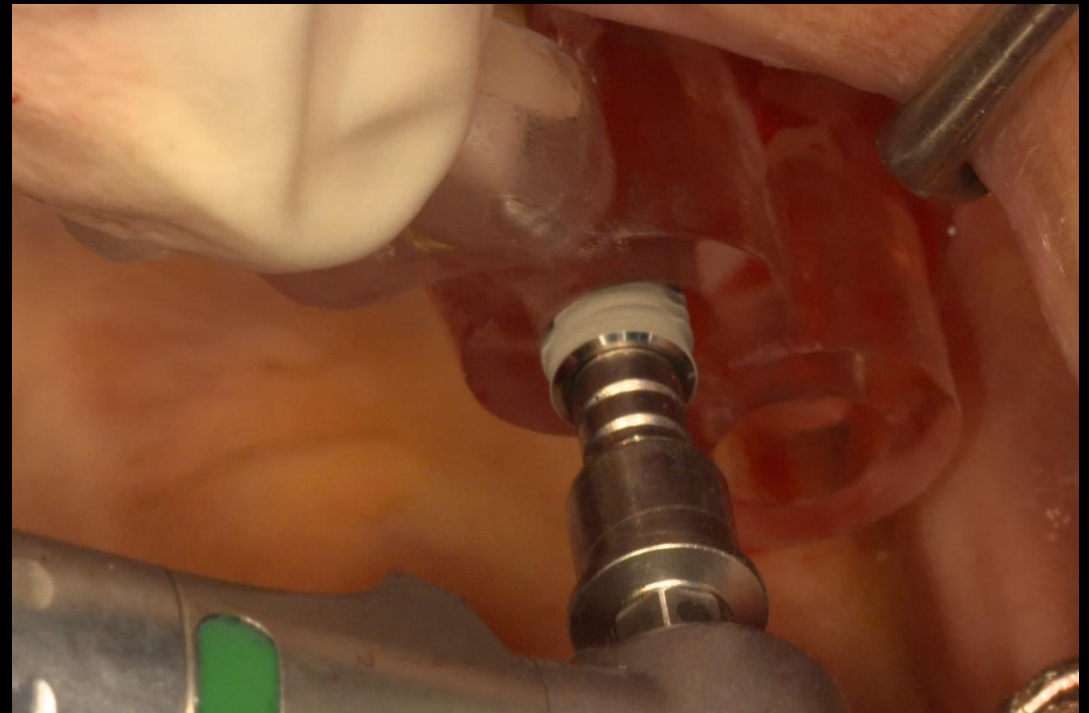
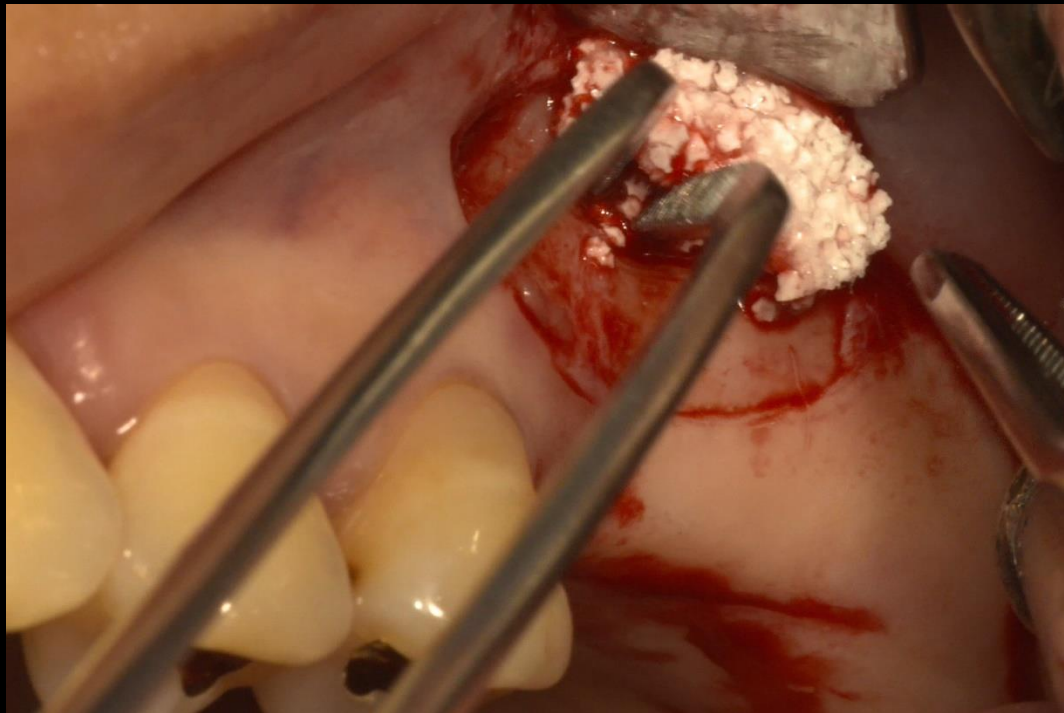
**Similar case 1**

Incision technique : Under Mucogingival junction 2mm



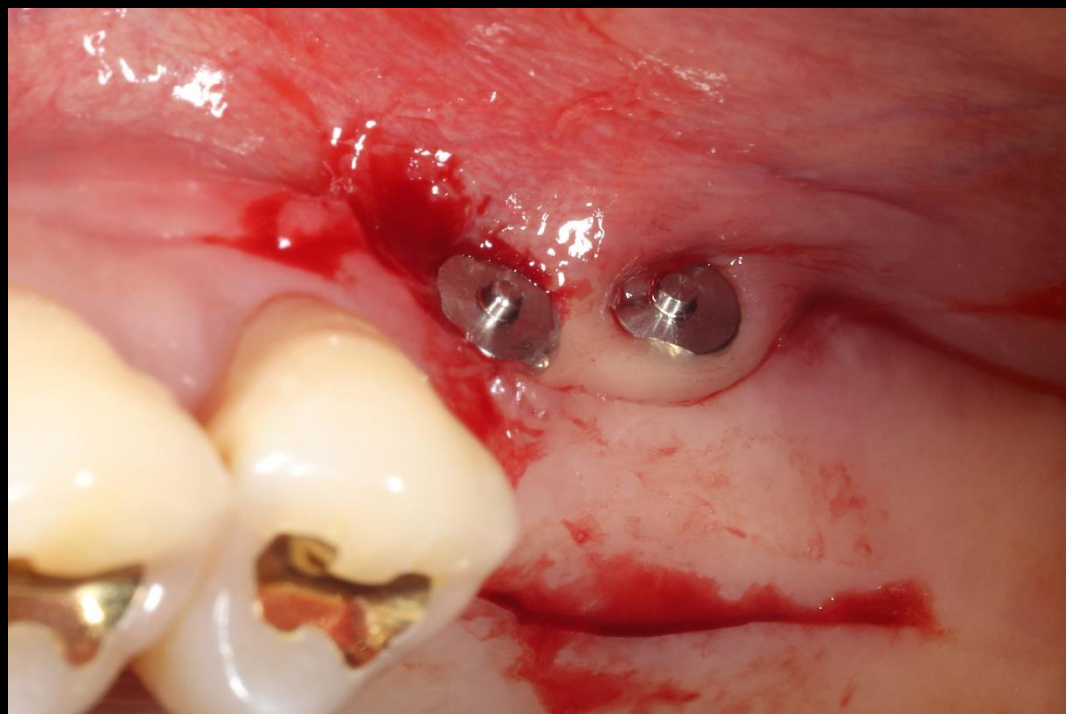
## Similar case 1

Incision technique : Under Mucogingival junction 2mm



**Similar case 1**

Incision technique : Under Mucogingival junction 2mm



**Provisional restoration**

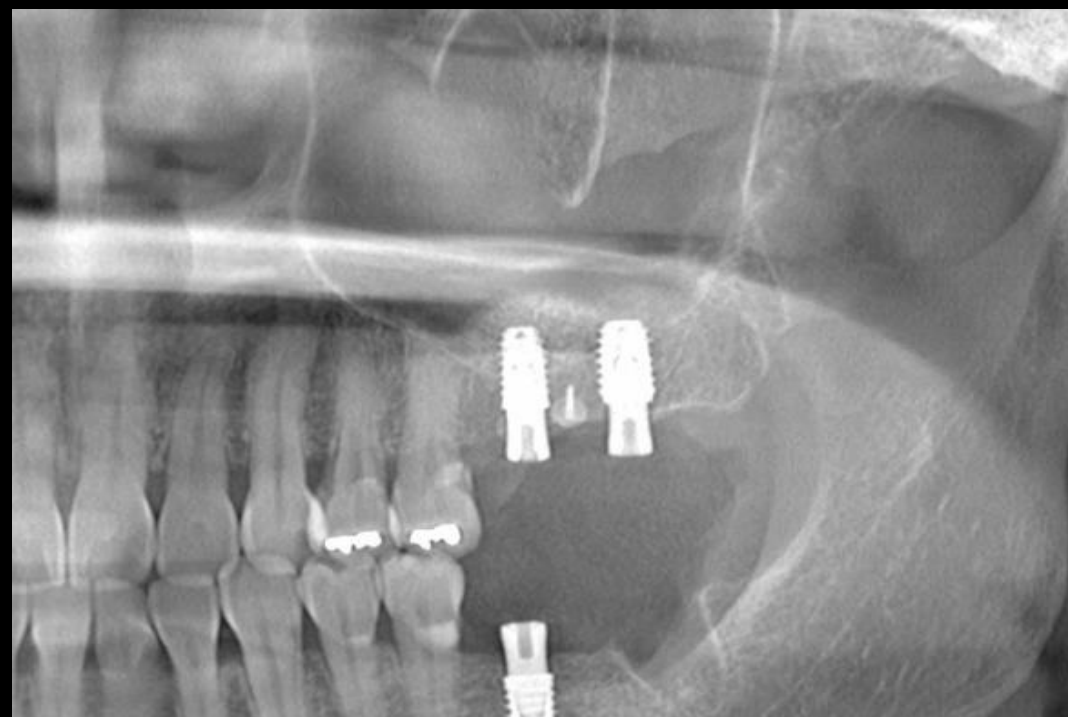


## Similar case 1

Incision technique : Under Mucogingival junction 2mm



Pre-op



Post-op

## Similar case 2

Incision technique : Semilunar incision



## Similar case 2

Incision technique : Semilunar incision

