

Maxillary Sinus Floor Lift Using Only a Dental Implant



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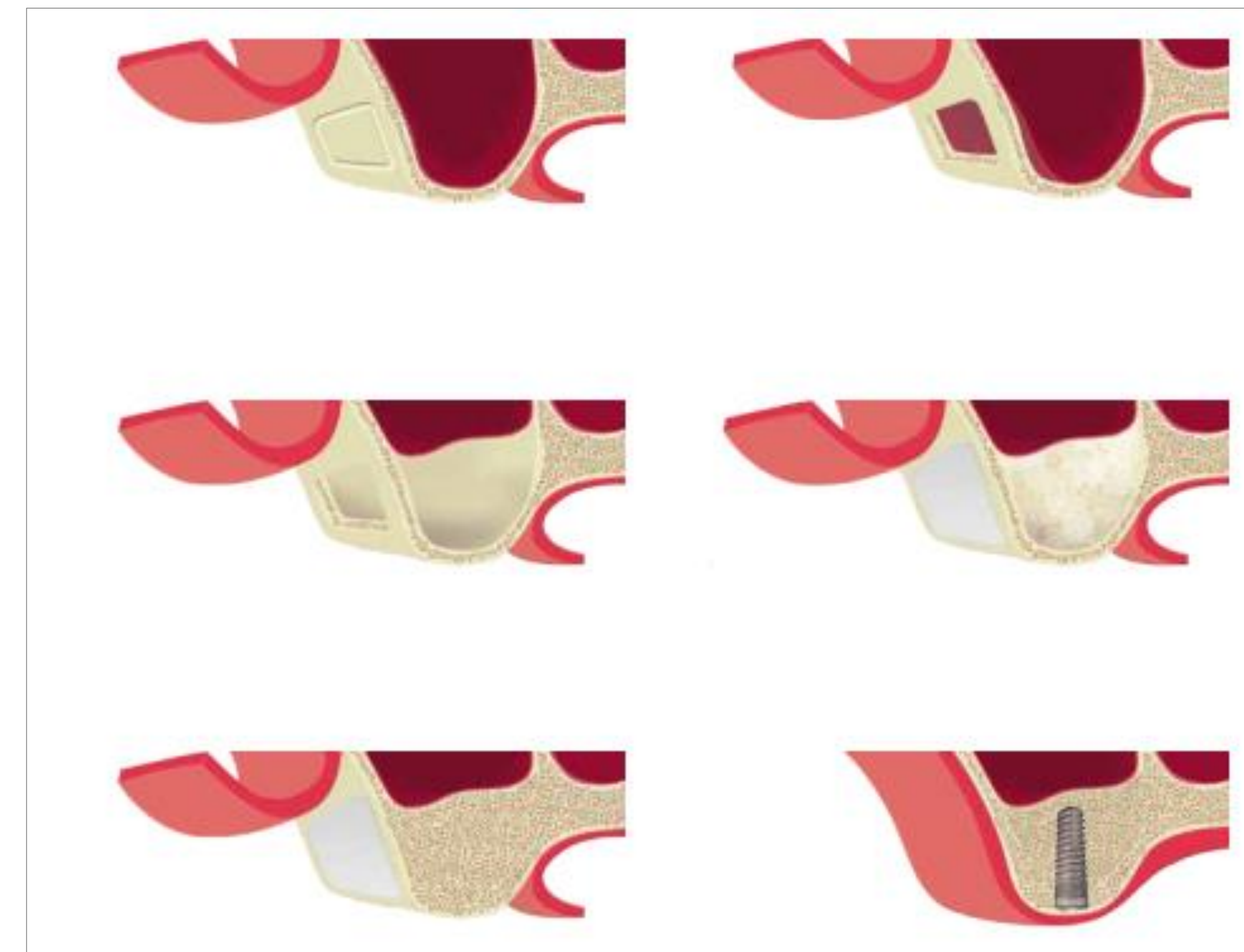


INTRODUCTION

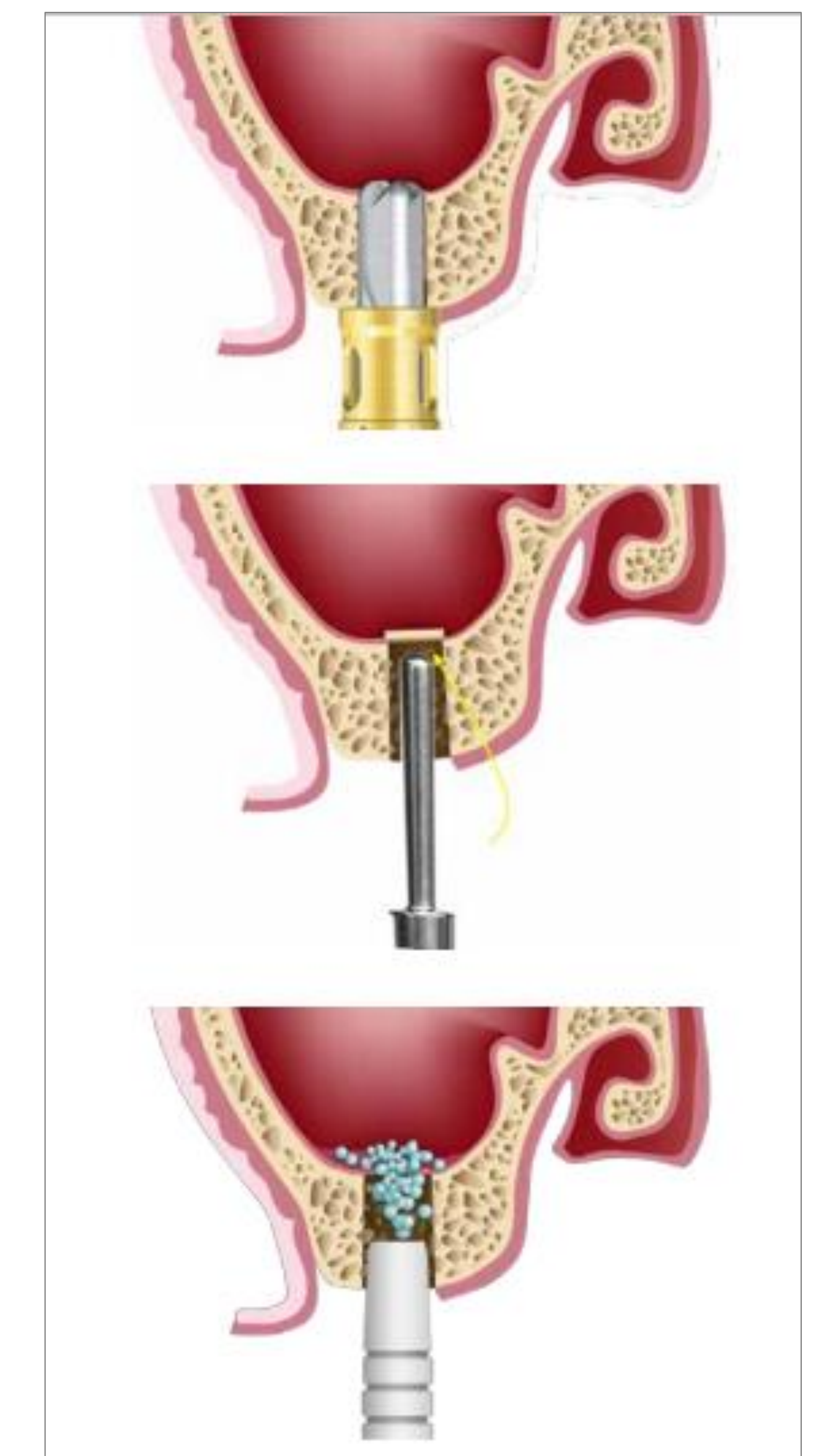
One of the most frequent challenges after the loss of posterior maxillary teeth is pneumatization of the maxillary sinus because this event generates a reduction of the alveolar bone height available for implants.

Different treatment options exist for elevation of the sinus floor. Crestal access and lateral window approaches are the most frequently used in current implantology¹, using a bone graft for both techniques

The aim of this presentation is to describe a simple and conservative surgical technique for the maxillary sinus floor lift using only a dental implant.



Lateral window technique²



Technique for
Crestal Approach²

1. Parra M, Olate S, Cantín M. Clinical and biological analysis in graftless maxillary sinus lift. J Korean Assoc Oral Maxillofac Surg. 2017 Aug;43(4):214-220

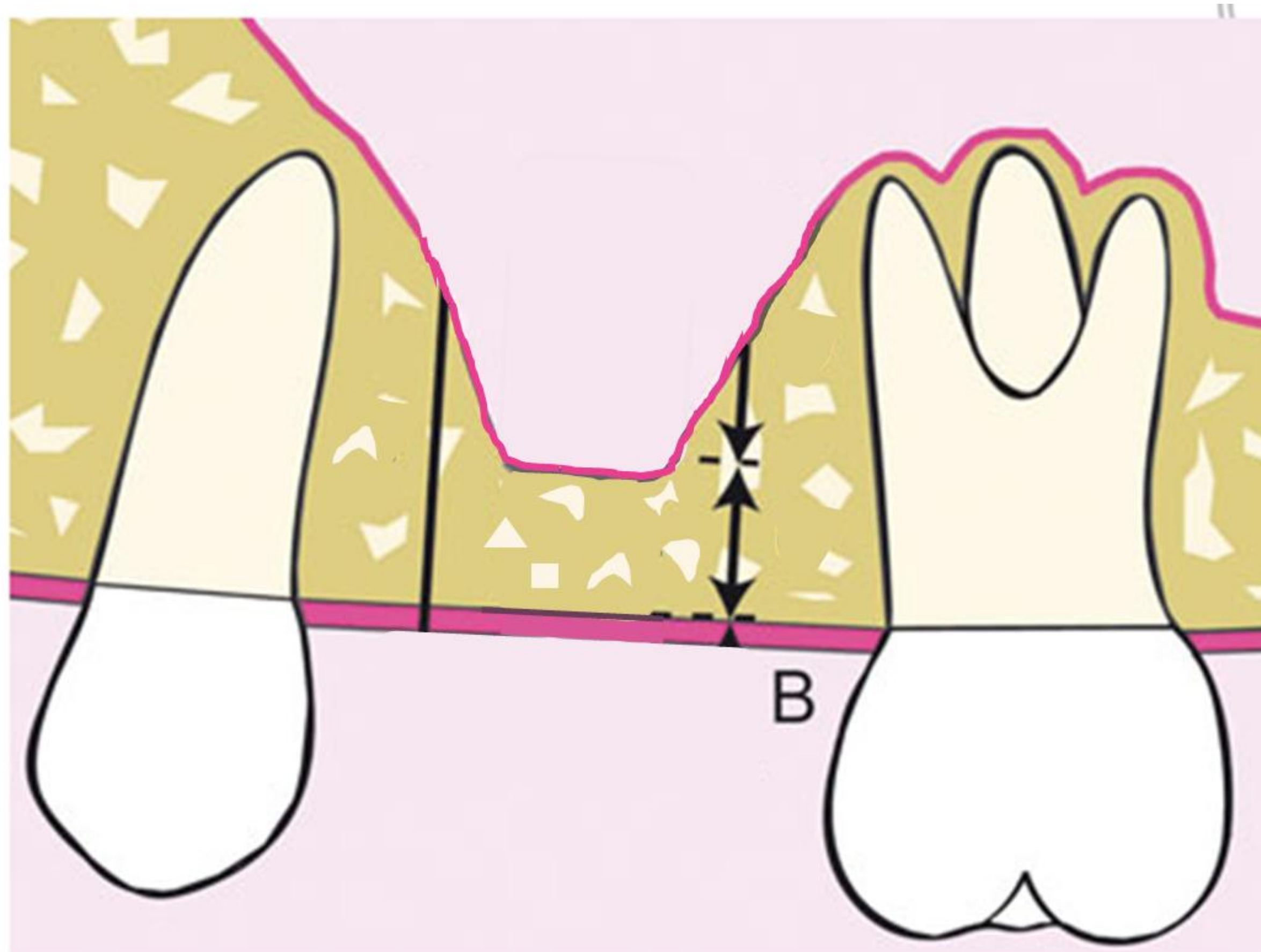
2. Maxillary Sinus Bone Grafting. Arun K. Garg, Gustavo Mugnolo. Garg Multimedia group. First Ed . 2017. chapter 5 and 6

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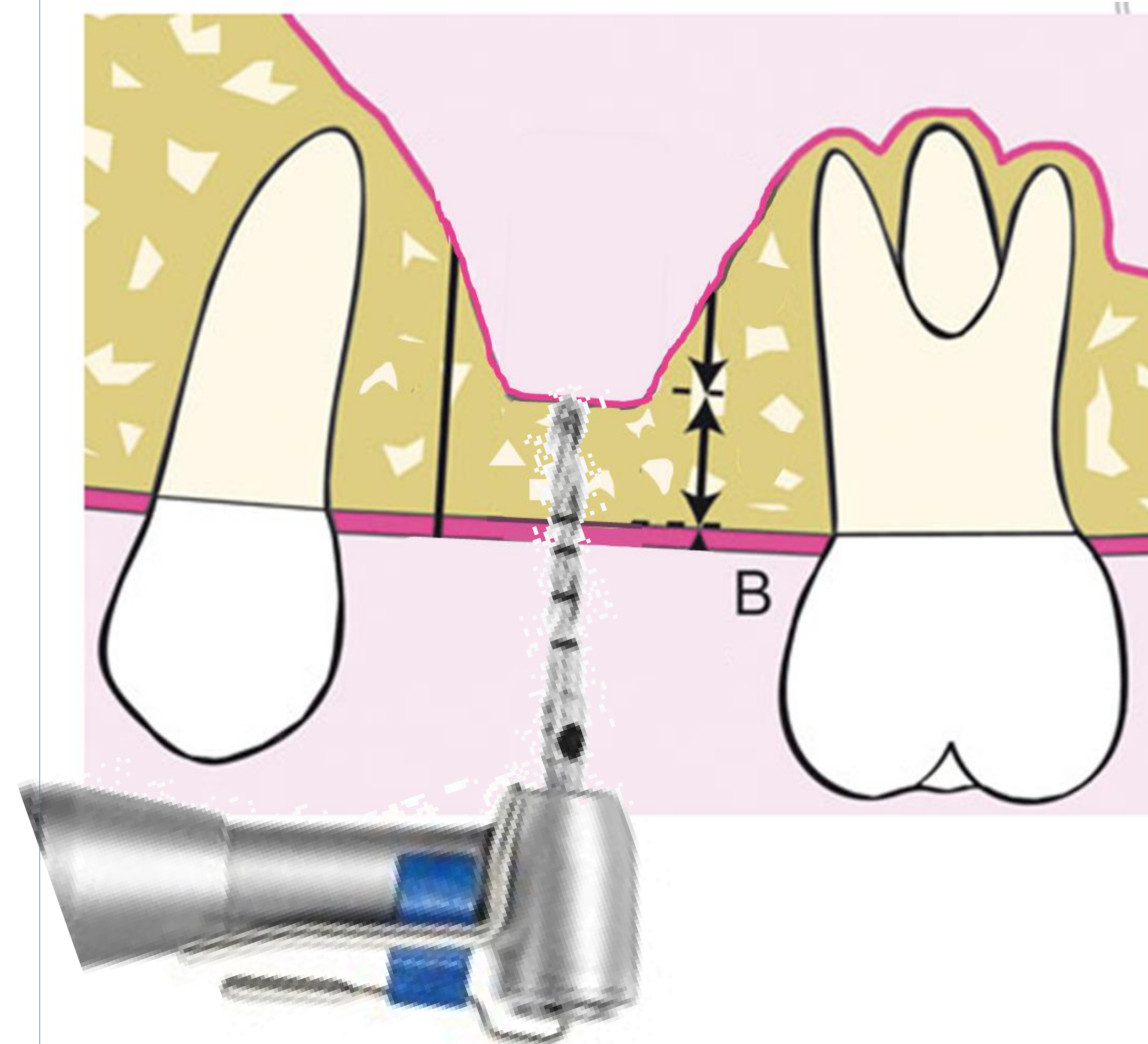


METHODS

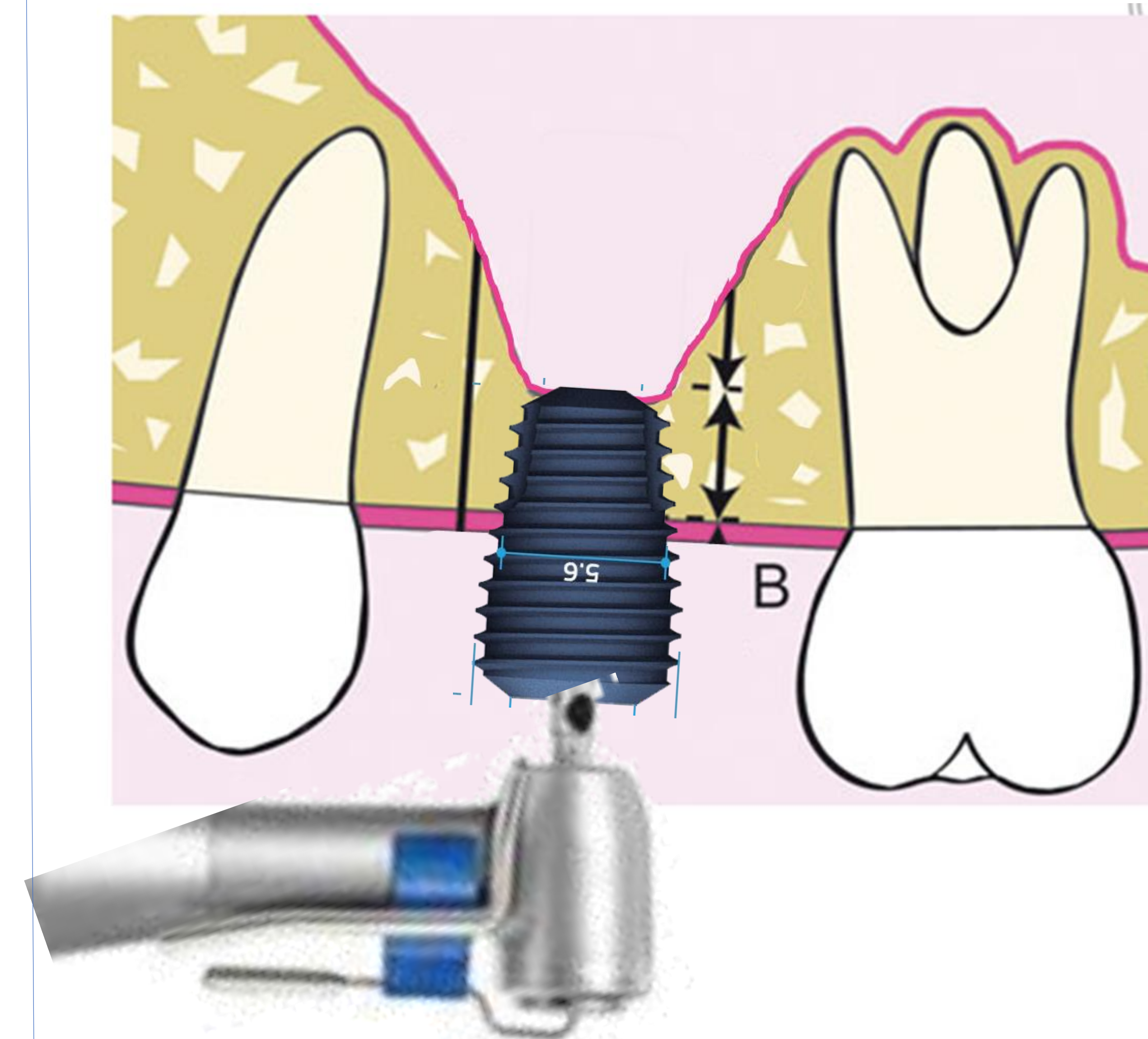
Low residual amount of bone
crest (4mm)



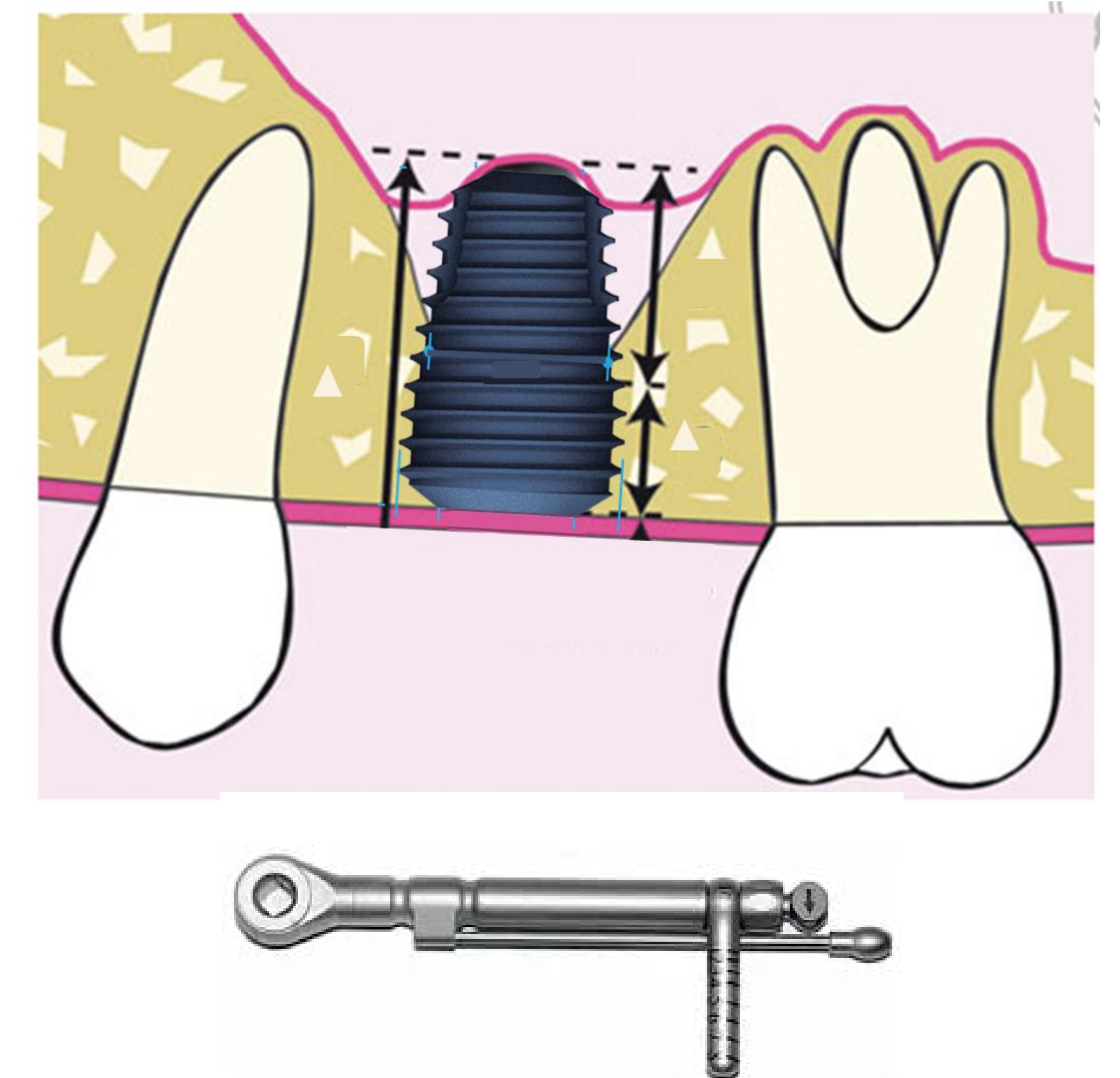
Drilling protocol limited at
4mm length



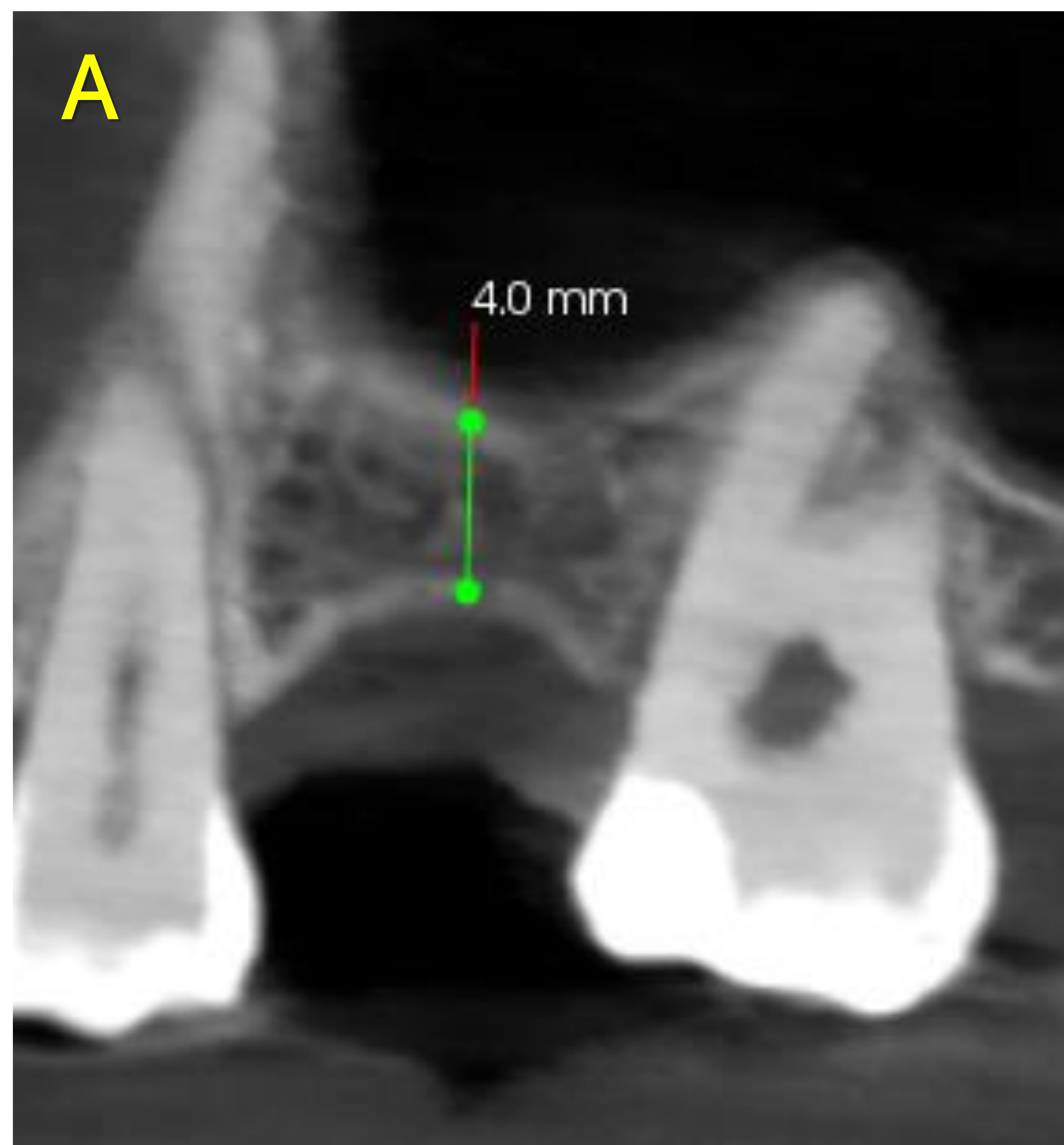
Implant placement using
handpiece limited at 4mm
length



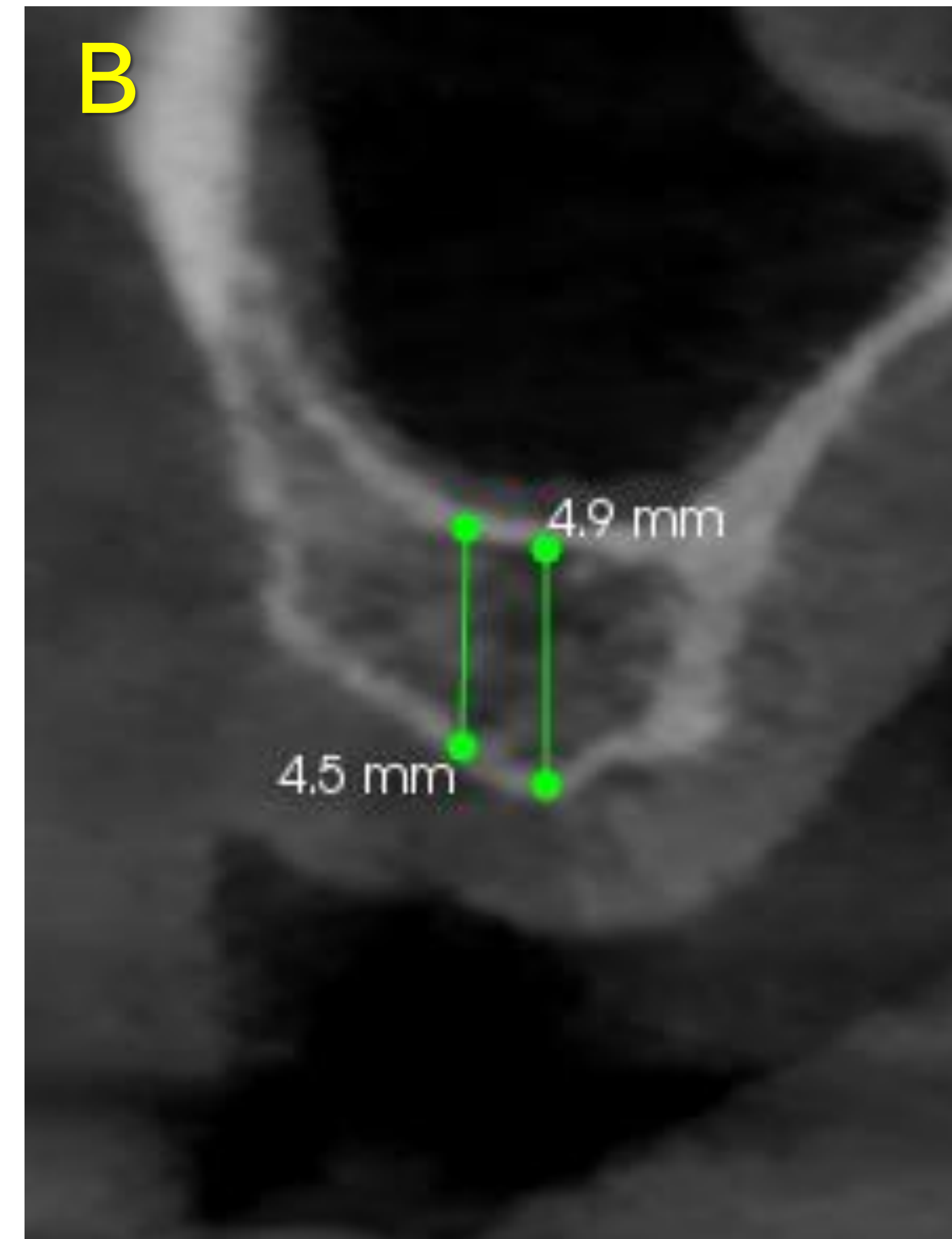
Continuation of dental implant
placement using
Wrench/torquemeter



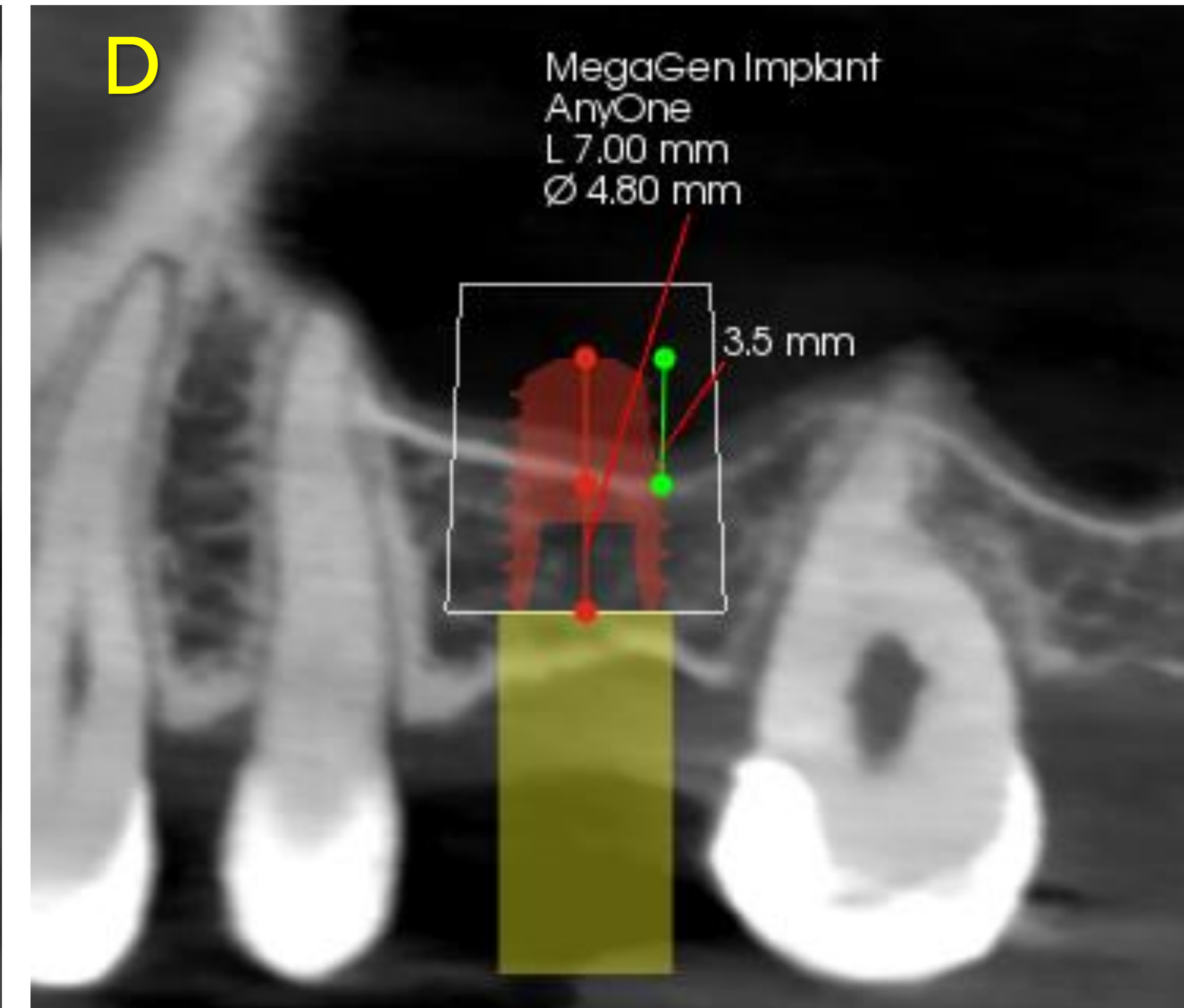
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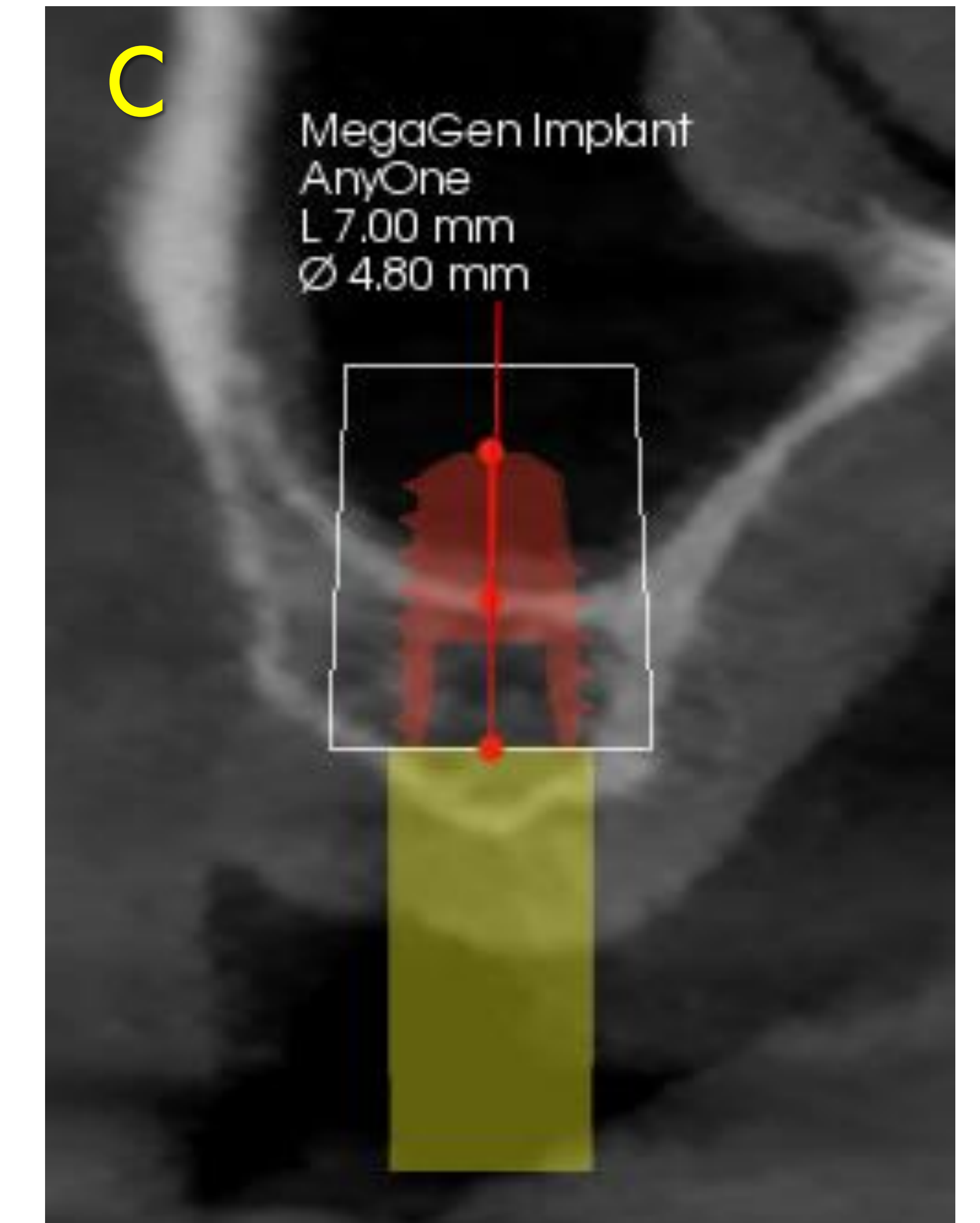
A. CBCT Preoperative, 4mm alveolar ridge height after extraction – Frontal view



B. CBCT Preoperative, 4.5 - 4.9 mm alveolar ridge height after extraction - Axial view



C. CBCT: Virtual planning with an implant of 7mm length (1mm Subcrestal position) – Frontal View (3.5mm inside the sinus)



D. CBCT Virtual planning with an implant of 7mm length (1mm Subcrestal position) – Axial view

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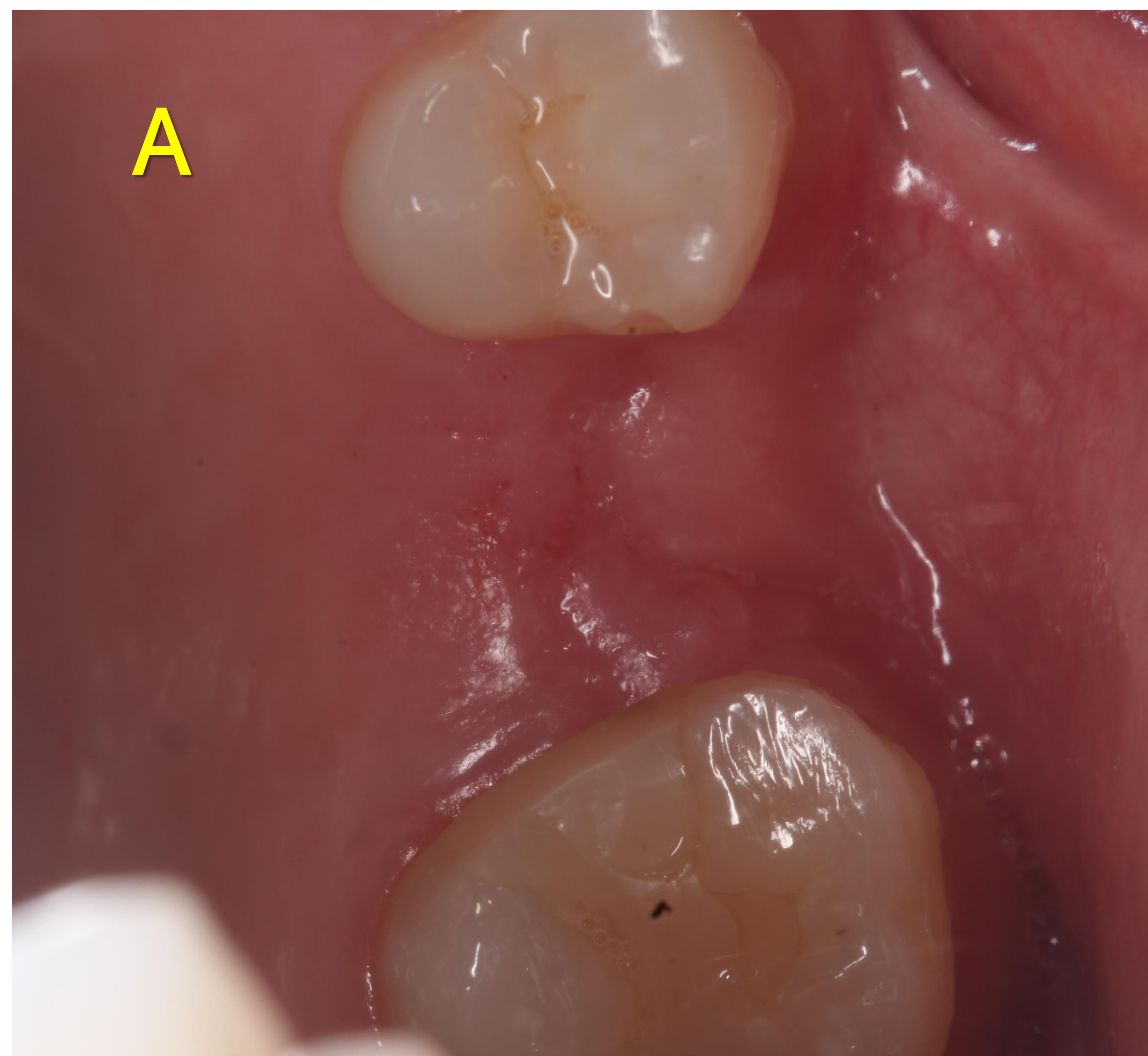
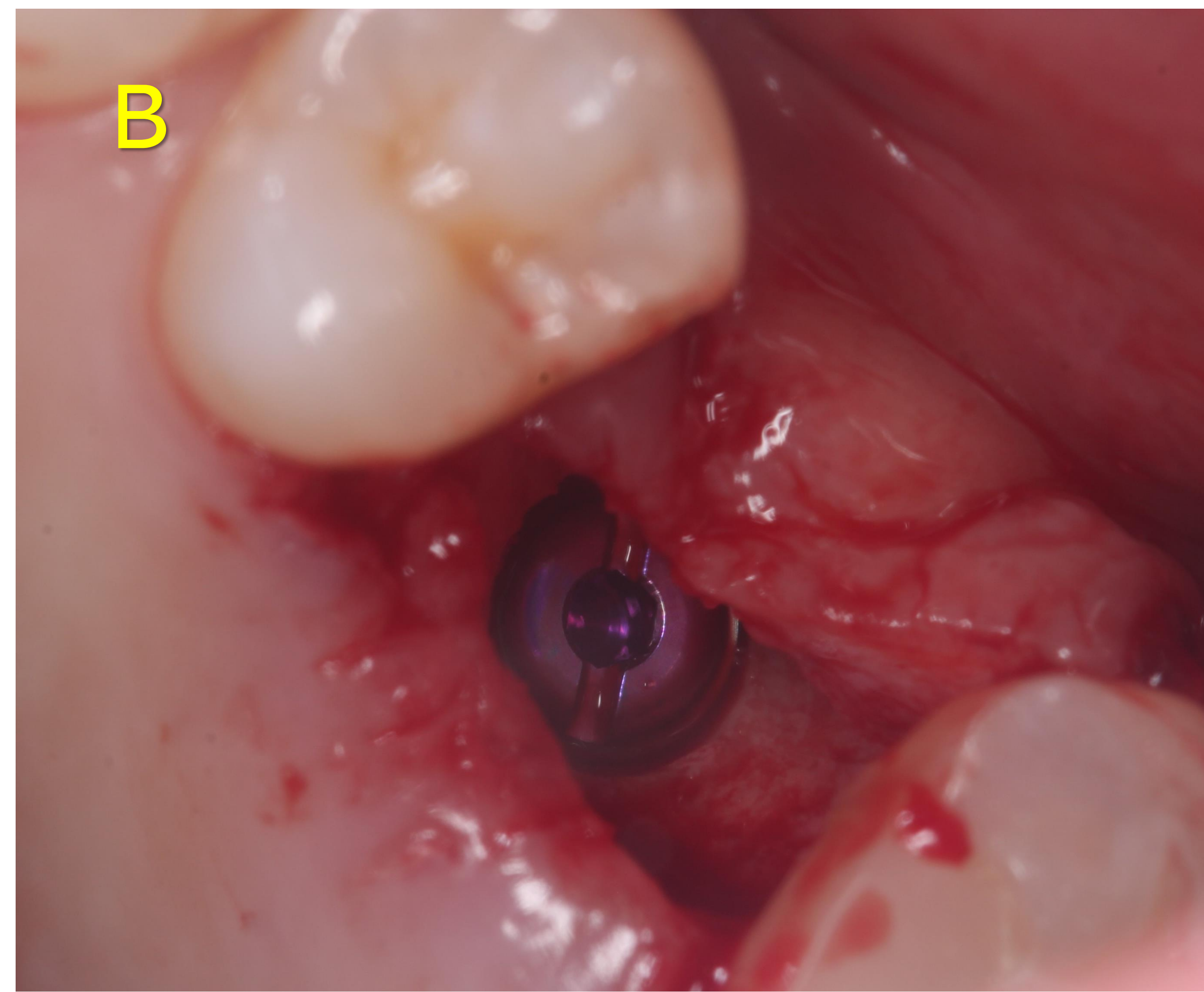
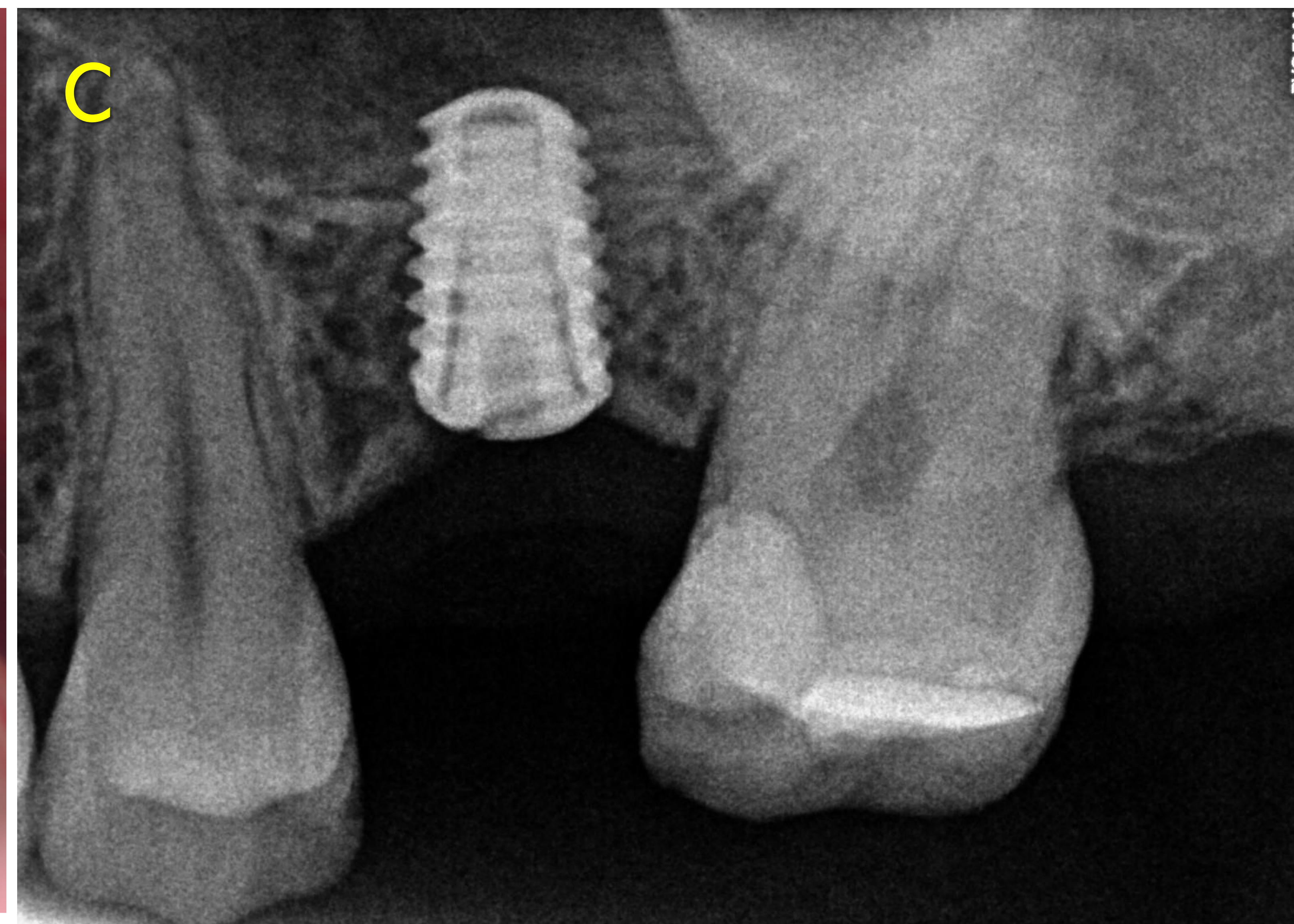
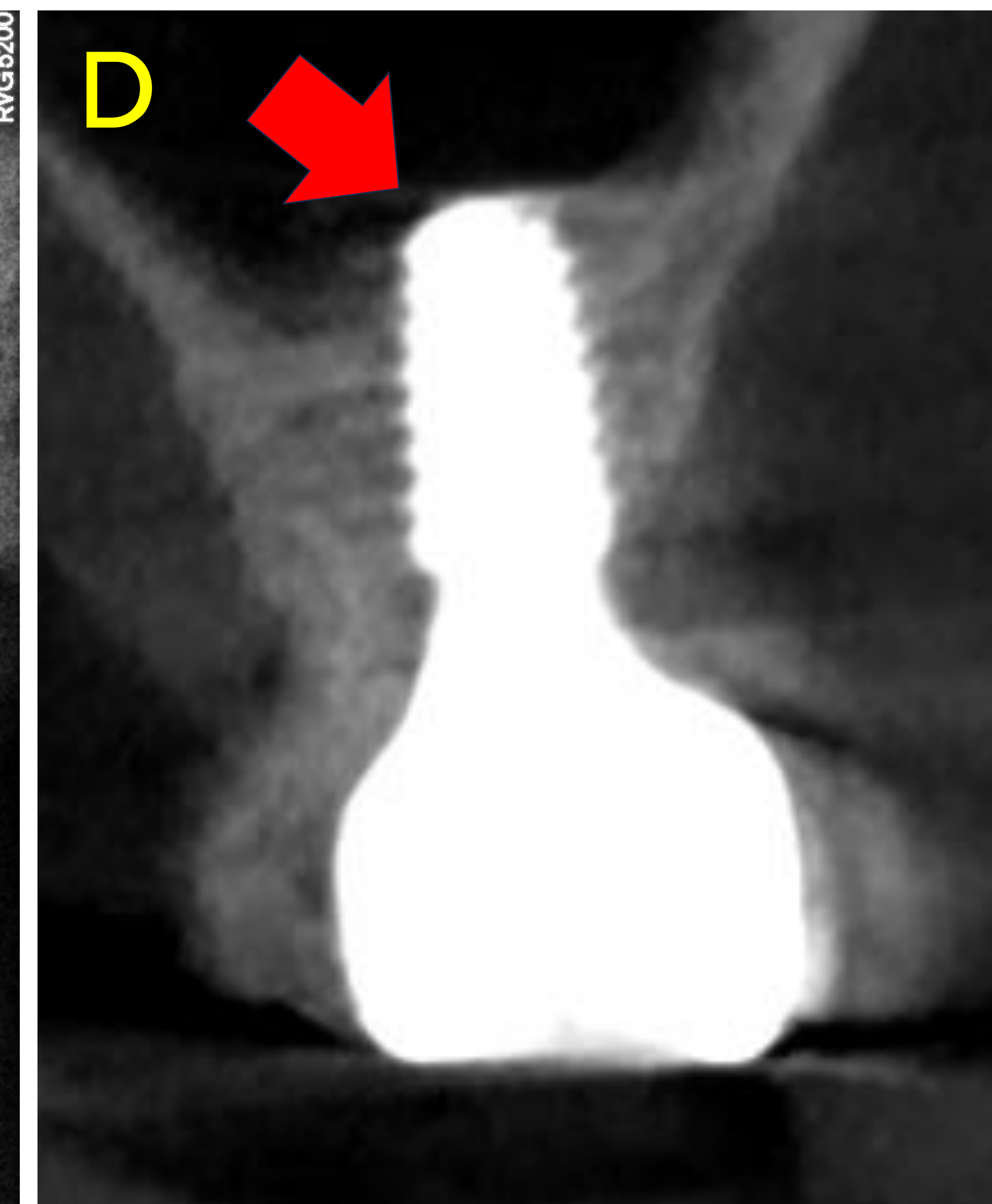


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RESULTS



Preoperativel situation

Implant placement 1mm
subcrestal

X-ray Implant position

8 months
postoperative CBCT,
NOTE the bone
formation around the
implant

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CONCLUSION

This simple and conservative surgical technique for the maxillary sinus floor lift using only a dental implant, without bone graft, could be a predictable option for implant therapy when bone ridge height is insufficient

