

5 Years Graft Stability in Vertical Augmentation

Clinical Case : Maxillary Right Second Premolar

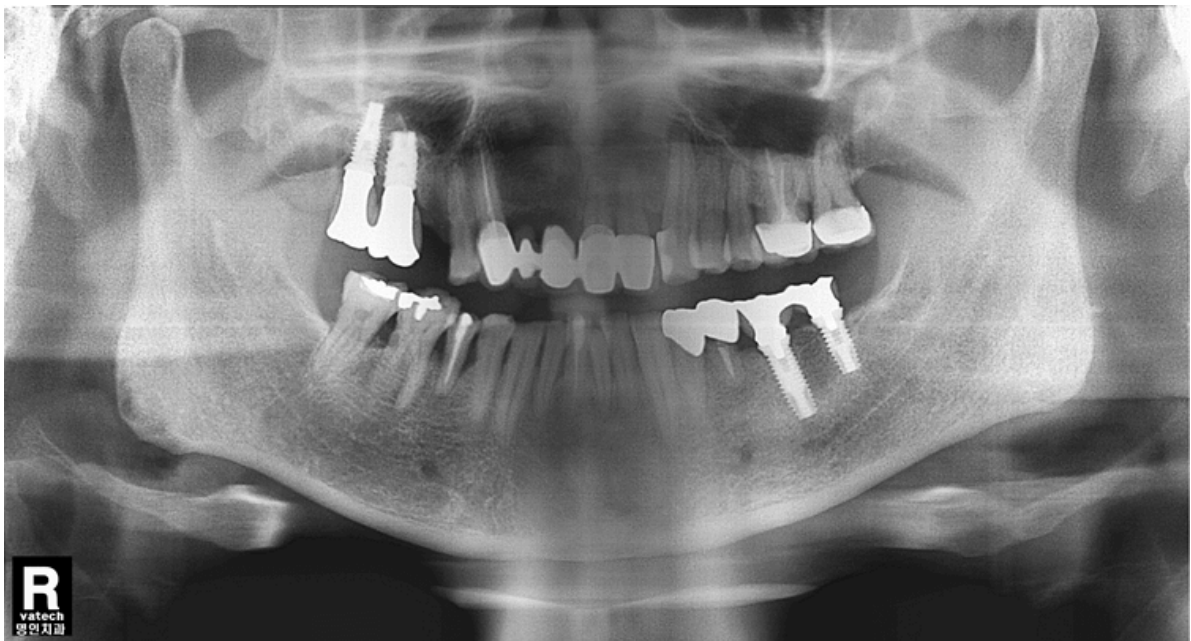
Patient: 65-year-old

Operation site : # 15

By Dr. Myung Ho Lee

Conclusion: This case report highlights the clinical effectiveness of Ti-oss® in augmenting post-extraction alveolar defects. Long-term radiographic evidence confirms the biocompatibility, osteoconductivity, and stability of Ti-oss®, which makes it a reliable option for enhancing implant outcomes in compromised sites.

Presurgical Radipgraph: An image reveals a post-extraction defect at the site of the maxillary right second premolar.



The CT scan shows a distinct post-extraction defect, with the apex region situated close to the maxillary sinus.



Following soft tissue retraction, the extent of the buccal bone defect was found.

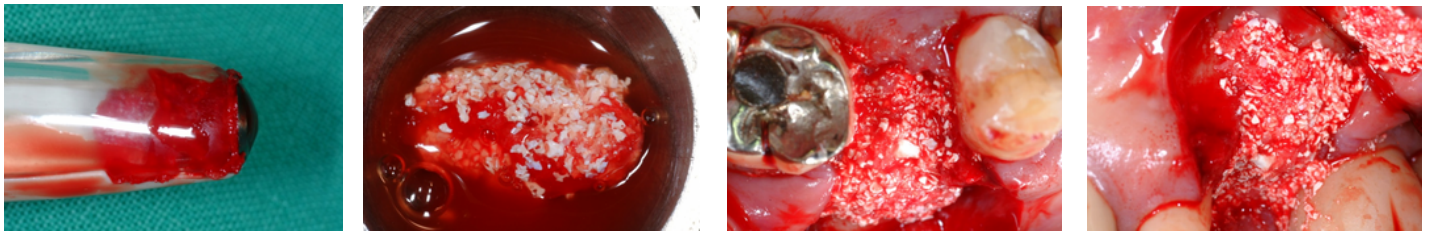


A substantial vertical and horizontal deficiency was monitored with significant thread exposure.

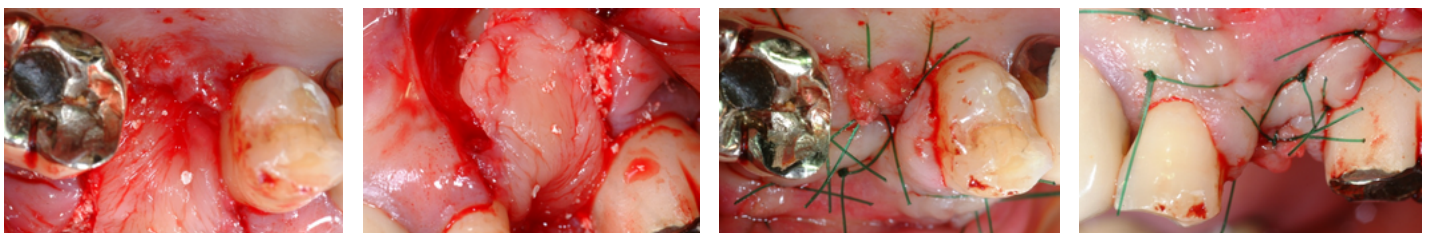


Graft Preparation and Placement:

Ti-oss® was combined with platelet-rich plasma (PRP) and autologous bone (bone scratch) to achieve optimal graft consistency and contour.

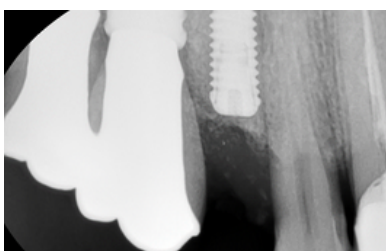


Platelet-rich fibrin (PRF) was applied over the Ti-oss® graft material and secured with sutures.



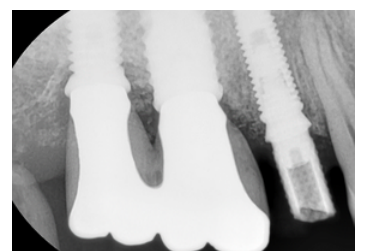
Post Operative Follow-up Evaluation

Right after the Surgery

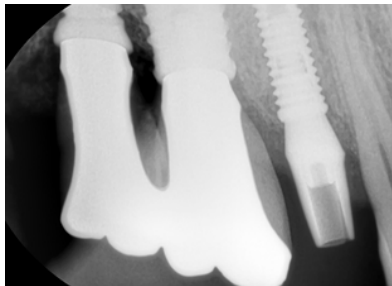


3 ½ Months

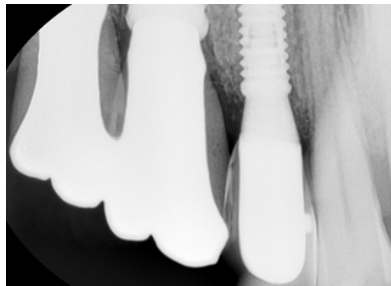
Radiopacity indicated noticeable bone formation within the crestal defect.



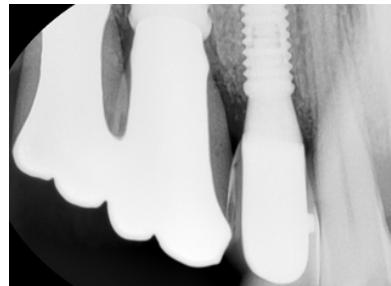
6 Months



11 Months



18 Months



Successful osseointegration and implant restoration were achieved, demonstrating the efficacy of Ti-oss® in augmenting the post-extraction site. Long-term follow-up confirmed sustained bone volume and implant stability.



23 Months After Surgery



36 Months After Surgery



54 Months After Surgery

Please observe the increased radiopacity around the #15 area.

Ti-oss[®]



No.	Product / Weight	Size
25-0512	Ti-oss [®] 0.25g/0.6cc	0.5 - 1.2mm
05-0512	Ti-oss [®] 0.5g/1.2cc	0.5 - 1.2mm
10-0512	Ti-oss [®] 1.0g/2.3cc	0.5 - 1.2mm
20-0512	Ti-oss [®] 2.0g/4.5cc	0.5 - 1.2mm
25-1217	Ti-oss [®] 0.25g/0.75cc	1.2 - 1.7mm
05-1217	Ti-oss [®] 0.5g/1.5cc	1.2 - 1.7mm
10-1217	Ti-oss [®] 1.0g/3.0cc	1.2 - 1.7mm
20-1217	Ti-oss [®] 2.0g/6.0cc	1.2 - 1.7mm

Octabone[®]



No.	Product / Weight	Size
25-0210	Octabone [®] 0.25g/0.45cc	0.2 - 1.0mm
05-0210	Octabone [®] 0.5g/0.8cc	0.2 - 1.0mm
10-0210	Octabone [®] 1.0g/1.5cc	0.2 - 1.0mm
20-0210	Octabone [®] 2.0g/3.0cc	0.2 - 1.0mm

Octabone[®] Syringe

No.	Product / Weight	Size
S25-0210	Octabone [®] 0.25g/0.45cc	0.2 - 1.0mm
S05-0210	Octabone [®] 0.5g/0.8cc	0.2 - 1.0mm

Ti-oss[®] Syringe



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S05-1217	Ti-oss [®] 0.5g/1.5cc	1.2 - 1.7mm

Ti-oss[®] Guide



No.	Product / Weight	Size
DTG-10002	Ti-oss [®] Guide	15 x 30mm

Ti-oss[®] Block



No.	Product / Weight	Size
BLK8812	Ti-oss [®] Block	8x8x12mm
BLK8825	Ti-oss [®] Block	8x8x25mm