

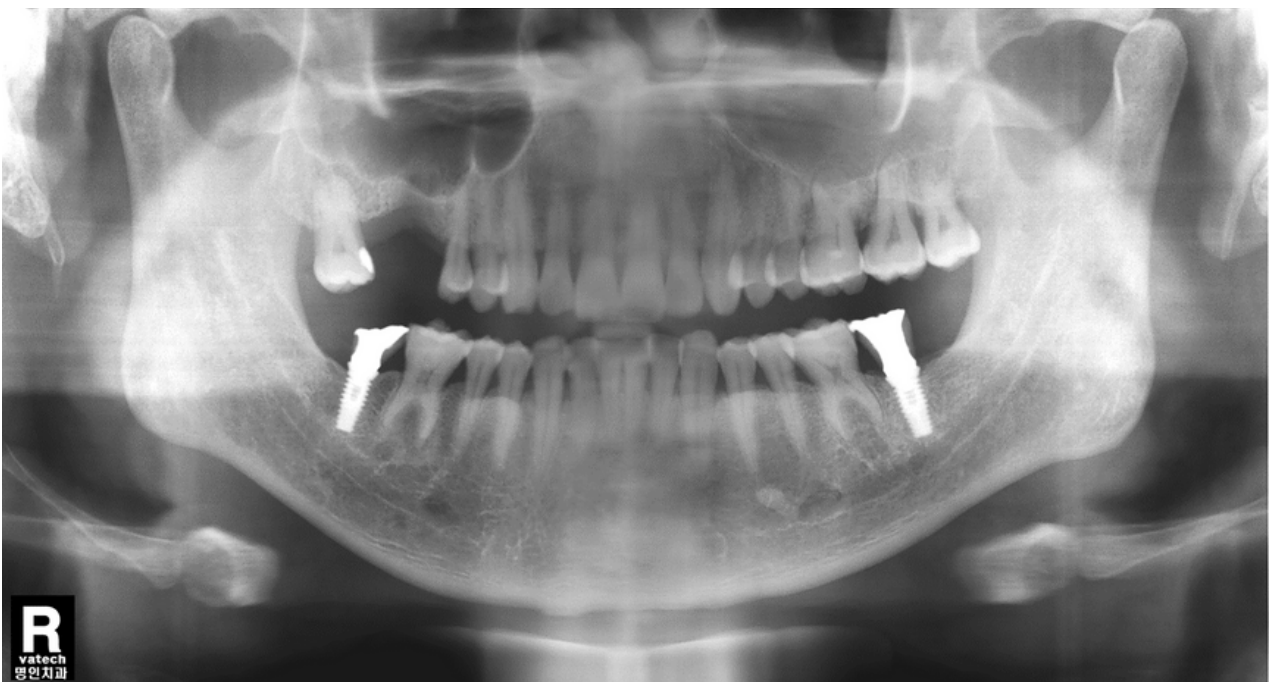
Long Term Stability of Ti-oss® with Radio-Opacity 60 Months Follow-Up

Clinical Case : Right Maxillary, First Molar Area, Sinus & Crestal Augmentation

Patient: 53-year-old male **Operation site : # 16** **By Dr. Myung Ho Lee**

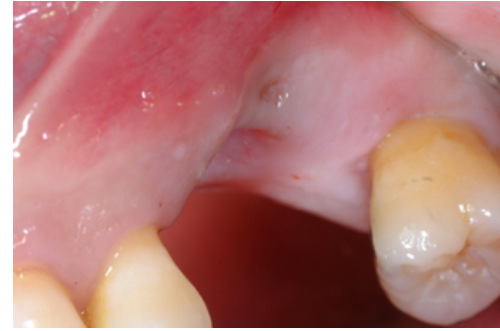
Conclusion: Radiographic evaluations over 60 months confirmed the successful integration and mineralization of the Ti-oss® graft. The sinus area showed significant radio-opacity, which is very unique to Ti-oss® and the implant remained stable, demonstrating successful bone regeneration. This case highlights the biocompatibility and osteoconductivity of Ti-oss®, supporting its use in complex sinus and crestal augmentation procedures.

**Presurgical Radipgraph: Right maxillary first molar area shows
insufficient ridge height - Need Sinus and Coronal Augmentation**



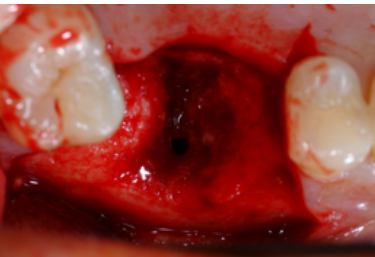
Absence of the buccal plate.

The soft tissue shows the buccal plate disappeared.



Preparation and Surgical Procedure

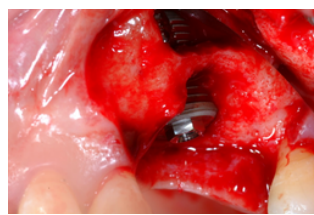
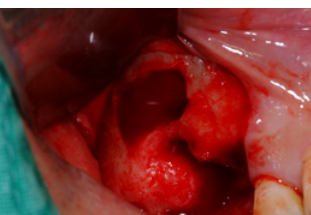
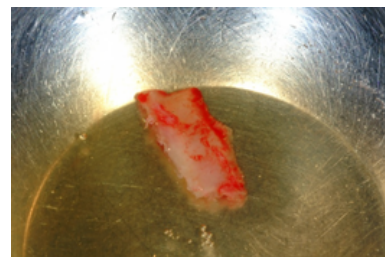
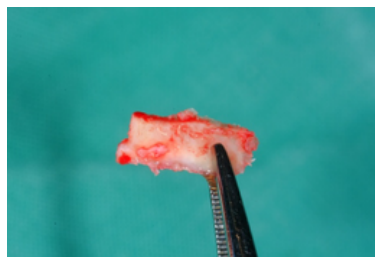
Operation Site: #16 with Ti-oss® Bone Graft



Large Extraction Defect Identified



The sinus window was opened to access the area.



An Implant was placed on the very thin sinus floor.

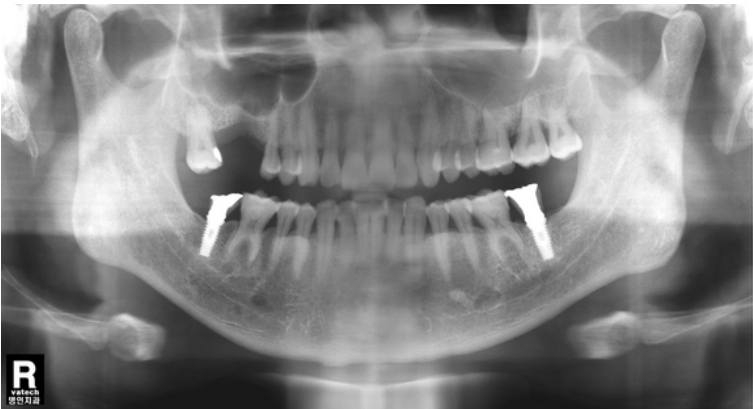


PRF and Ti-oss® were mixed with PRP for graft application.

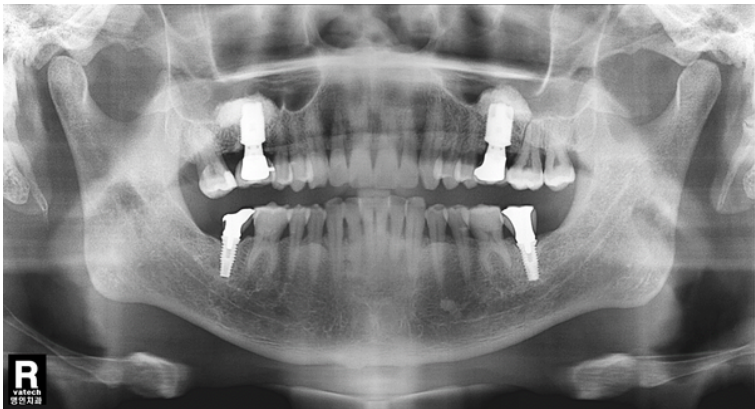


All defect areas were meticulously filled in without breaking the multiporous nature of Ti-oss®. The site was then sutured.

Follow--up Evaluation (60 Months)



Before Sugery



60 Months after Surgery

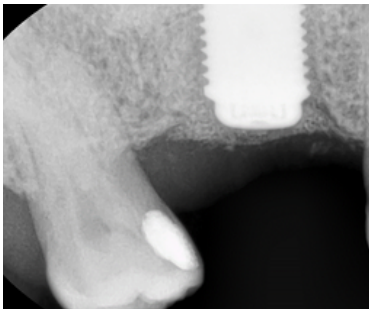
25 days after surgery

Opacity began to appear in the sinus area, indicating early signs of successful vertical and sinus augmentation.



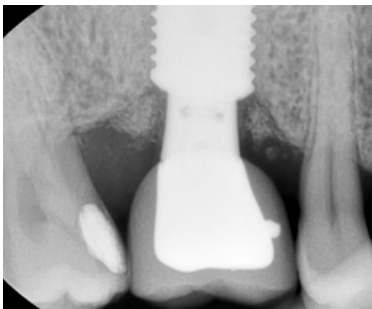
3 ½ M after surgery

The defect was no longer noticeable, and implant loading was planned.

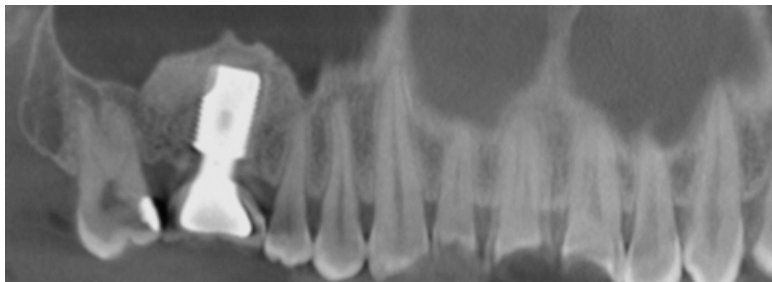


6½ M after surgery

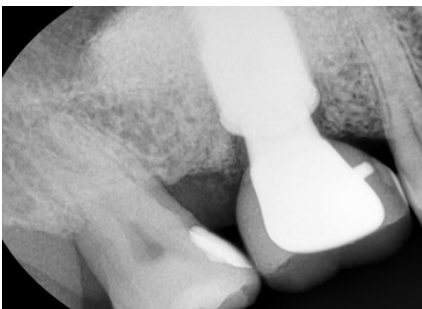
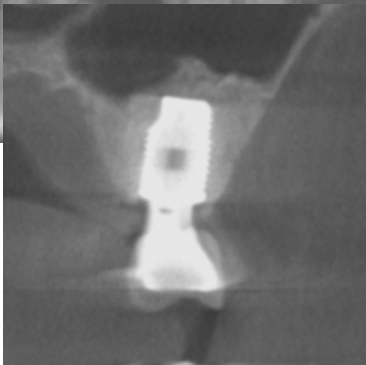
Temporary loading proved successful, demonstrating the graft's maturation.



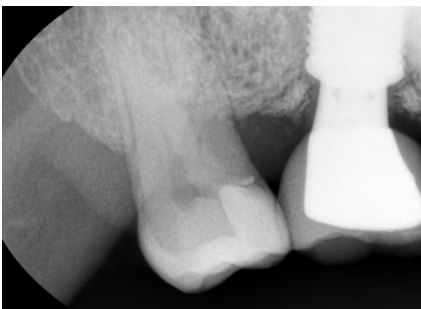
Panoramic and cross-sectional CT scans confirmed the completion of coronal and sinus augmentation, providing definitive proof of Ti-oss®'s biocompatibility & osteoconductivity.



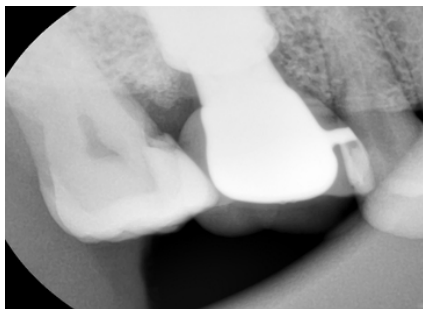
9 Months after Surgery



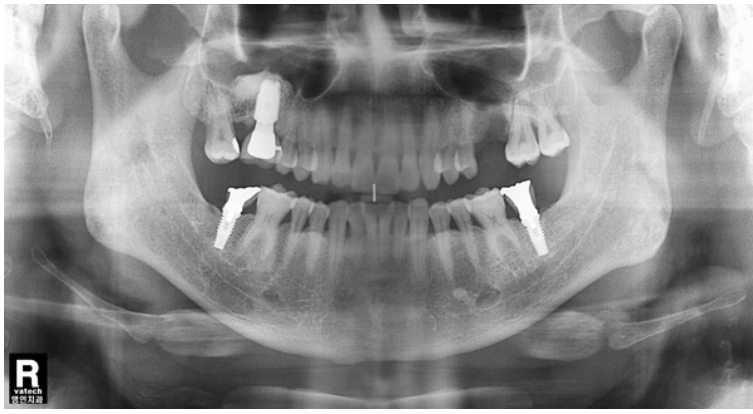
18 Months



32 Months



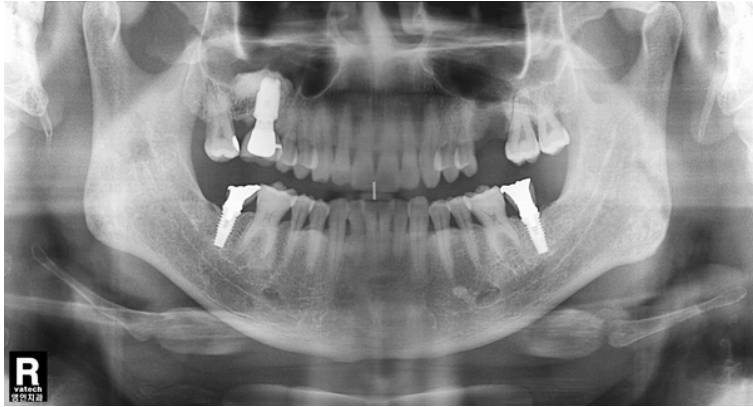
42 Months



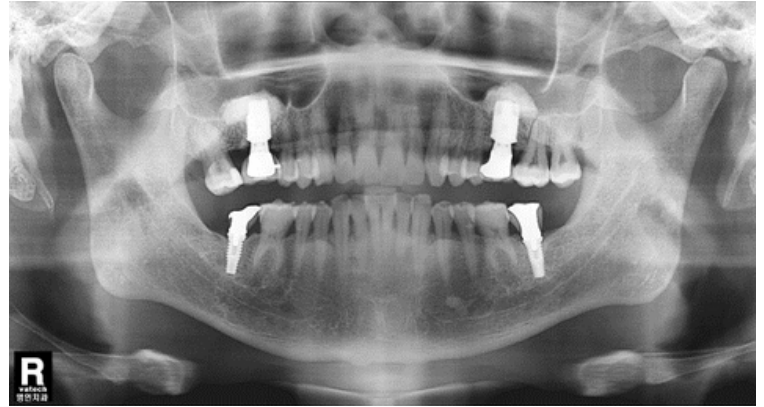
9 Months after Sugery



23 Months after Surgery



42 Months after Sugery



60 Months after Surgery

Comments:

This case demonstrates the long-term success of Ti-oss® in sinus and ridge augmentation. The 60-month follow-up confirms the graft's stability, mineralization, and biocompatibility, making it a reliable choice for complex dental procedures.

Thank you very much!

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



No.	Product / Weight	Size
S25-0512	Ti-oss [®] 0.25g/0.6cc	0.5 - 1.2mm
S05-0512	Ti-oss [®] 0.5g/1.2cc	0.5 - 1.2mm
S25-1217	Ti-oss [®] 0.25g/0.75cc	1.2 - 1.7mm
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