Anterior Maxillary Guided Bone Regeneration with Resorbable Collagen Membrane and Bone Allograft

oraPHARMA, INC.

OSSIX™ PLUS™
THE RESORBABLE COLLAGEN MEMBRANE
Case Number 7

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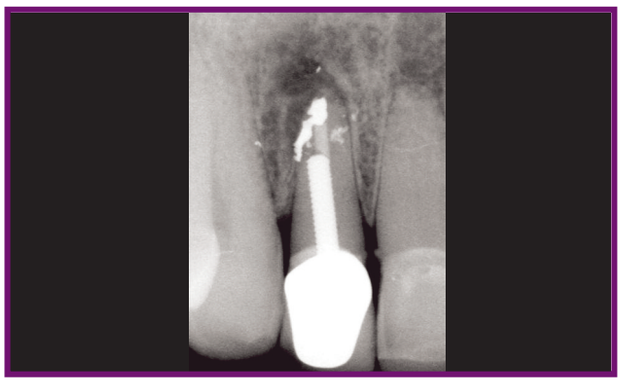
PATIENT PRESENTATION

A 71-year-old male presented with a failing tooth #7 due to recurrent endodontic infection (i.e., chronic apical periodontitis) and esthetic concerns. Tooth #7 was extracted and flap resection revealed an apical lesion. The residual socket was debrided, irrigated with saline, and conditioned with topical tetracycline to eliminate infection. The lesion was then filled with freeze-dried bone allograft (FDBA), followed by placement of OSSIX™ PLUS™ (resorbable collagen membrane) over the site. The flap was closed and allowed to heal for 4 months. Re-entry revealed complete bony fill of the defect, which was noted both clinically and radiographically. Remnants of the resorbable collagen membrane were also present upon re-entry. An implant and healing cap was then placed, followed by final restoration of tooth #7 8 months later.

Figure 1

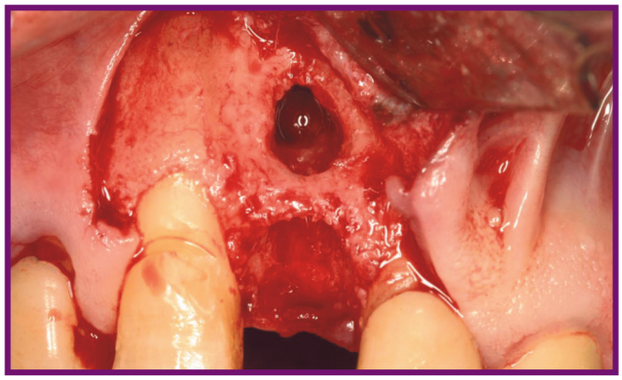
Initial presentation shows failing tooth #7.

Figure 2



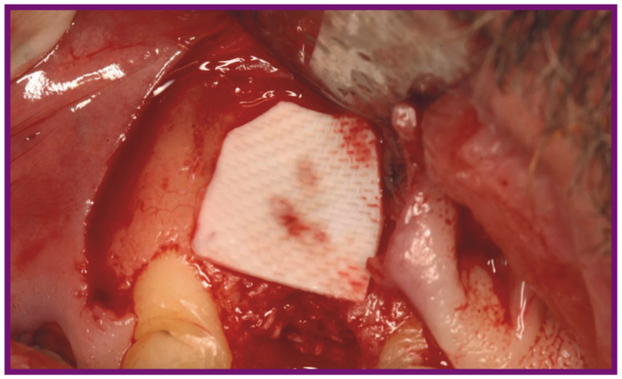
Pre-operative radiograph of tooth #7.

Figure 3



Extraction and flap resection revealed an apical lesion.

Figure 4

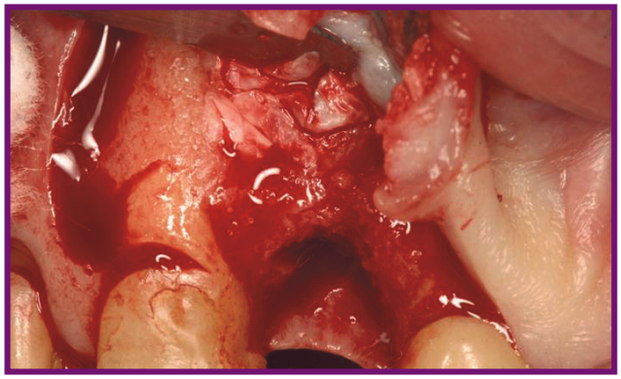


Ridge preservation: The ridge and lesion were filled with FDBA and covered with OSSIX™ PLUS™ (resorbable collagen membrane).

Figure 5

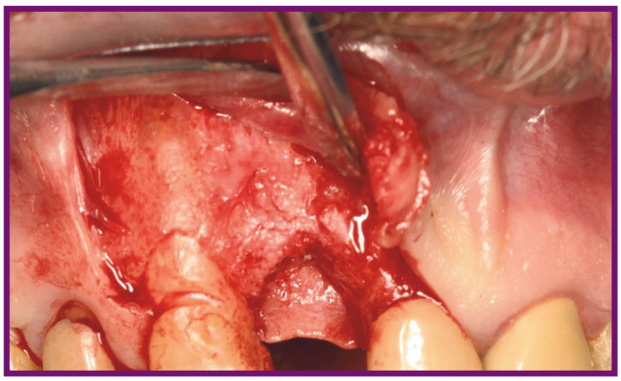
4-month post-operative radiograph shows new healthy bone and ridge preservation.

Figure 6



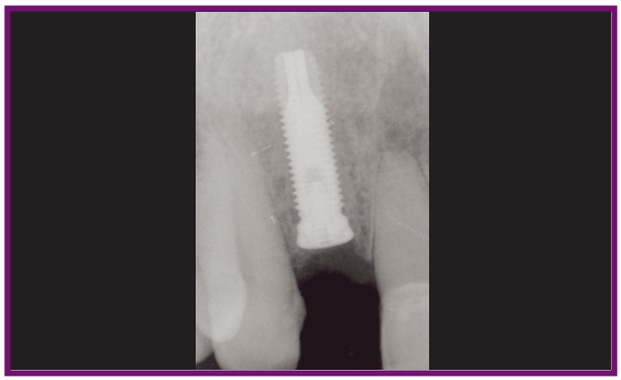
Flap resection at 4 months reveals remnants of the resorbable collagen membrane.

Figure 7



After removal of remaining collagen membrane, implant was placed and the site sutured closed to heal.

Figure 8

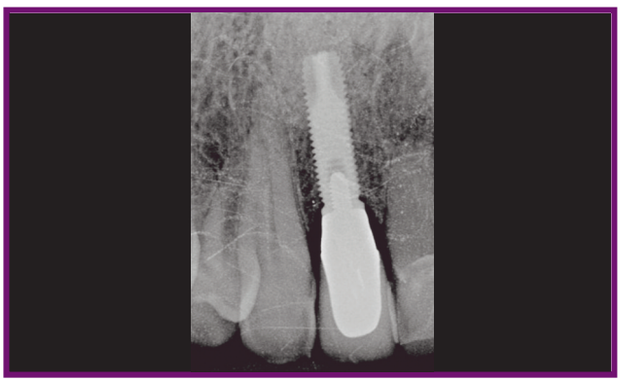


Immediate post-op radiograph of implant #7.

Figure 9

Final restoration of implant #7.

Figure 10



Final radiograph of implant #7.

Clinical Considerations:

Anterior ridge augmentation via OSSIX™ PLUS™ (resorbable collagen membrane) and allograft (FDBA) creates enough bone growth to easily support an implant. The resorbable collagen membrane retains barrier function for a significant amount of time (up to 6 months)[1] without complication. A functional and esthetically acceptable implant outcome is the result.

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Reference: 1. Data on file, ColBar LifeScience Ltd.

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Data and photos from case of Michael Sonick, DMD, Fairfield, CT.

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