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Full-Arch Guided Bone Regeneration with Resorbable Collagen Membrane and Bone Allograft: Pre- and Post-Implant Placement

OSSIX™ PLUS™
THE RESORBABLE COLLAGEN MEMBRANE
Case Number 8

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PATIENT PRESENTATION

A 58-year-old male presented with generalized severe bone loss and tooth mobility, which created an altered occlusal scheme. He was unhappy with the appearance of his teeth. The treatment plan included maxillary full-arch extraction with ridge preservation and simultaneous mandibular full-arch extraction, including immediate implantation of 6 implants and immediate temporization. This was followed by a 6-month healing period and subsequent placement of 7 maxillary implants. After another 6-month healing period, final maxillary and mandibular restoration was achieved with the placement of fixed hybrid prostheses.

Figure 1



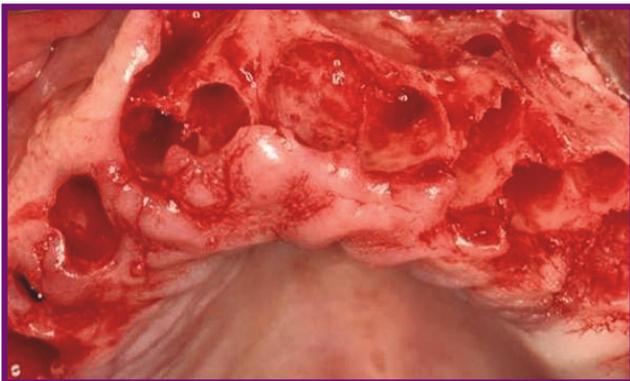
Initial presentation – terminal dentition.

Figure 2



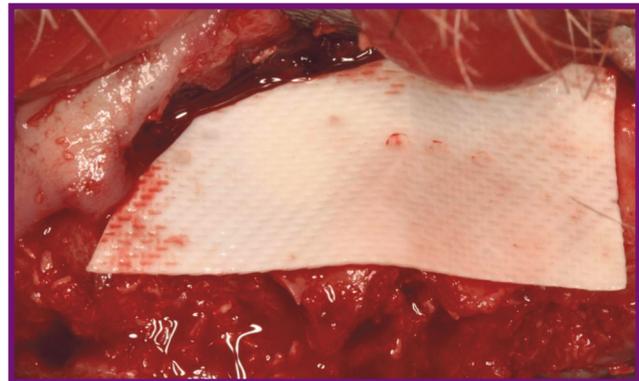
Radiographs for teeth #s 4 through 13. Note 50-90% alveolar bone loss.

Figure 3



Maxillary full-arch extraction. Loss of buccal plate.

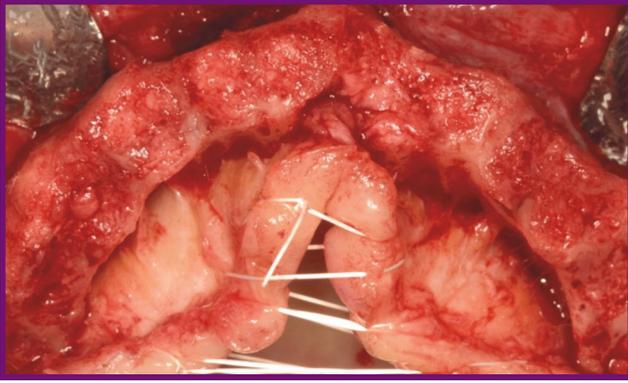
Figure 4



Maxillary ridge preservation: Freeze-dried bone allograft (FDBA) is placed in and around the extraction and graft sites and covered with an OSSIX™ PLUS™ (resorbable collagen membrane).

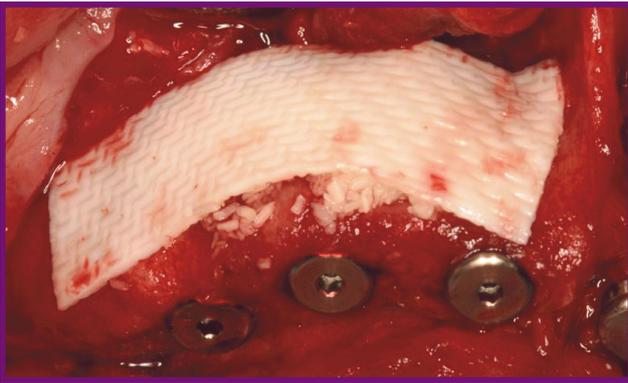


Figure 5



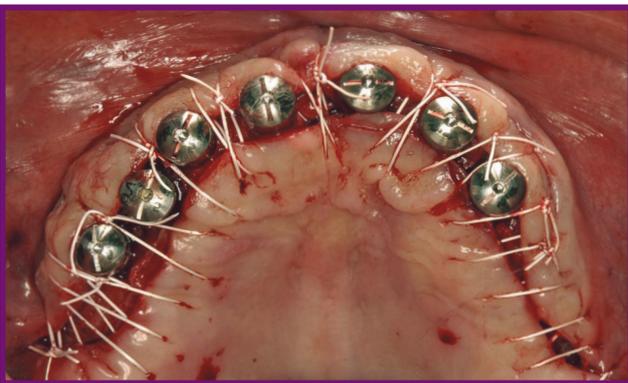
Maxillary ridge after 6 months of healing, with complete regeneration of bony plate.

Figure 7



Maxillary peri-implant guided bone regeneration (GBR) using FDBA and OSSIX™ PLUS™ (resorbable collagen membrane).

Figure 9



Abutment placement and flap closure.

Clinical Considerations:

Guided bone regeneration (GBR) using OSSIX™ PLUS™ (resorbable collagen membrane) and allograft creates abundant ridge augmentation when GBR surgical principles and healing periods are adhered to, even in extensive cases. This bioabsorbable, long-functioning (up to 6 months)¹ barrier may resist negative effects of exposure and encourage the growth of high-quality, high-quantity, implant-supportive bone.

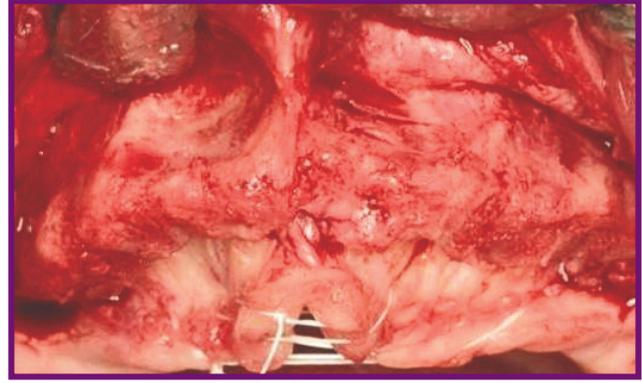
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Reference: 1. Data on file, ColBar LifeScience Ltd.

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Figure 6



Maxillary ridge after 6 months of healing (facial view). Compare to Figure 3. Remnants of OSSIX™ PLUS™ (resorbable collagen membrane) are still present.

Figure 8



Flap resection shows maxillary healing 6 months after implant placement and peri-implant GBR.

Figure 10



Final results.

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

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