

Posterior Maxillary GBR with Resorbable Membrane, Allograft, and Plasma Rich in Growth Factors: Pre- and Peri-Implant Placement

OSSIX™ PLUS™
THE RESORBABLE COLLAGEN MEMBRANE
Case Number 6

MICHAEL SONICK, DMD

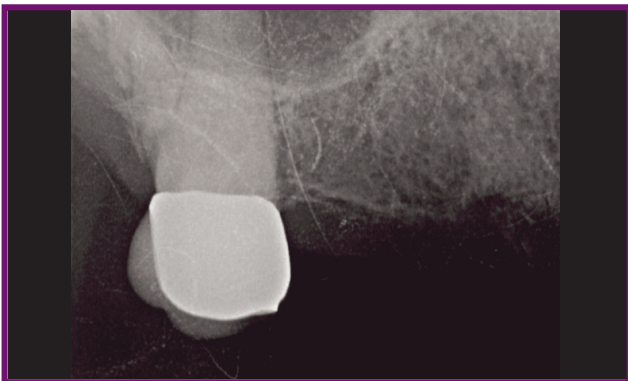
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PATIENT PRESENTATION

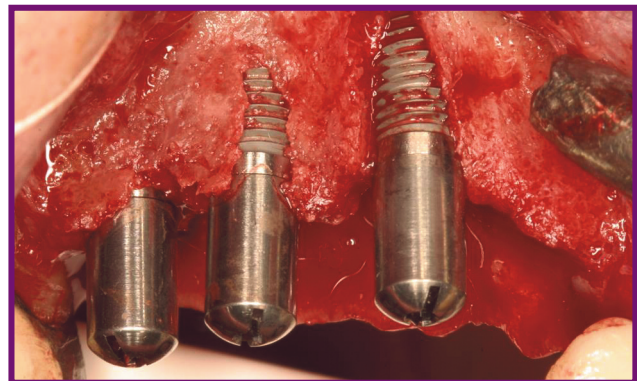
A 73-year-old female presented with a failing #3-x-x-6 fixed partial denture (FPD) due to a hopelessly fractured #6 abutment tooth. She also experienced poor occlusal function due to the failing FPD, and had moderate maxillary sinus pneumatization over edentulous site #4. Tooth #6 was extracted and the ridge preserved. After a 3-month healing period, implants were placed from teeth #s 4-6 with osteotome-mediated sinus elevation over #4. Simultaneous guided bone regeneration (GBR) was performed around all of the implants to expand the ridge laterally. Healing abutments were placed and a final maxillary restoration with a splinted, implant-supported FPD for #s 4-6 with #7 cantilever was placed after 6 more months of healing time.

Figure 1



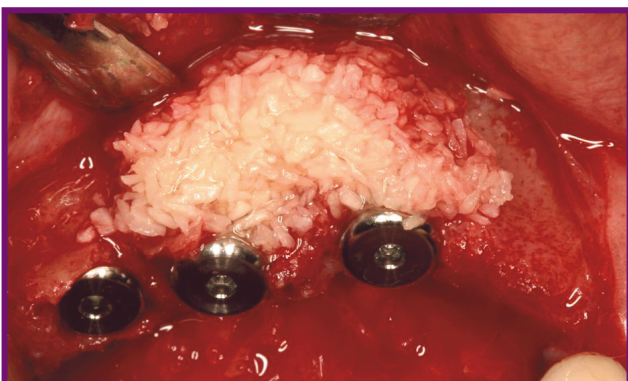
Pre-operative radiograph of area #s 3, 4, and 5.

Figure 2



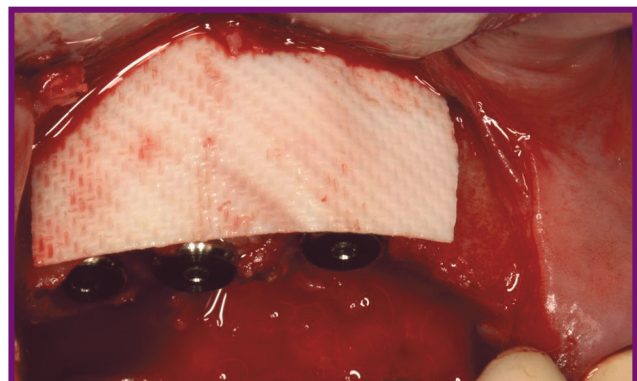
Placement of implants #s 4, 5, and 6.

Figure 3



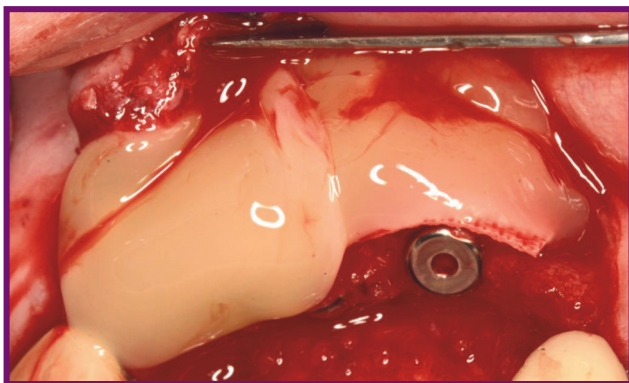
Peri-implant guided bone regeneration with freeze-dried bone allograft (FDBA).

Figure 4



A 30 x 40mm OSSIX™ PLUS™ (resorbable collagen membrane) is placed over graft site.

Figure 5



Plasma (rich in growth factors) is placed on top of the OSSIX™ PLUS™ (resorbable collagen membrane).

Figure 7



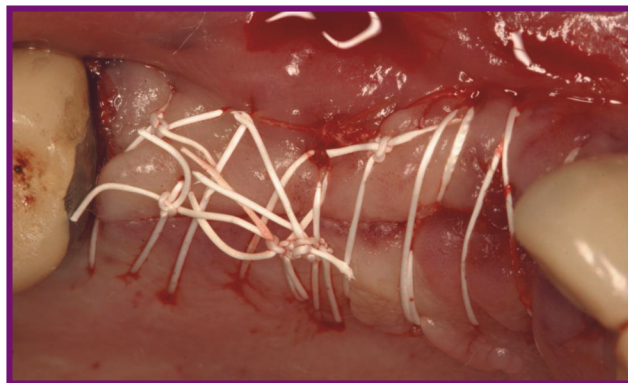
Complete closure and healing of soft tissue is demonstrated at 6 months post-op.

Figure 9



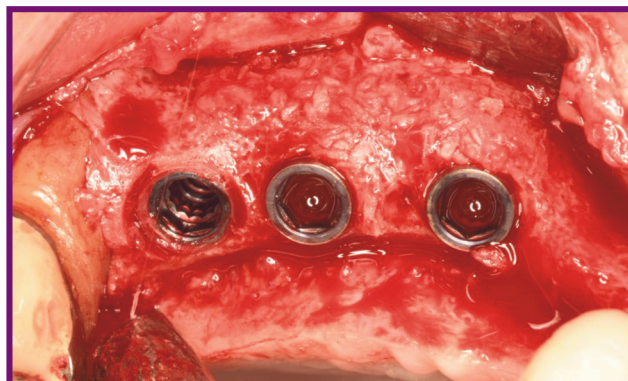
Final splinted, implant-supported FPD for #s 4-6 with #7 cantilever.

Figure 6



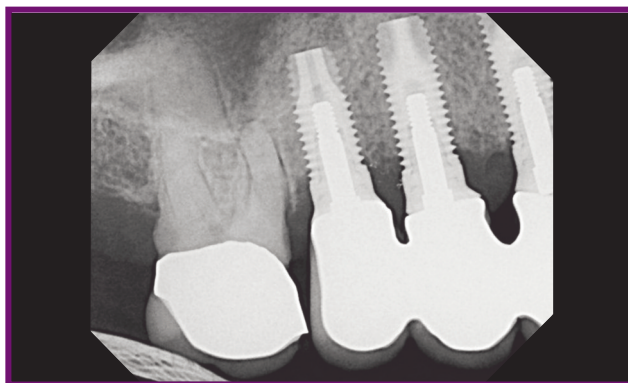
Primary closure of the surgical site is achieved.

Figure 8



Second-stage surgery after 6 months reveals regenerated ridge demonstrating new hard tissue. Healing abutments are placed and the site is sutured and left to heal for 1 month.

Figure 10



Post-op radiograph shows complete resolution of defect and new bone.

Clinical Considerations:

Peri-implant guided bone regeneration (GBR) using OSSIX™ PLUS™ (resorbable collagen membrane) in conjunction with freeze-dried bone allograft (FDBA) and bioactive modifiers, such as plasma rich in growth factors, in posterior regions predictably results in a good volume and quality of new bone after 6 months of healing. In this way, OSSIX™ PLUS™ (resorbable collagen membrane) contributes to the long-term stability and function of frequently-loaded implants.

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

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