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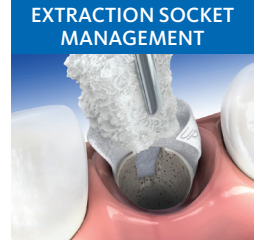


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EXTRACTION SOCKET MANAGEMENT WITH EARLY IMPLANT PLACEMENT



“For ridge preservation procedures following tooth extraction and early implant placement, Geistlich Bio-Oss Collagen® and Geistlich Mucograft® Seal are the ideal combination to maintain horizontal and vertical ridge volume as well as excellent soft-tissue healing and esthetics.”

It is important to reduce dimensional changes in the alveolar ridge following tooth extraction to ensure adequate bone width and height for early implant placement. Particularly in anterior cases, the quality of the soft-tissue and amount of keratinized tissue are critical for achieving an esthetic outcome. The use of Geistlich Bio-Oss Collagen® in fresh extraction socket sites has been shown to effectively maintain alveolar ridge volume in these types of procedures¹.

The application of a 3D collagen matrix, such as Geistlich Mucograft® Seal, to cover the extraction socket following the placement of Geistlich Bio-Oss Collagen®, results in faster wound healing and soft-tissue integration². The utilization of Geistlich Bio-Oss Collagen® and Geistlich Mucograft® Seal preserves significantly more bone volume than spontaneous healing³.

OBJECTIVES

- Minimize alveolar ridge remodeling following tooth extraction for early implant placement
- Ensure healthy and natural looking soft-tissue for an esthetic outcome
- Achieve successful implant placement and osseointegration for a single tooth restoration in the esthetic zone



Before extraction

CONCLUSION

- Tooth extraction and early implant placement combined with biomaterials was successful in the replacement and restoration of tooth #7 both functionally and esthetically
- The use of biomaterials post-extraction resulted in minimizing alveolar ridge volume reduction and maximizing soft-tissue healing^{2,3}



Final restoration 2 years post-extraction

1 Jung RE et al. J Clin Periodontol. Jan, 40(1):90-98

2 Geistlich Mucograft® Seal report on the meeting of the Advisory Committee, data on file

3 Thoma D. et al., J. Clin. Periodontol 2012; 39:157-165

CASE PRESENTATION

Jaw	Region	Restorative Status	Gingival Biotype
<input checked="" type="checkbox"/> Upper Jaw	<input checked="" type="checkbox"/> Anterior	<input type="checkbox"/> Tooth	<input checked="" type="checkbox"/> Thick
<input type="checkbox"/> Lower Jaw	<input type="checkbox"/> Posterior	<input checked="" type="checkbox"/> Implant	<input type="checkbox"/> Thin
Material Technique	<ul style="list-style-type: none"> Soft-tissue around the extraction socket was deepithelialized, Geistlich Bio-Oss Collagen® packed to the alveolar crest and Geistlich Mucograft® Seal was sutured in place without being compressed. 		



- 1 Pre-operative situation, tooth #7 with periapical infection and horizontal fracture
- 2 CT Scan showing tooth #7 with significant bone loss
- 3 Extraction socket with Geistlich Bio-Oss Collagen® in place
- 4 Geistlich Mucograft® Seal is placed over the extraction socket and secured with single interrupted sutures
- 5 Soft-tissue healing at the time of implant placement, 3 months following tooth extraction
- 6 Buccal view showing excellent soft-tissue healing and keratinized tissue
- 7 Occlusal view 5 months post implant placement
- 8 Buccal view at 5 months post implant placement
- 9 Final restoration in place, 2 years post-extraction

CAUTION: Federal law restricts these devices to sale by or on the order of a dentist or physician.

Indications:

Geistlich Bio-Oss Collagen® is indicated for the following uses: Augmentation or reconstructive treatment of the alveolar ridge; Filling of periodontal defects; Filling of defects after root resection, apicoectomy, and cystectomy; Filling of extraction sockets to enhance preservation of the alveolar ridge; Elevation of the maxillary sinus floor; Filling of periodontal defects in conjunction with products intended for Guided Tissue Regeneration (GTR) and Guided Bone Regeneration (GBR); and Filling of peri-implant defects in conjunction with products intended for GBR.

Warnings:

Possible complications which may occur with any surgery include swelling at the surgical site, flap sloughing, bleeding, local inflammation, bone loss, infection or pain. As Geistlich Bio-Oss Collagen® contains collagen, in very rare circumstances cases of allergic reactions may occur.

Indications:

Geistlich Mucograft® Seal is indicated for the following uses: Covering of implants placed in immediate or delayed extraction sockets, localized gingival augmentation to increase keratinized tissue (KT) around teeth and implants, alveolar ridge reconstruction for prosthetic treatment, recession defects for root coverage.

Warnings:

Geistlich Mucograft® Seal are collagen products, allergic reactions may not be totally excluded. Possible complications which may occur with any surgery include swelling at the surgical site, flap sloughing, bleeding dehiscence, hematoma, increased sensitivity and pain, redness and local inflammation.

For more information on contraindications, precautions, and directions for use, please refer to the Geistlich Bio-Oss Collagen® and Geistlich Mucograft® Seal Instructions for Use at: www.geistlich-na.com/ifu

MATERIAL SELECTION

Geistlich Bio-Oss Collagen®

Geistlich Mucograft® Seal

FOR MORE INFORMATION

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