Geistlich Bio-Oss® Collagen and Geistlich Bio-Gide® in Extraction Sockets
What was the main focus of this study?
To compare two methods and four materials with an RCT treating severe buccal blow out lesions from perio- and endo-failures. Using an acid test to provide a powerful comparison between two well-known treatment modalities in the USA and Europe.

Which finding of the study impressed you most?
If I had to limit my reply it would be the soft-tissue healing and histological outcomes, but the superior horizontal ridge augmentation gain was pretty impressive for the xenogeneic bone graft group.

From your experience: Which aspect of the study is of most relevance for a clinician and his patients?
So many: soft-tissue, patient outcomes, histological outcomes, gap wound healing outcomes. Really all we want to know about ridge augmentation in a severe defect model within a human clinical trial.

What makes the study special for you?
With 10 centers, 40 patients, 6 months follow up, cores retrieved and implants placed in 14 months. Then an award winning paper published in less than one year. This has been beyond my dreams when it comes to the big clinical research vision we have at iMc and PHP.

For more information visit:
Mcguireinstitute.org or periohealth.com

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Read full paper online
Your surgical expertise

Clinical case by Dr. Diego Velasquez | Fenton (USA), Co-author

1. Buccal view of extended post-extraction defect with buccal dehiscence in Region 46.
2. Complete filling of the socket with Geistlich Bio-Oss® Collagen after debridement to preserve ridge volume.
4. Soft tissue flap is securely closed over the augmented area. Good soft tissue healing at 1 week post-op.
5. Buccal view of the preserved ridge at 6 months with good soft tissue status and stable ridge volume.
6. Buccal view after flap elevation shows good bony result with successful integration of the bone graft material.

Key to success – Our expert products

1. Treatment of extraction sockets with buccal bone defect with Geistlich Bio-Oss® Collagen and Geistlich Bio-Gide® resulted in 35% more horizontal ridge volume after 6 months of healing. (Picture 1)

Implants can be placed without re-grafting at time of implant placement.¹

2. Treatment with a combination of a demineralized allograft² covered with a reconstituted artificially cross-linked collagen membrane³ resulted in lower ridge dimensions (Picture 2) after 6 months. This is statistically significant linked to a higher soft-tissue inflammation on average at 1 week healing time.¹

14% of implants could not be placed without a re-grafting at time of implant placement.¹

Pictures by courtesy of Dr. Velasquez

1. Occlusal view of well-preserved ridge 6 months after treatment with Geistlich Bio-Oss® Collagen and Geistlich Bio-Gide® before and after flap elevation.
2. Occlusal view of a resorbed ridge 6 months after treatment with an allograft¹ and a cross-linked membrane³ before and after flap elevation.
Handing over to nature

Geistlich Bio-Gide® – protecting your success

No foreign body reaction including multinucleated giant cells^{4,5}

Significantly more side effects occurred with an extended life collagen membrane such as wound dehiscences or inflammations^{6}

Protects your bone graft from soft-tissue ingrowth^{6} and mechanical dislocation^{7}

Increased volume of regenerated bone by protection of Geistlich Bio-Gide^{8,7}

Geistlich Bio-Oss® Collagen – grafting a solid foundation

High bone volume stability is crucial for long-term implant survival rate^{9-11}

Considerably reduced horizontal and vertical bone resorption after grafting with Geistlich Bio-Oss® Collagen^{12}

Use of Geistlich Bio-Oss® Collagen results in good bone-to-implant contact in the regenerated socket^{13}

Geistlich Bio-Oss® granules remain volume stable in the regenerated defect^{10}
TREATMENT OF EXTRACTION SOCKETS:

Predictable long-term results after 10 years using Geistlich Bio-Oss®
There is no need for a second grafting at re-entry

Geistlich Bio-Oss® Collagen: deproteinized bovine bone mineral with collagen

Biomend® Extend: reconstituted and cross-linked collagen membrane

Scheyer et al. 2016

A randomized, controlled, multi-center clinical trial of post-extraction alveolar ridge preservation.

Were enrolled 40 subjects

40% of the implants could NOT be placed without regrafting at implant placement

Better ridge preservation at one week correlates with better soft-tissue healing

The combination of the beneficial properties of Geistlich biomaterials results in the same amount of newly formed bone compared to a de-mineralized allograft covered with a reconstituted artificially cross-linked collagen membrane.

There is no need for a second grafting at re-entry

Predictable long-term results after 10 years using Geistlich Bio-Oss® Collagen

Geistlich Bio-Gide®: natural, bilayer collagen membrane

Oragraft®: demineralized allograft
More details about our distribution partners:
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References
2 Ongraft® OGC, LifeNet Health, Inc., Virginia Beach, VA, USA
3 Biomend® Extend; Zimmer Dental, Inc., Carlsbad, CA, USA