



Geistlich
Biomaterials

Harvesting Innovation

For Your Regenerative Needs

- SafeScraper TWIST
- Micross

An Essential Part of Regenerative Success

Begins with a Proven Treatment Concept

Geistlich Bio-Oss® and Geistlich Bio-Gide® have been used successfully in Guided Bone Regeneration (GBR) procedures, to maintain ridge volume and esthetics, in a wide variety of Therapeutic Areas. Many of these cases include significant hard tissue loss, which requires bone grafting prior to implant placement.¹

Autologous grafts have long been considered ideal for GBR procedures as they present osteoconductive, osteoinductive, and osteogenic potential.² However, a disadvantage has been that the resorption rate of autologous bone is significantly greater than that of Geistlich Bio-Oss®.^{3,4} This may result in a lack of long-term volume preservation that could negatively impact the ability for optimal implant placement and compromise esthetics.^{5,6}

The application of Geistlich biomaterials in conjunction with an autologous bone graft optimizes the autologous graft's osteoinductive potential and the osteoconductive capacity of Geistlich Bio-Oss®.^{3,4,5} Combining a 1:1 mixture of locally harvested autologous bone chips with Geistlich Bio-Oss® covered by Geistlich Bio-Gide® can result in a significant reduction of hard tissue resorption.^{1,4,6}

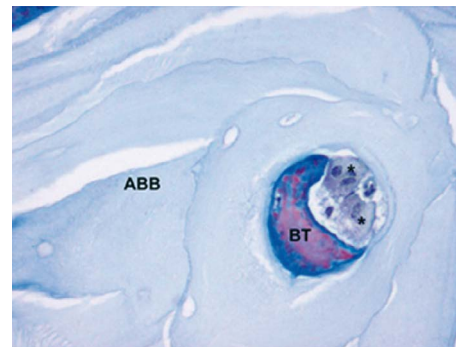
The similarity of Geistlich Bio-Oss® to human bone



Geistlich Bio-Oss®



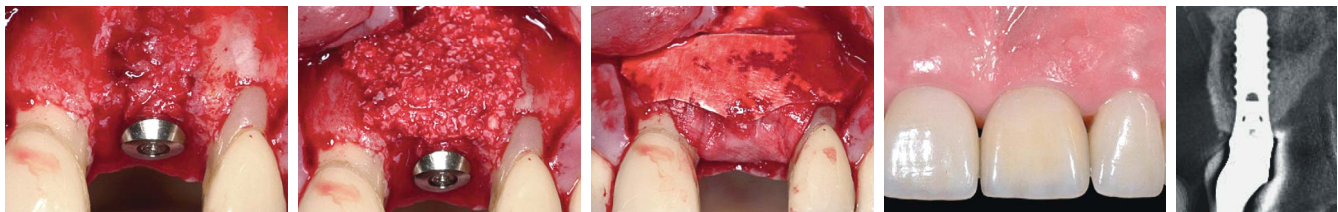
Human Bone



Bone tissue (BT) and osteoclasts cells (*) inside ABB particles (Masson trichrome X400).⁴

Predictable Clinical Outcomes

Geistlich Bio-Oss® and Geistlich Bio-Gide® are the ideal biomaterials for procedures where autologous bone is utilized. Geistlich Bio-Oss® provides a stable scaffold for bone formation leading to long-term volume preservation, while Geistlich Bio-Gide® ensures undisturbed bone regeneration and prevents soft-tissue ingrowth.



Prof. Daniel Buser (Bern, Switzerland)

- 1 Defect filled with autogenous bone
- 2 Contour augmentation is achieved with Geistlich Bio-Oss®
- 3 The augmentation material is covered with Geistlich Bio-Gide® applied with a double-layer technique
- 4 An optimal esthetic outcome and stable tissue height at 5 year follow-up



With Effective Tools for Bone Harvesting

That Bring Ease and Versatility

META Bone Harvesting Instruments utilize a manual harvesting technique which allows the graft to retain cell viability, essential for graft integration.⁷ Due to their excellent cutting efficiency, they are atraumatic, effective on any bone surface (plane, concave, convex), and accelerate harvesting time. The collected bone shavings are the appropriate size and thickness for graft integration and contain well-preserved bone cells, including osteocytes, osteoblasts, osteoclasts and osteoprogenitor cells.^{7,8}



SafeScraper TWIST

Combining Versatility and Flexibility

- Curved tip facilitates easy access to donor sites which makes it ideal for both minor and major harvesting procedures
- Ergonomic design provides excellent control during the harvesting procedure
- **Collection chamber capacity: 2.5 cc**



Micross

Enhanced Performance and Efficiency

- Exclusive micro-blade allows easy bone collection
- Narrow profile provides the ability for bone collection at the defect site
- Designed for tunneling surgical techniques, minimizing patient discomfort
- **Collection chamber capacity: .25 cc**



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

For more information on contraindications, precautions, and directions for use, please refer to the Instructions for Use at:
dental.geistlich-na.com/ifu

¹ Urban IA, et al.: Int J Periodontics Restorative Dent. May-Jun 2013
² Testori T, et al.: Int J Periodontics Restorative Dent. Jul-Aug 2013
³ Buser D, et al.: J Periodontol. November 2013
⁴ Galindo-Moreno P, et al.: Clin Oral Implants Res. Jan 2013
⁵ Jensen SS, et al.: J Periodontol. Nov 2014
⁶ de Vicente JC, et al.: Clin Oral Implants Res. Apr 2010
⁷ Zaffe D, et al.: Clin Oral Implants Res. Aug 2007
⁸ Miron RJ, et al.: Clin Implant Dent Relat Res. Aug 2013