

Biofunctionality in practice

In daily clinical practice evidence from the literature should be considered to identify which materials show the most predictable results. The widely used and documented inorganic bone matrix Geistlich Bio-Oss® leads to a successful long-term outcome of augmentation, combining optimal osseointegration with volume preservation, both of which are crucial for implant survival. Geistlich Bio-Oss® may also be placed over autogenous bone grafts, taking advantage of its biofunctional properties to compensate for bone resorption.

Volume Preservation in horizontal ridge augmentation⁸



Preoperative panoramic radiograph showing partially edentulous ridge at teeth 32, 31, 41.



Bone resorption and ridge width reduction can be seen in the edentulous area.



Bone block harvesting from chin.



Veneer graft fixation and Geistlich Bio-Oss® contouring and covering.



Soft-tissue healing 4 months after surgery.




Occlusal view showing complete preservation of the graft volume after 6 months.



Dental implants in place.



Postoperative panoramic radiograph.



new Bone

Optimal soft-tissue healing

One of the essential advantages of the natural structure of Geistlich Bio-Gide® is the excellent wound healing properties resulting from its good vascularisation and tissue integration.^{13,14} Less dehiscence occurs with Geistlich Bio-Gide® compared to synthetic or altered collagen membranes.¹⁻¹⁵ Even in case of dehiscence, the soft tissue usually heals uneventfully and a further augmentation is not necessary.

An optimal and predictable outcome despite soft-tissue dehiscence (Dr. Bormann/Prof. Dr. Dr. Gellrich)



The augmentation is covered with Geistlich Bio-Gide®.



Occurrence of soft-tissue dehiscence (7 days postop.).



Complication-free healing of the dehiscence (4 weeks postop.).



Implant insertion (12 weeks postop.). Despite dehiscence, augmentation was successful.

Predictable outcome in the aesthetic zone

The soft-tissue outcome in the aesthetic zone is particularly crucial for the success of the therapy. Many surgeons rely on Geistlich Bio-Gide®, which helps to achieve an optimal and predictable outcome, even in difficult cases.

(PD Dr. Jung).



Bone defect visible after flap elevation.



Augmentation of the defect after implant installation with Geistlich Bio-Oss® particles.



The augmentation is covered with a Geistlich Bio-Gide®.



Optimal aesthetic outcome expressed as optimal bone and soft-tissue healing.

The All-rounder in practice

Thanks to its biofunctionality, Geistlich Bio-Oss® has a broad range of indications. A large number of long-term studies confirms this for indications in implantology, periodontology or cranio-maxillofacial surgery.



Peri-implant defects



Horizontal augmentation



Sinus floor elevation

Geistlich Bio-Oss® small and large granules



Geistlich Bio-Oss® Collagen 100 mg and 250 mg

Ridge augmentation



Extraction sockets



Vertical augmentation

