

Young et al., 2025



Private
Practice



20
Patients
(Four Presented)



9-13 Month
Follow-up



DISCLAIMER

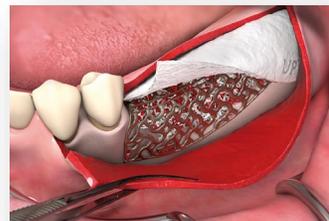
The following page contain summaries of data published by Young et al., 2025 as interpreted by Geistlich. Although we try to reflect to the best of our knowledge the results and conclusions of the cited studies, errors cannot be excluded. We explicitly emphasize that the authors of the cited study cannot be held responsible for the content of the summaries.

Two Stage Implant Placement (Vertical & Horizontal Ridge Augmentation)

Customized Bone Regeneration for Complex Ridge Defects Using Yxoss® CBR

Digitally Designed Predictability for Challenging Ridge Defects

- ✓ Multi-tooth horizontal & vertical defects
- ✓ Posterior mandible vertical deficiencies
- ✓ Anterior maxillary ridge reconstructions
- ✓ Full-arch pre-implant augmentation with sinus lifts



Allowing clinicians to manage defects of different sizes, locations, and complexity with consistent regenerative outcomes.

Digitally Designed Predictability for Challenging Ridge Defects

- ✓ 100% implant placement success across all 20 cases
- ✓ Geistlich Bio-Gide® placed over every mesh to support vascularization, block soft-tissue ingrowth, and help minimize mesh exposure — contributing to the high overall success rate.



Key Message

Yxoss CBR®, enhanced by Geistlich Bio Gide® protection and $\geq 50\%$ autogenous bone, consistently achieves stable and predictable results in even the most challenging vertical and horizontal ridge augmentation cases.

Study Results

- **Yxoss CBR® Increases Predictability:** Precise CBCT-based design reduces surgical time and lowers mesh-exposure risk.
- **Autogenous Bone Is Key:** $\geq 50\%$ autogenous bone consistently improved vertical augmentation outcomes.
- **Geistlich Bio-Gide® Supports Successful Healing:** Geistlich Bio-Gide® over the mesh prevents soft-tissue ingrowth and enhances vascularization.
- **Low Exposure, High Success:** Only two minor exposures across 20 cases; implants placed successfully in all patients.
- **Stable, Significant Regeneration:** Reliable horizontal and vertical gains confirmed on CBCT at 6–10 months.



Level 4: Case Series (Clinical Review)



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To examine the clinical effectiveness of digitally designed, patient-specific titanium mesh for challenging ridge augmentation cases.