

Froum et al., 2013



Academia



24

Patients



4-5 & 7-9

Month

Follow-up



DISCLAIMER

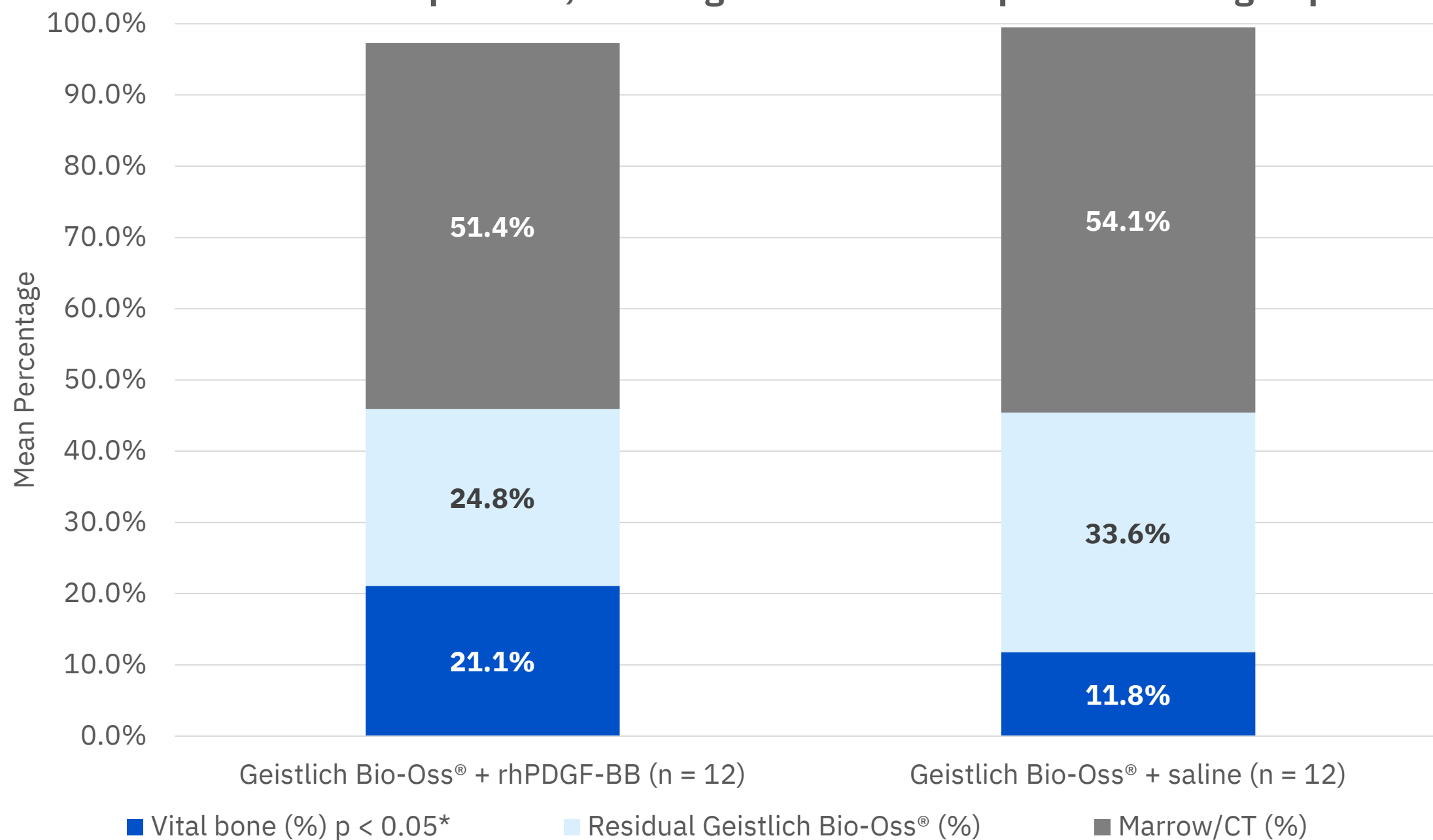
The following page contain summaries of data published by Froum et al., 2013 as interpreted by Geistlich. Although we try to reflect to the best of our knowledge the results and conclusions of the cited studies, errors cannot be excluded. We explicitly emphasize that the authors of the cited study cannot be held responsible for the content of the summaries.

Sinus Augmentation

Histomorphometric Comparison of Bio-Oss ± rhPDGF-BB for Sinus Augmentation

Histomorphometric Analysis at 4–5 Months

N = 12 patients, covering 12 treated sites per treatment group



Key Message

This prospective, randomized, controlled bilateral study on sinus augmentation demonstrates that the use of rhPDGF-BB enhances early vital bone formation compared with Bio-Oss® alone, which may facilitate earlier implant placement.

Study results

- **Accelerated Early Bone Formation:** At 4–5 months, the addition of rhPDGF-BB to Geistlich Bio-Oss® resulted in ~10% greater vital bone formation compared to Geistlich Bio-Oss® alone.
- **Earlier Implant Placement Potential:** Enhanced early bone formation with rhPDGF-BB may enable earlier implant placement, while maintaining comparable bone quality and predictability at later healing stages.
- **Predictable Long-Term Bone Quality:** By 7–9 months, vital bone levels were similar between groups, confirming that early acceleration does not affect long-term regenerative outcomes.
- **Controlled, Bilateral Study Design:** Each patient served as their own control, strengthening the clinical relevance of the findings.



Level-1
Randomized
Bilateral Study



24 Patients



Academia



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To compare histologic and histomorphometric bone regeneration outcomes at 4–5 and 7–9 months following sinus augmentation using Bio-Oss® with or without rhPDGF-BB..