

Soldatos et al., 2026



Academia



3

Patients



13-17 Week
Follow-up



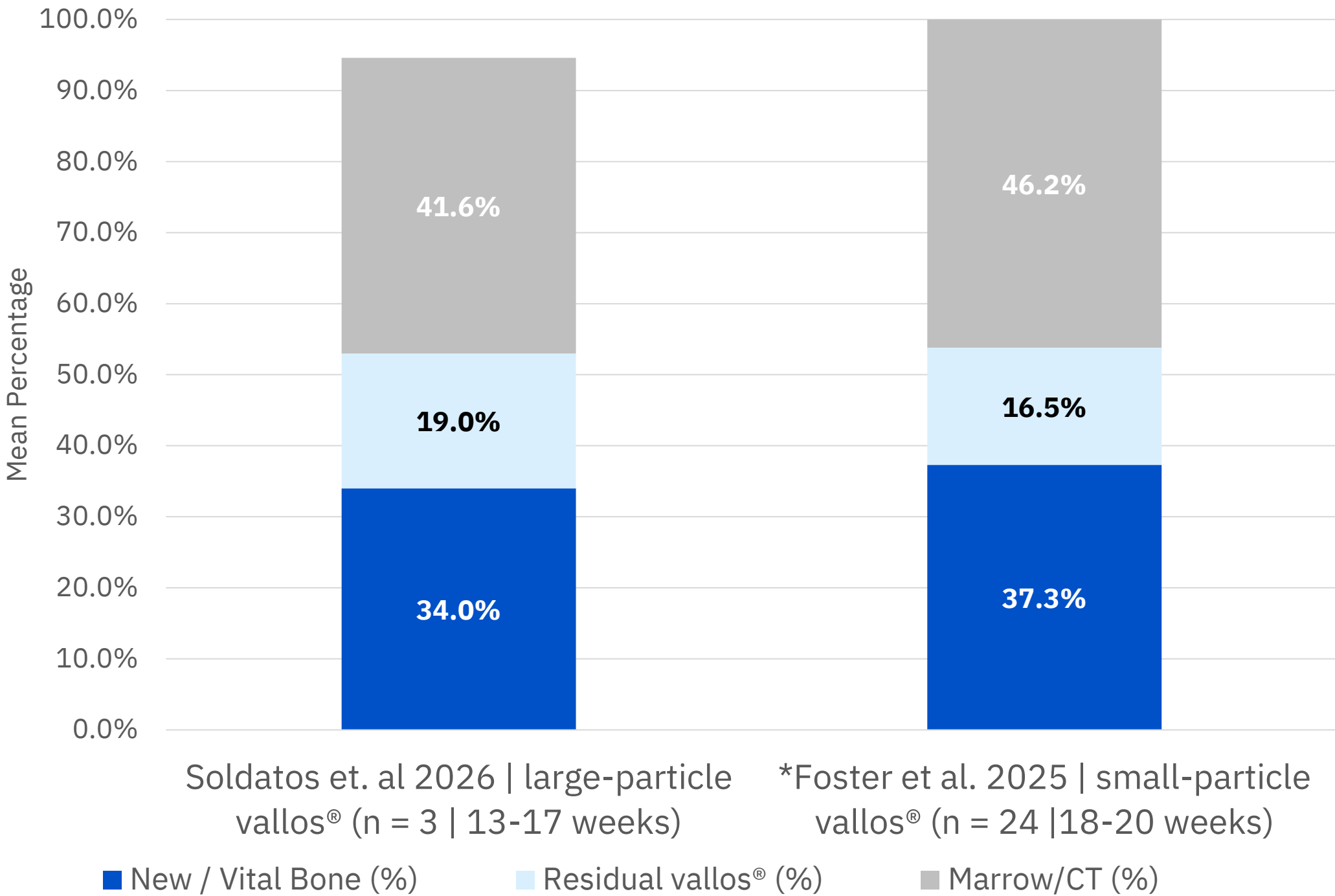
DISCLAIMER

The following page contain summaries of data published by Soldatos et al., 2026 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.

Human Pilot Case Analysis – Early Graft Behavior

Histologic & Histomorphometric Analysis at 13–17 Weeks

N = 3 (large-particle vallos®) vs. N = 24 (small-particle vallos®, literature)



Key Message

Aseptically processed demineralized vallos® reliably creates highly mineralized, vital bone within 3–4 months — with clean histology, predictable turnover, and no inflammatory response.

Study results

- **Predictable, High-Quality Bone Regeneration:** Aseptically processed demineralized vallos® produced consistent new bone formation across all cases, supporting early implant placement with dense, well-vascularized regenerated bone.
- **Strong Biological Integration:** Histology showed direct bone–graft contact, including osteocyte repopulation of demineralized vallos® lacunae, confirming active remodeling and stable incorporation into host bone.
- **Advanced Bone Maturity at 3–4 Months:** Biopsies demonstrated high levels of mineralization (~90%) and clinically dense Type II bone, indicating that the regenerated bone reaches early mechanical competence suitable for implant stability.



Level 4 Evidence:
Case Series



3 Patients



Academia



13-17 Weeks

 The aim of this study was to characterize early bone formation and graft integration after ridge preservation using large-particle vallos®.

Percentages may not sum to 100% due to rounding and independent reporting of histomorphometric components.
Soldatos et al. *J Periodontol.* 2026; 1-11. <https://doi.org/10.1002/jper.70181> [Read Now](#)
Foster et al *J Periodontol.* 2026;97:23–33. <https://doi.org/10.1002/jper.11374>. [Read Now.](#)