

ethOss® Grow Stronger®



High Demanding Aesthetic Anterior Case

Dr Peter Bouboulos

Patient Medical History:

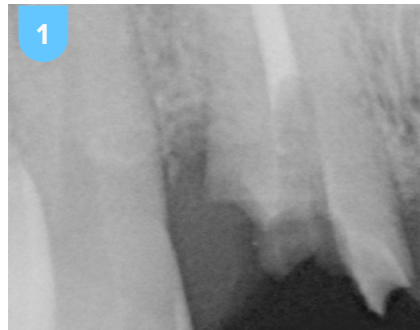
A healthy female in her 30s attended the practice. This patient presented with a failed post and core crown on the upper left central incisor, no medical conditions noted.

Procedure:

The tooth root was extracted and the socket was preserved once thoroughly degranulated. An immediate implant fixture was placed in the 11 position along with the inclusion of EthOss Bone Regeneration material utilising the protocol of Bone Augmentation with Simultaneous Early Implant Placement!

Conclusion:

This case highlights the amazing gingival morphology that can be achieved with EthOss and careful manipulation of the soft tissues.



1 Pre-operative condition failed post-core crown



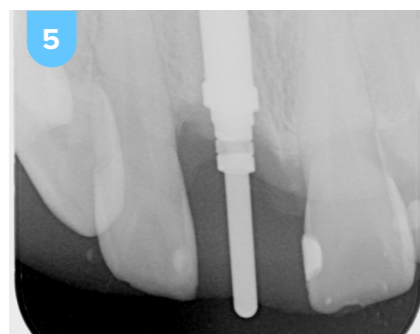
2 Initial failed left central incisor



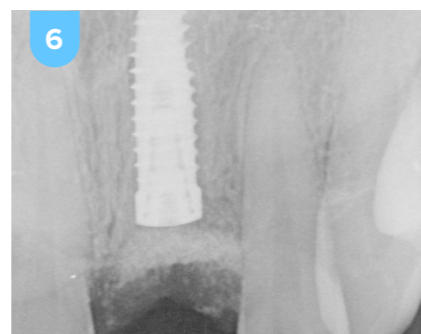
3 Labial bone destruction evident



4 Ideal prosthetic cingulum screw retained placement guide



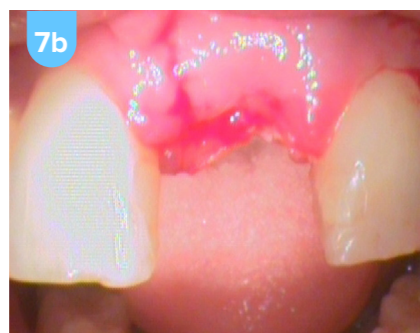
5 Guide at 13mm prior to augmentation with EthOss



6 Chemical bond to host bone, CS and Beta-TCP formula hardens and adheres to host bone



7a Soft and hard tissue volume increase post surgery



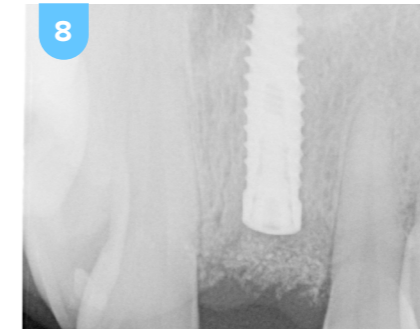
7b Soft tissue healing



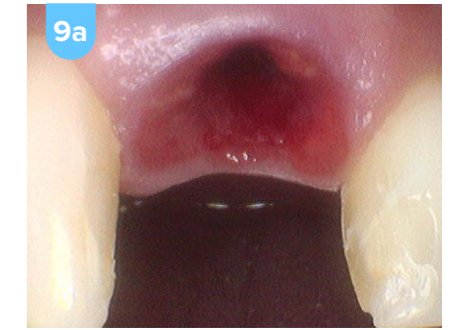
7c Soft tissue healing



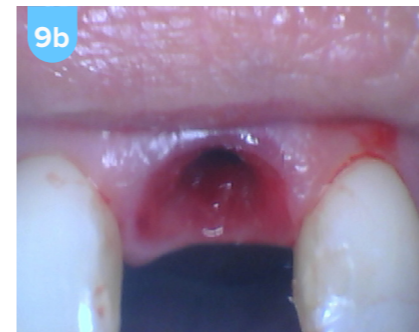
7d Soft tissue healing



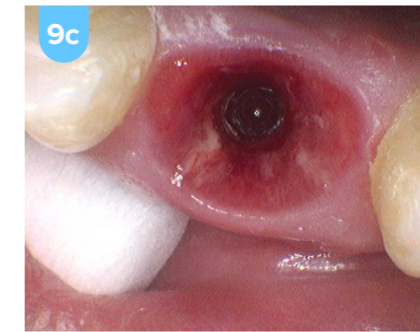
8 3 month follow up shows osteoconductivity, bioactive properties, gradual resorption and replacement with host bone



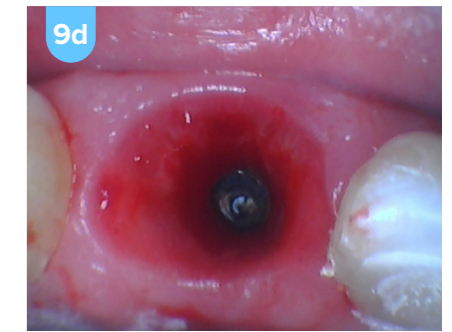
9a After long term temporisation. Enhanced gingival contour and emergence profile



9b Gingival contour and emergence profile



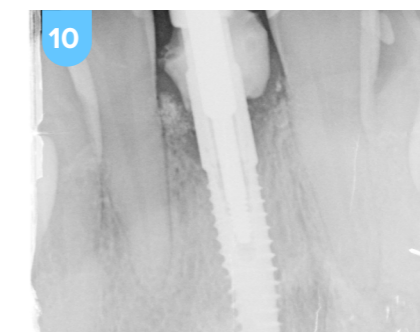
9c Gingival contour and emergence profile



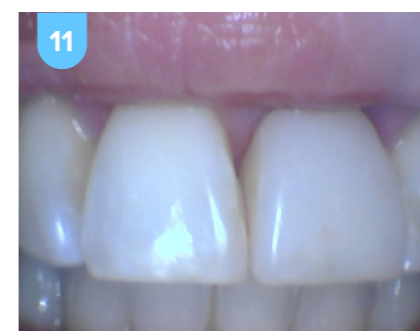
9d Gingival contour and emergence profile



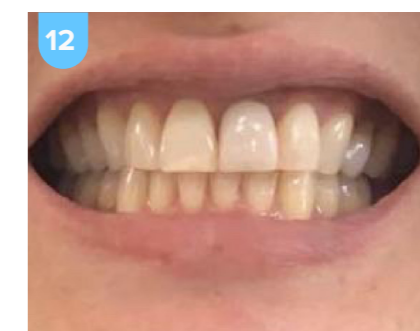
9e Gingival contour and emergence profile



10 Customised open tray impression coping



11 Final restoration



12 Healthy gingiva at final restoration

References

1. Protocol for Bone Augmentation with Simultaneous Early Implant Placement: A Retrospective Multicenter Clinical Study. Fairbairn P. and Leventis M. International Journal of Dentistry. Vol 2015; Article ID 589135, 8 pages, 2015. <https://doi.org/10.1155/2015/589135>
2. Osteoimmune regulation underlies oral implant osseointegration and its perturbation. T. Albrektsson et al. Front Immunol. 2023 Jan 24;13:1056914. doi:10.3389/fimmu.2022.1056914. PMID: 36761175. PMCID: PMC9902598
3. Biological Impact of Alloplastic Bone Graft vs Bovine Xenograft and Allograft Materials in Bone Healing: An Experimental Study. M. Ali Saleh Flifl et al. J Contemp Dent Pract. 2022 May 1;23(5):482-491. PMID: 35986454.