Immediate Postextraction Implant with Simultaneous Buccal Plate Augmentation, Restored with Lithium Disilicate Abutment and Veneer: A Clinical Report

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Objective
To describe the successful use of biphasic calcium sulfate (BONDBONE™, MIS Implants Technologies Ltd.) for improving the buccal plate thickness in an immediate postextraction implant, and its final restoration with custom lithium disilicate abutment and veneer.

Summary
A hopeless lateral incisor was replaced with an immediate postextraction implant in conjunction with a buccal plate augmentation based on biphasic calcium sulfate. Satisfactory soft tissue height and quality were maintained following healing. The final restoration managed the severely reduced prosthetic space due to deep bite, and allowed an adhesive luting procedure.

Conclusion
The use of biphasic calcium sulfate in conjunction with HA/β-TCP proved effective for preserving adequate soft tissue esthetics around an immediate postextraction implant. The use of a "veneer prepared" lithium disilicate abutment that allows surface conditioning of both interfaces, combined with a lithium disilicate veneer, could be a viable solution for a single-implant restoration in the esthetic zone, especially in cases of deep occlusion.