Horizontal Bone Augmentation with the Cortical Lamina Technique: A Case Report

ABSTRACT
The clinical case reported in this article shows the oral rehabilitation of a 28 years old female patient affected by agenesis and asking for a proper occlusion restoration. 3D evaluation showed a severe type of horizontal bone resorption in both molar area. In the lower left side, in order to place a standard diameter implant, an augmentation was performed with the aid of a bone lamina (OsteoBiol® Lamina, Tecnoss®, Giaveno, Italy) technique, associated with a mixture of autogenous bone and collagenated porcine bone graft (OsteoBiol® Gen-Os®, Tecnoss®). Six months after bone augmentation, the ridge showed a width of 7 mm as compared to the 2 mm at baseline. Also the x-ray evaluation showed the proper bone augmentation, allowing the placement of a 4.1 diameter dental implant in order to re-establish function and proper occlusion. The three years follow up confirmed the stability of the regenerated area.

CONCLUSIONS
Based on the results, the Authors concluded that “Cortical Lamina technique represents nowadays a reliable solution for treatment of moderate to severe horizontal bone defects. In this specific case agenesis resulted in a severe horizontal defect. The Lamina favored about 6 mm of horizontal bone regeneration that guaranteed the success of the case”.

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