



Reconstruction of a Horizontal and Vertical Bone defect using The Cortical Lamina Technique

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ABSTRACT

After tooth extraction, the management of horizontal and vertical bony defects can be challenging if a proper surgical technique is not used. In particular, posterior mandible represents an anatomical area where often complications arise. Different procedures are available and each one features advantages and disadvantages.

In this article, the Authors present the use of OsteoBiol® *Lamina* (TecnoSS®, Giaveno, Italy) which is a collagenated porcine cortical bone membrane, available in three different versions and featuring holes and channels on its surface, supporting the re-vascularization of the grafted area.

In the case here presented, a 45 years old female patient showed an edentulous ridge with a horizontal and vertical defect. To treat the defect, a collagenated porcine xenograft (OsteoBiol® *Gen-Os*®, TecnoSS®) was mixed with autogenous blood clot, providing a “sticky bone” to be applied in the augmentation area. Following, an OsteoBiol® *Lamina* was shaped and applied in order to protect the grafted area. The success of the procedure was confirmed by x-ray evaluation. Moreover, post-operatively the patient did not report any complication or discomfort.

CONCLUSIONS

The volumetric changes of the case here presented were recorded and evaluated by means of a software capable to show all three dimensional variations. The results were encouraging, leading the Authors to conclude that *“the Cortical Lamina technique shows promising results in solving otherwise complex cases of horizontal, vertical or combined ridge augmentation. Many ongoing studies will soon provide further confirmation of its usefulness for patients and clinicians”*.

R Rossi¹
E Foce²

1 | Private Practice, Genova, Italy
2 | Private Practice, La Spezia, Italy

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