



A new interpretation of guided implant surgery to achieve an optimal result in the esthetic zones

ABSTRACT

In this article, the Authors present a case report showing a combination of the use of regenerative procedures and guided surgery in order to achieve the optimal reconstruction of the bony housing and the surrounding soft tissue, maximizing the aesthetic result. Actually, several studies have indicated that a careful extraction followed by the application of a bone graft or bone substitute in the extraction socket can help reducing the remodelling in a significant way. Once the bone volumes have been restored, implant navigation systems allow a more predictable implant treatment in all those clinical situations where aesthetics becomes important. A female 42-years-old patient presented an increased mobility of the upper left incisor and the tooth was deemed hopeless. After its extraction, bone augmentation was performed with the use of a collagenated porcine bone graft (OsteoBiol® mp3®, Tecnos®, Giaveno, Italy). In order to protect the bone graft, two collagenated resorbable membranes (OsteoBiol® Evolution, Tecnos®) were placed in layers, in in order to isolate the connective tissue and the epithelium from the area grafted and support and increase the thickness of soft tissues. The CBCT taken twelve months after surgery showed the success of the regeneration procedure, with a very good profile in both vertical and horizontal aspects and the presence of the interdental papilla both mesially and distally. These good results allowed to continue with the guided implant surgery.

CONCLUSIONS

As stated by the Authors, *“the treatment modality described in this paper is a staged approach that allows the clinician to take advantage of all the newest techniques and procedures in terms of biomaterials, surgery and prosthetics in order to achieve an optimal aesthetic and functional result”*.

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