Socket Preservation with OSSIX™ Bone

A Case Study by Alberto Monje, DDS, MS, PhD

At Dentsply Sirona Regenerative Solutions, we strive to provide you with the latest advancements and trends in guided bone regeneration and guided tissue regeneration (GBR/GTR). Learn from clinical case studies tailored for dental professionals like you and elevate your practice.

Background

In this case, the patient presented with acute pain that increased when biting, and upon radiographic analysis, a combined endo-perio lesion was identified, which worsened the patient's prognosis for the first molar.

Case Description

Due to the proximity of the maxillary sinus floor, ridge preservation was conducted with OSSIX™ Bone to minimize dimensional changes. Moreover, platelet-rich fibrin was used to enhance the stability of the bone filler. A re-entry was performed four-month later to place the implant without the need for additional ridge augmentation. A cone beam computed tomography was performed at the two-year follow-up for other reasons. A thick buccal bone is visible, which will contribute to the prevention of biological complications in the future.

About the Clinician, Dr. Alberto Monje, DDS, MS, PhD

Dr. Alberto Monje obtained his certificate and Masters in Periodontology from the University of Michigan, Department of Periodontics and Oral Medicine. He is certified by the American Board of Periodontics.

He was the recipient of the ITI Scholarship for 2016-2017 at the University of Bern mentored by Prof. Daniel Buser.

Dr. Monje is a PhD in the field of Alveolar Bone Architecture granted by the University of Granada in Spain. He maintains a private practice exclusively in Periodontics and Implant Dentistry.

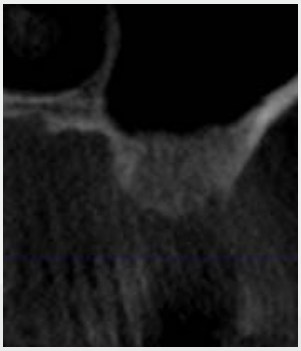
He is an adjunct professor at the Department of Periodontics of the Universitat Internacional de Catalunya in Barcelona and at the Department of Periodontics and Oral Medicine at the University of Michigan, Ann Arbor, Michigan, USA.

Pre-Op

The baseline case scenario

A cone-beam computed tomography indicating a significant loss of support

Post-Op



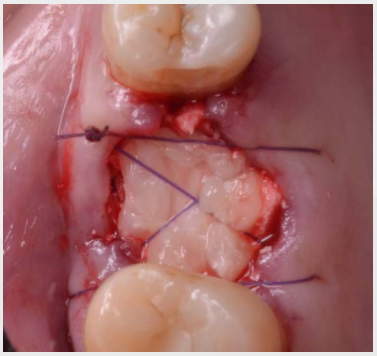
A cone-beam image after socket grafting but before implant placement. Was taken four-month after the extraction/graft.

Surgery

Post-molar extraction residual ridge

OSSIX™ Bone being used for ridge preservation

A clinical image taken at a four-month follow-up following bone grafting



In order to provide further stability to the bone filler, platelet rich fibrin was used

Follow Up

Occlusal view at two-year follow-up

A cone-beam computed tomography taken at two years in which buccal bone stability can be seen

Periapical x-ray that demonstrates bone stability

Clinical image displaying peri-implant health and soft tissue stability

OSSIX™ Bone - Your Choice for Neoformation of Vital Bone

The OSSIX™ Bone is a revolutionary regenerative bone graft that provides vital bone (no remnants), structurally similar to vital native bone[1]. This sponge-like ossifying[2] block, powered by GLYMATRIX® technology, provides an ample environment for vascularization and cellular proliferation[3]. Due to its structure, there is no particle migration[1]. This unique bone graft can be used in various regenerative procedures, while one of its advantages is in socket preservation without a membrane[1].

Reference

1. Casarez-Quintana A, et al (2022). Comparing the histological assessment following ridge preservation using a composite bovine-derived xenograft versus an alloplast hydroxyapatite-sugar cross-linked collagen matrix. Journal of Periodontology, 2022;1–10
2. Alveolar Ridge Restoration Using a New Sugar Cross-linked Collagen-Hydroxyapatite Matrix in Canine L-shape Defects. Zubery Y, Goldlust A, Bayer T, Woods S, Jackson N, Soskolne W.A., AO Academy of Osseointegration 2017 Annual Meeting
3. Brant-Roznavi M, Aizenbud D, OSSIX® Volumax Collagen Scaffold Characterization by Cell Proliferation, differentiation and Vascularization, Rambam Health Care Campus, Faculty of Medicine –Technion, Israel, 2017.

* Dr. Monje receives financial support from Dentsply Sirona

Please read the IFU before use and for additional information on indications, contraindications, warnings, and precautions.
For more information on OSSIX® regenerative products and activities in your region: regenerative.dentsplysirona.com

MKT-0003088 VEV-01

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