

Who's Attending (2)

Description

**Title:** 1567 - Titanium foil concept for alveolar Ridge Preservation: case series analysis

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**Abstract:**

**Objectives:** The aim of this clinical prospective study was to evaluate the change in the alveolar ridge dimension after 6 months post-surgery by means of a new alveolar ridge preservation (ARP) technique, using an anodized titanium membrane (Tseal) in association with xenograft bone graft.

**Methods:** Sixteen healthy patients presenting one hopeless tooth were selected and these teeth were carefully extracted. The alveolar socket was filled with anorganic bovine bone graft and the Tseal was trimmed and adapted over the bone crest. Nylon sutures were used to hold the Tseal in position and, at twenty-one days post-extraction, the Tseal was removed. The measurements of the alveolar dimension (AD) were recorded at baseline and 6 months post-extraction. The distance between the buccal and palatal bone plates in the center of the alveolar socket, 1 mm above the palatal crestal bone, was measured using cone beam tomography.

**Results:** Imaging assessment of AD presented a decreased value in all subjects. Intergroup analysis showed statistically significant differences between baseline and at the 6 months evaluation in the absolute rate and percentage of absorption. The average AD varied from  $9.88 \pm 2.04$  mm (baseline) to  $8.85 \pm 1.92$  mm (6 months). On average, this ARP procedure maintained  $89.55\% \pm 6.11\%$  of the distance of between the buccal and lingual wall, at 6 months after tooth extraction. The treatment protocol preserved  $86.48\% \pm 4.42\%$  of the distance between the buccal and lingual wall in the upper jaw and  $93.57\% \pm 5.86\%$  in the lower jaw at six months post-extraction. No differences were observed between the upper and lower jaws ( $p > 0.05$ ).

**Conclusions:** In conclusion, application of a bovine bone graft covered with Tseal resulted in a clinically important horizontal preservation of the alveolar ridge at 6 months after extraction.

**Disclosure Statement:**

The submitter must disclose the names of the organizations with which any author have a relationship, the nature of the relationship, and the clinical or research area involved. The following is submitted: **NONE**

Tags

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