



**IMPLANTATPRAXIS**  
& ÄSTHETISCHE ZAHNHEILKUNDE

## PUBLIKATIONEN

**»The bone lamina technique: a novel approach for lateral ridge augmentation - a case series.«, Wachtel H, Fickl S, Hinze M, Bolz W, Thalmair T.  
Int J Periodontics Restorative Dent. 2013 Jul-Aug.**

### ABSTRACT

The goal of this case series is to present a novel treatment approach for lateral ridge augmentation. Four systemically healthy patients (aged 48 to 59 years) with inadequate dental alveolar ridge widths were selected for inclusion. All ridge defects were augmented using a xenogeneic cortical bone shield in combination with particulated bone substitutes and a thin collagen barrier. At baseline and after 6 months, digital cone beam computed tomography scans were performed. Biopsy specimens were harvested at reentry surgery and processed for histologic analysis. The results revealed a sufficient amount of bone structure for implant placement without additional augmentation procedures. The histologic analysis demonstrated that new bone formation had taken place and the bone shield had resorbed entirely. This case series indicates that the bone lamina technique has the biologic and mechanical properties to successfully achieve hard tissue augmentation of deficient ridges.

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