

# Alveolar Bone Augmentation with Synthetic Bone Substituent – Case Report

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**Aim:** Bones and teeth are the only structures within the body where calcium and phosphate participate as functional pillars. Despite their mineral nature, both organs are vital and dynamic.

The aim was to remark the indications for *alveolar augmentation* after tooth extraction and prior the placement of endo osseous dental implants.

**Case report:** Female patient (31 years old) visited our clinic. Diagnosis was periodontitis of 36 and there was the indication to remove the tooth and to make reconstruction of alveolar ridge in order to place the implant in a sufficient volume bone. Implant placement occurred nine months after the tooth extraction, but because of good bone regeneration, confirmed on x-ray, the implant placement with immediate loading was made after six months. The local process of bone regeneration was stimulated and the chance of a good clinical output was increased.

**Results:** advantages of alveolar ridge augmentation with sufficient bone volume to adjust for uncompromised and esthetic implant placement, renders these procedures more than effective for majority of patients.

**Conclusion:** Surgical reconstruction of the tissues and the procedure of ridge augmentation and subsequent placement of dental implant are necessary.