

## Successful ridge augmentation with simultaneous dental implant placement using Straumann Bone Ceramic

Courtesy of the University of Bern



1 The clinical situation shows two Narrow Neck implants placed in a deficient site in the anterior mandible.



2 Autogenous bone chips are first placed around the dental implants.



3 Next, the remaining defect volume is filled with Straumann Bone Ceramic mixed with the patient's blood, which is then modeled to the desired shape.



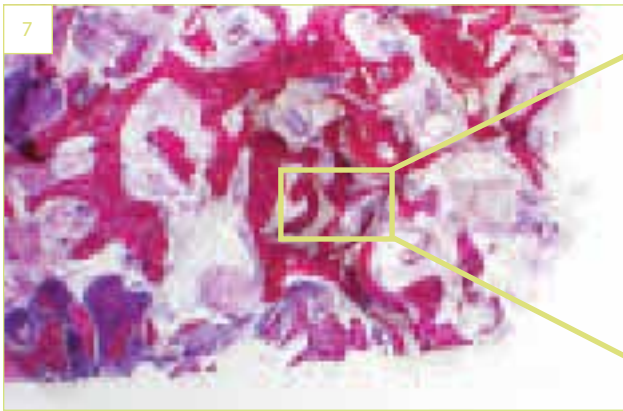
4 Before wound closure, the augmented site is covered with a collagen membrane.



5  
After 14 days of uneventful healing, the provisional restoration is bonded to the adjacent teeth.



6  
Six months after implant placement, the final restoration is fitted. During the same procedure, a biopsy from the augmented site is retrieved.



7  
1x magnification



8  
6.3x magnification

The histology shows the particle remnants (\*) integrated in newly formed bone (red staining). The presence of osteoid (purple staining) indicates that bone formation is still ongoing.

Radiographs show:



The osseous defect preoperatively.



The clinical situation two months after surgery.