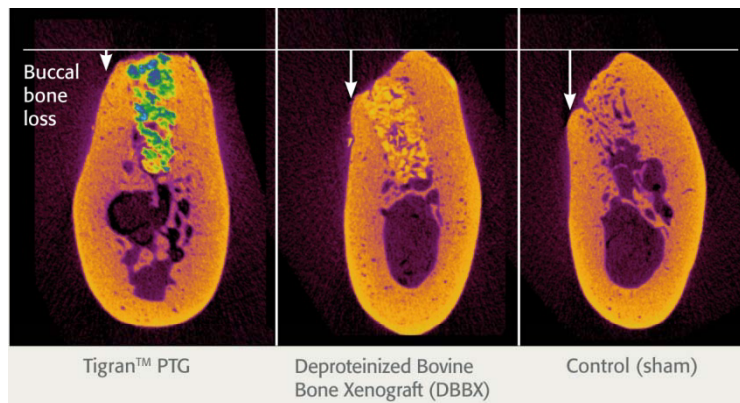


## The Effect of Permanent Grafting Materials on the Preservation of the Buccal Bone Plate after Tooth Extraction. An Experimental Study

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- ❖ Dog study
- ❖ Indication: Extraction sockets
- ❖ Aim: To evaluate the effects of porous titanium granules, a deproteinized bovine bone xenograft (DBBX) and sham in fresh extraction sockets with and without membrane

### ❖ Histological observations

*Intimate contact between titanium & newly formed bone, new bone both inside & around the granules.*

*DBBX has newly formed bone around the particles. After six months little evidence of inorganic bone being replaced by bone.*

### ❖ Discussion

*Autologous bone grafts are gold standard but prone to resorption<sup>1</sup>  
DBBX delays socket healing, resorption rate 10% per year<sup>2</sup>*

### ❖ Conclusions

*Porous titanium granules act as an effective scaffold & have osteoconductive properties*

1. Wheeler et al 1997, 2. Klinge 1992, Berglundh & Lindhe 1997, Hürzeler et al. 1997; Hämmerle et al. 1998.