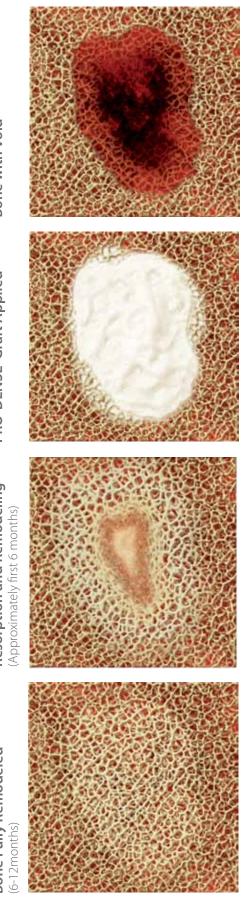
PRO-DENSE® Injectable Regenerative Graft



Mechanism of Action

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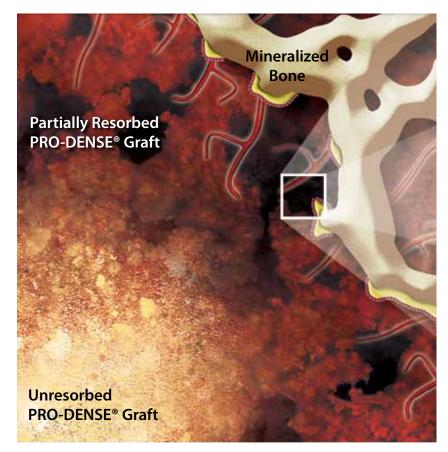


Predictable Bone Regeneration.

Dense, Direct Bone Deposition

PRO-DENSE® Injectable Regenerative Graft has a unique triphasic resorption profile that provides an ideal environment for the direct deposition of bone by binding growth factors' and by providing a slow-resorbing matrix that supports healing across the defect.

The following illustrations describe the basic steps in the process of new bone formation.



All claims are based on a critically sized canine proximal humerus defect model. It is unknown how results from the canine model compare with clinical results in humans.

Bone with Void

PRO-DENSE[®] Graft Applied

Resorption and Remodeling

Bone Fully Remodeled

Mechanism of Action



 Angiogenesis is a key early event. The CaSO4 of the implant resorbs first, revealing a calcium phosphate scaffold conductive to vascular infiltration.

2 The resulting brushite/TCP scaffold with interconnecting pores binds free proteins such as VEGF and BMP-2, effectively concentrating them in the implant/defect interface region.

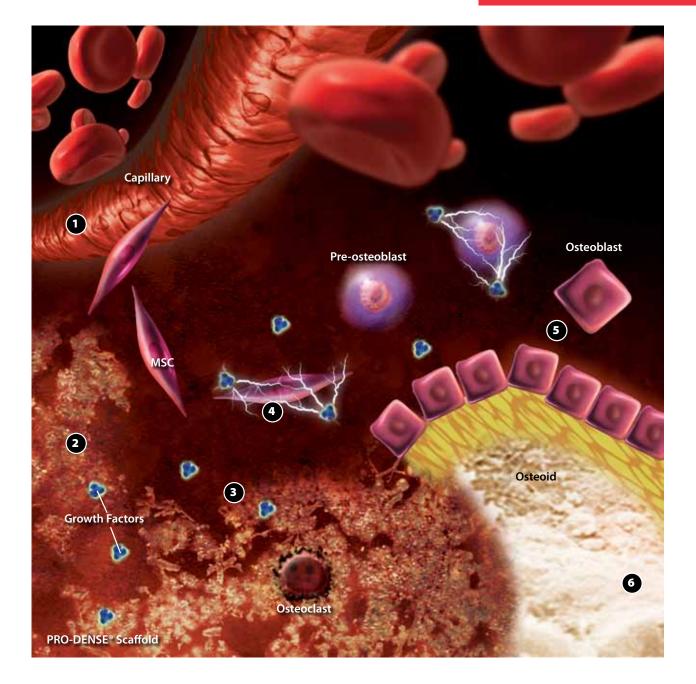
Resorption of the phosphate scaffold releases bound proteins. Active proteins recruit cells to the implant surface.

4 Growth factors in the implant/defect interface region, including BMPs, stimulate proliferation and differentiation of mesenchymal stem cells.

5 Differentiated osteoblasts lay down osteoid which then mineralizes to become newly woven bone.

6 The principles of Wolff's Law drive remodeling.

The patient's own Growth Factors involved in the chemotaxis, proliferation, and differentiation of stem cells and bone forming cells include factors such as VEGF (vascular endothelial growth factor), PDGF (platelet-derived growth factor), IGFs (insulin-like growth factors), TGF-B (transforming growth factor-B), FGFs (fibroblast growth factors), and BMPs (bone morphogenic proteins).





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