NOVABONE®

Bioactive Synthetic Graft

Superior Resorption Profile:

NovaBone is resorbable; it will completely resorb within 8 to 12 months leaving behind newly formed host bone. NovaBone particles are absorbed by a combination of surface dissolution and cellular action. This allows bone ingrowth and normal remodeling.

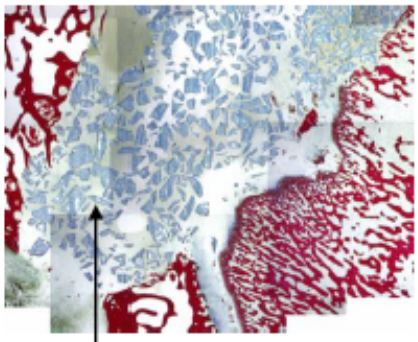
NovaBone has an optimal resorption time:

* It is not permanent filler like PMMA
* It does not act as a long-term composite like hydroxyapatite, HA
* It will not absorb too quickly like medical grade calcium sulfate.

Below is an in vivo evaluation of a critical sized defect in proximal tibia of goats.
1.) Immediate post-implantation – Particles of NovaBone are present around host bone.
2.) Results at 6 weeks – Bone formation in grafted areas between NovaBone particles, with particles linked by new bone.
3.) Results at 52 weeks – Extensive new bone formation and remodeling.

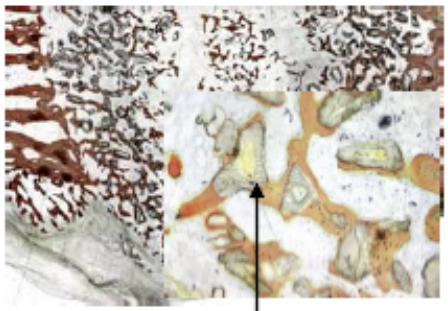
- *DM Geisser, DL Wheeler, DC Greenspan - Presented at Society for Biomaterials annual meeting, Tampa, Florida, April 2002*

Immediate post-implantation



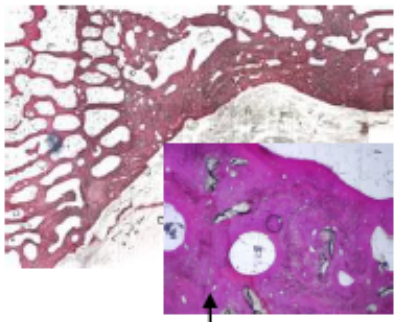
NovaBone Particles

6 weeks post implantation



NovaBone Particles, linked by new bone.

52 weeks post implantation



Complete resorption, new bone formation.

* Additional resorption data related to NovaBone found in evidence section, NovaBone Putty and Particulate vs. Actifuse.