Bio-Oss® vs Bioglass®

Bio-Oss® **Claims** it may be Resorbable.

Bioglass® Products **ARE** Resorbable!!!
(NovaBone®, NovaBone C/M, PerioGlas®)

The **ONLY** bone graft material which is:

- Cleared for Oral/Periodontal, Cranio-Maxillo Facial and Orthopedic indications,
- Safe from disease transmission,
- Osteoconductive,
- Osteostimulative!

NovaBone Products, LLC 13709 Progress Blvd, #33 Alachua, FL 32615
Tel: 386.462.7660 Fax: 386.418.1636 www.novabone.com  www.perioglas.com
Bio-Oss® vs Bioglass®

The Data:
When Bio-Oss® was introduced into the market as a bone graft material for dental use, resorbability was one of the attributes that was promoted. As we are constantly asked about resorbability, this is clearly an important issue to the clinician.

Recently, a number of publications showing human histology of Bio-Oss® grafted sites have reported the persistence of Bio-Oss® particles in the graft site beyond three years. Both articles demonstrate with human biopsies that significant amounts of the bovine (cow) bone are still present in the grafted sites at long-term follow-up.

Bioglass® studies, both human and animal, have consistently shown that particulate Bioglass® (PerioGlas®, NovaBone®, and NovaBone-C/M®) is resorbed over a 6 to 18 month period of time. Within about 9 months the residual material is a natural hydroxy carbonate apatite that has formed in-situ by a biomimetic process. The published data shows that Bioglass® products (PerioGlas®, NovaBone®, and NovaBone-C/M®) ARE RESORBABLE.

In Summary:
- Bioglass® products, (PerioGlas®, NovaBone®, and NovaBone-C/M®) are completely synthetic, Bio-Oss® is of bovine (cow) origin.
- Bioglass® products are resorbable. Bio-Oss® remains in the defect for up to 5 years, based upon published data.
- Bioglass® products stimulate the proliferation and differentiation of osteoblasts.
- Bioglass® products have a 9 year history of use in the repair and regeneration of bony defects.
- Both materials are osteoconductive.

References:

It seems that one cannot have it both ways: either a material is resorbable, or it is not. The published evidence shows that while Bioglass® is resorbable, Bio-Oss® particles are hard hydroxyapatite, and remain in the site much longer than our Bioglass® products, PerioGlas®, NovaBone® and NovaBone-C/M®.