

OsteoPlug™

Biodegradable implant for Trephination burr

The OsteoPlug™ is made of a bioresorbable material and has a patented interconnected porous architecture. OsteoPlug™ possesses the following desirable properties;

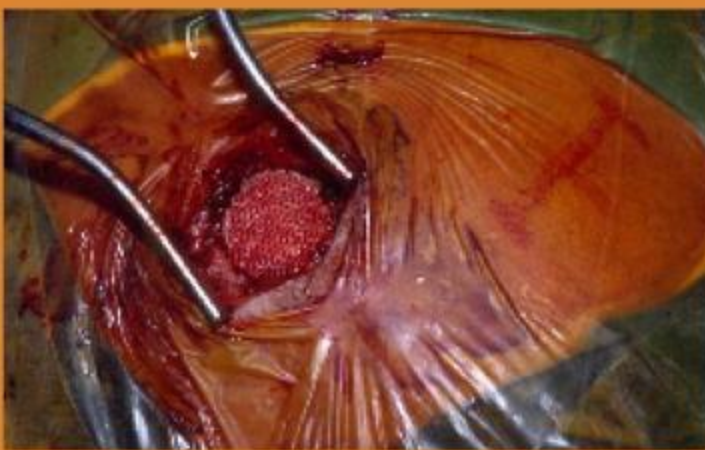
- Osteoconductive
- Slow biodegradation
- Patented snap-fit design
- Synthetic
- Biocompatible
- FDA approved



Indications

To aid closure of post-trephination burr hole defects by:

- Providing a biomimetic milieu for initial blood clot phase of wound healing
- Allowing rapid & homogeneous vascularisation
- Assisting in early and proper integration of the implant with native host bone & allowing for adequate delivery of nutrients to the invading precursor cells



Advantages

- Excellent long-term clinical results
- FDA-cleared for craniofacial indications
- Easy handling and application
- Mechanical properties close to human cancellous bone
- No foreign body reaction
- Safe
- Obviates the need for external fixation
- A plethora of sizes and shapes can be produced

Clinical results

- Used in more than 20 patients with outstanding results
- Beyond 3 years of follow-up shows excellent host-tissue compatibility with no infection.
- Aesthetically pleasing scar and a functionally stable cranioplasty
- No fluid collection detectable
- OsteoPlugs™ were well-integrated in the surrounding calvarial bone with new bone filling the porous space

Ref: Cranioplasty after trephination using a novel bio-degradable burr hole cover: Technical report. Neurosurgery 58 [ONS Suppl 1]: ONS-176, 2006

