

WHAT MATTERS MOST IN BONE GRAFTING?



India's 1st FDA Approved Orthopaedic Implant Manufacturing Facility



Biocompatible



Osteoconductive

- · Spinal Fusion
- · Vertebral Fracture



Non-Immunogenic

- · Bone Void Filler
- · Tibial Plateau Fracture
- · Distal Radial Fracture
- · Calcaneus Fracture



Surgeon's choice and our pride



Providing that matters in Bone Grafting



Biocompatible

Over 500 patients have received B-OstIN implantation with minimum 12 months follow-up and no adverse effects

- ~ 100% phase purity of B-OstIN with trace elements in limits
- ~ Confirmed by in vitro and in vivo studies
- ~ International publications on human use for Tibia Plateau and Craniotomy

Reference: K. V. Menon, H. K. Verma, Radiological outcome of Tibial Plateau treated with percutaneously introduced synthetic porous Hydroxyapatite granule, European Journal of Orthopaedic & Traumatology - Volume 15, August 2005, Page 205 - 213.







Follow up 6 months (well healed fracture)

still visible but bone granule boundary is indistinct

B-OstIN clinical study on Tibial Plateau Fracture

Osteoconductive

B-OstIN is MOST osteoconductive material which helps in bone bonding within 3 months, fastest of all ceramic constituents

- ~ Ca/P ratio similar to that of human bone
- ~ Crystalline structure and morphology similar to natural bone
- $\sim 60 70\%$ porosity with pore size 100 300 um



Open porosity 100X

Porosity Distribution graph

Non-Immunogenic

B-OstIN implant is surrounded by cellular infiltrate, which is predominantly fibroblastic

- ~ No lysis of red blood cells (RBC)
- ~ No cytotoxic effects on cells in contact with B-OstIN
- ~ No tissue necrosis
- ~ No toxic leachants post implantation of B-OstIN



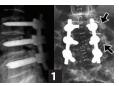


Intact RBC over B-OstIN after haemolysis test

No Cytotoxicty effect on contact with B-OstIN

Indications

- ~ Spinal Fusion*
- ~ Tibial Plateau Fracture
- ~ Vertebral Fracture*
- ~ Distal Radial Fracture
- ~ Bone Void Filler (Bone TB)
- ~ Calcaneus Fracture

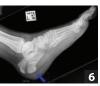












Mixing with autogeneous bone is recommended

Product Presentation

Granules 0.5mm to

B-OstIN[™]



B-OstIN TM Rod

Dia 8mm to 14mm



 $B\text{-}OstIN^{^{TM}}$ **Block**

5mm, 12mm and 20mm



All synthetic bone graft products have been developed with know - how from Sree Chitra Tirunal Institute for Medical Sciences and Technology, Thiruvananthapuram



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