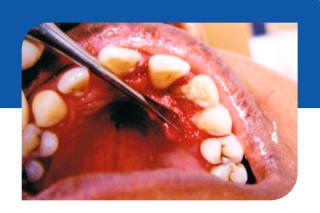
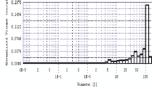
Synthetic Bio-compatible Dental Bonegraft





B-OstIN is a synthetic **bio-compatible** material composed of elements that occur naturally in the bone i.e. various forms of calcium phosphate. B-OstIN is made by wet chemical methods and thereafter converted into porous mass through ceramic processing routes. Similarity to the bone mineral makes B-OstIN bio-compatible and most Osteo conductive material.





Open porosity 100X

Porosity Distribution graph

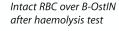
B-OstIN is most **osteoconductive** material which helps in bone bonding within 3 months, fastest of all ceramic constituents.

- ~ 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

B-OstIN implant is **non-immunogenic** and 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





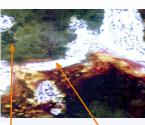


No Cytotoxicty effect on contact with B-OstIN

IN-VIVO ANIMAL STUDIES

Histological sections showing progressive bone formation in rabbit around B-OstIN Granules at various time periods.

Fig. 1:2 weeks



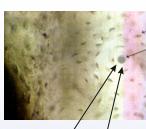
B-OstIN Grannuals

New Bone Trabeculae

Fig. 2:6 weeks



Fig. 3: 12 weeks



Osteocytes Haversian
Canal

Fig. 4: 24 weeks







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CLINICAL STUDIES



Fig. 4 : Graft placement into the defect.



Fig. 1 : Pre-operative view of the deep palatoradicular groove.



Fig. 2: Periapical lesion with advanced bony defect.



Fig. 3 : Palatoradicular groove extending upto the apex.

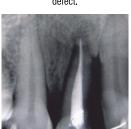


Fig. 5 : Post-operative radiograph after 3 months



Fig. 6 : Post-operative radiograph after 6 months.



Fig. 7: Post-operative radiograph after 18 months



Fig. 8 : Post-operative view of reduced pocket depth (mirror view image).

Indications for use:

- Filling and/or reconstruction of a traumatic or degenerative multi-walled bone defect
- · Augmentation of the sinus floor
- Augmentation of an atrophied alveolar ridge
- Filling of a periodontal or other alveolar bone defect, tooth sockets, and osteotomies
- Preservation of the alveolus for an implant osteotomy

Instruction for use:

- B-OstIN implants may be used with or without mixing with patient's own blood or bone marrow aspirate or saline solution
- B-OstIN implants should be placed in direct contact with the bone for bone growth
- B-OstIN Blocks can be trimmed to an appropriate size with sharp blade and shaped with a bone file to achieve a snug fit.
 It is suggested that the shaped surfaces be smooth and free from excessive loose particles before implantation
- Gap or cavity should be properly filled. Overfill should be avoided. Once B-OstIN is implanted, it is recommended not to use suction or any local washing / diluting material for fear of loss / migration of B-OstIN from the implanted site
- B-OstIN implant may be fixed, where ever practically possible, with periosteal sutures to decrease the risk of migration

PRODUCTS



O.5 - 1.0 mm

1.0 - 3.0 mm

Pack Sizes

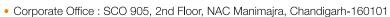
0.5 cc, 1 cc

1 cc, 3 cc, 5 cc



Blocks Dimensions
5 x 5 x 10 mm
12 x 12 x 10 mm
20 x 20 x 10 mm
10 x 10 x 35 mm
10 x 10 x 45 mm

Granules



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