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INJECTABLE BONE SUBSTITUTE with **CHITOSAN**

RAW MATERIALS

- Hydroxyapatite Biphasic Mixtures (HA+BTCP)

MEDICAL DEVICES

- 3D Bone Substitutes
- Injectable Bone Substitutes
- Bone Cement
- Wound Dressing

COATINGS

- Double Layer (Ti+HA)
- Triple Layer (Ti+Ti+HA)
- PVD
- Anodizing

Calcium Phosphate spherical-like granules in a Chitosan based Gel Matrix

k-IBS® is a injectable gel presented in pre-filled ready to use syringe

Specifications

Ready to use product Spherical-like granules sizes: 125 - 355µm Macro and micro porosity Easy application

Composition

Ceramic phase

75% Hydroxyapatite [Ca₁₀(PO₄)₁(OH)₂] and 25% beta-TriCalcium Phosphate [Ca₁(PO)₄]

Polymeric Matrix

Chitosan (C,H,,O,N),

Polyethylene Glycol (C,H,O),:H,O



Calcium Phosphate sperical-like granules

Use of granules enhances filling of bone cavities and cell adhesion and proliferation



k-IBS® has a better IMPLANT STABILITY

due to the polymeric chitosan matrix which also prevents ceramic particles migration

k-IBS® is EASY to APPLY

due to its pasty consistency, reducing surgery time



k-IBS® is a

BIOCOMPATIBLE

and

BIODEGRADABLE

bone substitute

CASE #1

61 years old female with peridontal disease affection tooth nr.27 and loss of implant, leading to tooth extraction

Surgical procedure

Extraction of tooth nr. 27. Implantation of 3 dental implants with sinus-lift technique.

k-IBS® bone sustitute implanted in contact with cancellous tissue for total defect filling.

Follow up

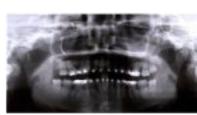
- After 2 months no complications were reported;
- After 6 months the total Post-operative CAT X-Ray substitution of the implant by new bone was reported. No complications were reported;
- During revision, after 1 year, no changes in the peri-implanted tisues were reported. The load was perfect and complete regeneration occurred. The patient is very satisfied with final results.

CASE #2

20 years old female with aggressive periodontitis and bruxism.

Surgical procedure

A mucoperiosteal flap was made, and the walls were smoothed. k-IBS® was placed in the most problematic areas and sutured with absorbable suture. Bone substitute



Pre-operative CAT X-Ray

Pre-operative CAT X-Ray

implanted in contact with cancellous bone.

Follow up

- After 2 months there was low implant resorption and the patient presented an excellent cicatrisation, without any complications
- After 6 months new bone formation was reported
- After 1 year the regeneration process was achieved due to the use of k-IBS®, allowing a dental support, functionality and aesthetic. The patient reported that does not feel pain in the facial muscles in the morning and does not have dental pain.