

# G-BONE CALCIUM PHOSPHATE CEMENT

## *d* DESCRIPTION

The non ceramic Hydroxyapatite bone material has two components Calcium phosphate powder and a setting liquid. The powder is made of tri calcium phosphate and tetra calcium phosphate. The fluid has different sodium and calcium salts. The two parts are mixed and putty like material is obtained. It can be used to fill the defects. Putty can be molded to any shape by hands. Being putty and easy mold ability provide very good contact with bony tissues, resulting to better healing. Being pure inorganic substance which is already present in our body, it does not have any possibility of allergic or sensitization reaction. The self setting calcium phosphate cement was developed in mid 1980s.

After mixing it is usable for 3-5 minutes. Adding some drops of water can prolong usability but it may disturb ultimate strength. The hardening process continue and ultimate hardening may take 12-24 hours.

The information, given below, is not exhaustive and is for guidance only. The surgeon is best advised to use the method, which his own practice and discretion dictate to be best for the patient.

## *i* INDICATIONS

G-Bone Cement is indicated in almost all the places where a bone graft is required. Following are some of the indicative uses specialty wise.

- Neurosurgery: Filling of burr holes, lumber & cervical Fusion, vertebral reconstruction, Cranioplasty, cavity filling and other kind of reconstructions.
- Orthopedic Surgery: Cavity filling, gap



filling, Lumber & cervical Fusion, vertebral reconstruction, osteotomy reconstructions and other places of reconstructions, non union fracture and filling the gaps in cases of bone loss due to trauma.

- Plastic Surgery: Maxillofacial reconstructions, bony augmentation, hand surgery & cavity filling.
- Dental Surgery: Maxillofacial reconstruction surgery, periodontics, orthodontics and other areas requiring a bone graft.
- Other Specialties: Where a bone graft is required.

## *c* CONTRAINDICATIONS

Presence of infection whether local or general, prohibits all kind of implantation procedures. Open wounds will not respond well with bone grafting surgeries.

Poor general health and metabolic deficiencies will not produce desired results.

Above mentioned contraindications are general. The surgeon must evaluate the individual patient for the risks involved.

## *m* METHOD OF USE

- After opening the site of implantation, obtain good hemostasis of the area.
- Scrap the walls of the cavity/defect. Remove all soft tissue from the cavity or defect.
- Open packets.
- Load the fluid in syringe.
- Empty sachet on the dish provided.
- Mix the fluid from syringe with the powder. Keep on mixing two with fingers. Compress it to form putty. Immediately use it to fill gap.

be all free from disease & sufferings

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- Ensure that the putty is in direct contact with bony tissues.
- There is no intervening soft tissue serous collection etc.
- It should not take more than five minutes from mixing to final filling.
- The area may be covered with hot sponge (50°C) for 20 minutes.
- Close the area with due care to avoid any collection of fluid.

G-Bone CPC implantation is an implantation procedure. It carries a greater risk of infection because of large surface area. It is advisable to take all precautions necessary for an implantation procedure. Some of the points are given below:

- a. It should be first procedure in the morning.
- b. There should be minimum number of people inside the theatre (4persons). No scrub nurse
- c. There should be minimum movement inside OT.
- d. Procedure should be as fast as possible 20-50 minutes.
- e. Use disposable mops only ( it is a must)
- f. Use disposable drapes.
- g. Use incise drapes on incision sites.
- h. Only 2-4 procedures in a day.
- i. The grafting material should be opened only just before implantation.
- j. Minimum handling of graft material.
- k. Use skin staplers for skin closure.

## C COMPLICATIONS

Complications which may result from the use of this product include the risks associated with the



medication and methods utilized in the surgical procedure, as well as patients response, reaction or degree of intolerance to any foreign object implanted into the body.

Some of the major hazards / complications are infection, extrusion of grafted material, serous discharge, serous collection, hemorrhage, skin erosion and migration.

### G-Bone CPC

2 gm packing	GBCEM1
5 gm packing	GBCEM2

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