

NOVABONE®

Putty - CMF

Bioactive Synthetic Graft

Greffon synthétique Bioactif

Bioaktive synthetische Transplantate

Injerto sintético bioactivo

Innesto sintetico bio-attivo

Enxerto sintético bioativo

Bioaktiv Synthetisch Transplantata

Bioaktiv Sintetik Greft

Bioενέργος σύνθετικο πόσχευα

Bioaktivní syntetický štěp

800007 Rev. 003

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Bioactive Synthetic Graft

Instructions For Use

Indications for Use:

The intended use of Novabone Putty - CMF is to provide a safe, biocompatible, synthetic bone graft material for use in oral/dental/intracosseous, and craniodental defects. It is used orally in a manner comparable to autogenous bone grafts or allograft bone particulate (Demineralized Freeze Dried Bone).

Periodontal/bone defects:

- Ridge Augmentation (sinusectomy, osteotomy, ectomby)
- Exradics (ridge maintenance/grafting, implant preparation/placement)
- Sinus lift
- Cranial augmentation

For larger defects, a mixture of Novabone Putty - CMF with an equal volume of allograft autograft bone and marrow may improve new bone formation.

Description: Novabone Putty - CMF is an osteoconductive bioceramic device used for alloplastic bone grafting of osseous defects. It is a pre-mixed composite of biodegradable collagen/silicate particles and a synthetic, absorbable binder. The bioactive particulate is composed solely of elements that exist naturally in normal bone (Ca, P, Na, O). The absorbable binder is a combination of polyethylene glycol and glycerine. The device requires no mixing or rehydrating prior to use. It is supplied in a sterile tray ready-to-use, to be applied directly to the intended defect. The device is absorbed from the tray so that only the bioactive particulate remains.

Upon absorption of the binder, the remaining particulate material undergoes a time-dependent kinetic modification of the surface that occurs in living tissue, resulting in gradual particle absorption with time. Specifically, a series of reactions in the surface absorption of the particulate material occur sequentially over time. The first reaction is the absorption of the binder, followed by the absorption of the polyethylene glycol and glycerine. The product is then again melted by precipitation and absorption.

Novabone Putty - CMF is partially degradable, which enables the device to immediately, as well as long-term, post-operative evaluation. Post-operative results are easily assessed. Use of Novabone Putty - CMF allows for early identification of any potential complications.

Contraindications: Novabone Putty - CMF should not be used in patients who:

1. Use immunosuppressive agents or medications known to affect the skeleton (e.g. chronic glucocorticoid usage >10mg/day for the previous 3 months, Enzyme replacement therapy is allowed).
2. Need immunosuppressive therapy due to a history of organ transplantation or a patient undergoing dialysis.
3. Have a systemic metabolic disorder that would interfere with bone healing or bone healing and mineralization (e.g. poorly controlled insulin dependent diabetes, renal osteodystrophy, Paget's disease), or any other condition that would interfere with bone healing.
4. Have had, or are undergoing radiation treatment of the cranium.

In addition, the prognosis of periodontal abscesses must be considered responsible if the patient has a history of periodontitis, endodontic/pulpal problems, or if the patient on a steroid regimen that causes bone destruction, or where molar teeth are treated.

Instructions for Use:

Novabone Putty - CMF should be exposed to the surgical site. Once exposed, initiate all granulation or necrolectotic at the defect site. Irrigate the defect with sterile saline or water and evaluate the excess.

Advice: Intraoperative granulation is preferred to ensure some bleeding from the host bone, which provides a supply of osteogenic material to aid in regeneration.

Novabone Putty - CMF requires special handling or mixing procedures prior to use. All device packaging should be inspected prior to use to insure manufacturer's date.

1. Remove the double packaged device from the outer box.

2. After its preparation, open the outer pouch using standard technique and pass the inner container to the sterile field.

3. Hold the inner container in one hand and pull on the tie.

4. Remove the Novabone Putty - CMF from the inner container either manually or with forceps/smart instrument.

- a. If autograft/alloplastic site is to be used, ensure that it has fully hydrated prior to removing with an approximately equal to the Novabone Putty - CMF. Use Novabone Putty - CMF as directed.
- b. If the recipient site is to be used, ensure that the Novabone Putty - CMF with the bone particles. The mixer should be used to mix the Novabone Putty - CMF with the bone particles. The mixer should be used to mix the Novabone Putty - CMF with the bone particles.
- c. Novabone Putty - CMF can remove any material and do so as per standard practice. As the case with any particulate graft procedure, primary closure of the surgical site is essential.

5. Irrigate and scrub the site, then gently fill the defect to the highest level of the gingival fold, meeting the desired contours.

6. After placement of Novabone Putty - CMF, remove any material and do so as per standard practice. As the case with any particulate graft procedure, primary closure of the surgical site is essential.

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