

About us

Osteopore International is a Singapore based corporation strategically poised to be a leading medical device company in this region. We are involved in designing, developing and marketing bioresorbable polymer implants for neurosurgical, orthopedic and maxillofacial surgery use.

Our mark of excellence

Osteopore's commitment is to provide excellent product and services that exceed the standard of simply meeting the customer's expectations or complying with various regulations or specifications.

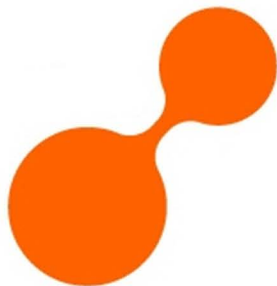
Regulatory Approvals

Our products have obtained various regulatory approvals including FDA 510(k) (US), KFDA (Korea), CDSCO (India) and HSA (Singapore).

Certifications obtained



Restoring Tissue to Normality



Osteopore™

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Caution: Always refer to the package insert, product label, and/or user instructions before using any Osteopore product. The information presented in this brochure is intended only to demonstrate an Osteopore product. Products may not be available in all markets. Product availability is subject to the regulatory or medical practices that govern individual markets. This device can only be used upon prescription by a surgeon.

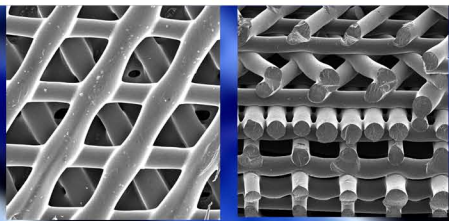
Rev 1 0711

Customized Scaffolds

Customized biodegradable implants for craniofacial reconstruction



Customization made easy!



Osteopore™ Scaffolds

Protected by patent #: PCT WO/2005/04885 A1 and US 6.730.252 B1

SPECIFICATIONS

- Porosities: 40% - 85%
- Pore size: 250 - 1600µm
- Thickness: 0.5 - 30mm

PROPERTIES

- Mechanoinduction
- Osteoconductive
- Slow biodegradation
- Biocompatible
- Obviates the need for external fixation
- A plethora of shapes and sizes
- Excellent long term clinical results
- Mechanical properties close to human cancellous bone

INDICATIONS

To aid closure of craniofacial defects by:

- Providing a biomimetic milieu for initial blood clot phase of wound healing

- Allowing rapid & homogeneous vascularisation
- Assisting in early and proper integration of the implant with native host bone & allowing for adequate delivery of nutrients to the invading precursor cells

BENEFITS

- Structural stability at defect site
- Complete bone regeneration will occur at defect site upon scaffold degradation.
- Operating time can be reduced
- Scaffolds can be shaped easily on site for a better fit.

CLINICAL RESULTS (cranial)

Ref: F.A. Probst et al. Calvarial reconstruction by computer-aided design of bioactive scaffolds Handchir Mikrochir Plast Chir. 2010 Mar 10

Patient specific customized scaffolds are designed and manufactured from their CT files.

CT image



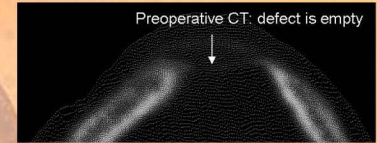
PCL-TCP scaffold



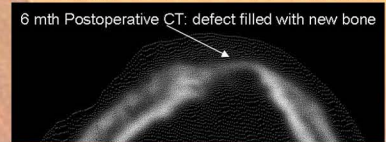
Actual Defect site



Scaffold implantation



Preoperative CT: defect is empty



6 mth Postoperative CT: defect filled with new bone

CLINICAL RESULTS (mandible)

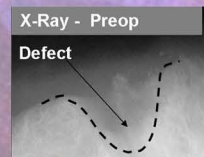
Ref: KH Schuckert et al Mandibular defect reconstruction using 3D PCL scaffold in combination with PRP and rhBMP-2: De novo synthesis of bone in a single case, Tissue Engineering, Part A, 15 (2009):493-499



PCL scaffold

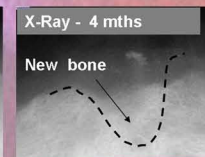


PCL scaffold + BMP + PRP in situ



X-Ray - Preop

Defect



X-Ray - 4 mths

New bone