



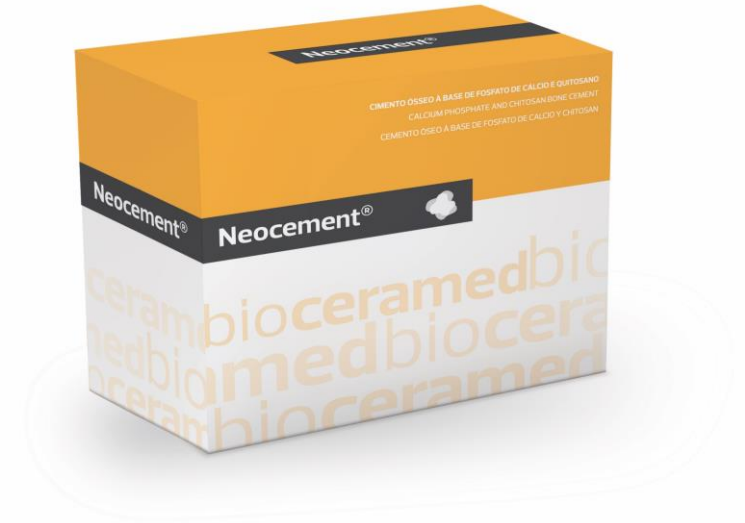
bioceramed

biomaterials for tissue regeneration

www.bioceramed.com
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Chitosan and calcium phosphate based cement

- Hydroxyapatite Cement with Chitosan
- Compressive strength > 4MPa
- Cement sets with **isothermal temperature** (without tissue necrosis)
- Can be molded into desired shape and **applied directly** in the voids or gaps
- Reported resorption: 6 months to 1 year



Is intended for use in filling bony voids or gaps of the skeletal system that are not intrinsic to the stability of the bony structure.

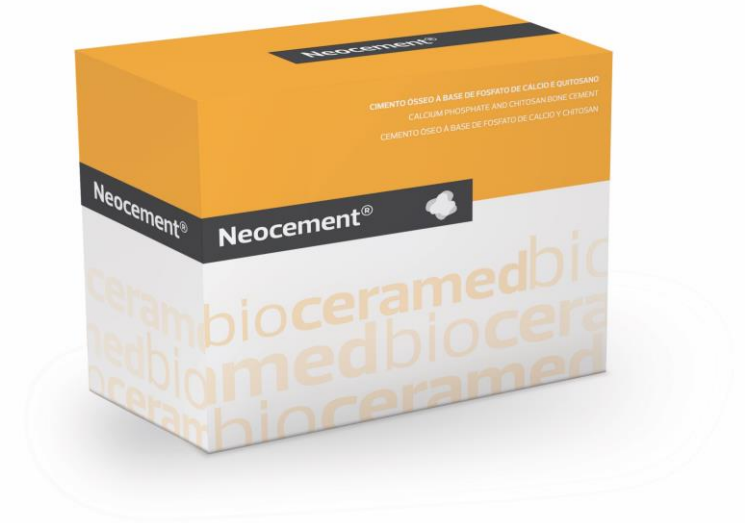
Orthopedic/Trauma	Craniofacial
Pseudoarthrosis	Skull Fracture
Bone cyst	Cranioplasty
Extremities fractures	Cranial Defects

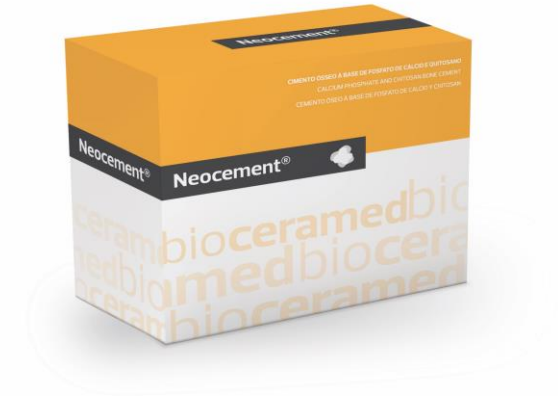
Neocement®

Chitosan and calcium phosphate based cement

Neocement® has been used by different physicians and for filling bone voids in various clinical contexts:



- Calcaneus fractures;
- Tibial fractures;
- Pseudoarthrosis;
- Knee arthrosis;
- Skull Fracture;
- Peroneus Fracture;
- Distal Radius Fracture;
- Post-traumatic Arthropathy;
- Arachnoidal Cyst.





Chitosan and calcium phosphate based cement




Clinical Case #1

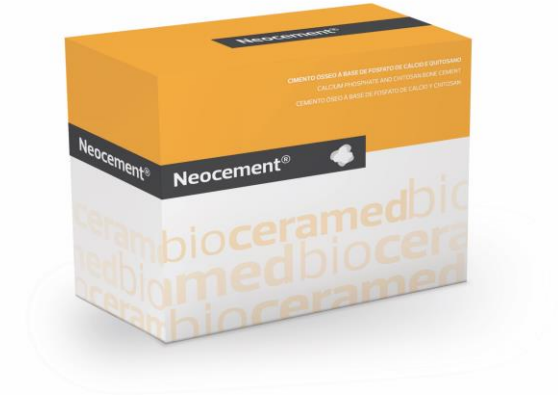
Patient information:	Follow-up immediately after surgery	Follow-up 1-2 months after surgery	Follow-up 4-6 months after surgery	Follow-up ≥ 1 year after surgery
<p>Female</p> <p>Left calcaneus fracture</p> <p>Surgical procedure: Open reduction and plate fixation. Bone substitute implanted in contact with cancellous tissue.</p>		<ul style="list-style-type: none"> - Implant radiopacity confirmed. - Low implant resorption reported. - No migration of the bone substitution reported. - No loss of contact with native bone. 	<p>The patient initiated partial load. The Neocement® avoided the collapse of the articular surface and improved the osteosynthesis stability.</p>	<p>Functional results such as walking without pain and articular mobility were reported. No frontier between the Neocement® and the bone tissue was found. The new bone formation is clear.</p> 



Chitosan and calcium phosphate based cement

Clinical Case #2

Patient information:	Follow-up immediately after surgery	Follow-up 1-2 months after surgery	Follow-up 4-6 months after surgery	Follow-up ≥ 1 year after surgery
<p>Male</p> <p>Crushing tibial plateau fracture</p> <p>Surgical procedure: Fracture reduction and osteosynthesis with cannulated bone screw and washer. External meniscus suture.</p>		<ul style="list-style-type: none"> - Implant radiopacity confirmed. - Low implant resorption reported. 	<ul style="list-style-type: none"> - New bone formation was reported. - Patient was submitted to another surgery to remove the osteosynthesis material. 	<ul style="list-style-type: none"> - Very good progresses. BA: 0°, 125°. - Stable knee with good mobility and adequate muscular power. - It was observed a significant growth of new bone and fracture consolidation.



Chitosan and calcium phosphate based cement

Clinical Case #3

Patient information:	Follow-up immediately after surgery	Follow-up 1-2 months after surgery	Follow-up 4-6 months after surgery	Follow-up ≥ 1 year after surgery
<p>Female</p> <p>Left distal radius fracture</p> <p>Surgical procedure: Internal fixation with AO Support T Plate. Fracture filling with Neocement.</p>	<ul style="list-style-type: none"> - No complications reported. - Relevant Information: Wrist immobilization during the immediate postoperative period using dorsal forearm splint, to accelerate the recovery of the soft tissues. 	<ul style="list-style-type: none"> - Implant radiopacity confirmed. - No information of new bone formation was reported. - Relevant information: Stable subchondral fixation and start the early active mobilization of the wrist. 	<ul style="list-style-type: none"> - New bone formation was reported. - No complications reported. - Greater range of flexion and extension and greater grip strength. - Good pronosupination. 	<ul style="list-style-type: none"> - Significant implant resorption reported. - Radial and palmar inclination correction. - Fracture consolidation with good osseous regeneration, allowing the patient to have a normal life.



Neocement Inject®

Chitosan and calcium phosphate injectable based cement

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Orthopedic/Trauma

Subchondroplasty

Filling bone defects

Extremities fractures

Fracture reduction





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