Spine Surgery

Product Line

When Innovation Meets Performance
At the core of all our products:
Our proprietary MBCP™ Technology

Over 650 published studies, 30 years of clinical experience

Clinically validated in over 650 peer-reviewed studies and with over 1,000,000 patients treated, MBCP™ has been the scaffold of choice in bone reconstruction for over 20 years. Made of a combination of hydroxyapatite and tricalcium phosphate, Biomatlante’s biphasic bone scaffolds are constantly evolving to meet new challenges stemming from tissue engineering where surgeons need to combine scaffolds with either biological fluids or active agents in order to treat particularly challenging patients.

Biomatlante is an active participant in numerous research programs seeking to improve outcomes for particularly challenging patients.

The performance of MBCP™ is characterized by:
• Clinical efficacy equivalent to that of autologous bone graft;
• Less complications than autologous grafts;
• No donor site pain and infections;
• Biocompatible.1


High Specific Surface Area (SSA) for maximum permeability

Biomatlante’s unique 3-step manufacturing process creates a micro-macroporous structure of biphasic calcium phosphate ceramics, making them osteomimetic, enabling MBCP™ to exhibit highly osteogenic properties for filling large bone defects.

**Sector:** Spine  
**Indication:** Posterolateral fusion  
**Study Type:** Clinical study  
**Number of Patients:** 58  
**Product:** MBCP™ Sticks  
**Analysis:** These results confirm the benefits of using calcium phosphate ceramics as bone graft substitutes for posterior spinal fusion in teenagers and young adults.

Spine Surgery Line

For over 20 years, our single purpose has been to bring to market state of the art solutions for regenerative surgery. Backed by extensive clinical evidence, our innovative Spine Surgery Line is simply unique. Join us into the new era, When Innovation Meets Performance.

Interbody fusion

- In’Oss™ Cervical Cages
- MBCP™ Inserts Cervical & Lumbar cages
- MBCP™ Gel Trabecular cages

Posterolateral fusion

- MBCP™ Sticks
- MBCP™ Syringe
In’Oss™ Line of Moldable Synthetic Bone Graft

Developed to facilitate handling during bone grafting procedures, In’Oss™ can fit into any grafting site. With its small diameter syringe and easy to use delivery system.

MBCP Gel™ Injectable Synthetic Bone Graft

MBCP™ Gel is an injectable bone graft hydrogel used to regenerate and fill bone gaps, with or without interbody devices. (ex: a cyst or in conjunction with a trabecular cage). It offers an optimal balance between fluidity (helps to fill bone defects or devices) and viscosity (minimal washout).

MBCP™ Gel can flow through a 16 gauge needle.

Product Benefits

- Ready to use
- Resorbable
- Volume stability
- Excellent handling characteristics
- Moldable
- 100% synthetic
- Injectable
- Fast Bone Ingrowth
INTERBODY FUSION

MBCP™ Inserts  Interbody cervical and lumbar fusion

Pioneer in Biphasic Calcium Phosphate Solutions, especially in custom inserts for spinal cages, Biomatlante has been the Partner of choice for major spinal companies worldwide for over 20 years. MBCP™ Custom Inserts have been designed specifically for interbody cages, they intrinsically fit perfectly, with multiple design options to compensate for additional screws and plates.

Biomatlante has worked with it most of the leading cage manufacturers to design, develop and machine custom inserts to perfectly fit their cages. Depending on the manufacturer’s strategy, they can be available already pre-fitted inside the cage or come in a separate sterile package.

Biomatlante’s unique 3-step manufacturing process creates a micro-macroporous structure of biphasic calcium phosphate ceramics, making them osteomimetic, enabling MBCP™ to exhibit highly osteogenic properties for filling large bone defects.

Product Benefits

- Resorbable
- Quicker procedure
- Easy handling
- Make your cages stand out, unique cage and bespoke insert
MBCP™ Syringe

MBCP™ Syringe is commonly used in challenging cases where the bioactivity of the biomaterial should be further boosted by either biological fluids or active agents.

The biomaterial comes pre-packaged in a convenient syringe designed specifically with convenience in mind:

1. Connect the syringe containing the aspirate or agent to the luer lock of MBCP™ Syringe and inject the fluid

2. Remove the cap of MBCP™ Syringe and easily extrude the material by pushing the plunger.

MBCP™ Sticks

MBCP™ Sticks have been shown to be effective in lumbar posterior fusion.

MBCP™ sticks are mostly used in association with autograft for posterolateral graft.

High Quality Bone Graft

Global interconnected porosity of 70%:
- 2/3 of macropores (>10µm)
- 1/3 of micropores (<10µm), due to a unique know-how

100% Synthetic:
- 60% HA (Hydroxyapatite)
- 40% β-TCP (Tricalcium Phosphate Beta)
About Biomatlante

Based near Nantes, France, Biomatlante specializes in synthetic biomaterials for bone regeneration and has been a world leader in bone graft technologies for over 20 years, selling its products in over 50 countries. Biomatlante’s products are routinely used in orthopedics and trauma surgery, in spine and dental surgery. Biomatlante strives to integrate a strategy of strong innovation and product development required to meet and exceed the needs of today’s market. Biomatlante’s R&D team has close ties with universities and research centers across the world, guaranteeing it remains at the cutting edge of innovation and providing the intellectual protection necessary to foster long-term projects.

Bibliography

MBCP™ Technology


In’Oss™


In’t Oss™ and MBCP™ are trademarks of Biomatlante, SA.

MBCP™ Gel


Notes

- Read instructions for use for a complete list of warnings, precautions, possible adverse events and other important medical information.
- Not all products are registered or available in every country/region. Please check with Biomatlante representative for availability and further information.

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