CRITERIA

BIOMATERIAIS

THE BIGGEST LATIN AMERICA'S FACTORY

A **CRITERIA Biomateriais** is a company that is proud to be completely Brazilian. Our foundation is the investment in technology and in national talent, aiming at the continuous improvement of our products to offer the best solutions to patients.

Created in 2006, the company has already opened its doors with strong market knowledge and a history of more than 30 years of research in this segment.

“We realized the need to supply affordable technology to a market that is dominated by imported products and high prices, which are different from the reality experienced here”, say the directors.

With a focus on nationalizing all the innovations and updates that arise in the area of tissue regeneration, we make such technologies accessible to a greater number of Brazilian professionals.

A **CRITERIA** accounts for an annual growth of 30% since its foundation. Today, it is the market leader in Latin America with a focus on expansion to the rest of the world, taking the name of Brazil as a reference in biomaterials technology.

Lumina Bone

LUMINA-BONE is a product obtained from the natural raw material of bovine bone structure, proven to be controlled and traced from birth to slaughter, meeting the requirements of the Ministry of Agriculture.

As a mineral compound of calcium and phosphorus, LUMINA-BONE is extremely similar to the mineral bone tissue of the human body, being fully biocompatible.

It acts as a stimulator for new bone formation, has an osteoconductive structure and keeps osteogenic cells alive.

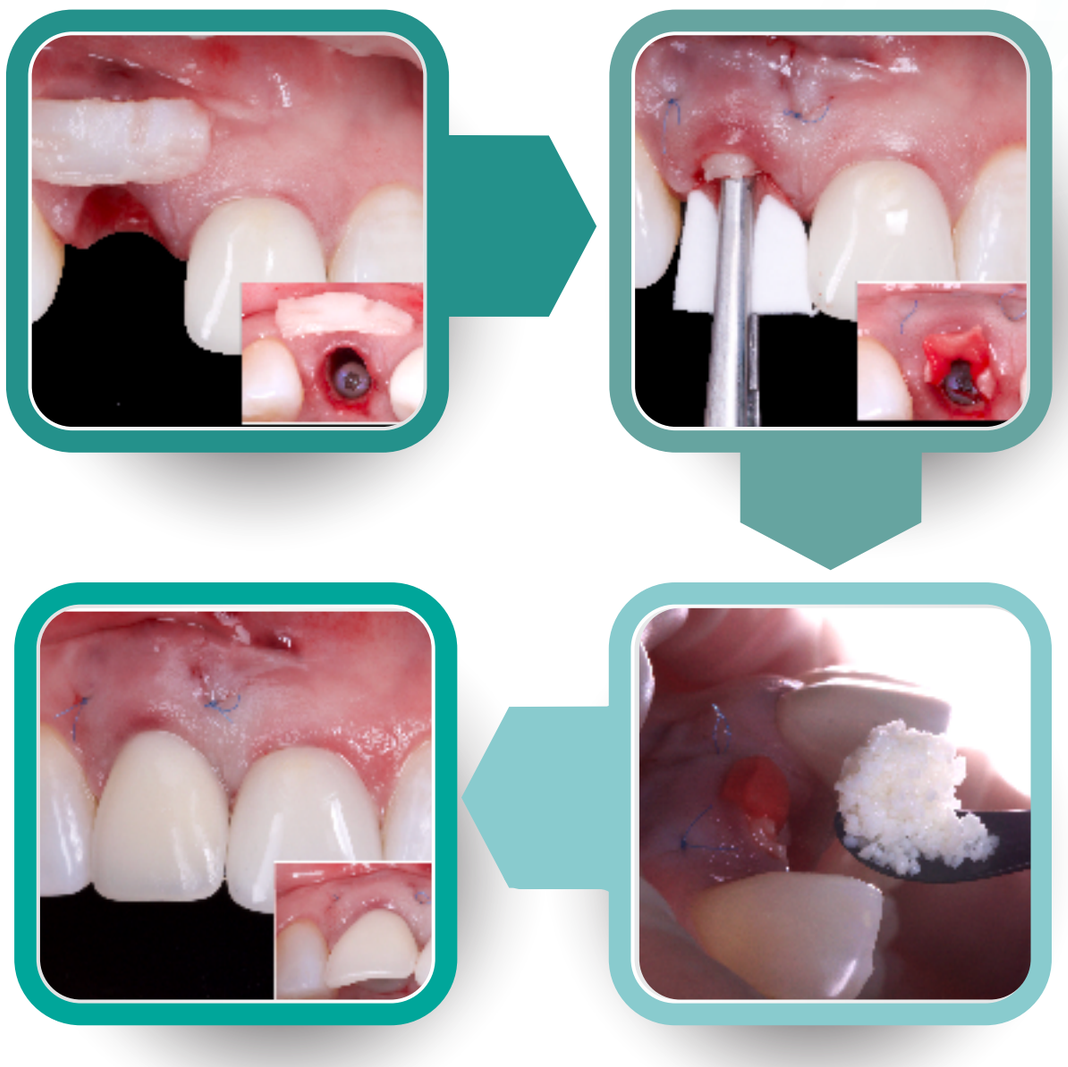
LUMINA-BONE is absorbed by the organism in a relatively slower period, indicated for surgical filling procedures and volume gain.

INDICATIONS

- Surgical filling with the purpose of maintaining bone volume;
- Volume corrections of the buccal bone walls, with aesthetic purposes resulting from frenestrations or peri-implant bone dehiscence;
- Volume corrections for aesthetic purposes in areas of prosthetic pontics.

With hydrophilic capacity, LUMINA-BONE provides ease of handling when mixed with the patient's blood and/or saline before application. Its pH corresponds to physiological levels mentioned in the literature, which is very important during the initial implantation phases.

It is a product aimed at all filling techniques, being an excellent resource for preserving post-extraction alveolus and filling the gap between the implant and the buccal wall in a safe, simple and economical way.



Clinical case images by: Dr. Tárcio Skiba
Using Lumina-Bone Medium and Lumina Coat
(Complete clinical case on our website)

LUMINA-BONE 0,5g

Fine Granules: 300 a 425 µm

Medium granules: 425 a 600 µm

Coarse Granules: 600 a 850 µm

FILL
Indicated for all filling and gain cases of aesthetic volume.

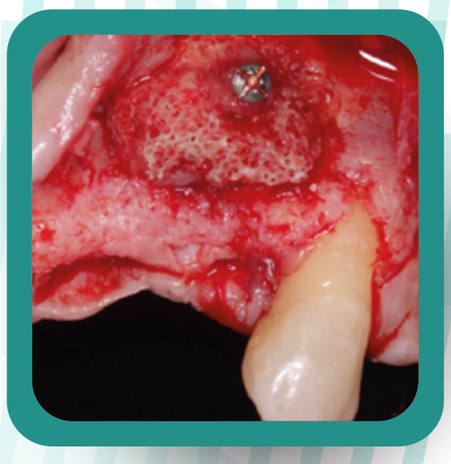
BETTER ADAPTATION
Contributes to the formation of blood vessels.

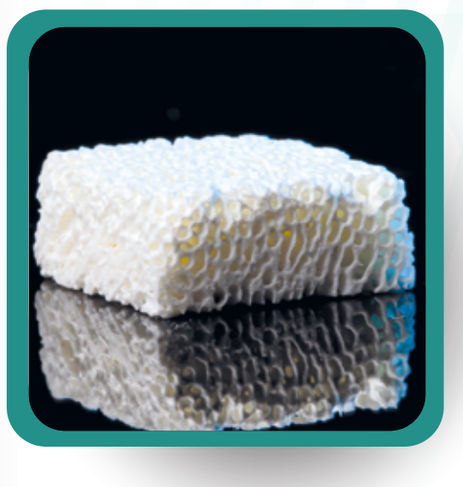
DIFFERENT PRESENTATIONS
Available in three different grains, block or cylinder.

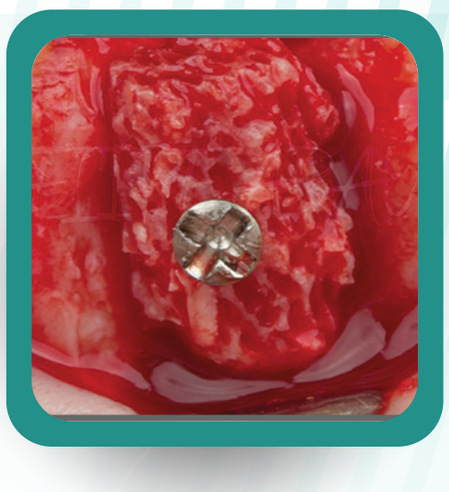
Lumina Bone

Lumina-Bone Bloco

Block dimensions: 5x10x10mm





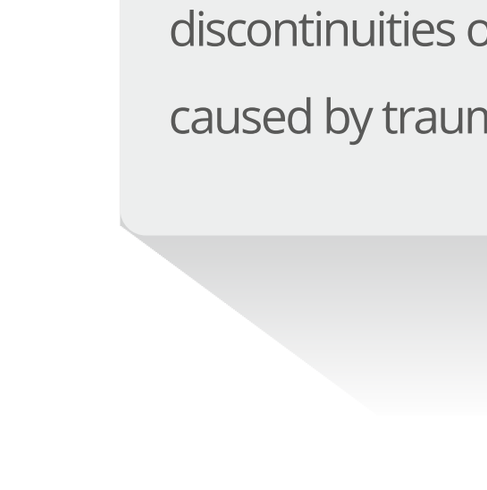


INDICATIONS

- Associated with thick bone regeneration membranes and barriers in the maxilla and mandible;
- Volume corrections for aesthetic purposes resulting from advanced mandibular bone defects;
- Filling of spaces or gaps in orthognathic surgeries;
- Corrections of maxillofacial bone discontinuities of pathological origin or caused by trauma.

Lumina-Bone Cilindro

Cylinder Dimensions: 3x8mm



INDICATIONS

- Alveolar filling in avulsions, extractions and rhysectomies;
- Filling of bone cavities;
- Small volume corrections for aesthetic purposes;
- Post-extraction alveolar filling.

Lumina Coat

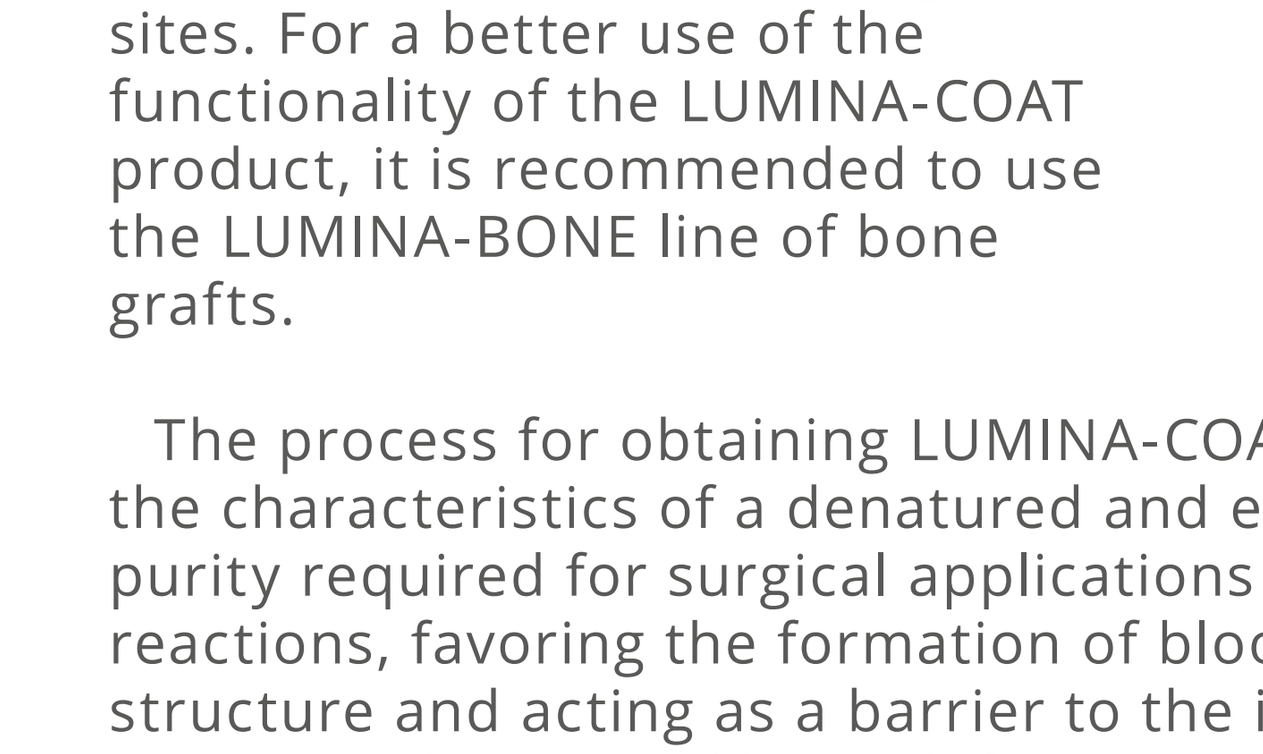
LUMINA-COAT is a natural organic membrane derived from demineralized bovine bone structure, basically composed of type I collagen, biocompatible and sterile for use in medicine and dentistry, whose purpose of clinical application is to serve as a barrier in orthopedic bone grafting surgeries and/or dentistry in which tissue regeneration is required from anomalies and/or loss of bone and/or connective tissue.

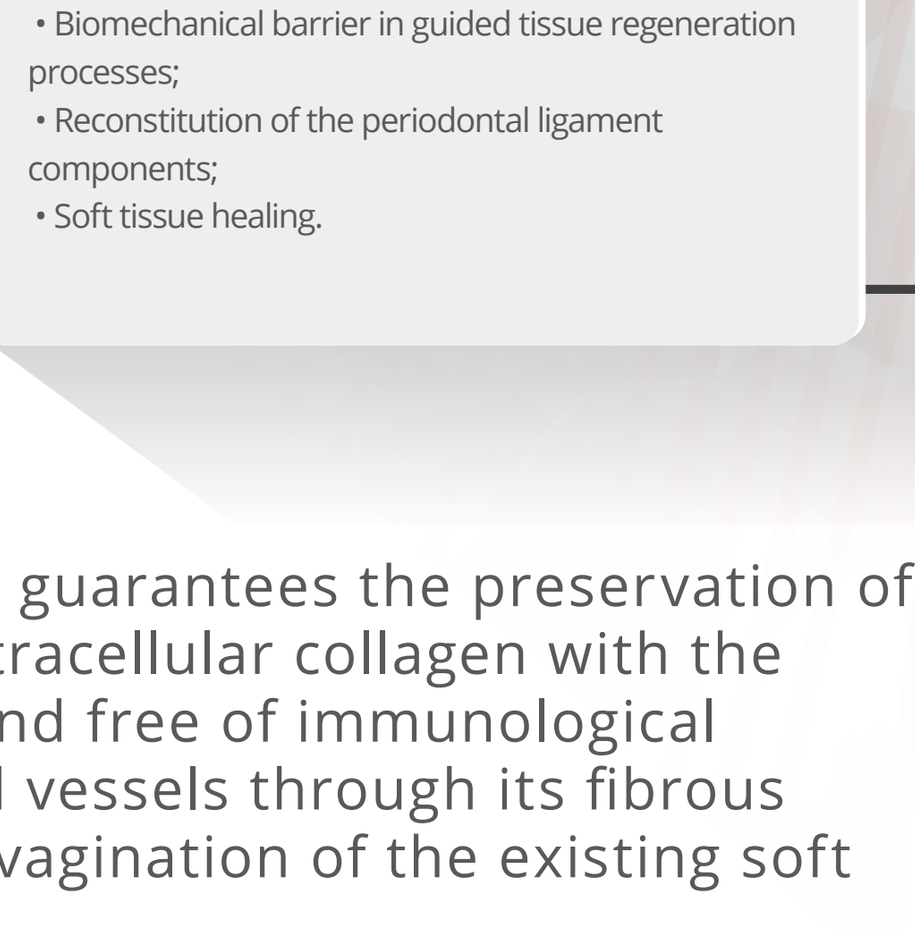
Allows the exchange of fluids and absorption by the body, also contributing to the protection of new bone tissue, formed in grafted sites. For a better use of the functionality of the LUMINA-COAT product, it is recommended to use the LUMINA-BONE line of bone grafts.

INDICATIONS

- Covering of bone defects;
- Protection of bone defect sites;
- Protection of exposed root furcation;
- Periodontal intraosseous lesions;
- Periapical lesions;
- Coverage of bone defect volume and complementation of mineral grafts, avoiding soft tissue invagination at the site until proper bone regeneration;
- Source of collagen type I for the metabolic process and tissue regeneration, in addition to osteoconductive properties;
- Small volume corrections for aesthetic purposes;
- Small corrections resulting from fenestration or periodontal and peri-implant bone dehiscence;
- Biomechanical barrier in guided tissue regeneration processes;
- Reconstitution of the periodontal ligament components;
- Soft tissue healing.

The process for obtaining LUMINA-COAT guarantees the preservation of the characteristics of a denatured and extracellular collagen with the purity required for surgical applications and free of immunological reactions, favoring the formation of blood vessels through its fibrous structure and acting as a barrier to the invagination of the existing soft tissues at the sites of bone defects.





Clinical case images by: Dr. Tárcio Skiba
Use of Lumina Coat Double in palate wound protection
(Complete clinical case on our website)

LUMINA-COAT

Lumina-**Coat**: 1x20x30mm e 1x10x20mm

(Absorption period approximately 4 to 6 weeks)

Lumina-**Coat Double**: 2x20x30mm e 2x10x20mm
(Absorption period approximately 6 to 8 weeks,
in some cases up to 10 weeks)

LUMINA-COAT DOUBLE is a non-crosslinked bovine collagen membrane free of chemical residues, LUMINA-COAT DOUBLE is distinguished by the slow degradation period and by allowing a high level of nutrition in the grafted area.

LUMINA-COAT DOUBLE adapts anatomically to the applied region due to its malleability and high hydrophilic capacity, facilitating and optimizing the surgical procedure

Lumina Bone Porous

VERY HIGH POROSITY AND TOTAL RESEMBLANCE TO HUMAN BONE TISSUE

LUMINA-BONE POROUS has total similarity to human bone tissue and very high porosity, which induces the proliferation of blood vessels (angiogenesis) and the migration of bone cells.

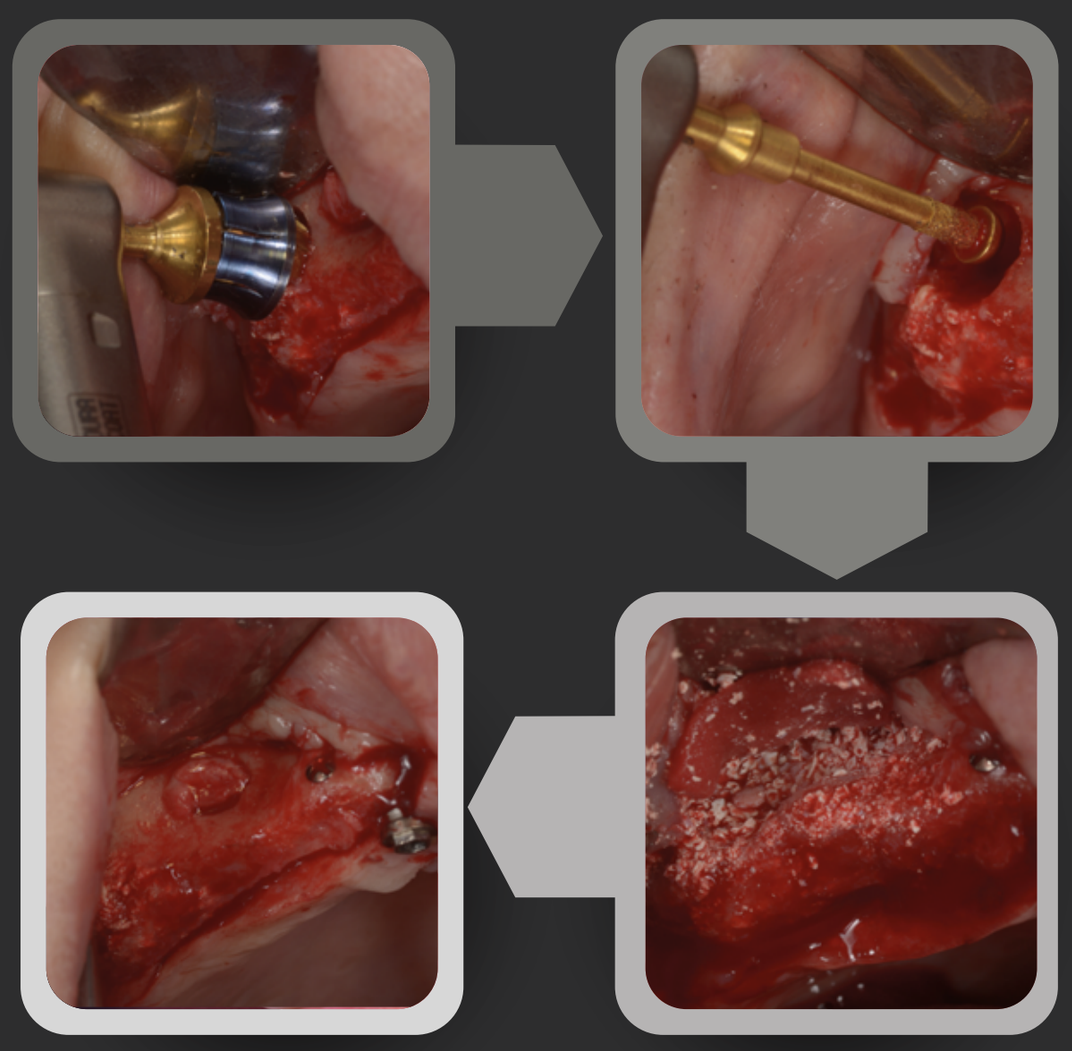
The similarity with human bone tissue allows osteopromotion to be performed in the most natural way. The manufacturing process of **LUMINA-BONE POROUS** is innovative. The elimination of bovine bone proteins by chemical means, free from thermal processing, completely preserves the desirable components of bovine bone tissue and the very low level of crystallinity.

LUMINA-BONE POROUS has high porosity and granules with dimensions between 300 to 2000µm. The high access of the clot to the internal surfaces of the granules promotes considerable stabilization and favors the absorption of endogenous proteins and growth factors.

INDICATIONS

LUMINA-BONE POROUS is indicated as an adjunct to bone regeneration and repair in medical-dental surgical procedures, such as:

- Post-extraction alveolar filling for the formation of blood vessels;
- Periodontal intraosseous lesions;
- Injuries resulting from pathologies;
- Surgeries of bone grafts in the maxillary sinuses;
- Guided bone regeneration associated with membranes for bone thickness gain;
- Volume corrections for aesthetic purposes resulting from fenestration or periodontal and peri-implant bone dehiscence.



Clinical case images by: Dr. Mario Escobar
Maxillary sinus lift with Lumina-Bone Porous Large
(Complete clinical case on our website)

LUMINA-BONE POROUS

SMALL Granules: 300 a 1000 µm
Fills approximately 1,0g (2,0cc)

LARGE granules : 1000 a 2000 µm
Fills approximately 1,0g (4,0cc)

Lumina PTFE

THE SAFETY AND PREDICTABILITY OF D-PTFE

Developed for cases where there will be exposure to the oral environment, LUMINA-PTFE is a regenerative barrier basically composed of dense polytetrafluoroethylene (d-PTFE), biocompatible and sterile.

Its clinical application purpose is to serve as a non-absorbable barrier in bone grafting surgeries, where regeneration of bone and connective tissue is required, avoiding any type of communication with the external environment.

LUMINA-PTFE presents excellent results when used according to its indications. It has no porosity on its surface and, due to this exclusive feature, LUMINA-PTFE allows its exposure to the oral environment without covering it with soft tissues.

LUMINA-PTFE can be molded gradually to the desired shape and has no memory.

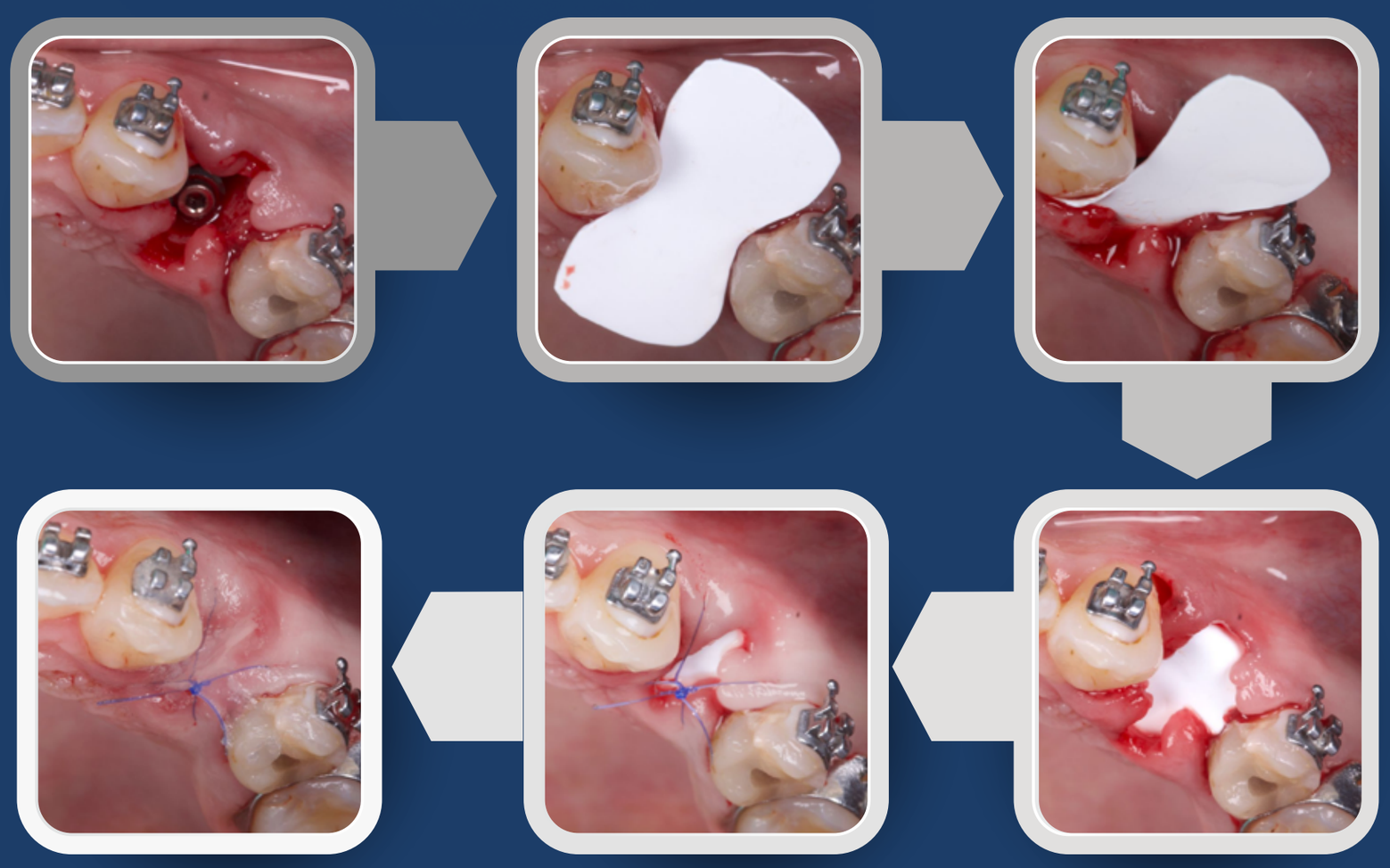
LUMINA-PTFE can be exposed for a maximum period of 28 days.

INDICATIONS

- Post-extraction application aimed at recovering and preserving the alveolar ridge;
- Protection of grafted areas;
- Aid in the integration of periodontal tissue components;
- Barrier to soft tissue invagination;
- Treatment of periodontal defects;
- Covering of bone defects

LUMINA PTFE

0,1X20X30mm



Clinical case images by: Dr. Tárcio Skiba
Using Lumina PTFE in alveolar preservation
(Complete clinical case on our website)

Lumina PTFE *Titanium*

A **LUMINA PTFE TITANIUM** is the first of its kind manufactured in Brazil! Its innovative technology was developed by Criteria to raise the level of surgical techniques and enable the use of high patent materials in the national territory.

Thin, light and easy to trim, it can be used in reconstruction in height and volume defect, alveolus and must always be associated with screws to ensure the best performance. It serves as a non-absorbable barrier.

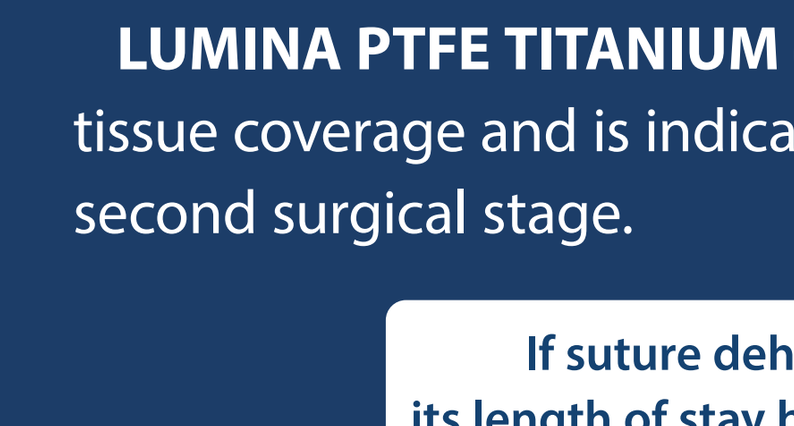
While the titanium reinforcement brings more stability, alignment and maintenance of the handled shape, the smooth surface facilitates its removal.

LUMINA PTFE TITANIUM does not require soft tissue coverage and is indicated to be removed in the second surgical stage.

INDICATIONS

- Post-extraction application aimed at recovering and preserving the alveolar ridge;
- Protection of grafted areas;
- Application in the treatment of guided bone regeneration (GBR);
- Aid in the integration of periodontal tissue components;
- Barrier to soft tissue invagination;
- Treatment of periodontal defects;
- Covering of bone defects.

If suture dehiscence occurs and it is exposed to the oral environment, its length of stay becomes 28 days.



Clinical case images by: Dr. Tárcio Skiba
Using Lumina PTFE Titanium in a GBR case
(Complete clinical case on our website)

LUMINA PTFE TITANIUM

Non-absorbable barrier with reinforcement titanium

0,25x10x25mm

0,25x20x30mm

0,25x38x38mm

Lumina Dermal

SOON LAUNCH

THE BOVINE BIOLOGICAL MEMBRANE!

IT IS NOT HYDROLYZED, IT IS NOT RETICULATED AND IT IS NOT SPONGEY!

LUMINA DERMAL is aLumina Dermal is a UNIQUE and EXCLUSIVE technology, extracted from a specific connective tissue, bringing together the very best in a single product! The best of our membranes, we gather in just one, making it able to follow as a pioneer due to its differentiated characteristics.

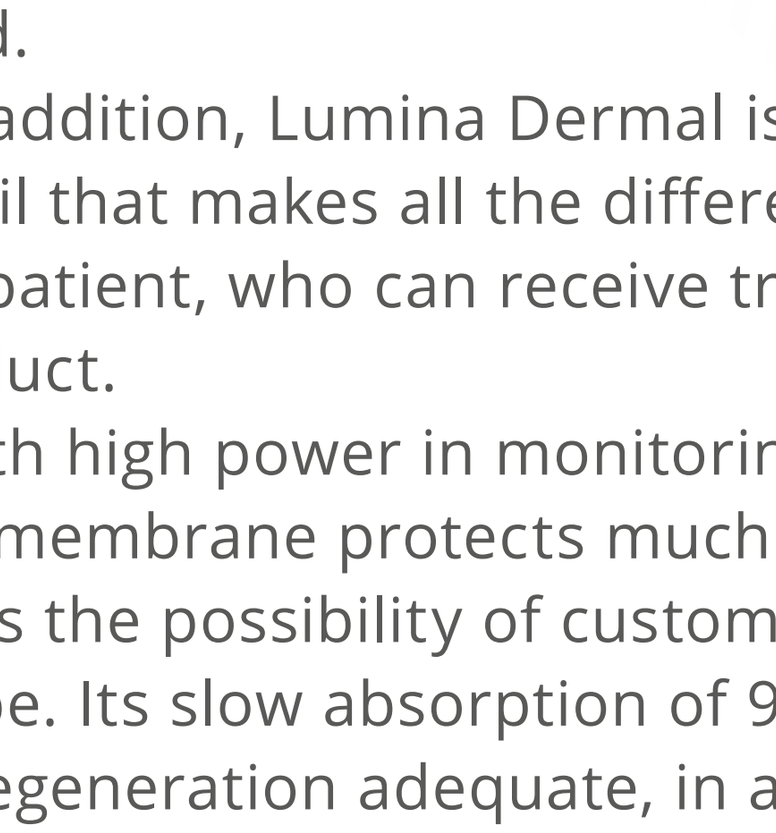
Being the thinnest on the market, safe, quick hydration and flexible, it has the ability to mold itself according to the size of the patient's need.

In addition, Lumina Dermal is a nationally manufactured product, a detail that makes all the difference from our capture of raw materials, to the patient, who can receive treatment with an effective and accessible product.

With high power in monitoring soft tissues in thin gingival phenotypes, this membrane protects much more than conventional membranes, as it has the possibility of custom sizes and can be cut to the desired shape. Its slow absorption of 90 days, promotes patient safety, making its regeneration adequate, in addition to being totally flexible and minimally thick.

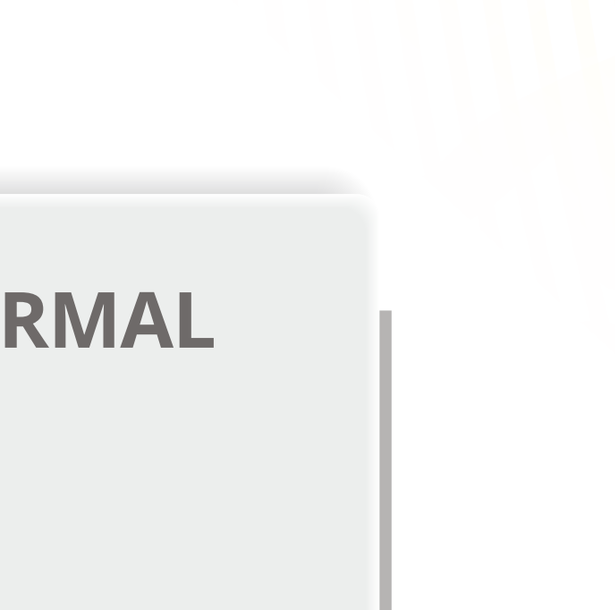
INDICATIONS

- Covering of bone defects;
- Protection of access to the maxillary sinus;
- Protection of bone defect sites;
- Filling of alveoli;
- Protection of exposed root furcation;
- Aid in the integration of periodontal tissue components;
- Biomechanical barrier in guided tissue regeneration processes;



LUMINA DERMAL

0,2x10x20mm
0,2x20x30mm



Lumina Grid

THE PROTECTION AND EFFICIENCY OF THE TITANIUM SCREEN

LUMINA-GRID is the only barrier produced with Grade II Titanium, as per ASTM F67 standard, with surface treatment to optimize cell approximation.

LUMINA-GRID allows total vascularization of the grafted area and prevents the invasion of connective and epithelial tissue cells.

INDICATIONS

- Periodontal intraosseous lesions;
- Filling of bone cavities;
- Corrections resulting from fenestration or periodontal and peri-implant bone dehiscence;
- Biomechanical barrier in guided tissue regeneration processes;
- Reconstitution of the periodontal ligament components.

LUMINA-GRID has no memory, is adjustable and easily adapts to the installation location. It can be cut and has enough spacing between its perforations so that there are no sharp edges.

MICRO MESH
0,08mmx20mmx30mm
With 50µm holes (0.05mm)

Fits with greater ease of installation

MACRO MESH
0,08mmx20mmx30mm
With 150µm (1.5mm) holes

Greater malleability in manipulation

Clinical case images by: Dr. Tárcio Skiba
Use of Lumina Grid and Lumina-Bone Porous large in vertical and horizontal gain
(Complete clinical case on our website)

Lumina Set

SULFATE'S REGENERATING POWER

LUMINA-SET – scalcium sulphate hemihydrate – has fast hardening capacity, with the characteristic of cement and becomes stable in a surgical environment.

It acts as an absorbable barrier, filler or stabilizer and binder for LUMINA-BONE and LUMINA-BONE POROUS grafts, promoting total hemostasis to the recipient bed.

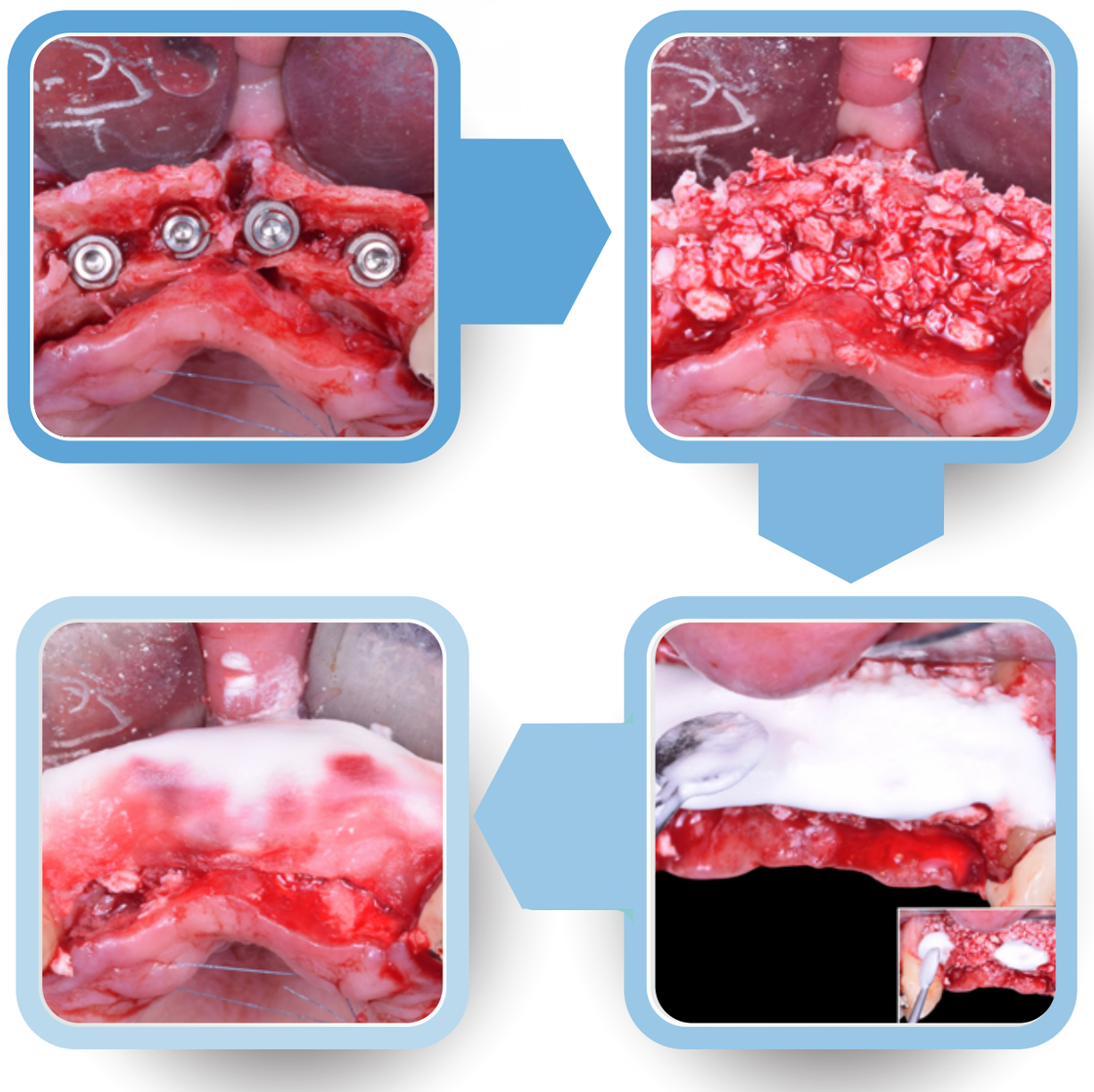
It is also indicated in paraendodontic surgeries, apicectomy and endo-perio lesions. When applied alone on the bone defect, as a barrier or as a filler, it is reabsorbed between 40 and 60 days, allowing its exposure to the oral environment without coverage by soft tissues.

When indicated as a binder or stabilizer of graft particles, it respects the absorption period of the graft material and optimizes the healing process.

INDICATIONS

- Resorbable barrier;
- Bone defect filler;
- Situations with a high risk of suture dehiscence and exposure the surgical site;
- Stabilizer of graft particles;
- Graft particle binder;
- Filler in paraendodontic surgeries and apicectomies;
- Small volume corrections in periodontal and peri-implant surgeries

- ***BINDER***
- ***BACTERIOSTATIC***
- ***HEMOSTATIC***
- ***BARRIER***
- ***PROMOTES OSTEOGENESIS***



Clinical case images by: Dr. Tárcio Skiba
Using Lumina Set, Lumina Porous Large and Lumina Coat Double in Split Crest
(Complete clinical case on our website)

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