Biomaterials@Straumann®

When one option is not enough.
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Decades of experience in dentistry and oral regeneration propelled us to understand and meet the diversity of needs, indications and preferences. The right solution in implantology and periodontology is designed to fit the individual. Straumann offers a complete portfolio of biomaterials that meet your expectations and those of your patients.

COMPLETE REGENERATIVE SOLUTIONS.
Treatment concepts in modern dentistry are getting more complex, taking a holistic view on the clinical situation and the desired outcome. We believe that providing complete solutions for tooth replacement will help you achieve the best possible results.

One-size-fits-all is not enough. Your daily practice shows that you need a complete range of integrated regenerative solutions with predictable positive outcomes for all biological situations and indications in implantology and periodontology.

AN UNPARALLELED RANGE OF REGENERATIVE SOLUTIONS TO SUPPORT IMPLANT AND PERIODONTAL PROCEDURES.
From bone augmentation to esthetically optimal soft tissue results, we offer a substantial range of long-term proven materials (allograft, xenograft, synthetic bone substitute, collagen membrane dermis) and Straumann® Emdogain®, the regeneration solution for periodontology.

Engineered to predictably and reliably regenerate soft and hard tissue, this expanding range of flexible solutions is designed to provide patients with the functional and esthetic result they desire. It is the total regenerative solution that can potentially elevate the patient experience and your practice success.
### Straumann® Bone Substitutes and Membranes

<table>
<thead>
<tr>
<th>Recommendations</th>
<th>Peri-Implant/Dehiscence Defect</th>
<th>Fenestration Defect</th>
<th>Sinus Lift</th>
<th>Extraction Socket</th>
<th>Horizontal Defect</th>
<th>Furcation Defect</th>
<th>Intraosseous Defect</th>
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**Table Notes:**

- **Peri-Implant/Dehiscence Defect:** Ideal for defects around implants where bone resorption has occurred.
- **Fenestration Defect:** Indicated for small bone defects that allow bone-to-implant contact.
- **Sinus Lift:** Used for maxillary sinus augmentation.
- **Extraction Socket:** Designed for defects after tooth extraction.
- **Horizontal Defect:** Suitable for flat bone defects.
- **Furcation Defect:** Recommended for defects involving the furcation area of teeth.
- **Intraosseous Defect:** Indicated for deep bone defects.
- **Vertical Defect:** Focused on vertical bone defects.

**Brand Specifics:**

- **Straumann® AlloGraft Ground Cortical**
- **Straumann® AlloGraft Demineralized Ground Cortical**
- **Straumann® AlloGraft Min/Demin Ground Cortical**
- **Straumann® AlloGraft Ground Cancellous**
- **Straumann® AlloGraft Cortical/Cancellous Mix**
- **Straumann® AlloGraft Custom Block**
- **Straumann® AlloGraft Ring**
- **Straumann® XenoGraft**
- **Straumann® XenoFlex**
- **Straumann® BoneCeramic®**
- **Straumann® Jason® Membrane**
- **Straumann® Membrane Flex™**
- **Straumann® Membrane Plus™**

**Recommendation Summary:**

Recommendations in this table are based on material characteristics and scientific data (where available). They indicate which Straumann products are best suited to treat the specified defects prior to or after dental implant placement.
**Straumann® AlloGraft Granules**

**Processed human allograft**

 Straumann® AlloGraft is an established and reliable alternative to autologous bone. Straumann AlloGraft is processed by LifeNet Health®, the worldwide leading tissue bank and organ procurement organization. It’s the trusted bone regeneration solution most similar to a patient’s own bone that provides a strong start and greater confidence for you and your patients.

**FEATURES AND BENEFITS**

- A true alternative to autologous bone, eliminating donor site complications such as morbidity, infection or post-operative pain
- Storable at room temperature for 3 years (from date of packaging)

*Courtesy of Robert Miller, DMD, Fort Lauderdale, FL*

**Available in the following sizes:**

**AlloGraft Ground Cortical**

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<thead>
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**AlloGraft Cortical Cancellous Mix (50/50)**

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<td>070.232</td>
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</table>
The Straumann® AlloGraft Custom Block is an innovative, customized allogenic bone block which is individually designed and adjusted to the desired 3-dimensional bone contour. Based on planning data and clinician approved, the bone-builder is produced by a milling machine and is provided in sterile condition ready for implantation. The ideal bone substitute for rebuilding 3-dimensional defects and reconstructing the ridge, allowing a patient-friendly treatment.

**FEATURES AND BENEFITS**

- Designed using patient-specific CADCAM file and custom milled for each case for a seamless fit to the patient’s defect
- Flawless match between the Custom Block and the recipient’s ridge is created, which reduces surgical treatment time
- Optimizes contact area between graft and the bone to facilitate revascularization

**Available in the following:**

<table>
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<tr>
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<tr>
<td>CB-002</td>
<td>Design for Straumann® AlloGraft Custom Block</td>
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</table>

The CADCAM prefabricated allogenic bone blocks (delivered sterile) offer a new option for managing patients with 3-dimensional (horizontal and vertical bone loss) and other difficult bone defects with a minimum of trauma. Outstanding results can be achieved especially in the esthetic zone in the maxilla thanks to the volume maintenance of the blocks.
### Straumann® AlloGraft Ring

**Processed allogenic bone ring**

A pre-fabricated ring of processed allogenic cancellous bone that is placed press-fit into a trephine drill-prepared ring bed. This is an innovative solution for 3-dimensional vertical augmentation of bone defects allowing a single-stage graft and implant placement. The simultaneous implant placement saves you and your patient time and a surgical step compared to a conventional bone block, eliminating the need for a second harvesting site and shorter time-to-teeth. The Straumann® AlloGraft Ring technique can be used with the Straumann® Bone Level and Bone Level Tapered implants. Different heights and outer/inner diameters are available.

### FEATURES AND BENEFITS

- Simultaneous bone augmentation and implant placement significantly reduces treatment time compared with a bone block.
- Ring design is ideally suited for reconstruction of the anatomical shape of the jaw.
- Pre-fabricated milled allograft ring compatible with 3.3 & 4.1 Straumann BL & BLT implants, helping to reduce chair time.

**I've been using the bone ring technique since 2005 and have so far successfully set more than 1000 autologous and 200 allograft bone rings. The introduction of allograft bone rings into the market has enabled me to reduce surgery time considerably. Clinically, the allograft bone rings have the same success rate as autogenous bone rings. The significant benefits of this technique are that augmentation and implantation can be performed in a single step. It is significantly less invasive than most other augmentation techniques and I can prevent the patient from needing a second procedure. The healing time is reduced by around six months compared to a bone block.**

---

**Dr. Bernhard Giesenhagen, implantologist and academic teaching partner at Johann Wolfgang Goethe-Universität Frankfurt/Germany**

**Struamann® AlloGraft Ring is recommended for Implantology for the following procedures:**

- Vertical augmentation (3-dimensional defects with low-grade horizontal augmentation)
- Single-tooth gap
- Edentulous space
- Sinus lift

### Available in the following sizes:

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<th>Art.No.</th>
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<td>BR-002</td>
<td>AlloGraft Ring Ø 7.0 mm/3.3 mm, H 10.0 mm</td>
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<tr>
<td>BR-003</td>
<td>AlloGraft Ring Ø 7.0 mm/4.1 mm, H 10.0 mm</td>
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The instruments and the special Closure and Fixation Caps which are used for the Straumann AlloGraft Ring technique are available.
**Straumann® XenoGraft**

Natural bovine bone grafting

*Straumann® XenoGraft* is methodically processed from bovine bone and extensively tested to eliminate antigenicity and provide a favorable environment for new bone growth. Its slow resorption rate delivers extended stability—a critical advantage in cases that require a strong scaffold for long-term tissue support or esthetic needs.

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**FEATURES AND BENEFITS**

- Optimal balance of calcium and phosphate, comparable to human bone
- Excellent hydrophilicity enabling rapid uptake of blood
- Slow resorption rate provides extended stability

---

*Straumann® XenoGraft* is recommended for Implantology, oral surgery and periodontology and craniomaxillofacial surgery (CMS) for the following procedures:

- Sinus floor elevation
- Horizontal augmentation
- Ridge preservation
- Peri-implant defects
- Extraction sockets
- Intraosseous defects

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<td></td>
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</tbody>
</table>

Photos courtesy of Dr. Keun Young Chang
**Straumann® XenoFlex**  
*Bovine bone and porcine collagen*

Tested to eliminate antigenicity and provide a favorable environment for new bone growth, Straumann® XenoFlex is a combination of 90% bovine bone mineral (100% pure hydroxyapatite) with 10% porcine Collagen type I. Its slow resorption rate delivers extended stability – a critical advantage in cases that require a strong scaffold for long-term tissue support and esthetic needs. The collagen fibers facilitate the adhesion of proteins and signals molecules from the blood to the embedded granules to further improve the fast bony integration of Straumann® XenoFlex.

**FEATURES AND BENEFITS**
- Pliable one-piece block for ease of handling & application
- Optimal balance of calcium and phosphate, comparable to human bone
- Dependable volume stability

**Straumann® XenoFlex is recommended for**  
Implantology, oral surgery and periodontology and craniomaxillofacial surgery (CMS) for the following procedures:
- Sinus floor elevation
- Horizontal augmentation
- Ridge preservation
- Peri-implant defects
- Extraction sockets
- Intraosseous defects

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Photos courtesy of Dr. Chong-Pyung Chung
**Straumann® BoneCeramic®**

**Alloplastic biphasic calcium phosphate**

Straumann® BoneCeramic® is one of the most documented alloplastic bone substitutes on the market, offering a scaffold with resorption for vital bone regeneration without compromising on volume preservation. With its slow and controlled resorption properties and its homogenous composite of HA and ß-TCP (60/40%), it is an excellent choice for you and your patients in virtually any clinical situation. Since it is fully synthetic, the quality is consistent and reproducible.

**FEATURES AND BENEFITS**

- Sterile biphasic calcium phosphate
- Osteoconductive
- 90% interconnected porous structure to allow for ingrowth of bone forming cells and nutritive blood vessels
- Slow and controlled resorption properties with a 60/40 mixture of hydroxyapatite (HA) and ß-tricalcium phosphate (ß-TCP)
- Extensively clinically documented in different indications
- Easy handling

**Available in the following sizes:**

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<th>Art.No.</th>
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<th>Content</th>
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</tr>
<tr>
<td>070.205</td>
<td>500-1000 µm</td>
<td>1.0 g</td>
</tr>
</tbody>
</table>

**Straumann® BoneCeramic® is recommended for**

Implantology, periodontology and oral surgery for the following procedures:

- Sinus lift
- Bony defects of the alveolar ridge
- Intraosseous defects
- Peri-implant defects
- Extraction sockets

**Courtesy of Dr. A. Stricker, Konstanz/Germany**
After eight years of intensive clinical use, the Straumann® Jason® pericardium membrane has proven to provide the required outcome, especially in larger augmented areas. In my experience, this combination with a slowly resorbable bone graft material provides ideal volume maintenance and bone formation up to the outline of the graft.

*Based on rat study / data on file at Botiss Biomaterials.

Prof. Dr. Dr. Daniel Rothamel, Head of Department, Oral and Maxillofacial Plastic Surgery, Johanniter Hospital Bethesda Mönchengladbach, Germany

After eight years of intensive clinical use, the Straumann® Jason® pericardium membrane has proven to provide the required outcome, especially in larger augmented areas. In my experience, this combination with a slowly resorbable bone graft material provides ideal volume maintenance and bone formation up to the outline of the graft.

*Based on rat study / data on file at Botiss Biomaterials.
Straumann® Membrane Flex™
Collagen membrane from porcine peritoneum

Straumann® Membrane Flex™ provides flexibility and strength in an easy-to-handle, easy-to-suture barrier for soft tissue support and graft containment. Meticulously manufactured from highly purified intact porcine collagen and minimally cross-linked, it’s biocompatible and predictably resorbable. It conforms to defects and contours—plus, it’s easy to reposition. Once in place, it can be firmly anchored to surrounding tissue with minimal risk of tearing or detachment, thanks to its high suture pullout strength.*

FEATURES AND BENEFITS

- Proven biomechanical strength enhances fixation assurance*
- Can be placed dry or hydrated
- Can be easily repositioned for precise placement
- Protects the graft area from unwanted soft tissue infiltration during the initial phase of healing, while still allowing for healthy nutrient transfer

Available in the following sizes:

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*Data on file with manufacturer

Straumann® Membrane Flex™ is recommended for
Implantology, periodontology, and oral surgery for the following procedures:

- Socket preservation
- Horizontal and vertical ridge augmentation
- Fenestration and dehiscence defects
- Intraosseous and furcation defects
- Sinus lift
Strannann® Membrane Plus™
Collagen membrane from bovine tendon

Straumann® Membrane Plus™ enhances graft stabilization and bone growth by providing soft tissue support and space maintenance over a predictable time-frame. Meticulously manufactured from bovine material that is one of the purest forms of collagen. It’s treated and sterilized to be biocompatible, and cross-linked for predictable resorption rates. With its easy handling characteristics, it’s designed to be the easy way to provide critical support.

FEATURES / BENEFITS
- Composed of multiple layers of type 1 collagen, providing soft tissue support
- Predictably resorbs after 6 months, eliminating the need for a second surgery for removal
- Cross-linking allows for reliable performance even if exposed
- Provides support for peri-implant dehiscence defects, fenestration defects, sinus lifts, and horizontal or ridge augmentations

Available in the following sizes:

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Straumann® Membrane Plus™ is recommended for
Implantology, periodontology and oral surgery for the following procedures:
- Sinus lift
- Ridge augmentation
- Intraosseous defects
- Extraction sockets
- Furcation defects
- Peri-implant defects
Straumann® AlloGraft Dermal Matrix
Cell-occlusive natural membrane

Straumann® AlloGraft Dermal Matrix is an acellular dermal matrix excellent for GTR/GBR and oral soft tissue correction in areas such as periodontal defects and ridge preservation.

FEATURES / BENEFITS
- Packaged sterile with an SAL of 10⁻⁶ for increased patient safety
- Storage at ambient temperature; no refrigeration needed
- ≥ 97% of DNA removed while retaining native growth factors, collagen and elastin
- No rehydration needed
- Effective site remodeling

Straumann® AlloGraft Dermal Matrix is recommended for
Implantology, oral surgery and periodontology and craniomaxillofacial surgery (CMS) for the following procedures:
- Membrane (bone graft containment)
- Gingival recession
- Implant preparation
- Ridge preservation
- Periodontal defects
- Soft tissue repair/correction
- Furcation defects
- Peri-implant defects

Available in the following sizes:

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<tr>
<td>DM-200</td>
<td>1.26-1.75 mm thickness, 15x20 mm</td>
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<tr>
<td>DM-251</td>
<td>1.26-1.75 mm thickness, 10x40 mm</td>
</tr>
<tr>
<td>DM-201</td>
<td>1.26-1.75 mm thickness, 20x40 mm</td>
</tr>
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</table>
Periodontitis is associated with a loss of tooth-supporting tissues which is irreversible and the main reason for tooth loss if left untreated. Emdogain® is the gold standard when it comes to inducing the regeneration of lost periodontal tissues in a safe, easy and predictable way. Long-term clinical studies have demonstrated that Emdogain® can effectively help save teeth and revert gingival recessions.7,8,9,10

**FEATURES AND BENEFITS**

- Induces true regeneration of periodontium as evidenced by human histological studies 8,9,10
- Patients report less post-surgical discomfort 9,10
- Easy to apply, even when defect is difficult to access
- Shows less complications compared to membranes 11

Prof. Dr. David Cochran, Implantologist, San Antonio/USA

“Emdogain® is a unique set of proteins that has been shown to stimulate periodontal regeneration at the histological level. It can function either alone or when mixed with a bone graft.”

**Straumann® Emdogain® is indicated for the treatment of the following conditions:**

- Intrabony defects due to moderate or severe periodontitis
- Mandibular degree II furcations with minimal interproximal bone loss
- Gingival recession defects in conjunction with surgical coverage procedures such as coronally advanced flap
- Minimally invasive surgical technique in esthetic zones for intrabony defects
- Wide defects in conjunction with a bone graft material

**Available in the following sizes**

<table>
<thead>
<tr>
<th>Art.No.</th>
<th>Description</th>
</tr>
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<tr>
<td>Multi packs: Emdogain® + PrefGel®</td>
<td></td>
</tr>
<tr>
<td>075.114W</td>
<td>3 × Straumann® Emdogain® 0.3 ml + 3 × Straumann® PrefGel® 0.6 ml</td>
</tr>
<tr>
<td>075.116W</td>
<td>3 × Straumann® Emdogain® 0.7 ml + 3 × Straumann® PrefGel® 0.6 ml</td>
</tr>
<tr>
<td>Five packs</td>
<td></td>
</tr>
<tr>
<td>075.098W</td>
<td>5 × Straumann® Emdogain® 0.15 ml</td>
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<tr>
<td>PrefGel®</td>
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</tr>
<tr>
<td>075.203W</td>
<td>5 × Straumann® PrefGel® 0.6 ml</td>
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</tbody>
</table>
Straumann® Emdogain®: The Numbers

> 20 years on the market

> 2 million patients treated*

> 600 clinical & 1,000 scientific publications**

#1 in tissue regeneration***

Stable results documented over 10 years in 2 indications 7,8,9,10

*Based on the number of syringes sold to date, globally
**According to PUBMED search for “Emdogain” or “enamel matrix derivative”
***Millennium Research Group, Dental Biomaterials/Med tech 360/market analysis, 2016; page 123
REFERENCES


