In partnership, we’re better
IN PARTNERSHIP, WE'RE BETTER

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1 US market report suite for dental bone graft substitutes and other biomaterials, iDATA_USDBG19_MS, Published in January 2019 by iData Research Inc., 2019. (Market Research)
2 Europe market report suite for dental bone graft substitutes and other biomaterials, iDATA_EUDBG19_MS, Published in July 2019 by iData Research Inc., 2019. (Market Research)
3 China market report suite for dental bone graft substitutes and other biomaterials, iDATA_CHDBG18_MS, Published in November 2018 by iData Research Inc., 2018. (Market Research)
4 Australia market report suite for dental bone graft substitutes and other biomaterials, iDATA_AUDBG18_MS, Published in November 2018 by iData Research Inc., 2018. (Market Research)
5 India market report suite for dental bone graft substitutes and other biomaterials, iDATA_INDBG18_MS, Published in November 2018 by iData Research Inc., 2018. (Market Research)
Geistlich biomaterials – From pioneer to expert

Thanks to intensive research and close collaboration with scientists and dentists over 30 years ago, Dr. Peter Geistlich created pioneering products for a new technology, Guided Bone Regeneration (GBR).

Organic components were removed from bone for the first time without alteration to its microstructure and mineral part. This is how Geistlich Bio-Oss®, a natural bone mineral replacement material of bovine origin whose structure and chemical composition resembles the mineralized human bone, came into being.

In consequence, Dr. Peter Geistlich achieved another milestone with the development of Geistlich Bio-Gide®, a native bilayer collagen membrane. Geistlich Bio-Gide® enables surgical treatments to be simplified, replacing non-resorbable e-PTFE membranes. Geistlich Bio-Gide® provides optimal wound healing properties for effective bone regeneration. 14

EXPERTISE IN COLLAGEN PROCESSING
Along with bone-processing, Geistlich has specialized in the processing of collagen for over 160 years and has refined this expertise from generation to generation. Manufacturing processes and systems have been continually optimized to make them cutting edge in their field. Today’s product range comprises many specialized collagen products such as a membrane for hard- and soft-tissue regenerative procedures, (Geistlich Bio-Gide®), matrices for soft-tissue regeneration (Geistlich Mucograft®, Geistlich Fibro-Gide®), and products designed for easy handling (Geistlich Bio-Oss® Collagen).

The Dream-Team: Geistlich Bio-Oss® and Geistlich Bio-Gide®

Guided Bone Regeneration (GBR) with Geistlich Biomaterials

Guided Bone Regeneration uses the body’s regenerative capability to reconstruct missing bone. Compared to other regenerative techniques, GBR has proved to be especially dependable. Predictable results can be obtained both functionally and esthetically, even in complex cases.

The GBR success story is the result of close and inspiring collaboration between Geistlich Biomaterials and leading dental specialists. The combined application of Geistlich Bio-Oss® and Geistlich Bio-Gide® as a part of GBR is today considered the standard treatment for a wide range of clinical procedures.

“A POWERFUL COMBINATION

With Geistlich Bio-Oss® and Geistlich Bio-Gide® dentists can have confidence that they are using complimentary products that have extensive scientific documentation and proven effectiveness in millions of clinical applications.

› High long-term implant survival rate
› Pleasing esthetic long-term results
› Easy and safe to use

Prof. Daniel Buser | Bern, Switzerland

“GBR with biomaterials from Geistlich succeeds esthetically and functionally, is extremely reliable and features minimal risk of esthetic complications.”

Work with the no. 1

Your worldwide no. 1 reference

Geistlich Bio-Oss® and Geistlich Bio-Gide® are the experts in regenerative dentistry. Some 1,400 pre-clinical and clinical studies prove the successful applications of the biomaterials. No other supplier has the experience of Geistlich Biomaterials when it comes to the number of patients treated and products sold. For almost 30 years Geistlich Biomaterials has been the undisputed no. 1 in regenerative dentistry.

Unique biofunctionality

The excellent results of Guided Bone Regeneration with Geistlich Bio-Oss® and Geistlich Bio-Gide® are largely due to their unsurpassed biofunctionality. The products are perfectly suited to combined use: Geistlich Bio-Oss® forming the scaffold for the in-growing blood vessels and bone-forming osteoblasts while Geistlich Bio-Gide® prevents soft-tissue ingrowth supports vascularization and wound healing.

Outstanding quality

Quality and safety are at the forefront of the manufacturing process at Geistlich Pharma. At our site in Switzerland we inspect every production stage of our biomaterials; from the raw material selection through to the quality control of the final product. Our products and processes are regularly verified by stringent international agencies.

Not all biomaterials are the same – Take a closer look

Geistlich Bio-Oss® the bone replacement material with outstanding biofunctionality

Geistlich Bio-Oss® is chemically as well as structurally comparable to the human bone mineral. The biofunctional biomaterial aids vascularization and the formation of new bone. The slow resorption of Geistlich Bio-Oss® increases the stability of the augmentation material – the best prerequisite for long-term implant survival rates.

Geistlich Bio-Gide® the unique bilayer collagen membrane

Geistlich Bio-Gide® is a porcine collagen membrane without any artificial cross-linking which closely resembles human collagen. The natural bilayer structure promotes reliable bone regeneration and optimal tissue integration on account of an appropriate barrier duration. The soft-tissue heals without scarring and largely without complications.

26 NCBI Pubmed, October 2019, Search term: Bio-Oss OR Bio-Gide, PubMed Filter “Species: Humans” (817 hits) or “Other animals” (660 hits) (Market research).
Complementary processes in bone regeneration

1 UNIQUE STRUCTURES

Optimal protection for bone regeneration
Geistlich Bio-Gide® is a unique bilayer collagen membrane comprising a porous and a dense surface.28

Uneventful wound healing22
The dense layer orientated towards the soft-tissue, favors the growth of fibroblasts. Whilst the barrier function prevents the ingrowth of soft-tissue into the newly forming bone beneath.4,23,27

Optimum bone healing27
The porous layer orientated towards the bone, functions as a three-dimensional scaffold for osteoblasts growth.22

Prompt and homogeneous vascularization23
The natural collagen structure of Geistlich Bio-Gide® permits prompt and homogeneous vascularization and so brings about optimum tissue integration and wound stabilization.

2 BIOLOGICAL INTERACTION

Geistlich Bio-Gide®

Geistlich Bio-Oss®

Ideal environment for forming new bone32
Geistlich Bio-Oss® consists of a unique interlinked pore system. The micropores ensure an efficient fluid intake. The macropores permit unimpeded migration of cells.

Plenty of space for vascularization and bone formation34,35
The pore system and surface morphology of Geistlich Bio-Oss® favors the growth of osteoblasts. The porous structure serves as a scaffold for in-growing blood vessels and bone growth. Fluorescently-labelled hMSCs* grown on Geistlich Bio-Oss® particles for 3 weeks.32

Geistlich Bio-Oss®:
Micropores (5000×)28

Geistlich Bio-Gide®:
Unique bilayer structure (100×)28

Fluorescently-labelled hMSCs* grown on Geistlich Bio-Oss® particles for 3 weeks.32

30 Kim M et al., In Vivo. 2008; 22(2):231-6 (Preclinical study).
33 Weibrich G et al., Mund Kiefer Gesichtschirurg. 4, 2000 May;148–52 (Preclinical study).
3 INTEGRATION

Optimal barrier time
Optimal barrier instead of unnecessary blockade! Once the protective function of Geistlich Bio-Gide® has been fulfilled, the membrane resorbs and the natural complex structure of the soft-tissue, with all the intrinsic components such as the periosteum, forms. 14,29–31

Stable scaffold for new bone 36–39
Thanks to its biofunctionality, Geistlich Bio-Oss® is integrated into the natural bone remodelling process. Geistlich Bio-Oss® and the newly formed bone make a stable scaffold which favors long-term clinical success.

Clinical long-term success in combination
The slow resorption of Geistlich Bio-Oss® and the ideally matched protective function of Geistlich Bio-Gide® promote the long-term volume stability 13 of the augmentation material and ensure high implant survival rates. 16

Implant survival rate with Geistlich Bio-Oss® & Geistlich Bio-Gide®
96%
Aghaloo et al. 2007

4 CLINICAL LONG-TERM SUCCESS

* Human mesenchymal stem cells
“I have faith in Geistlich Biomaterials because they are scientifically proven and have been used successfully in practice for years.”
Numerous studies prove excellent long-term results

After 12–14 years implants that were placed in bones augmented with Geistlich Bio-Oss® and Geistlich Bio-Gide® show a similar survival rate as implants in pristine bone.16

Implant survival rate (%)

<table>
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<tr>
<th>Implant type</th>
<th>Survival Rate (%)</th>
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<tbody>
<tr>
<td>Implants in intact bone</td>
<td>94.6</td>
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<tr>
<td>GBR with Geistlich Bio-Oss® and Geistlich Bio-Gide®</td>
<td>91.9</td>
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</table>

...and stable esthetic results

Guided Bone Regeneration with Geistlich Bio-Oss® and Geistlich Bio-Gide® yield reliable results in esthetic terms. Due to the contour augmentation the facial bone wall was able to be preserved in 95% of patients over a period lasting from 5 to 9 years.17,40

Reliable: 91.9 % implant survival rate after 12–14 years

Predictable: Well preserved facial bone wall after 5–9 years

Minor bone augmentation

Prof. D. Buser
The right solution for every challenge

**Extraction sockets with defective socket**

Prof. M. Araújo

1. Clearly visible buccal bone dehiscence after extraction of tooth 14 and forming a flap.
3. A Geistlich Bio-Gide® is applied to cover the augmentation material.
4. 4 months after extraction: abundant newly formed buccal bone.

**Product solution:** Geistlich Bio-Oss® Collagen | Geistlich Bio-Gide®

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**Extraction sockets with intact socket**

Dr. R. Cavalcanti

1. Initial situation before extracting tooth 14.
2. Extraction socket filled with Geistlich Bio-Oss® Collagen and sealed with Geistlich Mucograft® Seal.
4. Final restoration 7 months after tooth extraction.

**Product solution:** Geistlich Bio-Oss® Collagen | Geistlich Mucograft® Seal

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**Minor bone augmentation**

Prof. K.-L. Ackermann

1. Bone loss showing apical implant threads.
4. Good healing of the hard and soft-tissue 13 months after surgery.

**Product solution:** Geistlich Bio-Oss® Collagen | Geistlich Bio-Gide®

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**Major bone augmentation**

Prof. D. Buser

1. Defect with pronounced horizontal bone loss.
2. Cortico-cancellous bone transplant from the chin area.
4. Suitable bone bed for implant placement 6 months after surgery.

**Product solution:** Geistlich Bio-Oss® | Geistlich Bio-Gide®
Sinus floor elevation

Dr. P. Valentini

1. Atrophied posterior maxilla with insufficient bone height (<2–3 mm).
2. Geistlich Bio-Oss® completely fills the lateral window orientated to the buccal bone wall.
3. The lateral window is covered with a Geistlich Bio-Gide® membrane.
4. The postoperative x-ray shows the augmented region and the implants placed.

Periodontal defects

Prof. M. Christgau

1. Intraoperative view of the elongated twin-wall defect.
2. The basal defect is filled with autologous bone chips and augmented with Geistlich Bio-Oss® Collagen.

Peri-implantitis

Prof. F. Schwarz*

1. Class Ic* defect configuration.
2. Class Ic defect component after application of Geistlich Bio-Oss®.
4. Radiographic findings after 12 months show a gain in bone.

Soft-tissue regeneration

Dr. M. K. McGuire**

1. Initial situation: Patient with insufficient keratinized tissue.
2. Geistlich Mucograft® is cut to the size of the defect and placed onto the recipient site in a dry state.
3. Geistlich Mucograft® is sutured with 5–0 sutures and absorbs the blood from the receiving site.
4. Gain in keratinized gingiva and excellent color and texture match to the adjacent tissue after 6 months.

Product solution: Geistlich Bio-Oss® Pen | Geistlich Bio-Gide®

Product solution: Perio-System Combi-Pack

Product solution: Geistlich Bio-Oss® | Geistlich Bio-Gide®

Product solution: Geistlich Mucograft®

Product solution: Geistlich Bio-Oss® | Geistlich Bio-Gide®

### Treatment & product solutions

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<th>Extraction sockets with defective socket</th>
<th>Minor bone augmentation</th>
<th>Major bone augmentation</th>
<th>Sinus floor elevation</th>
<th>Peri-implantitis</th>
<th>Soft-tissue regeneration</th>
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Product availability may vary from country to country.
Rely on our products for peace of mind

**GEISTLICH BIO- OSS®**

› Geistlich Bio-Oss® is the most used and – with over 1,000 studies⁴¹ – the most documented bone replacement material in regenerative dentistry.

› The biofunctional biomaterial aids vascularization and the formation of new bone.²⁴ The slow resorption of Geistlich Bio-Oss® increases the stability of the augmentation material³ – the best prerequisite for a long-term high implant survival rate.³⁶

› Geistlich Bio-Oss® Collagen and the Geistlich Bio-Oss Pen® provide enhanced handling.

**GEISTLICH BIO-GIDE®**

› Geistlich Bio-Gide® is the most documented collagen membrane in regenerative dentistry.⁴²

› Geistlich Bio-Gide® Compressed is the product twin to Geistlich Bio-Gide® with firmer in touch.²⁸

› Geistlich Bio-Gide® Shape is a ready-to-use and pre-shaped membrane indicated for use in combination with Geistlich Bio-Oss® Collagen for application in extraction sockets with defective buccal bone walls.²⁸

› Geistlich Bio-Gide® Perio facilitates cutting when dry and eases application in guided tissue regeneration during surgery due to its firmer material.²⁸

**GEISTLICH FIBRO-GIDE® AND GEISTLICH MUCOGRAFT®**

› Geistlich Fibro-Gide® is a volume-stable collagen graft, designed to be used specifically in soft-tissue augmentation procedures.²⁹

› Geistlich Mucograft® / Geistlich Mucograft® Seal is unique collagen matrix that has been specially developed for soft-tissue regeneration.²⁸

› Geistlich Mucograft® / Geistlich Mucograft® Seal is intended to be used in closed and open healing situations to close wounds of oral mucosa / support wound healing and regeneration processes in case of oral mucosa defects and deficiencies.

› Geistlich Mucograft® Seal is available in a convenient circular shape and indicated for use in combination with Geistlich Bio-Oss® Collagen for sealing extraction sockets with preserved buccal walls.

› Both Geistlich Fibro-Gide® and Geistlich Mucograft® / Geistlich Mucograft® Seal are proven alternatives to autologous soft-tissue grafts.⁴⁰–⁴⁷

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⁴¹ NCBI Pubmed, October 2019, Search term “Bio-Oss” (1,141 hits) (Market research).
⁴² NCBI Pubmed, October 2019, Search term “Bio-Gide” (339 hits) (Market research).
As a result of its longstanding tradition the Swiss family firm Geistlich Biomaterials is now one of the leading global suppliers in regenerative dentistry. Dentists and dental specialists in nearly 90 markets on 6 continents place their faith in the reliable and peerless quality of Geistlich Bio-Oss® and Geistlich Bio-Gide®. More than 600 employees in 12 locations ensure that the pioneering products remain at the top of their field: Through intensive scientific research and the sustainable refinement of solutions with our users in mind.

From experts. For experts.