

LEADING REGENERATION

Geistlich
Biomaterials



Patient Information

Treatment of larger bone defects

Back to a healthy smile

Post-operative care is an area where you can contribute to the success of your procedure.



Do's

- › Maintain your oral hygiene and use antibacterial mouthwash as prescribed by your dentist.
 - › Treat swelling with moistcold pads.
 - › Consult your dentist regarding pain.
 - › Make sure that you visit your dentist for a follow-up appointment.
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Don't's

- › Do not neglect your oral hygiene.
 - › Do not brush or floss at the site of surgery for 1 week after surgery. A toothbrush with especially soft bristles can usually be used for cleaning the teeth in the vicinity of the wound.
 - › Do not drink coffee or alcohol and do not smoke cigarettes for 2–3 days after surgery.
 - › Avoid chewing of hard food.
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Dental treatments are a matter of trust

Our experience and expertise is something you can rely on

Over 15 million patients worldwide have been treated with Geistlich biomaterials.¹⁻⁷ Let us share some facts with you about these products:

- › Geistlich products are scientifically proven top quality Swiss biomaterials.
- › Meticulous selection of raw materials, together with a strictly controlled manufacturing process, allows Geistlich biomaterials to conform to high safety requirements and ensures high tolerability.

Geistlich Biomaterials

- › Your worldwide no. 1 reference^{8,9}
 - › Outstanding quality^{10,11}
 - › High biofunctionality¹²⁻¹⁵
- › These natural biomaterials were evaluated in more than 1,400 studies from countries all over the world.¹⁶
 - › The safety has been assessed by international and national regulatory bodies.

Why is a treatment beneficial?

Smile again

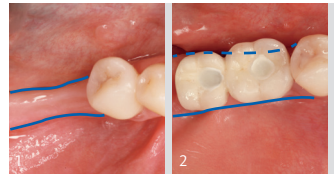
Aesthetically pleasing outcomes & maintenance of healthy teeth.

Restoring functionality

Predictable bone gain for long-term implant survival.^{12,17,18}

Stable outcomes

Less bone resorption & stable clinical outcomes.¹⁹⁻²³



¹ Implant placement is not possible due to insufficient bone width.

² 2 years post-operation: enough bone width maintained.

Prof. Dr. Istvan Urban (Budapest, Hungary)



¹ Implant placement is not possible due to insufficient bone height.

² 6 months post-operation: sufficient bone height maintained for stable implant placement.

Dr. Mauro Merli (Rimini, Italy)

What happens when there is not enough bone available?

Accidents, dental traumas or advanced periodontitis are just some of many reasons for tooth loss followed by degradation of bone.

If the treatment is delayed for too long...

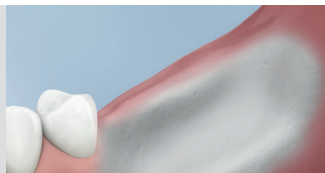
- › the height and/or thickness of the jaw bone diminishes.
- › there is insufficient amount of bone for implant placement.

Sufficient bone is essential to ensure the long-term stability of your dental implants.

How can these bone defects be treated?

There are two clinical situations that can occur:

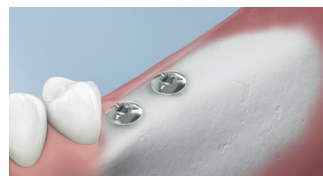
Insufficient width of the bone wall



Large bone defects where one bone wall is maintained can be restored...



...by using autologous bone blocks in combination with Geistlich Bio-Oss® and a Geistlich Bio-Gide® membrane.



In both cases, the optimal clinical outcome are restored bone walls where implants can be easily inserted.

Insufficient height of the bone wall



Large bone defects where the bone walls are completely diminished can be restored...



...by using a form-stable membrane, Geistlich Bio-Oss® and autologous bone chips to reshape the bone walls. A Geistlich Bio-Gide® membrane is used to support soft tissue healing.

Geistlich Biomaterials

Biomaterials are scaffolds that can be implanted to replace or repair missing tissue.

Biomaterials, such as bone substitutes, collagen membranes and matrices, are used regularly in regenerative dentistry to support the body's own tissue regeneration process effectively.

Geistlich Bio-Oss® promotes effective bone regeneration²⁴

- › Providing a foundation for your body to regenerate bone.
- › Made from the mineral part of the bones originating from cattle.
- › Swiss quality, refined through 30 years of experience.

Geistlich Bio-Gide® for uneventful wound healing^{25,26}

- › Provides optimal wound healing properties for effective bone regeneration.²⁸
- › Made of collagen obtained from healthy pigs.
- › Swiss quality, refined through 20 years of experience.



Bone regeneration in larger bone defects require some form of grafting in order to restore volume, stability and ultimately regenerate bone.

Biomaterials from Geistlich Pharma AG are the most frequently used materials in regenerative dental medicine throughout the world:^{1-9,27}

More than 15 million
Geistlich Bio-Oss®



More than 6.5 million
Geistlich Bio-Gide®



More than 200,000
Geistlich Mucograft®



More than 15,000
Geistlich Fibro-Gide®



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For more information about our distribution partners:



References

- 1 Europe market report suite for dental bone graft substitutes and other biomaterials, iDATA_EUDBGS19_MS, Published in July 2019 by iData Research Inc., 2019 (Market research).
- 2 China market report suite for dental bone graft substitutes and other biomaterials, iDATA_CHDBGS18_MS, Published in November 2018 by iData Research Inc., 2018 (Market research).
- 3 Australia market report suite for dental bone graft substitutes and other biomaterials, iDATA_AUDBGS18_MS, Published in November 2018 by iData Research Inc., 2018 (Market research).
- 4 India market report suite for dental bone graft substitutes and other biomaterials, iDATA_INDBGS18_MS, Published in November 2018 by iData Research Inc., 2018 (Market research).
- 5 South Korea market report suite for dental bone graft substitutes and other biomaterials, iDATA_SKDBGS18_MS, Published in November 2018 by iData Research Inc., 2018 (Market research).
- 6 Japan market report suite for dental bone graft substitutes and other biomaterials, iDATA_JPDBGS18_MS, Published in November 2018 by iData Research Inc., 2018 (Market research).
- 7 US market report suite for dental bone graft substitutes and other biomaterials, iDATA_USDBGS19_MS, Published in January 2019 by iData Research Inc., 2019 (Market research).
- 8 Millennium Research Group, Dental Biomaterials North America, 2018 (Market research).
- 9 Millennium Research Group, Dental Biomaterials Europe, 2016 (Market research).
- 10 MDSAP ISO 13485 Certificate
- 11 EC Certificate of Full Quality Assurance System
- 12 Jung R, et al.: Clin Oral Implants Res 2013;24(10):1065–73. (Clinical study)
- 13 Buser D, et al.: J Periodontol 2013;84(11):1517–27. (Clinical study)
- 14 Jensen SS, et al.: J Periodontol 2014;85(11):1549–56. (Clinical study)
- 15 Mordenfeld A, et al.: Clin Oral Implants Res 2010;21(9): 961–70. (Clinical study)
- 16 NCBI Pubmed, October 2019, Search term: Bio-Oss OR Bio-Gide OR Mucograft OR Fibro-Gide, PubMed Filter "Species: Humans" (836 hits) or "Other animals" (667 hits). (Market research).
- 17 Urban IA, et al.: Int J Periodontics Restorative Dent 2013;33(3):299–307. (Clinical study)
- 18 Chiapasco M, et al.: Clin Oral Implants Res 2012;23(9):1012–21. (Clinical study)
- 19 von Arx T, et al.: Clin Oral Implants Res 2006;17(4):359–66. (Clinical study)
- 20 Canullo L, et al.: Int J Periodontics Restorative Dent 2006;26(4):355–61. (Clinical study)
- 21 Maiorana C, et al.: Int J Oral Maxillofac Implants 2005;20(2):261–6. (Clinical study)
- 22 Maiorana C, et al.: Open Dent J. 2011 ; 25(5):71–8. (Clinical study)
- 23 Cordaro L, et al.: Clin Oral Implants Res 2011;22(10):1145–50. (Clinical study)
- 24 Degidi M, et al.: Clin Implant Dent Relat Res 2009;11(3):178–82. (Clinical study)
- 25 Becker J, et al.: Clin Oral Implants Res 2009; 20(7):742–749 (Clinical study)
- 26 Tal H, et al.: Clin Oral Implants Res 2008; 19(3) : 295–302 (Clinical study)
- 27 Based on the number of units currently sold. Data on file (Wolhusen, Switzerland)
- 28 Zitzmann NU, et al.: Int J Oral Maxillofac Implants 1997;12(6):844–52. (Clinical study)