

LEADING REGENERATION

Geistlich
Biomaterials



Patient Information

Inflamed gums – now what?

Dental treatments are a matter of trust

Our experience and expertise is something you can rely on

Over 10 million patients worldwide have been treated with Geistlich biomaterials. 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.
- › These natural biomaterials were evaluated in more than 1,400 studies from countries all over the world.¹¹
- › The safety has been assessed by international and national authorities.

Geistlich Biomaterials

- › Your worldwide no. 1 reference^{1,2}
- › Outstanding quality^{3,4}
- › High biofunctionality¹⁰

Why is a treatment beneficial?

Smile again

Aesthetically pleasing outcomes & maintenance of healthy teeth.^{10, 12-14}

Less pain & fewer complications

No harvesting of own tissue from the palate.^{10, 15-18}

Less surgical chair time

With Geistlich Mucograft® the surgical chair time is clearly reduced.^{12, 15}



Initial situation before treatment

Due to inflammation and bleeding the oral hygiene is impaired.



6 month after surgery

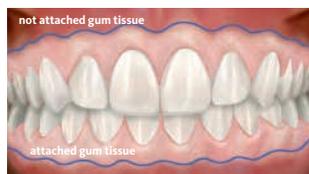
Restored healthy attached gum tissue with Geistlich Mucograft®.

Dr. Panaite & Dr. Charles (Pasadena, USA)

What happens when gum tissue is not healthy?

If you have insufficient healthy attached gum tissue, several oral health problems like inflammation, pain, bleeding and loss of bone and gums can occur.¹⁹⁻²²

Healthy situation



Healthy gums allow optimal oral hygiene for maintenance of bone and gums.

Problematic situation



Shifted boundaries between attached and unattached gum tissue can lead to problems.

Exposed tooth necks are one of the consequences of unhealthy gum tissue.

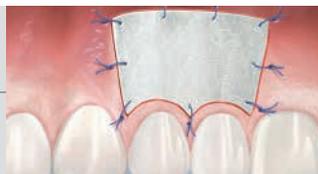
How can gum tissue be regenerated?



Initial situation showing an inflamed area in the gum.



Preparation of the surgical site: unhealthy gum tissue is removed.



Following the preparation, Geistlich Mucograft® is used to help regenerate attached gum tissue.



Restored, healthy attached gum tissue 6 months after surgery (results may vary).

Solution

An increase in gum tissue can be achieved by a suitable surgical approach. Your dentist will advise you on treatment individually adapted for you.

It is important to address existing infections before surgical treatment. Your dentist will advise you on appropriate measures individually adapted for you.

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 Mucograft® for gum regeneration ^{9,10,15}

- › A scaffold upon which your body can regenerate your own gums.
- › Made of collagen obtained from healthy pigs.
- › Winner of the Swiss IHZ-Innovation Award 2014: first product developed specifically for gum regeneration.



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 mouth wash as prescribed by your dentist.
 - › Treat swelling with moist-cold pads.
 - › Consult your dentist regarding pain.
 - › Make sure that you visit your dentist for a follow-up appointment.
-
-

Dont'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.
-
-



Biomaterials from Geistlich Pharma AG are the most frequently used materials in regenerative dental medicine throughout the world:²³

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®



Manufacturer
© Geistlich Pharma AG
Business Unit Biomaterials
Bahnhofstrasse 40
CH-6110 Wolhusen
Phone +41 41 492 56 30
Fax +41 41 492 56 39
www.geistlich-biomaterials.com

For more information about our distribution partners:



References

- 1 Millennium Research Group, Dental Biomaterials North America, 2018 (Market research).
- 2 Millennium Research Group, Dental Biomaterials Europe, 2016 (Market research).
- 3 ISO 13485 certificate, research and development
- 4 ISO 9001 certificate, multi site quality management
- 5 Jung R. et al., Clin Oral Implants Res. 2013 Oct;24(10):1065-73. (Clinical study)
- 6 Buser D et al., J Periodontol. 2013 Nov;84(11):1517-27. (Clinical study)
- 7 Jensen S.S. et al., J Periodontol. 2014 Nov;85(11):1549-56. (Clinical study)
- 8 Mordenfeld A. et al., Clin Oral Implants Res. 2010 Sep;21(9):961-70. (Clinical study)
- 9 Sanz M, et al. J Clin Periodontol. 2009 Oct;36(10):868-76. (Clinical study)
- 10 McGuire MK & Scheyer ET. J Periodontol. 2010 Aug;81(8):1108-17. (Clinical study)
- 11 NCBI Pubmed, July 2019, Search term: Bio-Oss OR Bio-Gide OR Mucograft OR Fibro-Gide, PubMed Filter "Species: Humans" (830 hits) or "Other animals" (665 hits) (Market research).
- 12 Schmitt CM. et al. Clin Oral Implants Res. 2016 Nov;27(11):e125-e133. (Clinical study)
- 13 Lorenz J, et al. Clin Oral Investig. 2017 May;21(4):1103-1111. (Clinical study)
- 14 Urban IA, et al. Int J Periodontics Restorative Dent. 2015 May-Jun;35(3):345-53. (Clinical study)
- 15 Cardaropoli D, et al. J Periodontol. 2012 Mar;83(3):321-8. (Clinical study)
- 16 Del Pizzo M, et al. J Clin Periodontol. 2002 Sep;29(9):848-54. (Clinical study)
- 17 Soileau KM & Brannon RB. J Periodontol. 2006 Jul;77(7):1267-73. (Clinical study)
- 18 Griffin TJ, et al. J Periodontol. 2006 Dec;77(12):2070-9. (Clinical study)
- 19 Schrott AR, et al.: Clin Oral Implants Res 2009; 20(10): 1170-77. (Clinical study)
- 20 Chung DMT, et al.: J Periodontol 2006; 77(8): 1410-20. (Clinical study)
- 21 Schwarz F, et al.: J Periodontol 2018; 89 Suppl 1: S267-S290. (Review)
- 22 Greenstein G, Cavallaro J: Compend Contin Educ Dent 2011; 32(8): 24-31. (Review)
- 23 Based on the number of units currently sold. Data on file (Wolhusen, Switzerland)