

What are Geistlich Bio-Oss® and Geistlich Bio-Gide®?

Geistlich Bio-Oss® has been the **most commonly used product** for bone regeneration for over twenty years. It is a natural, thoroughly purified material which is very similar to human bone. In contrast with donor bone or synthetic products, Geistlich Bio-Oss® is converted into human bone slowly over time, in turn ensuring the **long-term volume stability** so important in bone augmentation. Geistlich Bio-Oss® Collagen is a mixture of Geistlich Bio-Oss® with 10% collagen. This product modification facilitate application and handling.

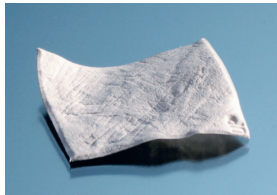
Geistlich Bio-Gide®, first used clinically in 1996, is the **most documented resorbable membrane for dental bone augmentation**. It achieves the balance between optimal barrier duration for **unhindered bone growth** and **good wound healing**. Geistlich Bio-Gide® is decomposed by the body after healing through a natural process.

Over **4 million patients** worldwide have been treated with these most **scientifically proven top quality Swiss** materials. Hundreds of academic studies from countries all over the world have shown **durable, stable results** with these natural biomaterials. The **safety** of the product has been assessed by international and national authorities. The success story of the Swiss manufacturer is based on 160 years of focus on top quality.

A sustainable result for a long lasting smile.



Geistlich Bio-Oss®



Geistlich Bio-Gide®



Geistlich Bio-Oss® Collagen

A few tips for the period after treatment:

- > After operation, **cold pads** help to avoid swelling.
- > In case of pain your dentist will prescribe suitable medication.
- > In the first weeks you should **avoid brushing** the operation site and an **antibacterial mouthwash** should be used. A toothbrush with especially soft bristles can usually be used for cleaning the teeth in the vicinity of the wound.
- > **Avoid coffee, alcohol and cigarettes** for 2–3 days after the procedure. This way you reduce the risk of secondary bleeding and help improve healing.
- > Heavy smoking and inadequate oral hygiene can significantly reduce the success of the therapy.
- > You should definitely **keep your follow-up** appointment with your dentist even if healing is proceeding without problems.



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Tooth out – what’s next?

Patient Information | Tissue Maintenance After Tooth Removal

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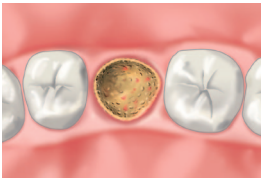
LEADING REGENERATION

What happens after tooth removal?

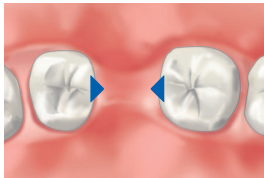
The bone recedes in the weeks and months after tooth removal. This might cause some of the following problems:

- > **Aesthetic impairment:** The gum follows the receding bone leading to visible blemishes.
- > **Hygiene problems:** If you wear a bridge, the resulting gaps can make it more difficult, or impossible to clean.
- > **Difficulty with articulation:** The change in the mouth affects articulation.
- > **Expensive and complicated follow-up treatments:** The loss of bone has to be compensated later with laborious bone and soft-tissue augmentation.

PROBLEM	The bone surrounding the tooth recedes in the weeks and months after removal.
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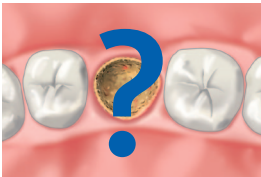
Immediately after tooth removal.



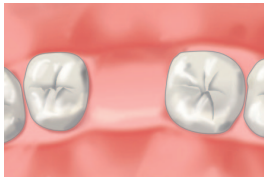
Visible bone loss within a short period of time.



This can result in a loss of stability.



How to prevent this...

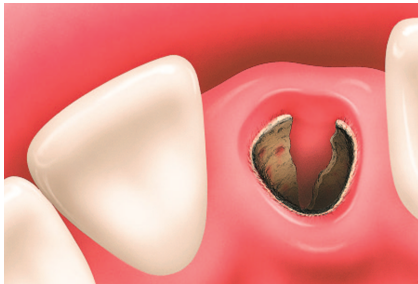


...in order to maintain the full width and height...



...to support both teeth and surrounding tissue?

SOLUTION	The problems described above can be often avoided or limited given the right regenerative measures. Your dentist will advise you on treatment individually adapted for you.
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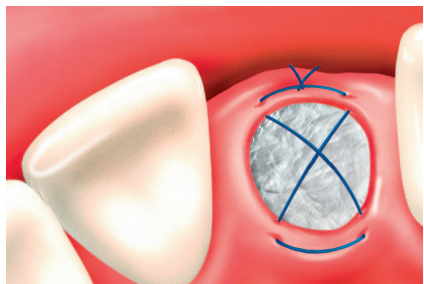
Socket with defect of the bony wall.



Geistlich Bio-Oss® Collagen and Geistlich Bio-Gide® membrane are being placed.



Geistlich Bio-Oss® Collagen maintains the bone volume and Geistlich Bio-Gide® supports wound healing.



Fixation, for example with open cross suture.

IMPORTANT: It is essential to maintain tissue volume and stability permanently through the use of Geistlich Bio-Oss® and Geistlich Bio-Gide®.

Preserving bone and soft-tissue volume enables the subsequent steps:

- > **Placing an implant**
- > **Bridge**
- > **Continuing treatment at a later time**

Why is bone preservation important?

Your bone remains stable	the subsequent treatment gives you time flexibility
The gum condition is maintained	your smile stays attractive
Further treatment is easier	you save time and money in the long term
Timely preventive measure	you may avoid complicated procedures in the future



Case 1: without preventive actions.
(Dr. Shakibaie-M., Tehran, Iran, DM 2009 (2); 24–33)



Case 2: treatment with preventive actions.
(Dr. Shakibaie-M., Tehran, Iran)

