

PATIENT INFORMATION

# NOVAMag<sup>®</sup>

RESORBABLE MAGNESIUM

biomaterials



**bone &  
tissue**  
regeneration

At botiss

we strive to put  
**the patient first.**

We provide a broad portfolio of products to meet your specific needs because everyone is different.

Our goal is to strengthen our doctors with a comprehensive range of product options to give the best possible treatment for you.

A young woman with dark, curly hair is laughing joyfully, looking upwards and to the right. She is wearing a white tank top. The background is a plain, light-colored wall.

**WE WANT YOU  
TO LAUGH,  
SMILE  
AND  
ENJOY LIFE.**

In cases of bone loss, it is sometimes necessary to perform a bone augmentation procedure for saving a tooth or placing an implant to give you back your smile. Made from magnesium, the NOVAMag® product line is composed of no animal products and therefore provides an alternative for patients with different lifestyles in a global setting.

### NOVAMag® product line

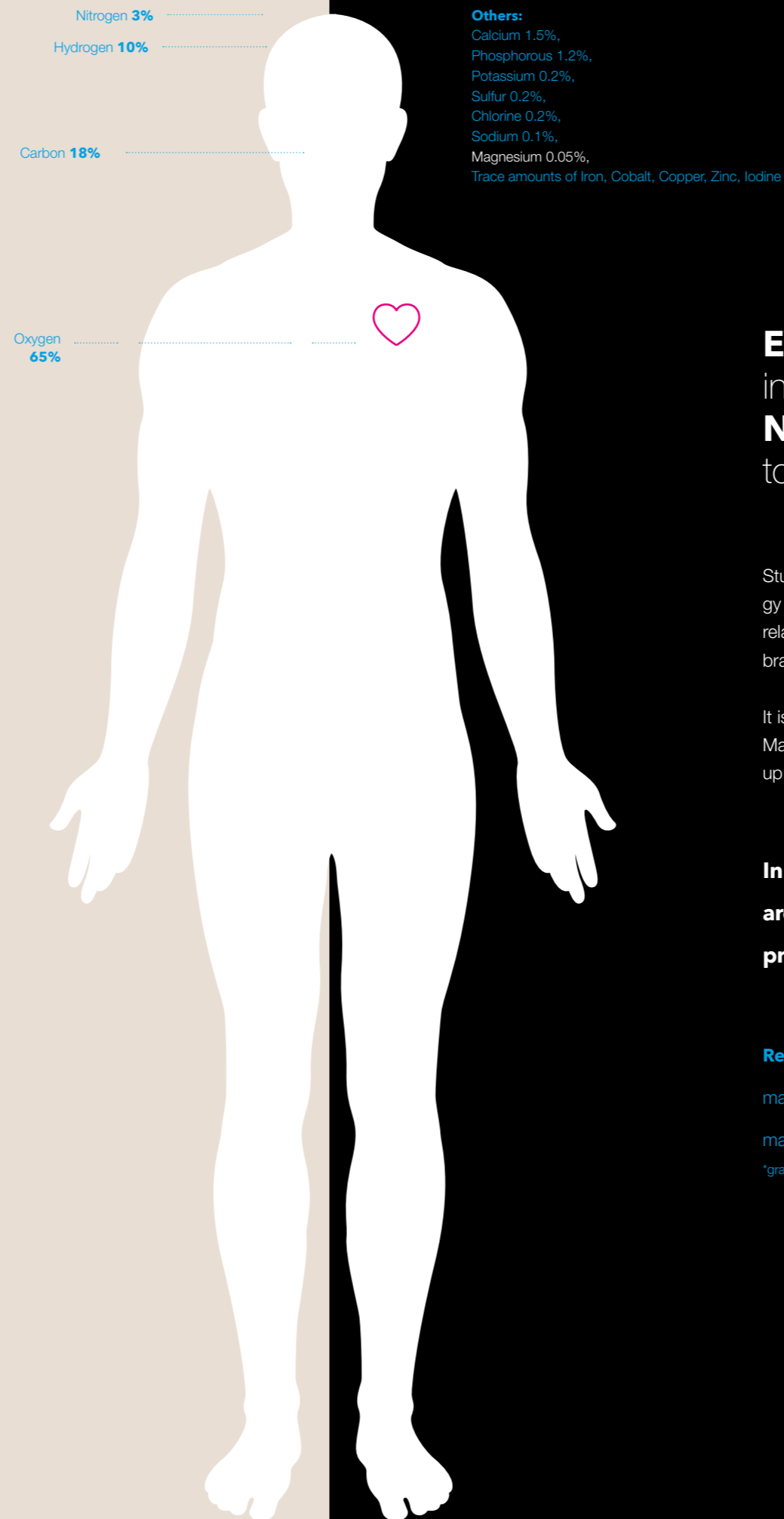
NOVAMag® is a unique product in dentistry. It is exceptional as it is a resorbable metal. That means that it is a very strong material which helps the body heal, but at the same time, will disappear once it is no longer required. The material is broken down and either incorporated in the body or excreted via the urine.

**Your advantage is that the NOVAMag® products do not need to be removed in a surgical procedure resulting in lower morbidity and lower surgery time.**

# MAGNESIUM – THE HEALTHY CHOICE

THE NOVAMAG® PRODUCT LINE  
IS MADE FROM MAGNESIUM  
TO CREATE STRONG YET RESORBABLE  
DENTAL PRODUCTS.

Not only is magnesium the perfect material for repairing bone, it is also a crucial element for maintaining a healthy body. That is why many people choose to take magnesium supplements to support their daily lives.



**EVERY CELL**  
in the human body  
**NEEDS MAGNESIUM**  
to be able to function.

Studies have shown that it plays an important role in the creation of energy for your cells, helps to create proteins, is used for the contraction and relaxation of muscles, and is involved with the signals produced by your brain and nervous system.

It is a go-to mineral for athletes looking to recover from a heavy workout. Magnesium helps to remove lactic acid from your muscles, which builds up during exercise and can cause pain.

**In summary, magnesium is a vital element that people are choosing to supplement in their daily lives to provide a broad range of benefits.**

|  |                   |
|--|-------------------|
| <b>Recommended daily intake (RDI):</b> | <b>300-350 mg</b> |
| magnesium content NOVAMag® membrane*   | 60-330 mg         |
| magnesium content NOVAMag® screw*      | 17-38 mg          |

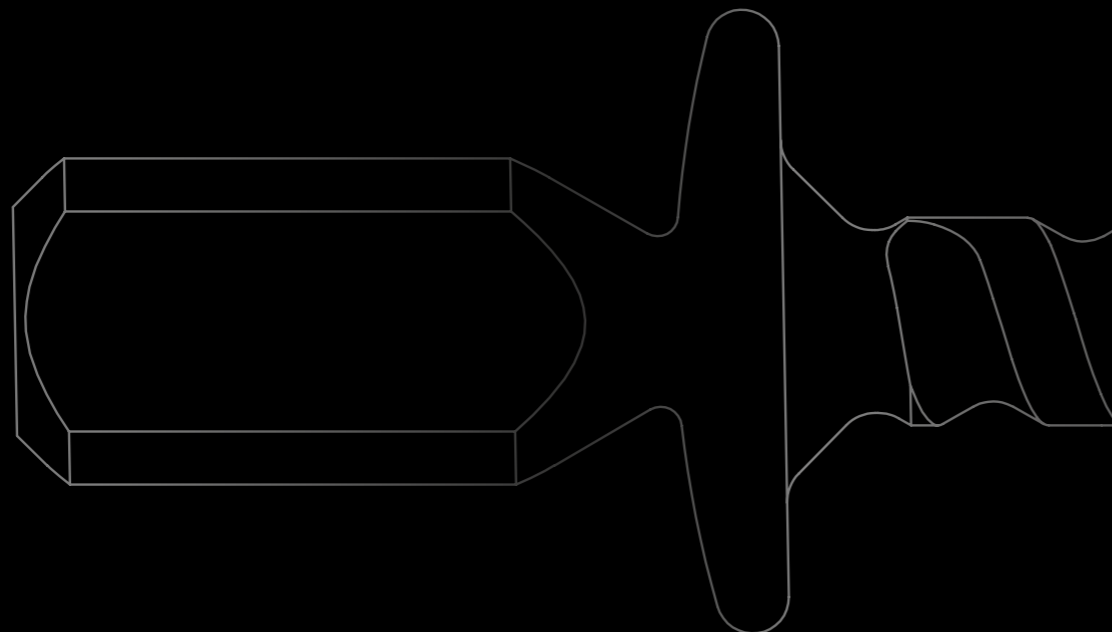
\*gradually released over several weeks to months

# NOVAMag<sup>®</sup> — made by the stars

Released by stars during supernova explosions as well as naturally occurring on Earth, magnesium is a material with an ideal mix of properties suited for tissue regeneration.

In a revolutionary leap forward in the world of regenerative dentistry, botiss has brought a break-through technology into the field of dentistry.

**No additional surgeries required  
to remove the NOVAMag<sup>®</sup> products**



## NOVAMag<sup>®</sup> membrane

**The NOVAMag<sup>®</sup> membrane is designed to treat a range of different bone augmentation procedures and offers plenty of benefits for its use:**

The NOVAMag<sup>®</sup> membrane is made from magnesium, which means that it is completely resorbable and does not require a second surgery for its removal.

Unlike other resorbable membranes, the NOVAMag<sup>®</sup> membrane is strong and self-supporting, enabling the membrane to hold its shape and provide space for new bone to grow.



## NOVAMag<sup>®</sup> fixation screw

**The NOVAMag<sup>®</sup> fixation screw is used for securing membranes, such as the NOVAMag<sup>®</sup> membrane, as well as bone blocks used in some augmentation procedures.** It too shares many of the same benefits as the NOVAMag<sup>®</sup> membrane:

The NOVAMag<sup>®</sup> fixation screw is made from magnesium, which means that it is completely resorbable and does not require a second surgery for its removal, unlike the most common alternative fixation screws that are made from titanium.

Due to its metallic properties, the NOVAMag<sup>®</sup> fixation screw is strong, enabling it to secure membranes and bone blocks whilst new bone is grown.



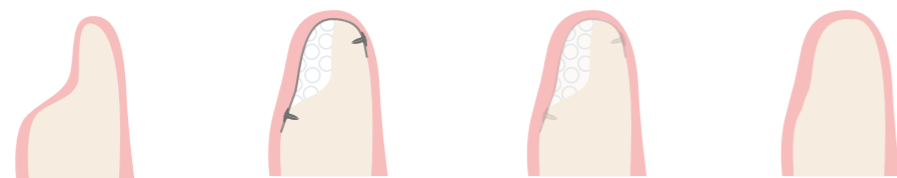
# WHAT TO EXPECT

## FROM THE TREATMENT PROCEDURE.

**YOU HAVE BEEN DIAGNOSED WITH BONE LOSS AND YOUR DENTIST OR DENTAL SURGEON WILL PERFORM A BONE AUGMENTATION PROCEDURE ON YOU.**

Depending on your requirements, bone augmentation will be performed with the help of a bone grafting material and the NOVAMag® product line, possibly followed by the insertion of a dental implant. Dental implants will either be inserted in one or two procedures, reliant upon the amount of bone to be augmented.

For all cases, bone will be reconstructed using a bone grafting material that will be used to build new bone. The NOVAMag® membrane and / or NOVAMag® fixation screw will be used to stabilize and protect the bone graft, providing the best results for new bone growth. For more detailed information, please discuss with your dentist or dental surgeon.



Due to disease or after a tooth is extracted, bone volume can be lost, which creates a bony defect.

Bone augmentation materials are placed within the bony defect and are used to promote new bone growth. The NOVAMag® membrane and fixation screw are used to stabilize and protect the augmented site.

During the healing process, the NOVAMag® membrane and fixation screws are gradually degraded and replaced by the body's own tissue as new bone grows in the bony defect site.









## POST-SURGICAL TREATMENT

Your dentist or dental surgeon will provide you with a post-operative treatment plan to suit your needs.

- After surgery it is normal to feel pain and your dentist will prescribe you pain-killers.
- Due to the magnesium resorption process, it can occur that you will feel a slight tingly feeling at the wound site.

**FOR DETAILED ADVICE SPECIFIC FOR YOU, PLEASE CONSULT YOUR DENTIST OR DENTAL SURGEON, HOWEVER, HERE IS SOME GENERAL GUIDANCE:**

-  Swelling can be treated with a damp cold compress to the affected area.
-  For the first weeks you will have to clean the wound area with an antibacterial mouthwash. After this time, you can clean the area with a specially prescribed toothbrush with soft bristles.
-  Avoid sports and physical activities that risk damaging the wound.
-  Do not smoke as it has been proven to harm the healing process.
-  Do not drink coffee or alcohol for the first 2-3 day after surgery. This will reduce the risk of post-operative bleeding and improve wound healing.
-  Avoid acid food and drinks (e.g. cola, orange juice, lemon drops) as it negatively impact the NOVAMag® membrane.

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Innovation.  
Regeneration.  
Aesthetics.

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Driving dental **innovation.**