More than a beautiful smile.
A new quality of life with dental implants.
Think of tooth loss and the first thing that comes to mind may be an unattractive appearance. It’s true that a missing tooth or teeth can take away from the smile that’s really you. But tooth loss can have many negative consequences.

- Bone loss
- Shifting and drifting teeth
- Bite changes
- Difficulty chewing and speaking
- Wearing down of remaining natural teeth
- Changes in the jaw joint

Tooth roots transfer biting forces to the jaw. This keeps the bone healthy and intact.

When the root is missing, the lack of applied force to the bone may cause bone loss.
The best way to replace a tooth is to mimic it as closely as possible. Straumann dental implants do just that.

Straumann dental implants replace the entire tooth structure: the root and the crown. This “close to nature” approach has important benefits:

- Feels and looks like a natural tooth
- Helps prevent and minimize bone loss
- Helps preserve surrounding teeth
- Improves appearance

The beautiful nature of dental implants

**Natural tooth**
- Natural tooth crown with enamel outside and dentin inside
- Periodontal ligament connects the tooth root to the bone

**Dental implant**
- **ARTIFICIAL CROWN**: A natural-looking porcelain crown is made to match your natural teeth
- **IMPLANT ABUTMENT**: Serves as the connector between the crown and implant
- **DENTAL IMPLANT**: Bone grows and bonds to the surface of the implant to hold it securely in place
Before dental implants, the only way to replace a missing tooth was with a tooth-supported bridge.

With a bridge, healthy neighboring teeth are damaged because they must be ground down to support a bridge. The bridge does not replace the tooth root. Without the root to transfer chewing forces to the jaw, bone may be lost.

1. A tooth is missing
2. Neighboring teeth must be ground down to support a bridge – resulting in loss of natural tooth substance
3. A bridge placed on to the ground-down teeth does not transmit chewing forces and bone loss may occur
4. If either of the anchoring teeth are lost, an additional healthy tooth must be ground down and a longer bridge put into place

Conventional bridges vs. dental implants
The dental implant advantage

THE IMPLANT SOLUTION:

The dental implant replaces the root of the original tooth, while the neighboring teeth remain intact without having to be ground down. A dental implant also proves to be more cost-effective over time\(^1,2\) and provides greater patient satisfaction compared to conventional restorations.\(^3\)

TOOTH REPLACEMENT WITH A DENTAL IMPLANT AND ARTIFICIAL CROWN

1. The implant replaces the tooth root to support the bone
2. An implant abutment connects the implant to the crown
3. The implant provides a stable, natural-looking replacement and neighboring teeth remain intact
Single or multiple tooth replacement.

Advantages of dental implants.

- Helps preserve bone
- Keeps other teeth from shifting
- Provides a more permanent solution
- No need to grind down surrounding healthy teeth
- Can provide stability and comfort
- Same home care as natural teeth
- Looks, feels and functions like natural teeth

1. Replacement of an individual tooth in the front region with an implant-supported crown

2. Replacement of an individual tooth in the side region with an implant-supported crown

3. Replacement of several teeth in the front region using an implant-supported bridge

4. If either of the anchoring teeth are lost, an additional healthy tooth must be ground down and a longer bridge put into place
Complete tooth replacement.
Advantages of implant-supported full dentures.

**STRAUMAN® FULL ARCH SOLUTIONS**
- Helps preserve bone
- Helps maintain the integrity of facial structure
- Eliminates the need for adhesives
- Eliminates pressure spots and sores caused by traditional dentures
- May help you speak more clearly
- Restores chewing ability

**FIXED DENTURE OPTIONS – STRAUMAN® PRO ARCH**
1. Non-removable bridge supported by 4 to 6 implants (6 shown)
2. Non-removable denture supported by 4 implants

**REMOVABLE DENTURE OPTIONS**
3. Removable denture supported by 4 implants
4. Removable implant-retained denture

Existing dentures may be able to be retrofitted for use with dental implants. Ask your dentist.
The journey towards a new smile: The implant procedure.

**Diagnosis and planning:**
Your implant team will plan your case and discuss treatment options with you.

**Implant placement:**
Your implant specialist will place the implant under local or general anesthesia.

**Temporary restoration:**
If the implant is in a visible area, a temporary restoration may be placed while the site heals.

**Healing phase:**
The bone around the implant grows and integrates with the implant surface during the healing phase, which will last between 3 weeks and a few months depending on the type of implant placed (see healing time examples illustrated on “Benefits of Straumann” tab).

**Placement of implant abutment:**
When healing is complete, your dentist will place the final abutment, a small piece that connects the implant to the crown. An impression of the implant site will be taken to create the crown, bridge or denture.

**Final crown:**
The final crown is returned from the lab and will be placed by your dentist.
Dental implant placement for patients with insufficient bone volume.

STRAUMANN BONE GRAFT SOLUTIONS

Some patients may not have enough bone to support a dental implant. In this case, a “bone grafting” procedure before or at the time of implant-placement can help your body build new bone.

Reasons for bone loss include:
- Tooth loss
- Gum disease (periodontitis)
- Trauma to the jaw bone

What is “bone graft” material?
Bone graft material is the substance used to build the bone volume necessary for implant placement by helping to regenerate vital bone. Straumann provides effective bone grafting materials that are tested, trusted and designed to deliver excellent results.
When deciding between dental implants and conventional restorations, studies suggest that implants may be less expensive in the long term.¹ ²

- Dental implants are a cost-effective alternative to conventional restorations and improve oral health-related quality of life.¹
- Especially for single-tooth replacement, an implant is a cost-effective treatment option in comparison to a conventional three-unit bridge.¹ ²
- For the replacement of multiple teeth, dental implants are associated with higher initial costs, but improvements in oral health-related quality of life compared with other treatment options.¹

**Graph:** After 7 years, the costs for a single-tooth dental implant restoration pay off and the long-term maintenance costs are lower than for a conventional three-unit bridge.²
Benefits of Straumann® dental implants

Just as there is a choice in tooth replacement, there is a choice in implant systems. Your dentist trusts Straumann as a high-quality choice that provides many advantages:

- A worldwide leader in dental implants
- Over 35 years of clinical excellence
- Scientifically proven with excellent long-term implant survival* rates ranging from 95% – 99%\(^4,5,6\)
- A reputation for high quality with more than 14 million implants sold worldwide
- A trusted brand in over 70 countries
- Advanced Roxolid® implant material and SLActive® implant surface technology

* “Survival rate” means the implant is still in a patient’s mouth.

EXAMPLE OF TREATMENT TIMELINE WITH STRAUMANN IMPLANTS

<table>
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<th>SLActive® implant surface</th>
<th>0</th>
<th>2</th>
<th>4</th>
<th>6</th>
<th>8</th>
<th>Final Restoration</th>
</tr>
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<tbody>
<tr>
<td>Healing Time (implant is bonding with the jaw bone)</td>
<td>3 - 4 weeks</td>
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Why gum disease matters

Gum disease destroys the soft tissue and bone that support your teeth. Bacteria can collect between the teeth and gums, causing plaque to form. When plaque is not removed with regular brushing and flossing, gums can become reddened, swollen and may bleed. Inflamed gums can destroy the ligament and other tissues that attach your teeth to the jaw, causing bone loss.

Eventually, teeth lose their anchor, become loose, and may have to be removed

1. Tooth with healthy surrounding tissues
2. Advanced gum disease with loss of tooth support resulting in a deep periodontal pocket – where gum tissue and bone are destroyed
Reversing the effects of gum disease

with Emdogain®

Emdogain is a unique treatment that helps reverse the effects of gum disease and save teeth. Emdogain uses a group of proteins called enamel matrix proteins, which your body naturally produces, to regenerate lost tissue and bone, and reverse the effects of gum disease.

When Emdogain is applied to the tooth root, your body recognizes these proteins and the process of forming those fibers that anchor your teeth begins to help restore your lost periodontal tissue.

Scientifically documented and researched, over two million patients worldwide have been treated with Emdogain to regenerate their loss of dental tissue.

Before Emdogain

3 months after treatment with Emdogain.
Photos: Prof. Zucchelli, Bologna University
The Emdogain® treatment procedure

After anesthetic is applied, the defect is exposed by a surgical procedure.

Your dentist removes the hard and soft deposits, and cleans the root surface.

Emdogain is then applied to the root surface and the site is sutured.

1. Application of Emdogain
2. Suturing of the site
Emdogain® is proven safe and effective.

There are good reasons why Emdogain is a trusted choice. Emdogain treatment results have been shown to last. More than 500 scientific publications have evaluated Straumann Emdogain in stimulating the formation of new gum tissue. And it has been used in more than two million patients worldwide.

If you’re faced with gum disease, there is good news. Your smile can get a second chance with Emdogain. Talk to your doctor about whether Emdogain is the right treatment for you.
More than Swiss quality.  
A sense of trust.

**Few companies have so much to offer:**
- Over 35 years of clinical evidence
- More than 14 million implants sold worldwide
- Swiss quality and precision
- A trusted brand in over 70 countries
- Advanced Roxolid® implant material and SLActive® implant surface technology

[www.straumann.us/patients](http://www.straumann.us/patients)

Every surgical procedure carries potential risks. You should always consult with a dental professional prior to treatment. Potential risk factors may vary depending on medical or other conditions of each patient.

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3 Riegl Study results of 2009, Germany, with over 10,000 patients.
7 Based on number of syringes sold.