A Real Breakthrough in Implantology.

Roxolid® SLActive® – Setting New Standards, Reducing Invasiveness
Excellent performance scientifically proven.

Roxolid®

is a unique dental implant material specifically designed for the use in dental implantology. The innovative metal alloy consists of titanium and zirconium. Roxolid® SLActive® Implants feature our hydrophilic SLActive® surface. Thus, they combine high mechanical strength with excellent osseointegration properties, which has been shown in numerous studies.

The growing scientific evidence reinforces that Roxolid® SLActive® is Straumann’s best material-surface combination.

Mechanical tests have demonstrated a higher tensile strength of Roxolid®² compared to annealed¹ and cold-worked² titanium.

Preclinical studies in dogs showed that SLActive® Implants promote the production of significantly greater and more mature bone than SLA®. This outcome suggests that SLActive® may have a high potential to support osseointegration in dehiscence-type defects³,⁴.

Histological evaluation of the defect around SLActive® and SLA® Implants after 12 weeks. On SLActive® there is a complete filling of the defect with new bone (80% BIC), while on SLA® the new bone formation is only in the most apical part of the defect (5% BIC).
Roxolid® is one of the most significant advances in the last 20 years

Dr. Paul A. Fugazzotto (USA)

The excellent osseointegration process with SLActive® has been demonstrated histologically for the first time in humans.

The table below shows the percentage of BIC (Bone Implant Contact) after 7, 14, 28 and 42 days:

<table>
<thead>
<tr>
<th></th>
<th>7 days</th>
<th>14 days</th>
<th>28 Days</th>
<th>42 days</th>
</tr>
</thead>
<tbody>
<tr>
<td>SLActive®</td>
<td>6.14 (10.63)</td>
<td>14.80 (15.37)</td>
<td>48.34 (14.91)</td>
<td>61.62 (4.98)</td>
</tr>
<tr>
<td>SLA®</td>
<td>6.47 (6.02)</td>
<td>12.19 (10.62)</td>
<td>32.38 (16.21)</td>
<td>61.53 (5.79)</td>
</tr>
</tbody>
</table>

Table 1: Percentage of BIC after 7, 14, 28 and 42 days

A clinical multi-center study has demonstrated high survival (98.8%) and success rates of small-diameter implants after 3 years.

Demographic Trend Requires New Solutions.

The demographic trend clearly presents a considerable challenge to dental professionals:
As people’s life expectancy is increasing, there is a huge need for long-lasting products of highest quality. In addition, the share of the elderly in the population is increasing. As a consequence, when it comes to dental implant treatment, dental professionals are confronted with:

- a rising number of compromised patients
- higher risk factors and
- more cases with limited bone availability and quality

The demand for products that can help reduce the treatment complexity and the need for invasive grafting procedures is high.

What are the benefits of a less invasive treatment?
In cases where invasive grafting procedures can be avoided, the benefits are numerous:

* Compared to a procedure with GBR
A Real Breakthrough in Implantology.

Roxolid® SLActive® – Setting New Standards, Reducing invasiveness

Greater confidence with Roxolid® SLActive®
Roxolid® SLActive® is Straumann’s best material-surface combination linking outstanding mechanical strength with excellent osseointegration properties.

Eliminate invasive grafting procedures
Roxolid® SLActive® Implants allow you to choose smaller sized implants if a GBR procedure can be avoided. As a consequence, dental implant treatment has the potential to become less invasive and less complex.

Increase patient acceptance
Treating patients without invasive grafting procedures, gives you the opportunity to offer your patients a less traumatic, faster treatment at a lower cost. Such dental implant treatment will be more appealing to your patients; as a result more patients might seek treatment.

A Broadened Portfolio – New Possibilities

To ensure a wider accessibility of Roxolid® SLActive® Implants, they are now available:
- in all diameters
- in all lengths
- as 4 mm Short Implant Line
- with the new Loxim™ Transfer Piece

<table>
<thead>
<tr>
<th>S</th>
<th>SP</th>
<th>NNC</th>
<th>4SI</th>
<th>TE</th>
<th>BL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Straumann® Standard Implant</td>
<td>Straumann® Standard Plus Implant</td>
<td>Straumann® Narrow Neck CrossFit® Implant</td>
<td>Straumann® 4 mm Short Implant</td>
<td>Straumann® Tapered Effect Implant</td>
<td>Straumann® Bone Level Implant</td>
</tr>
</tbody>
</table>
The Straumann® Roxolid® SLActive® Implants will be delivered with the new Loxim™ Transfer Piece, which is connected to the implant with a snap-in mounting. Its new design offers various new features and benefits:

**Features**
- Snap-in mounting...
- Blue color...
- Compact dimensions...
- Height markings...
- Pre-determined breaking point...

**Benefits**
- ...for easy handling without counter-maneuvering
- ...for high visibility
- ...for easy access
- ...for correct implant placement
- ...for protecting the inner implant configuration

Compared to the screw-retained transfer piece, the Loxim™ offers you many advantages:

**Easier handling with the Loxim™ Transfer Piece**

<table>
<thead>
<tr>
<th>Old</th>
<th>New</th>
</tr>
</thead>
<tbody>
<tr>
<td>Screw-retained transfer piece</td>
<td>Loxim™ Transfer Piece</td>
</tr>
<tr>
<td>No holding key</td>
<td>No holding key</td>
</tr>
<tr>
<td>No counter-maneuvering</td>
<td>No counter-maneuvering</td>
</tr>
<tr>
<td>Detaches with adapter</td>
<td>Detaches with adapter</td>
</tr>
</tbody>
</table>
Vertical space is no longer a limitation.

The new Straumann® 4mm Short Implant ...

... is Straumann's shortest Roxolid® SLActive® Implant and the shortest Tissue Level implant on the market. It is perfectly suitable for partially and fully edentulous patients with limited vertical bone availability in the posterior region.

Thus, the 4mm Short Implant offers you additional treatment options and the possibility to treat patients without complex vertical bone augmentations.

- **Features**
  - Internal synOcta® connection ...
  - Well-known Standard Plus Implant design ...
  - Bone Level thread design ...
  - Standard Straumann surgical procedure ...

- **Benefits**
  - ... ensures compatibility with the existing Tissue Level prosthetic portfolio
  - ... for easy oral hygiene in the posterior region
  - ... helps to increase primary stability
  - ... requires no additional instruments

5-year success story with 4 mm Short Implants

5-year data of a multi-center study with the 4mm Short Implant with fixed partial dentures in severely resorbed posterior mandibles¹ indicate:

- a high survival rate of 94% with 4 mm Short Implants¹ and
- a mean marginal bone loss of 0.5 mm after 5 years

Conclusion: Fixed partial dentures can be supported by 4 mm Short Implants in severely atrophic mandibles without the need of a bone augmentation¹.

---

¹ Slotte Christer et al, Four-mm implants supporting fixed partial dentures in the posterior mandible. 5-year results from a multicenter study. Presented at the 20th Annual Scientific Meeting of the European Association of Osseointegration, 10-13 October 2012, Copenhagen, Denmark.
The New Standard For Less Invasive Treatment Procedures.

Roxolid® SLActive® Implants allow you to choose smaller diameter implants in order to avoid invasive grafting procedures.

Roxolid® SLActive® 4 mm Short Implants allow you to treat your patients with severely atrophied posterior mandibles without complex vertical bone augmentations.

Roxolid® SLActive® 4 mm Short Implants may reduce the invasiveness and the complexity of implant cases.