More than solid – Roxolid®.
Reducing invasiveness.
More than a less invasive solution.
Increasing patient acceptance.

Dental implants are a well-established and predictable treatment option to replace missing teeth. Nevertheless, many patients are reluctant to accept an implant treatment and are especially apprehensive if they require a bone augmentation procedure. Therefore, clinicians and patients are looking for products that reduce the invasiveness of the procedure or increase the speed of osseointegration.¹

AVOIDING INVASIVE GRAFTING PROCEDURES OFFERS YOU AND YOUR PATIENTS NUMEROUS BENEFITS:

**YOUR BENEFITS²**
- Shorter treatment time
- Less complexity
- Potential to gain more patients for implant treatment

**YOUR PATIENTS’ BENEFITS²**
- Shorter treatment time
- Faster healing and less pain
- Less operative trauma and post-operative discomfort
- Less expensive

Straumann® Roxolid® is the new standard for less invasive treatment procedures!⁹
Roxolid® is a groundbreaking material specifically designed for the use in dental implantology. The titanium-zirconium alloy is stronger than pure titanium\textsuperscript{3,4} and has excellent osseointegration properties\textsuperscript{5,6,7}. This combination of properties is unique in the market – there is no other metallic alloy which unifies high mechanical strength and osteoconductivity.

Mechanical tests have proven the excellent mechanical properties of Roxolid\textsuperscript{®3,4}. 

More than solid. 

Roxolid®.
More than smaller implants. More treatment options.

Thanks to their outstanding mechanical and biological properties, Roxolid® Implants offer more treatment options than many other small-diameter implants. In comparison to Straumann® Titanium Ø 3.3 mm Implants, Roxolid® Ø 3.3 mm Implants allow you to cover the following indications:

- **Single-tooth restorations in the anterior and premolar region**  
  - No limitation to lateral incisors in the maxilla or central and lateral incisors in the mandible

- **Bridges on two Roxolid® Ø 3.3 mm Implants**  
  - No combination with larger implant needed  
  - No splinting of suprastructure needed

- **Full denture on two Roxolid® Ø 3.3 mm Implants**  
  - No need for more than 2 implants in the mandible
More than preserving bone. Enjoying less invasive procedures.

Thanks to their outstanding mechanical and biological properties, Roxolid® Implants may allow you to use smaller implant diameters with the same clinical performance as shown by titanium regular-diameter implants\(^8\). Smaller-sized implants have the potential to preserve peri-implant structures and avoid invasive bone grafting procedures.

USE OF SMALLER-SIZED IMPLANTS ALLOWS TO KEEP VITAL STRUCTURES AND VASCULARIZATION

A randomized controlled clinical study has demonstrated that Roxolid® Ø 3.3 mm Implants do not perform differently from Titanium Ø 4.1 mm Implants when used for anterior and premolar single crowns\(^\)\. 
REDUCED IMPLANT SIZE CAN ELIMINATE THE NEED FOR GBR PROCEDURES

Participants of a clinical non-interventional study stated that for 54% of the implants placed, a bone augmentation procedure could be avoided due to the use of Roxolid® Ø 3.3 mm Implants.

Increase patient acceptance of implant treatment by providing less invasive solutions with Straumann® Roxolid®.
The Roxolid® Implant portfolio comprises all Straumann implant lines, diameters and lengths. Straumann® Roxolid® Implants are available with the well-documented SLA® surface and the highly osteoconductive SLActive® surface. This gives you freedom of choice and allows you to offer your patients a solution that fulfills the specific requirements of each individual situation.

**ROXOLID® PORTFOLIO**

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S  Straumann® Standard Implant
SP Straumann® Standard Plus Implant
NNC Straumann® Standard Plus Narrow Neck CrossFit® Implant
SPS Straumann® Standard Plus Short Implant
TE Straumann® Tapered Effect Implant
BL Straumann® Bone Level Implant

More than stronger performance.  
More freedom of choice.
More than security. Peace of mind.

Roxolid® SLActive® Implants combine Straumann’s best material and surface technologies and offer additional benefits to Roxolid® SLA®.

THEY ARE DESIGNED TO DELIVER

- Higher security in all indications\textsuperscript{10,11}
- Predictable treatment success even in challenging cases\textsuperscript{12}
- Practice differentiation offering new treatment possibilities

Roxolid® SLActive® Implants are a perfect solution for both standard indications and challenging cases, i.e. limited bone volume, immediate loading, compromised healing, etc.

Preclinical studies in dogs showed that SLActive® Implants promote the production of significantly greater and more mature bone than SLA® Implants.

\[ \begin{array}{ll}
\text{SLActive®} & \text{SLA®} \\
80\% \text{ BIC after 12 weeks} & 5\% \text{ BIC after 12 weeks}
\end{array} \]

SLActive® may have a high potential to support osseointegration in dehiscence-type defects\textsuperscript{13}.\]
More than 4 mm.
A practice differentiator.

With the Straumann® Standard Plus Short Implant, vertical space is no longer a limitation.

- **Shortest** screw-type implant with internal connection on the market provides you with additional treatment options.

- Perfectly suitable for the treatment of partially and fully edentulous patients with very limited vertical bone availability in the posterior region.

- Possibility to treat patients without complex vertical bone augmentations.

- 5-year clinical data showing a high survival rate of 94% and a mean marginal bone loss of 0.5 mm after 5 years\textsuperscript{14}. 
Roxolid® Implants allow you to choose smaller-diameter implants in order to avoid grafting procedures.

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

Roxolid® SLActive® Short Implants may reduce the invasiveness and the complexity of implant cases.
More than just a transfer piece.

Easy handling.

All Straumann® Roxolid® Implants are delivered with the new Loxim™ Transfer Piece, which is connected to the implant with a snap-in mounting. Its 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

- No Holding Key
- No counter-manuevering
- Detaches with Adapter
REFERENCES

1 Millenium Report, Dental Implants & Final Abutments, USA 2013
2 If a GBR procedure can be avoided
3 Norm ASTM F67 (states min. tensile strength of annealed titanium).
4 Data on file for Straumann cold-worked titanium and Roxolid® Implants.
14 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.
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