EDENTULOUS PATIENTS

Straumann® Edentulous Solutions

Straumann® Pro Arch

Tailored to fit. Designed to last.
Of the millions of people facing dental problems, there are no two cases the same. Everyone has different expectations, medical history, and needs. Straumann® Pro Arch is a tailored treatment solution for fixed, immediate, full-arch restorations.

**TREATMENT OPTIONS**
A variety of treatment options to address specific indications and different patient needs.¹⁻¹¹

**IMMEDIATE LOADING**
BLT¹⁻³ and BLX Implants designed for reliable primary stability and immediate loading.

**REDUCED INVASIVENESS**
Roxolid® enables the use of narrow⁴,⁷⁻¹²⁻¹⁶ and short implants, designed to preserve bone and avoid severe grafting.
Straumann® Pro Arch
Tailored to fit. Designed to last.

Straumann® Pro Arch is designed for dental professionals who want to differentiate themselves and deliver a life-changing treatment to their patients. With an immediate, esthetic, and reliable outcome that gives them back confidence and lasting quality of life.

Because there is no one-size-fits-all solution for restoring fully edentulous patients and reaching the desired outcome, Straumann® Pro Arch gives you surgical and prosthetic flexibility so that you can focus on individual patient needs and offer tailored fixed immediate restoration on four to six implants depending on your patient’s unique anatomical and clinical situation.⁶⁻²,⁶,⁹

COMPROMISED PATIENTS
Peace of mind with SLActive® even when treating compromised patients with diabetes or irradiated patients.⁶⁻⁹

RESTORATIVE FLEXIBILITY
Prosthetic portfolio addresses patient’s esthetic expectations within their financial resources.

PRACTICE GROWTH
Practice development and patient communication tools support your practice growth.
Flexible treatment options to address even challenging cases.

Straumann® Pro Arch is a winning combination of evidence-based technologies that allows you to differentiate your practice. With Roxolid® for strength,¹⁵ SLActive® for enhanced bone regeneration¹¹ and Emdogain® for faster healing,¹⁸ you can deliver high predictability and peace of mind even in challenging clinical situations.

STRAUMANN® PRO ARCH
TREATMENT HIGHLIGHTS

Broad range of implant options
Choose between the clinically proven Straumann® BLT tapered implant with excellent primary stability¹–³ or the new Straumann® BLX with Dynamic Bone Management and simplified drill protocol for confidence beyond immediacy. A broad implant range from 6 mm to 18 mm for most indications.

SLActive® for peace of mind when treating compromised patients
SLActive® enhances bone regeneration, reduces healing time and provides high success rates even in compromised patients with diabetes or irradiated patients, giving clinicians peace of mind when treating challenging indications.⁶–⁹

Reduced invasiveness with Roxolid®
Roxolid® allows the use of smaller-diameter implants, Ø 3.3 mm with the same reliable clinical performance as regular-diameter titanium implants.⁴,¹²–¹⁷ Less invasive procedures preserve bone and avoid severe grafting for increased patient acceptance.¹³
A WINNING COMBINATION THAT DIFFERENTIATES YOUR PRACTICE

<table>
<thead>
<tr>
<th>Bone situation</th>
<th>Sufficient bone availability</th>
<th>Insufficient posterior bone height availability</th>
<th>Insufficient posterior bone availability</th>
</tr>
</thead>
<tbody>
<tr>
<td>Treatment options</td>
<td>Six straight implants</td>
<td>Short implants in posterior region</td>
<td>Tilted posterior implants</td>
</tr>
<tr>
<td><strong>Straumann® portfolio highlights</strong></td>
<td>• The BLX 3.75 mm implant for all indications</td>
<td>• Narrow implants: BLT Ø 3.3 mm or BLX Ø 3.5 mm</td>
<td>• Short BLX 6 mm implants</td>
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<td></td>
<td>• Long 18 mm implants</td>
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**ITI general guidance and 6th consensus paper**
- Four is the minimum number of implants required to reliably support and retain the fixed full arch prosthesis
- Using more or less than five implants does not influence the final implant and prosthetic outcomes in both maxilla and mandible
- When conditions allow, implants should be positioned axially, and anterior and posterior distribution of implants should be maximized
- If anatomic limitations or prosthetic indications exist, the posterior implant can be tilted or use of narrow diameter implants can be considered to avoid augmentation
Excellence in immediacy.

BACKED BY CLINICAL EVIDENCE SUPPORTING IMMEDIACY

Straumann® BLT and BLX implant systems are designed to provide reliable primary stability for immediate loading and optional implant tilting to avoid extensive bone grafting.

**Straumann® Pro Arch Retrospective Study results**

- **1,903 Straumann® BLT implants** (1,144 in the maxilla and 759 in the mandible) have successfully been placed.
- **99.7% Loaded on the day of surgery**
- **98.1% Implant survival rate**

Straumann® Pro Arch BLT is proven and predictable in daily practice: 99.7% of 440 arches were loaded on the day of surgery. The overall implant survival rate was 98.1% after a median follow-up time of 18 months.
The immediate loading workflow enables an efficient protocol that leads to fewer surgical interventions and shorter treatment cycles for the patient compared to the conventional treatment protocol. If the patient meets the requirements, clinicians can place the new prosthesis on the day of the surgery. For the clinician, this means increased efficiency and profitability by reducing chair time and enhancing patient satisfaction compared to the conventional treatment protocol.

As only four to six implants are required for the fixation of the one-piece prosthesis and costly bone grafting procedures can be avoided, the treatment costs to the patient can be significantly reduced in comparison to conventional treatment.

"Immediate loading is a challenging treatment, but desired by many patients."

Dr. Frosecci, Italy

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**IMMEDIATE PROTOCOL FOR FULL-ARCH REHABILITATION IN COMPARISON TO CONVENTIONAL**

<table>
<thead>
<tr>
<th>Immediate*</th>
<th>Only one surgery: Implant and fixed temporary restoration placement in one visit.</th>
<th>Final prosthesis is placed: Patient returns to normal lifestyle usually after just 4–6 months</th>
</tr>
</thead>
<tbody>
<tr>
<td>Same day</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>Conventional*</td>
<td>Grafting: is performed to restore lacking bone or soft tissue.</td>
<td>Implant placement: Implant and fixed temporary restoration placement.</td>
</tr>
</tbody>
</table>

The patient can return to a normal lifestyle after just 4–6 months instead of 9 months.

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"Immediate, early, or conventional loading with one-piece, fixed interim prostheses have demonstrated high implant and prosthesis survival rates and can be recommended for the mandible and maxilla."

Straumann® Pro Arch with BLX
Confidence beyond Immediacy.

One system even for challenging cases and a broad range of implants from 6 mm to 18 mm. Straumann® BLX implant is designed for primary stability and offers you treatment flexibility so that you can offer edentulous patients a broad portfolio you can trust with clinically proven materials and technologies.

Broad range of implant options
Choose between 42 implant models: from 6 mm to 18 mm implant length and from Ø 3.5 mm to Ø 6.5 mm implant diameter.

Optimized thread design
Optimized shallow threads of the narrow Ø 3.5 mm and Ø 3.75 mm implants. Designed for soft bone, and hard bone applications.

Rounded angulated abutment
Designed to maximize space for soft tissue. Choice of gingival heights: from 3.5 mm–5.5 mm. 35 Ncm torque.

* Data on file for Straumann® VeloDrill™ and Twist Drill PRO
Simplified drill protocol

Less steps and flexible sequence with a new drill design for minimized heat generation.*

Ø 3.75 mm for all indications

Slim core and fully tapered implant design enabling bone-preserving protocols with a Ø 3.75 mm implant applicable for all indications.

One Connection

TorcFit™ hybrid internal conical connection, one connection from Ø 3.5 to Ø 6.5 mm, with strength for simplicity and efficiency.

Dynamic Bone Management

Straumann® BLX Implant features unique properties that enable enhanced control over insertion torque to achieve optimal primary stability and ensure confidence in immediate protocols.
Straumann® Pro Arch with BLT Versatility and predictability.

The Straumann® Bone Level Tapered (BLT) Implant delivers proven reliable primary stability.¹⁻³ BLT is a powerful combination of Roxolid®, SLA® and SLActive®, Bone Control Design™, CrossFit® connection, prosthetic diversity, and an apically tapered design.

The tapered form compresses the underprepared osteotomy and is designed to let you effectively master the challenges of full-arch rehabilitation.

Primary stability
Apically tapered design of the Straumann® Bone Level Tapered Implant provides excellent primary stability.¹⁻³

Screw-retained abutments
- Abutment angulations of 17° and 30° allow overcoming implant angulations
- Rounded for emergence profile
- Gingival heights from 1.5 mm to 3.5 for straight abutments and 2.5 mm (17°)/3.5 mm (30°) to 5.5 mm for angulated abutments
Bone Control Design™
- Optimized crestal bone preservation
- Respects the biological distance/width and microgap control
- Optimal position of smooth and rough surface interface
- Biomechanical implant design and implant surface osteoconductivity

CrossFit® connection
- Self-guiding internal prosthetic connection
- Easier handling and confidence in component positioning
- Ensured precision against rotation and long-term mechanical stability
- Restorative flexibility

3.3 mm narrow implant
Treatment options with narrow implants with Roxolid® high-performance material enable clinicians to preserve the bone and avoid bone grafting in clinical situations with low bone volume.4,12-16
Ultimate restorative flexibility for esthetic and efficient restoration.

With original systems, unequalled precision and consistent high quality, the Straumann® prosthetic portfolio addresses patient’s high esthetic expectations with the flexibility to fit their budget.

**STRAUMANN® VARIOBASE® ABUTMENTS**

- Enables a good solution for full-zirconia bridge/bar restorations
- Cylindrical upper shape supports reliable bonding of the framework
- Cementation Aid included with the coping facilitates easier and faster cementation procedure
The combination of Straumann® CARES® and Createch® gives clinicians access to a complete prosthetic portfolio from one trusted partner. They can stay on top of competition and are able to offer customized restorations of quality taking into account their patient’s financial capabilities.

* Only available in Europe

STRAUMANN® CARES® SCREW-RETAINED BARS AND BRIDGES

- Custom-milled frameworks for final restoration
- Multiple bar and bridge designs available
- Bars and bridges for abutment level
- Straight and angulated screw channel

Screw-retained bars and bridges for fixed prosthesis

<table>
<thead>
<tr>
<th>Basic fixed bar</th>
<th>Advanced fixed bar</th>
<th>Basic hybrid</th>
<th>Premium hybrid</th>
<th>Abutment hybrid</th>
<th>Bridge</th>
</tr>
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* Only available in Europe
A winning combination of evidence-based technologies makes Pro Arch unique.

### REDUCED INVASIVENESS WITH ROXOLID®

Invasiveness is reduced with Roxolid®, enabling treatment options with narrower and shorter implants to preserve bone and avoid grafting in clinical situations with low bone volume. Excellent survival and success rates in daily practice use after 2 years. Reduced need for augmentation thanks to using narrow-diameter implants (3.3 mm)\(^4,\,3^{12}–16\)

Roxolid® 20 % higher tensile strength\(^{15}\)

![Tensile strength comparison chart](chart.png)

Roxolid® shows a 20 % higher tensile strength than Straumann® cold worked titanium and a 80 % higher strength than standard titanium Grade 4.

### SLACTIVE® FOR COMPROMISED PATIENTS

SLActive® enhances bone regeneration, reduces healing time and provides high success rates even in compromised patients with diabetes or irradiated patients, gives you peace of mind when treating challenging cases\(^5,\,6,\,7–11,\,26\). Implants with SLActive® surface are safe and predictable when used in immediate and early non-occlusal loading procedures\(^{27}\)

The SLActive® surface shows a faster integration into new bone after 4 weeks (50 %) compared to SLA® surface (30 %).\(^{35}\)
EMDOGAIN® SIGNIFICANTLY ACCELERATES PERIODONTAL REGENERATION AND SOFT TISSUE HEALING.

Emdogain® accelerates the early wound-healing process compared to the same procedure without Emdogain®. Emdogain® reduces pain and swelling compared to the treatment with membrane. Recent studies have demonstrated the effective anti-inflammatory potential of Emdogain®.

Emdogain® improves the rate of re-epithelialization and wound closure rate is more than doubled¹⁸,⁎,**

The amount of re-epithelialization is 70% higher at day 1 and 25% higher at day 3 after surgery.

Performance in diabetic patient group

Prospective, case-control clinical study:
• 15 diabetic patients
• 14 healthy patients

Randomized clinical trial:* 
• 102 implants, 20 patients
• 20 patients, post radio-chemotherapy

*Adjusted, excluding the patients deceased due to cancer. Excludes four additional patients who died due to cancer. Therefore, the graph is based on 15 patients with 79 implants.

Trying to regenerate a patient’s periodontium without Straumann® Emdogain® in sites where inflammation is not resolved is like trying to plant new trees in a burning forest. First, you need to put out the fire and then you can worry about planting new trees.

Prof. Dr. Véronique Benhamou
McGill University, Canada
INTEGRATED WORKFLOWS. SEAMLESS CONNECTIVITY.

Combine premium materials with carefully selected, efficient dental equipment and the latest digital technology to provide a seamless, open and fully validated digital workflow for dental professionals. Fully digitally integrated workflows and seamless connectivity. Tailored to fit. Additional tools and services for the immediate full-arch restoration.

TREATMENT PLANNING WITH coDiagnostiX®

coDiagnostiX® – a digital implant placement planning tool, enables you to plan fully edentulous cases precisely and easily. The tool offers numerous measurement and planning functions, including automatic nerve canal detection, various distance monitoring functions as well as designing surgical and bone resection guides.
SMILE IN A BOX.
CREATE YOUR OWN MIX.

Straumann® Smile in a Box is a digital, modular, integrated implant treatment planning and manufacturing service. You select the services you need, and Straumann® delivers everything you need for the treatment in one box. Straumann® Smile in a Box makes treatment planning simple and predictable with regard to time, costs and outcome.

SMILE IN A BOX
SERVICE OPTIONS

Use the complete workflow for all your treatment steps

<table>
<thead>
<tr>
<th>Full Service</th>
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<tbody>
<tr>
<td>☑ Surgical guides planned by coDiagnostiX®</td>
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<tr>
<td>☑ Surgical guides designed by coDiagnostiX®</td>
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<tr>
<td>☑ Temporary restoration designed by CARES® Visual</td>
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<tr>
<td>☑ Treatment call executed by Straumann® service</td>
</tr>
<tr>
<td>☑ Surgical guides produced by Straumann®</td>
</tr>
<tr>
<td>☑ Temporary restoration produced by Straumann®</td>
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<tr>
<td>☑ Implants, abutments and auxiliaries ordered by Straumann® service</td>
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Select the desired workflow steps needed for your individual set-up

<table>
<thead>
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<td>☑ Surgical guides planned by coDiagnostiX®</td>
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Everything will be delivered in one box ready-to-use on the day of surgery.

It is “Smile in a Box” when 2 or more products are delivered from Straumann® centralized production.
Grow your practice.

Our immediate loading solutions in combination with patient communication and practice development tools can support you to enhance treatment acceptance and grow your practice.

Grow your practice by expanding treatment options, reducing chair-time and optimizing patient communication, to attract new referrals and extend treatment options to existing patients. Patient communication is a worthwhile investment especially for edentulous patients and patients with terminal dentition.

DEDICATED PATIENT COMMUNICATION TOOLS FROM STRAUMANN®

- Advertisement kit for web and social media
- Waiting room video
- Web page content
- Educational patient brochures and flyers
- 1:1 Pro Arch Fixed dental model
- Edentulous treatment animations
- Treatment guide for patients
- Implant passport
Enhance your confidence level.

To ensure a predictable outcome for each patient Straumann® Pro Arch is supported by a strong custom-made education program.

A TAILORED EDUCATION PROGRAM FOR YOU AND YOUR TEAM

The courses are designed for clinicians and their team members with varied specializations, preferences, and experience levels:

- Straumann® Pro Arch Interaction Meetings
  For clinicians with substantial experience in fixed full-arch restorations.

- Straumann® Pro Arch Clinical Experiences
  For clinicians who would like to develop or deepen their knowledge in fixed full-arch restorations. Available as a two-day course or as a Mini Clinical Residency.

- Straumann® Pro Arch for Dental Labs
  Designed to address particular needs of dental lab technicians who work on fixed full-arch restorations.

Contact your sales representative for more information about the available Pro Arch courses from Straumann®.
REFERENCES