

EXCELLENCE IN IMMEDIACY

Straumann® TLX Implant System
Iconic Tissue Level meets
Immediacy.





“Every single time using TLX, I am left amazed and surprised with the results. I am experiencing a soft tissue response that I have never seen before. Following the same protocols as I always did, instead of good results we now have excellent outcomes. The fundamental enhancement is unbelievable tissue response, and in challenging areas the tissue forgiveness is superb. For this reason I just can’t stop using it. My full arch and single tooth experience with TLX is very rewarding, not only for me but for our patients. Many times over the years with immediacy; I wished for a product like TLX.”

Dr. Abid Faqir



DESIGNED FOR IMMEDIATE PROTOCOLS

- Fully tapered implant designed for primary stability combined with the predictability of a Tissue Level Implant
- A narrow 3.75 implant diameter option



PERI-IMPLANT HEALTH

- Reduced risk of nesting bacteria
- Optimized cleansability with the connection at the soft-tissue level
- Designed to preserve soft tissue attachment



Iconic Tissue Level meets Immediacy.

The design of the Straumann® TLX Implant takes into account key biological principles of hard and soft tissue healing. It is designed to significantly reduce the risk of inflammation and bone resorption as the implant-abutment interface is moved away from the bone.

Straumann TLX has been designed for immediacy and is an excellent solution for various indications to suit the dentist's preferred treatment protocol – ranging from immediate to conventional placement and loading.

The Straumann TLX Implant System perfectly complements our bone-level BLX Implant System. Both systems use one common drill set and TorcFit™ connection for maximum compatibility with minimum investment.



SIMPLICITY AND EFFICIENCY

- A one-stage process with restoration at soft-tissue level allows you to use chair time more efficiently
- Ease of restoration even in the posterior region
- Highly efficient treatment protocol thanks to straightforward conventional and digitally integrated workflows



DYNAMIC BONE MANAGEMENT

- Redistribution of native bone and control over insertion torque

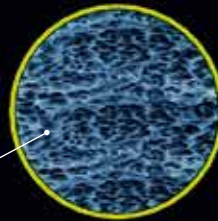


REAL CONFIDENCE

- Swiss precision and quality with Roxolid® material and SLActive® surface

TLX Implant System

The next evolution of Tissue Level Implants.



1986

Straumann® Tissue Level

Classic standard for timeless confidence.

► 30 YEARS OF DATA

1997

Straumann® SLA®

Longevity and efficiency in daily practice.

► 20 YEARS OF DATA

2005

Straumann® SLActive®

Performance beyond imagination.

► 15 YEARS OF DATA

2009

Straumann® Roxolid®

More than solid – Roxolid®. Reducing invasiveness*.

► 10 YEARS OF DATA

2019

BLX Implant System

Innovation meets Immediacy.

► 200,000+ implants based on world wide sales

*when GBR can be avoided



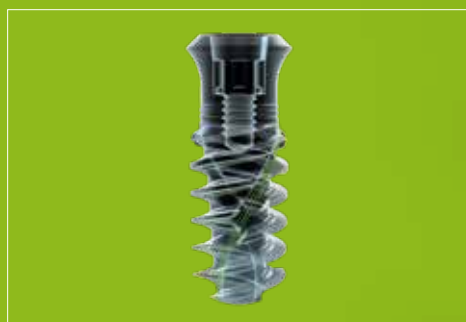
2021

TLX Implant System

Iconic Tissue Level
meets Immediacy.

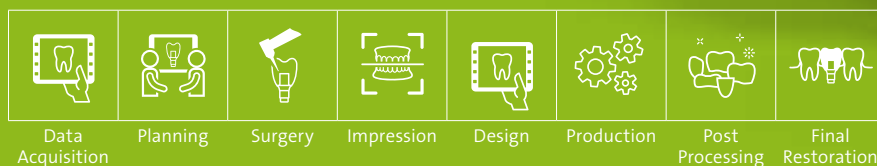
Straumann® TLX Implant System Highlights

We have built on and perfected our well established scientifically proven Straumann® Tissue Level System, to take it to the next level.



DESIGNED FOR IMMEDIATE PROTOCOLS

Developed for primary stability and immediate protocols in all bone types.



BORN DIGITAL

Fully integrated in digital workflows. From the implant planning to the final customized prosthetic.



PERI-IMPLANT HEALTH

No gap at bone level. Designed for outstanding long-term results. The right choice for patients with periodontal conditions.



SIMPLICITY AND EFFICIENCY

- Built-in emergence profile and simple soft-tissue management
- Transgingival healing. Option to eliminate second stage surgery
- Clear view and accessibility of the connection, even in the posterior region



CLINICAL VERSATILITY

- Short implant option
- A narrow 3.75 implant diameter option for bridge and full arch reconstructions
- Multiple narrow neck options for limited space

Designed for Immediate Protocols

Developed for primary stability and immediate protocols in all bone types.

Dynamic Bone Management

VARIABLE THREAD DESIGN

Thin and progressive thread design for high primary stability and efficient insertion

SLIM AND FULLY TAPERED IMPLANT CORE

Allows for small and undersized osteotomy

FULL LENGTH DYNAMIC CHIP FLUTE

Collects and condenses native bone chips and distributes them around the implant body

BI-DIRECTIONAL CUTTING ELEMENTS

Designed for reverse and forward cutting control and flexibility during implant insertion

DEEP APICAL THREADS

Large anchoring surface for immediate engaging and stability





Peri-implant Health

SIMPLICITY AND EFFICIENCY

Simple prosthetic portfolio working at soft tissue level reducing cementation challenges

EASY HYGIENE MAINTENANCE

To make patients life easier

BUILT-IN EMERGENCE PROFILE

Enhances shaping of soft tissue

MACHINED COLLAR

Manages the healing of peri-implant tissue and is designed to preserve soft tissue that forms around the implant during healing phase

NO MICRO-GAPS IN THE CRITICAL HEALING ZONE

Implant-abutment interface is positioned above bone level

2 NECK HEIGHTS



Two neck heights to facilitate different gingiva situations



Real Confidence

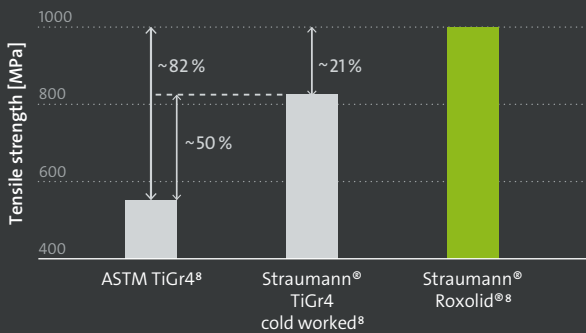
Swiss precision and quality with innovative technologies backed by long-term scientific evidence and fully integrated in our digital solutions workflows. Designed for predictable results you can trust.



Roxolid®

Reducing invasiveness with smaller implants*

- Preserves vital structures and vascularization^{1,2}
- Increases treatment options in challenging anatomical situations and narrow interdental spaces^{2,3}



SLActive®

- Reduce healing time from 6-8 weeks to 3-4 weeks^{**13-18}
- Increased surface area
- Ultra-fine topography
- Implant survival rate in immediate loading after 10 years: 98.2%⁵



Mineralization after 21 days⁹

*when GBR can be avoided

**Healing time defined by BIC and stability.





“The future in implant dentistry is with neck designs combining a smooth surface in the trans-mucosal area with a micro-rough surface inside the bone. As the Derks study showed, moving the micro-gap away from the bone and having a smooth surface in the peri-implant sulcus reduces the risk of peri-implant complications. TLX combines this concept with an innovative endosteal design and optimal primary stability, and will open a range of new clinical possibilities.”

Prof. Daniel Buser

A source of confidence. Proven clinical advantages.

DESIGNED FOR PERI-IMPLANT HEALTH¹⁰

Straumann® Tissue Level Implant design takes into account the key biological principles of hard and soft tissue healing. Simulating the natural situation of biological width formation is crucial for the health of peri-implant tissues. Preserving the tissues and attachments formed around the implant helps ensure long-term treatment success and significantly reduces the risk of inflammation and bone resorption.^{11,12}

This iconic design has proven its effectiveness and will continue to provide long-term peace of mind, time after time.

PROVEN STANDARD OF EXCELLENCE

A large independent study on peri-implantitis¹⁰ demonstrated substantial differences between implant systems and the occurrence of peri-implantitis. The probability of being diagnosed with peri-implantitis nine years after implant therapy was lowest with the Straumann® Tissue Level SLA® Implants compared to alternative systems.

Odds ratios of peri-implantitis nine years after implant placement¹⁰

Straumann® | 1



Nobel Biocare® | 3.7



Astra® Tech Implant System | 3.5



98.3% Nobel Biocare® implants with the TiUnite® surface
96.6% Astra® Tech implants with TiOblast® surface
All Straumann® TL Implants with SLA® surface

Simplicity and ...

Prosthetic portfolio, designed to meet the needs of all treatment workflows and focusing on immediate protocols.

SIMPLE AND COMPREHENSIVE PROSTHETIC SOLUTIONS

Prosthetic at soft tissue level is simple and reduces cementation challenges. Meeting a wide range of prosthetic needs: straightforward, high esthetics, advanced.



STRAIGHTFORWARD

Cost-effective solution with standard components and techniques for straightforward cases.

HIGH ESTHETICS

Solution for cases requiring an enhanced degree of individualization combined with zirconia for high esthetics.

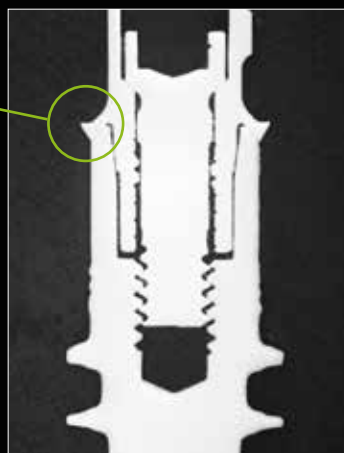
ADVANCED

Technically advanced solution for cases requiring an enhanced degree of individualization. Perfectly adapted to the digital workflow.



TorcFit™ Connection

Tight connection sealing



Delivers high flexibility and high strength.

Ease of handling:

- Simple abutment placement at the soft-tissue level
- Easy handling of direct-to-implant restorations



Abutment screw engages in implant only if seated correctly. So no hassle to confirm proper seating by x-ray.

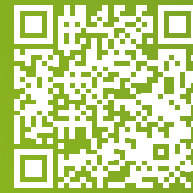
... efficiency

BORN DIGITAL

Fully integrated in the Straumann Group Digital Solutions ecosystem.



For a complete overview of the DIGITAL PRODUCTS AND SERVICES, like Smile in a Box® visit our website:



STRAUMANN® MODULAR CASSETTE

A cassette that grows with you

- One surgical protocol for TLX and BLX.
- VeloDrill™: cool drilling, minimal collateral tissue damage



STRAUMANN® BIOMATERIALS

Advanced solutions for immediate treatment protocols:

- **Straumann® XenoGraft:** Natural, bovine bone substitute for extended stability
- **Jason® membrane:** Thin and tear-resistant membrane with a long barrier function, derived from native collagen from porcine pericardium
- **Stable, easy-to-handle collagen matrix** derived from porcine dermis for soft-tissue augmentation; it reduces morbidity and increases patient comfort compared to autogenous grafts



Case Study

Immediate replacement of severely compromised single maxillary molar with digital workflow

DR. WEI SHAO LIN | DR. WALDEMAR POLIDO | DR. DEAN MORTON



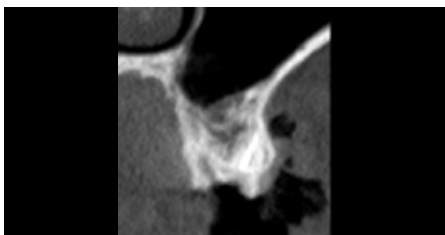
1. INITIAL SITUATION | Initial – Buccal view



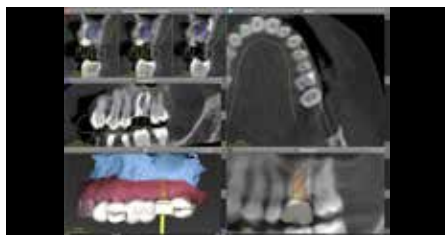
2. INITIAL SITUATION | Initial – Occlusal view



3. INITIAL SITUATION | Initial periapical radiograph



4. PLANNING | Initial CBCT view



5. PLANNING | coDiagnostiX® plan



6. PLANNING | Planned Implant and crown position



7. PLANNING | Provisional crown design on CARES®



8. PLANNING | Model with TLX® analog for crown positioning



9. PLANNING | Provisional crown on model



10. SURGERY | Intraoperative view after extraction – socket



11. SURGERY | Surgical guide in position with alignment pin – Occlusal view



12. SURGERY | Surgical guide in position with alignment pin – Buccal view



Dr. Wei Shao Lin, DDS, PhD



Dr. Waldemar Polido,
DDS, MS, PhD



Dr. Dean Morton, BDS, MS



13. SURGERY | Straumann® TLX SP implant,
Ø5.5 WT SLActive®; 8 mm



14. SURGERY | Intraoperative view – Implant
placed



15. SURGERY | Intraoperative view – bone graft
in the gap around implant



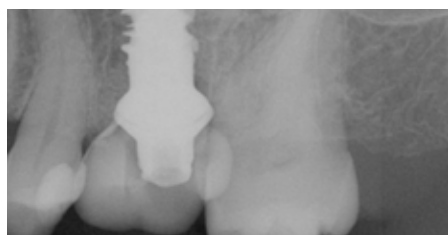
16. IMMEDIATE RESTORATION | Provisional
abutment and crown ready for chairside pickup



17. IMMEDIATE RESTORATION | Provisional
abutment and crown during chairside pickup



18. IMMEDIATE RESTORATION | Immediate
Provisional crown delivered – Occlusal view



19. IMMEDIATE RESTORATION | Immediate
periapical radiograph



20. IMMEDIATE RESTORATION | Final crown on
3D printed model – Buccal view



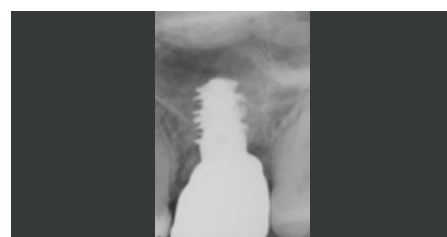
21. IMMEDIATE RESTORATION | Healing
condition 2 months after procedure



22. FINAL OUTCOME | Final restoration –
Occlusal view



23. FINAL OUTCOME | Final restoration –
Buccal view



24. FINAL OUTCOME | Final periapical
radiograph

Straumann® TLX Implant System

We have built on and perfected our well established scientifically proven Straumann® Tissue Level System, to take it to the next level.

Wide range of implant diameters and lengths



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1 Ioannidis, A., et al., Titanium-zirconium narrow-diameter versus titanium regular-diameter implants for anterior and premolar single crowns: 3-year results of a randomized controlled clinical study. *J Clin Periodontol*, 2015. 42(11): p. 1060-70. 2 Al-Nawas, B., et al., A Prospective Noninterventional Study to Evaluate Survival and Success of Reduced Diameter Implants Made From Titanium-Zirconium Alloy. *J Oral Implantol*, 2015. 41(4): p. e118-25. 3 Altuna, P., et al., Clinical evidence on titanium-zirconium dental implants: a systematic review and meta-analysis. *Int J Oral Maxillofac Surg*, 2016. 45(7): p. 842-50. 4 Nicolau, P., et al., 10-year outcomes with immediate and early loaded implants with a chemically modified SLA surface. *Quintessence international* (Berlin, Germany : 1985), 2019. 50(2): p. 114-124. 5 Heberer, S., et al., Rehabilitation of irradiated patients with modified and conventional sandblasted acid-etched implants: preliminary results of a split-mouth study. *Clin Oral Implants Res*, 2011. 22(5): p. 546-51. 7 El Chaar, E., et al., Osseointegration of Superhydrophilic Implants Placed in Defect Grafted Bones. *Int J Oral Maxillofac Implants*, 2019. 34(2): p. 443-450. 8 Norm ASTM F67 (states min. tensile strength of annealed titanium); data on file for Straumann cold-worked titanium and Roxolid® implants. 9 Kopf, B.S., et al., Enhanced differentiation of human osteoblasts on Ti surfaces pre-treated with human whole blood. *Acta Biomater*, 2015. 19: p. 180-90. 10 Derks, J., et al., Effectiveness of Implant Therapy Analyzed in a Swedish Population: Prevalence of Peri-implantitis. *Journal of dental research*, 2016. 95(1): p. 43-49. 11 Hermann, J.S., et al., Biologic width around titanium implants. A physiologically formed and stable dimension over time. *Clin Oral Implants Res*, 2000. 11(1): p. 1-11. 12 Hermann, J.S., et al., Biologic Width around one- and two-piece titanium implants. *Clin Oral Implants Res*, 2001. 12(6): p. 559-71. 13 Raghavendra, S., M.C. Wood, and T.D. Taylor, Early wound healing around endosseous implants: a review of the literature. *Int J Oral Maxillofac Implants*, 2005. 20(3): p. 425-31. 14 Lang, N.P., et al., Early osseointegration to hydrophilic and hydrophobic implant surfaces in humans. *Clin Oral Implants Res*, 2011. 22(4): p. 349-56. 15 Oates, T.W., et al., Enhanced implant stability with a chemically modified SLA surface: a randomized pilot study. *Int J Oral Maxillofac Implants*, 2007. 22(5): p. 755-60. 16 Nicolau, P., et al., 10-year outcomes with immediate and early loaded implants with a chemically modified SLA surface. *Quintessence Int*. 2019 Jan 25;50(2):p. 114-124. 17 Reis, R., et al., Immediate versus early loading protocols of titanium-zirconium narrow-diameter implants for mandibular overdentures in edentulous patients: 1-year results from a randomized controlled trial. *Clin Oral Implants Res*. 2019 Oct;30(10):953-961. 18 Eckert, S.E., et al., Immediately Loaded Fixed Full-Arch Implant-Retained Prosthesis: Clinical Analysis When Using a Moderate Insertion Torque. *Int J Oral Maxillofac Implants*. 2019 May/June;34(3):737-744.

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