

STRAUMANN® IMMEDIAXYTM

Taking immediacy to the next level.

System overview

TAKING IMMEDIACY TO THE NEXT LEVEL.

"More than just a one-stop supplier, Straumann[®] is a trusted, long-term partner who provides service, training and marketing support to help you grow your practice."

Patients' increasing demand for shorter treatment times, the growing evidence for predictable success⁸, and the positive effects on productivity and growth have made immediate treatment protocols a popular choice in implant dentistry.

Backed by its scientific approach and building on its legacy of innovation, Straumann[®] now takes immediacy to the next level of reliability and efficiency.

With ImmediaXy[™], Straumann[®] offers an ecosystem of solutions that are designed to enable dental professionals to confidently and efficiently provide

their patients with immediate temporization – whenever possible and clinically sensible, whether in single tooth, multiple teeth or full-arch cases.^{3, 9–13}

Discover how ImmediaXy[™] can support you, for the benefit of your patients and the success of your business.



END-TO-END

Straumann[®] ImmediaXy[™] includes and seamlessly connects all stages of the workflow: Data Acquisition, Planning&Design, Surgery and Restoration.



CONFIDENCE

ImmediaXy[™] benefits from Straumann's scientific approach, proven expertise and evidence-based solutions.^{1–7}



EFFICIENCY

Straumann[®] ImmediaXy[™] puts operational simplicity and workflow optimization at the core of its solutions, whether digital, surgical or restorative.



COMPREHENSIVE PARTNERSHIP

As a true partner, Straumann[®] offers service, training and practice growth initiatives in combination with excellent products and solutions.

STRAUMANN® MEDIAXY HELPS YOU TO MEET GROWING PATIENT EXPECTATIONS ...







- ightarrow Shorter time to teeth*
- → Shorter treatment time*
- → Less discomfort*
- \rightarrow Natural-looking aesthetics

*compared to conventional treatments





mmediate provisional prosthesis in place

ctures: Dr. Eirik Aasland Salvesen and Dr. Ida Koll-Frafjord (Oris Academy, Norwa

... AND SUPPORTS THE GROWTH AND PRODUCTIVITY OF YOUR PRACTICE

- → Push boundaries with confidence: our end-to-end solutions are designed to enable immediate treatments with predictable outcomes
- → Gain time & cost efficiency: enjoy a frictionless and flexible ecosystem that meets your workflow needs
- → Accelerate revenue generation: our wide portfolio of solutions for immediate treatments enables you to treat complex indications such as full arch rehabilitations in atrophied jaws



Straumann[®] ImmediaXy[™]'s integrated ecosystem covers all stages of an immediate workflow for a frictionless experience: Data Acquisition, Planning & Design, Surgery and Restoration. It provides end-to-end solutions, which are designed to enable immediate treatments with predictable outcomes.^{11,14,15}

Straumann[®] ImmediaXy[™] makes the benefits of digital dentistry accessible – either in-house or outsourced – and is compatible with third-party solutions. A modular system that can be tailored to support your workflow.



DATA ACQUISITION



Virtuo Vivo™

IN-HOUSE







OUTSOURCED

6

END-TO-END SOLUTIONS - WHATEVER YOUR WORKFLOW.



Smile in a Box®

DATA ACQUISITION MADE EASY.

STRAUMANN® VIRTUO VIVO™

Our newest compact and light-weight intraoral scanner

- → Scans an entire dentate arch in just two minutes or a quadrant in under 45 seconds
- → Compact handpiece: greater convenience and comfort for the patient
- ightarrow Validates data quality in real time
- ightarrow Powderless intraoral scanning in real color







3SHAPE® TRIOS®

Rock your practice

- ightarrow Fast and easy to use to ensure patient comfort
- → Includes excitement apps for patient engagement
- → Accurate color impressions incl. teeth shade measurements
- → Available as a wireless version with longlasting, rechargeable batteries
- → Wide variety of indications, restorative options and materials



MEDIT® 1500

Digital dentistry made easy

- ightarrow Small tip for high mobility and patient comfort
- → Single button control: start, stop, proceed with a single button
- → High resolution: recognize all details such as margin lines, undercuts, etc.
- → Vivid color: 3D full color streaming capture for precise scans and detail-rich images
- → Video type: 3D in-motion video technology for rapid scans

EFFICIENT PLANNING AND DESIGN.

CODIAGNOSTIX®

More than implant planning software, coDiagnostiX[®] is a practice differentiator.

- → Enables precise and easy planning for predictable results from simple to advanced cases
- → Offers numerous functions, e.g. drill guide design, automatic nerve canal detection and distance monitoring

CARES® VISUAL

Open design software solution

- → Compatible with intraoral scanners, impression scanners and milling machines
- → Supports a wide range of applications
- → Allows for input and output of STL for third-party systems

STRAUMANN® CARES® P SERIES

CARES[®] P series is a new generation of precision 3D printers for fast and professional in-house production of premium-quality dental products on demand. The CARES[®] P series provides a new experience in professional dental printing in terms of speed, flexibility and open solutions.







SMILE IN A BOX®

Focus on your passion – we take care of the rest.

Smile in a Box[™] is a flexible treatment planning and manufacturing service to gain efficiency and practice growth. You select the workflow steps you want to focus on – we deliver everything you need for your treatment in one box.



ADVANCED SURGICAL SOLUTIONS.

The Straumann X-Family Confidence beyond immediacy at every level

Straumann[®] BLX and TLX with Dynamic Bone Management have been developed to make immediate protocols achievable, predictable and minimally invasive in all bone types.

- ightarrow The same endosteal design means the same drill set for both systems.
- \rightarrow Reduced invasiveness: Ø 3.75 mm for all tooth positions^{13, 16–18}, short implants^{19–22}
- ightarrow One connection for all diameters
- ightarrow Full digital integration for optimized workflows





STRAUMANN® BLX

The new generation of bone-level implant

- → Developed for immediate protocols in all bone types.
- → Simple yet versatile portfolio with under-contoured prosthetics for excellent soft-tissue management

STRAUMANN® TLX

The proven benefits of tissue level now available also for immediate workflows

- → Peri-implant health: no microgap at bone level, immediate soft-tissue attachment preservation
- → Simplicity & efficiency: Built-in emergence profile and simple soft-tissue management, clear view and accessibility of the connection, even in the posterior region
- → Two neck shapes (straight and flaring) for more clinical versatility*

*compared to Straumann® TL

STRAUMANN[®] ZYGOMATIC IMPLANT SYSTEM

Designed by experts with the patient in mind

- → The Straumann[®] Zygomatic Implant System provides an immediate, graftless, predictable fixed solution for edentulous patients and patients with terminal dentition.
- → Two implant designs, ZAGA[™] Flat and ZAGA[™] Round, to suit the patient's anatomy and bone availability.
- → The Straumann[®] Zygomatic implants are compatible with our Bone Level prosthetic portfolio for fixed overdentures including coping and impression material.



ROXOLID[®]

- \rightarrow Reducing invasiveness with smaller and narrower implants^{13, 16–22}
- \rightarrow High-performance alloy of 85% titanium and 15% zirconium²³
- → Higher tensile²⁴ and fatigue strength than comparable titanium implants^{5, 25}
- $\rightarrow\,$ Increases treatment options in challenging anatomical situations and narrow interdental spaces^{16, 17}
- → Preserves vital structures and vascularization²⁶



Quantity of calcium

in a.u.

SI Active

Q

SLACTIVE®

- → For high predictability and accelerated osseointegration
- → Hydrophilic surface technology
- \rightarrow Reduces initial healing time^{*} to 3–4 weeks^{**.27, 28}
- \rightarrow Enhanced bone regeneration even at compromised sites²⁹
- \rightarrow 98.2% implant survival rate in immediate loading after 10 years³
- → 100% implant survival rate in irradiated patients with compromised bone after 5 years^{30, 31}

Healing time defined by bone-to-implant contact and stability
**Compared to SLA®



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 mucoderm[®]: 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



SLA®

Mineralization at 21 days³²

SLActive[®]

HIGH RESTORATIVE VERSATILITY.



IMMEDIATE TEMPORARY ABUTMENTS

For immediate and simple chairside temporization

- → Designed for cement-retained crowns on BLT and BLX
- → Easy choice of pre-sterilized TAN abutments with varied gingival heights
- → The PMMA coping enables extraoral crown finishing



M SERIES

Professional milling and grinding for your practice

- \rightarrow Benefit from fast prosthesis turnaround times
- → Wet, wet/dry and dry milling in a single appliance
- → Create an extensive range of restorations for every indication
- ightarrow Enjoy a wide variety of materials to work from

STRAUMANN[®] CARES[®] CUSTOMIZED PROSTHETICS

Ultimate restorative flexibility

- → Performance thanks to best-in-class materials, technologies, services and know-how
- → Flexibility with a comprehensive portfolio of restorative options and a choice of in-house or centralized workflows
- → Simplicity: the one-stop-shop for all your CADCAM restorative needs



STRAUMANN® PRO ARCH

Tailored to fit. Designed to last.

- → Treatment options: A variety of options to address specific indications and different patient needs.
- → Immediate loading: BLT^{11, 12}, BLX and TLX implants were designed for reliable primary stability and immediate loading.
- → Reduced invasiveness: Roxolid[®] enables the use of narrow^{13, 16–18} and short implants^{19–22} designed to preserve bone and avoid severe grafting.
- → **Compromised patients:** Peace of mind with SLActive[®] even when treating compromised patients with diabetes or irradiated patients.^{30, 31, 33}
- → Restorative flexibility: The prosthetic portfolio addresses patients' esthetic expectations within their financial resources.
- → Practice growth: Practice development and patient communication tools support your practice growth.





STRAUMANN® IMMEDIAXY™ IN PRACTICE.

Replacement of a deciduous canine with immediate, computerguided implant placement and immediate prosthesis.

- \rightarrow 31 year-old female
- ightarrow Deciduous tooth 23 still in place and mobile
- → Complex anatomy due to impacted tooth 23
- → Patient's wish for short treatment and high
 - esthetics at all times

Acknowledgements: Alessandro Giacometti, dental technician (Genoa, Italy) and Dr Luca Repetto, DDS (Genoa, Italy)

DATA ACQUISITION



Initial situation with deciduous tooth 23

PLANNING & DESIGN



Digital wax-up of tooth 23



The CBCT exam shows the impacted canine and limited space available



Superimposition of the files in coDiagnostiX® to plan the implant and temporary abutment



Assessment of bone availability with CBCT



Dr Sergio Piano DDS, Genoa, Italy

Optical impression with Virtuo Vivo™



The guide is printed and the sleeve is glued into place

SURGERY



Simple extraction due to root resorption



Fully-guided drilling with VeloDrill™ system



Design of surgical guide based on correct

sleeve alignment

Guided placement of a BLX implant $(\emptyset 4.5 \text{ mm} \times 8 \text{ mm})$



Occlusal view after implant placement

RESTORATION



Provisional crown fitted on resin model



Design of final crown in DWOS® CADCAM



The provisional crown is accurately placed on the abutment with a mask



Final, screw-retained zirconia crown on Variobase®



Provisional crown in place, out of occlusion



Esthetic integration of the final crown



The post-operative X-ray confirms the precise placement



The patient's smile at the end of the treatment

Compromised maxillary dentition treated with Straumann® Pro Arch in a digital workflow

- \rightarrow 51 year-old male
- \rightarrow Smoker (< 10 cigarettes per day)
- \rightarrow Soft bone quality: types 3 and 4
- \rightarrow Limited bone availability in the posterior area



Dr Tran Thanh Phong

DATA ACQUISITION



DSD file of the initial situation

Initial situation: gingival inflammation and recession are visible

PLANNING & DESIGN



Matching of the surgical and prosthetic plans in coDiagnostiX®





Designs of the guides for pin fixation, bone reduction, drilling and bite registration



The CBCT shows decayed roots and bone resorption



Computer-assisted design of the temporary PMMA prosthesis



Digital scan of the initial maxillary situation



The milled PMMA bridge on a model

SURGERY



The bone reduction guide is placed after the atraumatic tooth extractions



Fully-guided drilling with VeloDrills™ as per the pre-defined surgical protocol



Guided placement of the BLX implants (Ø 4.5 mm x 12 mm), torqued at 50 Ncm



The screw-retained abutments and protective caps. cerabone® 1-2 mm has been added.

RESTORATION



Try-in of the temporary PMMA bridge prior to suturing



Final multilayered full-contour zirconia bridge cemented on Variobase® copings



Temporary PMMA bridge in place after suturing



Occlusal view of the final prosthesis



Computer-assisted design of the final zirconia bridge



The patient's smile at the end of the treatment



Consideration of the bite registration thanks to a virtual articulator



Panoramic radiograph after 5 days

STRAUMANN[®] IMMEDIAXY™

REFERENCES

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