STRAUMANN® CARES® GUIDED SURGERY
AN INTEGRAL AND FLEXIBLE SOLUTION

FEATURING coDiagnostiX™

COMMITTED TO
SIMPLY DOING MORE
FOR DENTAL PROFESSIONALS
A smile is often the first positive impression about a person and most people consider teeth an essential and important part of their physical appearance. If the need arises to replace missing teeth, it is therefore important to obtain a natural-looking and esthetic outcome. Patients expect a painless treatment with only a few visits in the dental practice.

Straumann® CARES® Guided Surgery is widely known for its reliability and supports to provide patients with a winning smile.
DELIVERING A CUTTING-EDGE SOLUTION TO PATIENTS IN ALL INDICATIONS*

**Confidence**
Detailed diagnostics of the patient situation in 3 dimensions provides a 360° view of the bone morphology and helps to increase peace of mind.

**Consistency**
Finding the optimal implant position and precision in implant placement support to achieve consistent results.

**Case acceptance**
Better patient communication and reliable treatment estimates build trust in implant treatment.

* From single-tooth to edentulous
Predictability in advanced cases
Comprehensive visualization and prosthetic-driven implant planning enable to achieve predictable results also in advanced surgical applications.

Access to new protocols
Straumann® CARES® Guided Surgery offers a reliable access to minimally invasive surgery and is designed to reduce bone grafting procedures.

Treatment efficiency
Decreased time during the surgical procedure and enhanced communication within the treatment network help improving the efficiency.
STRAUMANN® CARES® GUIDED SURGERY PRODUCT FEATURES AT A GLANCE

AN OPTIMAL AND MORE EFFICIENT TREATMENT FOR EVERY PATIENT

Enhanced treatment through seamless connectivity
Straumann® coDiagnostiX™ provides dental professionals with a compatible, reliable and precise solution in digital dentistry. Straumann® CARES® caseXchange™ is a communication platform that allows seamless communication between implantologists, referring dentists, dental technicians and patients.

Flexibility with an open system
Straumann® CARES® Guided Surgery is an open system, in terms of both software and hardware: coDiagnostiX™ allows planning implants from various implant manufacturers, and the Straumann® Guided Surgery kit is compatible with several major, commercially available software systems.

Reliability through a precise template fabrication by the local dental lab
Straumann® CARES® Guided Surgery relies on scan and surgical template fabrication by the local dental lab. The templates based on the coDiagnostiX™ Treatment plan are designed on the master model with conventional materials. This enables achieving a precise fit for a reliable surgical procedure. Furthermore, the value added remains in the autonomous dental team, and the delivery times can even be fully controlled.
The Straumann® CARES® Guided Surgery process involves the entire dental team from the very beginning and allows fully flexible, computer-guided surgery.

1. Treatment planning – Decision for a guided surgery procedure
Chair side diagnostics and patient-specific requests influence the treatment plan. The patient’s request, the imaging procedure, the number of implants, and the type of final restoration need to be taken into account for a guided surgery treatment plan.

2. (CB)CT scanning – Preparation and scanning
The scanning process requires a scan template containing information about the desired final prosthetic restoration according to the patient’s situation and needs. The set-up is realized together with the dental technician. Wearing the scan template, the patient is scanned with a commercially available 3D (CB)CT scanner that delivers imaging information according to the widely accepted DICOM standard.
3. 3D planning – Diagnostics & implant planning
The user can import the 3D dataset (DICOM) directly into the Straumann® Planning software coDiagnostiX™. The implant is positioned with respect to the patient’s anatomy and the desired prosthetic outcome.

4. Surgical procedure – Guided surgery & implant insertion
coDiagnostiX™ provides the plan for surgical template production with gonyX™ and the surgical protocol for the Straumann® Guided Surgery instruments. The surgical template contains the sleeves that guide the instruments and the implant. After fixing the surgical template in the patient’s mouth, the implant bed can be prepared with the guided instruments and followed by the guided implant insertion.
SOPHISTICATED, USER-FRIENDLY DIAGNOSTICS AND IMPLANT PLANNING SOFTWARE
SOPHISTICATED, USER-FRIENDLY DIAGNOSTICS AND IMPLANT PLANNING SOFTWARE

1 DICOM TRANSFER
coDiagnostiX™ offers two modes for DICOM Transfer: Quick DICOM Transfer and Expert DICOM Transfer.

2 DEFINE PANORAMIC CURVE
The implant planning starts with the panoramic curve, which is the basis for the calculation of the panoramic view, the implant’s position, and more.

3 DEFINE NERVE CANALS
coDiagnostiX™ allows an automatic detection of the nerve canal in the maxilla or mandible. This may also be done manually.
User-friendly software design
Customizable interface associated with an interactive workflow panel guiding the user step-by-step through the process for implant planning.

Advanced planning functionalities
Segmentation and augmentation functionalities, sophisticated 2D and 3D measurement features help to improve the predictability for implant planning.

Easy implant set-up
Easy access to the implant library including the indication-based abutment selection wizard. The library contains implant, abutment and sleeve systems from several major manufacturers.
Prosthetic driven implant planning
Import any surface scan that can be matched with the (CB)CT scan. coDiagnostiX™ allows to build a virtual setup by using a complete range of model teeth.

Surgical planning functions
Pre-defined workspaces with a comprehensive 2D and 3D visualization, automatic nerve detection and various critical distance warning functions offer an efficient diagnostics and implant planning.
4 DETECT REFERENCE PINS
In order to use the implant planning for the surgical template fabrication, the detection of the reference pins is required to ensure the link between coDiagnostiX™ and the gonyX™ Table.

5 MEASUREMENT AND DIAGNOSTIC FUNCTIONS
coDiagnostiX™ provides a comprehensive measurement and diagnostic functionalities such as distance, angle, density measurement, and more.

6 IMPLANT PLANNING
coDiagnostiX™ has an integrated implant database with implants from various manufacturers. An abutment for each implant, virtual teeth, and drilling sleeves can be added.
The Straumann® Guided Surgery instruments are used for a fully guided implant bed preparation in combination with a surgical template containing Straumann® Surgical sleeves. They are used according to the Straumann® Surgical protocol provided by the planning software.

The Straumann® Guided implants complement the Guided Surgery instruments. They have a special transfer piece that fits the surgical sleeve for fully guided implant insertion including physical depth control with the stop key.
SURGICAL CASSETTE FOR STRAUMANN® GUIDED SURGERY

Drill handle cylinder, Ø 4.2 mm, +1 mm/+3 mm
Drill handle cylinder, Ø 3.5 mm, +1 mm/+3 mm
Drill handle cylinder, Ø 2.8 mm, +1 mm/+3 mm
Drill handle cylinder, Ø 2.2 mm, +1 mm/+3 mm
C-handle H6
C-handle H4
C-handle H2

Handpiece adapter/ratchet adapter
Guided taps
Guided profile drills

Sleeves

Mucosa punch, Ø 4.7 mm, guided
Mucosa punch, Ø 4.0 mm, guided
Mucosa punch, Ø 3.4 mm, guided

Pilot Drill, Ø 2.2 mm, 16/20/24 mm, guided

Milling Cutter, Ø 2.8 mm, guided

Milling Cutter, Ø 3.5 mm, guided

Milling Cutter, Ø 4.2 mm, guided

Twist Drill PRO, Ø 2.8 mm, 16/20/24 mm, guided

Twist Drill PRO, Ø 3.5 mm, 16/20/24 mm, guided

Twist Drill PRO, Ø 4.2 mm, 16/20/24 mm, guided

Template fixation pins, Ø 2.8 mm
Template fixation pins, Ø 3.5 mm
Template fixation pins, Ø 4.2 mm

Endosteal implant diameter 3.3 mm
Endosteal implant diameter 4.1 mm
Endosteal implant diameter 4.8 mm
With gonyX™, the Straumann® CARES® Guided Surgery workflow involves the dental lab for the scan and the surgical template fabrication. Surgical templates have a verified fit and can be produced according to the implantologist’s requirements with a short delivery time.

**Scan template fabrication**
The scan template is fitted on the master model that represents the patient situation. According to the implantologist’s and dental technician’s preferences, the scan template contains information about the desired prosthetic outcome and the soft tissue in the form of radiopaque materials.

**Reference system and (CB)CT scanning**
The scan template is always connected to the templiX reference plate containing three titanium reference pins. The reference pins are detected by the software and ensure the link between the software planning and the gonyX™ for surgical template fabrication. There is no need for a separate scan of the scan template.

**Surgical template fabrication**
The template plan provided by coDiagnostiX™ is the basis for the fabrication of the surgical template. This plan shows four parameters for the spatial position of each implant and the depth information for the placement of the surgical sleeve. Additionally, the software provides a printout for the verification of the parameter settings before drilling and also for controlling the surgical template after production. If desired, the scan template can be reworked into the surgical template.
The types of support and solutions used may influence the treatment planning. Mucosa-, teeth- or temporary implant-supported surgical template fixations are possible depending on the clinician’s preferences and the dental technician’s experiences.

**Option – template fixation pins**
Additional stabilization of the surgical template can be achieved by anchoring it with template fixation pins.
Straumann® CARES® Digital Solutions

SEAMLESS CONNECTIONS

Straumann is committed to Digital Dentistry

Under its umbrella brand ‘Straumann® CARES® Digital Solutions’, Straumann offers state-of-the-art systems together with seamless connectivity to one of the world’s leading implant, restoration and regenerative platform, in addition to Straumann quality, service and network support.

Straumann® CARES® Digital Solutions means leaving the digital islands and obtaining a complete digital solution. With Straumann® CARES® Digital Solutions, an integral and compatible solution for digital dentistry that seamlessly connects across disciplines is gained. The digitization of the dental workflow brings new and exciting possibilities for surgeons, general practitioners or lab technicians.
ENHANCED COMMUNICATION

Struamann® CARES® caseXchange™ is a communication platform involving patients and dental professionals across disciplines. A sophisticated set of tools supports seamless communication in a computer-guided implant procedure over the entire treatment cycle.

iPad® Application

- The coDiagnostiX™ Plan can be shared with any iPad® User via the internet
- Ideal for communication with referring dentists, patients or other colleagues

coDiagnostiX™ Communication server

- Online case sharing between all coDiagnostiX™ Licenses (Station, PPG, PPP)
- Ideal to get an expert opinion from a colleague
- Treatment plan alignable with all parties involved from the very beginning
Having pioneered many of the most influential technologies and techniques in our field, we have a tradition of doing more to advance dental regeneration, restoration, replacement, as well as patient care. Straumann offers you more than just products. It is our ambition to provide you with outstanding services for the benefit of you and your patients:

**Training and education programs** support optimal treatment outcomes and security in product handling.

**Customer service** to address your needs and direct sales force to assist you with your referral network.

**Technical support** for your convenience. PC Visit remote support allows your Straumann helpline to log on your computer and answer your questions in real time on your screen.

We are committed to simply doing more for you. The Straumann sales team is always at your service to answer product-related questions of your dental practice.

[www.straumann.com](http://www.straumann.com)
STRAUMANN®
coDiagnostiX™ LICENSES

TAILORED OFFERINGS
ACCORDING TO
REQUIREMENTS

Select the ideal license – from paying per patient with low initial investment to selecting the full version offering unlimited cases without additional fees. There is also given the option of using the software for planning purposes only, without producing the surgical template.

License recommendation based on the implant practice expectations
### STRAUMANN®
#### coDiagnostiX™

### KEY LICENSE SPECIFICATIONS

<table>
<thead>
<tr>
<th>Feature</th>
<th>coDiagnostiX™ Station</th>
<th>coDiagnostiX™ PPG</th>
<th>coDiagnostiX™ PPP</th>
<th>coDiagnostiX™ coDoctor</th>
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