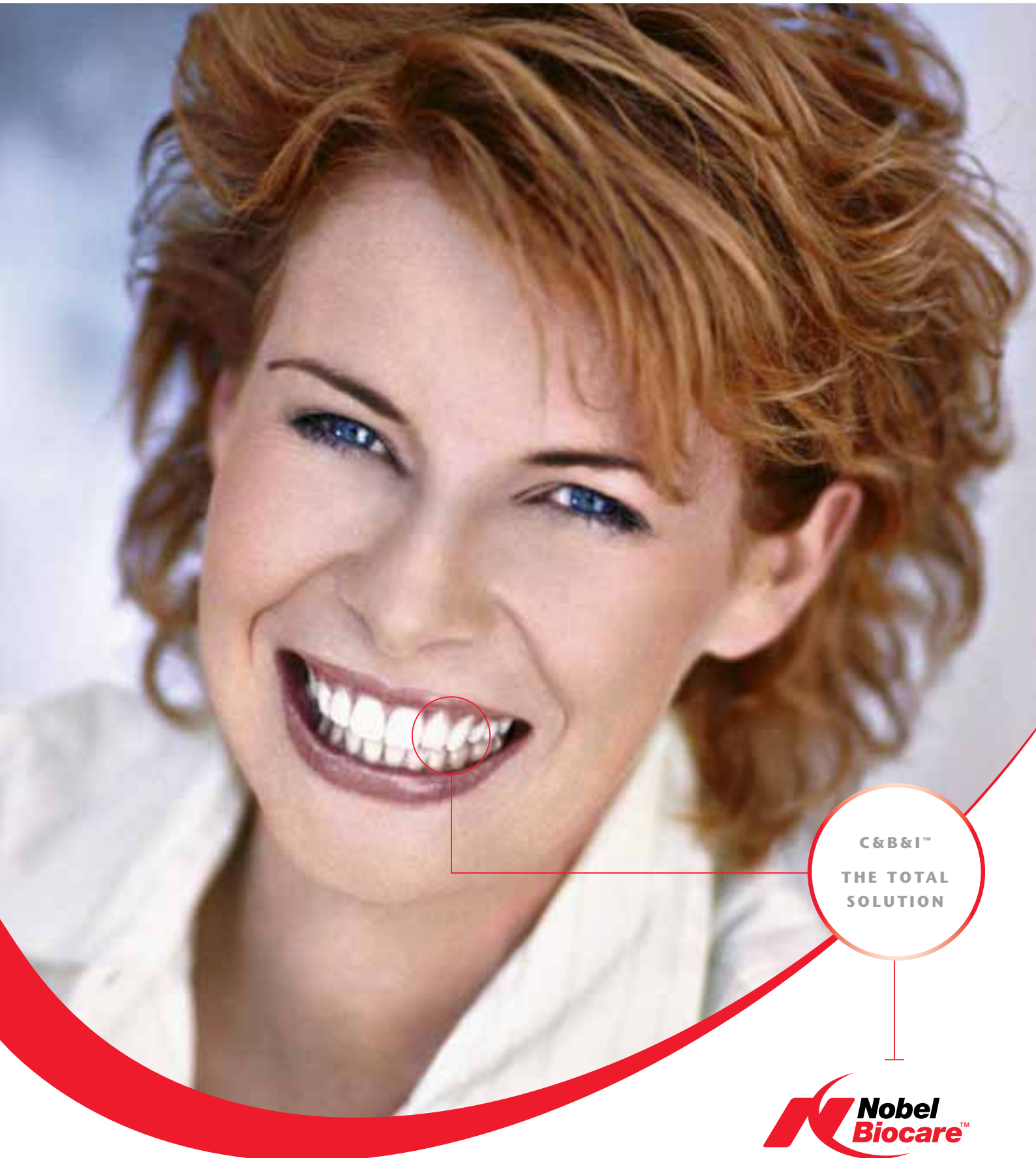


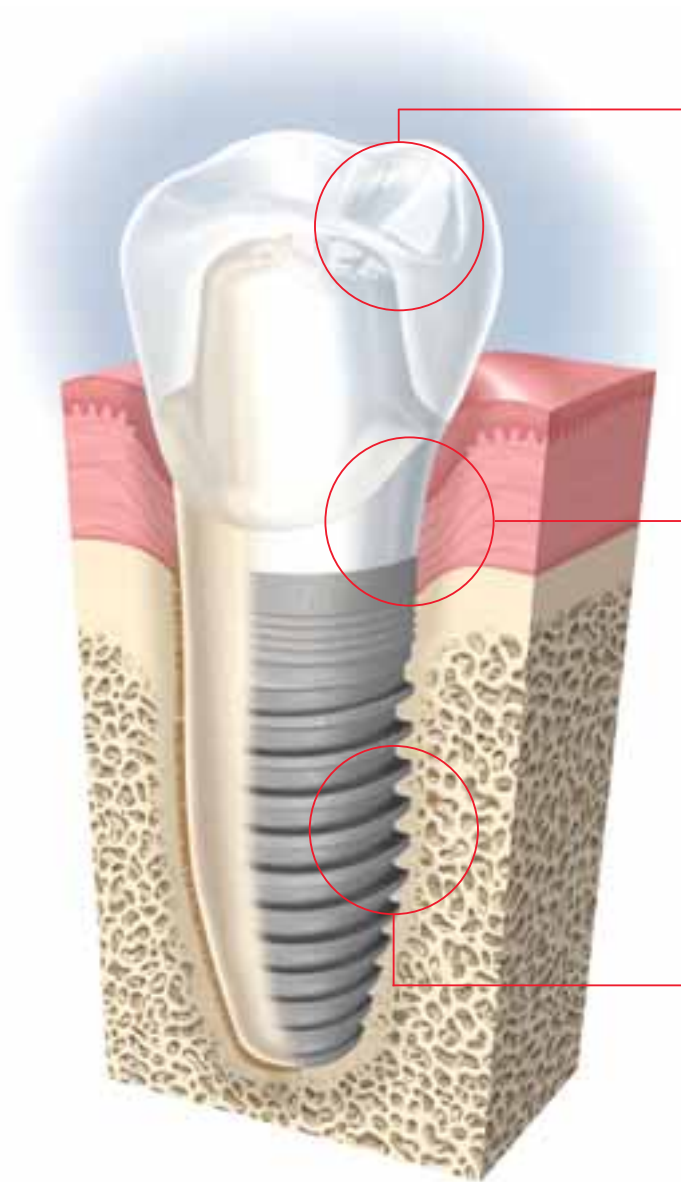
growing your practice with

beautiful teeth now™



C&B&I™  
THE TOTAL  
SOLUTION

**Nobel  
Biocare™**  
*making you smile™*



## Easy Esthetics™

Beautiful Teeth.  
Best esthetic biomaterials  
and individualized easy  
applications.

## Soft Tissue Integration™

Beautiful Gingiva.  
Best biomaterials, surfaces,  
design and procedures  
created for maintaining and  
regaining natural soft tissue.

## Immediate Function™

No healing time required  
prior to functioning.  
Best biomaterials, surface,  
designs and procedures  
for maintaining implant  
stability during the  
healing process.

now you can really deliver

# the total solution

People once had to accept the appearance and functionality of their teeth.

Now Nobel Biocare assures that beautiful, fully functioning teeth are everyone's right. In fact we provide the innovations in crowns, bridges and implants that enable you to make that a reality.

Nobel Biocare is the only company that offers you a total solution so you can do everything from start to finish. As the world leader in esthetic dentistry, we support three core concepts: 1) Easy Esthetics™, 2) Soft Tissue Integration™ and 3) Immediate **Function™**, allowing you to create Beautiful Teeth Now™.

if you can do crowns and bridges you can do implants

Nobel Biocare's innovative products and procedures have revolutionized the world of implants. Now you can plan and predict every aspect of implant placement in advance – with pinpoint accuracy. You can even place implants and prostheses at the same time, as no healing time is required.

Our implants achieve high stability which is maintained during healing by the faster osseointegration of TiUnite® and Groovy. In practice, this means that patients can leave the chair with functioning, beautiful teeth in just one visit. Placing implants becomes simply another part of normal prosthetic work.



giving everyone simpler solutions for

# Easy Esthetics™

- Easy procedures
- Beautiful and long-lasting results

To enable Beautiful Teeth Now™, we provide a complete solution for all 'above-the-gum' esthetics. There are a range of products to both beautify and add confidence to those who thought that they would never have a radiant smile.

These products are intentionally designed to be easy to use in your daily practice. Combining the finest dental prosthetics with the world's only industrialized process for customized crowns,

bridges, laminates, we ensure you really can deliver Easy Esthetics™ to all your patients.

## Procera® – strong and beautiful

- 20 years' experience of individualized production
- More than 6 million copings produced
- Solid scientific documentation
- Fracture rate below 0.5%

## Achieving brilliant results with Procera®

Nobel Biocare's unique Procera® technology offers esthetic and functional dental restorations for all indications. Based on the latest scanning, CAD/CAM and manufacturing technologies, the Procera® system provides completely individualized prosthetics with unbeatably precise fit for crowns, laminates, abutments and bridges.

By combining the Procera® manufacturing technique with Alumina and Zirconia ceramics, an unrivalled combination of biocompatibility, beauty, and strength is guaranteed. Both Alumina and Zirconia refract and transmit light

*Case courtesy; Ernst A. Hegenbarth, MDT*



*Customized Procera®  
Abutment Zirconia*



Case courtesy: Clinic: Clinica Maló, Lisbon.  
Ceramics: Ernst A Hegenbarth, Zen-Line  
Dental.

in much the same way as a natural tooth, thereby giving the restoration a natural looking appearance. In fact, the end result is often an improvement on nature.

### Producing ultimate strength with NobelRondo™

Nobel Biocare's ceramic porcelain NobelRondo™ has been engineered specifically for Procera® and provides ultimate strength and esthetics to crowns, abutments and bridges.

- exceptionally high flexural strength (120 MPa) ensures long-lasting function

- excellent surface homogeneity ensures low wear and an antagonist-friendly performance
- extremely low solubility guarantees indefinite durability in the oral environment
- fine microstructure allows daylight to transmit, refract and disperse and gives the appearance of a natural tooth
- outstanding color stability means long-term esthetics



Procera® Bridge Zirconia:  
Framework Try-in



Procera® Crown Alumina on Procera® Abutment Zirconia veneered with NobelRondo™ Alumina (24) and Procera® Bridge Zirconia veneered with NobelRondo™ Zirconia Ceramics (25-27)



ensuring a healthier smile with

# Soft Tissue Integration™

- Maintaining and regaining gingival contours
- Long-lasting beautiful soft tissue esthetics

For optimum esthetic results, prosthetic treatment should maintain or regain the natural contours of the soft tissue. For implant-supported tooth restorations a beautiful gingival margin relies upon the achievement of a stable soft tissue around the implant.

## Enabling natural integration with TiUnite®

Studies show that the structure of soft tissue around TiUnite® implants resembles that around natural teeth; namely an attachment of the junctional epithelium to the implant surface and firm adherence of the underlying connective tissue.

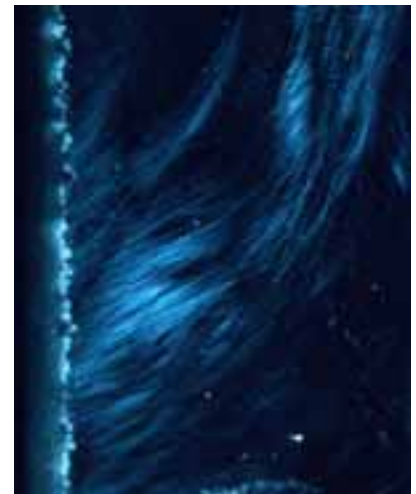
Clinical studies show that TiUnite® has the ability to maintain the marginal bone crest at a higher level than with machined implants, which is believed to stabilize the supracrestal soft tissue.

Macroscopic grooves at the implant collar are another implant feature designed for improved retention of the bone crest by enhanced load transfer to the marginal bone.



*Grooves have been added to the TiUnite® implants for enhanced retention of the marginal bone and support of the soft tissue.*

*Functionally oriented collagen fibrils of the soft tissue directed towards the TiUnite® surface. Courtesy of Dr Rocci, Dr Gottlow, Dr Schüpbach.*



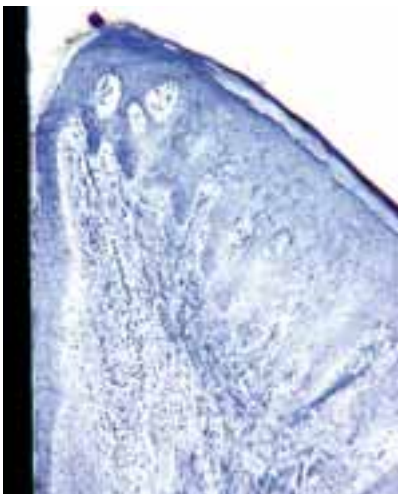


### Flapless surgery

Of course, flapless surgery means less trauma for the patient – less pain, less swelling and less chair time. This minimally invasive technique, in combination with Immediate Function™ also means less trauma for the tissues, which further enhances Soft Tissue Integration™.

### Enhancing the effect with grooves

Groovy, our unique grooved threads, enhances the effectiveness of all our implants. Adding grooves to the collar offers a means for stabilizing the soft tissue around the implant, which is believed to support a healthy and esthetic gingiva.



*Soft Tissue Integration™ of a TiUnite® implant. The image shows junctional epithelium at the implant surface and a shallow sulcus lined by sulcular epithelium. Source: Glauser et al. Clin Implant Dent Relat Res 2005;7(Suppl 1):44-51.*

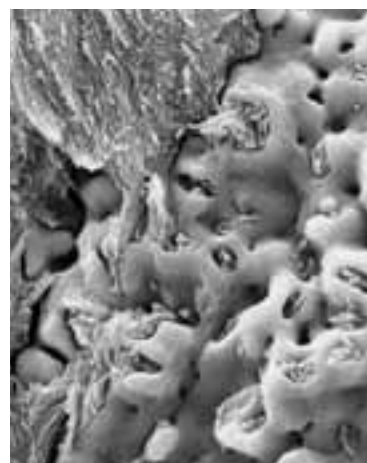
patient or professional, everyone benefits from

# Immediate Function™

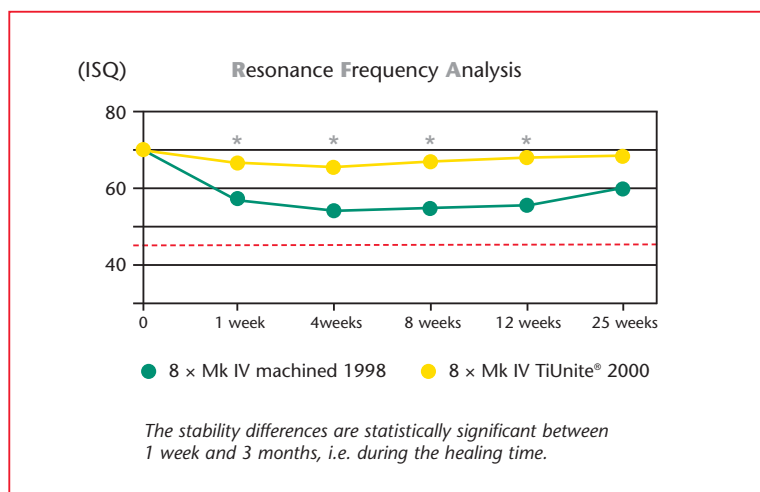
- No healing time required
- Greater patient comfort and shorter treatment time

The proven maintained implant stability is a prerequisite for immediate loading of implants, making it possible for Nobel Biocare to provide a full protocol for Immediate Function™ that's valid for

all indications and bone types. This simple protocol instructs dental professionals on how to select and use the implants and give patients an immediate and functioning tooth in one visit.

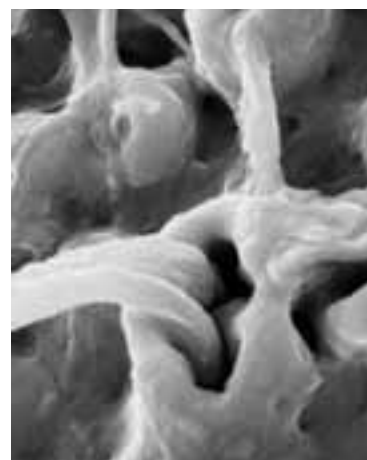


Bone within the pores of TiUnite®.



Resonance frequency analysis of immediately loaded maxillary implants show that initial stability can be maintained at a higher level for TiUnite® implants than for implants with a machined surface.

Source: Glauser et al. *Appl Osseointegration Res* 2001;2:27-29.



Cell extension of an osteoblast (bone-producing cell) anchored in a pore of TiUnite®.





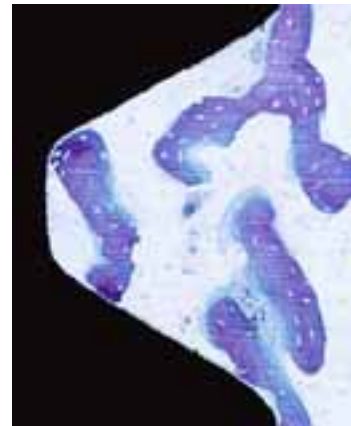
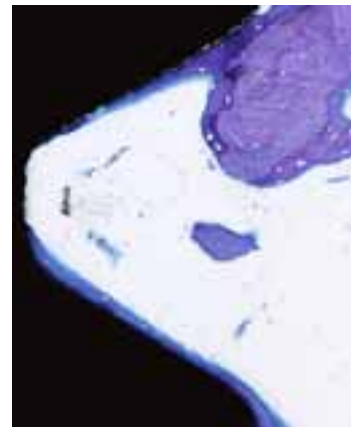
### Uniquely effective TiUnite®

Immediate **Function™** is achieved through the unique properties of our biomaterial TiUnite® in combination with Groovy, which means no healing time is required.

TiUnite® is a highly crystalline and phosphorous enriched titanium oxide. It presents a microstructure without the sharp features characterized by the presence of uniformly

distributed open pores in the low micrometer range. This surface is proven to interact with the biological environment and promote tissue integration.

TiUnite® attracts bone-producing cells, allowing them to proliferate and form bone directly on the surface by osseointegration. The result is a faster rate of osseointegration, and a remarkable ability to maintain the implant stability at a high level throughout healing.



*TiUnite® allows bone to grow by osseointegration along the implant surface (top) whereas bone formation on a machined implant surface (bottom) is characterised by bone apposition towards the surface.*

## Immediate **Function**™

### Increased stability with grooves

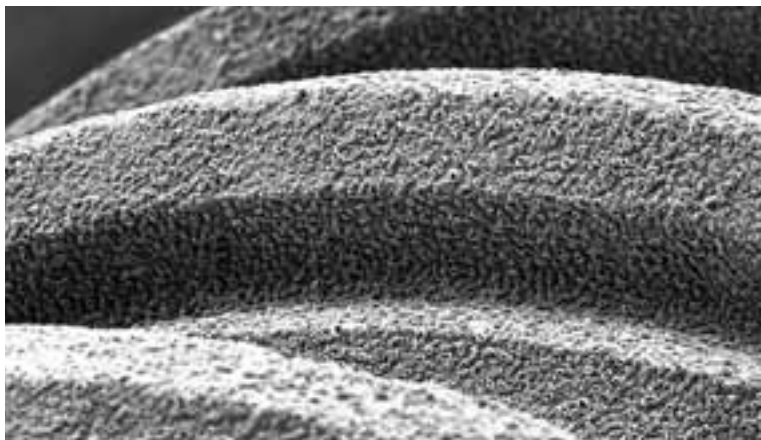
Adding grooves along the threaded portion of the implant brings a new dimension to our TiUnite® implants.

The size of the groove is intermediate to the micro structured TiUnite® surface and the macro design of the implant. The optimally dimensioned groove,

together with the TiUnite® surface, creates a favorable environment for preferential and faster bone formation within and along the groove.

The result is not only further enhancement of the rate of osseointegration, but also up to 30% higher implant stability during healing due to increased mechanical bioanchorage of the implant in the surrounding bone.

The combined effect of TiUnite® and the groove takes the Nobel Biocare implants and Immediate **Function**™ to a new level of effectiveness, and increases safety of implant treatment, especially in non-optimal bone situations.



*The groove at the thread flank takes the TiUnite® implants to a new level of effectiveness.*



*Bone forms more rapidly within the groove than on surfaces without the groove, resulting in faster osseointegration and increased implant stability.*

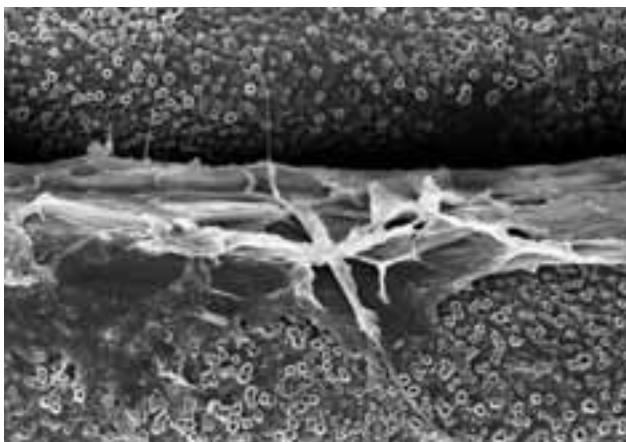
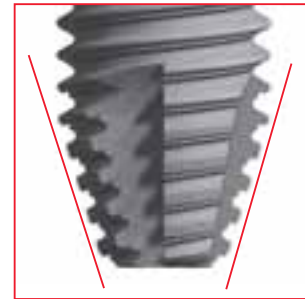


### Extending your range with NobelSpeedy™

Immediate Function™ protocols can be used together with all our implants, provided that primary stability is achieved at time of implant placement. However, in compromised bone conditions it's sometimes difficult to achieve sufficient implant stability. That's why NobelSpeedy™ is specially designed to circumvent this problem.

The NobelSpeedy™ implant features a narrow implant tip with engaging threads. This enables you to place the implant in under-prepared sites and let it work as an osteotome. In this way, good mechanical stability can also be achieved in soft bone, making it possible to use the implant without waiting for the healing process to be completed. Although particularly effective in soft bone conditions, the

NobelSpeedy™ design results in good insertion characteristics in all types of bone. This makes it an easy-to-use implant for many types of indications.

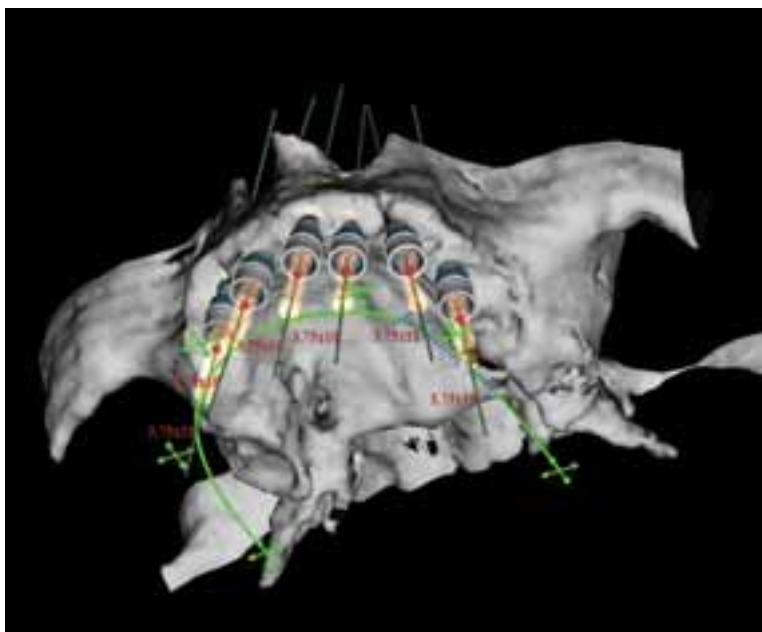


*Bone within the groove of a TiUnite® implant.*

exceeding expectations with

# NobelGuide™

- Easy, safe and predictable
- No healing time required



The ultimate goal of dentistry has always been to enable beautiful working teeth now. In clinical terms, that means the placing of the implant, abutment and the restorative crown or bridge simultaneously. Use NobelGuide™ in combination with your choice of our ceramic abutments, crowns and bridges, and this goal is achieved.



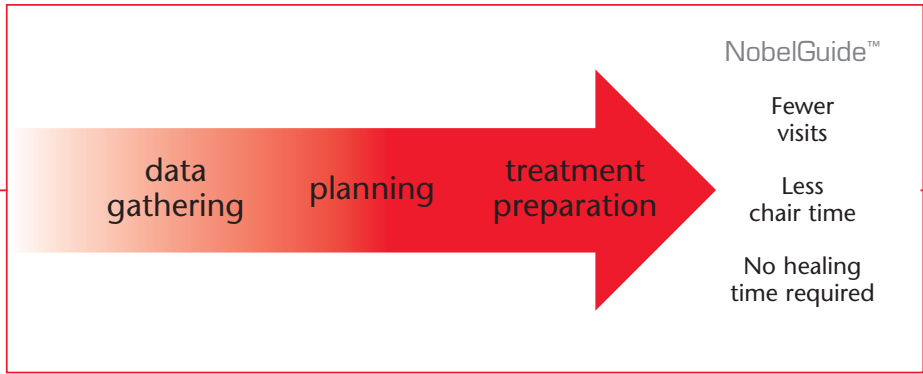
*Insertion of 3 NobelSpeedy™ Replace implants using NobelGuide™ surgical template.*



*Mounting of innovative patented Guided Abutment.*



*Insertion of pre-manufactured Procera® Implant Bridge at time of surgery, completing entire Teeth-in-an-Hour™ concept.*



NobelGuide™ is a revolutionary treatment planning and surgical implementation system enabling you to transfer extraoral planning into the mouth with unrivalled accuracy and ease.

Applicable to any patient indication, by using either conventional modelling or computer-aided 3D design, it shows you the exact position and depth of the implants before surgery. This information

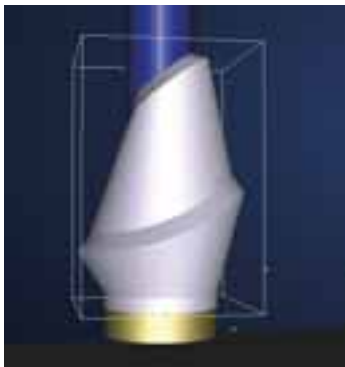
enables Nobel Biocare or your lab to produce a surgical template which guides the flapless procedure from start to completely successful placement.

If you're starting with implants, NobelGuide™ makes placing them a prosthetic solution you can do easily if you've done crowns and bridges.

Use of the guide makes the procedure simple and safe and the pre-made

prosthetics can be used immediately after placement, giving your patient Immediate **Function™** and you immediate opportunities.

Alternatively, if you're a specialist already advanced in working with implants, using NobelGuide™ will enhance your practice productivity and extend the envelope of your implant work. It will enable more patients to leave surgery with working teeth in place and a beautiful smile.



*Freehand 3D modelling of Procera® Abutment in Procera® Software Lab Design.*



“Combining All-on-4 with NobelGuide™ really makes a break-through for the rehabilitation of the totally edentulous jaws: even maxillas with considerable bone resorption can be safely and predictably treated without being an implant specialist.”

**Dr Paulo Maló**

**Case description:**

The All-on-4 Concept, using four implants in edentulous jaws rehabilitation, takes advantage of the benefits of tilting the posterior implants to provide excellent primary stability of implants and optimal prosthetic support for a fixed bridge, with minimum bone volume. This highly esthetic, extremely comfortable and functional fixed bridge can be fabricated in a few hours after surgery. Using the NobelGuide™ applied to the All-on-4 Concept, the bridge can be pre-made and delivered at time of surgery, completing edentulous maxilla rehabilitation in less than an hour.



The combination of the NobelGuide™ Concept with the All-on-4 surgical concept enables you to plan the surgery of a total rehabilitation in a 3D computer environment, using the CT scan data as basis.



All prosthetic procedures are made prior to surgery, enabling the full acrylic bridge to be attached during implant placement.



Totally edentulous maxilla with minimum 5mm bone ridge width and 10mm useful bone height.



A Surgical Template and Drill Guides guide the surgeon safely during the flapless procedure



The all-acrylic immediate bridge is attached at time of implant placement. This highly esthetic and comfortable fixed prosthesis may be used as the permanent prosthesis and gives plenty of time to evaluate and plan for an optional final prosthesis.

## case study

# Single tooth replacement with Immediate **Function**<sup>™</sup> in Extraction Sockets



“The reconstruction after an extracted upper incisor is an esthetic challenge but with the TiUnite<sup>®</sup> surface and Easy Esthetic components one can benefit from the one-time opportunity to preserve bone and soft tissue by flapless surgery and Immediate **Function**<sup>™</sup>.”

**Dr. David A. Gelb**

### Case description:

An upper left incisor was extracted due to a vertical root fracture. At time of extraction a 5 × 16 mm Replace<sup>®</sup> Select Tapered was installed into the extraction site. Immediate **Function**<sup>™</sup> was applied by cementing a temporary crown and the Easy Esthetic procedure was later finalized with a highly esthetic permanent crown. This patient had only one surgical visit and was at no time without a tooth.



After determining a root fracture, this root was gently and atraumatically extracted.



The extraction site was prepared and a Replace<sup>®</sup> Select Tapered implant installed. An Easy Abutment<sup>™</sup> was attached.







A temporary crown was fabricated chair-side and cemented less than one hour after the extraction took place.



Time for final impression – after 6 months – showing excellent soft tissue conditions.



Final crown in place with perfect soft tissue contours. (Final prosthesis courtesy of Dr. Susanne M. Gelb DDS.)

## case study

## NobelGuide™ using model-based planning



“NobelGuide™ allows you to make detailed and precise planning and have a safe and simple treatment procedure: you no longer need to be an expert to place implants.”

**Dr Hadi Antoun**  
**Dr Truong Nguyen**

### Case description:

An upper second premolar was extracted due to a root fracture and the implant prosthesis was planned and placed assisted by NobelGuide™ Model-based. Easy Esthetics was accomplished via the Abutment being placed and adjusted on the model along with a pre-produced temporary crown. A NobelReplace® Tapered Groovy RP implant was placed using the flapless procedure, exact positioning and high stability. The products and procedures support both Immediate Function™ and Soft Tissue Integration™.



Tooth 15 was extracted due to a root fracture.



The mapping of the soft tissue thickness is transferred to stone model.



An Implant Replica is placed in the stone model and a Surgical Template is fabricated, using NobelGuide™ components.



An Esthetic Abutment is placed and adjusted and a temporary crown is produced.



Flapless surgery using the Surgical Template for exact positioning.



The Esthetic Abutment placed at implant installation. Note the lack of bleeding.



The pre-made Temporary crown in place.

## case study

# Esthetically demanding case using NobelDirect® 3.0



“Restoring a missing upper lateral in a healed site is esthetically demanding, but with flapless surgery and using a NobelDirect® one-piece implant you can create a new gingival margin for long-term esthetics.”

**Dr. Roland Glauser**

### Case description:

A missing upper lateral in an esthetically demanding case, was restored using a NobelDirect® 3.0 implant. The one-piece implant pillar and flapless surgery procedure gave optimal conditions for Soft Tissue Integration™ and a highly esthetic final crown could be delivered 6 months after implant placement.



Missing upper lateral in a high esthetical demanding case.



Site preparation using flapless procedure.



A NobelDirect® one-piece implant is placed.



Temporary crown for soft tissue adaptation.



Six months post operatively a highly esthetic crown was cemented. (CDT Bertrand Thiévent, Zürich, Switzerland.)



Excellent soft tissue margins are even further improved at 18 months follow-up.

## case study Procera® on teeth



“Worn and discolored prosthetic teeth can easily be made beautiful with Procera® Bridge Zirconia and NobelRondo™: the ceramic bridge and the ceramic porcelain transmit, refract and disperse light in much the same way as a natural tooth and give a beautiful looking appearance.”

**Dr Oliver Hanisch**

### Case description:

Two PFM bridges in the upper frontal region needed to be replaced due to esthetic reasons.

Utilizing Easy Esthetics, two Procera® Bridge Zirconia were fabricated and cemented giving a highly esthetic result.



Worn and discolored bridges in the upper front of the maxilla.



Preparation on teeth for two 3-unit Procera® Bridge Zirconia following ovate pontic site development



Two Procera® Bridge Zirconia veneered with NobelRondo™ Zirconia and ready to be cemented.

*Dental technician Mr Volker Weber, Aachen, Germany*



Beautiful Teeth Now™, two Procera® Bridge Zirconia in place. Note the excellent soft tissue adaptation.

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