

Exceptional in every respect  
Solutions you and  
your patients can trust



20 First  
for  
65 50  
years



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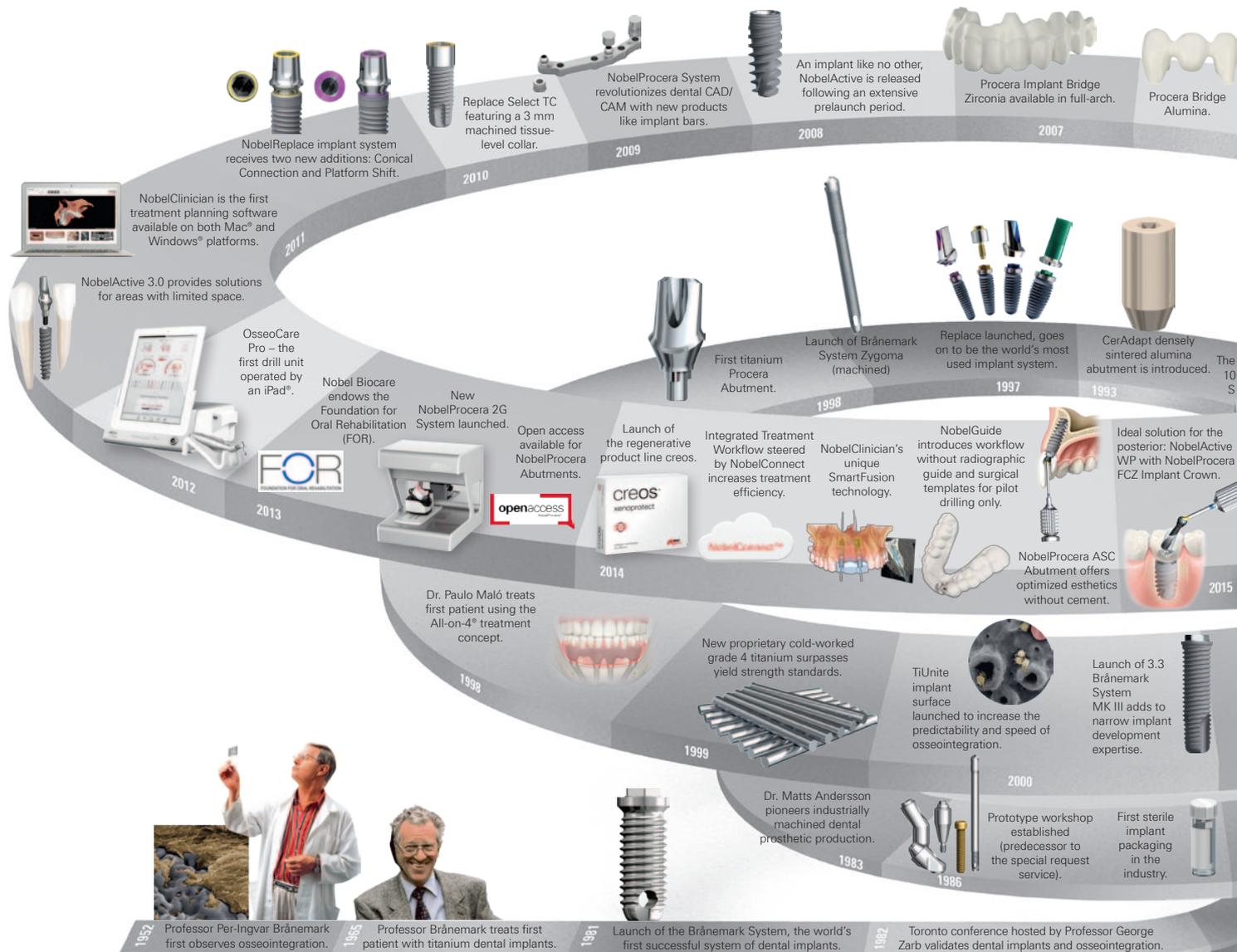
# Exceptional on every page

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# Meaningful innovation since 1952

**At Nobel Biocare, we're dedicated to helping you treat more patients better. This philosophy is built on over 60 years of continuous innovation, all stemming from Per-Ingvar Brånemark's ground-breaking work with osseointegration in 1952.**

Since then, we've assisted our customers in the treatment of millions of patients. Today, this unparalleled experience goes into helping dental professionals provide patients with a better smile, better speech, and better oral health – not to mention the ability to eat normally again. You, and your patients, can be confident that Nobel Biocare solutions provide fully functional, natural-looking results that aspire to last a lifetime.

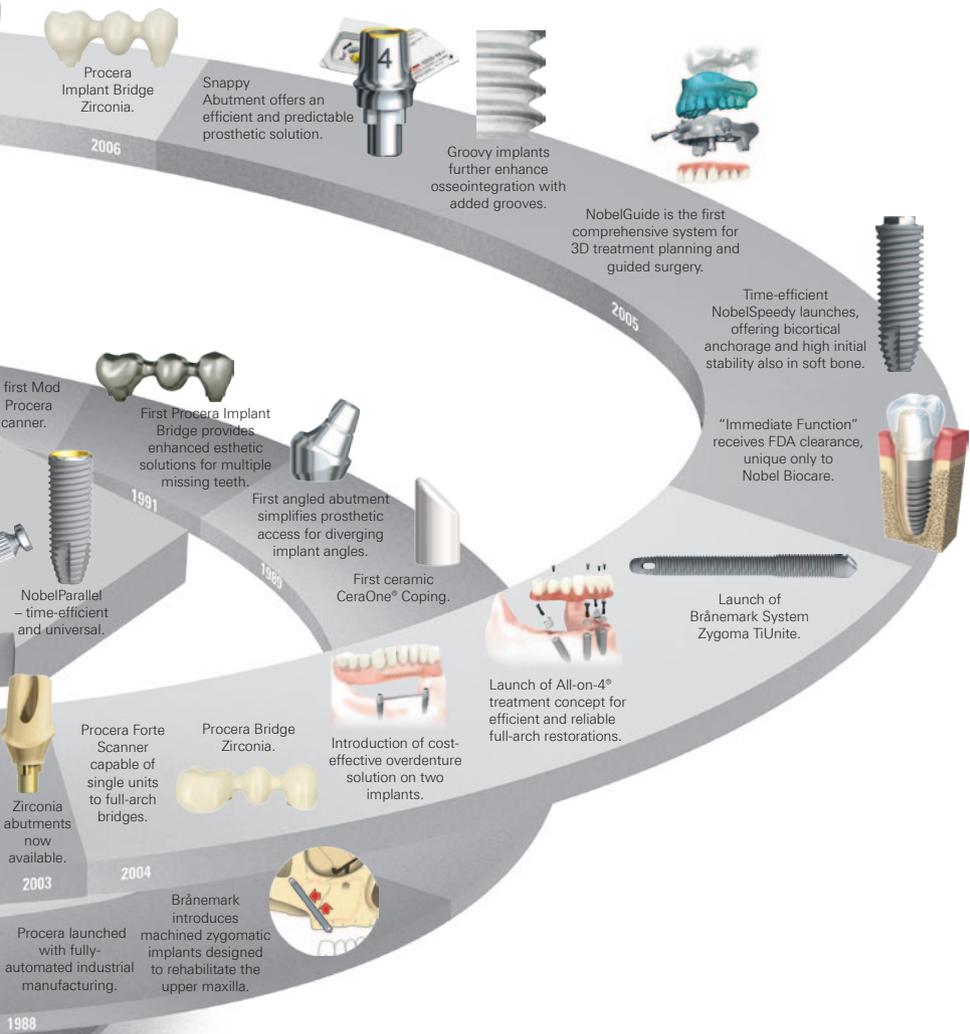


“No one should die with their teeth sitting in a glass of water.”

Prof. Per-Ingvar Brånemark



In 1952, Professor Per-Ingvar Brånemark discovered that titanium integrates with bone. In 1965, he and his team performed the first implant surgery. His first patient, Gösta Larsson, died in 2006, with his implants still intact and his teeth still functioning.



**Industry firsts**

- Industrial production of dental implants.
- Industrial production of individualized CAD/CAM restorations.
- Digitization of dental implantology by introducing the first comprehensive concept for 3D treatment planning and guided surgery.

**18,000,000+**  
 Nobel Biocare implants inserted worldwide to date.

**15,000,000+**  
 TiUnite implants inserted worldwide to date.

**5,500,000+**  
 Components produced worldwide per year.

**4,400+**  
 Independent scientific publications with data on Nobel Biocare products and solutions.

Nobel Biocare is the pioneer of osseointegration, introducing many of the products and solutions that have become industry standard. Unlike others, we do not claim that all products in dental implantology have already been developed to perfection. We believe strongly in innovation and will continue to bring you new solutions that meet the latest and highest standards of patient care. We currently invest about 11% of our sales in research and development, representing the highest level of investment among major companies in our industry.

# Tried and tested solutions you can trust

**Nobel Biocare is committed to the highest standard of scientific evidence in the spirit of our pioneers. Our products are proven both in mechanical testing and clinical studies.**

## Scientific leadership since the very beginning

Our products have proven themselves in everyday clinical practice since Per-Ingvar Brånemark placed the first implant in 1965. Gösta Larsson was the first patient in a clinical study that eventually included 211 patients, 235 jaws and 1618 titanium implants. At that time, implant treatment was neither well known nor accepted. It required scientific evidence to convince the medical community that implant treatments were safe, reliable and enduring. P.I. Brånemark published this evidence in 1977 in his book called "Osseointegrated implants in the treatment of the edentulous jaw. Experience from a 10-year period". Today, implant-based oral rehabilitation sets the standard of care, and Nobel Biocare products are among the most documented in the world. There are more than 4400 independent scientific publications with data on our solutions. Our Brånemark System implant has been in clinical use for over 45 years. And our moderately rough implant surface TiUnite has been documented in over 275 publications on clinical studies, with more than 13,000 patients, 42,000 implants and up to 12 years' follow-up.

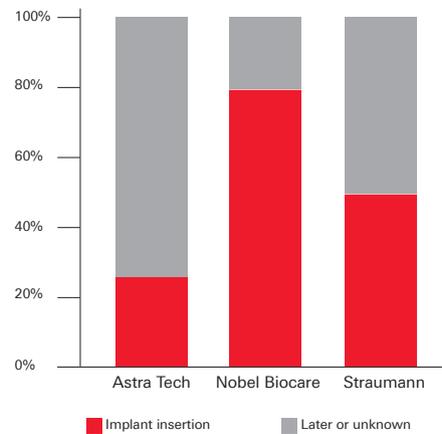
## High reporting standards

Studies on Nobel Biocare products follow very high reporting standards. Unlike many other implant providers, we set the radiographic baseline at implant insertion rather than at prosthetic delivery a few weeks or months later. This means that we report total marginal bone level change without omitting the pronounced initial bone response to implant surgery.

High cumulative survival rates (CSR) of TiUnite implants in long-term follow-up studies

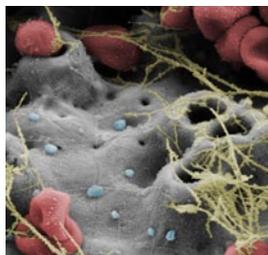
Study	Follow-up	CSR
Östman et al. 2012 <sup>1</sup>	10 years	99.2%
Degidi et al. 2012 <sup>2</sup>	10 years	97.3%
George et al. (2011) <sup>3</sup>	Up to 9 years	99.0%
<b>Weighted mean</b>	7–10 years	98.1%
From 13 studies <sup>1–13</sup>		mean follow-up

High reporting standards: Nobel Biocare does not omit the initial bone remodeling phase

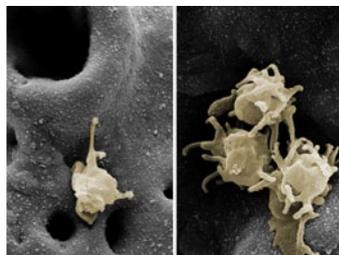


Bar graph shows the frequency of the various radiographic baselines utilized. Only by setting the baseline at implant insertion can the study report the full marginal bone level change.<sup>14</sup>

## The fast osseointegration of TiUnite allows for Immediate Function protocols



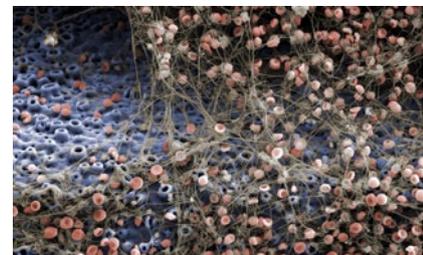
Immediate platelet attraction by the TiUnite surface.



Platelet activation and formation of pseudopodia.



Hemostasis by the newly formed fibrin matrix.



Blood clots adhere to the moderately rough TiUnite surface.

### Not all implants are the same

The notion that dental implants are a “mature” treatment, and that scientific evidence is therefore less relevant, is emerging from a number of implant providers. Although dental implants may look similar, their performance is not the same. One dental practice had to learn this the hard way. When they switched from implants with TiUnite surface to implants with a chemically altered surface, their quality control study revealed a doubling of their implant failure rate, even after excluding the first 100 implants due to the learning curve. This triggered an immediate switch back to TiUnite implants, which saw failure rates return to normal levels.<sup>15</sup>

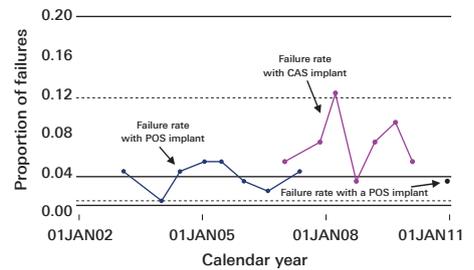
### Careful material selection and thorough testing

We choose all materials, whether they're metals, ceramics or plastics, very carefully. Everything has to meet the highest standards including biocompatibility, strength and longevity. The commercially pure titanium used for our implants, for example, is much stronger than regular c.p. titanium. We increase its strength significantly through our proprietary cold-working process. All our products undergo thorough testing according to ISO standards, helping to ensure that they withstand the test of time.

### Produced according to ISO standards

Your patients want only the very best products to go into their mouths. All Nobel Biocare products, including our NobelProcera individualized prosthetic restorations, are developed and produced according to the Medical Devices Quality Management System ISO 13485. This means that our processes are regularly audited by the notified body BSI and inspected by competent authorities such as the US Food and Drug Administration (FDA).

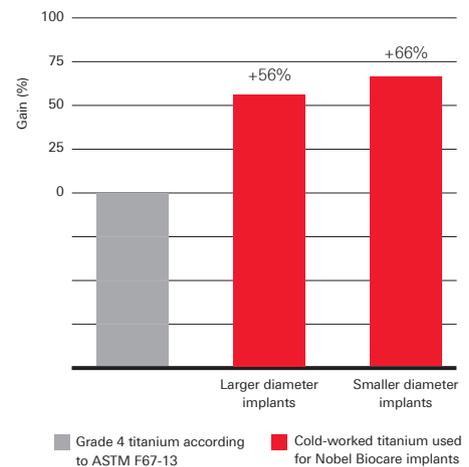
### Comparative study reveals superiority of TiUnite



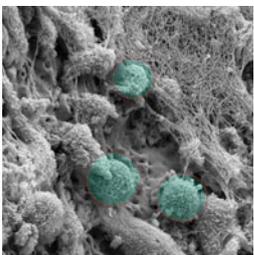
Significantly higher failure rate with implants with a chemically altered surface (CAS) than with TiUnite implants (POS – porous oxidized surface).<sup>15</sup>

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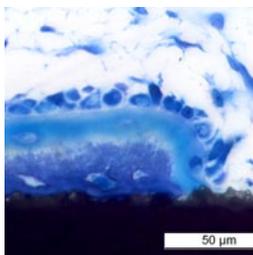
### Nobel Biocare's titanium is much stronger than regular c.p. titanium



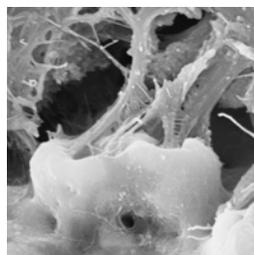
Nobel Biocare's proprietary, cold-working process produces c.p. titanium with significant gains in tensile strength.



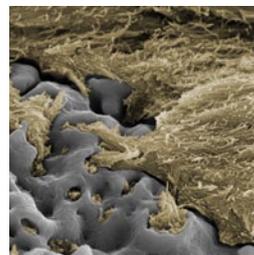
Formation of provisional extracellular matrix.



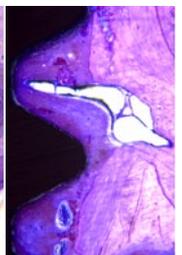
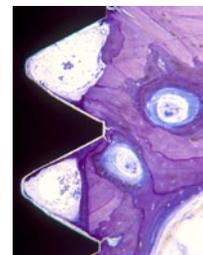
Contact osteogenesis directly on and along the TiUnite surface.



Bone anchorage in the TiUnite pores.



Osteoconductive bone formation.



Osseointegration after 4 weeks and 6 months.

# The broadest product portfolio for all your needs and preferences

**Nobel Biocare offers around 3000 products, all designed to help you treat more patients better. Are that many really necessary? Do we need 17 different implant designs, each of them available in various diameters and lengths? We think so. In fact, we're going to offer even more.**

## **For every indication, treatment protocol and patient need**

Get all the dental solutions and treatment concepts you need from a single source. Whether your patients are missing a single tooth in the posterior, demand a highly esthetic anterior restoration, or need a full-arch restoration in order to speak and eat properly again, we have the products you need to treat them. However, what is state of the art today is not necessarily a leading solution tomorrow. That's why we at Nobel Biocare believe strongly in innovation. We will continue to bring you new products and solutions that meet the latest and highest standards of patient care. We currently invest about 11% of our sales in research and development, representing the highest level of investment among major companies in our industry.

## **From root to tooth**

Nobel Biocare offers implants for all indications and preferences – with straight and tapered designs, with machined and textured collars, and with three different connections. We have both prefabricated temporary and final abutments, as well as individualized CAD/CAM prosthetics. From final abutments and screw-retained crowns to fixed and fixed-removable multiple-unit and full-arch restorations, we've got everything you need for optimal function and esthetics. And don't forget: After decades of empowering you to treat more patients better, we also have the complete range of instruments and tools to help you carry out all treatment steps safely and efficiently.



Single-tooth restoration with NobelActive and cement-retained NobelProcera Crown

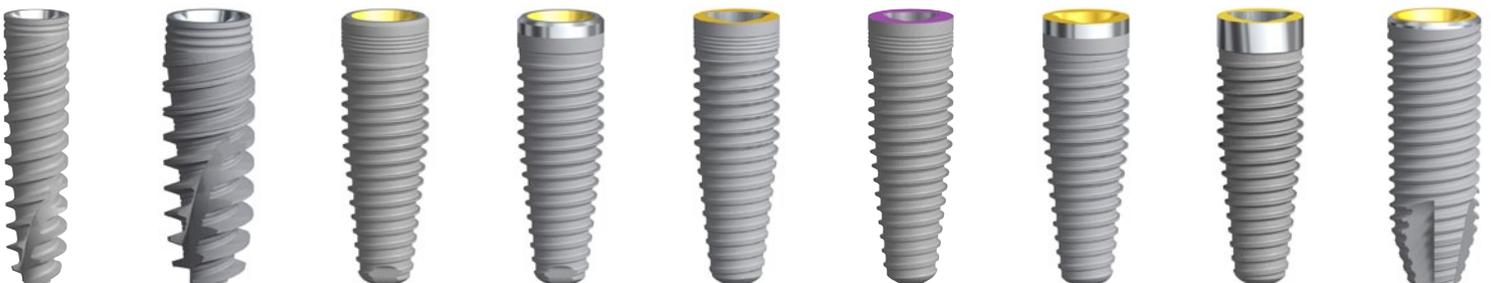


Multiple-unit restoration with NobelReplace Tapered and screw-retained NobelProcera Implant Bridge



Full-arch restoration with the All-on-4® treatment concept

## **The right implant for every indication and preference**



### Superior biomaterials

The release of our creos xenoprotect membrane in 2014 marked the launch of Nobel Biocare's new range of products for guided bone and tissue regeneration. Research shows that creos xenoprotect has slower biodegradation and increased vascularization in an animal model than the market leader.<sup>16</sup> In addition, creos xenoprotect shows minimal size increase when hydrated,<sup>17</sup> and its higher tensile strength provides outstanding handling properties in terms of resistance to tearing when stretched or sutured. For the North American market, we also offer the full range of allografts.

### Unique treatment planning software

Discover a truly visual way to achieve optimal treatment results. The unique SmartFusion technology of our NobelClinician Software combines hard and soft tissue information from your (CB)CT scanner and the NobelProcera 2G System, visualizing everything you need to see for optimized treatment planning. In addition, NobelClinician was the first treatment planning software available for both Mac® and Windows®.

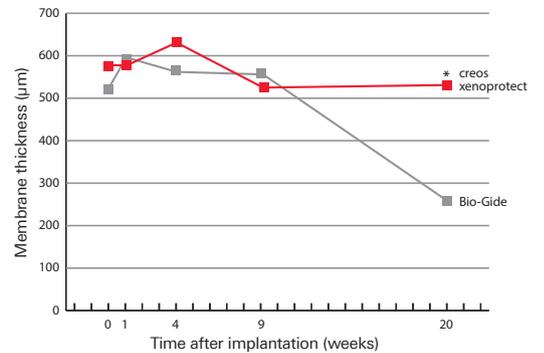
### Efficient integrated treatment workflow

The digitization of dentistry, including the seamless interaction between all partners of the treatment team, is advancing rapidly. And Nobel Biocare has probably come further than anyone else. The integrated treatment workflow connects the treatment planning software NobelClinician, the NobelProcera 2G System, NobelGuide and the iPad® operated drill-unit OsseoCare Pro, providing you with a seamless process from diagnosis to restoration.

### We'll be there, no matter what

Our aspiration is to design and produce products that last a lifetime. However, if you need to revise a solution that was phased out years ago, you and your patients can rely on our global presence and our extensive replacement parts offering. And, if you face indications that cannot be treated with standard products, we offer custom-made devices that are tailored to fit a unique and one-time patient need.

Slower biodegradation with creos xenoprotect



Between weeks 9 and 20, the thickness of creos xenoprotect decreases only slightly, whereas Bio-Gide® shows a thickness loss of around 50% (graph adapted from Bozkurt et al. 2013).<sup>16</sup>  
\*  $P=0.0002$



Digital treatment planning both for Mac® and Windows® with NobelClinician Software.



On all Nobel Biocare implants including prefabricated prosthetic components. For further information visit [nobelbiocare.com/warranty](http://nobelbiocare.com/warranty)



# The whole is greater than the sum of its parts

**At Nobel Biocare, we don't develop individual products, but entire solutions that provide fully functional, natural-looking results that aspire to last a lifetime. All components complement each other in a precisely harmonized system to meet the requirements of long-term clinical performance and cost efficiency for both clinician and dental laboratory.**

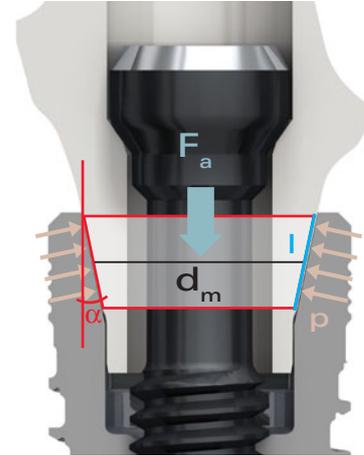
## Designed and tested as complete systems

A key aspect of performance assessment is that a system is only as strong as its weakest link, and that the performance of any component depends not only on the component itself, but also on its interactions within the system. As a result, the appropriate test of any component is within the system it is part of. For this reason Nobel Biocare conducts research and testing not only on individual components such as implants, abutments and screws, but always on the entire system too. Only with this approach can we ensure that our solutions function safely and reliably for many years.

## The importance of a perfect fit

All our restorations, be they on Nobel Biocare or other implant systems, are designed for a precise fit between abutment and implant. Selecting an abutment with a precise fit is decisive for system performance, as this ensures that occlusal forces are distributed evenly and that uncontrolled peak stresses are avoided. Any mismatch can lead to extreme load and stress conditions that may cause individual components or the entire system to fail.

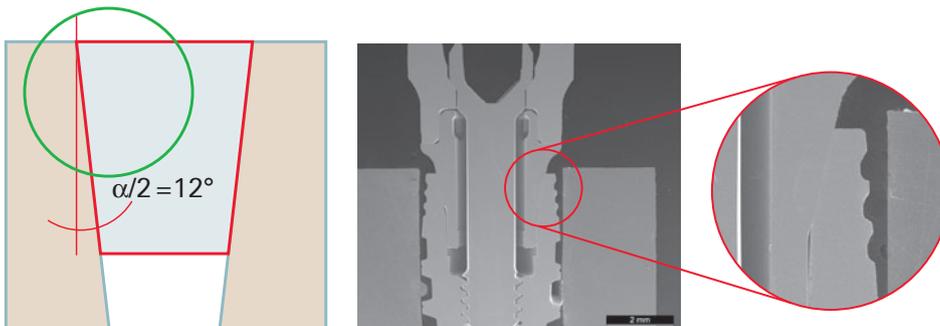
Precise fit ensures long-term performance



$$p = \frac{F_a * \cos(\rho) * \cos\left(\frac{\alpha}{2}\right)}{d_m * \pi * l * \sin\left(\rho + \frac{\alpha}{2}\right)}$$

Joint compression ( $p$ ) depends on a number of variables such as preload (tensile force  $F_a$ ), friction angle ( $\alpha$ ) and contact length ( $l$ ). Small changes in any of these parameters can lead to extreme load and stress conditions, which can cause implants to fracture.

**Precisely harmonized system with an even distribution of forces – NobelProcera Abutment on NobelActive implant with conical connection**



Perfect fit between abutment and implant collar. Forces are evenly distributed and uncontrolled peak stresses are avoided.

**Optimized to the last detail – why the clinical screw matters**

Nobel Biocare abutments are delivered with a dedicated clinical screw that has been optimized for the implant-abutment system that it's part of. Depending on the abutment, connection type and platform size, screws come with or without a surface coating. The absence or presence of the coating and the coating type all impact the preload (the tensile force created when tightening the screw). At Nobel Biocare the selection of the appropriate screw type is individual for each and every implant-abutment system, ensuring a tight and stable fit for long-term performance.

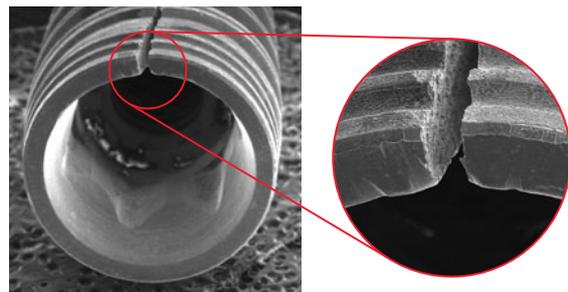
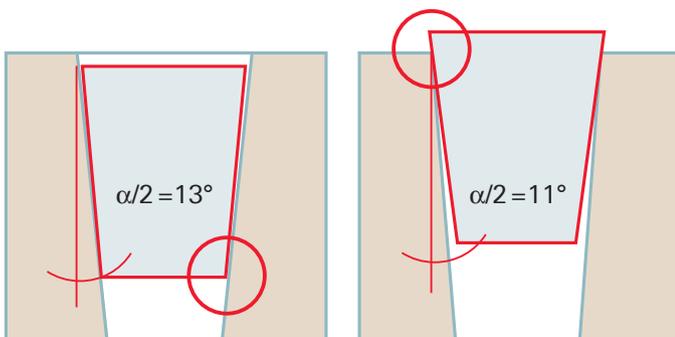
**Substitutes can put patients at risk**

The use of substitute components means that the parameters governing system performance are no longer controlled. In the example of maximum joint compression, which defines the load that the implant collar can bear, a substitute may result in a force that is higher than the allowed maximum, causing the implant to fracture. To avoid this, the peak forces have to be distributed in a controlled way. This can only be achieved by using high-quality and precision-manufactured components that have been designed for, and tested with, the system they are a part of.<sup>18</sup>



Clinical screw with unique diamond-like carbon coating (TorqTite). Depending on the abutment, connection type and platform size, screws are with or without coating, ensuring a tight and stable fit between abutment and implant.

**Mismatching components result in uncontrolled forces, which can cause individual components or the entire system to fail**



Mismatching components can lead to uncontrolled peak forces, which can cause implants to fracture.

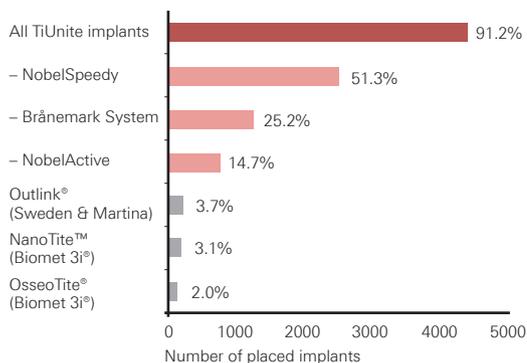
## Best in class – All-on-4® treatment concept

**The All-on-4® treatment concept is the best in its class of solutions. But only when Nobel Biocare products are combined. Many have tried to mirror this ground-breaking concept, but only we have the documented long-term success to back it up. Nobel Biocare and All-on-4® – the proven formula for success.**

### Why choose the All-on-4® treatment concept?

- Offers your patients immediate improvement in function, phonetics and esthetics.<sup>19</sup>
- Shorter treatment time and reduced costs compared with conventional implant treatment modalities.<sup>20</sup>
- Favorable bone levels for tilted and axial implants.<sup>21</sup>
- High survival rates with up to 10 years follow-up in the mandible and 5 years in the maxilla.<sup>22,23</sup>
- Maximizes anterior-posterior (AP) spread, while avoiding important anatomical structures.
- Helps avoid complex and unpredictable grafting procedures, increasing the likelihood of patient acceptance.
- High stability with just four implants.<sup>24</sup>
- Your satisfied patients help grow your practice by word of mouth.

### TiUnite implants are the implants of choice for the All-on-4® treatment concept



Systematic review of clinical studies on All-on-4® treatment concept until August 3, 2012 (13 of 487 initially identified papers met the inclusion criteria). Nobel Biocare implants with TiUnite surface are predominantly used for this type of full-arch restoration (adapted from Patzelt et al. 2013).<sup>25</sup>



### Immediate patient satisfaction with Immediate Function

Thanks to their design and dedicated drilling protocols, Nobel Biocare implants achieve a high stability at insertion, which is maintained during osseointegration by the TiUnite surface and patented grooves.<sup>26,27</sup> Our implants can therefore be loaded with a provisional restoration on the day of surgery, provided that the required installation torque can be achieved.

**Get a handle on perfect positioning**

The Multi-unit Abutment is delivered with a patented, pre-mounted holder for superior handling. This doubles as a guide for checking abutment angulation.



**Provide optimized esthetics**

Enjoy easy handling and long-term predictability with the precision fit of a NobelProcera CAD/CAM restoration. The unrivaled product quality allows the All-on-4® treatment concept to deliver patient satisfaction.<sup>19</sup>



**Choose the original Multi-unit Abutment**

Nobel Biocare has been producing Multi-unit Abutments since 2000.

**Ideal for small spaces**

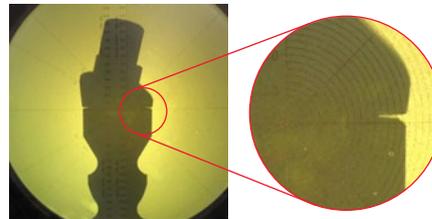
Short cone for limited interocclusal space.

**Secure passive fit**

Wide shoulder for easy positioning of the prosthetic restoration.

**For all tissue biotypes**

Both straight and angled variants are available in different collar heights.



**Avoid unnecessary risks**

Optical comparison shows a 50 micron gap between Multi-unit Abutment (top) and "compatible" third-party impression coping (bottom).



NobelProcera Implant Bridge Titanium



NobelProcera Implant Bridge Zirconia



NobelProcera Hybrid Bar



NobelProcera Implant Bar Overdenture

# Implants like no other – example: NobelActive®

**NobelActive is the ideal implant when you're faced with demanding indications and protocols. You can rely on its high primary stability and soft and hard tissue preservation – even in soft bone, the esthetic area and in extraction sockets with immediate or delayed loading.**

## Access to innovative restorative solutions

Take advantage of innovative solutions available only for Nobel Biocare's conical connection. These include the cement-free NobelProcera ASC (angulated screw channel) Abutment and the NobelProcera FCZ (full-contour zirconia) Implant Crown.

## Natural-looking esthetics

The back-tapered coronal design and built-in platform shifting are designed to maximize bone and soft tissue volume.

## Strong conical connection

The advanced internal conical connection with hexagonal interlocking offers high mechanical strength.

## Enhanced osseointegration

Unique oxidized TiUnite surface with grooves maintains implant stability through faster bone formation and promotes long-term success.<sup>1,7,26,27</sup>

## Bone preservation

Drilling blades on the apex enable smaller osteotomy.



### Often copied, never equalled

Since its introduction in 2008, implant companies all over the world have discovered the unique benefits of the NobelActive implant. There are now quite a few clones available, but none of them have the broad range of applications, the comprehensive prosthetic assortment and the convincing clinical evidence of the original. Clinical studies on NobelActive contain data with 2,500 implants in more than 900 patients. These range from single-unit to full-arch restorations, use different protocols, and have follow-up times up to a mean of 4 years.

### Stable bone levels with healthy soft tissue

The insertion of NobelActive shows minimal bone remodeling in the healing phase followed by stable or increasing bone levels.<sup>28-31</sup> The implant design and conical connection with built-in platform shifting result in less crestal bone change.<sup>30,31</sup> And the papilla size improves significantly during the first year and is followed by stable papilla conditions.<sup>28,29,32</sup>

### For Immediate Function and challenging cases

The unique implant design ensures high primary stability even in soft bone and fresh extraction sockets.<sup>28-30,33-35</sup> Studies show that NobelActive is a reliable implant for Immediate Function protocols<sup>28,32</sup> as well as challenging cases such as osteoporotic bone<sup>36</sup> and severely atrophic jaws.<sup>37</sup>

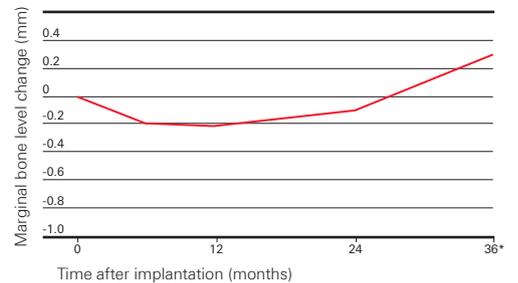
### For narrow spaces

NobelActive is available as true 3.0 mm implant for reliable replacement of lateral incisors in both jaws and of mandibular central incisors. It is also a predictable treatment when these teeth are congenitally missing.<sup>38</sup>

### For full-arch restorations

NobelActive is also indicated for full-arch restorations with the All-on-4<sup>®</sup> treatment concept,<sup>39</sup> including significantly shorter treatment times and lower treatment costs than conventional implant treatment modalities.<sup>20</sup>

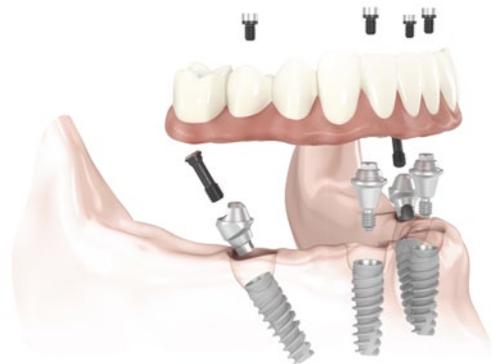
Stable or increasing bone levels



Minimal marginal bone change after implant insertion followed by stable or increasing bone levels – also in demanding protocols such as Immediate Function in extraction sites (\*not significant).<sup>28</sup>



NobelActive 3.0 for limited anterior spaces



NobelActive for efficient and reliable full-arch restorations

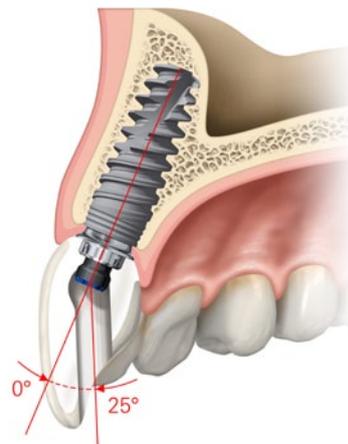
# Innovations, not imitations

## – NobelProcera® restorations

**No one knows industrially produced CAD/CAM like we do. Nobel Biocare was the first to produce restorations in this way. Over 30 years and more than 11 million units later, NobelProcera remains a leader in the precision engineering and manufacturing of medical device restorations.**

### Precision-manufacturing at its best

Nobel Biocare products and solutions aspire to give patients functional and natural-looking tooth restorations to last a lifetime. We approach the development of each new product with advanced engineering, thorough verification, validation and specialized manufacturing strategies and tooling. The results of these efforts are a consistent precision of fit and exceptional product quality. In studies with a follow-up of five years, survival rates of Nobel Biocare CAD/CAM abutments and implant bridges have consistently reached 100%.<sup>40-45</sup> In a single study with 10 years' follow-up, the survival rate was an outstanding 95.6%.<sup>46</sup>



Screw-retained at its best – the NobelProcera Angulated Screw Channel (ASC) Abutment offers optimized esthetics without cement.

**From single-unit to full-arch restorations – Nobel Biocare offers the full range of screw- and cement-retained solutions.**



**Perfect fit is essential**

The NobelProcera interface is designed for a precise fit between abutment and implant. Although not visible to the naked eye, mismatching components lead to uncontrolled peak loads on the implant collar, which may cause implants to fracture. Micro gap measurements confirm that Nobel Biocare produces restorations with a perfect fit, be it on Nobel Biocare or on other major implant systems.\*

**NobelProcera Abutments for other implant systems**

Scientific evaluations consistently demonstrate the high quality of NobelProcera products. These investigations show that NobelProcera Abutments on non-Nobel Biocare implants also provide excellent abutment seating and a comparable rotational play.

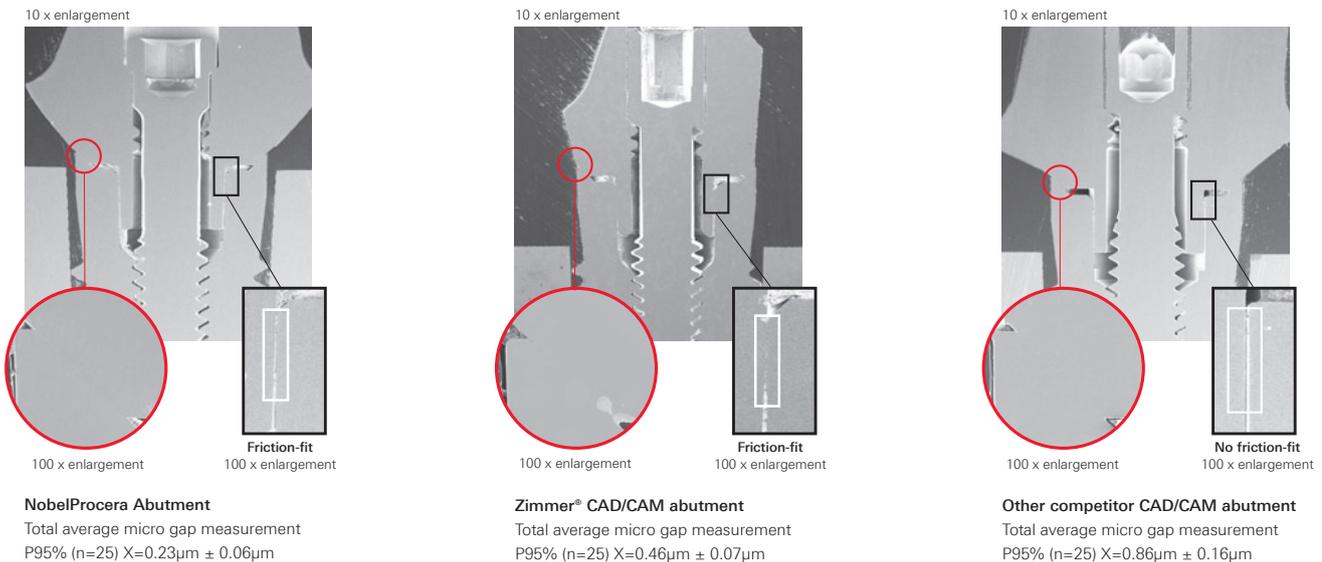


Thorough quality controls ensure that NobelProcera restorations are ready-to-use (production plant in Chiba, Japan).



All NobelProcera products are delivered with authenticity labels for the patient, clinician and dental laboratory. In addition, an extensive warranty covers both the restorations and implants, including implants not from Nobel Biocare.

Cross-sectional SEM images of a Zimmer® 4.5 implant highlight the precise fit and friction-fit of the NobelProcera Abutment over the critical interface area of the implant\*



\*Nobel Biocare uses an external accredited institute for production of cross-sections and micro gap measurement (SEM).

# The full range of full-arch solutions

**Nobel Biocare has set the standard in integrated solutions for the treatment of edentulous and soon-to-be edentulous patients. Choose from a comprehensive range of implant-based fixed and fixed-removable restorations that can be custom-designed to meet each patient's specific needs.**

## **Broadest range of treatment solutions from one source**

Per-Ingvar Brånemark treated his first patient Gösta Larsson with a full-arch restoration in 1965. Since then, Nobel Biocare has developed a full range of treatment options. Choose the best solution for each of your patients, taking into account the remaining bone volume, esthetic requirements, the patient's financial situation and their ability to maintain their restoration.

## **Graftless solutions for rapid improvement in quality of life**

Edentulous patients tend to have a certain age. It makes a world of difference to them whether they get fully functioning teeth on the day of surgery or a year later. Nobel Biocare has developed various concepts that avoid lengthy and unpredictable bone grafting procedures, such as restorations on short implants, the All-on-4® treatment concept and Brånemark System Zygoma for the severely resorbed maxilla.

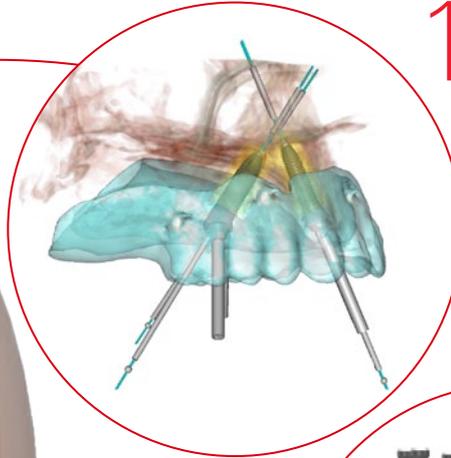
## **Digital precision with NobelGuide**

NobelGuide was the first complete concept for 3D treatment planning and guided surgery. Today, it is still the benchmark for prosthetic-driven treatment planning and predictable implant placement with custom-manufactured surgical templates.



## 1 Treatment planning

Edentulous cases can be planned with NobelClinician Software and performed using the NobelGuide treatment concept, ensuring accurate planning and implant placement. NobelClinician is also an excellent tool for communication with patients and the entire treatment team.

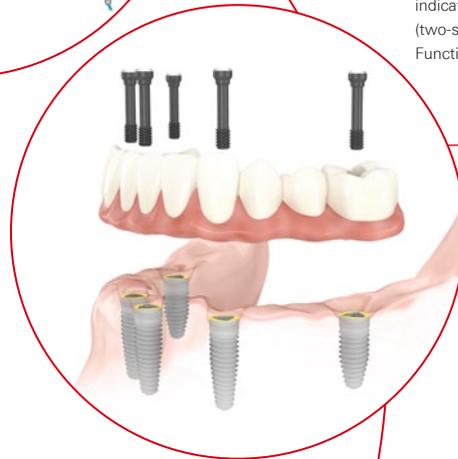


## 2 Surgery

An extensive assortment of bone- and tissue-level implants is available for all indications, bone types and protocols (two-stage, one-stage and Immediate Function).

### Fixed

Implant bridges are individually designed for optimized veneering support and excellent esthetics. They are available in zirconia and titanium and are compatible with Nobel Biocare implants and other major implant systems.



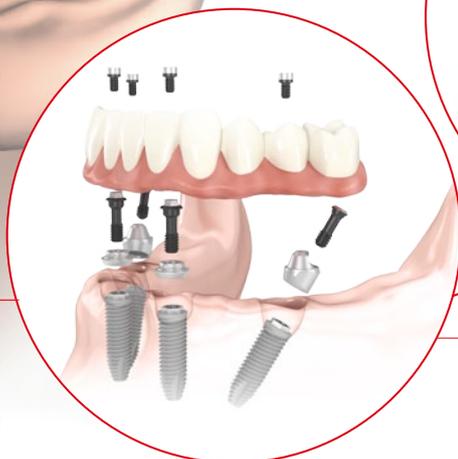
### Fixed-removable

Nobel Biocare offers a broad range of implant bars and attachment types that provide safe and reliable solutions for all clinical and budgetary needs—both for Nobel Biocare implants and other major implant systems.



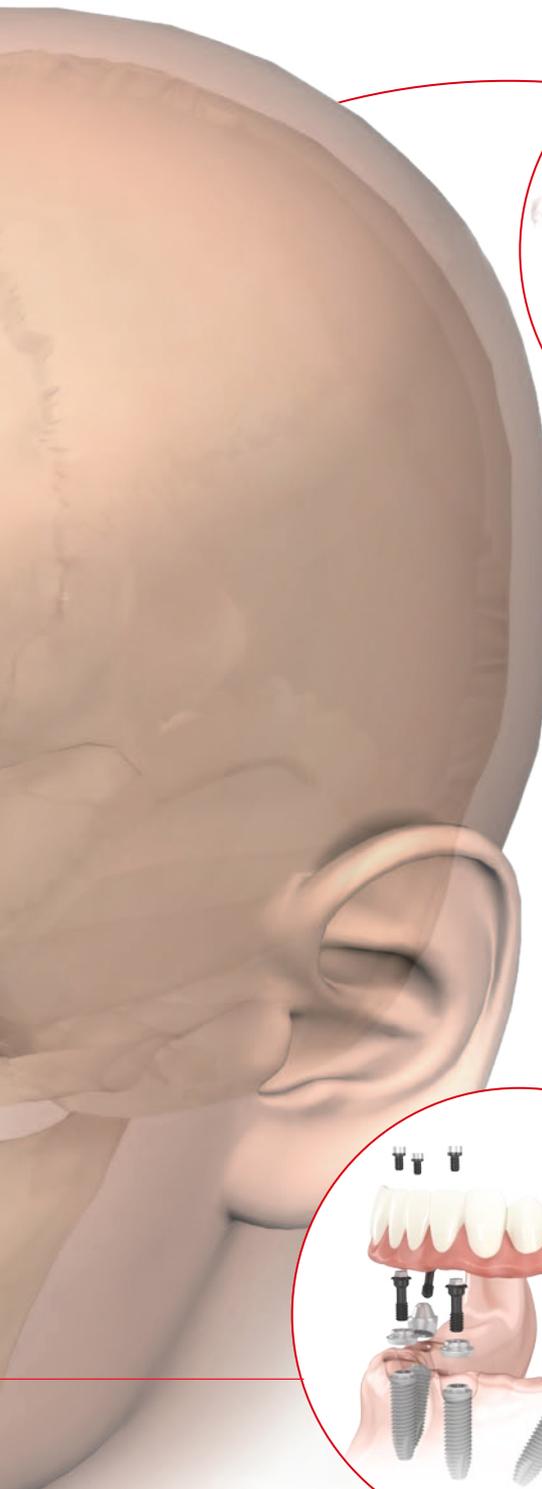
### All-on-4® treatment concept

Using two axial (straight) and two tilted implants, this is a scientifically proven solution, designed to support a full-arch restoration on four implants. Tilting the posterior implants is a graftless approach that provides an efficient and time-saving form of treatment with immediate loading.



### Brånemark System Zygoma concept

Graftless solution that simplifies complex edentulous maxillary cases with severe bone resorption.



# Bringing innovation back – a complete posterior solution

**Experience multiple innovations that stand out on their own but stand stronger together. Our complete posterior solution helps you overcome key challenges when working in the posterior region.**

Large extraction sockets, limited accessibility, difficult removal of excess cement and high occlusal forces. Though a common indication, single-unit molar restorations pose many challenges. With our complete posterior solution, you can achieve shorter time to teeth while reducing risks and complexity. Choose from wide implants designed for Immediate Function. Add a monolithic implant crown with an angulated screw channel for a solution that's stronger than ever and 100% cement free.

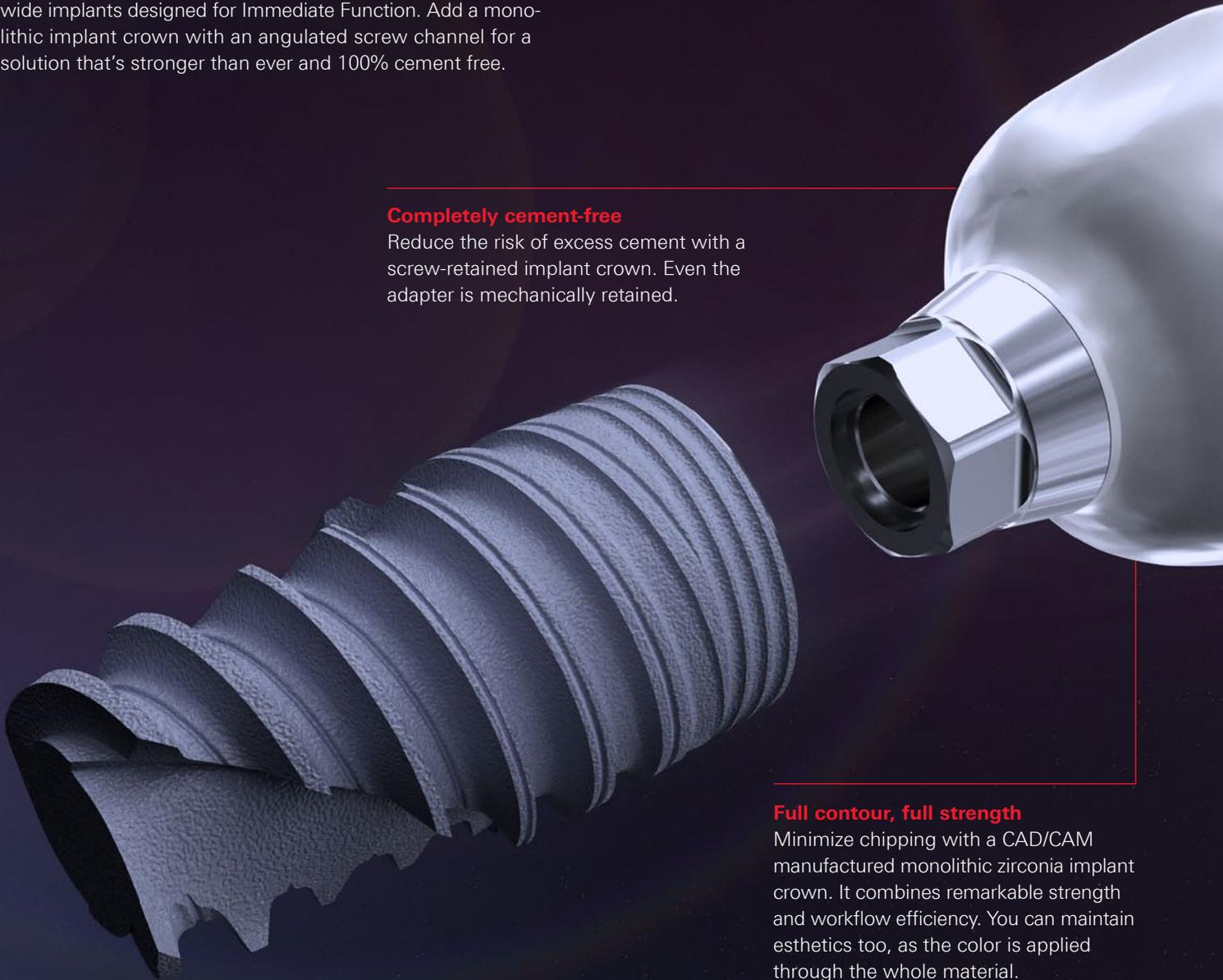
## **Completely cement-free**

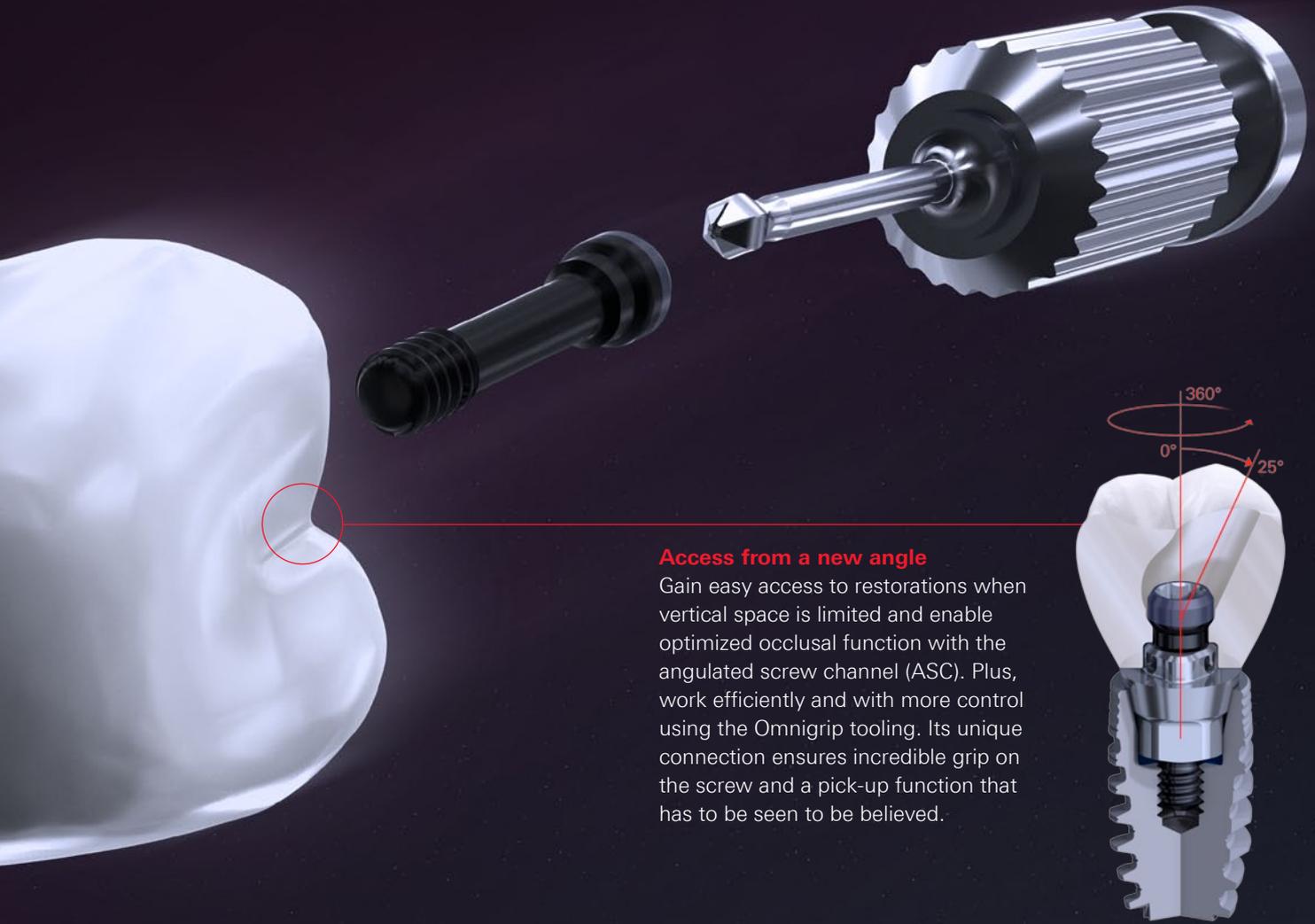
Reduce the risk of excess cement with a screw-retained implant crown. Even the adapter is mechanically retained.

## **Full contour, full strength**

Minimize chipping with a CAD/CAM manufactured monolithic zirconia implant crown. It combines remarkable strength and workflow efficiency. You can maintain esthetics too, as the color is applied through the whole material.

*Available in eight shades*





**Access from a new angle**

Gain easy access to restorations when vertical space is limited and enable optimized occlusal function with the angulated screw channel (ASC). Plus, work efficiently and with more control using the Omnigrip tooling. Its unique connection ensures incredible grip on the screw and a pick-up function that has to be seen to be believed.

**Shorter time to teeth**

Achieve immediate implant placement and Immediate Function with our NobelActive and NobelParallel Conical Connection implants. The unique combination of implant design, proven TiUnite surface and drilling protocol helps to ensure high primary stability, even in soft bone situations. And, with the wide platform, you get a solid base to create an optimized emergence profile for the final restoration.



**Shaped by reality**

Simplify treatment and reduce costly chair time with abutments designed specifically for the posterior. The PEEK healing and temporary abutments are anatomically shaped to match the contours of the molars. This means fewer shape adjustments are needed, so you can achieve an optimized emergence profile in less time.

# Immediate patient satisfaction with Immediate Function

**Immediate Function of implants placed in healed and extraction sites is a proven concept with predictable outcomes for implants with TiUnite surface. It has the potential to improve esthetic results, shorten healing times and increase patient satisfaction. In addition, it decreases the number of required appointments and can reduce costs. Immediate Function has been clinically documented with more than 21,500 Nobel Biocare implants in over 6000 patients in various indications.**

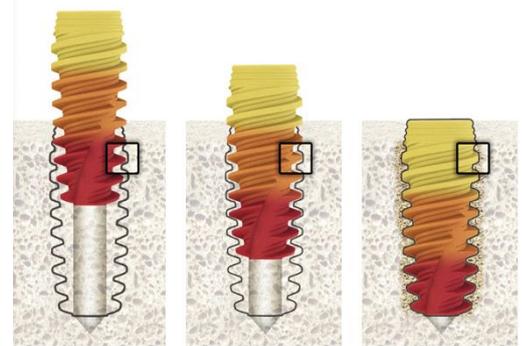
## High primary stability with the right combination of implant design and drilling protocol

In a Cochrane Review, Esposito et al. (2007, updated 2013) reveal that high primary implant stability is crucial for a successful treatment outcome with immediate loading.<sup>47,48</sup> Nobel Biocare implants with TiUnite surface are designed for high primary stability, are CE-marked for the European Union and are cleared by official authorities such as the U.S. Food and Drug Administration (FDA) for Immediate Function. NobelActive, for example, is a tapered implant following a straight drilling protocol with double lead threads that compress bone gradually during insertion. This results in a high primary stability, with maximum torque forces of up to 70 Ncm, allowing for Immediate Function even under demanding conditions such as fresh extraction sites and osteoporotic bone.<sup>28,35,36</sup>

## Maintenance of high stability with TiUnite surface

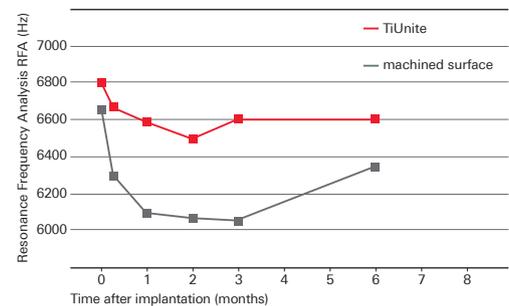
TiUnite is a moderately rough surface (Sa range of 1.0–1.2 $\mu$ m) that ensures high osteoconductivity and fast anchorage of newly formed bone. It therefore maintains the stability achieved at implant insertion throughout the critical healing phase. Most published clinical studies on TiUnite implants report very high survival rates independent of applied loading. Any reported survival differences between Immediate Function and delayed loading protocols are neither statistically significant nor clinically relevant.<sup>49-53</sup>

The right combination between implant design and drilling protocol for high initial stability also in soft bone



NobelActive's sharp apex with drilling blades allows for smaller osteotomies and therefore preserves as much bone as possible.

## High stability in the critical healing phase allows for Immediate Function



Higher stability with immediately loaded TiUnite surface implants than with the same implants with machined surface in the posterior maxilla.<sup>26</sup>

## Fewer appointments make for happier patients



**Immediate Function  
in extraction site**

**Conventional  
treatment**

**Preservation of hard and soft tissue health**

In the updated Cochrane Review, Esposito et al. (2013) conclude that immediately loaded implants show a slightly better marginal bone maintenance (0.1 mm) than conventionally loaded implants.<sup>48</sup> Although this slight difference isn't deemed clinically relevant, it was statistically significant and puts to rest any concern that an unloaded healing period may be necessary.

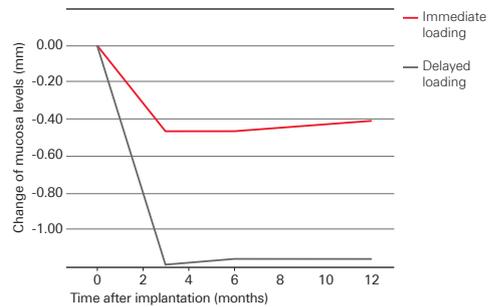
**Immediate Function in extraction sites**

There is growing evidence that immediate loading of implants inserted into fresh extraction sites leads to very favorable bone and soft tissue levels.<sup>28,54-60</sup> This means that, if primary implant stability permits, implants should be instantly provisionalized in the interest of optimal soft tissue esthetics.<sup>60</sup>

**Rapid improvement in quality of life**

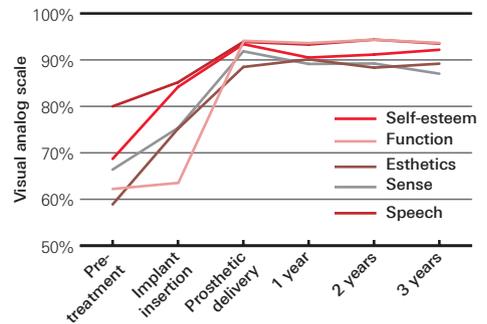
Immediate Function has the potential to shorten healing times, minimize the number of appointments and reduce costs, especially in combination with immediate implant placement in extraction sites. It has a positive effect on the patients' quality of life, as the improvements in function, esthetics, sense, speech and self-esteem occur sooner than with any other loading protocol.<sup>28,51,56,61,62</sup>

Better soft tissue levels



Immediate provisionalization limits midfacial soft tissue loss during the first year after implant placement compared with delayed loading.<sup>60</sup>

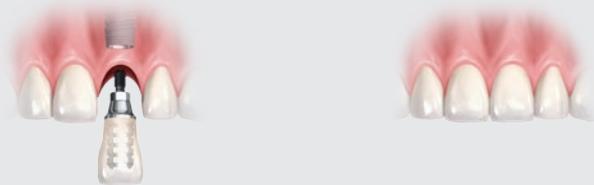
Immediate improvement of quality of life



Significant improvements in patient self-ratings of self-esteem, function, esthetics, sense and speech, right after implant insertion in extraction sites and at delivery of the final prosthesis.<sup>28</sup>

**Only one surgery:** tooth extraction, implant placement and temporary restoration in one visit.

Final crown is placed. Patient returns to normal lifestyle already after three months.



Same day

1 2

3 months

4 5 6 7 8

9 months

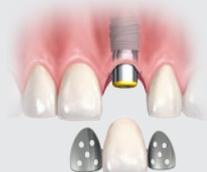
10 months



Provisional is cemented in place while wound heals.



**First surgery:** implant is placed and provisional is cemented in place again.



**Second surgery:** healed site is reopened, temporary restoration placed and provisional cemented in place again.



Final crown is placed. Patient only returns to normal lifestyle after ten months.

# Nobel Biocare – empowering you to treat more patients better

**We focus all our knowledge and expertise on supporting you with our joint goal: treating as many patients as possible in the best possible way. Everything that we do aims to empower you to treat more patients better. How do we ensure this? By concentrating on three key pillars.**

## **Learning for Life**

Our comprehensive training programs cover every step of the treatment workflow and every stage of your professional development. Hands-on sessions play a key role in our training courses. We believe in peer-to-peer training through expert professionals – worldwide.



**Partnering for Life**

We help you develop your practice or laboratory. Together we can increase your patient flow through initiatives that provide efficient workflows, more referrals and better collaboration with treatment partners. And we can also show you how to use networking platforms and study clubs to your advantage.

**Designing for Life**

We're continuously creating meaningful products and solutions, and improving existing ones, so that you can give your patients fully functional and natural-looking results. Many of our innovations have become the industry standard. And we continue to invest in research and development. Our goal: Empower dental professionals like you to give your patients their quality of life back.



**Are you interested in treating more patients better?**

Then you've found the right partner. Contact your local Nobel Biocare office, your Nobel Biocare customer representative or visit [nobelbiocare.com](http://nobelbiocare.com)

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