The program of this year’s Nobel Biocare Global Symposium was designed to fit the needs of each and every individual participant. While the general sessions provide attendees with an idea of one of the themes evolving around Nobel Biocare’s product solutions addressed at this conference — treatment refinement, excellence in esthetics and challenging clinical situations — the master classes educate those who are interested in delving further into these themes. Those who want to learn even more can join hands-on courses, many of which have sold out already, and learn how to use the products.

On Thursday and Friday, attendees had the opportunity to gain practical knowledge of the All-on-4 treatment concept protocol by drilling and testing components on models and learning what to consider in order to optimize provisional restorations and outcomes. Under the supervision of well-known opinion leaders in the field, they also tested protocols and products for optimal implant positioning and reviewed surgical and prosthetic paths to successful restoration. Other courses focused on guided surgery and bone grafting as well as digital technologies. Participants also got detailed insights into the benefits of Nobel’s diagnostic and planning tool for advanced patient cases and learned how the company’s digital solutions help them in more challenging patient cases.

After lectures, master classes and hands-on sessions, the first and second days of the 2016 Nobel Biocare Global Symposium each culminated at two fabulous receptions. The Friday cocktail reception was hosted in the symposium exhibition area in the historical rooms of the Waldorf Astoria hotel. The second evening was hosted at an even more unique location, the famous New York Public Library, which is known worldwide through various blockbuster movies. The receptions provided a perfect opportunity for participants to network with their peers from around the world and enjoy food and drinks. Also on display were Nobel Biocare’s innovative products.

More to explore at the 2016 Nobel Biocare Global Symposium
The success story continues: Participants get first-hand experience of Nobel’s innovative products and solutions

Until Sunday, participants of the event can look forward to more exciting sessions, including several special forums, such as the Partnering for life forum today, at which participants will gain insights to help improve business and increase patient flow with tailored tools and support. (Please see interview with session moderator Dr. Scott MacLean on page 7.) To end the Nobel Biocare Global Symposium, a whole-day forum will be dedicated to compromised patient cases on Sunday. The session will inform participants about the factors that have to be considered for accurate treatment planning and execution, meeting patient demands and lasting results.
Welcome to the fully digital workflow

Tour gives global symposium attendees a step-by-step look at the practice of the future

by Dental Tribune International

Here at the 2016 Nobel Biocare Global Symposium, attendees have the opportunity to step into the future of implant dentistry by taking a guided tour of a digitally enabled practice. Everything is covered—from the waiting room to the surgery theater to the dental laboratory.

The tour begins in the consultation area, where a patient’s treatment plan is developed. In a reading area, education materials are presented to the patient, so that he or she can understand the complete process.

Next comes the acquisition of data, where a patient’s digital record is taken using the latest and most technologically advanced imaging systems. For the surgery itself, both fully and partially edentulous patients can be treated, and tour participants can view operations and ask questions of experts about the digital tools.

In the laboratory area, participants can learn more about the benefits of the new NobelDesign software.

The ultimate goal is to increase the efficiency and accuracy of diagnostics, treatment planning and guided surgery.

In addition to the current technology, potential future innovations designed to increase integration, collaboration and efficiency are also discussed. Participants see how Nobel Biocare’s leading integrated workflow can accelerate, combine or even eliminate treatment steps.

Nobel Biocare is also advancing the restorative workflow in terms of components. An important new addition to Nobel Biocare’s assortment of components is the On1 concept. This innovative modular solution bridges the gap between the surgical and prosthetic workflows. The On1 Base connects to the implant at surgery and then remains in place throughout the healing process, prosthetic work and then the lifetime of the restoration. This leaves the soft tissue undisturbed without compromising on restorative flexibility, leaving the biological seal it creates in place for optimized healing.

From the President

ADVANCING EDENTULOUS SOLUTIONS

Since the very beginning, Nobel Biocare has focused on edentulous solutions, helping those who need it most. For over half a century now, this dedication to treating edentulism has remained unwavering, even in the face of skepticism, criticism and copycat products.

There was a time when people doubted the efficacy of the All-on-4 treatment concept. Now, 12 years and hundreds of thousands of patients later, we can be proud that we stayed the course. Because we kept the faith and trusted the feedback from patients, input from clinicians who shared our goal and, above all, the science, we have made substantial progress toward ending edentulism that would otherwise have been lost. There are now 48 peer-reviewed studies on the All-on-4 treatment concept—all using Nobel Biocare components.

Today, those who were our most vocal detractors are now trying to catch up, but we have a significant head start and are already advancing. The next generation of the All-on-4 treatment concept and products is already here. With new implant variants and restorative components, we are further improving workflow efficiency, gains and ease of use to shorten prosthetic protocols and procedures significantly.

In addition, our forthcoming Trefoil edentulous concept will allow even more patients to benefit from a fixed implant restoration. Developed with some of the world’s leading clinicians, it is a truly innovative full-arch restoration on three implants with a revolutionary prosthetic framework. Feedback from early testers has been excellent, and we are excited to be bringing this new, affordable option to the market soon.

With an estimated 3.6 billion people with missing teeth worldwide, edentulism is a global issue; some would even say an epidemic. The aforementioned solutions can help. The treatment of edentulous and soon-to-be edentulous patients is where the potential improvement in quality of life is greatest, and so Nobel Biocare’s focus in this area will remain great as well.

Hans-Georg Haas
by Dental Tribune International

Yesterday during the second day of its global symposium in New York, Nobel Biocare hosted the NEXT GEN forum, a session specially dedicated to the next generation of clinicians. Together with periodontists and implant dentistry expert Dr. Isabella Rochetti, Dr. José Manuel Navarro, who has already participated in the two prior global symposiums in 2020 and 2023, moderated the session. “I always enjoyed the fabulous scientific meeting in this tremendous city, and when I was asked to take part as a member of the scientific committee of this year’s meeting my response was clear,” Navarro told Dental Tribune International.

At the session on Friday morning, which was organized in collaboration with the Foundation for Oral Rehabilitation, up-and-coming young dental leaders engaged in a lively discussion with the hosts and the audience. A total of 14 speakers up to the age of 40 were divided into three groups representing the different facets of implant dentistry—oral surgery, prosthetics and practice management. They presented new insights from their research and challenging patient cases, but had only a 12-minute time slot to get their message across. A considerable number of speakers were female surgeons, which reflects a workforce trend in dental implantology. Experts anticipate significant demographic changes in the dental workforce over the next few years. An increasing number of young dental professionals, and young women in particular, are enrolling in postgraduate courses in implantology today.

Given this trend, Nobel Biocare is set to support young clinicians. “It is very important for us, especially for my leadership team and me, to develop better programs for the next generation of customers. We want to help them grow their businesses and adopt our solutions,” said Hans Geiselhöringer, President of Nobel Biocare and Dental Imaging, at the opening of the session. He further disclosed that Nobel Biocare will kick off at least one program focusing on the next generation of implant dentists in the near future.

Navarro, who is also the current chairman of the European Association for Osseointegration (EAO) Junior Committee, believes that meetings like the Nobel Biocare Global Symposium provide a great opportunity for networking and team building among young and like-minded professionals in the field.

Navarro said. “It is from this younger clinicians and like-minded professionals in the field.”

“I think that the future is very bright for young implantologists as both dentists and patients benefit from the knowledge and technologies we have today,” Navarro concluded. “That’s the door we have already opened to us and continue opening new ones, always reminding ourselves the essential of providing our patients with the best possible solution available to the best of our capacity.”

“While we can learn and benefit from the experiences of well-established key opinion leaders in implantology, I believe that it is equally important to listen to the younger generations that are coming up with robust training and a lot of energy to our field,” Navarro said. “It is from younger clinicians that we get new out-of-the-box ideas and concepts that initiate real innovation.”

Comparing the way of practicing dentistry between the older and younger generations of professionals, Navarro notes, “The evidence-based literature today supports a lot of the treatments that were considered experimental, not crazy, not, in former days. In addition, treatment approaches have shifted dramatically from rehabilitating the edentulous patients with removable prostheses to very sophisticated, esthetically demanding, micro-metric implant dentistry were at times we forget the essence of the treatment per se, were patient expectations our own personal fulfillment should not take over.” He continues, “New technologies such as digital dentistry are growing at an exponentially rapid rate and it is becoming increasingly difficult to stay up to date for us dental professionals. However, every clinician should know what technology will suit his or her environment, everyday workflow, set up, clinical layout and, with that in mind, he or she should embrace that technology that will help provide better, faster, more precise, long-lasting treatments to more patients.”

“The future is very bright for young implantologists” Emerging leaders of the dental profession meet at the NEXT GEN forum
Excellent handling is only one aspect

**GBR expert considers benefits of creos xenoprotect**

by Nobel Biocare

Having lectured and co-authored papers and a textbook on the topic, Dr. Hadi Antoun from Paris, France, is an authority on guided bone regeneration (GBR) procedures. In this interview, Antoun shares his experiences with creos xenoprotect, a non-chemically cross-linked resorbable collagen membrane with outstanding handling properties and an extended barrier function for GBR and guided tissue regeneration procedures. The dense mesh of creos xenoprotect holds the bone graft material securely in place for undisrupted healing.

**Nobel Biocare: What was your initial reaction when you first used the creos xenoprotect membrane?**

**Dr. Hadi Antoun:** That the membrane is easy to handle and, once moistened, does not stick to the site, so you can still change its position after placement.

**Why is it so important to have a membrane with easy handling?**

During surgery, we cannot afford to spend too much time adapting the membrane to the defect of each individual patient. We need a membrane that we can handle and cut easily, that does not stick to instruments and that can be adapted to the shape of the site after the biomaterial has been placed. Handling properties are important, but good handling alone is not enough.

**What then have you found to be the other main advantages of creos xenoprotect?**

Its elasticity and high biocompatibility. Biocompatibility is fundamental, while the elasticity means it can be sized or fixed with pins and then tightened without tearing. It also resorbs slowly, allowing time for the ingrowth of bone cells to the site, remodeling and bone regeneration.

**In a case you have shared with our readers online (please see the link at the end of this interview), you used a combination of xenograft substitute and autogenous bone. What benefits does this combination offer?**

The cells that survive transplantation in the autogenous graft provide osteogenic potential and growth factors that are released gradually. This complements the bone hydroxyapatite, which is a biomaterial that resorbs very slowly. It acts as a scaffold for bone regeneration, providing the augmented bone with stability.

**You stated that, in this particular case, some remnants of the creos xenoprotect membrane could still be seen after six months. Were you surprised by this longevity?**

I was pleasantly surprised. Most resorbable membranes resorb after a few weeks or three to four months at most. The core principles of GBR dictate that the longer we keep soft tissue and fibroblasts away from the bone area, the greater the opportunity for new bone to form. As such, a long degradation time like this provides a greater chance of success.

**You chose to restore the case under discussion with a NobelProcera Titanium Abutment. Why did you opt for a NobelProcera individualized restoration?**

An individualized abutment with a scalloped contour in a biocompatible material like titanium is important for the attachment and adhesion of hemispheres in the transmucosal part of the fixture. Bone preservation is very probably related to this barrier. Moreover, from an economical point of view, we do not have to deal with any additional costs related to a metal cast.

**Were you pleased with the results of this case?**

Re-entry at six months showed very satisfying results. Bone augmentation covered all exposed threads, and the most interesting observation was the bulky bone augmentation right up to the implant neck. There was more than 2 mm of newly formed bone on the buccal side.

**What would you say to a clinician considering trying creos xenoprotect for the first time?**

I would recommend trying the membrane. The results are very encouraging and, provided that the basic principles of GBR are followed, complications seem very rare. For me, the combination of autogenous and xenogeneic biomaterials with the membrane has worked well. The final trimming of the membrane can be done after augmentation by stretching the membrane before fixating it. Tension-free soft-tissue coverage is a key factor for successful bone augmentation.

**More to explore!**

Further information about creos xenoprotect can be found at www.nobelbiocare.com/xenoprotect.

The case referred to in this article is available at www.bit.ly/creos-antoun.
Creating new possibilities with All-on-4
How one lecture on the All-on-4 treatment concept changed the course of a young clinician’s career

by Dr. Po-Chih Hsu, China

I work in a hospital where many patients suffering from edentulism are business travelers or cancer patients and simply do not have time to wait for bone grafting procedures to be completed. Attending a lecture by Dr. Paulo Maló in Taipei, Taiwan, in 2012 was a seminal moment in my career as a clinician.

As Maló explained the principles of the All-on-4 treatment concept, I realized what an incredible opportunity it presented. For me, this graftless technique was revolutionary. I saw immediately that it offered me a way to restore quality of life for my edentulous patients.

Development and support
Of course, before I could start treating patients, I first needed to develop the skills required to implement the concept safely and effectively. As the lecture had been organized by Nobel Biocare, I turned to them for advice, and I could not have been happier with the response.

Nobel Biocare provided the opportunity for me and my prosthodontist to train at the Malo Clinic. This gave me a fantastic grounding in the concept and teamwork, but the support from Nobel Biocare did not end there. We stayed in close contact, and they helped secure mentors that I could turn to as I conducted my All-on-4 treatments.

From T & E to TV
Our partnership continued, and last year, we worked together on a public outreach campaign for the hospital where I work. In collaboration, we developed marketing materials and visual aids to support the program. This entailed a substantial public awareness drive as well, and as part of this, I appeared on national television to provide expert insight into how the All-on-4 treatment concept benefits the patient, particularly when it comes to cost, time and the lower number of surgeries required, since grafting can be avoided.

Featured alongside me were former denture wearers whose lives had been transformed by the treatment. As they described the improvements they had experienced, not just in esthetics, but in being able to eat more nourishing food, it was another important moment for me. It highlighted again the revolutionary nature of All-on-4.

Since introducing the All-on-4 treatment concept, I have now treated over 100 patients according to the concept, and the demand has been so great that I have had to start a waiting list for new cases.

Start your journey
I understand that some clinicians might be wary of taking time out to train in a new treatment concept. All I can say is that for me it has been a fantastic success, and it was made possible by a great partnership with Nobel Biocare. If you are considering it, I would really recommend giving your local Nobel Biocare team a call. Why not see where your All-on-4 journey could take you?

95% of patients are satisfied with their new teeth.
98% of patients would recommend this treatment.

From T & E to TV
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More to explore!
To see Hsu speaking on Taiwanese television (with English subtitles), please visit http://bit.ly/drhsu.
“It is not about counting the seconds... it is about making every second count”

An interview with Dr. Pascal Kunz, Vice President of Product Management for Digital Dentistry at Nobel Biocare

Dr. Pascal Kunz: Digital technologies are changing the way we do things in many fields and in our daily lives. A great example of how such technology has successfully introduced new behaviours is GPS-based navigation. In the past, getting from A to an unknown B was time-consuming and involved a great deal of preparation. One had to buy a map and constantly refer to it to find one’s way to a new destination, ask for directions, etc. Today, with seamless built-in GPS technology in cars or smartphones, one can focus on driving and find one’s new destination with much less hassle and more efficiently. One is still in control and one reaches the same destination, but far more simply and more effectively.

In dentistry, we are striving for the same thing. Digital technology is already improving treatment workflows and outcomes and will continue to improve processes. Our NobelGuide treatment software, for instance, allows the dentist to digitize and combine patient information with the click of a button. What’s more, the digital technician can be involved from the very start of the procedure—and this is, of course, essential when beautiful and long-lasting prostheses are the goal. Planning with the outcome in mind and all of the relevant information available in one place is definitively helping us to identify pitfalls upfront and treat patients better.

To return to the initial travel analogy, when it comes to predictability, it is crucial that both parties—the clinician as the driver and the patient as the passenger—have the same expectations of the destination they will reach once the journey is over. Digital technologies help visualize the procedure, the positive impact the treatment will have on the patient’s quality of life and the final outcome, and—even more important for the patient—help minimize treatment time. In this respect, we at Nobel Biocare believe that it is our job to provide proven technologies and make it part of protocols that can be safely replicated and taught to others.

In your opinion, what characterizes the state-of-the-art digital workflow in dental practice today?

A true digital workflow is straightforward and as close as possible to the natural way of treating a patient. Ideally, it is closely connected to the clinician’s diagnostic tools. With SmartFusion technology, for example, he or she is able to take any CBCT or intra-oral scan and combine these in a fast and easy way to obtain a fully automatic diagnostic setup of the missing teeth, which he or she can send to the laboratory and use to order the surgical template from Nobel Biocare.

In short, the digital workflow allows the clinician to use the same technology for diagnostics and communication with the dental technician, reducing the number of visits and therefore the time to teeth. The goal with this technology is to achieve quality treatment according to a three-visit approach—diagnosis, surgery (including provisionalization) and restoration—and this ensures that the time spent with the patient is used as efficiently as possible. It is not about counting the seconds when the patient is in the chair; it is about making every second count.

How does Nobel Biocare encourage dental professionals to adopt digital technologies?

The Nobel Biocare Global Symposium is one of our most important endeavors in this respect. Every three years, all of our greatest lecturers and thought leaders gather at the event to jointly review and discuss current products and to help us introduce new solutions to our customers and provide training. After such a landmark event, through our expert salesforce at Nobel Biocare, who have been a key part of the digital evolution in implantology, we then continue to train and educate dental professionals all over the globe on the advantages of digital technologies at a more local level.

Our focus is to bring our innovations to those who want to make a difference and share our philosophy that the best treatment can only be delivered through a combination of the skills of the profession and the most up-to-date technologies. This includes digital natives, who understand the technology more naturally, but is certainly not limited to younger professionals. We have seen that the main drivers of change are therefore the customers themselves.

At the 2013 Nobel Biocare Global Symposium, your company announced a new fully integrated digital workflow, connecting NobelProcera technicians and NobelClinician users digitally. How has the system been received?

Since the introduction of SmartFusion three years ago at the last Nobel Biocare Global Symposium, we have seen a tremendous uptake in North America, as dentists increasingly started to team up with their dental technicians once they understood the impact and benefits for all parties involved, including the prevention of costly mistakes in the implant planning, placement and restoration process. On a global basis, we have seen a very continual and increasing uptake. Of course, the adoption of new technologies takes time, but today we already have over 11,500 registered NobelClinician installations. We can see that the profession really understands the advantages of integrated solutions, namely predictability, productivity and profitability—not only in a commercial sense, but also in terms of reducing the time and cost of treatment and restorations, and most importantly increasing patient satisfaction.

What position will Nobel Biocare hold in the global dental dentistry market, and what are the main challenges in the near future?

We are confident that Nobel Biocare will have a very strong position. Within the Danaher group, dentistry is an important focus area, and within that dental platform, the Nobel Biocare team is playing a major role in advancing in the global digital dentistry offering and becoming a leader in the field. Our focus is firmly on continuing to provide value to our customers, who stand to benefit from our synergies with the other brands in Danaher’s dental platform. The future looks extremely bright for Nobel Biocare and our new colleagues at Danaher, for our customers and for their patients. We have some great ideas in the works.

*’With SmartFusion technology, for example, he or she is able to take any CBCT or intra-oral scan and combine these in a fast and easy way.”

About
Dr. Pascal Kunz received his medical and dental degrees from the University of Basel in Switzerland. He has worked clinically in surgical departments and as a dentist in both private practice and the department of reconstructive dentistry at the University of Basel. In 2007, Kunz joined Nobel Biocare, where he is now responsible for the Digital Dentistry Product Management team for Danaher’s dental platform.
“Visual stimulation is an extremely powerful tool”

An interview with Dr. Scott MacLean

by Dental Tribune International

Dental Tribune International: Dr. MacLean, could you please introduce yourself to the readers by sharing some details about your professional background?

Dr. Scott MacLean: I have been a dentist for close to 25 years, with a main focus on dental implant-related practice, both placement and restoration. My passion is to provide and teach dental implantology and improve quality of life. I have lectured internationally on these topics and have taught in the implant elective at the Faculty of Dentistry at Dalhousie University in Canada for more than ten years and it is now part of the overall curriculum. For about the same time, I have been involved with Nobel Biocare and the launch of new products, such as the NobelActive implant, NobelProcera system and different bone grafting materials.

The topic of today’s discussion forum at the Nobel Biocare Global Symposium is partnering for life. Could you briefly describe what attendees can expect?

At the forum today, I will be talking about how dentists can improve communication with their patients in order to encourage them to value dental implants and understand why they should have them. One of the main issues in this respect is that dentists should explain and illustrate the benefits of dental implants for quality of life. We have to get patients excited and interested by educating them. As the patient population ages increasingly, longevity is becoming a major topic in all areas of health care. There will be more older people who want quality of life, which is why they will have their hips replaced even at an advanced age, and if they are convinced about the benefits, they will want the same for their mouth in order to eat, smile, kiss and speak better.

According to your experience, what approaches and tools can help dental professionals grow their practice and increase patient flow?

There are many things we cannot describe. Thus, the most effective approach is to stimulate patients visually, as this enhances their limbic system and helps them make decisions. NobelClinician Software can be a great asset in this regard, as it can be used not only as a planning tool but also as an educational tool. Dentists can show their patients different aspects of the treatment outcomes, which is what they are most interested in. This is comparable to the booking process in a travel agency. If you want to go to Hawaii, the agent will not show you pictures of hour-long flights but images of the beach to help you visualize your final destination. We sometimes focus too much on the details of the procedure itself, which might scare the patient and make him or her apprehensive about treatment. Visual stimulation is an extremely powerful tool and helps the patient get more involved in the treatment.

In your opinion, what are the indications that are most challenging for dental implantologists, and how can the software help facilitate treatment of these cases?

The most important advantage of using NobelClinician is that one can draw on a great deal of information, especially about anatomical structures, and this capability was not available in the past in the early stages of implant planning, before even starting treatment. This helps increase precision and accuracy tremendously. Placing implants should always be both precise and accurate. However, this is not always the case. At a recent scientific meeting, I learned that only about 30 percent of implants are placed in the right position.

More to explore!

Dr. Scott MacLean will be talking about the best approaches to patient communication at today’s Partnering for Life forum, which will take place from 8 a.m. to 12 p.m. More information about NobelClinician is available at www.nobelbiocare.com/nobelclinician.
Nobel Biocare Global Symposium: Scenes from the reception

Attendees unwind and network with peers from around the world the cocktail reception at the famous Waldorf Astoria in New York

- From left: Hans Geiselhöringer, Dr. Pascal Kunz, Filippo Impieri and Dr. Peter Wöhrle.

- The Thursday evening reception was held in the historical rooms of the Waldorf Astoria in New York.

- The Nobel Biocare staff informed participants about the company’s latest product solutions during the reception.

- Participants enjoyed drinks and delicious finger food.

- The Nobel Biocare wall informed participants about the company’s latest product solutions during the reception.

- Participants enjoyed drinks and delicious finger food.

- Nobel Biocare Global Symposium
The third floor of the Waldorf Astoria hosts the symposium exhibition.

After a busy first day of lectures, master classes and hands-on sessions, participants were invited to the evening.

Scientific committee chairman Dr. Bertil Friberg (left) at the cocktail reception.

At the cocktail reception, attendees engaged in lively discussions with their peers.

Representatives of the press joined an evening event out in New York.

Participants from all over the world are attending the four-day conference in New York.
by Nobel Biocare

For decades, Nobel Biocare has been redefining the work of dental technicians around the world with NobelProcera. The system became a benchmark, paving the way to accurate, consistent and efficient manufacture of dental prostheses. Because of NobelProcera, new materials once thought impractical and difficult to work with became the mainstay, enabling restorative solutions with high strength and esthetics.

Creating outstanding restorations made easy

When it comes to creating restorations, there is real power in the NobelDesign toolbox. Numerous robust and automated applications are included in the software’s base module, assisting dental technicians with the design of crowns, abutments and bridges. Tools are also available that provide users with insight into how their restorations will look and function in patients’ mouths.

Familiar friend, powerful ally

The intuitive NobelDesign interface supports a simplified workflow that allows dental technicians to create, scan and manage multiple cases with ease. Best of all, it adapts to each user’s preferred way of working, increasing workflow efficiency over time.

For many dental technicians, NobelDesign will seem familiar and, at the same time, fresh. NobelDesign integrates well-known excel CAD tools for the efficient design of cemented and screw-retained restorations, accessed via the NobelDesign Cockpit.

Once cases have been set up and scanned into NobelDesign, libraries filled with archetypal teeth, crowns, bridges and implants offer excellent starting points from which dental technicians can create their own patient-specific restorations.

Another way to accelerate the design workflow is NobelDesign’s Mirror Tooth function. With it, dental technicians use a mirror image of the shape and anatomy of the contralateral quadrant of the target tooth. This copy, or diagnostic tooth, forms the basis upon which they design the patient-specific restoration.

Esthetics are important, but function is the ultimate goal. For testing function in the virtual environment, NobelDesign offers the Virtual Articulator feature. This application allows users to view their designs in a virtual environment and simulate how the restoration will look and function in patients’ mouths.

With NobelDesign’s ShrinkSmile feature, the technician can easily select which area to cut back, depending on whether he or she wants to fully or partially veneer the restoration.

The future of CAD/CAM

As the latest milestone in Nobel Biocare’s ongoing advancement in CAD/CAM, all forthcoming NobelProcera innovations will only be available through NobelDesign. While current NobelProcera CAD users can continue to use their existing systems, NobelDesign will offer an increasing number of advantages.

More to explore!

More information about NobelDesign is available at www.nobelbiocare.com/nobeldesign. There will be two hands-on courses for NobelDesign today at the Nobel Biocare Global Symposium. A basic hands-on course, in which participants will have the opportunity to create superior restorations with the new NobelDesign software, will be held from 8 to 10 a.m., and an advanced hands-on course with the same focus will take place from 11 a.m. to 1 p.m.
NobelZygoma

Zygomatic implants for graftless treatment of severe maxillary resorption

by Nobel Biocare

- For patients with severe maxillary resorption, extensive grafting procedures can mean lengthy treatment times—but there is an alternative. By anchoring in the zygomatic bone, the NobelZygoma implant system can enable an immediate loading protocol for graftless treatment. This dramatically shortens time to teeth for increased patient satisfaction and allows patients with severely resorbed maxillae to return to a normal quality of life. Moreover, it offers a broad choice of prosthetic options.

High primary stability for immediate function

Nobel Biocare’s zygomatic implants are designed to achieve high primary stability. This allows patients with severe bone loss to have a fixed provisional prosthesis fitted immediately after surgery, avoiding the average nine-month wait and multiple surgeries required with grafting. Immediate function with zygomatic implants has other benefits besides shorter treatment time, such as fewer clinical visits and a less invasive intervention compared with grafting procedures.

The Zygoma implant helps increase patient treatment acceptance by eliminating grafting. Patients benefit from a less invasive procedure and immediate rehabilitation.

The implant of choice for severely resorbed maxillae

The zygomatic implant has become the implant of choice for cases of severely resorbed maxillae. Without this implant, many patients would otherwise require invasive grafting procedures to establish adequate bone volume for the placement of conventional implants. Zygomatic implants help avoid grafting and shorten treatment time, with significant improvements in function and esthetics. The zygomatic concept addresses the needs of this patient group by providing the implant surgeon with more treatment options for the edentulous maxilla.

Surgical flexibility

Building on 25 years of success with Nobel Biocare’s zygomatic implants, the new NobelZygoma implants anchor in zygomatic bone and provide an excellent option for treating severe maxillary resorption without bone grafts. They have an unthreaded implant body designed to interface with soft tissue, and depending on the anatomical situation, parts of the implant body can be located outside of the maxillary sinus.

For extramaxillary placement, the coronal part of the implant should still have bone support. This technique enables a position of the implant head close to the crest of the alveolar ridge that facilitates a prosthetic procedure, which in turn offers easier cleaning and better comfort for the patient while improving phonetics.

The NobelZygoma implant

NobelZygoma implants are the most documented zygomatic implant solution on the market for the severely resorbed maxilla. Not only does the procedure avoid complex bone grafting, but NobelZygoma implants have also shown remarkable survival rates in a long-term study with an average implant cumulative survival rate of 95.12 percent after ten years.

More to explore!

For more information, please visit www.nobelbiocare.com/nobelzygoma.
Solve four common posterior region challenges

Nobel Biocare offers solutions with its innovative technology

by Michael Stuart, Nobel Biocare

Restoring single molars is a common indication for most clinicians placing implants, but that does not mean it is straightforward. In this article, we look at how to overcome four challenges frequently encountered in the posterior region.

Large molar sites

In the case of immediate placement, large molar extraction sockets can make it difficult to achieve sufficient stability. The need for a large molar crown means that additional considerations have to be made regarding the emergence profile. Restorations that are significantly wider than the implant platform could, at best, leave space where food can become trapped. At worst, they could be detrimental to the marginal bone. In both eventualities, you may have patients coming back with complaints.

In a bid to avoid these issues, you could use wide-platform implants, such as those found in the NobelActive and NobelParallel Conical Connection systems. You could also further improve the emergence profile by using healing and temporary abutments designed specifically for the molar region.

Limited accessibility

The reduced space and light in the posterior region can make placing a restoration tricky. Furthermore, working at the back of the mouth means there is a high risk of the patient aspirating any small components that may come loose.

Accessibility can be improved by using an abutment with an angulated screw channel. Being able to position the screw access hole towards the lingual or mesial aspects makes it easier to reach. The appropriate tooling can also improve handling. Nobel Biocare’s unique Omnigrip Screwdriver is designed to maintain a strong grip on the screw to limit the possibility of it detaching in the patient’s mouth. This offers a little extra peace of mind, particularly when you are working in the posterior.

Excess cement

Case studies have indicated that excess cement can have a detrimental effect on periimplant tissue health. Despite the risks, a survey of 400 dentists by Wadhwani et al. found that some place up to 20 times more cement than they need. An overload of this scale means that up to 95 percent of the cement that is placed extrudes at the restorative margin. With this margin often below the gingival margin, this can pose significant problems, particularly in the molar region, where accessibility and visibility make removal of cement especially difficult.

You can avoid this issue entirely by using a screw-retained restoration like the NobelProcera FCZ (full-contour zirconia) Implant Crown. As even the adapter is mechanically retained, the restoration is completely cement-free. Alternatively, Wadhwani et al. suggest a technique for minimizing excess cement by creating a chairside copy abutment that serves as a controlled applicator for the cement.

High occlusal forces

For restorations to withstand the high occlusal forces experienced in the molar region, they need to be strong. Those created specifically for the posterior region, like the NobelProcera FCZ Implant Crown, are designed to cope with these demanding conditions in the long term.

In addition, high forces can lead to veneer chipping. As the NobelProcera FCZ Implant Crown is a monolithic full-contour option, it overcomes this challenge too, since no veneering is required.

Four problems, one complete solution

In order to overcome all these challenges, we have brought innovation to the posterior region. Our new complete posterior solution combines wide-platform NobelActive and NobelParallel Conical Connection implants with anatomically shaped PEEK Temporary and Healing Abutments. For the definitive restoration, Nobel Biocare offers the high-strength, cement-free NobelProcera FCZ Implant Crown with the option for an angulated screw channel. In combination, these innovations are designed to make restoring molars easier.

Reference:


More to explore!

Learn more about Nobel Biocare’s complete posterior solutions at www.nobelbiocare.com.
Nobel Biocare Global Symposium 13

special feature

Your laboratory can become the prosthetic provider of choice

CAD/CAM implant bars on demand with NobelProcera Scan and Design Services

by Michael Stuart, Nobel Biocare

With more than 300 million edentulous people worldwide, the opportunity for dental professionals to improve patients’ quality of life is huge. Since dental implant treatment offers a more efficient and comfortable alternative to traditional complete dentures, demand for implant bar overdentures is set to grow. Consequently, dental laboratories that can provide high-quality implant bars to support overdentures have increased business prospects. Ramping up implant bar production, however, can require a significant investment in equipment, time and staff training, which many laboratories simply cannot afford. That is where NobelProcera Scan and Design Services can help.

Send a model, receive unrivalled bars

In order to use the service, the laboratory simply prepares the case material as normal, noting the details of the case on the short accompanying form, before sending it to be scanned and designed by NobelProcera’s team of skilled technicians. From receipt of the model, the scan and design part of the process typically takes one day.

Given the extensive range of platforms covered in the Scan and Design offering, laboratories with a NobelProcera system can use the scan-only service to increase their system options while retaining control of the design. The scan is sent back to the laboratory’s NobelProcera software so that they can complete the design themselves.

Alternatively, those seeking only high-quality centralized milling can send a completed wax-up of a bar direct to production with the service.

Premium production and peace of mind

Once the technician is happy with the design, the bar is sent for milling. As NobelProcera produces implant bars only from solid blocks of surgical-grade titanium, possible weaknesses arising from soldering or laser welding are avoided. Two to three days later, the precisely manufactured bar is shipped to the laboratory, together with a material authenticity certificate and a five-year product warranty.

Investing in quality, not equipment

This flexible approach to outsourcing offers many benefits for laboratories. Primarily, it means they can offer precision-fitting bars in NobelProcera’s celebrated high quality without needing to invest in a NobelProcera CAD/CAM system or purchase and maintain expensive production technology. It also means that implant bar cases can be accepted even when the laboratory is working at full capacity or if the laboratory does not yet possess the required skill in this particular area.

A further advantage is the breadth of the NobelProcera service offering. NobelProcera’s wide range of both fixed and fixed–removable implant bar solutions caters to a variety of clinical needs and preferences, with the Scan and Design Services available for over 170 implant platforms.

Outsource means opportunity

By removing the need for investments and offering unrivalled results, NobelProcera’s Scan and Design Services give laboratories the ability to satisfy requests for high-quality implant bars that they might otherwise have been forced to pass up. In other words, it grants laboratories the flexibility to take opportunities that they cannot afford to miss.

More to explore!

Learn more about NobelProcera Scan and Design Services at www.nobelbiocare.com/nobelproceraservices.

This is how it works:

NobelProceras Scan and Design Services make it possible for laboratories to fulfill requests for high-quality implant bars that they might otherwise have been unable to meet.

With NobelProcera Scan and Design Services, laboratories can obtain a range of high-quality precision-milled implant bars simply by sending a model to NobelProcera.
A sound investment in professional development

“I always wanted to partner with a global organization”

by Michael Stuart, Nobel Biocare

Dr. Simonas Bankauskas, who spoke yesterday at the NEXT GEN forum for emerging leaders at the Nobel Biocare Global Symposium in New York, U.S., has gone from dental school graduate to head of the largest dental chain in Lithuania within ten years. The secret to his success? A dedication to developing his skills.

Bankauskas was intent on starting with dental implant surgery early on. “I had heard it could help people and be a good opportunity,” he recalled. “I saw an introductory implantology course being advertised by Nobel Biocare and I knew I wanted to do it. At that time it was a significant investment, it was almost a choice between learning and eating, but I took the chance.” It was a decisive moment that would mark the start of a career path Bankauskas has been following ever since.

After presenting him with the certificate for completing the course, the Nobel Biocare representative who had arranged the course introduced him to a colleague as the “future No. 1 dental surgeon in Lithuania.” For a goal-oriented young clinician like Bankauskas, this was further motivation to see how far he could go.

Learning from the best

Bankauskas began placing implants almost immediately after the course and realized that there was much more he wanted to learn. He began investing in training around the globe, visiting some of the world’s most prominent clinicians in order to gain new perspectives and find answers to the questions that arose as he made progress in the field.

With words of advice from the likes of Drs. Paulo Malo and Sascha Jovanovic still ringing in his ears, he returned to Lithuania where he began to establish his reputation.

Rapid development

A new clinic, of course, added the pressures of practice management to those of clinical work. Again, Bankauskas invested in his own development to obtain the required skills, completing an executive MBA.

His thesis looked specifically at how to expand dental clinics. While his supervisor considered the plan overly ambitious, Bankauskas was soon testing his proposals in practice. Today, Bankauskas runs seven clinics across Lithuania, with more set to open soon. Last year, he placed around 2,600 Nobel Biocare implants and treated about 400 patients according to the All-on-4 concept.

Partnering for success

While his career has evolved at a fast pace, one thing has remained a constant: his partnership with Nobel Biocare. “That first Nobel Biocare representative I met on that first training course took such good care of me, gave me the encouragement I needed,” Bankauskas explained. “I always wanted to partner with a global organization—a service provider with true quality control. I work with Nobel Biocare because, like me, they are always focused on the patient.”

Having quickly recouped the money spent on training, Bankauskas used funds originally put aside for a lakeside summerhouse to open a clinic of his own.

More to explore!

Combining practice development skills with clinical learning is the focus of Nobel Biocare’s new Guide to Growth program. It is designed to help ambitious clinicians fulfill their potential. Find out more at www.nobelbiocare.com/grow.
Hear “Yes!” more often
Realize your ambitions and achieve your goals with the Nobel Biocare Guide to Growth program

by Frederic Love, Nobel Biocare

Over the years, Nobel Biocare has not only provided its customers with the peace of mind associated with tried and true products and services, it has also successfully helped many of them to revitalize their practices. In the process, the company has gained great insight into what needs to be done to grow a dental practice today. Nobel Biocare has always delivered the treatment concepts, courses and lectures, hands-on training and expert mentoring necessary to advance a clinician’s professional reach.

Today, the company’s consulting sales-people also share insights—acquired over 50 years of heritage and more than 90,000 customers served—about the importance of promoting patient awareness as a practice management skill essential for increasing patient flow. Nobel Biocare has learned that increasing patient awareness of implant-based treatment increases the rate of treatment acceptance, the important first step toward ultimate patient satisfaction.

Guide to Growth
Based on the principal insights into what usually makes an implant-oriented practice successful, this professional program provides a road map to helping every member of the treatment team reach his or her professional goals.

Increased patient acceptance
One of the insights upon which Guide to Growth is based—and a key differentiating factor for rapidly growing practices—is that an increasing number of patients expect to return home on the day of surgery with provisional teeth. To that end, Nobel Biocare supports minimally invasive protocols for virtually any tooth loss case. For example, the company’s All-on-4 treatment concept has provided a pathway for dramatic growth for many practices.

In Nobel Biocare’s well-documented experience, practices that proactively reach out to patients develop more rapidly. A social media presence, a search-optimized website, patient seminars and dedicated patient education events provide just a few of the proven means toward increased patient flow.

Ever wondered why some dentists find it easier than others to gain patient acceptance for implant treatment? As it turns out, practices that can present a complete patient journey—from initial website visit, through first consultation, via treatment itself to follow-up care—find more patients agreeing to implant treatment. Other factors that have an impact on treatment acceptance include a fixed price for the full treatment, a simple visual presentation of the treatment plan, an introduction to the entire treatment team, well-coordinated staff and flexible office hours.

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Practice growth is an important subject and stimulating discussion topic. In order to develop a detailed, personalized practice development plan for you and your team, start the conversation with Nobel Biocare today.

Kick-start your practice’s development with your own personal Guide to Growth package. Contact your Nobel Biocare team today.
