Dr Torsello, yesterday the EAO Junior Committee held an introductory workshop on implantology. During the workshop, which theoretical aspects were discussed with the participants? The first part was dedicated to a theoretical overview of osseointegration, of implant surfaces, designs and connections, and of the most critical surgical and prosthetic factors that influence the treatment outcome. You can imagine that the extent of information was huge compared with the limited time of the session. The speakers gave an overview of the basic concepts with the aim of inspiring and stimulating the participants to further study this field of dentistry.

Which hands-on exercises were practised with the attendees?

The hands-on workshop allowed the 35 participants to place one or more implants in porcine jaws. Various companies had provided implants and the EAO had provided surgical materials. Via the tell-show-do approach, two tutors for each implant system explained the surgical steps and demonstrated the correct implant placement. Afterwards, the attendees were able to place implants in the porcine jaws themselves, giving each participant the opportunity to practice with at least two different implant systems.

Who was the target audience of the workshop?

Our target group consisted of young clinicians or clinicians who up until now had dedicated their time to other dental fields and wanted to have their first contact with implant dentistry. This workshop allowed them to place their first implants under the supervision of experienced clinicians. The first experience of implant placement is unforgettable for every clinician. As the EAO Junior Committee, we wanted to give young clinicians this opportunity in the EAO environment, and we aimed to leave them with a positive memory of their first experience and of our association.

As material for the workshop you used porcine jaws. Why?

Porcine jaws are useful and widely used in hands-on exercises mainly because they are quite easily obtainable and managed and they present naturally edentulous areas where implants can be placed. Drilling into porcine jawbone allows the experience of natural bone consistency, which resembles that of human bone, and this makes the whole experience much more realistic than with plastic models.

Aside from activities like presenting hands-on workshops, what are the main responsibilities of the EAO Junior Committee?

The aim of the EAO Junior Committee is to assist and support the EAO board in achieving its mission. Our tasks are to suggest and develop new ideas, to lead projects suggested by the EAO board and encourage enthusiastic participation by young researchers in the EAO. We are working with national dental associations to implement EAO projects at national level. For example, we will be contributing to the next congress of the Italian Academy of Prosthetic Dentistry (AIOP) with a joint session of the EAO and AIOP which will take place in November.

One of our major projects for 2019 is the summer camp for young clinicians, which will take place in Lisbon in Portugal. It will be a fantastic opportunity for young dentists to receive top-level training in a friendly atmosphere.

You have contributed to a recent research paper titled “Guidelines for development of implant dentistry in the next 10 years regarding innovation, education, certification, and associations”. Would you please list some of the main conclusions and guidelines established?

The manuscript you mentioned arises from the previous EAO Junior Committee summer camp. The participants, who came from several European countries and the US, analysed the situation related to innovation, education, certification and associations in implant dentistry. The outcome was presented in the manuscript, which highlighted a number of aspects in each area that need improvement. For example, the conclusions call for the accreditation of structured training programmes in order to have an improved and standardised level of care in implant dentistry.

Thank you very much for the interview.
Nobel Biocare further extends its product portfolio at EAO 2018

At its press conference on Thursday morning, Switzerland-based company Nobel Biocare announced the next step in its digital workflow with a new option for same-day guided surgery made possible by DTX Studio Implant and the X-Guide dental navigation system. In addition, the company is introducing cross mucogain, a resorbable collagen matrix for soft-tissue regeneration, as well as the NobelPro Line, in order to highlight the possibilities of Nobel Biocare’s comprehensive range of edentulous treatment solutions.

With X-Guide, being demonstrated at the fully equipped Nobel Biocare lounge by Dr Pascal Kunz, clinicians have a new treatment option for same-day surgery. DTX Studio Implant empowers this innovative system for dynamic 3D navigation. With the software officially being launched for European markets at the EAO congress, treatment plans from DTX Studio Implant (formerly NobelClinician) can now be instantly delivered to the patient, providing a workflow for diagnostics, implant planning and dynamically navigated implant surgeries, even during emergency interventions when computer-assisted surgeries until now could not be fully applied.

Using DTX Studio Implant and X-Guide, clinicians can achieve high precision, shorter time-to-teeth treatments, including screw-retained provisionalisation with full 3D control of their implant site preparation and dynamically monitored implant inser- tion. The procedure only takes minutes from the CBCT scanning to the start of the surgery. Similar to a GPS in a car, X-Guide provides stable, lag-free, real-time 3-D intraoral guidance of the drill and implant position in relation to patient anatomy. X-Guide is manufactured by XNav Technologies, a North America-based innovator in dental 3-D navigation who has exclusively partnered with Nobel Biocare.

Extending Nobel Biocare’s range of solutions for guided bone and tissue regeneration, the new cross mucogain resorbable collagen matrix is intended to be used as an alternative for autologous soft-tissue grafts in various soft-tissue indications, such as soft-tissue volume augmentation and root coverage in submerged healing. Composed of highly purified porcine collagen and elastin fibres, it has an open interconnected porous structure designed to promote soft-tissue regeneration through the migration of cells and blood vessels into the matrix.1, 3

The matrix offers high stress resistance and suture retention that is sufficient for the tunneling technique.1 Owing to a memory effect, it retains its initial volume when hydrated.1, 4 cross mucogain is available in different sizes (15 × 20mm and 25 × 30mm) and thicknesses (1mm and 5mm). According to Nobel Biocare, it offers excellent handling, as it can be used directly out of the packaging and trimmed to precisely fit the surgical site.3

Highlighting its range of edentulous treatment solutions, Nobel Biocare is further announcing the NobelPro Line to showcase the benefits of immediate function, along with the latest advancements in minimally invasive care. With an assessment of clinically successful and proven treatment options, including NobelSpeedy and NobelEyclips, clinicians can take the all-on-4 treatment concept to new heights and treat even the most challenging maxillary cases with moderate up to severe resorption.

At the press conference, President of Nobel Biocare Hans Geisler-Höringer said, “Nobel Biocare has once again shown that it is a leading force in bringing cutting-edge technologies and solutions to clinicians worldwide. With the addition of dynamic navigation to its digital workflow, Nobel Biocare looks forward to helping more clinicians leverage the latest in implant treatment technology. Together with forward-looking regenerative solutions like cross mucogain, as well as the NobelPro Line, they now have better treatment options available to lead more patients to immediate function and excellent aesthetics.”

Clinical insights on X-Guide, cross mucogain and the NobelPro Line will be given during clinical lectures and hands-on courses presented by Nobel Biocare in Vienna. More information is available at Booth D-02 and online at http://www.nobelbiocare.com/eao.

References

Dr Felechosa officially opened the 27th EAO congress said as he accepted his award to a standing ovation.

Afterwards, the moderator of the main scientific programme, Steward Freeman, was introduced to the audience. He then gave an overview of the programme and highlighted for the next three days.

“Time machine video”, as Freeman called it, introduced the EAO congress scientific programme, which took the viewers through the culturally rich and eventful history of Vienna. Chairman Prof. Ronald Jung and Co-Chairman Prof. Georg Maliah-Pokorny, and Dr Michael Payer then entered the stage for their addresses. In conveying their experience of compiling the programme, Jung said, “The three of us started with one dream: making the most successful and most amazing congress happen.”

Maliah-Pokorny and Payer entered – ceremony with short speeches, before continuing with the opening session for the live treatment. There will stream over the course of the next three days and include live surgeries and follow-up care as a major highlight of the EAO 2018 scientific programme.
Survey: “What made you come to the EAO congress this year?”

Nearly 4,000 dental professionals have found their way to this year’s EAO congress. In conversation with Dental Tribune International, conference-goers explained what attracted them to the event.

Urte Marija Sakalauskaite, Lithuania

“I heard about the EAO from my colleagues who attended the event in Madrid last year. They told me the congress offers great lectures and informs about trending topics. It is my first time here and I came to gain more knowledge in implantology because I am currently in my final year at the Lithuanian University of Health Sciences. Therefore, I attended the hands-on workshop “My first implant: GBR”, which was actually a birthday present from my family. I liked that we were informed about the theoretical aspects and could apply our newly gained knowledge directly afterwards. Previously, I had placed an implant in a plastic model, but owing to the porcine jaws, this experience was much more helpful and informative.”

Dr Harshit Jain, India

“I studied in the US and now I have a dental surgery and implant practice in India. This is my first time at the EAO and I would like to come back with colleagues in the future. Vienna is a very special and beautiful city and I am here in order to learn about implantology from the European perspective. I went to the opening ceremony and I look forward to attending most of the other sessions. Since I am currently studying prosthetics, I am focusing on this field during the congress.”

Dr Raluca Rosca, Romania

“This is not my first time at the EAO. I think I started to attend four years ago. I am a maxillofacial surgeon with my own practice in Bucharest. The EAO offers participants the opportunity to stay in touch with the latest news in implantology, to get in contact with colleagues, and to learn about new trends and products. I will definitely continue to visit the EAO because it has become a kind of tradition.”

Dr Daniel Turnbull, US

“Since this year, I have been an EAO member and this is my first EAO congress. Before, I had been a member of the Academy of Osseointegration for 15 years. I am a general dentist and have my own practice in North Carolina. This is actually my first congress outside of the US and I thought Vienna is a very nice city, so did my wife [laughed]. She agreed to accompany me to Austria, I will probably come back next year when the EAU takes place in Lisbon. So far, I am very impressed with the programme and all lectures have been very good.”
Live treatment sessions offer practical insight into implant placement

The EAO scientific meeting offers an extensive programme of lectures, industry symposia, poster sessions and workshops. This year, for the first time, the event has introduced live surgery sessions broadcast to an audience in the main auditorium. The implant sessions offer dental professionals the opportunity to follow each step first-hand, from discussing treatment planning to observing live surgeries and finally viewing the results in follow-up presentations of the patients.

The first congress day started with an introduction of the three dental teams who presented their patients and the planned treatment.

The first team comes from the Vienna dental school, which is the largest in Austria with its 800 students and 100 dentists. The surgical team presented their patient, a 64-year-old man, a non-smoker with Type 2 diabetes who has suffered from mandibular and maxillary edentulism for 12 years. The patient now wishes to receive fixed restoration supported by implants.

Second up was the academy of oral implantology of Vienna, who presented two patients. Christina will be undergoing guided immediate implant placement to replace her maxillary incisors and immediate provisional restoration necessitated by a dental trauma caused by a bicycle accident, in order to stabilise her teeth. “I didn’t wish to get an implant at first, but my doctor advised me to do so,” she explained.

The academy has a private clinic with 800 dentists who focus on implant treatment and provide 20,000 consultations per year. This is also where the second patient, Michael, will be operated on. According to him, the team explained the upcoming procedure in detail to him, which resolved his fear. “It is a great team and I am sure it will work out fine,” he continued.

Finally, the Graz dental school, which treats about 25,000 patients each year, presented their patient, Hannah, who suffered a dental trauma in 2010 while playing sport. She will be undergoing a guided delayed single-tooth implant placement.

The implant has a specially designed thread, which reduces the drilling protocol. The Mini Implant is made of Roxolid and has an SLA surface to enhance reliable osseointegration. It also features a Optiloc connection, which uses a combination of amorphous diamond-like carbon coating and FEEX inserts to achieve low friction between the implant and the matrix, resulting in favourable wear resistance, long-term performance and low maintenance.

Straumann estimates that as many as one in ten implant procedures globally are for full-arch reconstructions. Very small-diameter monotype dental implants offer a cost-effective, immediate and minimally invasive solution for edentulous patients with reduced horizontal bone. More than a million mini-implants were placed in 2017 and their popularity is growing rapidly, as their use can avoid bone grafting procedures, which would otherwise be necessary to support wider implants.

In order to address the fully tapered implant segment, which is growing the fastest and now accounts for one in every four implants placed, Straumann has been collaborating with the world’s leading experts in the field in developing its advanced BLX fully tapered implant system. According to the company, this next-generation system, which also features Straumann’s proven Roxolid and SLActive technologies, was designed to optimise primary stability in all bone classes, to simplify restorative workflows and to achieve predictable outcomes— even in complex cases.

Yesterday, during Straumann’s corporate forum at EAO, prominent experts presented the latest preclinical and clinical evidence on the new implant, including data on its osseointegration and bone maintenance properties and the implant’s broad spectrum of indications.

In addition, Straumann hosted two workshops with distinguished experts to provide dentists with hands-on experience with the BLX and to promote new techniques. Both workshops were quickly booked out.

For more information, EAO attendees are invited to visit the Straumann booth D04.