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[Successful tissue management in focus at the 15. DENTYPLY Friadent World Symposium](#)

As part of the 15. DENTSPLY Friadent World Symposium from 15 to 17 March 2012, the Congress Center Hamburg was the destination for over 2,500 dentists and dental technicians from around 60 countries, all interested in implantology. More than 100 internationally renowned speakers from science and practice discussed topics revolving around the congress motto “Mastering Tissue Response Successfully” under the scientific chairmanship of professors David Garber (USA), Fouad Khoury (Germany) and Ye Lin (China).

The importance of stable peri-implant tissue conditions for the successful long-term implantological outcome was underlined in the welcome speech by **Dr. Werner Groll**, Managing Director of DENTSPLY Friadent. It is not without reason that the company has focused large parts of its research and development work on this topic. For only if all components and treatment steps are linked optimally said Groll, it will be possible to fulfil the increasing esthetic demands of patients for an implant-prosthetic restoration and long-term stable tissue conditions.

On Thursday 15 March the World Symposium started with a pre-congress – two workshops on augmentation techniques and soft tissue management as well as the “Forum Dental Implants in Practice”. In the workshop on soft tissue management the participants were able to practice various mucosal grafting techniques on pig jaws under the guidance of **Assoc. Prof. Dr. Wolfram Hahn** and **Dr. Stephan Klotz** following a theoretical introduction to the topic. In his workshop on bone grafting, **Dr. Thomas Hanser** demonstrated techniques for bone block harvesting and augmentation, which were also followed by practical training on anatomical models. In the “Forum“ experienced users presented successful treatment solutions and future-oriented concepts from their own dental practice to a larger audience for the first time.

On the Friday and Saturday mornings the World Symposium started with presentation sessions lasting for one-and-a-half hours each. Then the program divided into several parallel sessions. Whereas Podium 1 covered a broad mix of topics looking at all clinical and scientific aspects of tissue maintenance, a sort of “all inclusive“ if you will, the parallel podiums focused on surgery and prosthetics. To this purpose, DENTSPLY Friadent provided visitors with a “Program Navigator“ offering individual program suggestions depending on personal interests.

Tissue integration and long-term esthetics

In line with the key theme “Mastering Tissue Response Successfully”, the various sessions covered the major elements of successful tissue maintenance and esthetic long-term solutions in depth. **Professor John Davies**, an internationally acclaimed specialist on biomaterials, dealt with the topic of interaction between implant surface and peri-implant tissue. The following presentations by **Professor German Gómez-Román** and **Dr. Nigel Saynor** gave impressive insights on the excellent long-term results in tissue integration with the two implant systems ANKYLOS und XiVE. In the session “Between bone and implants” the speakers highlighted the effect of the implant surface on stable osseointegration. In specific,

the healing of implants in bone is more difficult in patients with systemic diseases – especially Diabetes mellitus. **Professor Christopher McCulloch** discussed critical factors in the wound healing response, with a focus on alterations of the extracellular matrix in patients suffering from diabetes. **Professor Karl Schlegel** connected to this topic and discussed the influence of the implant surface during osseointegration in patients with diabetes. There is the distinct possibility that the development of bio functionalized surfaces may lead to better healing results in the future. Using well documented cases as an example, **Dr. Gerd Körner** demonstrated how important intelligent measures of hard and soft tissue management are for an esthetic long-term outcome.

In a parallel session the importance of collaboration between prosthodontists and the dental laboratory was discussed in terms of good predictable prosthetic restorations on implants. In their presentation, **Dr. Orcan Yüksel** and **Björn Roland, MDT** illustrated how close communication between dentist and technician can lead to excellent prosthetic results using computer-guided treatment planning. A further session presented the scientific background and well documented patient cases on ceramic implants. Whereas **Assoc. Prof. Dr. Dietmar Weng** presented a comparison of the material properties of zirconium dioxide ceramics and titanium and their effects on tissue healing, **Dr. Urs Brodbeck** concluded that ceramic implants could prove to be a reliable alternative to titanium in the near future for well defined indications.

The effect of the implant-abutment connection on tissue stability and long-term success was also discussed. **Dr. Paul Weigl** reported on long-term stable esthetic outcomes – especially in the anterior region – when using the tapered TissueCare connection of the ANKYLOS implant system. The physicist **Holger Zipprich** offered highly descriptive proof why this is so.

In the well attended “Open Forum”, **Dr. Marco Degidi** presented the technique of intraoral welding for fabricating tension-free fitting temporary dentures – from immediate loading of small bridges up to complex screw-retained prosthesis on XiVE and ANKYLOS implants. He discussed the technical requirements and mechanical properties of the structures as well as the opportunities and limitations with critical participants. He pointed out fast processing, long-term stability and cost efficiency of this treatment concept, which appeared somewhat extraordinary at first glance.

Reconstructive treatment principles

During the afternoon, Podium 1 was devoted fully to successful restoration concepts on implants. At the beginning of this program block, **Professor Heiner Weber** attuned the audience to the differences between tooth and implant-supported prosthetic reconstructions and the possible effects of the design principles on the long-term success of restorations. **Dr. Frank Kistler** and **Dr. Steffen Kistler** pointed out that patients are often reluctant to accept grafting procedures as part of implantological restorations. Optimum use of existing bone volume is therefore of critical importance. The new angled abutments of the implant systems XiVE and ANKYLOS offer considerable support in the treatment of such cases. Their use can often avoid the need for sinus augmentation and extend the prosthetic support polygon in the mandible distally – protecting the nervus alveolaris. The presentations by **Professors Anders Örtorp** and **Ignace Naert** looked at aspects of CAD/CAM fabricated prosthetic structures. They demonstrated the digital workflow from intraoral impression taking to accurate and at the same time cost-efficient fabrication of dentures. Reference was made to the excellent fit as well as the exceptional material properties of the frameworks. Besides today’s different techniques of production – from milling up to lasermelting – the few components were mentioned, that are still missing to close the digital processing chain. In his presentation, **Dr. Maurice Salama** described the necessity for extensive pretreatment of the hard and soft tissue as indispensable requirement for esthetically appealing prosthetic restoration.

In parallel to the prosthetic sessions, surgically oriented visitors could choose to attend a presentation

block on the topic of bone regeneration and biomaterials. This included various detailed presentations on surgical techniques for the regeneration of bone defects using autogenous bone. **Professor Mostafa Farmand** reported on long-term clinical experience with the bone replacement material FRIOS Alqipore. Derived from algae and thus phylogenetic, this material offers a number of good properties – such as high osseointegration, dimensional stability and a low risk of infection.

Patient-individual prosthetic solutions

Numerous lectures on the Saturday morning were devoted entirely to esthetics. **Dr. Galip Gurel** presented examples of how a well-established, multidisciplinary team can deliver top esthetic results even in most demanding cases and how this can be supported further by computer-guided planning and surgery as well as suitable techniques for soft tissue management. He describes basic guidelines for esthetic reconstructions even in cases of great loss of bone and soft tissue. In their lectures, **Dr. Arndt Happe** and **Dr. Krzysztof Chmielewski** presented the indications and esthetic possibilities of customized CAD/CAM-fabricated ceramic abutments which were bonded to ready-made titanium bases. Furthermore, **Assoc. Prof. Dr. Wael Att** outlined the indications and chances of individual one-piece CAD/CAM abutments made from titanium or zirconium. **Dr. Barry Goldenberg** presented on the significance of shape, color and contours of the peri-implant tissue for the design of the abutment-crown complex. Presenting esthetic long-term results, he compared prefabricated and individually designed abutments. In his contribution, **Professor Christian Stappert** presented a comparison of different ceramic materials and their applications and limitations in conjunction with suitable soft tissue surgical measures. While these lectures were concerned mainly with restorations in the anterior region, **Dr. Alessandro Ponte** focused on new techniques with individually fabricated all-ceramic abutments in the posterior region made of CERCON. Based on an ongoing prospective study, he was able to confirm the good peri-implant tissue integration related to the One-Abutment One-Time concept with first data.

Another major topic of the morning session was the management of peri-implants. In his contribution, **Professor Marc Quirynen** showed that the pathogens causing periodontitis were also responsible for causing peri-implantitis. Therefore, implants placed next to periodontally compromised teeth are subject to an increased risk of peri-implant inflammation. The necessity for thorough periodontal pretreatment and maintenance treatment to prevent peri-implantitis was also underlined by **Professor Jörg Meyle**. He was able to demonstrate a success rate of 97.2 per cent for implants in a ten-year study, where periodontal treatment had been performed consistently. In his lecture, **Dr. Getulio Nogueira** looked at the diagnosis, prognosis and treatment planning of peri-implantitis, while **Dr. Ann-Marie Roos-Jansåker** focused on treatment options and methods.

Future perspectives and new technologies

And finally, the Saturday afternoon was devoted to future-oriented concepts in implantology. **Dr. Sven Rinke** gave a comprehensive overview on today's common possibilities of digital treatment support. Prosthetic superstructures can be milled from homogenous, pore-free blanks made of zirconium oxide, cobalt chrome or titanium using CAD/CAM technology with a precision where the fit accuracy exceeds conventionally cast frameworks with precious metals considerably. He demonstrated impressively new options for prosthetic restorations using the Compartis ISUS milling center. Prosthetic reconstructions in the posterior region made from high-strength, monolithic ceramics can also be fabricated employing this technology. With the advent of digital intraoral impression taking the next step in the digital workflow of patient treatment has been reached. **Professor Jürgen Hoffmann** gave an impressive presentation on the possibilities of complex implant-prosthetic reconstructions, especially in the case of large craniofacial bone defects. **Professor Georgios Romanos** reported on the interaction between functional immediate restoration and crestal bone stability based on long years of experience. **Professor Lyndon F. Cooper** presented integrated digital solutions using simple and complex case studies and underlined the

opportunities of employing digital data in planning, surgery and prosthetic rehabilitation.

In parallel, **Professor Georg-H. Nentwig** and **Dr. Fred Bergmann** chaired presentations on the long-term results with the DENTSPLY Friadent systems ANKYLOS and XiVE. ANKYLOS has been used successfully in implantology for 25 years, and XiVE celebrated its tenth anniversary on the market in 2011. Numerous clinical studies have confirmed the excellent quality of the two implant systems. In a retrospective study, **Professor Stefanos Kourtis** presented the results for a total more than 4.000 implants which had been placed over 20 years in four clinical practices. The implant systems used were IMZ, FRIALIT-2 and XiVE. The success rate of XiVE after ten years was over 95 per cent and thus superior to the values of the two other systems. The XiVE implants also proved considerably better in terms of prosthetic complications and the incidence of peri-implantitis. **Dr. Mischa Krebs** presented the study results of more than 12,000 ANKYLOS implants, which were placed between 1991 and 2011 at the University Clinic in Frankfurt am Main. The absolute survival rate in all patients and over all indications was an excellent 97.3 per cent – the most frequent losses occurred during the first year after placement and were largely due to peri-implant inflammation.

Intensive networking among colleagues

In addition to the presentations on the different podiums, visitors also had numerous opportunities for discussing current topics, for example, in the Poster Gallery, where scientific posters were presented in the categories “Clinical Studies“ and “Basic Research”, “Clinical Cases and Documentation”, as well as “Student Posters”. Overall, some 160 posters were presented and the winner of the Poster Award for each category was judged by a scientific jury chaired by **Dr. Marco Esposito**. The winner in the category “Clinical Studies“ was Michele D’Errico, Italy, with the topic “Immediate loading with SynCone in edentulous mandible: long-term result“, in the category “Basic Research“ the winner was Julie Lamure, France with the topic “Cone-Beam Computer Tomography and dental implants. An ex-vivo study on the ability to assess the integrity of the buccal cortical plate around dental implants”. The best case report, in the eyes of the jury, presented Karl J. Zeren, USA. Two awards had been presented in the category “Student Poster”: to Rustam Aghazada, Azerbaijan, as well as to Ioannis Papadopoulos, Greece. The jury had selected posters in all categories which were presented and discussed in brief presentations at the “Speakers’ Corner”. The award ceremony was held on Saturday prior to the main program. Here, the winners had the opportunity of presenting their poster topics to a wider audience in ten-minute presentations.

Treatment solutions “From Root to Crown”

On both days visitors to the Symposium had the opportunity of experiencing DENTSPLY Friadent innovations and successful treatment solutions live at the “Marketplace”. Several of the offers allowed participants to gain practical experience of the solutions presented during the scientific program. Numerous intelligent treatment techniques were presented to interested congress participants for ANKYLOS and XiVE, for example, in conjunction with the Guided-Surgery Concept ExpertEase or the DENTSPLY Friadent range for CAD/CAM-fabricated, customized prostheses, and could be tested by the participants in “Clinical Classrooms” under the guidance of experienced practitioners – an opportunity of lively interest for many of the delegates.

The topics practice marketing and how to bind patients were the focal points in the steps Lounge. Absolutely up-to-date were presentations on online marketing. In addition, a number of experts from the various fields of practice marketing and management were available for personal consultation.

The atmosphere among the participants was extremely good – during breaks the visitors discussed the presentations and used the opportunity for exchanging experiences and meeting up with friends and

acquaintances.

And finally – celebrating with friends

As always, the evening event – a traditional part of the DENTSPLY Friadent World Symposium – found wide acclaim. The guests experienced the atmosphere of Hamburg's harbor and a living part of merchant tradition in "Schuppen 52". This classic storage shed from Wilhelminian times is currently the event location in Hamburg. The shanty choir "De Klaashahns", the brass band "schräg" and the show band "Scenario" – all three total opposites, but stars in their genre – provided excellent entertainment value.

In summary, the DENTSPLY Friadent World Symposium has again proven highly successful for the fifteenth time. DENTSPLY Friadent yet again presented themselves as innovative premium supplier with topics and speakers at the highest international level. The fill of clinical studies presented in the lectures confirm the consistent orientation of the company on user and patient-friendly treatment solutions based on science.

In addition to professional information, the social aspect was also highly appreciated, as were the friendly exchanges among colleagues. Many of the participants are already looking forward to the next World Symposium, which will be held in Vienna in 2014.

As a special service, DENTSPLY Friadent makes available [abstracts of the presentations](#) at the 15. World Symposiums at www.dentsply-friadent.com/symposium. Since the World Symposium, all information is also available via an optimized mobile website for smartphones.

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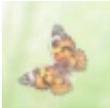
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