Preventing peri-implantitis

■ Peri-implantitis has been among the most discussed topics at the European Association for Osseointegration congress in Paris in France this year. Despite major advancements in implant placement and increasing success rates, peri-implantitis continues to pose the risk of implant failure. This inflammatory disease arises as a result of the formation of dental plaque on the implant surface. While peri-implant mucositis is reversible, peri-implantitis might lead to implant failure. Both surgical and non-surgical mechanical debridement, antimicrobial therapies, or the combination of chemical and surgical methods help to manage peri-implantitis—even if it requires sacrificing the implant. However, a new approach to dental care—individually trained oral prophylaxis—in combination with the best available cleaning tools can help prevent these inflammatory diseases progressing to the extent of failure of implant treatment.

Dental implants require special care: the implant surfaces and inaccessible areas must be cleaned carefully. Implants are prone to infection bacteria in the sulcus can be removed mechanically using toothbrushes and interdental brushes and chemically with chlorhexidine mouthwashes. Therefore, peri-implantitis can be prevented by cleaning implants regularly with the most suitable tools in the right places in combination with appropriate techniques. Only regular implant care maintains the conditions necessary to prevent such diseases.

“Peri-implantitis can be prevented by cleaning implants regularly with the most suitable tools in the right places in combination with appropriate techniques.”

● Dental hygiene is an aspect oral surgeons usually leave to dental hygienists and general practitioners, but all dental professionals should get to know their patients and adapt the treatment to the specific needs of each of them, especially in order to prevent peri-implantitis,” said Dr Laura Ventimiglia, an oral surgeon and implant specialist from Sweden.

● “Any dentist who places implants has to teach his or her patients proper oral hygiene techniques and provide the necessary information to help them maintain a balanced microbial environment. Most importantly, however, the dental professional should be able to recommend the appropriate cleaning tools to his or her patients. This begins with the measurement of the interdental space and the use of the correct toothbrush for gentle and effective cleaning of implants and the gingival margin, as well as chlorhexidine mouthrinses in certain cases.”

As a leading oral health care company, Curaden recommends cleaning the gap between the implant and soft tissue twice a day, ideally with an interdental brush. Specifically designed for implant patients, only interdental brushes with long, resilient bristles can reach the sulcus and other critical interdental areas to remove the bacteria responsible for inflammatory peri-implantitis, lowering the probability of developing periodontal disease.

The CPS soft implant plastic-coated series with its fine, long bristles has been specially designed for cleaning of large interdental spaces after implant treatment. Patient acceptance of these interdental brushes has proven to be very high. “The Curaprox interdental toothbrush is the thinnest on the market and can even be used by patients as an alternative to dental floss. Their special design makes them reliable and easy to use, durable and effective. Owing to technological innovation, CURAPROX is able to manufacture interdental brushes that have a very thin central core supporting long, soft bristles, which makes them very versatile and extremely effective, even in tight interdental spaces,” explained Dr Meyr Durr, Director of Marketing at Curaden.

The CPS soft implant range is available in five sizes, ranging from 5.5 mm (CPS 505) to 16 mm (CPS 516).

Choosing the right chlorhexidine

In combination with interdental brushes and toothbrushes, oral antiseptics reduce the bacteria in the oral cavity price to and during implant placement and supplement mechanical plaque control. Based on 40 years of research, chlorhexidine continues to be the most effective anti-plaque agent in dentistry. Used in a specific concentration in a mouthwash, chlorhexidine is bactericidal and disrupts the formation of biofilm. CURASEPT ADS Implant was developed for short-term intensive plaque control after surgery, such as implant treatment, bone regeneration and augmentation procedures, and periodontal and peri-implant operations. The chlorhexidine concentration of 0.2 per cent is highly effective in the management of plaque and bacteria and prevents the surgically treated area from superinfection. The combination of chlorhexidine with polyglyceryl-10-polyricinoleate (PV-PA) and hyaluronic acid (HA) offers further benefits both for patients and for dental professionals: it promotes healing and tissue regeneration, reduces the risk of plaque accumulation, and serves as an important adjunct in the treatment of peri-implantitis and mucositis.

In order to address chlorhexidine’s side-effect of staining the teeth—which often lowers patient compliance and interrupts the treatment and healing process, Curaden’s chlorhexidine mouthwash contains ADS (anti-discoloration system). The benefits of chlorhexidine are not affected by this addition and several studies have shown that Curaden’s 0.2 per cent chlorhexidine mouthwash containing ADS has the same beneficial effect as other 0.2 per cent chlorhexidine mouthwash, but without discoloration of the teeth. The company’s portfolio of chlorhexidine products includes CURASEPT ADS 550 Periimplant Gel with 0.5 per cent chlorhexidine for topical application. The product can be used weekly in treating difficult periodontal cases and peri-implantitis.

The right kit used according to the right technique

As an all-in-one solution to implant care, the CURAPROX implant kit contains a CS 5440 ultra-soft toothbrush, a CS 1009 single toothbrush, CPS soft implant interdental brushes, a digital periodontal probe and a brochure that comprehensively explains why care of your patients is so important and easy. “When recommending this kit to your patients, it is helpful to use the brochure to explain the right techniques to your patient. No matter what tools you use for implant care, implant specialists need to determine the individual periodontal situation of each patient,” said Ventimiglia. “Follow a simple, systematic oral hygiene routine for implant patients should be standard in implant treatment.”
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Innovative Solutions for Contemporary Implant Dentistry
December 8th & 9th, 2016

In cooperation with Columbia University & ICOI Dental Implant Symposium
December 10th, 2016

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Prof. Dr. Thomas Fortin - France
Dr. Constantin Ionescu - Sweden
Dr. Marco Josch - Germany
Dr. Maciej Marcinowski - Poland

Dr. Gregory Oxford - USA, Florida
Mariano Polack, DDS, MS - USA, Maryland
Prof. Dr. Michael Rosin - Germany
Dennis Tarnow, DDS - USA, New York
Robert E. Walinchus, DMD - USA, Pennsylvania
Associate Prof. Dr. Zekai Yaman - Turkey

RSVP
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The best ideas come from experienced practitioners. Since its inception in 1999, this has been the guiding principle and reason for the success of the CAMLOG Implant System. Today, CAMLOG offers a comprehensive portfolio of leading-edge products for implant and restorative dentistry. During booth presentations held over the course of the European Association for Osseointegration (EAO) congress, prominent speakers are going to share their knowledge with visitors and present their expertise on digital dentistry, guided surgery and the COMFOUR abutment system.

CAMLOG's implant systems feature an ideal number of system components and offer easy and efficient handling properties. The Tube-in-Tube implant-abutment connection with its unmistakable three cam system has proven itself with millions of successful implantations. In comparative studies, the connection has achieved good results with regard to a tight and precise fit. The three cam and precision connection geometry ensure quick and easy insertion, as well as alignment of the abutment system. Perfect transfer and time-saving handling are only two of the many benefits of the Tube-in-Tube connection. CAMLOG has followed the same principles with its COMFOUR Implant System, which offers a conical implant-abutment connection. Both implant systems have the same outer geometry (SCREW LINE) and therefore only one surgical set is needed for both systems. With the COMPOUR system, clinicians can offer their edentulous patients immediate, comfortable and permanent solutions on four or six implants. The multifunctional system allows for occlusal screw-retained crowns, as well as single-tooth and bridge restorations on straight and angled CAMLOG and CONELOG abutments. Major advantages of these solutions are developed to streamline the clinical process and improve clinical performance in the hands of the practitioner. The concept pursues true design innovations that will advance surgical performance. The company thus pursues true design innovations that will advance surgical performance. The company thus

The TRI all-in-set includes: one implant, one healing cap, two multifunctional caps and a single patient form drill. In addition to its latest innovation - the TRI Narrow body, a high primary stability can be achieved, the company says. The TRI Narrow product is ideal for minimally invasive procedures in cases of limited horizontal bone and will significantly reduce surgical time for the practitioner. TRI has recently received a certificate for the high cleanliness and precision of the TRI SBA surface based on the latest European Association of Dental Implantologists’ implant study at the University of Cologne in Germany. The study found that the roughness of the TRI SBA surface is in the ideal range, problems having been observed both with very smooth surfaces and with very rough surfaces. In addition, TRI has just received the preliminary results of a study conducted in collaboration with the University of Basel showing excellent primary stability of the company’s implants that outperforms all of the competing systems included. The newest findings will be presented at the TRI booth at the EAO congress. Visitors are invited to join the company during the daily happy hour and receive one of the limited TRI Pod launch packages free.

Friday, September 30 – 10:30: Digital dentistry, Dr Selim Pamuk – 12:30: Guided surgery, Dr Marco Beretta – 15:00: COMFOUR, Dr Mario Beretta.

Saturday, October 1 – 10:30: Digital dentistry, Dr Selim Pamuk – 12:30: Product news, Henry Schein representative.

The iSy concept is based solely on transmucosal healing and is used by many customers to attract more patients desiring restorations with implants. Modern technology and materials expand the possibilities in prosthodontics. All implant systems from CAMLOG are optimally designed for the digital workflow. With DEDICAM, CAMLOG offers its customers a comprehensive range of services for CAD/CAM-fabricated reconstructions. The company provides certified continuing education courses for both dentists and oral and maxillofacial surgeons that are presented by distinguished speakers. For beginners in implant dentistry, CAMLOG arranges their participation in implantations carried out by experienced implantologists. At the EAO congress, attendees will be able to meet experts and share their experience on the following dates:

Booth S13 www.tri-implants.com

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VERS L'EXCELLENCE EN IMPLANTOLOGIE

Sous la présidence scientifique de
Jean-Louis GIOVANNOLI

Avec
Ueli GRUNDER | Markus HÜRZELER | Mauro MERLI | Konrad MEYENBERG

et la participation de
Sofia AROCA | Dominique AUBAZAC | Frank BONNET | Jean-Nicolas HASSON
Olivier LE GAC | David NISAND | Frédéric RAUX | Pascal VALENTINI

Renseignements et inscriptions : Quintessence International  |  Tél. : +33(0)1 43 78 40 50  |  infos@quintes.fr
Over 15 years ago Nobel Biocare began producing its original Multi-unit Abutment, which was a first for the industry at the time. Since then, this product has had a big impact on patient treatment as it started the trend for restoring multiple teeth using a single implant which is now backed by a wealth of clinical evidence.

In the decade and a half since the launch of Nobel Biocare’s original Multi-unit Abutment, the concept has further evolved with the introduction of the Multi-unit Abutment Plus. Since the launch of the original version, Nobel Biocare’s Multi-unit Abutment has established itself as a key stone of the clinically and scientifically proven All-on-4 treatment concept. It makes it possible to restore a full arch with a fixed restoration using just four implants and so has allowed hundreds of thousands of edentulous and soon-to-be edentulous patients to benefit from a minimally invasive treatment process. Similar to its predecessor, the Multi-unit Abutment Plus allows for the tilting of the two posterior implants, meaning longer implants can be used in the anterior bone rather than in the posterior where the bone is often resorbed. This increase in bone-to-implant contact and reduces the need for vertical bone augmentation. Tilting the implants also reduces cantilevers, improving the bone is often resorbed. This in turn helps maintain this stability during treatment.

An immediate solution for edentulism
Nobel Biocare implants are designed to offer primary stability at a level that allows for the restoration to be placed immediately. The Titanium surface and patented grooves then help maintain this stability during osseointegration. In combination with Nobel Biocare’s Multi-unit Abutment Plus and the All-on-4 treatment concept, this allows many edentulous and soon-to-be edentulous patients to leave the dental surgery with a full set of teeth and renewed self-confidence. Nobel Biocare’s philosophy is that patients should live every day to the fullest, and that the months of waiting for teeth to be delayed loading protocols should be avoided if the clinical parameters allow.

Nobel Biocare’s Multi-unit Abutments open the door to a complete individualized restorative portfolio through NobelProcera. A wide range of precision-milled and aesthetically excellent restorative frameworks in both titanium and zirconia are available. Though only a small part of Nobel Biocare’s All-on-4 treatment concept, the Multi-unit Abutment plays a very substantial role. Without it, this innovative and effective solution for edentulism and soon-to-be edentulous patients would not be possible. The new Multi-unit Abutment Plus offers the same benefits together with a more efficient workflow. It is the supporting act that allows the All-on-4 treatment concept to SHINE, both for patients and clinicians.

Objective measurement of implant stability
The integration of the proprietary Castell 220 Implant Stability Quotient (ISQ) technology in the new Implantmed device allows the user to benefit from non-invasive monitoring of osseointegration. Knowing the right time to load an implant is becoming increasingly complex due to all the key parameters and risk factors that need to be considered for each patient. The ISQ measurements allow clinicians working with implants to make decisions based on reliable and objective stability values which determine the course of treatment for each patient. This procedure can be used to measure primary implant stability, observe osseointegration on the basis of secondary stability readings and determine the best possible time for loading the implant, thereby helping to prevent failures and ensuring high quality. The W&H Castell ISO module is available as an option and can also easily be retrofitted for use on one of the new generation of Implantmed devices.

While developing our product solutions, we constantly aim to set new benchmarks for the dental market. In this regard, we do not just focus on the capabilities of our own company but also actively look for collaboration with suitable external partners. This approach has once again been impressively demonstrated by our development of the new generation of Implantmed and our successful partnership with Castell,” commented W&H’s Managing Director Peter Malata. 

Ostell, Sweden
www.ostell.com
Booth S18

W&H, Austria
www.wh.com
Booth S10
Specially designed to meet everyone’s goal of improving patient care, the ACTEON ImplantCenter 2 surgical unit was developed as a highly reliable tool whose unmatched performance combined with clinical expertise paves the way for faster, more precise, and painless pre-implant surgeries. The combination of the most advanced ultrasonic and rotating technologies provides total independence in increasingly diverse clinical areas.

According to the manufacturer Acteon, the ImplantCenter 2 represents the perfect combination of safety and speed. All surgical applications, ranging from implantology to periodontal treatment, can be covered with this one single unit. Its elegant design, LED handpieces and large user-friendly touch-sensitive screen make it the ideal device dedicated to bone surgery, the company said.

The exclusive and patented NEWTRON technology allows more preservation of tissue with minimal bone loss. It is non-active on soft tissue, limiting the risk of tissue lesions. Frequency adjustment and power regulation offer maximal performances and effortless cut adjustment to the resistance met by the tip. The irrigation flow rate manages by the peristaltic water pump can be precisely controlled to cool down the site to prevent intraosseous temperature rise and bone necrosis.

The ImplantCenter 2 also optimises the visibility on the surgical field thanks to the ultra-powerful white light for better distinction of the tissues. Clinicians can choose between three modes (Piezotome for pre-implant surgery, I-SURGE implantology motor and NEWTRON for all conventional treatments) depending on the treatment. Each mode can be customised in terms of ultrasonic power, speed rotation, contra-angle, irrigation, torque and saved.

The Piezotome mode facilitates and improves the safety of delicate preimplant surgical procedures. Thanks to the ultrasonic frequencies (28–36 kHz), ImplantCenter 2 works selectively on hard tissue without adversely affecting soft tissues and surrounding anatomical areas such as blood vessels and nerves. The modulated piezoelectric signal (alternation of high and low amplitudes of power) allows tissue relaxation and excellent cell repair for a clean cut and better healing. The six ceramic rings of the Piezotome LED motor significantly boost the power of the generator for fast interventions but at the same time limit the risk of soft tissue lesion.

The innovative Piezotome tips are especially designed to suit the different clinical procedures and anatomical situations encountered in pre-implant practice. This wide range is supposed to help the practitioner to perform fine osteotomy, osteoplasty, sinus elevation (lateral and crestal), ridge expansion, extraction, Piezocision (surgical orthodontic treatment). The NEWTRON mode, intended for conventional treatment, allows the use of the widest range of tips on the market, suitable for periodontal treatment, implant maintenance, prophylaxis, endodontics and surgical endodontics, as well as conservative and restorative dentistry. The I-SURGE rotating mode coincides with its unsurpassed constant torque and steady high performance, even in lower revolution ranges. This motor provides a wide range from 100 to 40,000 rpm, which is the widest revolution range in its class. And with 6 Ncm, it provides unrivalled torque in micro-motors, which allows smooth function of the drill.

The progressive footswitch allows to adjust the required power according to the anatomical constraints encountered in Piezotome, NEWTRON and I-SURGE modes. There is also a traditional ON/OFF function. To limit cross contamination, special attention was given to the footswitch design to facilitate access to the various parameters, such as modes, irrigation, purge, choice of the active instrument (handpiece/motor) and speed regulation, without having to touch the device screen. Furthermore, the metal arch allows clinicians to move it at their convenience.

Acteon Group, France
www.acteongroup.com
Booth S27
BREDENT GROUP AND DESS COOPERATE FOR IMPROVED SOFT TISSUE ATTACHMENT

For the long term success of dental implants the soft tissue attachment on the abutment plays an important role. If it is insufficient then plaque accumulation in the pocket can cause gingivitis and subsequently periimplantitis when not treated the right way. Unfortunately, the attachment of soft tissue on standard titanium surfaces is very limited as it is visible on many histology samples that the deep pockets down to the abutment-implant interface are normally visible. In addition, many of the abutment changes in the classic periodontal disease and case study. Several registered claims, such as reduced bone resorption, faster healing and bio-adhesion between the titanium surface and connective tissue. To reduce the number of abutment changes both companies propose two alternative workflows. In the first workflow, impressions of the abutment are taken and then the customised abutment with Metalive as well as the double customised definitive crown made of broCAM. HPC are designed and manufactured. On the day of the exposure of the implant the customised abutment and crown are placed and the treatment is finished. In the second workflow, impressions are also taken and the customised abutment with Metalive (a laboratory abutment copy functioning as base to produce aesthetic ceramic crowns is produced at the same time) as well as the customised definitive crown made of broCAM. HPC are designed and manufactured. On the day of the exposure of the implant the customised abutment with Metalive surface is inserted and restored with the temporary crown. In the dental lab the customised abutment copy the definitive crown is produced. After the soft tissue healing the temporary crown is exchanged with the definitive crown.

BREDENT GROUP AND DESS COOPERATE FOR IMPROVED SOFT TISSUE ATTACHMENT

IMPLANT SURVIVAL RATE IN IMMEDIATE LOADING AFTER 10 YEARS
98.2 % survival rate
Randomised controlled multicenter study

IMPLANT SUCCESS RATE IN IRRADIATED PATIENTS WITH COMPROMISED BONED
100 % success rate
Randomised clinical trial

STRAUMANN TO OFFER NEW INSIGHTS INTO SLACTIVE

Since dental implants have become a mainstream treatment option, clinicians face ever-increasing patient expectations. Nowadays, patients expect successful treatment results irrespective of their bone quality, age, lifestyle, or medical history. For over six decades, Straumann has made significant contributions to the pioneering field of dental implants. Through pioneering innovation, the company has defined the boundaries of clinical possibilities for both dental professionals and patients. Ten years ago, Straumann pioneered accelerated osseointegration with Straumann SLActive, reducing the healing period down to 3–4 weeks in all indications. This innovation made faster treatment, shorter healing time, and better outcomes a reality. Achieving predictable treatment outcomes has been the main focus of the SLActive clinical development strategy ever since. Together with leading clinicians worldwide, Straumann has studied the clinical performance of SLActive implants under the most challenging medical conditions and treatment protocols to demonstrate the outstanding healing capacity of the SLActive surface. As new insights emerge and new data becomes available, clinicians can discover how they can benefit from the truly phenomenal performance of SLActive to maximise their patients’ healing capabilities. Attendees of this year’s annual scientific congress of The EAO are invited to discover the brand NEW SLActive data that shows incredible performance in the most challenging conditions.

TAILORED DENTAL IMPLANT CARE WITH TEPE PRODUCTS

Over 10 million dental implants are placed every year around the world and it is a well-known fact that they need good care to last for a long time. Proper oral hygiene reduces the risk for peri-implant mucositis and peri-implantitis, common diseases among implant patients, says Anna Nilius, TePe’s International Manager.

With the customised abutment with Metalive and the reduced workflows, both companies expect better clinical results with much lower costs compared to traditional implantology. This way, we believe that more patients will undergo implant treatment instead of getting a conventional bridge with all its disadvantages.

Oldsson, Manager Odontology and Scientific Affairs at TePe. That is why the company is offering the uniquely angled TePe Implant Care for keeping the lingual and palatal implant surfaces free from plaque.

The Swedish oral hygiene company currently offers a wide range of cleaning devices for different types of implants. The well-known TePe Interdental Brush, for example, is an excellent tool for interdental plaque cleaning. However, the range also includes a whole assortment of products to clean all surfaces of the implant. TePe has been developing high-quality oral hygiene products, including interdental brushes, dental sticks, floss, and toothbrushes, in collaboration with dental experts since 1966. Based in Malmo in southern Swe-