Osseointegration is key to a successful long-term dental implant therapy. However, no other non-invasive technology exist today for measuring the grade and progress of bone-implant integration. With the resonance frequency analysis (RFA) concept, the Swedish company Osstell offers a reliable solution for clinicians to assess osseointegration and implant stability quickly and correctly, especially in the treatment of high-risk patients or patients who require reduced treatment time.

Developed 20 years ago by Profs. Neil Meredith and Peter Cawley from the UK, the diagnostic system uses a small metal rod called SmartPeg (available for most implant systems) that is screwed into the implant’s internal thread and reacts to magnetic pulses emitted by a probe. The frequency resonated by the SmartPeg is converted by the measuring device to the Implant Stability Quotient (ISQ) scale, which provides clinicians with a universal scale to detect physical stability changes. If osseointegration is not progressing as expected, the ISQ values will decrease over time, indicating that there could be a problem with the stability of the implant.

In addition to its use as a device for measuring osseointegration, the technology can help reduce treatment time by helping clinicians decide whether to proceed with immediate or early loading of an implant by measuring and comparing ISQ values at placement and before the final restoration, the company said.

RFA measurements and the ISQ scale have so far been used in over 500 studies and scientific articles. In a clinical trial published in the latest issue of the International Journal of Periodontics and Restorative Dentistry, for example, researchers from the Sapienza University of Rome’s School of Dentistry were able to demonstrate stable long-term results for implants inserted in grafted sites in the mandible and the maxilla with the help of resonance frequency analysis.

According to the company, the Osstell ISQ meter is now used by more than 9,000 clinicians around the world. The Osstell ISQ kit comes with a compact measuring instrument featuring a large LED display, a measuring probe, a SmartPeg testing device and a rechargeable battery. Measurements can be stored and transferred via a USB connection to any computer running Microsoft Windows.

Visitors to the European Association for Osseointegration congress will have the opportunity to learn first hand more about the technology from users at the company’s fourth scientific symposium on Friday, 12 October, from 8:00 to 9:00, in Auditorium 15 of the Bella Center. The session, moderated by Prof. Klaus Gøtfredsen from the University of Copenhagen, will be attended by Prof. Lars Sennerby, Sweden; Dr. Leonardo Vanden Bogaerde, Italy; and Prof. Peter Moy, the USA. All presenters are long-term users of the system and will share their experiences with participants.

“With these seminars we do not only present novel scientific and hands-on clinical information to users of the device but also expect to strengthen relations with all our customers,” Ostell AB’s COO Anders Petersson told today international.

OSTELL, SWEDEN
www.osstell.com
Booth B7
C1 IMPLANT SYSTEM

MIS Implant’s C1 conical connection implant system will be on display at this year’s EAO Congress in Copenhagen, the Israeli corporation said. Launched in late 2011, the C1 system features a dual-thread, self-tapping design for a better bone-to-implant connection, a conical connection with an anti-rotation index and the Dual Stability Mechanism, which is claimed to provide long-term stability through a combination of high primary stability with accelerated osseointegration.

According to MIS, the implant geometry of C1 achieves a moderate compression of the bone at the top two thirds of the implant body through a novel drilling method. The mechanical stability achieved through this compression is complemented by the biological stability made possible by compartments between the threads at the bottom one third of the cavity that form a habitat for sustainable bone growth.

C1 implants are currently available in lengths ranging from 8 to 16 mm. Both implants and abutments feature platform-indicative colour coding for better identification during treatment. They come in various packages, including a single-use final drill, a cover screw and temporary PEEK abutment to allow for one-stage or two-stage procedures, or immediate loading.

MIS IMPLANTS, ISRAEL
www.mis-implants.com
Booth G12

CRANEX 3D

Three-dimensional imaging has changed treatment planning for complex dental procedures like implant placement significantly. With its CRANEX 3D extra-oral imaging device, SOREDEX offers an easy-to-operate and versatile system intended to meet modern clinical needs.

According to the Finnish manufacturer, patient position in particular can be improved with CRANEX 3D. With help of the EasyScout view, a feature that uses exposure in short pulses to measure the correct position of the head, the number of missed exposures and therefore patient radiation can be reduced. In addition to EasyScout, CRANEX 3D offers a ClearTouch control panel and automatic exposure settings for a better workflow.

CRANEX 3D has a dedicated panoramic CMOS sensor, enabling full panoramic image size and geometry in each panoramic programme. Cephalometric imaging programmes allow for precise treatment planning in orthodontics and oral surgery. Accurate information on bone structures, fractures, impacted teeth, third molars, the TMJ and abnormal anatomy can be obtained using the system’s cone-beam 3-D imaging programmes.

SOREDEX, FINLAND
www.soredex.com
Booth B36

DISCOVER THE MASTER’S SECRETS AND DUBAI’S SUPERLATIVES

With the RAFB 3D scanner, you can obtain more accurate and detailed images of the jaw. This allows for more precise implant placement and reduced treatment time. The CERAMICA implant system is designed to provide long-term stability and optimal esthetics. The implant body is made of a highly biocompatible material that ensures bone growth and integration.

Tribune CME Clinical Masters Program in Aesthetic and Restorative Dentistry
10-14 January 2013 and 24-27 April 2013 in Dubai, for a total of 9 days

Session I: 10 - 14 January 2013 (5 days)
- Direct/Indirect composite Artistry in the Anterior Segment
- Direct/Indirect composite Artistry in the Posterior Segment
- Photography and shade analysis

Clinical Masters:
Didier Desnoyers, Francesco Mangani, Panos Bazos

Session II: 24 - 27 April 2013 (4 days)
- Full coverage Anterior/Posterior Restoration
- Partial coverage Anterior/Posterior Restoration, Ceramic Restoration

Clinical Masters:
Mauro Fredeani, Urs Brodeck

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Discover the Master’s secrets and Dubai’s superlatives

100 CE CREDITS
NEW POWERHOUSE IN IMPLANT DENTISTRY PRESENTS AT EAO

For the first time, DENTSPLY Implants—the merger of DENTSPLY Friadent and Astra Tech Dental—will showcase its combined comprehensive portfolio to an audience of implant specialists in Europe. Future-oriented concepts and technologies will be presented by the new powerhouse in implant dentistry in two exhibition areas, as well as during two symposia, at the EAO congress in Copenhagen.

At the “Update on tissue care” satellite symposium, moderated by the Past President of the British Academy of Aesthetic Dentistry and private practitioner Nigel Saynor from the UK, a panel of renowned specialists will share insights and new findings from research and dental practice regarding the successful long-term maintenance of stable peri-implant hard and soft tissue. Visitors will be able to update their knowledge and discuss issues like osseointegration and lasting tissue stability. During a parallel symposium titled “A good morning”, moderated by Michael Nor- ton, distinguished lecturers like Ronal Jung and Prof. Giovanni Salvi from Switzerland, as well as Will Martin from the US, Saynor from the UK, a panel of experts from the International Society of Osseointegration and Straumann will present a satellite symposium titled "A good morning", moderated by Michael Nor- ton.

CONTINUING EDUCATION: DENTAL TRIBUNE STUDY CLUB OFFERS GLOBAL E-LEARNING

The development of dental implants is constantly advancing. Recent findings and research results are presented at conferences, trade shows or in specialist literature. However, with regard to continuing education (CE), e-learning is becoming increasingly important too.

One way to keep up to date easily is via the Dental Tribune Study Club (DT Study Club). The portal for dental CE offers webinars on various dental topics that are broadcast live around the world in different languages. Experienced speakers are experts in their field. During the presentation, they are able to communicate interactively with the participants via a chat window and answer questions. Participants who complete an online multiple-choice questionnaire based on the topic of the presentation after the webinar and answer 60 per cent of questions correctly are awarded CE credits. On average, the webinars reach between 100 and 500 people, depending on the target audience.

Currently, the DT Study Club has more than 40,000 members and over 400 renowned speakers worldwide—and these numbers are growing daily. Partners of the e-learning platform include well-known global players in the industry like AMD LASERS, Bio Horizons, SciCan, Straumann, GlaxoSmithKline, SHOFU Dental and Kerr. Colgate Palmolive, as well as a partner, has its own education platform and offers a wide range of ongoing CE programmes, for which the DT Study Club provides the technical support. CAMLOG, another partner of the DT Study Club, recently continued its very positive cooperation in its membership magazine and praised e-learning as a new method of training with much potential.

All webinars are archived after the broadcast and can be accessed at any time. In addition to webinars, the club offers recordings of on-site or virtual conferences, including symposia organized by the DT Study Club. Each lecture is about one hour long. Almost 50,000 minutes of CE are currently available for viewing, many of which concern implantologie. Fast-forwarding or jumping backwards is not necessary, since material is viewed via Adobe Flash Player, which is commonly installed on most computers.

DT STUDY CLUB
www.dtsyclub.com
New dynamics for your practice

CRANEX® 3D is a high quality dental imaging system with top performance and ease of use for demanding dental clinics. CRANEX® 3D combines panoramic imaging RealPan™ with optional Cone Beam 3D and Cephalometric solutions bringing new dynamics to dental practice.

CRANEX® 3D makes 3D imaging easy and fast – PickPoint™ freely selectable imaging area in dental arch and EasyScout™ view ensure accurate patient positioning with motorized chin rest.

CRANEX® 3D system is now available with In2Guide™ implant solution

In2Guide™ is an easy to use and cost-effective guided surgery solution for implant planning. In2Guide™ covers with process of implant procedure from diagnosis and planning to surgery. In2Guide™ provides you with an accurate and quick surgery plan.

CRANEX® 3D FOV’s

61 x 41 mm        61 x 78 mm

Read more
NEW ORTHO PLANNING TOOL FOR ROMEXIS

The Finnish manufacturer Planmeca has added a new Cephalometric Analysis module to its Romexis software that is intended to bring benefits to orthodontic planning and treatment by providing flexible and easy-to-use features for creating cephalometric analyses and composing superimpositions of 2-D cephalometric images, facial photos and images of the dental arch.

According to the company, the Planmeca Romexis Cephalometric module renders routine analyses fast and easy. An analysis can be performed in minutes and the results are displayed and shared effortlessly, it said. During a treatment process, superimposing patient images from different time points can be also used for follow-up purposes.

The novel concept also offers possibilities for customising the analysis and software properties in order to meet different professional needs and requirements.

“We believe that with the Planmeca Romexis Cephalometric Analysis module, we can serve our orthodontics customers better than ever,” Ms Helianna Puhtinen-Nurminen, Vice President of Digital Imaging and Applications division at Planmeca Oy, stated. “Using the same system for capturing cephalometric images, CBCT images, 3-D facial photos and now for creating cephalometric analyses, the customers can work more efficiently towards a better patient treatment.”

Planmeca Romexis is a comprehensive software used by medical and dental professionals for acquiring, viewing and processing 2-D and 3-D images.

MULTIPIEZO PRO

Since September, mectron’s new high-end prophylaxis unit has been available to dental practitioners in Europe. Implant specialists interested in the multipiezo pro will now be able to get hands on with the product at this year’s European Association for Osseointegration congress in Copenhagen, the Italian manufacturer of dental surgical equipment said.

Featuring the same high-tech interface and puristic design as mectron’s recently launched PIEZOSURGERY touch device, the multipiezo pro can be used for a wide range of indications, including classical scaling and root planing, as well as ortho- and retrograde endodontics. In addition, it can be used for all kinds of restorative purposes. According to mectron, users of the device are able to switch quickly between two ultrasonic LED handpieces, as well as various irrigation liquids. In addition, the device can be connected to tap water.

The new Soft Mode, available for the first time with the multipiezo pro, allows users to change the ultrasound modulation for the purpose of providing better comfort with unchanged performance, particularly for the treatment of sensitive patients.

Together with the device, mectron offers over 50 ultrasonic inserts, including inserts for ultrasonic implant cleaning that resonate particularly well with the multipiezo pro’s ultrasonic generator. These offer improved anatomical access and safety owing to their FEER based design that comes without a metal core.

Mectron has announced that it will be launching the product in other markets in addition to Europe in the coming months.

MECTRON, ITALY
www.mectron.com
Booth G9

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MECTRON, ITALY
www.mectron.com
Booth G9
Cortex Dental Implants Industries is offering an implant especially suited for immediate loading after extraction. According to the company, it has also proven particularly useful in cases of open and closed sinus grafts. The implant has an expanded diameter, mid-crestal, wing-shaped thread that is intended to reduce stress distribution at the alveolar cortex for increased stability, even at low residual crestal height. It also helps to enhance bone-to-implant contact significantly, the company said.

Founded in 2008 by a group of oral and maxillofacial surgeons, clinicians, opinion leaders and investors in the dental industry, the company based in Shlomi has dedicated itself to designing and producing top-level tooth replacements. Besides its range of dental implants, it manufactures and distributes prosthetic components like abutments and various instruments for dental implant surgery.

Cortex products are currently available in major markets in Asia, Latin America and Europe.

A) According to the company, its high-end production facilities utilise state-of-the-art machinery and sterile clean rooms of the highest standards. The manufacturing plant operates in conformity with ISO QMS standards and all its products have passed inspection of the European Notified Body (CE 0473) for approval of the design, manufacture and quality assurance.

CORTEX DENTAL IMPLANTS INDUSTRIES, ISRAEL
www.cortex-dental.com
Booth S21

OSSEOCARE PRO

Announced at Europerio in Vienna in June, Nobel Biocare has now launched its new drill motor which will be on display at the EAO congress in Copenhagen. According to the company, OssoCare Pro is operated entirely through Apple’s iPad with an intuitive interface making it possible to plan and set up the treatment sequence prior to surgery. Pre-programmed free-hand and guided drilling protocols provide increased safety, the company said. The speed, torque, irrigation flow and light intensity can be controlled and modified through the application that is available for free of charge from the Apple App store. The application also offers a built-in recording and exporting function, and allows multiple-user log-ins for sharing treatment data between different clinical partners.

Nobel Biocare said that new features will be added to the app and will be updated regularly to provide users with improvements as well as enhancing the performance of the system. Besides the innovative iPad interface, the MXi LED micro-motor is the lightest and most powerful on the market, while the contra angle has an exceptionally small head for easy access in limited space areas. Furthermore, the double LED system ensures stable lighting to avoid shadow areas and the option for combining internal and external irrigation ensures optimal cooling.

NOBEL BIOCARE, SWEDEN
www.nobelbiocare.com
Booth FGS-A

SATURN IMPLANTS

With Saturn, the Israeli company Cortex Dental Implants Industries is offering an implant especially suited for immediate loading after extraction. According to the company, it has also proven particularly useful in cases of open and closed sinus grafts. The implant has an expanded diameter, mid-crestal, wing-shaped thread that is intended to reduce stress distribution at the alveolar cortex for increased initial stability, even at low residual crestal height. It also helps to enhance bone-to-implant contact significantly, the company said.

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CORTEX DENTAL IMPLANTS INDUSTRIES, ISRAEL
www.cortex-dental.com
Booth S21

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NEOSS EXPANDS INTO TAPERED IMPLANT MARKET

After having secured a £1 million working-capital facility from the Royal Bank of Scotland and NatWest last year, implant company Neoss recently launched its first tapered implant on dental markets in Europe and North America. The new implant offers a simplified drilling system for greater flexibility and increased primary stability, particularly in compromised cases. According to the company, it also has a low surface roughness flange (Sa 0.4) designed to reduce marginal bone loss and a rougher body to optimise osseointegration. In addition, a rounded tip is intended to protect the sinus floor membrane.

“Our aim was to provide dentists with a simple solution to placing dental implants. Therefore, the Neoss Tapered Implant uses many of the same components as our Neoss ProActive Implant system,” commented Neoss co-founder and Chief Technical Officer Fredrik Engman.

The implant is currently available to dental practitioners in all major European markets. It will also be on display at this year’s EAO congress in Copenhagen, among other products, the company said.

NEOSS, UK
www.neoss.com
Booth B19

IMPLANT SCANNING WITH TRIOS

Digital implant impressions made with the TRIOS intra-oral scanning system from 3Shape are intended to help dental labs design implant cases in record time. Skipping time-consuming steps like custom-tray production, shipping and handling, dentists can capture single implant positions with the system using autoclavable scan bodies and send them to their lab, where digital models can be instantly designed with 3Shape’s Model Builder CAD/CAM software.

According to the Danish company, TRIOS captures not only implant positions but also the soft-tissue emergence profile in a unique dual-step workflow, helping clinicians achieve better clinical and aesthetic results. Based on the impressions, 3Shape labs will be able to design sophisticated digital implant models, customised abutments and the final crowns directly, in a straightforward and integrated workflow.

“There is no reason why you cannot capture single implant positions using autoclavable scan bodies,” said Dr Simon Kold from the Herning Implant Center in Denmark. “By adding scans of the soft-tissue emergence profile, I can give my lab detailed information that allows them to optimise the fit and aesthetic qualities of the customised abutment and final restoration.”

TRIOS is currently available in Europe and is expected to be launched in North America and other selected markets in the third quarter of 2012.

3SHAPE, DENMARK
www.3shape.com
Booth G20