Nobel Biocare aims to enhance implant treatment planning with software

Dental implants are the fastest-growing segment in dentistry, and new devices and treatment solutions are launched every day. With its NobelClinician software, premium provider Nobel Biocare has brought the latest technologies together to make selecting the right dental implant treatment as easy as possible and offer outcomes for patients that are more predictable.

NobelClinician allows dentists to plan implant treatments with confidence and precision by assessing detailed 3-D patient scans, according to Nobel Biocare. Options are easily selected on a screen, taking into account the availability of bone and prosthetic needs, and other important factors. Based on its precise measurements, the software has the ability to caution users when a treatment plan places implants close to areas marked as sensitive by the user, such as nerves or roots.

As teeth can be extracted virtually, all possible treatment options can be explored. NobelClinician has its own virtual assistant, named “Oscar,” which was developed not only to guide the user through the planning process, but also to help him or her understand the software features to ensure that all of the necessary aspects have been considered during formulation of the treatment plan.

Oscar is the NobelClinician software’s built-in virtual assistant and guides the user through the treatment planning process.

Collaboration with other clinicians is facilitated by the possibility of sending reports quickly and securely at any stage in the process through the NobelConnect network to the dentist who originally referred the patient, a dental technician or a radiologist. The NobelClinician viewer allows information to be reviewed by other clinicians at no charge, even if they are not users of the software. As patient information can be accessed remotely from any computer that has the software installed, clinicians are able to plan treatment from home and when travelling.

Where NobelClinician, however, is really supposed to excel is through its visualisation features that are intended to help clinicians explain treatment proposals to their patients. While the NobelClinician Communicator app can bring treatment options to life through an interactive iPad presentation, according to Nobel Biocare, clear images taken from the NobelClinician software provide patients with understanding and confidence regarding the selected implant solution. Once a treatment plan has been confirmed, a built-in system allows for a quick and easy cost assessment of all the required implant components, which can be ordered at the click of a button.

For dental professionals following the NobelGuide guided surgery approach, the treatment plan defined in NobelClinician can also be used to generate an individualised surgical template.

Dental equipment manufacturer SOREDEX has improved image quality for its dental imaging system CRANEX 3D with SOREDEX Advanced Reconstruction Algorithm (SARA) and SOREDEX Metal Artefact Reduction (SMAR). The new technologies allow clinicians to detect clearly small anatomical details like small fractures or endodontic root fillings and reduce the effect of metals and other dense radiopaque objects on the 3-D image which usually create artefacts that are typically displayed as stripes and shadows.

The CRANEX 3D with the new ENDO 3D mode aims at endodontists who require very high image resolution. Its Endo imaging modes provide accuracy required for endodontic imaging with 85 μm voxel size and SMAR (90 kV, 10 mA), the manufacturer said.

According to Soberex, EasyScout and PickPoint enable accurate FOV positioning in all dental and facial areas. Adjustable rigid temple support and motorized chin rest ensure high stability with all facial FOV positions during 3-D imaging minimising movement artefacts. With the novel patient positioning, the CBCT imaging in CRANEX 3D works smooth and fast.

A new addition to VITA metal ceramics

VITA Zahnfabrik aims to continue the success story of its VITA metal ceramics with the introduction of VITA VMK Master. The new ceramic, an extension of the VMK generation for veneering metal frameworks in the conventional CTE range, features high flexural strength and temperature change stability. Other benefits of VITA VMK Master include a low acid solubility and first-class processing characteristics. A perfect compound—also for use with non-precious alloy frameworks—VITA Master provides dental technicians with an uncompromising layering consisting of dentine and enamel, aesthetic reproductions can be achieved quickly and safely. A comprehensive range of complementary materials offers the best conditions for efficient realisation of patients’ individual features, the manufacturer said.

VITA VMK Master is available in the original VITA SYSTEM 3D-MASTER and VITAPAN classical A1–D4 shades. Only the VITA label guarantees an exact and nature-like reproduction of the original VITA tooth shades.

For more than 50 years, VITA Zahnfabrik has been supporting dental technicians all over the world with state-of-the-art veneering materials. In keeping with the rest of the company’s portfolio, VITAVMK Master is distinguished by the most advanced manufacturing processes and high-quality materials.

Durr Dental is expanding its VistaScan series with a compact image plate scanner. According to the German company, the new device is supposed to make the transition from film to digital imaging processing considerably easier for dentists and orthodontists. In addition to a high resolution touch display, which can be used to operate the ScanManager, the VistaScan Mini offers wireless networking capabilities for greater flexibility in the dental practice.

“The VistaScan Mini View was developed as an efficient network solution for surgeries with several treatment rooms. You can even use the scanner without PC or network, which makes it particularly suitable for mobile use by aid organisations or in residential care institutions,” explained Frank Kiesele, Head of Durr’s Imaging Systems Product Development.

Clinicians can choose whether they want to operate the touch display by hand or with a stylus pen. Image processing functions, such as magnification, contrast and brightness level, have been directly implemented into the device. According to Kiesele, VistaScan Mini View is able to process all intraoral sizes from S0 to S4. The handling and variety of formats is similar to film with the advantage that it can be easily positioned in the oral cavity of the patient and digitised quickly, he said.

With the new VistaScan Combi, Durr also offers a larger version of its image plate scanner View that can process intraoral images as well as extraoral images such as large panoramic and cephalograms.

DÜRR DENTAL, GERMANY
www.durr.de
Booth 4H-09

SOREDEX adds new technologies to CRANEX 3D

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Image plate scanner with touch display available from Dürr

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Planmeca has introduced a new imaging mode that was developed especially for use in endodontics and in cases dealing with small anatomical details, such as imaging of the ear. The new mode, which produces extremely high-resolution images with a very small voxel size of only 75 μm, is available for all Planmeca ProMax 3D imaging units.

According to Planmeca, the new mode provides clinicians with perfect visualisation of even the smallest anatomical details. Owing to new intelligent noise and artefact removal algorithms, noise-free and crystal-clear images can be produced, the Finnish dental equipment manufacturer said. With Planmeca ARA, for example, artefacts resulting from metal restorations and root fillings in the patient’s mouth that cause shadows and streaks in CBCT images can be removed effectively. In addition, the new Planmeca AINO Adaptive Image Noise Optimiser is intended to reduce noise in CBCT images resulting from a particularly low radiation dose or small voxel size without losing valuable details. The company said that the filter particularly improves image quality in the endodontic mode, where noise is inherent due to the extremely small voxel size. It has also proven useful when used in accordance with the Planmeca Ultra Low Dose protocol, where noise is induced by the particularly low dose.

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HEMOSTASYL promises reliable haemostasis in 2 minutes or less

Planmeca has also allowed the reduction of exposure values and consequently the radiation dose in all other imaging modes, according to Planmeca.

Planmeca, Finland
www.planmeca.com
Booth C17–20

Pierre Rolland, an Acteon Group affiliate, is presenting a new chemical gel composed of a special combination of aluminium chloride and kaolin that can be used for any cases of moderate bleeding that may occur in daily practice. Developed to provide haemostasis in the oral cavity within 2 minutes, bleeding can even be stopped within a few seconds in most cases, according to the manufacturer, establishing a clean and dry working area for better calculus removal and scaling. The astringent and haemostatic effects of HEMOSTASYL are enhanced mechanically by the thixotropic properties of the material.

The turquoise-coloured gel can be applied within seconds. Curved applicators allow precise placement with lower risk of cross-contamination. The gel’s thixotropic properties ensure good adhesion to the mucous membrane even when there is moderate bleeding—without applying excessive pressure to the gingiva. After a maximum exposure of 2 minutes, the product can be removed with a gentle air and water spray accompanied by suction, Acteon said. HEMOSTASYL is available in a starter kit containing two syringes (2 g each) and 40 disposable curved applicators, as well as in refill packs.

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Whether regarding the market's hottest smartphone or something bigger, most owners of new technology will start out by critically scrutinizing their new piece of equipment. Dentists who have just acquired the TRIOS Digital Impression solution from 3Shape (Booth B137–138) are no exception. Some say that the first 100 days is the perfect span of time needed in order to judge a sophisticated product, since it is long enough to form a qualified opinion about its functionality, usability, and clinical results.

Prosthodontist Dr Wendy AuClair Clark from Atlanta in the US speaks about her initial experiences.

Worldental Daily: Dr AuClair Clark, how did you become involved with the TRIOS technology in the first place?

Dr Wendy AuClair Clark: Our practice has been a leader in smile design for more than three decades. When the decision came to implement the 3Shape TRIOS into the practice, I was very excited to be using a new intraoral scanner. I had had previous experience using other digital impression scanners in the past and was eager to learn how TRIOS would differ.

How was your describe your initial experiences with the TRIOS solution?

Both the setup and the training were very easy and simple processes. The system expert got us started. He did the installation on the first day, which was setting it up with our network and setting up the connection with our labs. The second day was for training. We worked with TRIOS interface, turning it on, adding users, checking cases and scanning methods. The expert then followed up with us a month later, which worked perfectly.

What kinds of cases are you now using TRIOS for?

Originally I was using it primarily for crowns, including screw retained. Now, I am mainly doing implant cases (milled abutments). Being able to use the same workflow for the scanning has made the transition into this new area seamless.

How do you like using TRIOS?

I have experience using other scanners but using TRIOS has been refreshing. I appreciate that the scanning is continuous, that I just have to click one button and start scanning, which makes it quick. I also like that the colours of the scans are so natural, and that the tip is heated. This helps reduce the amount of air I have to blow into the patient’s mouth—which is crucial when it comes to patient sensitivity. I actually have had a patient for a few years now who has dreaded taking traditional impressions because of his gag reflex. I have even had difficulty scanning him with other scanners before, because I could not stop the scanning. However, with TRIOS I can stop, let the patient relax, and then re-start the scan when he is ready. He has definitely become a big fan of TRIOS.

Has your doctor-patient experience changed since using TRIOS?

The patients have been very impressed and appreciate the fact that we implement new technology into our practice. They also like seeing the images from the scan. Eventually I will connect the TRIOS solution to an iPad and use it for patient education as well.

Has the use of TRIOS also improved communication with your lab?

I can keep in touch with my labs much better and follow up on my cases faster, which has reduced the total time for treatments. I appreciated being able to get in touch with them when they were having trouble reading the margin line. I was able to easily reset the margin line, and the crown came back in perfect form. I didn’t have this option with any of my previous scanners.

Thank you very much for the interview.

AD

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Indian cricket legend to attend Prima Dental market launch

Indian cricket legend Kapil Dev is to make a star appearance at the launch of UK dental manufacturer Prima Dental into India’s dental market here at the 2014 FDI Annual World Dental Congress in New Delhi. Widely recognised as one of the sport’s greatest all-rounders, Dev will attend the manufacturer’s launch event this Saturday as it celebrates its entry into the Indian market with a gathering of senior dental professionals from around the world at the prestigious trade show.

Dev will spend an evening meeting with Prima Dental’s launch party guests and address the gathering, as will the manufacturer’s managing director Richard Muller. According to the company, participants who buy one of its products at the exhibition can win a ticket to the launch event.

Fifty-five-year-old Dev holds the world record for the most wickets and runs in Test cricket. Among other achievements, he led the World Cup champion team in 1983. He served as coach of the Indian national cricket team for a short period and later joined a volunteer unit of the Indian Army.

“We are hugely excited to welcome Kapil Dev to our India launch. One of cricket’s greats, Kapil achieved world success through his passion, precision and team spirit,” Dan Hodgson, sales manager at Prima Dental, commented. “These are all vital elements to Prima Dental’s success and we know Kapil’s presence at the launch event will be an inspiration to everyone.”

Bringing wider choice to India’s dental profession, Prima Dental is launching a range of 40 burs here in Greater Noida, including its flagship Predator range, to cover the complete spectrum of dental requirements for operative, surgical, endodontic and orthodontic use. The launch comes shortly after the company made news by winning the Queen’s Award for Enterprise, the UK’s most prestigious business award, in recognition of its success in international trade. Awarded annually by HM The Queen, the coveted awards are only given for the highest level of excellence, and the recognition reflects Prima Dental’s international success and world-class products.

“Our burs are known for their exceptional high quality, which makes them a precise and reliable tool for dentists to work with,” Hodgson said. “Patients benefit hugely from procedures that can be carried out more quickly, and with a higher degree of accuracy, than most standard burs allow.”

“Entering the Indian market represents a significant milestone for Prima Dental and we look forward to bringing the benefits of Prima Dental’s burs to India’s substantial dental profession and its patients,” he added.

Prima Dental, which exports to over 85 countries worldwide, will be promoting its India launch at the British pavilion at the FDI World Dental Exhibition on the ground floor.

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