**Nobel introduces complete posterior solution**

Alternatively, clinicians can opt for NobelParallel Conical Connection (CC). Combining a parallel-walled implant body that is well documented with an advanced internal connection, the NobelParallel Conical Connection exhibits the reliability of the NobelActive family while with dimensions ideal for the molar region. The NobelActive WP (wide platform) implant possess a wider diameter implant body (4.5 mm) to better fit the large extraction sites in the molar region and a wider implant platform for an optimal emergence profile.

Two new implants also benefit from Nobel Biocare’s internal conical connection. This advanced connection’s conical seal and hexagonal interlocking mechanism provide high mechanical strength. It offers restorative flexibility too, being compatible with Nobel Biocare’s most innovative restorative solutions, including those designed specifically for the posterior. These include the new PEER Healing and PEER Temporary Abutments, which are anatomically shaped to match the molar contours. As the PEER Abutments come ready-shaped for an optimized emergence profile, fewer adjustments are needed. This can simplify treatment and reduce costly chair time.

When it comes to the final restoration, the FCZ (full-contour zirconia) implant crown is designed for strength and predictability even under the high occlusal forces of the posterior. There’s no worrying about chipping either, as the full-contour nature of the NobelProcera FZC implant crown removes the need for veneering.

The biocompatibility of the materials used contribute to biological stability in the areas it matters most. Plus, being screw retained, the FCZ Implant Crown is completely cement free, avoiding the risks associated with cement excess entirely. Even the titanium adapter is mechanically retained.

**Dürr highlights new class of energy efficiency suction systems**

Tailored to the needs of dental surgeries, Dürr Dental opened up the possibilities for ergonomic dental treatment around fifty years ago. After years in the field the company began distributing them as early as 1964. Since then, Dürr has been constantly working on improving its technology. As a result, the new generation of dental suction systems called Tyscor is quieter, smaller and lighter. According to the company, it also reduces energy consumption by up to 50%.

In the 1960s, systematic spray mist suction was developed to successfully deal with fundamental problems such as the exposure of both patients and staff to aerosol-based problems such as the exposure of both patients and staff to aerosol-based pathogens. Dürr created the Tyscor suction system, which was the forerunner of their current generation. Since then, the company has been working on developing new technology to help solve the problem of aerosol exposure in dental surgeries.

The ability to use an angulated screw channel (ASC) allows the screw access hole on the FCZ Implant Crown to be placed anywhere between 0° and 25° in a 360° radius. This means it can be angled towards the front of the mouth for easy access, even in the posterior. It also helps avoid placing the access channel on the cusps of a tooth, where it could affect occlusion. The associated Omnigrip Screwdriver further simplifies work on the restoration. Its effective pick-up function and secure grip on the screw help the clinician to work safely and efficiently.

Natural-looking tooth color is another benefit offered by the FCZ Implant Crown. Whichever of the two available shades is used, the color is applied throughout the material. This means discoloration isn’t a concern when making adjustments. Cutbacks and staining can also be used to achieve the desired aesthetic effect.

**Planmeca combines CAD/CAM with 3D CBCT data in one software**

With the combination of CAD/CAM solutions and key units in the Planmeca ProMax 3D imaging family, dental professionals can now bring together a wider range of information for treatment planning and diagnosis purposes. According to the manufacturer, the Planmeca Romexis software platform opens new doors in creating a new standard of care for patients by offering high-quality features for different specialties, including implant planning and other restorative treatments, all available through one software interface.

PlanmecaProMax 3D imaging units reveal intricate information on soft and hard tissue structures, including the mandibular nerve canal, while the Planmeca PlanScan intraoral scanner captures precise data above the gum line. The combination of these data helps build a complete understanding of any case and makes 3-D prosthetic design quick, accurate and easy, the company said. Clinics are able to operate more flexibly, as restorations can either be milled at a clinic with the Planmeca PlanMill 4.0 milling unit, or easily sent to a dental lab in an open STL data format.

Standardised data is the driving force behind many of the latest developments in digital dentistry, as it guarantees the interoperability of images and dental data across different hardware platforms. Bringing Planmeca’s CBCT and CAD/CAM systems together through the Planmeca Romexis software platform makes effective chairside dentistry a reality and presents dentists with a streamlined opportunity to substantially grow their practice.

A streamlined digital workflow also ensures the full utilisation of resources, according to Planmeca, leading to a more efficient treatment environment. Instead of two visits, patients can be treated in one hour and with no temporary crowns or physical dental models required.

**Nobel Biocare, Switzerland**

www.nobelbiocare.com

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According to GC, continuous development of restorative materials is essential to give dental professionals and the patients more options to achieve excellent quality fillings with the best aesthetic results, while maintaining optimal physical performance at the same time. G-ænial is the company’s answer to the increasing demands to highly aesthetic restorations and superior handling in the market today. A user-friendly restorative that is indicated for highly aesthetic single shade or multi-shade build-ups in all restorative classes, it offers a forward-thinking shading concept that provides enough flexibility to help dentists to achieve aesthetically beautiful restorations.

The material contains different interfaces with different optical properties resulting in varied reflection of light. The excellent ability of G-ænial is related to its extremely diverse structural composition, that results in mimicking the reflectivity of a natural tooth thus capturing the genius of nature and creating invisibility in restorations. G-ænial gives dentists also the option to choose the best handling characteristics suitable to their needs.

While G-ænial Anterior allows them to shape, flow, and sculpt, G-ænial Posterior provides a more packable, firmer consistency. G-ænial does not stick onto the spatula or matrices and allows to extend working time under ambient light extended to four minutes, the company said. A high strength-low shrinkage stress composition, that results in it mimicking the genius of nature and creates invisibility in restorations.

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**State-of-the-art dental milling technology on display in Bangkok**

Roland DG developed the DWX-4W milling machine especially to meet the demands of this growing market.

"By providing a device capable of wet milling a wide variety of materials with reliable precision, we plan to complement our existing portfolio of conventional dry milling machines that already receive great support from dental labs worldwide," explained Shane Adams, Distribution Sales Manager at Roland DG.

According to Adams, Roland DG has identified a market need that it intends to fill.

"In the current market we are familiar with products that combine the functionality of dry milling and wet milling into a single machine," he continues. "While these machines can process a variety of dental CAD/CAM materials, they require a cleaning process when switching between wet and dry milling. This includes the disposal of milling residue, then cleaning the inside of the machine and drying out the processing area."

Roland DG’s multiple device solution of either dry or wet milling can handle the simultaneous processing of different materials without the inconvenience and delay of cleaning.

"Each machine specialises in either wet milling such as the DWX-4W or dry milling such as the DWX-50 and the smaller DWX-4. Furthermore, having separate machines provides the opportunity to add an additional unit to meet production demands, with the ability to run four units offline one PC," Adams said.

Roland DG’s dental milling technologies will be on display at key dental congresses worldwide, including FDI 2015, the company announced.

The recent introduction of CAD/CAM software, CNC milling machines and new restorative materials, has revolutionised the production of dental prostheses, including crowns, copings and bridges. One of the most popular restorative materials is lithium disilicate that is gaining support from dental clinicians and patients for its superior hardness and aesthetic qualities.

**Ivoclar extends marketing network to South East Asia**

In the presence of 100 guests and partners from South East Asia, dental manufacturer Ivoclar Vivadent recently opened a new marketing office in Indonesia.

Located in the western province of Banten, the office is intended to provide marketing support on both clinical and technical products to business partners in the region. The former general manager of Ivoclar China, Jörg Brenn, will head the new operations.

In addition to its marketing office, Ivoclar Vivadent will offer hands-on courses and workshops held by nationally and internationally prominent lecturers and instructors at a new International Center for Dental Education (ICDE), which will add to the company’s extensive list of educational facilities around the world.

In the upcoming months, dental professionals from the region will be able to learn about the ever-expanding Ivoclar Vivadent product portfolio, the Liechtenstein company said.

Brenn warmly invited all dental professionals in South East Asia to utilise the newly created ICDE facilities in Indonesia, not only as a place for education and training, but also for exchanging ideas and experiences.

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**PeriO3 Oil contains natural triple formula for healthy gums**

Ozone has become increasingly important in dentistry in recent years. It has been demonstrated to kill viruses, bacteria and fungi and to promote healing processes by activating the metabolism. The ozonised natural gum therapy effectively supports the treatment of acute and chronic inflammation of the gums and, in contrast to chlorhexidine, causes no discolouration. In addition to olive and castor oil, ozone is a main component of Hoffmann’s PeriO3 Oil. This highly effective combination excels through its excellent tolerability and is even recommended for the treatment of patients who are pregnant or breastfeeding.

Hormonal changes during pregnancy affect the oral vessels, which are then easier for bacteria to penetrate and lead to periodontal diseases faster. According to Hoffmann, PeriO3 Oil is the solution for pregnant and breastfeeding women, particularly owing to the oil not containing any alcohol.

The highly reactive oxygen atoms in Hoffmann’s PeriO3 Oil purposefully eliminate the pathogenic anaerobic bacteria and restore the healthy oral flora. The sensitive oral mucosa and the taste buds are not irritated too. The bactericidal and fungicidal properties of ozonised oils have been scientifically proven, when treating periodontal disease, ozonised oil provides better results than a 0.2% chlorhexidine solution. There are significant benefits when it comes to dealing with staphylococcus aureus and parphysnomonas gingivalis.

**PeriO3 Oil contains natural triple formula for healthy gums**

Hoffmann’s PeriO3 Oil is applied into the interdental spaces or the gingival pockets using a blunt cannula. In order to enhance the effect, professional dental cleaning and calculus removal or curettage should be performed prior to treatment. Hoffmann’s PeriO3 Oil is also suitable for the treatment of gingival injuries, grinding traumas and wounds after tooth extraction. Additional mouthwashes are recommended during the application, the company said.

“I particularly use Hoffmann’s PeriO3 Oil for patients with an inclination to chronic gum inflammations, but also for those with simple gingivitis and for the treatment after periodontal treatment as a supportive measure,” explains dentist Dr André Kaczmarek. “I have successfully treated more than 5,000 cases with this preparation in my dental practice since 1998.”

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