Adressing all problems a clinician faces when restoring a single tooth in the posterior, Nobel Biocare is trying to bring innovation back to the posterior region with its new complete posterior solution. Multiple Nobel Biocare novelties combine to make this solution complete, but the foundation for treatment success is the implant itself, the company said. Here Nobel Biocare offers several options, each engineered for the specific demands of the posterior.

New implant 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 restoratively flexible, too, being compatible with Nobel Biocare’s most innovative restorative solutions, including those specifically designed for the posterior. These include the new PEAK Healing and PEAK Temporary Abutments, which are anatomically shaped to match the molar contours. As the PEAK 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 FCZ Implant Crown removes the need for veneering.

The biocompatibility of the materials used contributes 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.

System hygiene from Dürr Dental for optimum protection against infection

Protection against infection is a number one priority for dental surgeries. Every procedure involves the hazards of microbial contamination and its potential risk of infection for both patients and staff. There can thus be no compromise when it comes to hygiene.

Complete surgery hygiene encompasses systematic instrument preparation, fastidious hand and surface disinfection, as well as comprehensive cleaning and disinfection of water-conveyance systems. But it is no secret that “to err is human,” which includes dental surgeries. The wrong disinfectant, an insufficient application time for hand disinfection, and air bubbles in suction units—hygiene mistakes can be extremely serious. For this reason, Dürr Dental has colour coded its preparations with a special four-colour-system to provide users with greater clarity.

Application: green for surfaces, blue for instruments, yellow for special areas and suction units, and pink for skin and hands. Dürr Dental concentrate for instrument disinfection ID 213 or drill disinfection ID 220, for example, are coded with the colour blue. Both preparations are bactericidal, tuberculocidal, fungicidal and fully virucidal against enveloped and non-enveloped viruses. They meet all requirements of the Robert Koch Institute.

Pink is for hand disinfection and features products such as the rub-in preparation HD 420. Application time for hygiene disinfection is cut in half from 30 to 15 seconds, and surgical hand disinfection requires only 15 minutes as opposed to the normal 5 minutes. It is also moisturising and gentle on skin, the company said.

Green is the Dürr System colour for disinfection of contaminated surfaces. The wipe disinfectant FD 322 boasts a 15-second application time, and fully virucidal quick disinfection FD 333 an application time of one minute. Preparations such as FD 366 sensitive, in combination with imitation leather cleaner FD 360 helping to prevent brittle and cracked surfaces, are suited to the gentle disinfection of imitation leather. FD 300 (full virucidal) and FD 312 have been tested precisely for floor disinfection and cleaning.

Disinfection and cleaning products in the fourth, yellow-coded specialty area, remove pathogens from suction units. Their active ingredients have been tested precisely for effectiveness in this area of application. The foam-free liquid concentrate Drotol plus with long-term effect is suited to simultaneous disinfection, cleaning, decontaminating as well as for floor units and amalgam separators.

Owing to its bactericidal, fungicidal, tuberculocidal and limited virucidal properties, it reliably dissolves and disinfects biofilm and helps prevent the clogging of blood and protein. Its material compatibility also makes it gentle on system parts and it combines well with the MD 555 cleaner, a foam-free cleaning concentrate.

DÜRR DENTAL, GERMANY
www.duerrdental.de
Booth A68

Nobel introduces complete posterior solution

Alternatively, clinicians can opt for NobelParallel Conical Connection (CC). Combining a parallel-wall-implant body that is well documented with an advanced internal connection, this implant offers extraordinary flexibility. It is engineered for use in all bone qualities and for a wide range of indications.

The 5.5 mm wide platform option is designed for an optimised emergence profile for large molar sites. Mechanical strength. It offers restorative flexibility too, being compatible with Nobel Biocare’s most innovative restorative solutions, including those specifically designed for the posterior. These include the new PEAK Healing and PEAK Temporary Abutments, which are anatomically shaped to match the molar contours. As the PEEK Abutments come ready-shaped for an optimized emergence profile, fewer adjustments are needed. This can simplify treatment and reduce costly chair time.

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Patient care and digital workflow in focus of 3Shape advisory board meeting

I The 3Shape Dental Advisory Board met in Copenhagen recently to examine ways for innovating the digital dentistry workflow, and in turn, improving patient care. The board made digital workflow-optimisation and its impact on patient care its theme for the second annual meeting of the group.

The 3Shape Dental Advisory Board comprises four dentists and one dental lab owner. Board members are from Australia, Brazil, Canada, China, Denmark, Germany, South Korea, Spain, Switzerland, and the USA. The group met at 3Shape’s headquarters in Copenhagen, Denmark on August 27-28. Leading digital dentistry advocate and practitioner Dr Jonathan Ferencz from the USA chaired the two-day meeting.

“Last year, many of the advisory board members told me that the two-day meeting was the highlight of their careers. I think we topped that this year’s meeting,” said Dr Ferencz.

When it comes to the third annual session of the board, he said: “3Shape’s goal is to improve patient care. And because of that, dentists and other stakeholders need to find ways to make care safer and more efficient.”

But it is no secret that “to err is human,” which includes dental surgeries. The wrong disinfectant, an insufficient application time for hand disinfection, and air bubbles in suction units—hygiene mistakes can be extremely serious. For this reason, Dürr Dental has colour coded its preparations with a special four-colour-system to provide users with greater clarity.

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DÜRR DENTAL, GERMANY
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Booth A68

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 cusp 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.

NOBEL BIOCARE, SWITZERLAND
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Booth A21

Business
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GC exhibits a whole new level in glass ionomer technology

With EQUIA, aesthetic bulk placement is now possible in posterior restorations, according to dental manufacturer GC. EQUIA is an advanced restorative system that features a new generation of glass particles (EQUIA FIT Capsules) and a highly-filled resin coating material (EQUIA Coat). This way, it combines quick and easy handling with good physical properties and aesthetics.

As a biomimetic filling material, EQUIA enhances remineralization by allowing diseased dental tissues to heal through the release of fluoride. Owing to the unique secondary maturation effect attributed to saliva, it also provides increased strength for the glass ionomer over time. A single layer of nano-filled EQUIA Coat not only protects the restoration against moisture contamination and acid erosion but also exponentially increases the physical properties of the EQUIA filling, including wear resistance and fracture toughness.

EQUIA is routinely used as part of treatment strategies for deeper lesions, caries stabilization and general restorative care of higher caries risk patients, geriatric and paediatric patients. Over the last five years, the clinical performance of EQUIA has been highly appreciated by clinicians worldwide. Together with various ongoing clinical studies, EQUIA is proving itself as a long-lasting posterior restorative alternative for daily routine practice (in the given indications).

GC, ASIA, SINGAPORE
www.gcasia.info
Booth A237

Planmeca FIT

The Planmeca PlanCAD Easy design software is ideal for a wide range of prosthodontics planning. It provides the perfect tools for sophisticated 3-D designing and chairside milling into one system, allowing clinics to treat patients in a single appointment.

Since the Planmeca PlanScan intraoral scanner can be integrated with any digital Planmeca dental unit, it can be used just like any other instrument and easily shared between different clinicians. Live scanning data can be constantly accessed from a dental unit’s tablet device, while sound guidance further ensures optimal data capture.

Planmeca FIT seamlessly integrates intraoral scanning, 3-D designing and chairside milling into one system, allowing clinics to treat patients in a single appointment. Together with various ongoing clinical studies, EQUIA is proving itself as a long-lasting posterior restorative alternative for daily routine practice (in the given indications).

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All steps of the Planmeca FIT workflow can be controlled and accessed through the Planmeca Romansis software platform. In addition, the software provides remote real-time usage information on the Planmeca PlanMill 40 milling unit, allowing clinicians to locate resources and monitor ongoing milling processes.
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24 September ‘15 (Thursday) 11:00 – 12:00

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I Based in Cologne in Germany, Adentatec is a global provider of non-precious dental alloys on cobalt-chrome and nickel-chrome base, as well as CAD/CAM discs on cobalt-chrome and titanium base. Its SYSTEM SOFT-BLANK is a nickel- and beryllium-free cobalt/chrome disc for use in CAD/CAM processes. Furthermore, it is suitable for soldering. SYSTEM SOFT-BLANK is especially soft, good tensile and homogeneous owing to special heat treatment and features high corrosion resistance and biocompatibility. According to the company, it is available in many diameters and measurements, for almost every type of machine.

Established in 1997, Adentatec offers a high-quality range of products for dental laboratories.

All medical devices distributed by the company are exclusively produced in Germany and are certified to the highest standards (CE marking and US Food and Drug Administration), as it is committed to the strict implementation of the quality and process requirements of DIN EN ISO 13485 and DIN EN ISO 9001 for its entire manufacturing process.

ADENTATEC, GERMANY
www.adentatec.com
Booth A64

I Soredex: Right tools for the job

I At the FDI Annual World Dental Congress, SOREDEx, a Finnish manufacturer of high-quality imaging products, is presenting easy-to-use solutions aimed at improving patient care and clinic efficiency. With its CRANEx 3Dx three-in-one imaging system, SOREDEx is now able to offer a 2-D or 3-D imaging solution for a wide variety of diagnostic tasks in the dento-maxillofacial, head and neck, and ENT regions. 3-D imaging is fast becoming indispensable in diagnostic work.

SOREDEX is showcasing its most advanced CRANEX extraoral imaging device to date. The CRANEx 3Dx system combines panoramic and cephalometric imaging with advanced CBCT imaging. It features five fields of view (from 5 x 5 cm to 13 x 15 cm) with a selection of resolutions, including high, standard and a low-dose programme called Minidose. Minidose 3-D programmes are recommended for radiation dose-sensitive cases, such as children, for implant planning, sinus imaging, and follow-up imaging, to name just a few applications. In addition, CRANEx 3Dx provides a specific endodontic programme, ensuring accuracy and detailed diagnostic information for challenging cases.

At Booth A286, SOREDEx is also exhibiting CRANEx Novus e, a 2-D digital panoramic unit with a new sectional panoramic programme. Moreover, congress attendees can view the MINIRAY intra-oral radiographic unit and well-known DIGORA product family at the booth. Launched in 1994, DIGORA, which comes in two models, continues to be the industry benchmark.

Dental imaging has never been as exciting as it is today, and 3-D imaging is rapidly changing the way clinicians perform diagnosis and determine subsequent treatment. More information about diagnostic imaging and optimising the imaging workflow can be found at www.soredex.com.

SOREDEX, FINLAND
www.soredex.com
Booth A286

Whole range of laboratory products on display by Adentatec

Adentatec is a global provider of non-precious dental alloys on cobalt-chrome and nickel-chrome base, as well as CAD/CAM discs on cobalt-chrome and titanium base. Its SYSTEM SOFT-BLANK is a nickel- and beryllium-free cobalt/chrome disc for use in CAD/CAM processes. Furthermore, it is suitable for soldering. SYSTEM SOFT-BLANK is especially soft, good tensile and homogeneous owing to special heat treatment and features high corrosion resistance and biocompatibility. According to the company, it is available in many diameters and measurements, for almost every type of machine.

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Growing CAD/CAM abutment adoption vs increasingly popular discount implants

Opposing pricing trends to influence Asia Pacific dental implant market. By Dr Kamran Zamanian & Celine Mashkoor, Canada

The various countries in the Asia Pacific region are all expected to demonstrate an increasing demand for dental implant treatments as a result of growing consumer awareness, the ageing population, growing accessibility (such as through the National Health Insurance Service coverage in South Korea), as well as greater product availability and other influencing factors. Traditionally, premium implant companies have dominated the dental implant market globally. However, in recent years, discounted implants have become increasingly popular, especially in the Asia Pacific region.

The growth of the discount implant segment will emerge at the expense of the premium segment and as a result is set to limit market growth for dental implant fixtures by 2021. To date, units of premium dental implant fixtures have dominated the market, growing adoption of CAD/CAM abutments, which have traditionally been more expensive than stock abutments. However, due to the growing adoption of CAD/CAM milling centres have been observed to be more cost sensitive relative to specialists. As a result of a growing number of general practitioners in the market, consumer preferences are shifting towards discount solutions. Discount implant companies from the US and South Korea have recently been gaining market share in Australia. Throughout the forecast period, the premium segment of the market is expected to grow at far lower annual growth rates relative to the discount and value segments in Australia. By 2021, it is expected that discount implants will represent 42% of the overall units in the Australian market.

The Japanese and Chinese markets for dental implants are also dominated by premium companies. In recent years, OSSTEM IMPLANT has had a significant impact on the Chinese market. However, as a result of the growing Chinese population, dental implant procedures in Australia, and international preferences are shifting towards discount solutions. Discount implant companies from the US and South Korea have recently been gaining market share in Australia. Throughout the forecast period, the premium segment of the market is expected to grow at far lower annual growth rates relative to the discount and value segments in Australia. By 2021, it is expected that discount implants will represent 42% of the overall units in the Australian market.

The overall region is set to demonstrate an increasing ASP. CAD/CAM final abutments are relatively more expensive than stock abutments, which have traditionally dominated the market. The shift towards CAD/CAM abutments is set to grow at a compound annual growth rate of 22.1%. By 2021, CAD/CAM abutments are forecast to represent 30.6% of the overall abutment units in Asia Pacific.

CONCLUSION

Overall, the dental implant market, including fixtures and abutments, is set to grow at a compound annual growth rate of 15.1% for the Asia Pacific region. The unit growth will far outweigh the ASP effects, and the dental implant market will grow to reach a higher penetration ratio for the overall Asia Pacific region.

Growing CAD/CAM abutment market vs declining unit share of stock and custom cast abutments.

The growing acceptance of discount implants has been driven by Asian companies. The regional market leader, OSSTEM IMPLANT, held a 21.9% share of the total dental implant market for the Asia Pacific region in 2014. The company has invested significantly in marketing efforts, which has led to the growing popularity of its products. Throughout the forecast period, OSSTEM IMPLANT and other discount implant companies, such as MegaGen, Dentium and Neobitech, are expected to capitalise on the growing popularity of discount implants.

In contrast, premium implant companies, such as Straumann and Nobel Biocare, are expected to face increasing competitive pressures, especially in China and Australia.

EMPHASIS ON CAD/CAM

In the dental implant market, the final abutment market is undergoing an opposing pricing trend relative to dental implant fixtures. CAD/CAM abutments are being increasingly utilised in the place of cheaply produced stock abutments. CAD/CAM development has been relatively rapid in the Asia Pacific region in recent years. A growing number of CAD/CAM milling centres have emerged to produce CAD/CAM abutments for the dental implant market. The overall region is set to demonstrate significant growth in the CAD/CAM segment for final abutments. In contrast to the dental implant fixture market, where discount products are gaining share, the overall final abutment market is set to demonstrate an increasing ASP. CAD/CAM final abutments are relatively more expensive than stock abutments, which have traditionally dominated the market. The shift towards CAD/CAM abutments is set to be most significant in China. For the overall region, units of CAD/CAM abutments are set to grow at a compound annual growth rate of 22.1%. By 2021, CAD/CAM abutments are forecast to represent 30.6% of the overall abutment units in Asia Pacific.

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