Dentsply Sirona at AEEDC 2018

By Dentsply Sirona

The 22nd edition of the UAE International Dental Conference & Arab Dental Exhibition – AEEDC Dubai 2018 will take place at the state-of-the-art Dubai International Convention & Exhibition Centre (DICEC) from the 6th to the 8th February 2018.

Dentsply Sirona would like to welcome you to our stand in Hall 8 at 8C01-8D01. By combining leading consumable product brands with equipment, technology and specialty products, Dentsply Sirona partners with dental professionals and labs to advance patient care and fundamentally improve oral health worldwide.

As The Dental Solutions Company™, Dentsply Sirona provides high-quality solutions that support the needs of dental professionals around the globe. We are committed to innovation, improving clinical outcomes and patient experience.

We are excited to showcase our latest products to you at the upcoming UAE International Dental Conference & Arab Dental Exhibition in Dubai. With the largest research and development platform in the industry, Dentsply Sirona is committed to its mission of empowering dental professionals to provide better, safer, faster dental care.

Here is a sneak peak of what to expect:

**Single Visit Dentistry with CEREC & Celtra® Duo**

Single visit dentistry is an emerging expectation amongst patients today. Everything from a single source for better, safer and faster dentistry, and this is made possible by CEREC. No other material block offers CEREC users the level of workflow freedom and flexible processing options as Celtra® Duo (ZLS). In combination with Prime&Bond universal™ Adhesive and Celtra® Ceram Cement it is easy to achieve excellent results. These products were designed to enhance and strengthen the individual benefits each of them provides, resulting in an easy-to-use system that streamlines the restoration process.

**Class II Solution™**

Dentists face a variety of challenges in every step of a Class II procedure and as Class II restorations account for nearly half of all direct restorations, getting them right the first time is key to happy patients and profitability. Dentsply Sirona’s Class II Solution™ offers a portfolio of products designed to work together to help you better manage restorative performance and give your patients an improved Class II experience. From matrix system to bulk fill flowable to universal composite, the Dentsply Sirona Class II Solution™ is the only complete solution with unmatched adaptation at each critical step of a Class II restoration.

**WaveOne® Gold Solution**

The WaveOne® Gold family provides a comprehensive treatment solution to promote confidence and predictable outcomes. WaveOne® Gold delivers to the endodontic procedure a metallurgically advanced single-file technique for shaping canals - all within a reciprocating motion. You can easily plan your endodontic treatment with the new 3D Endo™ Software. Thanks to the intuitive user interface and views optimised for Endodontics, you can create a 3D map of the canal network and see what you used to feel within a minute. The X-Smart IQ™ will then support you through every step of your endodontic treatment - from patient education to treatment data.

**The Celtra® family**

Celtra® Press is the new class of zirconia-reinforced lithium silicate material available to labs for pressings. This unique material provides top aesthetics and is virtually impossible to tell apart from a natural tooth. With its strength in excess of 500 MPa, Celtra® Press creates a new benchmark in the high strength glass-ceramics segment. In addition to its high strength, Celtra® Press’s high glass content and fine crystal-line structure provides outstanding light-optical properties. Thanks to this combination of high translucency and opalescence, Celtra® Press exhibits an amazingly natural cha-meloon effect which allows restorations to blend into the natural dentition extremely well. Celtra® Ceram veneering porcelain is also available to labs for additional customisation and ultra-premium aesthetics, giving shade confidence with out of the bottle shade accuracy.

**Digital Dentistry with inLab and Cercon®**

The inlab components from Dentsply Sirona are optimised for the daily routine of dental technicians and are a digital tool for dental expertise and skills. Scanners, software and production units are optimally coordinated and together they provide a solution for a broad range of indications and user-friendly applications. Dentsply Sirona’s digital materials are optimised to work within all Dentsply Sirona scanning machines, milling machines and furnaces. Zirconia is the strongest all-ceramic restoration material on the market. The high-performance zirconia materials Cercon® xt and Cercon® hit are available for almost all CAD/CAM systems as printer and ingot disks for sophisticated restorations.

**Astra Tech Implant System® EV**

Join the EVolution with Astra Tech Implant System® EV. The foundation of this evolutionary step remains the unique Astra Tech Implant System® BioManagement Complex®. Well-documented for its long-term marginal bone maintenance and aesthetic results. The Astra Tech Implant System® EV is designed with a site-specific, crown-down approach based on the natural dentition for increased surgical simplicity and flexibility and restorative ease — without compromising the unique Astra Tech Implant System BioManagement Complex®.

Come and visit us on stand 8C01-8D01 in hall 8 to find out more!

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Study finds link between obesity, gender and periodontal health

By DTI

MADRID, Spain/PORTO ALEGRE, Brazil: Although researchers have previously investigated and analysed the relationship between periodontitis and obesity, little attention has been paid to the role an individual’s biological gender may play in this regard. A recently published, five-year study of individuals in Porto Alegre, Brazil, has rectified this oversight and has discovered that obese females are far more likely to suffer from the progression of periodontal attachment loss (PAL) than obese males.

The study’s research team interviewed 582 individuals who had been interviewed and clinically examined five years prior and met their inclusion criteria. These individuals were weighed and their Body Mass Index was calculated according to the World Health Organization’s criteria, with 19 per cent of the sample being categorised as obese.

The researchers discovered that obese individuals were more likely to experience the progression of periodontal disease than those of normal weight. However, their findings also demonstrated that obese females had a 64 per cent increased risk for PAL progression, whereas there was no observed increase in this risk for obese males.

“Obesity and periodontal disease are important public health problems,” explained Dr Eduardo José Gaio, the lead author of the study.

“Periodontitis affects more than 50 per cent of adults worldwide and the prevalence of overweight and obesity in individuals is approximately 60 per cent. This is one of the few longitudinal studies assessing the effect of obesity on periodontal health and the first one to investigate the possibility that sex may modify this relationship.”

Gaio’s study is one of the finalists for the inaugural Perio Link Award, a competition organised by the SUNSTAR Foundation. Adjudicated by a committee of dental experts, the competition is designed to raise public awareness of the important research that is being conducted on the link between oral and systemic health. The winner of the Perio Link Award will win a trip to EuroPerio9, a congress hosted by the European Federation of Periodontology in Amsterdam, from 20 to 23 June 2018.

The winner will be formally recognised at an awards ceremony at the event and will receive a monetary prize of €1,000.

The study, titled “Effect of obesity on periodontal attachment loss progression: a five-year population-based prospective study”, was published online in March 2017 in the Journal of Clinical Periodontology Digest and is available for viewing here.

A five-year study in Brazil has found that obese females are more likely to experience the progression of periodontal attachment loss (PAL) than obese males (Photo: Shutterstock/By khomkrit sangkatechon)
Dry mouth in older adults may be drug-induced

Older adults are high users of medications, with about 40 per cent of community-dwelling and 75 per cent of institutionalized adults taking five or more medications. (Photograph: Shutterstock/By FuzzBones)

By DTI

MELBOURNE, Australia/STOCKHOLM, Sweden: For older adults, salivary gland hypofunction can be a common side-effect of prescribed medications. The condition can lead to dental caries, dysgeusia, oral mucosal soreness and oral candidiasis, among others. In a systematic review and meta-analysis, researchers have sought to learn more about the connection between medications and dry mouth in older adults. They found that medication use was significantly associated with xerostomia and salivary gland hypofunction in older adults.

So far, only few studies have investigated the severity of medication-induced dry mouth and the associated sequelae. Postdoctoral research fellow Dr Edwin Tan of Monash University in Australia worked closely with researchers from Karlstad University and the Academic Center for Geriatric Dentistry, both in Sweden, to screen titles and abstracts of a total of 1,544 studies investigating medication use as an exposure and xerostomia or salivary gland hypofunction as adverse drug outcomes. In the end, 52 were deemed eligible for inclusion in the final review and 26 in the meta-analysis.

In the intervention studies included, urological medications, anti-depressants and psycholeptics were significantly associated with dry mouth in adults over the age of 60. In the observational studies, numbers of medications and several medication classes were significantly associated with xerostomia and salivary gland hypofunction.

Medications used to treat urinary incontinence were nearly six times more likely to cause dry mouth than a placebo.

The scientists recommended that future research develop a risk score for medication-induced xerostomia to assist with prescribing and medication management. They also suggested that health care providers should regularly monitor and review all medications to identify potential side-effects and to adjust doses or change medications when necessary.

The study, titled “Medications that cause dry mouth as an adverse effect in older people: A systematic review and metaanalysis”, was published online ahead of print on 26 October 2017 in the Journal of the American Geriatrics Society.
Biofilm research could help advance dentistry

By DTI

MUNICH, Germany: According to experts, biofilms are generally regarded as a problem to be eradicated due to the threats they pose to humans and materials. However, new research out of Germany suggests that communities of algae, fungi, or bacteria possess interesting properties from both a scientific and technical perspective. These properties could result in the improved creation of structural templates, including materials for teeth.

All natural materials (whether wood, bone, mother of pearl or teeth) have been optimised by evolution over millions of years, based on the principle of adapted stability with the lowest possible weight where nature provides the blueprints for many technical developments. However, reverse-engineering replicas cannot reproduce the structural complexity of the original material in nature.

“In nature, we find many materials with properties that artificial materials are unable to replicate in the exact same fashion,” said Prof. Cordt Zollfrank, who, together with his team, researches basic scientific principles for the development of new materials at the Chair of Biogenic Polymers at the TUM Campus Straubing for Biotechnology and Sustainability.

Zollfrank and his team of researchers have now presented a series of procedures in biology that use light, heat, specially-prepared substrates and other stimuli to guide the direction of the movement of microorganisms along very specific paths. “These biological findings for controlling microbes via targeted stimuli will shape the future of material research,” said Zollfrank. According to the paper, the findings make it possible to create tailor-made templates for new materials with natural structures from the microbes themselves, or their secretions. “With our article, we want to show the direction this journey will take us in the field of biologically inspired material science,” Zollfrank continued.

Following on from the paper, and as part of a Reinhart Koselleck project of the German Research Foundation (DFG), scientists are already using the technology to a certain point. Taking advantage of the special properties of red algae, which secrete chains from sugar molecules and whose direction of movement depends on exposure to light, scientists are projecting light patterns that change into the growing medium of the algae over time—using them to create long, fine, polymer threads that serve as customized templates for the manufacturing of functional ceramics.

The paper, titled “A perspective on bio-mediated material structuring,” was published on 27 November in the Advanced Materials journal.