The right system for the demands and needs of dentists and patients

By Dental Tribune Siona

CEREC satisfies an impressive scope of clinical demands. And now patients expect a full contour zirconia restoration within one session – a material that is known for tremendous strength and biocompatibility, and which offers various clinical workflow advantages for practitioners.

Bensheim/Salzburg: For more than 30 years, CEREC has been offering patients a functional and aesthetic dentistry experience. During that time CEREC has continuously added new materials to the system including, PFMAs, composites, feldspars and lithium disilicate ceramics. Adding full contour zirconia crowns and small bridges to the portfolio completes CEREC’s range of prosthetic indications. Roddy MacLeod, Group Vice President CAD/CAM at Dental Tribune Siona, explains why PFMAs is joining the company to take this step.

Mr. MacLeod: why are you now also offering full contour zirconia for the production of chairside crowns and bridges?

Roddy MacLeod: We have noticed two megatrends in dentistry: the continued adoption of digital dentistry (including CEREC) and dentists’ rapid adoption of full contour zirconia, particularly for posterior indications where strength is the priority. As the market for digital technology, we have naturally combined these two trends. The result is the new CEREC Zirconia workflow. We believe that adding full contour zirconia to the existing materials available within CEREC gives the clinician the maximum flexibility to handle nearly any clinical situation. And to be able to do it all in a single visit certainly adds patient and practice benefits.

What is special about this workflow?

Zirconia has been used in dentistry for close to 20 years so the material is familiar to clinicians. The innovation now is delivering full contour zirconia in a single visit. To do this, we have developed the CEREC Sirona Spire furnace. Due to its extremely fast sintering speed, it enables dentists to fabricate crowns and small bridges made of zirconia inside a single visit. In addition to fast sintering, glazing is also possible with this furnace – a first in the market. The short workflow is both convenient and economical. Our CEREC Zirconia blocks are available in 30 shades on the basis of the VITA Classic Shade Guide®. All our CEREC milling units are now wet and dry milling capable. Dry milling is the preferred method for zirconia since it eliminates a drying step before sintering, saving us time. The whole process is guided by our new Sirona CEREC 4.41 which makes it very easy even for beginners since the sintering and glazing information is automatically transferred to the furnace by the software. The staff does not need to program the furnace – this is all taken care of in the software.

In our experience, patients really appreciate this single visit treatment that is additional to our current material setup. What does that mean for patients?

Like before with CEREC, patients get long-lasting, highly aesthetic crowns in a single session. But now with full contour zirconia we have expanded our indications into cases where strength of the material is paramount.

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By expanding now CEREC’s indication with full contour zirconia, even more patients can experience the benefits of single visit procedures.

What do you think the advantages for dentists are?

For dentists, full contour zirconia is the first material acting as a good substitute for the industry standard PFM and even more so for cast restorations. The reasons the material is very strong and, from a mechanical point of view, sufficiently capable of bearing clinical stress. Full contour zirconia also means we don’t have problems with chipping, which can be an issue with conventional multilayered prosthetics. Moreover, the material is biocompatible and less expensive to manufacture. The biggest advantage for dentists is reliability. The material is nearly indestructible and they don’t need to change their tooth preparation technique or cementing protocol. Zirconia is adding to our already excellent portfolio of materials, however with a very crucial role. It has abundant strength and is well suited for those cases where durability and longevity are the primary concerns.

Due to its strength, zirconia is often said to be problematic with regard to wear of the antagonist. What role does this play?

Yes, it is kind of counter-intuitive. On the one hand you have this incredibly strong material and we automatically think it must be abrasive against the antagonist. In fact, we have learned through numerous studies that the abrasion is not caused by the hardness, but primarily by the surface roughness. This means the smoother the surface, the less the abrasion. It has been suggested that a polished full contour zirconia crown is less abrasive than a crown made of other materials. Consequently, even bruxism is no contraindication for the use of zirconia.

How does full contour zirconia behave in terms of accuracy of fit?

Very positively. Since the zirconia blocks are presintered, the material is circa 25 percent larger than in the final, full sintered state. Because the Finisher 10 milling instrument is relatively smaller than normal grinding burs, the margins, lumen and occlusal are all milled with the greatest detail. And, since there is no facing on a metal framework there are no overcontoured margins. Overall we see superb fit coming from full contour zirconia restorations and we’re excited to bring these benefits chairside.

References

2. Envia GmbH, German dental patient survey, November 2015

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Accredited hands-on courses in Aesthetic Dentistry in Dubai

By Dental Tribune MEA/CAPP Events

DUBAI, UAE: Centre for Advanced Professional Practices (CAPP) Event announces new courses in Aesthetic Dentistry in November 2016. The courses are aimed at dental professionals who would like to receive additional CE Credit Hours alongside bringing their knowledge to the next level.

All below mentioned hands-on courses are part of the annual Dubai Dental Week between 01-07 November 2016 at Jumeirah Beach Hotel.

The following hands-on courses will be available in Dubai between 01-07 November 2016 at Jumeirah Beach Hotel:

1. Digital Smile Design Part 1 & 2
   02-03 November 2016, 09:00 - 18:30
   Dr. Eduardo Mahn, Chile

2. Smile Design & Aesthetic Restorative Options Part 1 & 2
   02-03 November 2016, 09:00 - 18:00
   Prof. Brian Millar & Mr. Bill Sharpling, UK

3. Restorative & Aesthetic Certificate Module 2
   02-03 November 2016
   Dr. James Russell, UK & Prof. James Prichard, UK

4. The Style Italiano Approach to Veneers
   03 November 2016, 09:00 - 18:00
   Prof. Angelo Potgieter, Italy

5. Non-Prep Veneers and Modified Non-Prep Veneers
   03 November 2016, 09:00 - 18:00
   Dr. Eduardo Mahn, Chile

6. Direct Veneers: How to Create the Right Shape and Achieve the Desire Shade
   03 November 2016, 09:00 - 18:00
   Dr. Eduardo Mahn, Chile

7. Tips and Tricks of Non- Surgical Powered Instrumentation and Polishing to Brighten Smile
   04 November 2016, 09:00 - 18:00
   Dr. Eduardo Mahn, Chile

8. Modern Preparation and Cementation for Inlays, Onlays and Occlusal Veneers
   05 November 2016, 09:00 - 18:00
   Dr. George Sassa, USA

9. Modern Preparation and Cementation for Inlays, Onlays and Occlusal Veneers
   05 November 2016, 09:00 - 18:00
   Dr. Eduardo Mahn, Chile

10. Advanced Composite Course (Clasping, Desaturation and Correction of Pig Lateralis)
    06 November 2016, 09:00 - 18:00
    Dr. Eduardo Mahn, Chile

11. The New Concept of Alignment, Bleaching and Bonding (Inman Aligner Certification)
    06 November 2016, 09:00 - 18:00
    Dr. Eduardo Mahn, Chile

12. Veneers Vs Crowns: the Challenge in Smile Design
    06 November 2016, 09:00 - 18:30
    Dr. Munir Silwadi, UAE

13. Indirect Veneers
    07 November 2016, 09:00 - 18:30
    Dr. Eduardo Mahn, Chile

14. Practical Clinical Orthodontics Fellowship Module 1
    07-12 November 2016, 08:00 - 16:00
    Dr. Eduardo Mahn, Chile

Upon completion of the hands-on courses delegates will receive accreditation from ADA C.E.P. Health Authority – Abu Dhabi (HAAD) and Dubai Health Authority (DHA).

Contact
The above mentioned courses have limited spaces available and all interested participants are requested to contact CAPP Events to reserve their places or visit www.cappmea.com/aesthetic2016