CEREC satisfies an impressive scope of clinical demands. And now patients can receive a full corona 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 dental restoration. During that time CEREC has continuously added new materials to the system including, PMMA, composites, feldspar and lithium disilicate ceramics. Adding full contour zirconia crowns and small bridges to the portfolio completes CEREC’s range of prosthetic indications. Dr. Roddy MacLeod, Group Vice President CAD/CAM at Dentsply Sirona, explains why his company decided 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 has developed and matured, we believe that full contour zirconia enables 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 benefit.

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 SpeedNew Crown. 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 crown – a first in the market. The short workflow is both convenient and economical.

Our CEREC zirconia blocks are available in 10 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 software 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. We are convinced that this workflow is the most convenient addition to our current material setup.

What does that mean for patients? Like before with CEREC, patients get longlasting, high-quality, affordable care in a single session. But now with full contour zirconia we have expanded our indications into cases where strength of the material is paramount.

In our experience, patients really appreciate single visit treatment. Recent surveys, for example, showed that patients recommend CERECdentist 95 percent more often than patients whose dentist does not work with CEREC. As advantages they mention the time savings, the reduced number of injections and the elimination of impressions and temporary crowns. In Germany, according to another patient survey, the majority of patients would be willing to pay more for treatment in one session, and two thirds of respondents would be willing to travel further (or even change dentists) in exchange for that benefit.

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

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 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 milled 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 not a contraindication for the use of zirconia.

"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. Enerva GmbH. German dental patient survey. November 2013

By Dental Tribune MEA/CAPP Events

Dental Tribune MEA/CAPP Events announces new courses in Aesthetic Dentistry in November 2016. The courses are aimed at dental professionals bringing their knowledge to the next level.

The above mentioned courses have limited spaces available. 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 04 November 2016 at Jumeirah Beach Hotel:

1. Digital Smile Design Part 1 & 2 02-05 November 2016, 09:00 – 18:00 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 Shaping, UK
3. Restorative & Aesthetic Certificates Module 2 02-03 November 2016 Dr. James Russell, UK & Prof. James Pitchard, UK
4. The Style Italiano Approach to Veneers 03 November 2016, 09:00 – 18:00 Prof. Angelo Potiguara, Italy
5. Non-Proc. Veneers and Modified Non-Proc. Veneers 03 November 2016, 09:00 – 18:00 Dr. Eduardo Mahn, Chile
6. Direct Veneers. How to create the Right Shape and Texture and Achieve the Desire Shade 04 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. George Sardooggi, USA
8. Modern Preparation and Cementsation for Inlays, Occlusals and Onlays Veneers 05 November 2016, 09:00 – 18:00 Dr. Eduardo Mahn, Chile
9. Advanced Composite Course (Closing,Diastemas and Correction of Pig Lateral) 06 November 2016, 09:00 – 18:00 Dr. Eduardo Mahn, Chile
10. The New Concept of Alignment, Bleaching and Bonding (Innan Aligner Certification) 06 November 2016, 09:00 – 18:00 Shoaib Deen, IAAC, UK
11. Indirect Veneers 06 November 2016, 09:00 – 18:30 Dr. Munir Silwadi, UAE
12. Veneers Vs Crowns the Challenge in Smile Design 07 November 2016, 09:00 – 18:00 Dr. Eduardo Mahn, Chile
13. Inlay, Onlays & Partial Crowns 07 November 2016, 09:00 – 18:30 Dr. Munir Silwadi, UAE
14. Practical Clinical Orthodontics Fellowship Module 1 07-12 November 2016, 09:00 – 16:00 Dr. Dubravko Periccia, USA

For more information please visit our website: www.dentaltribunemea.com/aesthetic2016

See the latest from Platinum Sponsor at 8DFCIC in Dubai. 04-05 November 2016 www.cappmea.com/aesthetic2016

Accredited hands-on courses in Aesthetic Dentistry in Dubai

CEREC is a system that offers an impressively wide range of options, from single restorations to entire smiles. It is a system that is used by many of the top dentists in the world. It is a system that is known for its accuracy, predictability, and ease of use. It is a system that is known for its ability to deliver results that are both functional and aesthetic. It is a system that is known for its ability to deliver results that are both affordable and high-quality. It is a system that is known for its ability to deliver results that are both convenient and economical.

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

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.