A Challenging Class II Restoration

By Dr. Stergios Zafiriadis, DDS, Switzerland

About the Case
A pulp fracture on the lower second premolar brought this patient to the office. The large amalgam restoration was removed, and secondary decay noted. Once the existing amalgam and decay were removed, the remaining tooth structure indicated a very large, very challenging Class II restoration was required.

Challenge
Traditionally, a restoration of this size would require an incremental placement technique in which several time consuming layers would be required. In addition, this adds to the chance of contamination of the tooth, or contamination between layers of composite. Bulk placement of Filtek™ Bulk Fill Posterior Restorative allows this restoration to be completed in one increment, making the procedure more time efficient.

The 3M Difference
Completing a restoration of this scale can be challenging. Filtek™ Bulk Fill Posterior Restorative enables one-step placement up to 5mm for fast and easy posterior restorations.

Fig. 1: Preoperative. Broken cusp and secondary decay are evident on this lower second premolar

Step by Step

Fig. 2: The tooth has been isolated and prepared

Fig. 3: Enamel is being etched using a selective etch approach. A universal adhesive will be used to etch and bond the dentin

Fig. 4: After rinsing, Single Bond Universal Adhesive is being applied to the etched enamel and the unetched dentin. After solvent evaporation, the adhesive is light cured

Fig. 5: Filtek™ Bulk Fill Posterior Restorative, shade A3 was then placed in a single increment

Fig. 6: Contouring was accomplished using traditional hand instruments

Fig. 7: It was then cured according to the instructions for use

Fig. 8: Sof-Lex™ Discs were used to help contour interproximally

Fig. 9: Sof-Lex™ Spiral Polishing Wheel is excellent for polishing occlusal surfaces

Fig. 10: The final restoration

Polish with diamonds. Skip the paste.
A difference that you can see!

By 3M

How much time and effort do you spend creating beautiful smiles? Whether you currently use a rubberized finishing and polishing system or an intraoral diamond polish, the process can be time consuming. And, even with your best effort, the gloss may not last. 3M has a simple solution for both problems, using two of our innovative technologies.

Forget the paste. Sof-Lex™ Pre-polishing Spiral. The pre-polishing spiral (beige) smooths and removes scratches in restorations that develop during contouring and prepares the surface for high gloss polishing.

Fig. 11: Sof-Lex™ Diamond Polishing Spiral. The diamond polishing spiral (pink) contains diamond particles to create a smooth, high gloss polish.

To learn more about Sof-Lex™ Diamond Polishing System please visit www.3M.com/dental

Dr. Zafiriadis has received honoraria from 3M.
3M Oral Care

Takes less time, so you have more time.

There are things in life you don’t want to miss. And the more complicated a procedure is, the greater chance there is for something to go wrong and disrupt your day. That’s why 3M Oral Care has simplified posterior restorations … the most frequently performed direct restoration. By using Filtek™ Bulk Fill Posterior Restorative with three other innovative products, you’ll move through posterior restorations with speed and simplicity. See how our Posterior Restorative Procedure can help keep you on schedule … because we know your time outside of work matters.

www.3MGlobal.com/espe
Celtra® Press – Makes the difference

The new generation of high strength glass-ceramic, zirconia-reinforced lithium silicate (ZLS), is now available in a pressable version

By Dentsply Sirona

Celtra® Press is the new pressable, zirconia-reinforced lithium silicate as well as its veneering porcelain Celtra® Ceram and Celtra® Press Investment is available now.

Celtra® Press, the new pressable, zirconia-reinforced lithium silicate as well as its veneering porcelain Celtra® Ceram and Celtra® Press Investment is available now. Thanks to this combination of high translucency and opalescence, Celtra® Press exhibits an amazingly natural chameleon effect which allows restorations to blend into the natural dentition extremely well. Despite the high strength of Celtra® Press, a great deal of attention was paid to ensure an exact match to the Vita® shade system for excellent shade accuracy and reproduction. The HT, MT and LT translucency shades are closely matched and permits users to reliably reproduce the desired degree of translucency.

The HT shade provides a natural appearance with a high degree of translucency and opalescence. The MT shade offers a more opaque appearance with a high degree of translucency. The LT shade is the most opaque shade with minimal translucency.

Celtra® Press Investment is available now. It ensures correct handling and protects the laboratory. The Interdent Comprehensive CAD/CAM system also includes production of dies and mills for CAD/CAM. These have been provided for many years and the satisfaction of customers is very high.

By Interdent

With almost 40 years of experience, a vision to produce quality products and an environment in which the user plays the decisive role, Interdent this time presents CAD/CAM technology, which offers unlimited possibilities.

Interdent’s world of CAD/CAM technology

By Interdent

With almost 40 years of experience, a vision to produce quality products and an environment in which the user plays the decisive role, Interdent this time presents CAD/CAM technology, which offers unlimited possibilities.

The company’s vision has always been to keep track of new trends in dental care. CAD/CAM technology has been on the market for over 20 years; however, despite its initial “boom”, it developed rather slowly. At the beginning, it was based on processing mono-nano ceramic dental restorations, but there were problems concerning precision, speed and the choice of material available at the time. Today, the precision of gingival fit is already extremely fine, although differences remain between the systems. With adequate materials available, it is also possible to mill larger glass-ceramics segment. The 10 percent zirconium oxide (already dissolved in the glass matrix and the power firing (which in the case of monolithic restorations, forms part of the stann/oxide glass), provides this exceptionally high strength. Owing to the good surface texture, intraoral polishing is possible.

In addition to its high strength, Celtra® Press creates unmatched aesthetics. The high glass content and fine crystalline structure provides outstanding light-optical properties, users can work quickly and reliably.

Every new technology takes time to perfect and find its way. Few years ago, Interdent paved the way for the CC POWER, CC COSMO+, CC COSMO/STAR, CC TRENDY and CC CHIC milling units, which will be available to users of various profiles.

The needs of dental technicians across the world differ greatly and primarily depend on the existing capacities and development of a dental laboratory. The needs of a laboratory employing 200 people differ greatly from the needs of a laboratory employing 2 people.

In the last few years we have also added smaller units like CC COSMO/STAR, CC TRENDY and CC CHIC to our product range which differ from each other in the way they mill (vert-dry). This allows dental technicians to mill all materials or only the ones needed.

Celtra® Press, the new pressable, zirconia-reinforced lithium silicate as well as its veneering porcelain Celtra Ceram and Celtra Press Investment is available now. Thanks to this combination of high translucency and opalescence, Celtra® Press exhibits an amazingly natural chameleon effect which allows restorations to blend into the natural dentition extremely well.

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For more information please contact your local Dentsply Sirona representative, or for background details on the press version of zirconia-reinforced lithium silicate please visit www.celtra-dentsplysirona.com

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- Power of Touch

Find out more on www.fonadental.com
Aquamarine – A new level of cutting efficiency

By FONA Dental

Introducing Aquamarine by FONA, the diode laser which allows you to work with high precision and efficiency. Thanks to its 445nm wavelength, with higher absorption in haemoglobin, cutting is quicker and requires much less power. The result is faster treatment with minimised thermal damage and increased efficiency. Soft tissue surgery is more exact and inflammation less probable thanks to the haemostasis effect of Aquamarine.

Aquamarine can be used for a variety of treatments in soft tissue surgery, periodontology, endodontics and haemostasis. In addition, it can be used for single tooth whitening and as treatment option for a variety of indications. The built-in battery provides a mobile treatment solution for more than 1h of interrupted use.

High response touchscreen allows full overview of options and settings in 23 different languages. Aquamarine has pre-programmed range of treatments and the option to store up to 12 user settings for 2 separate users.

Sterile EndoTips and UniTips are ready to use out of the package without need for cutting or sterilization. The user can adjust the treatment angle by bending and turning the tip in the handpiece interface. ActiveTip is an optional solution for whitening and other activation treatments.

The diode laser operates at a wavelength absorbed by the soft tissue more efficiently, resulting in more precise cutting and faster healing. Inflammation is less probable thanks to the haemostasis effect.

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Cervitec F survey: Results point to a well-liked product

By Ivoclar Vivadent

SCHAAN, Liechtenstein: In a survey recently conducted by Ivoclar Vivadent on its new protective varnish, Cervitec F, respondents commented favourably on its aesthetics, range of applications, delivery form, fluoride and chlorhexidine concentrations, and taste. Overall, the dentists reported that the significant advantage of the combination product is that it saves time.

The survey invited dental professionals to rate the properties of the varnish, which was launched in all European markets in September 2016 and is now available in Australia and New Zealand. “Their opinion is important to us,” a representative of Ivoclar told Dental Tribune Online. A total of 279 dentists tested and commented on Cervitec F.

According to Ivoclar, more than 80 per cent of the survey participants were generally satisfied or very satisfied with the results of the varnish system, reporting that they would recommend using the product after professional teeth cleaning. Over half of the surveyed dentists also said that they would recommend using the product during orthodontic treatment for high-risk patients or patients with motor impairments.

In addition, respondents indicated that they use Cervitec F for patients with root caries, implants or erupting teeth.

Cervitec F differs owing to its innovative formulation, merging 1,400 ppm fluoride, chlorhexidine and cetylpyridinium chloride, according to the company. This means that fluoride application and bacterial control can now be achieved in one working step, the representative explained.

By Shofu

SHOFU BLOCK HC and SHOFU DISK HC CAD/CAM hybrid ceramic restorative material is created for diverse patient-specific digital fabrications ranging from inlays, onlays, overlays, laminate veneers, anterior and posterior crown as well as implant supported prostheses and minimally invasive restorations. Homogeneous dispersion of novel porous micro-ceramic fillers in a resilient matrix imparts superior mechanical properties with exceptional durability and shock resistant ability. Shofu Disk and Block HC are designed for fast and precise (dry or wet) milling into highly aesthetic, durable and shock resistant restorations that exhibit exceptional marginal adaptation and strong bond to natural tooth structure.

A class above in quality, SHOFU HC CAD / CAM restorative offers the unique flexibility of the in-office (SHOFU BLOCK HC) and in-lab (SHOFU DISK HC) versions, enabling you to select exactly what you need for your practice. Created through a rigorous manufacturing process, it is easy to polish to a stain resistant, naturally long lasting lustre and allows intra-oral adjustment to be made to fine tune the restoration for the highest level of patient comfort and satisfaction.

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<td>The C-Silicone with A-Silicone qualities</td>
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ANALOG OR DIGITAL

7 days dimension stability -
Surface active -
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High flexural strength – resistant restorations -
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