3M™ RelyX™ Ultimate Adhesive Resin Cement – Posterior Crown

A case study by Dr. Carlos Eduardo Sabrosa, DDS, MSD, DScD featuring 3M™ RelyX™ Ultimate Adhesive Resin Cement.

Fig. 1: Initial Situation with a molar tooth in need of endodontic treatment and subsequent crown placement.

Fig. 2: Tooth preparation after post placement and core build up with a low shrink composite. Retraction in place. Impression with polyether impression materials.

Fig. 3: Temporization with 3M™ Protemp™ for temporization materials.

Fig. 4: Fabrication of lithium disilicate crown (IPS e.max® CAD).

Fig. 5: Tooth preparation after removal of the temporary restoration and mechanical cleaning of the tooth (e.g. pumice paste). Note the healthy gingiva.

Fig. 6: Tooth preparation after rubber dam placement for isolation.

Fig. 7: Apply 3M™ Single Bond Universal Adhesive to the bonding surface rubbing it in for 20 seconds. Air thin with oil-free air for 5 seconds until the solvent is evaporated and no more ripples are observed. Avoid pooling.

Fig. 8: Gently air thin adhesive with oil-free air for five seconds until the solvent is evaporated and no more ripples are observed.

Fig. 9: Etch the crown with hydrofluoric acid after try in and rinse with water. Air dry with oil-free air.

Fig. 10: Apply 3M™ Single Bond Universal Adhesive to the bonding surface rubbing it in for 20 seconds. Air thin with oil-free air for 5 seconds until the solvent is evaporated and no more ripples are observed. Avoid pooling.

Fig. 11: Dispense 3M™ RelyX™ Ultimate Adhesive Resin Cement directly into the crown. Firmly seat the crown under finger pressure.

Fig. 12: Tack cure for 1-2 seconds (!) Tip: Do not exceed recommended tack cure time, otherwise clean-up will be difficult. For a controlled time, use 3M™ Elipar™ S10 LED Curing Light or 3M™ Elipar™ DeepCure-S LED Curing Light tack curing function.

Fig. 13: Remove excess cement with a scaler. (!) Tip: Hold the crown in place.

Fig. 14: Light cure for 20 seconds per surface. Finish and polish as needed.

Fig. 15: Immediate final clinical situation.

Fig. 16: Beautifully healed gingiva after three months.

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3M Oral Care at AEEDC, Dubai, 2018

By 3M

On 6-8th of February 3M Oral Care took part in AEEDC 2018 and welcomed visitors from different countries at the booth to share the most up-to-date scientific information and 3M procedure solutions for dental and orthodontic professionals.

Several Procedure Areas dedicated to Dental and Ortho products were designed to demonstrate the most unique features of 3M products to the visitors.

The Direct Procedure area was equipped with MARC™ patient simulator allowing to provide the real-time analytical feedback for 3M™ Elipar™ DeepCure S curing light performance with the combination of Filtek™ Z250 XT Universal nanocomposite or Filtek™ Bulk Fill Posterior restorative. The Indirect Procedure area was dedicated to 3M dental ceramics which dental professionals around the world have relied on for nearly 50 years. And as a visualization of the outstanding performance, 3M™ RelyX™ U200 Self-Adhesive Resin Cement, the world’s most clinically proven self-adhesive resin cement, was selected to demonstrate the bond strength to zirconia using special device with the weight exceeding 20 kg – with no failure in 3 consecutive days!

In the Orthodontic procedure area Clarity™ Advanced ceramic brackets, Victory™ series metal brackets complemented with APC™ Flash-Free adhesive coated appliance solutions, which altogether allow to grow orthodontic practice with esthetics and efficiency, were demonstrated. In the Educational Area doctors could test various dental and orthodontic products and during the live product demonstrations, which were carried by 3M Scientific Affairs and Educational Manager Dr. Rasha Ahmed, they had chance to learn more about the peculiarities of cementation, impressioning and direct procedures.

And at the Interactive photo shooting area visitors enjoyed taking live photos which were instantly shared via email with the participants.

For more details please contact 3M Gulf at www.3MGulf.com/espe

Dr. Carlos Eduardo Sabrosa, Brazil

Dr. Sabrosa is an Associate Professor at the State University of Rio de Janeiro Dental School. He received his DDS in 1992 from the State University of Rio de Janeiro Dental School and the Clinical Advanced Graduate Studies (CAGS) in Prosthodontics from Boston University Goldman School of Dental Medicine in 1996. He earned the Steven Gordon Research/Clinical Award in 1995 and 1996 and the Johnman Research Grant Award in 1993 from the American College of Prosthodontics. Dr. Sabrosa also received his MSD and PhD in Prosthodontics/ Biomaterials from Boston University Goldman School of Dental Medicine in 1997 and 1999 consecutively. He has a private practice, focused in Oral Rehabilitation and Implantology, in Leblon, Rio de Janeiro, Brazil.
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Single visit dentistry: Solving dentists’ needs

By Dentply Sinora

Successful dentists are business thinkers and doers. They invest to achieve their treatment goal in the best way possible, thereby also increasing the cost effectiveness of their practice. They also meet patients’ needs using modern treatment methods and, in doing so, secure their competitiveness. Many of these dentists rely on CEREC.

We decided to ask four dentists what is most important to them in daily practice, so as to find out how CEREC can aid them and become the perfect partner for clinical success.

Cost-Effective Work: The Need

It’s important to me that the practice is successful in the long term. Success today does not guarantee success tomorrow. I am aware that I have to make investments and safeguard the capacity of my practice and my practice lab. In this regard, I want to be convinced that I am using future-proof technologies.

Modern dentistry requires a practice with modern equipment – but it has to make sense financially. For all our passion for the job and the desire to continue improving the treatments we give our patients, purchasing modern equipment for the practice and the associated practice laboratory is an investment that has to pay for itself and yield a profit.

CEREC Solving The Need

- Single-visit dentistry is valuable to 50% of patients are prepared to pay more; two-thirds would consider traveling further, and another two-thirds of patients would even change their dentist. 85% of patients want single-visit dentistry. With CEREC, you meet this need.
- You have full quality control of the whole process, from scanning to completed restoration leading to clinically reliable results and no expensive surprises.

CEREC increases your profits as you manufacture in house.
- CEREC allows you to expand your range of indications: restorations, implantology, and orthodontics – equipping you for the future.

A Modern Practice: The Need

Patients want to know they are being treated with modern methods. Patients react positively when they sense that their dentist is moving with the times, especially in this digital age.

The design of a practice creates more than just an initial impression. Patients feel at ease in a stylish environment and are much more open to treatment proposals, particularly of aesthetic problems.

My patients should be able to trust me in every respect. Trust is created when they can be sure that my manual skills are combined with the latest technology.

CEREC Solving The Need

- CEREC represents modern dentistry. CEREC treatment will more meet your patients’ expectations of modern treatment and increases trust.
- Set yourself apart from the competition with CEREC. Other dentists in your area also carry out good work. CEREC and the associated patient benefits as well as the other options give it its unique selling point.
- With CEREC, you will be considered innovative, modern, and advanced dentist.

Focus On The Patient: The Need

Patients should enjoy going to the dentist. These days it is rare that my patients only come to me when they are in pain. They come for check-ups, prophylaxis appointments, and for aesthetic problems.

My patients should feel at ease – this is important to me in my practice. In order to make the treatment as comfortable as possible for my patients, I invest in modern practice fittings: comfortable chairs, soothing music during the treatment or in the waiting room, gentle anaesthesia, and treatment methods that minimize stress for our patients.

CEREC Solving The Need

- Give your patients a more comfortable treatment with CEREC. The digital impressions replace the uncomfortable tray impression, annoying temporaries can be avoided, and your patient is given aesthetic only once.
- With CEREC, you can optimally integrate your patients into the treatment. Digital planning of the restoration allows the patient to see what will be done, thereby creating transparency. The patient can also watch you grind/mill the planned restoration.

Enjoy The Craftsmanship: The Need

Work with skill in a small space. Working with manual dentistry in a space as small as the oral cavity is something of an art. It is very challenging but exciting and I enjoy it.

Further develop your manual dexterity: Dentistry is changing – new materials, new methods, changing patient needs. Continuously exploring and improving my own skills keeps my job exciting.

I value the diversity in my job. Every patient is different and presents the dentist with different tasks. It is good to know if you can give a suitable (treatment) answer to almost every question. It is up to you to keep this up by continuously adding to your treatment spectrum.

CEREC Solving The Need

- With CEREC, you can increase the craftsmanship of your work, making it all the more enjoyable. This enjoyment carries over to your practice and your patients.
- Showcase your own skills in prosthetics. With CEREC, you are responsible for the quality of your results.
- Expand the range of indications with CEREC, for example, in implantology. With CEREC you can scan, design, mill, and place implants all in a single visit. You can map the entire implantology process in your practice and place implants on your own.

References
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The success story continues.

By Kulzer

More gain, less pain
One of the most impairing effects on your patients’ daily well-being is hyper-sensitivity. Sweet or sour dishes, hot or cold morsels – the acute pain is unpleasant and rather blocked out.

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Now, based on the well-known GLUMA Desensitizer, we have invented GLUMA Desensitizer PowerGel for you. It allows greater control and accuracy during application. Its unique green colour makes it easy to apply, easy to detect and easy to rinse clean.

GLUMA Desensitizer – Two styles, one solution against hypersensitivity.

By Shofu

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