Ketac™ Universal Glass Ionomer Restorative Clinical Case

By Dr. Gunnar Reich, Germany

Fig. 1: Initial situation: upper first premolar with insufficient disto-occlusal restoration

Fig. 2: Cavity preparation after removal of the defective restoration

Fig. 3: Placement of sectional matrix system

Fig. 4: Bulk placement of Ketac™ Universal Glass Ionomer Restorative into cavity

Fig. 5: Shaping of occlusal surface with the instrument

Fig. 6: Final Ketac™ Universal restoration after polishing with Sof-Lex™ Spiral Polishing Wheels

Fig. 8: Final Ketac™ Universal restoration after polishing with Sof-Lex™ Spiral Polishing Wheels

About the Author

Dr. Gunnar Reich, Munich, Germany
Owner of Dr. Gunnar Reich Private Dental Practice specialized in the following focus areas: aesthetic restoration and reconstruction with plastic, filling material in anterior and posterior regions, complex dental prostheses and implantology.

Author of several publications in Germany and abroad.

Ketac™ Universal Restorative. Dentist satisfaction ratings

By 3M

Ketac Universal restorative is designed to save steps and time... therefore the handling must also support a fast, easy procedure. In an application test 3,510 fillings were placed using Ketac™ Universal Glass Ionomer restorative. Dentists were pleased with overall handling, ease of placement and cavity adaptation.

References

1. Please refer to the Technical Data Sheet.

3M Announces New 3M Oral Care Organization

By 3M

Consistent with 3M's strategy to increase customer relevance, the company has announced the formation of 3M Oral Care, combining the former 3M ESPE Dental and 3M Unitek Orthodontics into a single new division, led by Vice President & General Manager James D. Ingebrand.

"Building on our strong brands and technologies, 3M Oral Care will leverage our fundamental strengths in science and innovation to deliver a complete suite of solutions across the continuum of oral care for dentists and orthodontists, to improve patient outcomes," said Joaquin Delgado, Executive Vice President, 3M Health Care Business Group. "We are committed to further building on our more than half a century of innovation in the oral health industry," Ingebrand said. "This will accelerate our momentum as we continue to deliver quality innovative solutions for doctors and their patients."

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3M was recognized recently as the “Most Innovative Dental Company” for the 10th consecutive year, by The Anaheim Group (publisher of Dental Fax Weekly), for continuing to bring exciting new ideas to dentistry. 3M’s wide range of dental products and supplies includes restorative, crown and bridge, mini-dental implants, preventive, infection control and others. In addition, 3M helps integrate advanced digital technology and materials science through CAD/CAM dentistry and digital impressions. 3M has brought a number of amazing firsts to the dental industry, including the first-ever tooth-colored restorative material, the first self-adhesive universal resin cement, the first nano ionomer, the first malleable, preformed temporary crown and the first automated mixing of impression materials.

3M also is known as a leader in orthodontic solutions. Recent innovations include: Clarity™ Advanced Ceramic Brackets which combine brilliant aesthetics with consistent strength and small bracket design for enhanced patient comfort; APC™ Flash-Free Adhesive which allows doctors to move directly from bracket placement to bracket cure without removing adhesive flash—no clean up; and Victory Series™ Superior Fit Buccal Tubes to hold arch wires to molars, designed with a large compound contour base for superior fit, exclusive “contoured funnel” for easy wire insertion and low profile and flush-mount hook for patient comfort; and “invisible” 3M™ Invisalign® hidden braces, which are placed on the lingual side of the teeth for highly aesthetic treatment.
Now, get them out of the chair faster!

Pediatric. Geriatric. And busy teens in between. Treating patients who can’t sit still long feels like a race against the clock—and every second counts. That’s why 3M ESPE Dental developed Ketac™ Universal Aplicap™ Glass Ionomer Restorative.

• One-step placement—no conditioning, coating or light-curing steps to slow the procedure down
• Stress-bearing properties enable extended indications
• Continuous fluoride release over 12 months

Ketac Universal restorative ... because the most caries-prone patients are also the most restless.

For more information please visit: www.3MGulf.com/espe
Self-curing Calcium Hydroxide Paste

- For indirect pulp capping and linings under dental filling materials
- Sufficient working time in combination with a short setting time in the mouth
- Bacteriostatic
- Antimicrobic effect due to a high pH-value
- Contains 26% calcium hydroxide
- Preservation of vitality due to pulp recovering

Glass Ionomer Filling Cement

- Excellent biocompatibility due to low acidity
- High compressive strength
- Stable and abrasion resistant
- Tooth-like thermal expansion
- No temperature rise during setting
- Enamel-like translucency and excellent radiopacity

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Qualident Dental Laboratory Introduces JUVORA – The Next Generation Dental Material

By Qualident

JUVORA™, the first approved high performance polymer material that allows the CAD/CAM fabrication of a removable denture framework from a non-metal material – provides a more efficient process for dental professionals and an improved patient experience. Intended for use in telescope attachments, precision attachments and implant supported superstructures, the JUVORA Dental Material uses the purest biomaterial sourced from the market leading provider of PEEK-OPTIMA biomaterials, Invibio® Biomaterial Solutions (that has more than a decade of experience and proven success in over 4 million implanted devices globally.)

Patient benefits

Prosthetic frameworks made from JUVORA™ provide patients with premium solutions:

- Strong and lightweight to improve patient comfort
- Digitally designed to match patient’s anatomy
- Elastic modulus similar to bone – allowing for increased flexibility in both denture design and patient use.
- Shock absorbent during chewing
- High strength to weight ratio
- Resistance to wear, abrasion and corrosion – less damage to adjacent natural teeth
- Metal-free denture framework
- Taste neutral (no metal taste)
- Reduced thermal or electrical conductivity when compared to metal

Indications

1) Implant-supported superstructures
   Our high-performance, biocompatible JUVORA allows a strong, yet lightweight, framework for cantilever designs (e.g. all-in-four) and is clinically proven for implant applications.

2) Telescope attachments: Telescope attachments manufactured from a JUVORA™ provide improved friction, accuracy and better retention of zirconia primary crowns and offer less intrusive telescope transversal connectors. The CAD/CAM digital design process results in a precise denture framework that is more comfortable and better fitting than alternative materials.

3) Precision attachments
   Denture attachments made from a JUVORA™ are more comfortable and better fitting than those made from other materials. The JUVORA™ is made from a revolutionary PEEK-OPTIMA® denture base material that is clinically proven for implant applications and noted to improve the retention of the dental structure.

4) Intra-oral, panoramic and 3-D images. Thus, data from previous and current imaging technologies can be accessed and easily displayed and managed. SIDEXIS 4 acts as a central hub for the integration of diagnostic image data of any kind that the practice team has not only prepared during the course of the treatment, but also received from other dentists for long-term patients. The dentist can display a full overview of the patient’s treatment history in a timeline. Using a digital lightbox, the dentist can easily make cross-comparisons between the image data and recognise subtle changes in the course of treatment.

The numerous interfaces make it possible to connect to all digital systems in the dental practice. The imaging software can also be extended with plug-ins and applications to enable perfect coordination with integrated digital processes for simultaneous surgical and prosthetic planning of implants, and for orthodontic applications.

According to Sirona, SIDEXIS 4 has also been well received by the expert community. “We have received feedback from many users that the entire workflow in the practice has improved with the software upgrade and that diagnosis, planning and treatment are simpler, faster and safer,” remarked Dr Nadia Amor, Senior Product Manager of Imaging Software at Sirona. Sirona has already won two Red Dot Awards this year for its innovative ORTHOPHOS® SL radiographic solution and inLab MC X5 dental device.

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JUVORA material offers significant benefits for patients as both the design and material properties, enabling the manufacture of precise, lightweight and comfortable non-metal removable dentures.

“Iusr recognises Best of the Best”