Create ‘brilliant’ restorations with COLTENE’s BRILLIANT EverGlow Universal Composite

By COLTENE Staff

BRILLIANT EverGlow is a universal submicron hybrid composite distinguished by easy polishability, gloss retention, ideal handling and exceptional blending properties, according to COLTENE, the company behind the product.

BRILLIANT EverGlow’s filler technology is engineered to provide an ideal combination of long-lasting esthetics, handling convenience and mechanical strength. Submicron glass fillers support excellent polishability and gloss retention, according to the company. Additional prepolymerized fillers, which have the same composition as the uncured composite, lower volume shrinkage and improve the sculpting properties of the paste.

BRILLIANT EverGlow shows an exceptionally smooth surface and satin shine directly after placing the filling, according to the company. This simplifies the task of polishing, allowing highly esthetic restorations to be performed in minimal time — especially when used with COLTENE’s ALPEN ShapeGuard Composite Plus polishers.

Visit COLTENE at booth No. 1237 to try BRILLIANT EverGlow and see why Dental Product Shopper recently evaluated BRILLIANT EverGlow as a “Best Product” in the composites category. You may also visit everglow.coltene.com to request a free sample.

Here in Atlanta

Visit COLTENE at booth No. 1237 to try BRILLIANT EverGlow. You may also visit everglow.coltene.com to request a free sample.
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*According to "Dosimetry of Orthodontic Diagnostic FOVs Using Low Dose CBCT Protocol" by JB Ludlow and J Kolviito. For a copy of this study, please contact Planmeca USA."
Combining equipment, ergonomics to enhance the patient experience

By Midmark Staff

Whether assessing existing operatories or designing a standardized blueprint for a new dental practice, there are a few key factors dental professionals should consider to help ensure an effective dental space. Creating a successful practice is not only about having the right equipment, it’s also about knowing how to use it in the right way.

Having the right type of equipment within the clinical environment can increase the level of comfort and safety and enhance the delivery of care. Necessary equipment for all operatories includes the overhead lighting and patient chair, which are both vital instruments used in every patient visit. By gaining a better understanding of this equipment, dental professionals will uncover opportunities to improve efficiency and, ultimately, patient care.

Factors to help ensure an effective dental space that is conducive to the delivery of high-quality care include:

Operatory lighting
Overhead lighting plays a major role in ensuring quality dentistry. It is important to have overhead lighting in the operatory that provides both the dentist and assistant with an even distribution of light in the oral cavity to help eliminate shadows, match shades, identify details and diagnose tissue.

Proper lighting provides the clinician with not only better visibility into the oral cavity but also has the ability to help reduce eye strain on the part of the clinician, Midmark asserts. Eye strain may lead to reduced productivity and other eye issues later in the clinician’s career.

Many of today’s dental lights, such as the Midmark Dental LED Operatory Light, feature high-powered LEDs that remain safe and cool to the touch compared with halogen lights. With its advanced design, the Midmark Light provides the ultimate experience with less heat generation and a longer lifespan, according to the company. Color temperature on halogen lights tend to vary when adjusting the intensity, while LEDs hold a consistent color temperature.

Patient chair
Patient comfort is one of the most important factors in creating an ideal patient experience. The chair is where a patient will spend most — if not all — of his or her time during an appointment. No matter how long a patient spends reclined, chairs must be designed to offer premium patient support and comfort. Dental chair designs have significantly improved in recent years, focusing on the comfort level of patients, dentists and clinicians.

The ideal chair for any dental practice looking to enhance the level of care is one that is designed to synchronize, or move, with the human body and reduce patient anxiety. For instance, Midmark’s Elevance® Dental Chair eliminates the need for the patient to readjust by offering a sculpted backrest to accurately position the patient’s neck and integrated armrests to support the patient’s upper body. It even features a built-in heat and massage system to further relax the patient during the exam.

Midmark dental products
With the help of Midmark’s integrated portfolio of dental equipment, dental professionals can combine the right equipment with the appropriate ergonomic principles to further enhance the patient experience, according to the company. Dentists who can improve the overall effectiveness of their operatories will be in a better position to deliver efficient, high-quality patient care.

In order to ensure comfort for the clinician, there are two important elements need to be considered — the ergonomic positioning of the operator and the positioning of the patient in relation to the operator.

When choosing a chair, ensure there is enough access under the chair to work comfortably in normal operating positions. The design of the chair back is also key to proper clinician positioning and patient access. Rotating the chair allows further flexibility to help ensure the clinician has good visibility in the 11 and 12 o’clock positions while still maintaining access to cabinets and instruments. Newer chairs have electronic rotation systems that make it easy to rotate the chair instead of having to struggle with the older manual rotation release levers.

Considering the amount of hours clinicians spend working within the patient’s oral cavity, design of the dental chair should expand the range of travel in order to maintain optimal access. For example, the Elevance Dental Chair features a unique Cantilever Forward® design, allowing for unsurpassed range of travel and greater flexibility whether seated or standing, according to the company.

The chair’s seat height can be lowered to 15 inches and extended to 34 inches, allowing clinicians to bring the patient to the desired height needed for a proper exam. Optimal access is also crucial for maintaining an ergonomically correct working posture and maximizing performance, thus reducing the strain on the backs, shoulders, arms and wrists of the practitioner.

To check out the Midmark Dental LED Operatory, the Elevance Dental Chair and other Midmark products, stop by the booth, No. 919.

*Midmark Dental LED Operatory Light. (Photos/Provided by Midmark)*

*Midmark’s Elevance Dental Chair.*
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REVEAL HD Bulk: When you need speed but don’t want to sacrifice strength or esthetics

By Dr. Joseph Kim

When it comes to composite restorations, dentists are often asked to sacrifice speed for quality or quality for speed. This has been especially true when it comes to bulk fill composites, which brought the promise of larger increment sizes but required specialized equipment or were otherwise difficult to handle.

Now, clinicians can have a composite that easily adapts to the tooth and can be used in a true bulk fill technique. REVEAL® HD Bulk is BISCO’s new bulk fill light-activated restorative composite, optimized for simpler and faster posterior restorations. REVEAL HD Bulk combines appropriate handling, depth of cure and polishability, allowing clinicians to provide patients with functional and esthetic composites while saving valuable chair time.

REVEAL HD Bulk allows for layering increments up to 5 mm because of its predictable depth of cure. This feature is accompanied by low volumetric shrinkage, high flexural strength and excellent radiopacity, resulting in long-lasting, durable restorations. While REVEAL HD Bulk is indicated for all direct and indirect restorations, clinicians will appreciate the significant time savings that bulk filling provides, especially in posterior teeth.

Like other restorative composites, it is important to maintain adequate isolation to prevent contamination of the tooth from saliva and blood. When indicated, use of a sectional matrix system with significant separating force will ensure excellent adaptation to the proximal margins, as well as minimize interproximal food impaction.

After excellent isolation has been achieved, a universal bonding agent, such as ALL BOND UNIVERSAL® is applied to all prepared surfaces according to manufacturer instructions. When possible, it is ideal to selectively etch the enamel surfaces where the composite is intended prior to application of the bonding agent, resulting in minimal long-term marginal leakage and dentinal sensitivity issues.

Depending on operator preference, a flowable composite resin may be used in the deepest and least accessible areas of the preparation, including undercuts and the cavosurface margins of proximal boxes. The appropriate shade of REVEAL HD Bulk can be placed in a single increment for most Class 1, 2 and 3 restorations. For preparations that include areas that are deeper than 5 mm, it is advisable to build the restoration in appropriately sized increments.

Keep in mind that because of its unique chemistry, care should be taken to avoid unnecessary exposure to light, including from ambient and overhead sources, in order to avoid premature hardening of the material. Finally, the restoration can be finished with fine diamonds and finishing carbides, followed by finishing points. It is worth noting that since REVEAL HD Bulk’s viscosity has been tuned for bulk fill applications, it is preferable to limit occlusal carving and shaping to primary anatomy prior to curing. After curing, greater detail may be added with finishing burs, as needed.

Alternatively, when darker or opalescent restorative composite shades are required, REVEAL HD Bulk can be placed and cured short of the occlusal cavosurface margins. The final layer can be a traditional restorative composite in an ideal shade and opacity. Because REVEAL HD Bulk is universally compatible, it will serve as an excellent base under all light-activated restorative composites.

REVEAL HD Bulk has been specifically designed to address the needs of clinicians who require the speed of a bulk fill restorative composite without sacrificing strength and ignoring esthetics. It is currently available in the most commonly used shades, from A3 to B1, in both syringe and unit dose form.

*Photo/Provided by BISCO*
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There has been a disruption in the capture of dental images, but remain CALM. Planmeca has the solution. The No. 1 disruptor of image quality for dentists is patient movement. During a dentist appointment, a doctor may need to take several 3-D X-ray scans to get a single image of diagnostic quality. Oftentimes, a child, an individual with special needs or an elderly patient are challenged to remain still. This may result in the patient being X-rayed multiple times, which adds more time to the appointment and frustration for patient and doctor, not to mention the concern of additional exposure to radiation.

We created Planmeca CALM™ (Correction Algorithm for Latent Movement), a proprietary Planmeca algorithm, to address doctors’ concerns over patient movement during a 3-D scan. With Planmeca CALM, our CBCTs can analyze and compensate for the slight movement that can occur during a scan to provide improved diagnostic quality images. The addition of this feature (available for every new Planmeca ProMax® 3-D imaging system) will streamline the imaging process, minimizing retakes while improving diagnosis. The important benefit to patients: fewer retakes equals less radiation while achieving better diagnostic images.

“Dentists evaluating CBCT machines for purchase should focus critically on each manufacturer’s solutions for stabilizing the patient in the machine,” said Dr. Dale A. Miles, DDS, MS (Inside Dentistry, May 2017). Planmeca CALM addresses this doctor requirement as it can compensate for slight movement to produce diagnostic quality images. Planmeca CALM is available on new Planmeca ProMax 3D imaging systems or as an upgrade for existing units — check with your authorized Planmeca dealer. Our advanced imaging systems provide detailed and accurate 3-D scans of patients — children and adults.

Technology is transforming dentistry. Our Planmeca CALM imaging algorithm is the latest example of dental innovation and how we improve patient safety/comfort and a clinician’s workflow.
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Choose the ‘WireLess’ light that’s best for you

By Designs for Vision Staff

Designs for Vision’s LED DayLite® WireLess™ Mini and LED DayLite WireLess headlights free you from being tethered to a battery pack. The simple modular designs uncouple the headlights from a specific frame or single pair of loupes.

Prior technology married a cordless light to one pair of loupes via a cumbersome integration of the batteries and electronics into the frame. The LED DayLite WireLess headlights are independent of any frame/loupes.

The patent-pending design of the LED DayLite Wireless headlights is a new concept; a self-contained headlight that can integrate with various platforms, including your existing loupes, safety eyewear, lightweight headbands and future loupes or eyewear purchases.

Best of all, the LED DayLite WireLess headlights can be easily transferred from one platform to another, expanding your WireLess illumination possibilities across your eyewear options.

The LED DayLite WireLess Mini weighs less than 1 ounce and, when attached to a pair of loupes, the combined weight is half as much as integrated cordless lights/loupes.

The LED DayLite WireLess produces more than 40,000 lux at high intensity and 27,000 lux at medium intensity, while the intensity of the LED DayLite WireLess Mini is 27,000 lux.

The spot size of each of the LED DayLite WireLess headlights will illuminate the entire oral cavity.

Here in Atlanta

To see the LED DayLite WireLess Mini and LED DayLite WireLess headlights, stop by the Designs for Vision booth, No. 1001, or contact the company to arrange a visit in your office at (800) 345-4009 or info@dvimail.com.

The LED DayLite WireLess is powered by a compact, rechargeable lithium-ion power pod. The WireLess Mini is powered by specialty rechargeable lithium-ion cylindrical cells. Both LED DayLite WireLess headlights come complete with three batteries/battery pods. The charging cradle allows you to independently recharge two batteries/battery pods at the same time and shows the progress of each charge cycle.
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By Avid Dental Products

Avid Dental Products® is excited to launch its newest product, the Avid Premier™ Hygiene Handpiece.

The Avid Premier was designed with proper sterilization procedures in mind. Industry standards are ever changing. The need to quickly access a sterilized handpiece has become a priority.

The Avid Premier comes standard with four aluminum sleeves, providing hygienists with an uninterrupted workflow. The seamless transition between sleeves allows for a faster, cost-effective procedure. Hygienists will spend more time polishing and less time sterilizing, according to the company.

The Avid Premier is quiet and lightweight. Hygienists have the option to use a barrier sleeve to cover the rear portion of the motor. Oiling is not necessary with this handpiece. Additional sleeves are available for purchase to last an entire work day.

The Avid Premier is now available at booth No. 330.

In addition to the Avid Premier, the Avid Fit Hygiene Handpiece is a great addition to dental practices focusing on ergonomics. Hygienists are able to polish while keeping their wrists in a truly neutral position. The Avid Fit was launched in 2016, and it was just named “2018 Dental Advisor Top Award — Innovative Design,” receiving a ++++ (87 percent) rating. Recent updates to this product include a sterilizable locking seal.

Avid Dental Products’ product line also includes soft cup, firm cup and mini soft and firm cup disposable prophy angles. The angles work with the Avid Fit Hygiene Handpiece and the Avid Premier to create a true hygiene system, according to the company.

Avid Finish™ Prophy Paste is gluten-free and uses no dye.

Avid Dental Products strives to continually provide the dental industry with superior ergonomic and innovative products while building strong, mutually profitable relationships with customers, the company asserts, adding that its team has extensive knowledge of the dental industry with high-quality products and a strong commitment to customer service. The result, according to the company, is excellent order fulfillment and service for customers.

Established in 2014 and located in Bloomsdale, Mo., Avid Dental Products began when its founder, Chris J. Carron, recognized the need for ergonomic dental products and developed the Avid Fit Hygiene Handpiece and the Avid Fit Disposable Prophy Angles. Carron continues to lead Avid with expertise, motivation and determination.