Ultra-bright light is ultralight in weight

High-def, uniform light with maximum intensity
By Designs for Vision Staff

Designs for Vision is introducing an advanced photonics design that provides uniform light distribution with maximum intensity. The patent-pending headlights optically focus the light from the LED to provide 45 percent more light with uniform distribution.

The new LED DayLite® Micro HD™ uses the new high-definition imaging in an ultralightweight headlight in combination with the new Micro power pack. According to the company, the Micro is the market’s lightest and smallest power pack. The complete unit includes two power packs, and each power pack can run up to 10 hours.

Designs for Vision also has added high-definition imaging to the LED DayLite WireLess Mini HDi, providing a lightweight cordless solution with light intensity comparable to many cored headlights. You can choose high-definition imaging with either a wired or wireless design to meet your preference, and either HDI headlight will illuminate the entire oral cavity.

Designs for Vision’s 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 compact design of the LED DayLite Wireless headlights are independent of any frame/loupes.

Designs for Vision is also featuring the "REALITY five-star-rated" Micro 3.5 EF Scopes, which use an innovative optical design that reduces the size of the prismatic telescope by 50 percent and reduces the weight by 40 percent — while providing an expanded-field, full-oral-cavity view at 3.5x magnification.

Building on an established award-winning design, the newest addition to the Micro Series line is the Micro 4.5EF Scopes, which reduce both the size and weight of the telescopes by 44 percent.

Designs for Vision has expanded into a new 67,500-square-foot location at 4000 Veterans Memorial Highway in Bohemia, N.Y. You can visit www.designsforvision.com/move.htm to check out some photos of the new facility.

You can see the Visible Difference® yourself by visiting the Designs for Vision’s booths, No. 1202 or No. 649, at the 2018 California Dental Association meeting in Anaheim. Or you can visit booth No. 626 at the American Academy of Pediatric Dentistry 2018 annual meeting in Honolulu.

Bulk fill composite easily adjusts to the tooth
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 composites, optimized for simpler and faster posterior restorations.

REVEAL HD Bulk combines appropriate handling, depth of cure and polishability, which enable clinicians to provide patients with functional and aesthetic composites while saving valuable chair time.

REVEAL HD Bulk allows for layering increments up to 5 mm due to 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 cusp/surface margins of proximal boxes. The appropriate shade of REVEAL HD Bulk can be placed in a single increment for most Class 1 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 due to 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 cusp/surface 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.

At the CDA meeting in Anaheim, you can visit BISCO in booth No. 1337 to learn more or visit reveal.bisco.com or call (800) 247-3368.
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* Images courtesy Brian T. Wells, DMD
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Use of soft-tissue lasers in dentistry

The benefits of lasers in dentistry have been discussed for many years. However, not every dentist has made the decision to invest time and money in lasers — which means that many oral health professionals are missing out on the myriad benefits provided by lasers for an expansive list of clinical applications. Lasers afford oral health professionals the opportunity to perform more procedures in less time and with better results than traditional methods. Patients also benefit from laser dentistry, as it is said to facilitate a faster treatment with less overall discomfort. This translates to patient referrals and patients who are more willing to accept future dental treatment recommendations.

One of the greatest benefits of soft-tissue lasers is their ability to provide minimally invasive treatment for both preventive and restorative dental procedures. Some of the many indications for implementation of laser devices in dental settings include: oral surgery, arthroscopy, gastroenterology, general surgery, dermatology and plastic surgery.

Laser devices can be used to cut, ablate, vaporize, sterilize and coagulate tissue within the oral cavity. In dentistry, soft-tissue lasers may be implemented for a wide range of clinical applications, ranging from periodontal to restorative to orthodontic procedural needs. Laser dentistry is the standard of care that all clinicians should feel comfortable offering in their practice.

NV PRO3 Microlaser by DenMat

The DenMat NV PRO3 Microlaser was designed to meet increasing demands for portable soft-tissue lasers. Its feather-light weight (just 19 ounces) and cordless, ergonomic design enhance portability and ease of use.

Features of this device include: lithium-ion battery with over- and undercharge protection, with 30 minutes of continuous operation at 1.2 watts of power; plug-and-play system with 12 preset procedural settings for all peri-odontal, restorative and orthodontic needs; wireless foot pedal; audible notifications; and disposable fiber tips. The soft-tissue diode laser operates between 0.1 and 2.0 watts of power (continuous wave or pulse mode), with a wavelength of 808 nm (± 5 nm).

For more information on the NV PRO3 Microlaser, or to hear more about any of the other products made by DenMat, you can call (800) 433-6628 or visit www.denmat.com.

(Source: DenMat)

Barrier protection critical with dental gloves

While caring for their patients, dental and health care professionals are constantly exposed to bodily fluids that may carry viruses and other infectious agents. It is therefore critical that the gloves these professionals use provide the best possible barrier protection.

Many types of gloves are available today, but it is important to know that not all gloves have the same barrier capability, depending on the type of material used. For example, natural rubber latex gloves have long been acknowledged for their very effective barrier properties, while non-latex gloves, such as vinyl (polyvinyl chloride), have inferior barrier capability as shown by numerous studies.

Quality, safety top priorities

Other synthetic gloves, such as nitrile and polyisoprene, perform much better than vinyl but are more costly, especially polyisoprene gloves. Using gloves with inferior capability could expose both the patient and user to harmful infections.

Malaysia is the world’s largest medical gloves exporter (latex and nitrile). Both quality and users’ safety are of top priority to the nation’s glove industry. To this end, a quality certification program (the Standard Malaysian Glove, or the SMG) has currently been formulated for latex examination gloves.

All SMG-certified gloves must comply with stringent technical specifications to ensure the gloves are high in barrier effectiveness, low in protein and low in allergy risks, in addition to having excellent comfort, fit and durability — qualities that manufacturers of many synthetic gloves are trying to achieve.

Latex gloves are green products, derived from a natural and sustainable resource, and are environmentally friendly. (You can learn more online by visiting www.smgsingleline.biz or www.latexgloves.info)

The use of low-protein, powder-free gloves has been demonstrated by many independent hospital studies to markedly reduce the incidence of latex sensitization and allergic reactions in workplaces.

More important, latex-allergic individuals donning non-latex gloves can now work alongside their coworkers wearing the improved low-protein gloves without any heightened allergy concern. However, for latex-allergic individuals, it is still important they use appropriate non-latex gloves, such as quality nitrile and polyisoprene gloves, which provide them with effective barrier protection.

Extensive array of brand, prices

Selecting the right gloves should be an educated consideration to enhance safety for both patients and users. For decades, gloves made in Malaysia have been synonymous with quality and excellence, and they are widely available in an extensive array of brands, features and prices.

They can be sourced either factory direct (www.mrepc.com/marketplace) or from established dental products distributors in the United States and Canada.

(Source: MREPC)
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Malaysia is the largest source for U.S. imports of natural and synthetic rubber gloves as reported in tariff and trade data by the U.S. Department of Commerce and the U.S. International Trade Commission.

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How to minimize dental anxiety by incentivizing your pediatric patients

By SmileMakers Staff

There’s been a massive amount of research into dental anxiety, with good reason: Dental anxiety keeps thousands of people from visiting the dentist every year. Children are especially susceptible to this anxiety, particularly if they have never been to a dentist before or if they are unsure about the experience.

Incentivizing their visits will help them positively anticipate each trip, particularly if they are facing multiple visits for successive treatments. Here are a few ideas from the pros to help you create a program that fits your practice.

Help patients grade their oral health

A daily oral health quiz helps keep young patients on track for oral care success. It can be as simple as a checklist with questions like: Have you brushed your teeth today? Did you brush twice today? Did you floss today? Have them bring their list in each visit for a special reward. A brushing chart works well for this, and can be customized with your practice name and information so they’ll remember your positive reinforcement daily.

Challenge patients to succeed

There’s nothing a child will remember more than a challenge. The idea is to turn his or her oral health into a game. One tried-and-true method is the 2-2-2 challenge. At its essence, all you’re doing is asking children to see their dentist twice a year and brush twice a day for two minutes each time. Turn it into a challenge by giving them a practice-themed notepad and pencil to record their progress. That will entice them into forming good habits from an early age and keep you top of mind.

Offer tiers of prizes

For every cavity-free visit, or step in the treatment plan, allow the patient to choose a higher tier of prizes. It gives kids something to look forward to and a reason to behave well and take care of their teeth. At their first visit, they might not have been able to get the plush animal, but you can explain that they’ll be able to earn it with good behavior and habits over time.

You don’t need to break the bank for this, and the reward tiers don’t have to grow excessively. The difference between a bracelet and a heart necklace might be all the incentive that they need.

Add to their collection

Limited edition collectibles are an age-old trick used to help people see an increased value in certain items. It works well with children because they usually want the exclusive toys or stickers. The value grows if you have the full set, too.

By using “exclusive” prizes like keychains that come in different designs or stickers that can only be collected at subsequent visits, it gives a positive incentive to children who may need a lot of dental work. Rather than seeing their dental visits as a chore, they have a chance to complete their collection. This will soften the experience for them and give you a chance to build the relationship by showing their progress through their sticker book or lanyard.

If the visits are a series of especially tough treatments, reward their commitment to their oral health with a plush toy and you’ll have a patient for life!

Looking for more ways to incentivize your patients? Visit SmileMakers at Booth 400 at AAPD 2018 in Honolulu or anytime at SmileMakers.com to see the company’s full line of patient incentives and practice supplies.

Technology changing patient education

Technological advancements are perpetual catalysts for changes that continue to transform the way we operate on a daily basis. For progressive practitioners, the constant wave of new technology provides an auspicious opportunity to increase prosperity and experience substantial benefits in other areas.

For decades, dental practitioners have been pigeonholed to tediously repetitive practices such as the monotonous treatment of caries and removal of plaque buildup. Despite this, the prevalence of malocclusion in modern children is approaching 100 percent and this growing incidence is enabling dentists to widen their scope of practice with the prospect of providing biological-based orthodontic treatment for children. Additionally, the recognition of sleep-related breathing disorders in dental patients is increasing, with recent research finding a relationship between the prevalence of malocclusion and dysfunctional breathing.

With this in mind, practitioners looking to diversify their pediatric treatment options in the increasingly competitive market that is modern dentistry should consider the benefits modern technology can offer. The implementation of eLearning tools in American classrooms has produced a generation of students that feels comfortable using screen-based technology for self-directed learning and is appreciative of the low-pressure environment it offers.

Senior Myobrace Educator Jessica Maidman is an advocate for patient education through the use of digital learning tools, and she considers the patient’s first encounter with The Myobrace® System an important stepping stone for ongoing education and compliance. “As an educator, I use our Myobrace apps to deliver information to my patient in a child-friendly manner. It helps them understand the causes of their developmental issues, as well as the need for early intervention and corrective treatment,” Maidman said.

“I have learned that children respond much better to learning from new and interesting technologies rather than an authoritative figure such as a dentist. The results are much more consistent because the information is being delivered the same way each and every time.” Myofunctional Research Co (MRC) provides eLearning software in all major digital platforms, enabling simple implementation for almost any practice.

Visit www.myoresearch.com to find a seminar near you or learn more about the Myobrace Member and Certified Provider programs.

- Reference

(Source: Myofunctional Research)