Waterlase uses simple laser protocols to complete perio and implant procedures

By BIOLASE Staff

The flagship Waterlase system is the iPlus®, an innovative laser system that enables dentists to complete many common dental procedures using minimally invasive laser energy combined with a fine water spray to gently remove hard and soft tissue.

The latest model now incorporates REPAIR Perio and REPAIR Implant, two power laser-based protocols for managing early to moderate periodontitis and peri-implantitis in a general dental setting. Both protocols leverage the gentle removal of diseased tissue and calculus. See the protocols in action in the BIOLASE booth, No. 1638, in the exhibit hall at ADA 2016 – America’s Dental Meeting, Oct. 20-24, in Denver and at the 2016 International Association of Physiologic Aesthetics meeting, Oct. 13–15, in Las Vegas.

For tooth cutting, the WaterLase iPlus helps to eliminate microfractures associated with the traditional dental drill, as well as thermal damage and risks of cross-contamination. The laser’s precision enables minimally invasive treatment with less removal of healthy tooth structure and soft tissues. For soft tissue, the WaterLase iPlus ablates the target tissue layer by layer, which, according to the literature, enables the dental professional to perform oral surgeries with less bleeding, dynamic tissue response and faster healing. WaterLase iPlus can improve efficiency in a practice with a wide range of benefits, including performing many restorative procedures without anesthetic. By eliminating the time required for the onset of anesthetic, the dentist and staff can efficiently move from patient to patient, staying on time and adding to the bottom line. Revenue per-chair, per-day can markedly increase with the WaterLase iPlus.

Also, a WaterLase practice can generate more income per patient-visit. Because anesthetic is not required in most cases, the dentist can address more of a patient’s clinical needs by working in all four quadrants. Also, WaterLase iPlus can offer alternative treatment modalities when traditional protocols are not addressing conditions such as deep periodontal pockets, endodontics and more. Fewer recall appointments means fewer appointments falling through the cracks, resulting in greater efficiency for both practice and patient. Additionally, WaterLase iPlus is indicated for both periodontal and endodontic procedures, so entering general dentists can keep more of those cases within their practice. Dental professionals who have successfully integrated WaterLase iPlus into their practice can realize more than just enhanced clinical outcomes and greater productivity. Independent research shows that WaterLase iPlus owners report a renewed passion for their craft and greater enjoyment in addressing the clinical needs of their patients. By reducing chair time, improving clinical results and enhancing the overall management of patient-flow through a practice, WaterLase iPlus can become the cornerstone of the 21st-century dental office.

WaterLase iPlus is indicated for a wide range of soft- and hard-tissue treatments, including comprehensive periodontal procedures (such as deep pocket therapy with new attachment and subgingival calculus removal) and endodontic treatment (such as root canal shaping and cleaning). WaterLase iPlus delivers 10 watts of power and up to 100 pulses per second for fast, efficient cutting with little or no anesthetic required. An illuminated, compact, contra-angle handpiece allows precise control and movement of the laser tip around the treatment site as well as easy access to all areas of the oral cavity. WaterLase iPlus is operated via an intuitive graphical touchscreen. There are no settings to program or tip guides to consult. The system includes a docking station for an iLase 940 nm diode laser. A comprehensive selection of tips, accessories and upgrades are available. A full regimen of introductory and advanced training is included with each WaterLase iPlus.

Innovatively positioned for the general dental practice: the WaterLase iPlus laser system. Photo/Provided by BIOLASE
Rhein'83, a global producer of precision attachments on removable prosthesis, describes its OT Equator as the smallest dimensional attachment system on the market. It has a reduced vertical profile of 2.1 mm and diameter of 4.4 mm (metal housing included). It is compatible with any implant brand. Because of its shape, Equator provides superior stability when compared with traditional attachments, according to the company. It corrects divergence of up to 25 degrees, the company reports. Functionality is guaranteed by coupling of attachment and cap.

Caps are available in four colors, based on levels of retention — from a minimum of 0.6 kg to a maximum of 2.7 kg. Caps should always be used with metal housing.

Rhein’83 OT Equator has a reduced vertical profile of 2.1 mm and diameter of 4.4 mm

To learn more about OT Equator, you can contact the company by email at info@rhein83usa.it or by telephone at (877) 778-8383. You can visit the company online at www.rhein83usa.com to learn more about all of its products and services, including the OT Equator.

(Source: Rhein’83)

Many dental products are used only once, including mixing tips used to prepare cements, impression materials and temporary crown-and-bridge (C&B) material. Following application, the mixer and any material left inside is discarded. To help dentists work more efficiently and sustainably, Switzerland’s Sulzer Mixpac has enhanced its tried-and-tested mixers: The new T-MIXER™ is significantly shorter, so material can be mixed even more quickly.

For example, the new blue model saves about 0.4 ml of material per C&B application compared with its predecessor. If a dentist performs an average of four C&B sessions per day, this adds up to 350 ml of savings every year, which is equivalent to seven 50 ml C&B cartridges. Assuming average costs of $100 per temporary C&B material cartridge, the new T-MIXER helps cut annual material costs by approximately $700. And the mixing result is even better.

A T-MIXER’s endorsement by The Dental Advisor1 affirms its clinical evaluation. This product enables dentists to not only improve the health and well-being of their patients, but also make their business more efficient, according to the company.

Learn more about Sulzer’s T-MIXER product family from your specialty retailers and by viewing a short film at bit.ly/T-Mixer.

Double your benefits with better mixing

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(source: Rhein’83)

(source: Sulzer Mixpac)
Glidewell Laboratories launches Newport Biologics line of regenerative materials

By Glidewell Laboratories Staff

Glidewell Laboratories, an industry-leading provider of dental laboratory services and intraoral medical devices, has announced availability of a new line of bone grafting products, to be sold under the Newport Biologics™ brand name. Featuring allograft and alloplast bone graft options, as well as resorbable barrier membranes and a collagen-based wound dressing, the product line is aimed at increasing clinician access to top-quality regenerative materials for cases marked by bone or soft-tissue deficiencies.

“The Newport Biologics line of bone grafting materials and resorbable barrier membranes represents the highest quality of regenerative products available,” said Dr. Neil Park, director of clinical affairs for Glidewell Laboratories. “By assembling only the most versatile, effective and frequently used regenerative materials the industry has to offer, we hope to provide clinicians a simplified buying experience, unparalleled value and the confidence to efficiently and reliably treat the majority of grafting indications.”

Along with the damaging cycle of tooth loss and tissue resorption known to result from periodontal defects, extraction sockets and other bone deficiencies, industry trends suggest that an increasing percentage of dental implant procedures require bone grafting to optimize the esthetic and functional result. These and other factors have led to a discernible rise in the demand for grafting procedures in the modern dental practice.

“Unfortunately, there tends to be a lot of confusion in the marketplace,” said Dr. Neil Park, director of clinical affairs for Glidewell Laboratories. “Different materials, of varying origin and composition — all with proprietary naming conventions — can make it difficult for dentists to determine which products are best suited for their patients’ needs.”

Newport Biologics products are carefully selected for the dental practice and processed in accordance with rigorous U.S. FDA regulations. The allograft materials are sourced from the venerable University of Miami Tissue Bank, the oldest in the nation, and resorbable membranes are engineered to optimize handling characteristics to support the clinician’s preferred bone-grafting techniques. Individual product names are intended to clearly reflect the material’s composition and usage.

“We are very excited to add the Newport Biologics line to our growing portfolio of dental implant and restorative products,” said Dave Casper, president of Prismatik Dentalcraft, the manufacturing division of Glidewell Laboratories. “We’ve solicited feedback from some of the top opinion leaders in implant dentistry to bring a focused line of regenerative products to our customers that can meet their bone grafting needs.”

Founded in 1970, Glidewell Laboratories is a full-service dental lab and dental device manufacturer based in Newport Beach, Calif. Since inception, Glidewell has been driven by clinician demand and fueled by a mission to improve affordability of advanced dental procedures. The company advances the leading edge of dentistry, employing a diverse team of dentists, scientists, material researchers and other experienced professionals to develop products.

For more information about the company’s history and offerings, you can visit www.glidewelldental.com. To learn more about Newport Biologics, you can call (888) 303-3975 or visit www.newportbiologics.com.
Revolutionary PFM

Obsidian®
LITHIUM SILICATE CERAMIC
PRESSED TO METAL

NEW PRICE!
Obsidian Pressed to White Noble Alloy
$116/unit* flat rate price including alloy

• OVER FOUR TIMES STRONGER than Ceramco®3 PFM ceramic†
• TWICE THE CHIP RESISTANCE of Ceramco3 PFM ceramic†
• IDEAL FOR BRIDGES, cases with insufficient vertical space for
full-contour zirconia, and screw-retained restorations

Biaxial flexural strength is measured by applying force to the test discs until the ceramic fails. Obsidian ceramic takes over four times the force to fracture compared to the force necessary to fracture conventional feldspathic porcelains (PFM veneering ceramics).

Chip resistance is measured by applying a point-force (load) on the edge of a test sample until chipping occurs. Obsidian Pressed to Metal withstands more than twice the load compared to feldspathic porcelains.

Biaxial Flexural Strength

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<th>Flexural Strength (MPa)</th>
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<tbody>
<tr>
<td>Obsidian</td>
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<tr>
<td>450</td>
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Over 4x stronger than Ceramco®3

Chipping Resistance Test

<table>
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<th>Initial Chipping Load (N)</th>
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<tr>
<td>Obsidian</td>
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<tr>
<td>400</td>
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2x higher chip resistance

*Price does not include shipping or applicable taxes. †Data provided by Gliswold Laboratories Research and Development Department, 2015.
Obsidian is a registered trademark of Prametik Dentalcraft, Inc. Ceramco is a registered trademark of Dentistry Syrma Inc.
"The best looking PFM s I've seen in 27 years as a ceramist."
— Joe Hattouni, CDT, General Manager Fixed Prosthodontics

Obsidian
30-month Clinical Performance
+++++

LONG-TERM CLINICAL PERFORMANCE
The performance and esthetics of Obsidian crowns during the 30-month evaluation period has been exceptional. The restorations will continue to be monitored over time. Obsidian received a clinical performance rating of 98% at the 30-month recall.

For more information
888-786-2177
glidewelldental.com
Purchasing, starting up or operating a practice is appealing to many medical professionals because of the independence and financial security it can provide. But it’s also a major endeavor that brings with it a host of financing considerations.

To help meet those needs, Zions Bank has launched a new professional finance division called Practice Pathways that offers a lending solution tailored to busy medical professionals from start-up to retirement.

“Practice Pathways was designed to meet the needs of medical professionals so they can focus on what they do best — provide care to their patients,” said Peter Morgan, executive vice president of Zions Bank’s Specialty Banking Division, which includes Practice Pathways. “Our job is to assist with personalized service and a line of great products to support their practices.”

Full suite of services
Backed by the strength of Zions Bank and its expertise in U.S. Small Business Administration and Commercial Real Estate lending, Practice Pathways offers a full suite of services, including financing for:

• Practice acquisitions and start-ups
• Debt consolidation and refinance
• Expansion and tenant improvements
• Equipment
• Working capital
• Commercial real estate/ground-up construction
• Practice equity

David Kirby, senior vice president and director of business banking for Zions Bank, leads Practice Pathways and a team of bankers that specializes in serving clients in the medical profession. “Whether it’s a loan to purchase equipment or to acquire the practice itself, clients can work with the same relationship manager to accomplish a variety of goals,” Morgan explained. “It’s a single stop versus a fragmented approach, which sets us apart.”

24 Greenwich Excellence Awards — second highest of all U.S. banks
Zions Bank is a leader in small business lending and has been recognized as one of the top providers of U.S. Small Business Administration 7(a) loans. Zions Bank, as part of Zions Bancorporation, earned 24 Greenwich Excellence Awards, the second-highest number of awards given among all U.S. banks for 2016.

To learn more about Practice Pathways, you can visit the booth at the 2016 International Association of Physiologic Aesthetics meeting, Oct. 13–15, in Las Vegas. You can also submit an application at www.practicepathways.com and receive an initial response within one business day. From there, a Pathways specialist will help design a custom solution to help you start or grow your medical practice in the years to come.

(Loads and credit products are subject to credit approval; terms and conditions apply.)

(Source: Zions Bank)
Kettenbach’s Panasil impression material recently earned high marks in the benchmark evaluated by Catapult Group. Experts who investigated Panasil initial contact were especially impressed with the precision poly-vinyl siloxane impression material.

Eighty-eight percent of those surveyed rated Panasil “equal to or better for overall quality” than the impression material they currently use, and 57 percent found it better. This was the result of Catapult’s benchmark test for “Panasil initial contact.” The material is produced by the dental and medical specialist Kettenbach GmbH & Co. KG (www.kettenbach.com).

Thorough testing
The precision impression material was subjected to thorough testing. It impressed the expert testers with properties such as its strong hydrophilicity, high precision and dimensional stability.

Catapult Group has more than 50 dentists regularly test and evaluate proven and new products. These tests are designed to make it possible for practitioners to determine a product’s innovation, suitability for dental practices and potential for optimization.

Highest degree of precision and dimension stability
“Panasil initial contact” is an addition-curing, elastomeric, poly-vinyl siloxane precision impression material. The low to very low viscosity materials of this product family offer clinicians precise results whether using the two-step impression technique or the one-step double-mix technique.

The products are available in various viscosities to cover a wide variety of different procedural requirements. Of all available dental impression materials, addition-curing impression materials achieve the highest degree of precision and dimension stability and have an extremely low linear dimensional change of -0.04 percent in 24 hours. These advantages were confirmed in the recent Panasil test by Catapult.

High, medium or low viscosity, normal or fast setting, manual or mechanical processing
According to Kettenbach, Panasil was given unusually high ratings by the experts, with 86 percent of the testers stating that they were considering using the product in their practices.

The versatility of the Panasil family, according to the company, provides an appropriate material for nearly every dentist, be it high, medium or low viscosity, normal or fast setting or for manual or mechanical processing.

High initial hydrophilicity
Every version that was selected impressed testers with ‘very high initial hydrophilicity.’

For an impression material, it is important not only to wet the surface of the tooth, but also to displace fluids such as blood or saliva from the preparation margins.

Panasil was also given good marks for high precision. Precise impressions are needed especially for the popular but frequently breakage-prone ceramic restorations to achieve a good internal fit with an even distribution of tension. Panasil fully complies with this criterion.

In short, according to Kettenbach, the test results show that the Panasil family covers most requirements of dentists in clinical practice and should be considered when selecting a new impression material.
Barrier protection critical with dental gloves

Gloves with inferior capability could expose patient/user to harmful infections

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.

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.

Quality, safety top priorities

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.

Nitrile, sustainable resource

Latex gloves are green products, derived from a natural and sustainable resource, and are environmentally friendly. (You can learn more online by visiting www.smgonline.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-responsive 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-responsive 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: Malaysian Rubber Export Promotion Council)