BruxZir solid zirconia indications for implants

By Dr. Bradley C. Bockhorst

Why should you be interested in the monolithic concept of a solid zirconia crown?

As you know, when you fuse porcelain to a metal or zirconia substructure, there is always the possibility the two layers could separate. The best-case scenario is a small chip of the porcelain that you might be able to polish off. The worst-case scenario is that the porcelain completely fractures, exposing the substructure and requiring replacement.

A key benefit of monolithic restorations is that nothing can chip off, as we don’t have two materials fused together. The restoration is made of one homogeneous material.

BruxZir® is a full-contour zirconia restoration with no porcelain veneer. More brawn than beauty, the BruxZir solid zirconia crown has rapidly gained popularity for posterior restorations, thanks to the precision milling of CAD/CAM technology. With the increasing price of gold for porcelain-fused-to-metal restorations, the proven strength of zirconia gives you a viable option for your posterior implant crowns and bridges.

Inclusive Custom Titanium Abutments provide ideal support for the restoration and the soft tissue. This CAD/CAM-designed abutment exhibits a natural-looking emergence and provides strength and durability.

The laboratory virtually designs your abutment and mills a tailor-made solution of the highest quality. Also available in the Inclusive line of products is the Inclusive Ali Zirconia Abutment and the Inclusive Zirconia Abutment with titanium insert.

BruxZir screw-retained implant crown

The screw-retained BruxZir crown provides a one-piece alternative to cemented implant restorations. This restoration combines the abutment and crown into one solid restoration. The benefits include: no crown margin, and therefore no concerns about excess cement; easy retrievability; and, because it is monolithic zirconia, no possibility of porcelain fracturing off.

Inclusive Custom Implant Abutments, as well as the screw-retained BruxZir crown, are compatible with the Neoss, NobelReplace, NobelActive, Biomet 3i Certain, Branemark System RP, Straumann Bone Level, Keystone PrimaConnex and Zimmer Screw-Vent implant systems.

A look at ProScore’s XTend Ceramic kits, and turbines

With the launch of its new XTend™ Ceramic line of turbines and kits last year, ProScore offers dentists some of the best quality, do-it-yourself products for high-speed handpieces in the market. Not only are XTend Ceramic products backed with warranties — one-year for turbines and six-months for rebuild kits — XTend products outperform steel bearings while lasting longer and producing less noise and vibration.

The ceramic bearing technology incorporated in XTend Ceramic products provides many handpiece performance benefits:

• Reduced wear: Ceramic balls are twice as hard as steel balls
• Increased durability: Ceramic balls are 40 percent lighter than steel balls, which reduces the internal forces and loads caused by high-speed rotation
• Longer life: Ceramic bearings perform better than steel under marginal lubrication
• Quieter and smoother operation: Noise and vibration are reduced as a result of lower loads.

XTend Ceramic turbines also feature hardened, heat-treated, precision-ground spindles to enhance concentricity and to further reduce noise and vibration.

ProScore has been dedicated to do-it-yourself handpiece repair and maintenance since entering the dental market more than 15 years ago as Score International.

Inclusive Custom Implant Abutments

Inclusive Custom Titanium Abutments

Inclusive Custom Ali Zirconia Abutments

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Inclusive Zirconia Abutments with titanium insert

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*Educators are subject to change. View the complete program online.

Here at GNYDM

For more information, stop by the Glidewell booth, No. 2203.

Here at GNYDM

For more information, contact ProScore at (800) 726-7365, visit www.scoredental.com or find ProScore at the Henry Schein booth, Nos. 1015/1023/1417/1820.
DMG America’s Luxatemp has been an industry favorite for more than 20 years, and now the company has launched Luxatemp Ultra, and with it, “the best just got better!”

“The new version encompasses all of the benefits of Luxatemp but with added superior, flexural strength,” said DMG America President George Wolfe. “This allows the product to be used in all provisional restorations.”

Incorporating proprietary nano technology, new Luxatemp Ultra contains industry-leading flexural strength—the true measure of provisional stability and long-term durability. Luxatemp Ultra continues to deliver the unmatched esthetics synonymous with the Luxatemp name, Wolfe said. Along with superior color stability, Luxatemp Ultra includes florescence, to create temporaries that look more like natural teeth in all lighting conditions.

In addition to introducing Greater New York Dental Meeting attendees to the benefits of Luxatemp Ultra, Wolfe said DMG America is promoting its revolutionary treatment for incipient caries and white spots: Icon.

“Icon has been very well-accepted (since its launch a year ago) and has received a lot of attention from consumer media,” he said. “But because it’s a deviation from the norm, it requires a different mindset. It really is revolutionary.”

Icon provides an innovative, never-before-seen option for the treatment of smooth surface and proximal carious lesions.

Prior to Icon, dental professionals had two choices in the treatment of caries: use fluoride and other treatments to re-mineralize enamel in the very early stages—or “wait and see” until it’s time to “drill and fill.”

However, with Icon, instead of taking a “wait-and-see” approach, a clinician can arrest the progress of early enamel lesions up to the first third of dentin in one simple procedure. Using Icon, you can avoid the unnecessary loss of health tooth structure. The treatment is truly minimally invasive, Wolfe said.

Luxatemp Ultra: Back and better than ever

By Sierra Rendon, Dental Tribune

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Icon application procedure

Icon offers fast, simple treatment in one visit—with no drilling:

1) For proximal lesions, the affected teeth are slightly separated with dental wedges.
2) The surface area of the lesion is eroded with a 15 percent HCl gel. This opens the pore system of the lesion body.
3) The pore system is then dried with ethanol.
4) Icon is then applied onto the lesion body with the application aid. The extremely high penetration coefficient of the Icon resin enables it to penetrate into the lesion pores.
5) Excess material is then removed and the material is light cured.

Total treatment time per lesion: about 15 minutes!
Midmark devoted years of research and development in order to create a unique dental chair that helps to relax and provide comfort to the patient, but also provides unobstructed access for the clinician.

The Cantilever Forward™ design grants patient access as low as 15 inches and as high as 34 inches. In addition, the optional SerenEscape™ feature warms and massages the patient’s lower back.

Dental Tribune stopped by the Midmark booth, No. 217, to test the chair out and talk to Midmark Director of Marketing Bill Zulauf.

Would you tell us more about the Elevance™ dental chair please?

We introduced the Elevance dental chair late this summer, so it’s relatively new. The key features are its styling, the access for both the patient and the dentist and the comfort.

More details about the styling include the fact that the chair has a cantilevered forward design, which allows one to place the chair very low or very high. Thus, if a practitioner wants to do a procedure standing, this chair makes it possible.

This, of course, gives the clinician good access to the patient, but without the arm rests being in the way. There is also easy access for the patient to get in and out of the chair. The Elevance chair will lift a 450-pound patient. Most dental chairs only go as high as 350 pounds.

From a comfort standpoint, the back of the chair has an integrated heat and massage features that the patient can control. There are three different types of massage — flat, pulse or wave — and the patient can also control the speed and intensity.

We noticed that a lot of dental offices place blankets in the corner of the room for patients to use while seated in the dental chair. So now, warmth through the Elevance chair avoids the sepsis problem associated with using a blanket.

There is a foot pedal for the clinician’s control of the chair, but it also has a wireless remote control with four preset positions that can be programmed as well as a composite safe mode for the dental light.

Additional features include an optional, double articulating, magnetic headrest that comfortably and accurately positions the patient’s head for full access.

The integrated armrests cradle the patient’s body. Advanced lumbar support means the patient stays comfortable even during long procedures. The contoured seat pocket not only increases patient comfort but also ensures proper positioning.
Isolite brings home another accolade while new IsodryTI named Top Technology Product

Isolite Systems, maker of dental isolation technology, announced its products have received new industry recognition. Dentistry Today magazine recognized the Isolite dryfield illuminator as one of the Top 100 Products for 2010 for the dental industry.

The Isolite dryfield illuminator is a dental tool that combines the functions of light, suction and retraction into a single device, solving many of the frustrations that dental professionals deal with on a daily basis.

The device gently holds the patient’s mouth open, keeps the tongue out of the working field and guards the patient’s vulnerable airway, all while continuously evacuating saliva and excess moisture. The super-soft mouthpiece used with the device makes for a more comfortable experience for the patient and allows dental professionals to work more efficiently with greater control over the oral environment.

Additionally, the company said its IsodryTI, a non-illuminated dental isolation system, was named to Dentistry Today magazine’s Top 50 Technology Products for 2010. IsodryTI performs all the functions as Isolite, with the exception of intra-oral illumination. The IsodryTI was introduced to the dental industry in February.

Both dental isolation systems utilize the patented Isolite Isoflex mouthpiece. The unique shape and softness of the mouthpiece is key to the systems’ advanced dental isolation. The latex-free mouthpiece comfortably allows fluids and debris to be aspirated from deep within the oral cavity.

Built-in tongue, cheek and throat shield protect the patient from injury and provide an added measure of assurance that the airway is better protected from possible dental debris. Single-use Isolite mouthpieces are available in five sizes to fit the spectrum of patients from small child to large adult.

Other recognition received by Isolite Systems for its Isolite dryfield illuminator includes:

- DrBicuspid.com “Dental Excellence Award – Best New Instrument” (2009)
- Named a “Best Product 2008” by Dental Product Shopper magazine; received a 4.8 rating (out of a possible 5.0) by reviewing dentists

For more information about Isolite Systems, call (800) 560-4066 or visit www.isolitesystems.com. Both Isolite and IsodryTI are being exhibited at booth No. 323.

Here at the GNYDM
DTSC NEW COURSES – GNYDM '09
RECORDED AT THE LIVE DENTISTRY ARENA LAST YEAR. REGISTRATION FEE FOR EACH ONLINE COURSE IS $95.
COME SEE 16 LIVE DEMONSTRATIONS AT THE 2010 GREATER NEW YORK DENTAL MEETING ON NOVEMBER 26 - DECEMBER 1, 2010

FRANK J. MILNAR, D.D.S.
A DIASTEMA CLOSURE – LIVE PATIENT DEMONSTRATION TO INSURE MAXIMUM ESTHETIC RESULTS
This live patient procedure is designed to provide you with information and tips that will help you quickly select products and develop the techniques required to restore a diastema that esthetically meets today’s patient’s demand.

GARY BEY, D.D.S.
GET TO THE APEX MORE SAFELY AND EASILY – LIVE PATIENT PROCEDURE
This live demonstration is designed for the practitioner who is seeking new ways to practice endodontics safely, predictably and more frequently.

IN-OFFICE CAD/CAM – A LIVE PATIENT DEMONSTRATION
A live patient step-by-step demonstration of a posterior onlay restoration is performed using the latest chairside CAD/CAM technology.

BRUCE J. LISH, D.D.S.
MINI DENTAL IMPLANTS TO RETAIN LOWER DENTURES – LIVE PATIENT PROCEDURE
The use of mini dental implants to help retain and stabilize a complete lower denture has helped improve the quality of life for many patients.

JACK RINGER, D.D.S.
DESIGNING AND CREATING BEAUTIFUL PORCELAIN LAMINATES PREDICTABLY – LIVE PATIENT DEMONSTRATION
This live patient program is designed to demonstrate the most predictable, efficient and successful protocol available today in creating porcelain laminates from initial consultation with the patient to completion.

THE BEAUTIFUL SIMPLICITY OF COMPOSITE RESIN BONDING: A LIVE DEMONSTRATION
Composite resin restorations offer a conservative and viable alternative to porcelain. Restorations that were once thought to be impossible or “heroic" at best, can now be achieved easily, reliably, and consistently with composite resin.

MICHAEL H. MORGAN, D.D.S., M.S.
REAL-TIME COMPUTER NAVIGATION TO OPTIMIZE IMPLANT PLACEMENT USING THE IGI – IMAGE GUIDED IMPLANT DENTISTRY SYSTEM – LIVE PATIENT DEMONSTRATION
Live demonstration utilizing the state of the art IGI – Image Guided Implant Dentistry System by Image Navigation Ltd. for the planning and placement of dental implants is shown.

FRANK J. MILNAR, D.D.S.
PREDICTABLE TECHNIQUES TO CREATE A POST AND CORE AND LIFE-LIKE PROVISIONAL - LIVE PATIENT DEMONSTRATION
This live patient demonstration teaches the attendees how to create esthetic transitional restorations and use minimally invasive concepts when preparing and restoring a post and core.

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WWW.DTSTUDYCLUB.COM/GNYDM09
Dental Tribune has been combing the aisles here at GNYDM to see what’s new and exciting. Here are a few highlights:

- **Dental Sharing (booth No. 5227)**, a company founded by Dr. Glenn Godart, allows dentists to share digital X-rays and other electronic patient files with each other in a HIPAA-compliant manner. The web-based service offers the ability to manage and store full-resolution images and related documents, but it does not require any incremental hardware or software investment.

- At Aseptico (booth No. 807), you can learn about a new, fully self-contained mobile dental cart featuring one low-speed and two high-speed handpiece connections, high-volume and low-volume suction with overflow protection and electronic waste purge, and several options, including a piezo-electronic scaler, a curing light and a height adjustable tray. (You can also enter for a chance to win an autographed football at Aseptico.)

- For clinicians who practice endodontics, Komet USA (booth No. 5422) is offering Endo Rescue tools, which are useful in the removal of instrument fragments that might occur during a procedure. The removal of such fragments is often extremely difficult, but Endo Rescue offers a simple and systematic solution.

- Pentron Clinical (booth No. 825) is offering Fusio Liquid Dentin, the first self-adhesive flowable composite, that bonds to dentin and enamel without acid etching or a bonding agent. By fusing together adhesive and restorative technology into one product, Pentron has created what it calls one of the most versatile materials in dentistry.

- Aribex (booth No. 337) is offering the NOMAD Pro handheld X-ray system. The cordless unit provides hundreds of images from a single battery charge.

- China Glory Dental Group is a conglomeration of successful dealers selling dental consumables and equipment throughout China. It is capitalized by dental dealers and successful entrepreneurs who are familiar with the needs of dental companies seeking to do business in China, and it recently received a significant investment from one of the leading private equity funds in China.

China Glory has an extensive sales network covering all 28 provinces and 326 cities and municipalities throughout China. Every member of the group has more than 10 years of marketing experience. The members of the group participate in every major Chinese dental exhibition.

Currently, there are more than 200 representatives and 10,000 customers serving the needs of more than 1 billion people in China.

Here at the Greater New York Dental Meeting, the presidents of 11 different companies are presenting their product lines to representatives from China Glory to potentially be sold throughout China.
MOJO VENEER CEMENT

Give your patients their mojo back with the cement that leaves shade shift behind and helps you create a seamless, natural-looking smile.

Pentron is proud to introduce Mojo™ Veneer Cement, the latest in adhesive technology from Pentron Clinical. Mojo Cement is a light cure, esthetic cementation system that is designed for use with porcelain, ceramic and composite veneer restorations. This ideal cement offers two very important features: try-in gels that consistently match the polymerized cement and no detectable shade shift.

The simple, highly versatile shade selections, designed for a simple warming or brightening of the veneer, allow this material to be used with a wide range of veneer cases while offering the least amount of detectable shade shift available. The corresponding water-soluble try-in gels, included in the comprehensive kit, allow for a perfect match to the cured cement.

Pentron Clinical is an established leader in the dental industry, offering a wide variety of products to suit your restorative needs. Its portfolio includes: Fusio® Liquid Dentin, Breeze® self-adhesive resin cement, Lute-It Luting Cement, FibreKleer® Posts, Bond-It® SF Solvent Free SE Adhesive, Correct Plus® impression materials and Artiste® Nano Composite.

(PHOTO/Provided by Pentron)

VANTAGE DIGITAL PANORAMIC SYSTEM

Progeny, a leading manufacturer of intraoral X-rays in the United States, announces the Vantage™ Digital Panoramic System. Vantage is designed to bring full-featured yet affordable digital panoramic imaging to general dentistry.

Vantage offers a range of features that include advanced user tools, expanded kV and mA range, field-selectable left or right patient entry and a dedicated PC workstation with software included standard on every system. The system is designed for immediate productivity “out of the box.”

Powered by the latest CCD imaging technology, automatic spinal compensation and Progeny’s 3-Motion™ Imaging Rotation, Vantage delivers consistent, detailed images for analysis and diagnosis. Workflow enhancements include three lasers for precise positioning, left and right mechanical controls, four pre-programmed exam selections and the unique VantageTouch™ user interface.

VantageTouch functions much like today’s smart phones and gives new meaning to user-friendly. Its intuitive, multi-touch technology allows clinicians to access any function with speed and confidence just by touching the screen. Exam set-up, real-time image preview and exam status are all quickly accessed at the VantageTouch control. Exam customization and even routine maintenance procedures are all available through VantageTouch.

In addition to its many system features, Vantage also includes a dedicated computer workstation with TWAIN enabled software as standard features. The system can be interfaced with existing practice management software or images can be captured using Progeny Imaging Software.

For more information, stop by the Midmark booth, No. 217.

(PHOTO/Provided by Midmark)
VITABLOCS REALLIFE

VITABLOCS® RealLife® are the first and only all-ceramic blocks that incorporate a unique, spherically curved dentin core with a complementary enamel coat within the block.

The layered structure of VITABLOCS RealLife effectively simulates the optical characteristics of natural teeth.

Used in conjunction with Sirona’s new V3.80 software, VITABLOCS RealLife provide the dentist or laboratory technician with virtually unlimited options for designing anterior restorations of unsurpassed esthetic quality.

With a few simple clicks of the mouse to define labial wall thickness, the V3.80 software directs the milling machine to automatically position the VITABLOCS RealLife block on the enamel-dentin border of the block, thus reducing milling time while simultaneously achieving a perfect shade effect with the correct ratio of dentin and enamel.

Only VITABLOCS RealLife have the ability to reproduce the desired shade effect in regard to translucency, chroma and lightness.

What’s more, the V3.80 software allows the dentist or lab technician to quickly and easily change the position of the restoration in the block as needed to reproduce very fine shade nuances, which can be verified on-screen before milling begins.

The result is a finished, highly esthetic restoration that is ready to be seated directly upon removal from the milling machine, with no need for additional characterization, staining or individualization steps.

For more information, stop by the Sirona booth, No. 4625.

SUREFIL SDR FLOW POSTERIOR BULK FILL FLOWABLE BASE

SureFil® SDR® Flow Posterior Bulk Fill Flowable Base, the unique posterior flowable composite that can be placed in bulk, saving up to 40 percent in placement time, is now available in three new shades: A1, A2 and A3.

The stress decreasing resin (SDR) technology provides 60 percent less polymerization stress, allowing for 4 mm increment placements with a 20-second cure time.

It also has a unique, self-leveling handling that allows it to adapt to the walls of the prep with minimum to no manipulation.

For more information, visit www.surefilflow.com, call (800) 532-2855 or stop by the DENTSPLY Caulk booth, Nos. 2603/2803.

Tell us what you think!

Do you have general comments or criticism you would like to share? Is there a particular topic you would like to see more articles about? Let us know by e-mailing us at feedback@dental-tribune.com.