By Michael C. DiTolla, DDS, FAGD

Glidewell Laboratories’ weekly web series “Chairside Live” has given us a great opportunity to communicate with clinicians across the nation and educate them on topics that they’re actually interested in learning. If you haven’t yet had the opportunity, episodes can be viewed on-demand at www.chairsidelive.com or on YouTube and iTunes.

In the Case of the Week from Episode 105, I wanted to try something that I really hadn’t done before. I’ve done some anterior BruxZir® restorations, and they turned out well, but I had yet to do an anterior crown case in conjunction with a BruxZir veneer. This is going to be a straightforward case on teeth #8 and #9 with a BruxZir crown and a BruxZir veneer adjacent to it.

Case presentation
This patient had a pre-existing PFM on tooth #8 that was a poor esthetic match (Fig. 1). Because of the patient’s deep overbite, I liked the idea of using a BruxZir crown for tooth #8 because I could keep it almost as thin as that PFM was on the lingual. I also planned to have the lab fabricate a BruxZir no-prep veneer for tooth #9, which happened to be facially deficient anyway.

I anesthetized the patient and took off the crown. The prep had been endodontically treated, and it looked like a gold post was placed in the incisal edge. We placed the first cord (size 00) and then prepared the gingival third of the tooth. Because the tooth already had a PFM, I didn’t have to do a ton of reduction; it was more about where I did the reduction.

While reducing, I exposed a little bit of gold, so I covered it up with a self-adhering composite resin, and then I finished smoothing off the prep (Fig. 2). Then I placed the top cord (size 2), which upon removal left us a wide open sulcus that would be simple to impress. That’s the benefit of using the two-cord technique.

Six days later, we took off the temporary and tried in the final restorations, which the patient approved. We cemented the crown with Ceramir® Crown & Bridge cement (Doxa Dental; Newport Beach, Calif.).

Here in Atlanta
Learn more about BruxZir restorations at the Glidewell booth, No. 1345.

The thing I love about Ceramir cement is the fact that it bonds on its own to zirconia without requiring you to decontaminate the internal surface of the BruxZir crown or use a zirconia primer. Plus, the cement will typically clean up in just one piece (Fig. 3).

With the crown placed, I then turned to the veneer. After try-in, I decontaminated the internal portion of the BruxZir veneer by sandblasting it for 15 seconds. I then placed a layer of Z-Prime Plus and air thinned it, and then placed a layer of bonding agent and air thinned it.

I isolated the two adjacent teeth with mylar strips and then etched with phosphoric acid, rinsed, placed the bonding agent, air thinned it, placed the veneer with the light-cured resin cement inside and cured it. You can definitely light-cure through solid zirconia. Try it yourself when you receive the case.

Here’s the patient with the crown and veneer in place (Fig. 4). It looks pretty good, considering those are BruxZir solid zirconia restorations with no ceramic on the facial. BruxZir continues to look better because of the increased translucency of the material.

I’m now feeling more confident that if I’m placing a crown on a single anterior tooth that I can place a BruxZir veneer on the tooth next to it. As long as #8 and #9 match, we have a chance of having a nice smile.
The Industry’s #1 Digital Panoramic X-ray

ProMax® S3

WHAT IF...

- Extraoral bitewings capture a greater number of surfaces for better caries detection versus intraoral modalities
- Anatomically Accurate Extraoral Bitewing Program enhances diagnostic capabilities and eliminates gagging
- Patented SCARA technology opens interproximal contacts
- Enhances clinical efficiency - takes less time and effort than a conventional intraoral bitewing
- Captures more clinical data from lateral to third molar
- Fully upgradable to 3D and cephalometric capabilities
- Open design for simple, face-to-face patient positioning

*According to “Efficacy of ProMax Bitewings vs. Intraoral Bitewings.” For a copy of this study, please contact Planmeca USA.

See PLANMECA at
The Thomas P. Hinman Dental Meeting
Booth #637

For a free in-office consultation, please call
1-855-245-2908
or visit us on the web at
www.planmecausa.com

OWN THE FUTURE
PRACTICE PLANMECA

DENTISTRY TODAY
TOP 50 TECHNOLOGY PRODUCTS
2014 READERS’ CHOICE AWARD
What if dentists could capture interproximal caries and more extraorally? The Planmeca ProMax S3 makes this achievable with the anatomically accurate extraoral bitewing program, possible only with patented SCARA (selectively compliant articulated robotic arm) technology.

These extraoral bitewings eliminate gagging and capture a greater number of surfaces for better caries detection versus intraoral modalities* and are especially useful for periodontal patients, children, elderly patients, claustrophobic patients, patients with special needs, patients who gag or patients in pain. ProMax’s extraoral panoramic bitewings consist of two bitewing images that are focused to expose interproximal contacts and magnified for higher resolution. These images show details from premolar to third molar areas, including parts of the maxilla, mandible and rami.

They are also useful in the placement of temporary anchorage devices (implant abutments) in certain treatments. This captures more clinical data (lateral to third molar) and consistently opens interproximal contacts better than most intraoral methods.

All of this comes without the challenges of sensor placement, the changing of sensor sizes, disinfection and equipment maintenance, helping clinical procedures run quicker and smoother than ever before, according to the company.

The ProMax S3 also offers innovative features for compliance with the ALARA radiation safety principle. Its unique autofocus feature significantly reduces retakes, while adjustable kV and mA settings, as well as horizontal and vertical segmentation, provide the tools to limit radiation based on clinical need.

The unit is software-driven for upgradability, from advanced 2-D imaging programs to cephalometry, one-shot cephalometry, digital impression and cast model scanning, Proface 3-D facial photos and 3-D imaging. All of the units include open-architecture Planmeca Romexis, a versatile software suite designed to support optimal imaging workflow and usability at chairside.

* According to “Efficacy of ProMax Bitewings vs. Intraoral Bitewings.” For a copy of this study, contact Planmeca USA.
SHOW OFF THAT SMILE!

For permanent cementation of all-ceramic restorations. Zirconia, Lithium Disilicate, CAD/CAM materials, veneers, crown & bridge, inlays, onlays, PFM, and Custom Zirconia abutments.

SWEEPSTAKES! Win a course at the Nash Institute! Visit the TAUB Products booth 508 at the HINMAN to register!

Implant Cement for a Perfect and Healthy Smile!

- Radio-opaque
- Bio-compatible
- Anti-microbial
- Dual-cure resin cement
- Low solubility
- Low film thickness
- Great color contrast to tissue
- Intermediate to Permanent retention
- Easily retrievable
- Made in USA

For more information visit: TAUBDENTAL.COM
Are you having difficulty extracting teeth? Are you referring many of your patients? Do you wish your extractions could be more predictable? Do you wish to render painless treatments? Do you wish to master immediate implant techniques? If you answered yes to any of these, the Extraction Academy is the answer.

The Extraction Academy will teach you about all extraction procedures. Topics include full-mouth extractions, impacted teeth, how to expose teeth for orthodontic treatment, wisdom teeth (any impaction category), calcified teeth, fully and partially erupted teeth, infected teeth, root tip extractions, complex cases, head and neck anatomy, pharmacology, intravenous sedation, guided-bone regeneration, tips and tricks, complications management, immediate implants, surgical instruments, nomenclature, proper use and application.

Through a blended learning platform, the Extraction Academy will provide all the tools you will need to learn, practice, improve and implement your daily treatments.

The Extraction Academy specializes in continuing education workshops and lectures for general dentists, periodontists, oral implantologists, oral surgeons and endodontists. Courses are designed around practical hands-on lectures.

The next course will take place May 3 in Anaheim, Calif. Cost is $1,750 (with a $150 coupon discount). The course fee includes course instrument rental, course documents, online education and C.E. unit certification. Register online at www.extacademy.com or contact info@extractionacademy.com or call +32 486 920 435 for more information.

Learn everything you ever wanted to know about exodontia at the Extraction Academy, taking place May 3 in Anaheim, Calif. (Photo/Provided by the Extraction Academy)

FUSION-Zr™ resin cements are self-adhesive and recommended for the permanent cementation of all-ceramic restorations, zirconia, lithium disilicate and CAD/CAM-type materials. The cements work best for no-prep veneers, minimally prepped veneers, prepped veneers, crown and bridge and inlays/onlays.

FUSION-Zr resin cements create an exceptional marginal seal, according to TAUB Products, the company behind the product. They eliminate micro-leakage and marginal staining. Bonding agents can be used but are not required.

FUSION-Zr dual-cure resin cements are compatible with zirconia-type restorations without additional zirconia primers. They are available in both light- and dual-cure in the following shades: crystal clear (for accurate visualization), opal white (for natural brightness and translucent restorations) and the new white (more opaque). Try-in pastes are available.

For more information, visit TAUB Products at www.taubdental.com, call (800) 828-2634, email sales@taubdental.com or stop by the booth, No. 508, here at the Hinman Dental Meeting.
WHAT IS IT? IT is Isolite Systems’ state-of-the-art and clinically proven Isolation Technique for consistent, predictable results every time. IT controls moisture and oral humidity by keeping the working field as dry as a rubber dam, but without any of the hassle. IT improves visibility and minimizes contamination. IT retracts the tongue and cheek and obturates the throat. IT protects your patients from accidental injury and foreign-body aspiration. IT gives you total control of the oral environment so you can do your best dentistry.

isolate® SYSTEMS
Better Isolation = Better Dentistry®

CALL US: 800-560-6066
www.isolitesystems.com

BRING THIS AD TO BOOTH
#35
AT THE THOMAS P. HINMAN DENTAL MEETING FOR A
SPECIAL OFFER

NOW EXPANDED TO SIX PATIENT FRIENDLY SIZES
Established in 1913, the National Dental Association (NDA) promotes oral-health equity among people of color by harnessing the collective power of its members, advocating for the needs of and mentoring dental students of color and raising the profile of the profession in our communities. It views “access” as a matter of social justice. As both caregivers and citizens of the communities that we serve, the NDA’s members are trusted and respected providers who have been at the forefront of treating those who have the least and need the most.

Dental care is medically necessary, yet millions of Americans lack access to care. Despite advances in health care and technology, glaring disparities still exist in some population groups as classified by age, sex, income and race/ethnicity. To address these inequities, the NDA-HEALTH NOW™ project (Health Equity. Access. Literacy. Technology. Hope. National Outreach on Wheels) was formed.

Project goals are to increase access, eliminate disparities and improve health equity in underserved and vulnerable populations. A grassroots, community-based program, NDA-HEALTH NOW replicates and takes to scale key features of the Deamonte Driver Dental Project (DDDP), the award-winning regional children’s program launched in 2008 for Prince Georges County, Md. It serves children, adults and the elderly; and in addition to dental care, offers medical and vision services.

The project promotes interprofessional health teams working with emerging workforce models to increase access and improve total health in America’s most vulnerable communities. Community programs are designed for use either with or without a mobile unit. Increasing awareness about the critical link between oral health and overall health is a key message.

A mixed-use mobile health unit designed by ADI-Mobile Health is touring the country to raise funds and crusade for healthier communities. It is specially equipped to provide each patient with dental screenings and treatment and, additionally, with health screenings (blood pressure, glucose and cholesterol), immunizations, flu shots and vision screenings. The unit, design, and exhibition at various conferences were made possible through the donations of ADI-Mobile Health, Henry Schein, and the Greater New York Dental Meeting.

Other sponsors and supporters include the W.K. Kellogg Foundation, the Coca-Cola Foundation, the Henry Schein Cares Foundation, Colgate, A-dec, Inc., Philips Sonicare, Air Techniques, the Aetna Foundation, the Links Foundation, Incorporated, Crest-Oral B, Patterson Dental, Oral Health America and Sunstar. Resources are also provided by academic partners and a massive volunteer network of NDA members and community organizations. Programs are currently active in targeted communities in Chicago, Dallas, New York and New Orleans.

NDA President Dr. Carrie Brown states: “We have launched a crusade for healthier communities that challenges the status quo. We will meet those in need where they are and support our providers, who have made a commitment to remain in communities where they are most needed. While we acknowledge and support health-outreach efforts around the globe, we must remain firmly rooted in our conviction that humanitarianism starts at home.”

For more information and to make a donation, visit www.ndaonline.org/healthnow.

Wake up loving what you do Have fun doing what you love

And make a difference in the world Challenge the status quo Join the LVI family of dedicated professionals Find out how LVI can change you and your patients’ lives

“My personal journey at LVI taught me the best, most cutting edge techniques in dentistry. It taught me how important it is to work on my business and most of all it allowed me to enjoy what I do whilst providing my patients with life changing dentistry.”

Dr. Conchh M. Sanchez-Garcia, Miami, FL

888.584.3237 | LVIglobal.com | youtube.com/user/LVITV

ADA CERP