Dr. Michael C. DiTolla, Chairside magazine editor-in-chief and director of clinical education and research at Glidewell Laboratories, talks with REALITY Publishing co-founder and editor-in-chief Dr. Michael Miller.

DiTolla: Let me run a newer idea by you, something that is certainly new to us at the laboratory. This actually started about a year and a half ago during a discussion with one of the REALITY editorial team members, Dr. David Baird.

We spoke to him at the time about unbreakable all-ceramic crowns, and he mentioned how he’d been restoring some cases with full-contour zirconia crowns. Essentially, the zirconia understructure that’s under a restoration has no porcelain stacked on it; it’s just a full-contour zirconia crown.

And at the Chicago meeting, Dr. Baird sent us over to the Zircon Zahn booth to talk to those folks. We went over there, and we were pretty impressed by what we saw.

We liked the idea of an unbreakable all-ceramic No. 1 on my dental wish list has always been a cast gold material that comes in a shade A2. And of course, that’s never quite been available.

So Dr. Baird mentioned this and talked about patients of his who had broken all-ceramic crowns and PFM crowns and how he was now restoring some teeth with these all-zirconia crowns. He sent us some examples, and we found this very interesting.

We have since started to make and place these full-contour zirconia crowns, which we are calling BruxZir Solid Zirconia, in employees’ mouths here at the lab. We recently made BruxZir crowns and bridges available to dentists as well.

In fact, we tell dentists that we see a number of different materials and alternatives to placing cast gold in a patient who simply won’t accept it, or the dentist wants to place a metal occlusal and the patient won’t accept it.

What we’ve been led to believe from Dr. Baird and Dr. John Sorenson is that the wear of opposing teeth is not so much related to how hard the material is as opposed to how smooth it is. And I’ve been impressed with how smooth you can actually polish full-contour zirconia.

Esthetically, you’re not going to mistake this for IPS e.max or IPS Empress—clearly it does not have the translucence of enamel and doesn’t necessarily look like a natural tooth. But neither does cast gold.

This is a new area for us, and it looks somewhat promising. I don’t know if you’ve had the chance to do any restorations like this, but what might your feelings be on a concept such as BruxZir?

Miller: I did receive something just the other day from Glidewell on these full-contour BruxZir crowns, and my knee-jerk reaction was, “Wow, what a great idea!”

Because obviously, like you just said, on that lower second molar in a patient who doesn’t have much space and you can’t reduce, you can’t get much clearance in that area.

In the old days, most of us would tell the patient, “Well, we need to do gold back there because there isn’t enough room for ceramic; you can’t reduce, you can’t get much clearance in that area.”

I think it is a great idea. The zirconia crowns that I’ve done, mainly Lava, have been tremendously successful in terms of strength, although we have had maybe one or two of the veneering porcelains chip off in certain circumstances. Especially in bruxers, regardless of whether they’re wearing their nightguards or not.

It doesn’t surprise me that Dr. David Baird would come up with this type of innovative solution. Even though he doesn’t get the amount of press as some of the other ceramic-type gurus around the world, Dr. Baird is a tremendous dentist and thinker and laboratory technician. He was way out on the bleeding edge of bonded porcelain before many of us were out of diapers, so it doesn’t surprise me that he would have that idea.

Quite frankly, I’m really excited that you guys have come out with this. After I saw that BruxZir ad, I went through my patient base, thinking about all the patients I could have done that on had I thought of it.

So, I think innovative solutions with ceramics, especially with something such as zirconia, obviously you’re not going to get the depth of color. Not unlike a monochromatic CEREC-type crown, which you can’t expect to look as good as a really nice crown made in the lab.

But as long as the patient understands the old “inform before you perform” issue and understands both the pros and cons, then I think solutions like this are great. And I applaud you guys for doing it.

Here at GNYDM
For more information on BruxZir Solid Zirconia, stop by the Glidewell booth, No. 2203.

Repair and maintain those high-speed handpieces yourself

- ProScore’s EZ Solutions offers dentists various do-it-yourself repair and maintenance options. Here are some of them.

EZ Press III and EZ Rebuild Kits
The EZ Press III™ Repair System may just be the answer to the high costs of sending out your handpieces in-house or at a lab.

XTend Ceramic Turbines and Rebuild Kits
These turbines featuring a one-year warranty and rebuild kits with a six-month warranty are manufactured with premium ceramic bearings for reduced wear, increased durability, longer life and quieter and smoother operation.

EZ Install Turbines
For an instant repair, dentists can replace turbines chairside with EZ Install™ Turbines, which are manufactured with the highest quality parts and quality assurance procedures in the market, including dynamic balancing. The result is a high-performance, long-lasting turbine.

Smart Cleaner
The Smart Cleaner is a one-of-a-kind maintenance tool that not only helps prevent residue build-up in handpieces and coupler waterlines, but also clears away obstructions if they occur. Simply connect the handpiece or coupler to the Smart Cleaner and activate the hand pump to clear obstructions and debris.

EZ Care Cleaner and Lubricant
EZ Care™ Cleaner was formulated to flush debris and remove build-up from the handpiece’s internal rotating parts, improving long-term handpiece performance and sterilization efficacy. EZ Care Lubricant has been designed to minimize bearing wear and to resist corrosion. When used together, EZ Care Cleaner and Lubricant ensure that handpieces and accessories will achieve maximum longevity and maintain optimum performance.

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.

ProScore is part of ProService, which includes ProRepair and ProService, to offer you the best fit for your repair needs.
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Put yourself on the road to success with the new CEREC® AC Connect chairside digital impression system. Delivering the fastest acquisition speeds on the market, the CEREC AC Connect now brings the fastest return on investment. And only Sirona offers you the ability to upgrade your digital impressioning unit to connect to an in-office milling unit.

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*Only in the US. Offer limited to the first 50 units purchased. Prices are subject to change without notice and do not include sales tax and freight where applicable.
Inside the CEREC AC Connect

An interview with Dr. Richard Rosenblatt

By Robin Goodman, DT Group Editor

The CEREC AC Connect debuted in early October. Would you explain what this unit is capable of?

This stand-alone unit allows one to take digital impressions only, so there is no milling component. Thus, it’s the perfect choice for the dentist who wants to take digital impressions but doesn’t want to do the milling.

How can this unit improve the day-to-day realities of running a dental practice?

The thing I love about it is its accuracy, which is fantastic. To be able to look at an impression that is 20 times its normal size, you can really see the intricacies of your preparation and not have to guess if the margins can be seen and so forth.

The restorations are extremely accurate, and the level of dentistry becomes magnificent.

I also love that I don’t have to use impression material. I don’t have to wonder if I have pulls or tears, and all those things that come along with the traditional method. If I take a bad image, I can immediately take another one. Patients love this, of course, especially if they have a strong gag reflex.

What has been the response of lab technicians who work with dentists using both the traditional and the digital method of impression taking?

The consensus has been that their digital dentists do better dentistry, and it’s more consistent on a day-to-day basis. Not only is their prep better, but also making the models for these dentists just becomes so much easier.

Is there any special being offered on this unit during the GNYDM?

In a way, it’s a special, but it’s been going on since the unit launched. This year, CEREC celebrated its 25 anniversary in August. Thus, the first 250 CEREC AC Connect units sold will benefit from a lifetime of no scan fees, and that’s the lifetime of the unit itself.

In addition, there is the option of adding a milling unit to this setup should the dentist decide later that he or she wants to do that as well. There is no other machine out there that can expand and allow the dentist to become more flexible if his interests lie in that direction.

Some dentists might be a bit intimidated trying something new. However, this unit makes it more affordable because you are not purchasing the milling unit, you can focus on the digital scanning alone.

So they can enter this realm at a much lower cost and first hone their skills before deciding if they want to undertake the milling aspect as well.

Sirona is located at booth No. 2645.
If the folks at DentalVibe get their way, their device will revolutionize the way patients feel about going to the dentist.

That’s because DentalVibe is designed to eliminate patient anxiety about pain. And with 50 percent of Americans avoiding dental care entirely out of fear over pain, the potential for increased chair time is enormous.

After studying the Gate Control Theory of pain, Dr. Steven Goldberg, a practicing dentist, invented his three-in-one injection comfort system to enable the delivery of anesthetic injections without discomfort.

The DentalVibe works with proprietary VibraPulse technology, delivering pulsed vibration while at the same time retracting the lip and cheek and illuminating the injection site. The result is a comfortable, stress-free injection.

When Dental Tribune stopped by the DentalVibe booth here at the Greater New York Dental Meeting to learn more about the product, Goldberg was enthusiastic.

“The response I am getting is so rewarding,” he said. “Dentists tell me all the time how happy they are with DentalVibe.” (He then pulled out his iPhone and played a voice message from a dentist who was thrilled with the way he was able to comfortably give a young girl her first shot.)

Dental Tribune also had the opportunity to learn more about DentalVibe from several of the company’s sales reps.

“I had a doctor in Boca Raton, Fla., do it to me,” Traci Pearl said. “I took one for the team. Not only was the injection OK, it was better than OK. This product sells itself.”

“Patients don’t always talk about it, but fear over injection pain is something they are concerned about,” Tatiana Acero said. “Nobody likes to get an injection, but when a patient goes to the dentist regularly, it is going to cost less.”

Andrea Olavarria said DentalVibe is especially useful in pediatric dentistry, where there can be two sources of distress—the child and the parent. “DentalVibe works through stress for both the child and the nervous mother,” she said.

“The DentalVibe is a home run for the doctor,” Ed Black said. “Not only is it effective clinically, it also brings in more patients, reduces cancellations and increases referrals. In fact, it is a referral monster.”

To learn more about DentalVibe, stop by booth No. 5033 or visit the company online at www.dentalvibe.com.
New financing tools bring in new patients

When patients are deciding on a dental treatment, especially an elective one, they want to know they’re getting the best services available from the dental techniques used, right down to the financing company they choose. ChaseHealthAdvance patient financing – a company that prides itself on advancement and innovation – constantly develops new ways to make patient financing easier for you and your patients.

This month the company is unveiling new financing tools that do just that.

Visit booth No. 5217 at the Greater New York Dental Meeting to learn more about ChaseHealthAdvance and to demo the iPad presentation tool and efficiency-boosting desktop toolbar.

iPad presentations: better than paper
ChaseHealthAdvance has reinvented the way you present financing options to your patients with the payment presentation tool for the iPad. This new tool takes what is normally done with printouts or scribbles on paper and turns it into a hands-on, patient-friendly presentation.

You can quickly and simply help your patients compare their financial options and monthly payments right from the iPad, making it easier for them to decide on the plan that’s right for them.

Then from the same device, they can move directly into the application process with just a few taps of their fingers, making the entire presentation and application process one fluid, less-intimidating process.

Save time with the desktop toolbar
Even with the simple online system in place, ChaseHealthAdvance has made it even easier to manage your patients’ financing needs with their desktop toolbar.

The free desktop toolbar, which is currently available for download at HealthAdvance-Online.com and a demo of which can be seen during the Greater New York Dental Meeting (GNYDM), puts everything your practice needs all in one place, right on your desktop.

You can complete and submit applications, access marketing tools, view reports and send follow-up postcards to valued customers, 24 hours a day, 7 days a week with just a few clicks of your mouse. It’s the perfect tool to help you streamline every part of the patient financing process and communicate affordability to your patients.

ChaseHealthAdvance is dedicated to developing new tools to help practices simplify their day-to-day operations and increase case acceptance. They do this with free enrollment for providers, one-on-one customer service and access to valuable marketing tools like the free web-based payment calculator.

With a wide range of financing options and tools to choose from, more patients can overcome the financial barriers standing in the way of the dental treatments they’ve always wanted.

ChaseHealthAdvance offers 3-, 6-, 12-, 18- and 24-month no-interest plans and extended options up to 48 months. There are no down payments required and every approved patient receives a $5,000 revolving line of credit that can be used for the entire family’s health care needs.

In addition, because ChaseHealthAdvance is part of Chase Card Services, a division of JPMorgan Chase & Co., you and your patients will benefit from the strength and stability of more than 200 years of financing experience.

To learn how the new iPad presentation tool and desktop toolbar can help you boost productivity and save time, visit booth No. 5217 at the Greater New York Dental Meeting. While you’re there, you can also enter to win great prizes.

Be sure to register for these informative sessions for more ideas on how you can improve your practice. For example, Dr. Neil Gottehrer and Dr. Jack Martin conducted a half-day seminar on “Managing the Oral Body Inflammatory Connection for Improved Health” on Sunday.

You can pick up your free copy of Gottehrer’s resource guide at the ChaseHealthAdvance booth, No. 5217.

Susan Richardson of ChaseHealthAdvance will be conducting an informative practice management course, “Money Shouldn’t Be the Barrier to Case Acceptance,” on Tuesday, Nov. 30, from 9:45-10:45 a.m. on Exhibit Floor 2, Rear Aisle 2300.

Learn even more at the lunch and learn session, “The Future of Dental Care: Maintaining Physical Health,” sponsored by ChaseHealthAdvance. The session will also be held on Tuesday, but will take place at Special Events Hall, Level One from 10 a.m.-12:30 p.m.

Admission is free and lunch is included.

Stop by the ChaseHealthAdvance booth to learn more about the wide range of financing options and tools that ChaseHealthAdvance offers to help you advance your patients and your practice or speak with a practice consultant today by calling (888) 388-7633 or by visiting AdvanceWithChase.com.

*The information in this article was provided by ChaseHealthAdvance and is only directed to health-care providers, or a business entity, and is not meant to be shared with patients directly or indirectly.*
Lang Dental digs into its past

Company talks about why now is a good time to reintroduce its soft denture liner

By Robin Goodman, DT Group Editor

Samuel Lang founded Land Dental Manufacturing in 1929 to provide the dentists of his era with dental materials. The company’s acrylic products have had international distribution since 1958.

today sat down with David Lang, president of Lang Dental, to get the more information about the company’s Jet Set-4 and NOVUS products.

What’s new at Lang Dental?
We are reintroducing NOVUS, a product that was on the market many years ago. It’s a definitive, soft denture liner that is non-porous and contains no plasticizers, so it won’t degenerate and thus lasts for the life of the denture.

Unlike acrylic resin or silicone-based materials that are used for soft denture liners; this synthetic rubber is bio-inert, hydrophobic — meaning it repels water — and it does not promote microbial growth.

“This synthetic rubber is bio-inert, hydrophobic — meaning it repels water — and it does not promote microbial growth”

Why did the product disappear from the market?
The source of the raw ingredients that went in to making this material was taken off the market. Synthetic rubber was primarily used in aeronautical and space applications. When those budgets were cut back, the production of this material was discontinued in the mid-1990s.

Thus, because it is available again, we are reintroducing Novus into the market but using its original formula.

I’m looking at a sample now, and it’s cool. Was that a soft-sided cooler you just removed it from? And is this padded silver mailer its only packaging?
Yes, that was a cooler; the material needs to be kept cold.

What other products does Lang Dental offer?
We’re best known for our temporary crown and bridge products. We have a product called Jet Set-4, which is an improvement in that it is a faster-setting methyl-methylacrylate material. It was introduced several months ago and is doing quite well. It’s similar to our original jet acrylic, except that it sets much faster.

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Visit Leica Microsystems at booth #5304 to find out more and receive a consultation from a board certified D.D.S. or call 800-348-0123!

Living up to Life
Dentrix Enterprise gets an update

Upgraded software broadens electronic dental record integration with leading medical systems

Henry Schein, the largest distributor of health care products and services to office-based practitioners, today announces the release of Dentrix Enterprise 5.0, the latest version of Henry Schein's dental practice management system for multi-site organizations, institutions, hospital-based dental clinics, public health facilities and Indian Health Service locations.

Dentrix Enterprise is also a leading electronic dental record solution used in community health centers in the United States.

The latest 5.0 release of Dentrix Enterprise includes new features that strengthen Henry Schein's support of two U.S. government initiatives: the U.S. Department of Health and Human Services' strategic goals to improve patient care to the medically underserved communities with cutting-edge technology and tools.

The new release provides dentists with a "Caries Prevalence and Periodontal Index" report module that generates patient outcome data for various age ranges and information, such as number of patients with or without caries. Other outcome data reports include patient periodontal measurements, such as pocket depths and loss of attachment.

The new 5.0 software also features a new treatment planner module that details the procedures, visits, insurance estimates and totals for a complete treatment plan.

"Dentrix Enterprise provides community health centers with cutting-edge health information technology to deliver improved patient care in underserved rural populations," said Steve Roberts, president, Practice Technologies at Henry Schein.

"With this new software release, Henry Schein increases its support of the U.S. Department of Health and Human Service's 'ACCESS for All America Plan' to help community health centers expand and improve their service to 30 million patients by the year 2015."

More than 1,400 clinics in North America use Dentrix Enterprise.

Launched nearly 20 years ago, the 5.0 release of Dentrix Enterprise is designed to upgrade the software to 5.0, providing new features and improved functionality.

The NOMAD X-ray system is designed to improve patient care and reduce radiation exposure.

The NOMAD is the world's first handheld X-ray technology, announced Sept. 29 that its NOMAD handheld X-ray machine has been named as a runner-up in the medical device category of the 2010 Wall Street Journal Technology Innovation Awards.

The award recognizes products that break from conventional processes.

"We are very pleased by this honor," said D. Clark Turner, PhD, president and CEO of Aribex. "This is our first national innovation award, and it feels great that our seven years of hard work and focus has paid off so successfully. We also appreciate being listed with the other highly notable companies that have received this distinction."

The journal reports receiving nearly 600 applications from companies, organizations and individuals in 30 countries. Following a review from the publication's editors, about 275 entries were forwarded to a panel of judges from research institutions, venture-capital firms and other companies, and 49 entries were finally chosen for awards.

The NOMAD is the world's first handheld X-ray for dental use. Unlike the old-fashioned concept of wall-mounted X-ray systems that dentists have traditionally used, NOMAD represents a new approach: it's handheld, cordless and can go anywhere.

"Previously, taking an intraoral X-ray of a child has been a hit-or-miss affair because children often will not sit still and will move their heads while the X-ray is being taken. This results in a retake and additional radiation exposure to the patient."

Now the operator can stay with the child, comfort anxious patients and take the X-ray when the child is ready. This has also been of great value with special needs patients, such as those with Alzheimer's, Parkinson's disease and physically or mentally limited individuals.

The NOMAD hand held X-ray (Photo/Provided by Aribex)

The NOMAD X-ray system requires no bulky arms, backing plates for walls, special cabinets or costly electrical hookups. In fact, no installation is needed other than plugging in a small recharger unit.

Because it easily moves from treatment room to treatment room, one NOMAD can take the place of several conventional wall-mounted X-ray units in a typical dental office environment, saving dentists money when purchasing capital equipment.

These innovations also allow X-rays to be taken without moving the patient, so patients in wheelchairs, for example, do not have to be moved to the dental chair. Bed-ridden patients with dental issues can now have care on a level that was previously not possible. Sedated patients in oral surgery now can be X-rayed without being repositioned.

NOMAD receives WSJ Technology Innovation Award

Here at the GNYDM

For more information, stop by Dentrix at the Henry Schein booth, Nos. 1015/1023/1417/1420.

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The NOMAD has also been used in humanitarian missions around the world, going where traditional X-rays could never previously go.
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Reduce schedule stress with SmileReminder

By Rachel M. Fisher, RDH, CareerFusion

Perhaps you have heard the following comments: “I do the same thing every day with the schedule and nothing changes!” or “I am so frustrated that I only have one person on call at a time. We need to have another front desk person, I am so overwhelmed!”

Let’s find a way to work smarter, not harder, and let’s start by looking at the imaginary day of Olivia Office Manager. She gets to work early and immediately checks the answering machine for messages. Hearing several people have cancelled, she sighs and thinks, “Oh no! How will I ever fill the schedule?”

She quickly starts calling patients on the short list only to find she is either waking people up or not reaching them at all because they are already at work. Even more frustrating, it takes more than a minute to leave a message on just one person’s phone and she immediately knows who has confirmed, who isn’t coming and who needs to be called. After realizing several openings that need to be filled, she enters the appointment parameters and, instantly, all the patients who fill the criteria are sent an e-mail and text letting them know the time available.

Her stress is reduced and now, instead of chasing patients, she is answering the phone when they call her. Her dentist is very pleased when an appointment for two fillings that needed to be rescheduled is replaced with a patient who needs a crown. Suzy saves the day!

Smile Reminder is a media partner of CareerFusion, which is where Suzy found out about the massive benefits of having a system like that. She likes to tell of a day of potential disaster. Her computer and server were completely down due to a natural disaster. The office was up and running but what to do? Who was coming in today and for what?

Thankfully, staff members can pull up the next 90 days of schedules online from any Internet connection (with secure sign in). It’s not the same as having her practice software up and running, but at least she has the ability to contact patients and know how they are scheduled.

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A famous quote reads, “The definition of insanity is doing the same thing over and over and expecting a different result.” How true this can be in dentistry.

We can be very comfortable with our routine, but by making some adjustments, our work lives can be much more profitable, more comfortable and less stressful. I was impressed how easy Smile Reminder could reduce the stress in my practice.

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Offer pediatric patients a ‘NuSmile’

Esthetic crowns provide a durable restoration for decayed primary teeth

By Sierra Rendon, DT Editor

NuSmile offers practitioners easy placement of esthetic stainless steel crowns for children, said CEO/President Diane Johnson Krueger.

“Stainless steel crowns have always been the restoration of choice for ease and durability for children whose teeth are affected by early childhood caries (ECC), but parents and doctors have never been happy with the esthetics of these restorations,” she said.

NuSmile was first introduced in 1991, and though other companies have similar products, Krueger said the company is set apart by its quality and durability.

“There are a few other companies that have similar products, but NuSmile has performed with consistently higher results in laboratory studies that measure things such as fracture and fatigue resistance, color stability and wear,” she said. “Also, in two separate surveys of pediatric dentists, more dentists preferred NuSmile crowns than any other esthetic pediatric crowns offered.”

Dentists can quickly learn the NuSmile technique for properly fitting crowns.

“The technique for placing NuSmile crowns differs a bit from the technique for placing standard stainless-steel crowns,” Krueger said. “We have a great instructional DVD with actual patient cases that demonstrates exactly how to prepare the tooth and seat a NuSmile crown. We are offering this DVD as a show special at the Greater New York Dental Meeting.” Additionally, practitioners have the opportunity to receive a 10 percent discount on orders taken at this meeting.

NuSmile crowns are offered for both anterior and posterior deciduous teeth. “There are currently two shades offered; they are sold in kits and individually with no minimum order,” Krueger said.

What’s the main thing to remember when considering NuSmile crowns?

“Easy placement, not technique sensitive like a strip crown. Full coverage protection of remaining tooth structure, just like a stainless steel crown,” Krueger said. “Good esthetics for many years; these crowns are extremely durable … more so than strip crowns or any other esthetic coated crowns available.”

“Our company is dedicated to beautiful, healthy smiles for all children. NuSmile anterior and posterior crowns are anatomically correct, stainless-steel crowns with the most natural-looking, tooth-colored facing available.”

Here at the GNYDM

For more information about NuSmile primary crowns, head over to booth No. 2007. You can also call (800) 346-5133 or check out the website at www.nusmilecrowns.com.

Diane Johnson Krueger, CEO of NU SMILE Primary Crowns (booth No. 2007), left, and Miki Tiedt, RDH. (Photo/ Fred Michmershuizen, DT Editor)
Electrical caries detection and monitoring

By Nigel Pitts FRSE, BDS, PhD, FFDP(UK), FFPH, Fay Goldstep DDS, FACD, FADE and George Freedman DDS, FAAAD, FACD

The concept of examining teeth for caries using an electrical signal dates back to the 1950s. A major technological advance came in 1996 when Nature Medicine reported the first use of multiple electrical frequencies, using a method known as the AC Impedance Spectroscopy Technique (ACIST), being applied to caries detection in the laboratory setting. The use of variable frequencies allowed a major step forward in characterizing the status of the dental hard tissues more accurately and being able to differentiate between both health and disease more clearly.

Although these breakthroughs laid the foundation for a clinical device, it took many years of work to move from a large laboratory stack of computerized instrumentation to a regulatory-approved, battery-powered, handheld device.

In the late 1990s, a number of developments using optical methods were applied to the clinical caries detection problem. These included the use of a popular laser fluorescence system.

Optical detection methods suffered from a number of inherent limitations; although better at finding dentinal lesions and cavities than conventional visual and radiographic methods, they were inherently less able to detect early lesions and gave rise to a number of false positive readings, particularly in the presence of staining.

A further problem emerged with an evaluation of the influence on performance of autoclaving the reusable optical tips. Consecutive sterilization of probes in autoclave altered readings, often downgrading its performance.

Development of the CarieScan Pro Device

The laboratory work on the variable frequency ACIST method of electrical caries detection and monitoring has now been translated into a small, ergonomic and easy-to-use clinical device produced by a Scottish company called CarieScan (www.cariescan.com). The miniaturized technology has been tested with clinicians to develop a clinically useful and easy-to-use aid to caries detection and monitoring.

The steps in the development process have included:

- Demonstrating the clinical ACIST method to superior detection performance to optimal clinical visual, bitewing radiography and laser fluorescence methods for evaluating early lesions.
- Recognizing it is desirable to build in a balance between decreased specificity and improved sensitivity to improve diagnostic accuracy in a clinical ACIST. CarieScan Pro displays results with symmetrically high values for both sensitivity and specificity.
- Detecting so-called “hidden dentinal caries” (surfaces that are apparently sound clinically) and radiographically, found radiographically or operatively to have significant internal dentinal spread of caries. The device was able to detect 31 percent of all the hidden dentine lesions not detected by optimal clinical visual assessment and 100 percent of deep hidden dentine lesions.

But how do you determine whether a tooth is carious or simply stained? If carious, how long will preventive procedures suffice and when is it time to intervene and restore?

And how do you apply these treatment parameters guided by the evidence-based data?

The CarieScan PRO permits dental professionals to evaluate decay in teeth and provides information about whether the tissue is healthy, in the early stages of decay or already significantly decayed.

The diagnostic process is simple: Place the grounding hook on the patient’s finger or lip. Air dry the tooth site. Hold the battery-operated sensor against the tooth to be examined. A very low current (undetectable to the patient) is passed through the tooth. This current encounters various levels of impedance in the tooth, dependent upon its condition.

The blue LED light flashes and is then followed by four audible beeps. The diagnostic results are displayed both on the LCD screen and the color LED display. The entire process takes four seconds.

The clear numeric information is easily documented into the patient’s chart to monitor and assess disease status and progress (or improvement). Infection detection is simplified by single-use disposable sensors. Thus CarieScan offers clear, dependable, caries detection in seconds.
What You Don’t Know May Hurt Your Patients
THE OSA-TMD CONNECTION

Hundreds of millions of people of all ages around the world suffer from deadly obstructive sleep apnea; from infants to elderly. Obstructive Sleep Apnea (OSA) has been linked to Cardiovascular Disease, Cerebrovascular Insult, Endocrine Disorders and Obesity and our medical colleagues are asking for our help, NOW! OSA is considered a disease of craniofacial anatomy so the ONUS is on dentists to identify and help manage OSA sufferers.

NEW AT LVI

Level 1: Dental Sleep Medicine Foundations
This three-day introduction to evidence-based Dental Sleep Medicine is designed to prepare dentists and their teams to confidently identify, refer and help co-manage patients with snoring and deadly obstructive sleep apnea. Participants will have the opportunity to learn about the relationships between sleep breathing disorders, neuromuscular dentistry and health. They can discover how to get started, immediately expanding their diagnostic acumen and scope of practice.

Instructed by LVI Faculty member, Dr. J. Brian Allman

Visit www.lviglobal.com for complete instructor and course information.

December 15-17, 2010

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Predictable orthodontic IPR made easy

By Brian J. Gray, DDS

Baby boomers seeking ways to look as young as they feel have embraced Botox, liposuction, collagen enhancement and facelifts in recent years. Dentistry has also played a role in providing a youthful appearance with whitening, veneers and orthodontics. Many adult orthodontic cases involve relapse of previous treatment and minor crowding.

Ultimately, there are five ways to address crowded arches: distalization, buccal expansion, anterior proclination, extraction and interproximal reduction or IPR. By removing small amounts of enamel in between teeth via IPR, significant space can be created.

For instance, removing 0.3 mm from each contact point between the lower canines will yield nearly 2 mm of room for tooth movement. IPR has been around since the advent of adult orthodontics and is a safe, proven modality. Many practitioners, though, are reluctant to perform IPR for various reasons. Inability to remove accurate amounts of tooth structure, access to proper reduction areas and patient discomfort are often cited as concerns.

Difficulties have been addressed with a new kit developed by Drs. David Gates and Brian Gray for Axis Dental, making IPR a quick, accurate and pleasant procedure for the clinician and patient alike. The kit is comprehensive in nature, allowing for proper enamel reduction in difficult areas.

The All Inclusive IPR set offers both manual and mechanical solutions and includes a super thin perforated disc for breaking initial contact, various grit (.08, 0.1 and 0.13 mm) abrasive strips, curved shaped GwikStrips™, Ortho-Strips and interproximal measuring gauges. The kit also contains a laminated clinician’s reference guide with easy-to-follow steps for proper IPR.

In addition, Axis Dental has produced an instructional video that will quickly prepare a novice via hands on live patient demonstrations.

The key difference between Axis’ All-Inclusive IPR Kit and others is the offering. The kit allows the dentist to develop his or her level of proficiency, from manual to mechanical, based on his or her level of comfort.

One of the flagship products in the kit is the Ortho-Strips. Used in a reciprocating handpiece with water irrigation, Ortho-Strips painlessly and efficiently removes interproximal tooth structure without causing irreversible “leading” found with regular diamond discs.

The kit also allows the practitioner to recreate the natural anatomy of the teeth found prior to IPR. By following the clinician’s reference guide, a nascent dentist will quickly gain confidence and speed, resulting in less chair time. I have found that the Axis All Inclusive IPR set reduces a typical 20 minute IPR appointment down to as little as eight minutes.

Patients will also appreciate the gentle polishing motion associated with the reciprocating Ortho-Strips.

Sunflex Partials: Resin formula guarantees a perfect fit

Sunflex® Partials are considered one of the finest solutions in partial denture treatment available today, according to Sun Dental. Prescribed by thousands of dentists worldwide, Sunflex has a good degree of flexibil- ity, is denser and more stain-resistant than other flexible partials and does not warp, discolor or become brittle.

Sunflex Partials are made of a specialized form of nylon in the family of Superpolymides, a very pure nylon that is resistant to chemical deterioration and is virtually unbreakable. Uniquely formulated, the biocompatible resin provides flexibility and translucency, guaranteeing maximum comfort and enhanced esthetics.

After processing, Sunflex remains translucent and readily adapts to a variety of natural tissue shades. The resin is available in five different tones, and complimentary shade guides are available upon request.

Sunflex is guaranteed for life against breakage and provides compressive, impact and bending strength. It can be used as a bilateral or unilateral denture and, according to Sun Dental, is an excellent implant healing partial.

For cases with a free end-saddle or where the anterior teeth are missing, it can be used in combination with metal framework for enhanced stability.

According to the company, the benefits of Sunflex go beyond the patients’ experience, and its distinct physical properties make it one of the most “dentist-friendly” flexible partials available. Sunflex must be immersed in very hot tap water for about two minutes prior to insertion and placed in the patient’s mouth once cooled to a tolerable temperature. Clasps can be bent inward or outward for the perfect fit.

Sunflex has great memory and will retain its position once cooled.

Here at the GNYDM

Check out the All Inclusive IPR Kit at the Axis Dental Booth, No. 4632.

About the author

Dr. Brian J. Gray is an active member of the American Dental Association. He is a master in the Academy of General Dentistry and a fellow in the International Congress of Oral Implantologists. Gray also is a continuum member of the L.D. Pankey Institute and mentor and board member of the Texas Institute of Advanced Dental Studies. A number of companies and non-profit research facilities rely on his input in product evaluation, research and development. Gray is a consultant and No. 1 certification speaker for Align Technologies, manufacturers of the Invisalign® appliance. He has certified more than 8,000 doctors in this technique.

Contact

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Sunflex Partials (Photo/Provided by Sun Dental Labs)

Here at the GNYDM

For more information, contact Sun Dental Labs at (866) 561-9777, online at www.sundentallabs.com or stop by the booth, No. 5031.

If chairside adjustments are necessary after the insertion procedure, they can be made without gumming or flaking of the material with Sunflex Tool Kit, a set of burs especially designed for the Sunflex thermoplastic resin. Besides easy in-office adjustability, teeth and clasps can be added at a later time without demarcation lines.

Although relatively infrequent, because of its ability to adapt to subtle changes in the mouth, the partial can also be relined or rebased in the laboratory.

Understanding the distinctive features of Sunflex in comparison to other partial dentures, and how they translate into preparation procedures and adjustment techniques, is vital to the success of a Sunflex case.
A solution to dentin hypersensitivity

Colgate Sensitive Pro-Relief Desensitizing Paste with Pro-Argin technology provides instant relief to sufferers

- Colgate-Palmolive, a world leader in oral care, has introduced a major advance in the treatment of dentin hypersensitivity, the in-office Colgate® Sensitive Pro-Relief™ desensitizing paste with Pro-Argin™ technology.

Dentin hypersensitivity is a highly prevalent condition, affecting up to 57 percent of people worldwide. Cold air, a hot drink or a sweet dessert can trigger acute sensitivity pain. Likewise, the touch of a dental instrument can make routine visits very uncomfortable. This discomfort may lead sensitivity sufferers to avoid regular check-ups — neglect that can result in a progression of oral-care problems.

Colgate's exclusive Pro-Argin technology is comprised of an amino acid, arginine, and an insoluble calcium compound, calcium carbonate, to seal open dentin tubules and help block stimuli of pain receptors within teeth. Latest research suggests the Pro-Argin technology binds to the negatively charged dentin surface and helps attract a calcium-rich layer into the dentin tubules to effectively plug and seal them.

The Pro-Argin technology triggers occlusion of the dentin tubules, an occlusion that remains intact even after exposure to acids, helping to block pain-producing stimuli.

Colgate Sensitive Pro-Relief desensitizing paste is clinically proven to provide instant sensitivity relief that lasts for four weeks after a single application. It can be used before or after dental procedures, such as prophylaxis and scaling.

When applied prior to a professional dental cleaning, the desensitizing paste will provide a significant reduction in dentin hypersensitivity measured immediately following the dental cleaning as compared to a control prophylaxis paste.

References

BrightSquid Dental Link improves communication between dentists, dental labs, and the patient by centralizing information relevant to treatment. Using collaborative web technologies all caregivers can view, annotate, and comment on the treatment; directly improving the quality of patient care.

BrightSquid integrates with most dental practice management and laboratory systems, resulting in efficient end-to-end collaborative communication. Advances in Brightsquid collaboration technology means a reduction in errors, allowing for more productive time and greater patient satisfaction.

Here at the GNYDM
For more information or to try the Colgate Sensitive Pro-Relief for yourself, stop by the Colgate booth, No. 4033.
allow them to improve patient care. Dental Tribune combed through the aisles here at the GNYDM to see what is new, different and exciting. There is plenty to investigate.

Here are a few highlights, out of the many offerings available this week, that dentists might consider adding to their arsenal:

• Dentsply Pharma (booth No. 2603) is offering Oraqix, a needle-free pain relief system for scaling and root planing. Packaged in convenient, individual usage kits, the product is ideal for quadrant scaling, full-mouth periodontal procedures or periodontal maintenance. The numbing effects last for 20 minutes and only the intended treatment area is anesthetized.

• PureLife Dental (booth No. 2204) is offering a number of eco-friendly products, including latex and non-latex gloves, amalgam separators and waste compliance solutions.

• Ashtel Dental (booth No. 723) is offering a number of products, including the Brush Buddies talking toothbrush, designed to make oral hygiene fun for kids.

• Also for kids, Beetling Design Corp. (booth No. 1911), a new exhibitor here at the GNYDM, is offering three-dimensional wall décor.

• EMS/Electro Medical Systems Corp. (booth No. 5521) has the AirFlow Master subgingival prophylaxis unit, the miniMaster Piezon scaler, and many other products.

• Hu-Friedy has set up its booth (No. 1403) as a “comfort zone,” offering hand massages and information about the company’s Hand Essentials infection control products.

• ChaseHealthAdvance (booth No. 5217) is offering patient financing options that can make treatment affordable for many patients. Each patient who is approved for the program receives a minimum of $5,000 in credit toward dental care.

• BleachBright (booth No. 5625) is offering a chairside teeth-whitening system that is designed to get patients excited about their smile. According to the company, the product can improve teeth by eight shades in one 30-minute session.

• Endodontic supplies, including Roydent C-Files, Endo-Cleanse and C.L. Canal Lubricant, are available from Roydent Dental Products (booth No. 4004).

• At VOCO America (booth No. 4623), offerings include Profluorid L synthetic resin matrix, Grandio Flow nano hybrid composite filler and many other products.

Many companies are offering show specials or giveaways and a number of others, including Invisalign (booth No. 4420), Gendex (booth No. 4017) and Dextra (booth No. 4007) are offering educational opportunities right in their booths on the show floor.

For meeting attendees, there is still plenty of time to explore. The exhibit hall is open through Wednesday.
NEW!

The Alginator
The perfect alginate mixer

Features:
- A single mixing speed for a perfect, bubble-free mix every time
- Perfect portability and ergonomics
- A sleek design that will perfectly complement any operatory

Visit our booth at GNYDM #4215

Visit www.duxdental.com/alginator to view a demo of the product in use.

Contact your DUX Dental representative for more information.
1.800.833.8267 | www.duxdental.com

Alginator........... REF 25227
Hand hygiene product line protects and soothes

Hand hygiene has received a lot of public attention in recent years, fueled by the H1N1 pandemic and fear of “superbugs” such as MRSA. According to the Centers for Disease Control and Prevention, the No. 1 way to prevent the spread of infection is hand hygiene.

The message to health-care workers is direct and unwavering: Wash your hands, a lot. But for dentists, hygienists and office staff, the price for frequent hand hygiene is often chronically dry and irritated hands.

To combat this problem, Sultan Healthcare offers Moist SURE™ — a complete line of hand hygiene products designed exclusively for dental practices. The line offers professional-level protection but without the irritating side effects of frequent hand washing. The product line consists of:

- **Moist SURE Liquid Sanitizer**: A powerful, 63-percent isopropyl alcohol sanitizer that’s clinically proven to moisturize but is also a lotion. It is the only brand for dental practices that kills MRSA and VRE in five seconds.
- **Moist SURE Foaming Sanitizer**: A 62-percent ethyl-alcohol foaming sanitizer that’s as effective as 4 percent chlorhexidine-glucogluconate surgical scrub, yet so gentle it keeps skin hydrated for up to two hours after application.
- **Moist SURE Lotion Soap**: A smooth and soft, antimicrobial, healthcare personnel hand wash that contains 0.5 percent triclosan. Its clinically mild formulation has a pleasant, light fragrance.
- **Moist SURE Foaming Soap**: A clinically mild, foaming, healthcare personnel hand wash with 0.75 percent triclosan. Its performance is comparable to a 4 percent chlorhexidine hand soap.
- **Moist SURE Lotion**: A skin conditioner with a long-lasting moisturizing effect, even through several hand washes.
- **Moist SURE Automatic Dispenser**: A touch-free, contained dispensing system that minimizes cross contamination. (For use with both Moist SURE Lotion Soap and Moist SURE Liquid Sanitizer.)

What makes Moist SURE unique, according to Lorencovitz and the product’s substantial clinical data, is that it offers the efficacy dental workers need, but without the drying effects of many products available on the market. Moist SURE soaps and sanitizers meet FDA-proposed requirements for a health-care personnel hand wash.

In addition, all products have been clinically tested for mildness to the skin — with Moist SURE Liquid Sanitizer having moisturization properties equal to that of Vaseline® Intensive Care Hand Lotion.

“In essence, you have all the protection of an alcohol-based sanitizer, but in a formula that’s proven to moisturize as well as a hand lotion,” said Lorencovitz. “The feedback we’re getting is extremely positive. People can feel a difference as soon as they put it on their hands.”

For those who have to scrub and sanitize all day for their jobs, that’s welcome news.

Free samples of Moist SURE are available at www.MoistSUREsample.com. The entire Moist SURE line is available exclusively through dental dealers.

Moist SURE is just one of Sultan Healthcare’s complete cycle of infection prevention products, designed to help protect dental workers before, during and after patient treatment. To learn more, visit www.sultanhc.com.

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**FENDERWEDGE**

Directa’s new generation of protective wedges protects adjacent teeth during the preparation of Class II fillings to avoid the problem of iatrogenic damage to teeth caused by accidental contact with the bur.

“Bur damage to neighboring teeth is a common problem in everyday dental practice. Research shows that teeth are damaged in more than two-thirds of cases during the preparation of teeth for Class II fillings when a regular bur is used.”

The new FenderWedge is a combination of a plastic wedge and stainless steel plate that prevents any contact between the bur and tooth during preparation and other similar procedures. It is easily inserted from the side, helping to ease the teeth apart before the insertion of a matrix, and stays in place during the entire procedure.

The protective plate itself is highly resistant and fully protects adjacent teeth during preparation, the company said.


For more information, visit Directa AB online at www.directadental.com or stop by the booth, No. 1511.
The ABC Wedge makes restoring missing cusps easy when using sectional or Tofflemire matrix systems. It is all too frequent that excessive decay results in fractured cusps. Previously, the only alternative was a Tofflemire band with a screw retainer, creating difficulty in restoring a tight, biomimetic contact.

The ABC Wedge supports the band allowing placement of sectional rings. When inserted from the buccal and lingual the wings supports the band, secures the matrix to the gingival floor and the wedges' v-shaped notch aligns the ring for maximum separation ensuring tight contacts. Visit Danville @ Booth #3824 to learn more!

Learn how the ABC Wedge can change your approach to the most difficult missing cusp cases at GNYDM

Lecture: Dr. Mark Gottlieb, DDS
Date: Monday, Nov. 29th
Time: 12:50PM - 1:10PM
Location: Aisle 6000, Rm. 3
A Special promotion will be provided by Danville for all who attend Dr. Gottlieb's lecture.

www.danvillematerials.com
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DEFE ND DISPOSABLE DRINKING CUPS

Mydent International has introduced DEFEND® Disposable Drinking Cups, the latest in its line of DEFEND disposable products. The recyclable, disposable DEFEND drinking cups offer dental and medical practices a cost-effective way to follow infection control procedures while maintaining “green” practices.

“While many practices today are looking for ways to reduce and reuse, it is still imperative to follow infection control procedures to avoid cross-contamination and the spread of viral and bacterial strains,” said Andy Parker, president and CEO of Mydent. “That’s why we offer superior yet cost-effective disposable products, such as our DEFEND drinking cups, for those offices that use disposable supplies as much as possible to avoid potential infections.”

DEFEND drinking cups have an embossed design that provides greater strength and improved gripping. This also makes dispensing much easier as “sticking” associated with less-durable cups is eliminated.

Offering a high-gloss finish, DEFEND drinking cups are available in five colors: green, lavender, mauve, blue and white. DEFEND disposable drinking cups are packaged in cases of 1,000.

Mydent International, home to DEFEND infection control products, disposables, and impression material systems, celebrates 25 years of providing dependable solutions for definitive health care.

For more information on Mydent International and the DEFEND brand of products, call (800) 275-0020, visit www.defend.com or stop by the booth, No. 2609.
ZYTREL XP

Zytrel XP™ is the first sanitizer/moisturizer that lasts up to four hours and locks in your body’s own natural oils in combination with special moisturizers and emollients for a luxurious feel. Zytrel XP kills 99.99 percent of germs while improving your skin’s feel and appearance with repeated use. Zytrel sanitizers complement and exceed Centers for Disease Control and Prevention (CDC) standards for clean hand hygiene and are tricloban-free.

For more information, contact Plak Smacker at (800) 558-6684, visit www.plaksmacker.com or stop by the booth, No. 5009.

ELEVANCE DENTAL CHAIR

Midmark announces the availability of its newest chair for the dental office, the Elevance Dental Chair. Years of research and development yielded a patient chair that is a genuine departure from any chair on the market today. With its unique Cantilever Forward™ design, advanced hydraulic system and the fully integrated heat and massage option, the Elevance chair delivers optimal patient access and comfort.

Unobstructed access to the patient’s oral cavity is crucial for a dentist to maximize performance and maintain an ergonomically correct working position.

The Elevance chair has a unique backrest that is thin and narrow and cradles patients. Providing an unprecedented range of travel, the Cantilever Forward design brings the patient to the clinician. Starting at a low seat height of 15 inches and extending to a seat height of 34 inches, the chair accommodates a broader range of operators and offers greater flexibility whether seated or standing.

The Elevance chair has multiple features that were created to relax the patient and provide comfort during lengthy procedures. The sculpted headrest, advanced lower lumbar support and two layers of foam offer increased support. The patented, integrated armrests and cast aluminum backrest deliver a comfortable secure patient regardless of size.

The advanced hydraulic system delivers smooth, responsive operation while supporting patients weighing up to 450 pounds. The optional SerenEscape™ heat and massage system offers patients a massage, while lumbar heat warms muscles for further relaxation. The patient’s personal preferences are easily controlled with a remote hand control. Settings include high and low heat, three different massage patterns and adjustable speed and intensity.

Midmark has also expanded upholstery options to include limited seams Ultraleather upholstery as well as two-toned plush upholstery that allow customers to personalize their office.

Expanded upholstery color selection now includes 20 standard Ultraleather colors and 12 Royal Hampton seamless vinyl colors.

For questions regarding this new product, please contact the Midmark Dental Customer Service department at (800) MIDMARK, visit midmark.com/elevance or stop by the booth, No. 217, during the GNYDM.