"Clinical education is key to us. Providing dental professionals with essential knowledge is one of our main goals"

By Dr. Dobrina Mollova

DUBAI, UAE: Dental Tribune MEA had the pleasure to interview Don Casey, CEO of Dentsply Sirona and Walter Petersohn, CCO of Dentsply Sirona during their visit to Dubai recently. The interview took place at the beautiful Dentsply Sirona office in Business Bay which is equipped fully to provide outstanding training to dental professionals from around the Middle East region.

Dr. Mollova - DTMEA: A warm welcome to the Middle East. Is this your first-time visiting Dubai, particularly the Dentsply Sirona Office – Middle East?

Don Casey: Yes, this is my first visit to Dubai. The Dentsply Sirona office here is beautiful, showcasing our products and offering outstanding training facilities to our customers. We really appreciate the partnership that we have with CAPP in terms of focusing on clinical education. It is a team effort to help dental professionals practice with new equipment in new ways.

"Clinical education is key to us. Providing dental professionals with essential knowledge is one of our main goals"
CEREC Primemill makes excellence easy

CEREC takes another big step forward with the introduction of CEREC Primemill, a brand-new grinding and milling unit from Dentsply Sirona.

By Dentsply Sirona

Fabricating chairside restorations is about to get easier and significantly faster. Thanks to state-of-the-art technology, a wide range of restorations can now be manufactured with more speed and outstanding results. Together with CEREC Primescan and the CEREC Software, CEREC Primemill forms a modern setup for achieving predictable results with a completely new chairside experience—both for the user and patient.

CEREC Primemill, Dentsply Sirona’s new grinding and milling machine, produces impressive restorations with precise margins and a highly smooth surface which results from the high-speed setup with two spindles and four motors. CEREC Primemill features a powerful 7-inch touch interface, an integrated camera for scanning blocks with computable data matrix code and an RFID scanner for reading tool information. It also works with a wide range of materials. The new design offers significantly smoother operation.

‘CEREC Primemill is a real game changer in the whole workflow,’ said Dr. Gerhard Fledel, dental practitioner in Munich (Germany) and key opinion leader for Dentsply Sirona. ‘Everything works significantly faster than before, the quality of the restorations is convincing due to the very fine margins and smooth surfaces, and handling is more simple than before: the team can provide perfect support and thus accelerate the entire workflow to make it even more pleasant for the patient.’

Guided operation for maximum convenience

When developing the new CEREC Primemill, special attention was paid to its user-friendliness. The large touch interface guides the user throughout all workflow processes. Each workflow step is displayed in order and shows, for example, which tools are used for the selected material and which option is selected. The tools are outfitted with a color code depending on the material to be processed and are therefore easy to distinguish. Each tool also contains a small radio frequency identification (RFID) tag that can be read by an integrated scanner in the CEREC Primemill. The machine informs the user about the tool’s status and if or when it should be replaced with a new one. The new user guidance makes it even easier to delegate the operation of the machine.

For additional convenience, material blocks with a compatible data matrix code can be scanned with the integrated camera. With this the block information including type, size, color and zirconia enlargement factor are recorded. The unit’s LED light strip also informs the user about the unit’s status including a moving blue arrow and zirconia enlargement factor, which results from the high-speed setup with two spindles and four motors. The unit’s LED light color and zirconia enlargement factor are recorded. The unit’s LED light color and zirconia enlargement factor are recorded. The unit’s LED light color and zirconia enlargement factor are recorded.

The results speak for themselves. Using newly developed, very fine tools (5 to 10 mm) in the Extra Fine milling mode, the unit achieves a high level of detail for occlusal fissures as well as interdental areas on bridges, enabling users to achieve predictable, first-class results.

Superior chairside experience

The entire CEREC system takes on a new dimension with CEREC Primemill. For those customers who now want to step into the chairside CAD/CAM world and want to use CAD/CAM technology in their practice, with the all-new CEREC Primemill they get a full system with great flexibility for reliable results. Users who are already successfully using CEREC in their practice will appreciate the system with the new level of speed, high level of quality, and convenience provided by CEREC Primemill can be milled even faster thanks to new tools and improved technology. The time required to fabricate a zirconia crown has been reduced by more than half. It can be cut from around 10-12 minutes to as little as 5 minutes using our new Super Fast mode.

It was important for us to create real added value with CEREC Primemill, both for the CEREC user and for those who have been passionate CEREC users for years,” explained Dr. Alexander Vöckler, Group Vice President CAD/CAM & Orthodontics at Dentsply Sirona. ‘We have noticeably increased the process speed while delivering outstanding restoration results. The variety of applicable materials leaves nothing to be desired and operating the unit has never been easier. The complete system does not require any data imports or exports. All processes are coordinated with one another and validated for an excellent and seamless chairside experience.”

Due to various certifications and registration periods, not all products are immediately available in all countries.

For more information on Primemill or CEREC please reach out to your local Dentsply Sirona representative or visit our website www.dentsplysirona.com.
CEREC Primemill
Excellence made easy.

The new CEREC Primemill is uniquely equipped for superior chairside dentistry. Our fastest milling unit ever, it’s also the easiest to use and compatible with the widest range of materials. Above all, it empowers dentists to deliver consistently excellent treatment for multiple indications.

The CEREC Primemill seamlessly combines with the highly accurate CEREC Primescan and new CEREC Software 5 to redefine performance in daily practice. Join us at your local CEREC event and test it yourself.

The all-new CEREC. Now is the time.

Learn more at: dentsplysirona.com/cerecprimemill

THE DENTAL SOLUTIONS COMPANY™

Dentsply Sirona
The 100k foot VALO™ curing light drop test: behind the scenes

The True Story of One VALO Curing Light’s Journey to Space

By Daniel Lewis, USA

There’s a deflating helplessness all golfers know, when you take two shots to get the ball on the green, then another two, three, or four shots to reach the bottom of the cup. Those final few feet between tee box and pin routinely humble the most optimistic golfer.

Ultradent teed off on a celestial par-5 when we launched a VALO Grand dental curing light into space in May of 2019. Our version of the putting green was a mountain covered in loose shale where the VALO Grand light landed. We eventually “dunk the put” by finding the curing light...but we took several attempts to do it.

The Vision to Send a VALO Light to Space

The 100th anniversary for a product like the VALO curing light can’t be a simple wine and cheese party. The line has set the bar for curing lights for a decade—we had to set the bar with a celebration. “This is the kind of thing where I didn’t ask a lot of permission,” jokes Ultradent’s Mike Simmons, a cornerstone architect of the VALO Light to Space initiative.

Simmons brought the idea to the table, but he credits the inspiration to a friend. “He had two very sick daughters with a rare immune deficiency. One of their brothers donated his bone marrow to his sister...and they had a hero party for him, where they sent a bobblehead of him to space on a weather balloon and captured it with GoPros.”

With this concept in mind, Simmons began formulating a plan to mark the VALO curing light’s decade on the market with a true out-of-this-world event. His team eyed May 1, 2019 for liftoff—so yeap to the day of the VALO curing light line’s debut. They had roughly 90 days of runway to execute the mission and found the process of entering Earth’s atmosphere relatively uncomplicated.

They devised a payload that would carry a VALO Grand curing light—along with a bobblehead of Ultradent Founder and CEO Dr. Dan Fischer—to 100 thousand feet of altitude, while also filming every angle of the flight and fall.

The cargo consisted of a Styrofoam box, four GoPro cameras, the VALO Grand curing light, and the Dr. Fischer bobblehead—all carried into space by a standard weather balloon purchased on Amazon.

The heftiest complication came from the fuel needed to power the 100k foot journey. “We’re in a nation-al altitude wilderness,” says Simmons just finding a vendor who would sell helium became a difficult endeavor, but a supply was eventually secured. “We may have overpaid for that,” he jokes, trying to cheer each other up...but we were all just like ‘ohhh nooo,’” Simmons recounts. “A couple hours...just waiting, waiting, waiting. Simms, Brown, and crew piled into a minivan on the way back. Everybody was quiet, nobody was really talking. We ordered dessert, and still, nothing. We knew the total flight time would be somewhere between 24 and 36 hours. And we gave it, probably 4.5 hours, maybe 5 hours. Just waiting, waiting, waiting. We ordered dessert, and still, nothing. We kinda just licked our wounds and went back to Ultradent.”

“Then we got in the minivan to start driving there, we were so excited, thrilled, anxious, just to get to Wyoming,” Brown adds.

The GPS pings were in line with the predicted flight path, and the team followed the digital footprints.

“It was following the trajectory of the prediction calculator exactly. We were like, ‘ok this might be too good to be true,’” says Simmons. “Then we lost it.”

The halt of pings didn’t alarm the team—they anticipated losing communication with the payload when it reached 40–50 thousand feet of elevation. They expected to pick up the pings again once the balloon popped and the cargo descended back toward Earth.

The crew pulled into a roadside diner and binned down, eating lunch to anxiously pass the time waiting for the next GPS ping.

“We had lunch with our laptops open, thinking ‘OK anytime now,’” Simmons recounts. “A couple hours later we’re just sitting there, and there’s nothing. We knew the total flight time would be somewhere between 24 and 3.5 hours. And we gave it, probably 4.5 hours, maybe 5 hours. Just waiting, waiting, waiting. We ordered dessert, and still, nothing. We kinda just licked our wounds and went back to Ultradent.”

“There was a totally different feel in the van on the way back. Everybody was quiet, nobody was really talking. People were making occasional jokes, trying to cheer each other up...but we were all just like ‘ohhh nooo,’” says Brown. “Just a real quiet ride back. I think we stopped to film a train. Oh that will make up for it, at least this time we saw.”

Moments prior to liftoff on Ultradent’s lawn
Successful launch
Waiting for the GPS pings to start again
Simmons ponders as he awaits a GPS ping
The point on the left marks where the payload landed, roughly 70 miles from the anticipated landing spot of Flaming Gorge. The predicted flight path for the payload
Ultradent’s Mike Simmons packs cargo for the (first) overnight flight
The VALO Grand curing light

The 100k foot VALO™ curing light drop test: behind the scenes

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The VALO Grand curing light
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Ultradent
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WE'RE CELEBRATING 30 YEARS OF BRIGHTENING SMILES!

Save on your favorite Opalescence whitening products today at ultradent.com/opalescence
Beverly Hills formula set to dazzle this 2020

For Irish oral care brand, Beverly Hills Formula 2019 can be seen as their most successful year yet. On the back of the success, they are set to launch their best ever Whitening toothpaste. Set to join the Perfect White family, the brand is set to launch their best ever product yet, which also works off light reflection technology that is visible after just one use. The ground-breaking amethist formula provides a whitening effect that is visible after just one use whilst hydrated silica and advanced pyrophosphates ensure excellent stain removal whilst working to lighten and brighten teeth. The product offers a first to market formulation which also works off light reflection technology to further enhance whitening results.

Beverly Hills Formula Excited to embark on another ground-breaking and award-winning journey, the brand is looking forward to kicking off this off the AEEDC Dubai 2020 with their latest products and innovations. Their presence will help to tailor CE opportunities worldwide. The exhibition offers Beverly Hills Formula the opportunity to meet with dental practices and suppliers who attend from all over the world, whilst also allowing the brand to showcase their latest products and innovations. Their stand, adorned in their trademark bold and daring colours, is always a must-visit for many attending over the weekend.

This year, Beverly Hills Formula will ensure that all eyes are on them as they are set to launch their best ever whitening toothpaste. Set to join the Perfect White Family in 2020 is Perfect White Extreme Whitening. Their latest product offers immediate optical whitening results and perfect stain removal whilst still being kind to teeth. The ground-breaking, amethyst formula provides a whitening effect that is visible after just one use whilst hydrated silica and advanced pyrophosphates ensure excellent stain removal whilst working to lighten and brighten teeth. The product offers a first to market formulation which also works off light reflection technology to further enhance whitening results.

DTI looks back on a successful 2019

DTI held its 15th Annual Publishers’ Meeting from 10-11 March in Cologne. (Image: Tom Corahal, DTI)

At the event’s website for information on the programme and registrations. DTI will be on-site at all of the major dental events next year, and our today show dailies will keep you informed at leading events, including AEEDC Dubai 2020 (taking place from 4-6 February at the Dubai International Convention and Exhibition Centre, in Dubai), Singapore (taking place from 24-26 April at Suntec Singapore Convention and Exhibition Centre), and the FEI World Dental Congress 2020 in Shanghai (taking place from 1-4 September at the National Exhibition and Convention Centre).

As we stand on the threshold of a new decade, it is exciting to imagine what is to come within the dental industry. New technologies for dental practice, international dental markets, dental technologies, and new professional journals are just some of the things to look forward to as we begin a new chapter.

Dr Arneth Malamant (left) accepted the P-I Brånemark Award for Lifetime Achievement in Dentistry on behalf of Prof. Sigur R Skulason, who could not attend the presentation but made his reception speech via a pre-recorded Channel3 Evening. (Photo: Caleb Dehl, DTI)

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**Beverly Hills Formula**

**Perfect White Toothpaste**

**Cutting-Edge Oral Care Products From The Teeth Whitening Experts**

- Formulated to achieve great stain removal results without damaging the enamel
- Developed to help you achieve professional results in the comfort of your home

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**Purity Laboratories Ltd**

Unit F1/F2, North Ring Business Park, Swords Road, Clongriffin, Dublin 9, Ireland. Tel: +353 1 842 6611. Email: info@beverlyhillsformula.com. Web: www.beverlyhillsformula.com

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Midline diastema closure using the front wing technique

By Dr. Walter Devoto, Italy

About the Case
A 35-year-old female patient expressed a desire to optimize existing composite restorations on her maximally central incisors, which had been placed 15 years previously to close her diastema. Then, a silicone key had been used for guidance. No tooth preparation was carried out, as the composite was bonded to the tooth structure.

Challenge
The surface of the restorations showed slight discolorations which were removable by polishing. The shape of the teeth was acceptable, but not perfect. A decision was made to retreat her in a non-prep, single-shade approach. The main goal was to create a more natural shape. The front wing technique invented by the StyleItaliano team was used. This approach involved freehand modeling of the vestibular part of the tooth, which was easily accessible. Afterward, material was added to the palatal side, and anatomical matrices were employed for shape optimization.

Outcome
The technique worked beautifully to close the diastema. Despite freehand modeling, it was much easier and more precise than using a palatal silicone index. In addition to the natural shapes that were achieved, 3M Filtek Universal Restorative blended well with the surrounding dentition, making the restorative work indistinguishable.

About the author
Dr. Walter Devoto graduated with honors in dentistry and dental prosthesis in 1991 at the University of Genoa, Italy. He is particularly interested in the fields of conservative dentistry and esthetic dentistry and runs his own private practices in Sestri Levante and Portofino. In addition, he is collaborating with diverse prestigious dental offices throughout Europe, which specialize in esthetic dentistry. He has worked as a teacher and demonstrator at the University of Genoa and as a lecturer at the universities of Siena and Madrid. Now, he is a lecturer at the International University of Catalonia, Barcelona, Spain, and visiting professor at the Aix-Marseille University in Marseille, France.

INITIAL SITUATION: 15 years after the initial non-prep treatment, the restorations were still intact, but there was room for improvement in regard to shape, especially in the vestibular area.

To ensure esthetic results and create favorable conditions for bonding, surfaces were roughened and discoloration and debris removed with 3M™ Sof-Lex™ Extra-Thin Finishing and Polishing Discs.

The surface was cleaned and slightly roughened for etching and bonding. The selected treatment approach worked without tooth preparation.

Enamel was etched with 3M™ Scotchbond™ Universal Etchant. After 15 seconds, etchant was removed by rinsing with water, and 3M™ Scotchbond™ Universal Adhesive was applied.

The preferred material for the single-shade technique was 3M™ Filtek Universal Restorative™ shade A1. The composite has a universal opacity and lending a chameleon effect.

Case Overview
After application of the first layer of composite, the diastema was closed from the vestibular surface. Vestibular wing was filled and cured on the palatal side.

Two anatomical matrices were used to close the diastema, create natural shape and ensure tight contact between central incisors.

Matrices in contrasting colors were used. A drop of uncured flowable composite between each matrix and tooth helped hold matrix in place.

Composite material was applied to fill space between each incisor and adjacent matrix. Matrix shape helped establish light contact points and desired anatomical form.

Restorations received final polish with 3M™ Sof-Lex™ Diamond Polishing Spiral (pink) of the 3M™ Sof-Lex™ Diamond Polishing System.

FINAL RESULTS: Anterior restorations were naturally shaped and virtually indistinguishable from natural tooth structure. The composite blended in perfectly with the color of the surrounding teeth.

Refer to Instructions for Use (IFU) for complete product information.
What if a composite could make your busy days easier?
By Coltene

COLTENE is a global leader in the development, manufacture and sale of consumables and small equipment for endodontic treatment applications. The comprehensive portfolio of endodontic systems includes root canal preparation with files and rinsing solutions, obturation and post systems. As the inventor of controlled memory files with the launch of Hyflex CM in 2011, COLTENE has taken a lead in innovative products for modern endodontics treatments.

Additionally, the COLTENE Dental Group offers a wide range of products, encompassing three segments. This results in solutions for almost all dental treatments ranging from infection control to tooth preservation and treatment efficiency. The COLTENE Group strengthened its position in the Endo-Seg ment with the acquisition of the French enterprise MicroMega. The now combined product portfolio offers an even more customized range of files and endodontic equipment.

Product range for new endodontic dimensions:
- Hyflex EMD and CM, MicroMega One Curve and MicroMega 2Shape NiTi file systems, allowing the fast and safe instrumentation of the various root canal anatomies according to the preferences of the user.
- Hyflex paper and gutta-percha points, which perfectly match to the Hyflex CM and Hyflex EMD NiTi file systems.
- Well proven CanalPro and MicroMega Dual Move endo motors, completed by CanalPro and Dual Post Apex Locators for working length measurement.
- Innovative modular CanalPro rinsing solution system and MicroMega Endo Aura for ultrasonic activation to ensure an optimized disinfection and long-term successful treatment.

By Dentsply Sirona

Primarily, a curing light is a device to polymerize restorative materials. But it can be so much more, as shown by the new SmartLite Pro from Dentsply Sirona. It is an outstanding tool that allows for cutting edge curing performance. In addition, it features a forward-thinking modular concept with quick connect tips for a variety of clinical indications. Last but not least it exhibits an extraordinary design combining high-tech elements and robustness with a lightweight pen-style look and feel.

The SmartLite Pro is a unique modular curing device in a remarkable, all-metal housing.

Designed to perform

Once you have taken the new curing light into your hands you will immediately feel a lightweight and well-balanced pen-style design which is beautiful in each of its details. The SmartLite Pro’s housing is fabricated of medical-grade stainless steel and anodized aluminum providing for robust durability and elegant simplicity.

The user will love the easy and intuitive operation with only one single button. Feedback is facilitated by precise audible and tactile signals. Its clinical performance in everyday practice is unsurpassable.

Top of the class in curing

SmartLite Pro features newly engineered state-of-the-art optics to provide a homogeneous beam profile for a uniform curing performance. Unlike many conventional lights the new device has an even and focused light distribution over the whole curing area. Moreover, the SmartLite Pro features an active light output diameter of 10 millimeters. This ensures that the beam completely encompasses even fillings with a large horizontal extension. The leading clinical performance is accompanied by a comfortable handling. The 360 degree rotatable tips and the low-profile head with four high-performance LEDs guarantee easy clinical access even in hard to reach areas of the mouth. The dentist experiences excellent intraoral control and will easily maintain a steady hand at the proper angle.

Constant availability thanks to innovative battery management

The futuristic multifunctional charging base features a built-in radiometer and room for extra tips. The intuitive battery management system comes with two quick-connect batteries for constant availability. Cutting edge lithium ion phosphate cell technology ensures that the dentist may enjoy a full day of clinical operation with only one charge.

Thinking ahead

The modular versatility expands the options beyond the scope of a pure curing light and includes various other indications. For example, the user may easily change from the curing tip to the transillumination tip. Within a few moments he holds a diagnostic aid for the visualization of interproximal cavities and cracked teeth in his hand. And in the area of root canal treatment this tip will provide for endo access illumination.

But the best news is: The platform technology of the SmartLite Pro offers a forward thinking system, which gives way to numerous future upgrades and will open up new worlds of indications and applications. The SmartLite Pro is one of the most versatile dental instruments because it features leading quality of care, and yet is so much more than just a curing light.

New SmartLite Pro – more than just a curing light

Fig. 1: Ergonomic, pure and elegant: the new curing light SmartLite Pro by Dentsply Sirona.

Dental study of ancient chewing gum informs about oral microbiomes of the past

The study, titled “A 5700 year-old human genome and oral microbiome from chewed birch pitch”, was published on 17 December 2019 in Nature Communications.

The pitch was found in archaeological excavations carried out by the Museum Lolland-Falster at Syltholm in southern Denmark, and subsequent analysis was conducted by researchers at the University of Copenhagen. Radiocarbon dating of the pitch helped to place it as a specimen from the early Neolithic period in Denmark, while DNA sequencing revealed that it was chewed by a female who was more closely genetically related to the hunter-gatherers of mainland Europe than to those who populated central Scandinavia at the time. It was found that she probably possessed dark skin, dark hair and blue eyes.

Traces of haeuratus and duck DNA were also identified in the pitch, suggesting that these may have formed part of the individual’s diet. The researchers also successfully identified DNA fragments from several bacterial and viral taxa, including the Epstein-Barr virus, which can cause glandular fever.

“The study is important as it provides never before seen insights into human diet and behavior,” said Dr Theis Jensen, a postdoctoral student at the University of Copenhagen’s Globe Institute and a co-author of the study.

“We managed to extract many different bacterial taxa, which are characteristic of an oral microbiome,” added Dr Katharina Schneider, associate professor at the Globe Institute.

“Our ancestors lived in a different environment and had a different lifestyle and diet, and it is therefore interesting to find out how this is reflected in their microbiome,” he continued.

Though still a relatively new form of analysis, DNA sequencing from birch pitch is growing in popularity, in part owing to its potential to be a good proxy for human bones in archaeological studies. As reported by Dental Tribune International last year, Scandinavian researchers have previously used pitch to sequence DNA from the first humans who settled in the region some 10,000 years ago.

Though a considerable amount of information can be uncovered through the DNA sequencing of pitch, several questions still remain—including the question of what purpose chewing it was. Some researchers have suggested that it may have been a method for making the pitch more pliable for further uses, such as binding and medical and hunger-suppressing uses have also been put forward for consideration.

The study, titled “A 5700-year-old human genome and oral microbiome from chewed birch pitch”, was published on 17 December 2019 in Nature Communications.
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Perform at your best in diagnostic and restorative
Reduce glare and create beautiful restorations

By Hu-Friedy

Having a clear and precise diagnosis is needed in order to correctly plan the necessary treatment and sight is the first sense that every clinician uses, therefore having the best possible vision is crucial.

With this in mind, Hu-Friedy, the global leader in dental instrument manufacturing and infection prevention solutions, leveraged the success of HD Mirrors, Blackline and XTS product lines, to create HD Black Line Mirrors. This innovation was engineered to optimize clinical outcomes by delivering superior visibility throughout any dental procedure.

Designed for enhanced performance, Hu-Friedy’s HD Black Line Mirrors have a Diamond Like Carbon (DLC) coating, which reduces glare up to 80% compared to traditional metal mirror heads and handles. This helps to reduce strain and fatigue, creating a more ergonomic mirror, as the user does not need to adapt their viewing position due to unwanted shine produced by traditional metal mirror handles or frames.

Additionally, the black matte finish provides enhanced contrast and visual acuity within the oral cavity. This creates a distinct contrast between the instrument, the tooth and/or the surrounding tissue allowing for easy identification intraorally.

So, the DLC coating in combination with the superior brilliance and color of Hu-Friedy’s proprietary HD Mirror glass facilitates quicker and more accurate visibility of the mouth. Tami Wanless, RDH, MED, from USA, states about the product, “I wear loops with a LED light and noticed a significant difference in the amount of glare reflecting back into my field of vision during patient care, allowing me to see more detail. I realized, at the end of my clinical day, I had less eye strain when I used the HD Black Line Mirrors.” (Fig.1).

“Hu-Friedy’s HD Black Line Mirrors in his digital dentistry cases: “In looking to enhance our product offering for aesthetic dentistry, the unique composite instrument features hyper-thin working ends made from Nickel-Titanium (NiTi) – an alloy known for its super elasticity. The thin, double instrument fits easily into narrow interproximal spaces allowing for greater visibility compared to traditional composite instruments.” (Fig.2)

By Hu-Friedy

The resin working ends rebound back to its original shape after use and are excellent for creating fine anatomical detail with delicate, artistic strokes during aesthetic restorations (Fig.4).

In addition to its slimmer profile and innovative NiTi working ends, the handle of the Akro-Flex™ composite instrument was designed with the clinician in mind. The sleek, smooth finish prevents build-up of excess composite material while the lightweight, ergonomic design allows for an enhanced grip with less hand fatigue.

Radical oral intervention not necessary before stem cell transplants, study says

By Dental Tribune International

BASEL, Switzerland/HELSINKI, Finland: Hematopoietic stem cell transplantation is used to treat cancers and severe blood and autoimmune diseases owing to slow immune system recovery after the transplantation, patients have a heightened risk of infection. However, a recent study has reported that the presence of acute or chronic oral foci of infection before the transplantation does not affect the patient’s survival rate within six months of the procedure.

The study was conducted by the University of Helsinki, the Helsinki University Hospital, the University of Basel, and the University Hospital Basel. It involved patients who had been treated at the University Hospital Basel, of whom 341 had received an allogeneic stem cell transplantation and 125, an autologous stem cell transplantation. The study, “Associations of oral foci of infection with infectious complications and survival after hematopoietic stem cell transplantation,” was published on 18 December 2019 in PLOS ONE.

A total of 57 stem cell transplant patients died within six months of the procedure. However, the data showed that the foci of infection, the number of missing or filled teeth, and the cases of periodontitis identified in the examination were not associated with the patients’ lower survival rates.

“Contrary to our assumptions, untreated oral infections had no connection with post-stem cell transplantation survival during the six-month follow-up period. Another surprise was that they had no link with any serious infectious complications occurring during the follow-up period,” said lead author Prof. Juomas Waltimo, assistant lecturer in the Department of Biomedical Engineering at the University of Basel.

“However, the patient’s health permitting, and if the wound has enough time to heal before chemotherapy, the radical treatment of such infections is justified. Other than that, conservative, non-radical treatment that eliminates the infection carried out by a dentist familiar with the case appears to be the lowest-risk option in terms of infections and bleeding complications,” Waltimo noted.

The results of a recent study have suggested that radical treatment of acute and chronic oral infections could be postponed until after hematopoietic stem cell transplantation. (Image: Vadym Wedmov/Shutterstock)
WHAT'S NEW FROM HU-FRIEDY

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Designed for enhanced performance, Hu-Friedy’s HD Black Line Mirror is engineered to optimize clinical outcomes by delivering superior visibility throughout any dental procedure.

The Diamond Like Carbon (DLC) coating of the handle and mirror frame reduces glare up to 80%*

The durable black matte finish in combination with the superior brilliance and color of Hu-Friedy’s proprietary HD Mirror glass facilitates quicker and more accurate visibility of the mouth.

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Akro-Flex™ is an extremely flexible composite instrument which allows clinicians to effortlessly manipulate composite materials during aesthetic restorations.

The inclusion of a ductile material allows Akro-Flex to perform as a solid brush.

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Frame the QR Code with your smartphone and watch directly on YouTube. Video courtesy of Neocera.

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HD Mirror provides superior brilliance and color for quicker and more accurate visibility of the mouth.

+ 100% reflection factor for exceptional image clarity.
+ 39.5% brighter than rhodium coated mirror glass.
+ 50% brighter than other front surface mirror glass.

* Value comparing the Hu-Friedy DLC coated mirror handle to the Hu-Friedy non-coated handle and handle to the Hu-Friedy non-coated mirror.
† Data on file and available upon request.

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By incorporating Nickel Titanium, a material known for its super flexibility, Akro-flex acts as a solid brush. The resilient working ends are excellent when creating fine anatomical detail with delicate, artistic strokes.

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The smooth, lightweight handle offers increased control due to the large diameter. It creates an ergonomically friendly option that provides maximum comfort and helps reduce hand fatigue. Reduced hand fatigue can increase the longevity of a clinicians career.

HYPER-THIN PROFILE
Ultra thin working ends reach narrow interproximal spaces with ease. The flexible, versatile working ends allow for better visibility as compared to traditional composite instruments.
2019 GNYDM highlights latest dental products and technologies

By Dental Tribune International

NEW YORK, U.S. — Held from Nov. 29 to Dec. 4 at the Jacob K. Javits Convention Center, the 2019 Greater New York Dental Meeting (GNYDM) demonstrated once again why it is the country’s largest and most anticipated dental congress by offering an inviting mix of educational sessions, hands-on workshops, product launches and more.

The 95th iteration of the free-to-attend annual event attracted more than 52,000 attendees from all parts of the dental industry. A large number of these visitors were international. The German Pavilion featured a variety of companies displaying their wares under a “made in Germany” banner, while another area of the convention center showcased a broad range of Korean companies such as META BIOMED and DIGIBAY.

More than 300 educational courses and events were conducted over the course of the 2019 GNYDM, covering topics as diverse as adhesive dentistry, guided implant surgery and early detection of oral cancer. A number of these courses were run entirely in Spanish, an inclusive choice that considered the approximately 41 million native Spanish speakers who currently reside in the United States.

Live dentistry sessions were held each day in the convention center and proved to be a hit with audiences. Among these sessions were “Executing Accurate Aesthetic Dentistry,” in which Dr. Michael Apa discussed techniques for preparation, temporation and the integration of digital technology, and “Modern Materials in a Digital Era,” a session presented by Dr. Justin Chi and sponsored by Glidewell Dental.

The Utah-based startup company Weave was present at the 2019 GNYDM to publicly debut Weave Payments, a full-scale payment processing platform for small and medium-sized businesses, and 3DISC launched the latest version of the Heron IOS, its solution for intraoral scanning.

The 2020 GNYDM will be held once again at the Jacob K. Javits Convention Center from Nov. 27 to Dec. 4, 2020.
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04 AIRFLOW®
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06 PIEZON® PS
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Class 1, 2, 3 and 4 with a soft curette
Use EMS PIEZON® in instrument around implants up to 3 mm subgingivally and on restorations

07 CHECK
MAKE YOUR PATIENT SMILE
Do a final check for remaining biofilm
Ensure calculus is fully removed
Accurately diagnose caries
Protect with fluoride

08 RECALL
HEALTHY PATIENT = HAPPY PATIENT
Schedule recall, frequency according to risk assessment
Ask your patient if he or she liked the treatment

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Waiting is the Hardest Part

The next ping came in the middle of the night, nearly 12 hours after the team returned to Ultradent HQ. ‘About 8 go the next morning I logged on and saw we got ping starting about 2 in the morning. But they were very remote, and we wondered if it was right. The prediction calculator said it was supposed to be by Flaming Gorge and this was in the middle of the Uintas,’ Simmons explains.

The prognosis for recovery was far from ideal—the payload landed deep in the mountains, not far from the second highest peak in Utah. ‘The forest service told us it’s not accessible by car, it’s 10–12 miles in from the trailhead and they were sitting around 90 inches of snow at the time,’ says Simmons. ‘We were like, OK, we need snowmobiles, snowshoes, cross country skis [. . .] we’re going to do this thing.’

‘We knew we were going to go get it, go rescue it. We were making jokes about the Uintas,’ Brown says. ‘We knew we were going to go get it, going to get this thing.’

‘We put everything in slow motion from the payload. We got completely dogged.’ Brown says.

The team scoured the area, sliding around on the shale as they tried to stay upright, relieved and rejuvenated from finding the box. The jubilee was short lived, as they soon realized the VALO Grand curing light was no longer attached to the payload, nor was it anywhere in the vicinity. ‘We knew we had to head out of this area by noon, to get off the trail by dark, so we can get home without our families calling search and rescue,’ says Simmons. ‘Noon comes, and we didn’t find the VALO light, we got completely dogged.’

After a few hours of searching, the team resigned to leaving without the curing light, but their spirits were nonetheless boosted from finding the payload. ‘We were all beat at the end of that day, but when we started charging the GoPros in the car and started seeing the footage, it was really exciting,’ says Brown.

Video evidence in tow, the team returned—with the VALO light for the second time—to Ultradent HQ.

The video investigation got underway immediately, with all five camera angles providing clues to the potential whereabouts of the missing VALO Grand curing light. The footage became Ultradent’s version of the Zapruder film.

‘We started to dig into the videos, seeing the footage, and started determining that where the VALO light went down was not the final resting place of the payload box,’ says Simmons. ‘We put everything in slow motion, all angles from the cameras, slithering around. We saw the VALO light detach right when the payload touched down.’

Frame by frame, the footage was examined and the team developed theories for where the VALO curing light came to rest. They didn’t know exactly where it was, but they knew they needed to go back to the landing zone to find it. ‘There was basically a 37-yard section of steep embankment, a 200-foot cliff and 300-400 yards of very steep shale that we needed to search,’ Simmons says.

‘No VALO light left behind,’ right?

Return to the Wild

 Powered by dedication and persistence (and a desire to spend additional days in the woods instead of the office) the search party—now including Ultradent’s Kate Loyola—returned to the trailhead once more and began their journey toward Dead Horse Lake and the landing zone for the payload. They reached the campsite and bedded down to prepare for another day of scouring the shale-covered slopes. Brown even managed to pack a sleeping bag this time.

‘I had a metal detector, and we were really concerned that we were going to have to scan all this shale with it,’ Brown says.

Search number two got underway at sunrise, with the team determined to track down the missing VALO curing light more than 17 weeks after it was launched.
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“When I saw photos of it I didn’t realize how large it is,” says Loyola of the landing zone. “You see these boulders on the top of the mountain and think they aren’t so big then you get up to them and they’re the size of a school bus.”

The hunt was physically taxing but it soon provided hope—they found batteries that had been inside the payload box, but still no VALO curing light. “We also found a bell from a goat that’s probably long since been dead. A relic, it’ll be in the Smithsonian later,” Brown recalls, smiling.

After several hours of searching with only batteries and a goat’s bell to show for their efforts, the team threw in the towel for the day without securing the VALO Grand curing light. They returned to camp to spend another night at Dead Horse Lake with one final day of searching ahead of them.

Spotting the VALO Curing Light

The next morning it was déjà vu at 12k feet as the crew hiked to the landing zone for the third time. When the batteries were found, the team had been searching the lower ‘bowl’ section of the landing zone. Now they had to canvas the upper rim and slope. “When you’re down in the lower part of the valley and you’re looking at the upper shelf, you don’t realize how steep it is,” Simmons says, eyes wide.

“The enormity of it was so weird. When you’d look at it, you’d get this vertigo type feeling like from a Hitchcock movie,” says Brown.

“It was so steep, we were thinking, can you even walk on that? Should we have brought rope to harness in?” It took 40 minutes just to hike to the top, Simmons sighs. “We went to the very end of the cliff face and started to zig, zag back and forth and it was horrible.”

Fortunately for the crew, they soon caught their biggest break yet. “Probably 15 minutes after we hiked up, I look down and 20–25 feet away from me, I see this metallic signature. I don’t see the VALO light, I see Dan Fischer’s signature,” Simmons says with a visible glow. He enthusiastically blew his whistle and the crew scampered over to his location.

Brown grabbed the VALO Grand curing light and as soon as he put batteries in, it gave off a BEEP, signaling it still worked. That seemingly innocuous BEEP cascaded unfiltered elation over the search crew as pride in the curing light’s durability flooded through them.

“I was yelling so loud, somebody else came over from a different mountain range thinking I was hurt. Full throated bellows,” Brown recounts, visibly relieved by the successful mission.

“Brown grabbed the VALO Grand curing light and as soon as he put batteries in, it gave off a BEEP, signaling it still worked. That seemingly innocuous BEEP cascaded unfiltered elation over the search crew as pride in the curing light’s durability flooded through them.”

With the slog now finished, a victorious search team retreated from the landing zone for the final time, to proudly return the fully functional VALO Grand curing light to Ultradent HQ 126 days after it left.

The Dr. Fischer bobblehead, floating tens-of-thousands of feet above Earth’s surface.

The daunting hill of shale.

The VALO Grand curing light, resting where it was spotted by Simmons.

A needle in a haystack may have been simpler to track down than a VALO Grand curing light on a mountainside of shale.

Brown and Loyola balance on a downed log to cross a creek.

With the slog now finished, a victorious search team retreated from the landing zone for the final time, to proudly return the fully functional VALO Grand curing light to Ultradent HQ 126 days after it left.
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Smile rejuvenation with Biosmart restoratives

Dr. Hussein Naama
Alghadeer Center, Iraq

Introduction

Dentists today are spoilt for choice with a variety of direct and indirect treatment options for aesthetic restorations in the anterior zone. We are often challenged to create restorations that mimic natural teeth or enhance smiles to meet patient desires and expectations. I have recently adopted the Minimal Invasive Cosmetic Dentistry (MiCD) concept introduced by Dr. Sushil Koirala which is based on a holistic patient-centric treatment approach that integrates minimally invasive treatment techniques with aesthetic dentistry to enhance the smile while taking into consideration the psychology, health, function and aesthetics of the patient.

Diastema or space between the teeth is a common dental condition that can create cosmetic issues in adults and often corrected with orthodontic treatment or indirect veneers. The clinical case below highlights a different treatment approach where direct aesthetic restorations were selected after assessing the variety of direct and indirect treatment options.

The clinical case below highlights a different treatment approach where direct aesthetic restorations were selected after assessing the following 5 factors which we take into consideration when treatment planning in my practice: 1. Treatment longevity, 2. Cost estimation, 3. Treatment complexity, 4. Esthetic considerations, 5. Vitality of the tooth, 6. Biological cost, 7. Expectations of the patient.

To achieve predictable aesthetic outcomes when opting for diastema closure and smile rejuvenation with direct restorations, it is very important to understand the optical characteristics and properties of the composite material being used. For this clinical case I have used a BEAUTIFIL II LS biactive, low shrinkage composite resin with life-like aesthetics and high polishability to mimic nature with long-term predictability (Fig. 1).

Patient Case

A 28 years old female patient visited our clinic requesting for a beautiful smile with less tooth destruction at a reasonable cost and to help evaluate the patient perception and direct aesthetic treatment with indirect veneers which she had refused and was in search of an alternate option that would meet her needs.

Treatment Plan

The smile defects were determined upon careful clinical examination. The patient presented with reverse smile line and median diastema that needed cosmetic correction. A direct mock-up was planned as an initial step to help evaluate the patient perception and visual interpretation of the expected final outcome as there were limitations in the selected direct restorative approach to rejuvenate the patient’s smile. (Fig. 2)

Materials Used

After careful examination the following materials and Composite shades were selected:

- Tooth preparation
- Fine Diamond Points (Red band on the shank) and Super-Snap Violet Disk
- Beatching and Bonding – 37% Phosphoric acid and FL-Bond II
- Composite materials
  - Palatal Shell - BEAUTIFIL II Enamel shade T
  - First Dentin layer - BEAUTIFIL II LS opaque shade A2O
  - Second Dentin layer - BEAUTIFIL II LS shade A2
  - Enamel Layer - BEAUTIFIL II Enamel shade HV7 (High Value Translucent)
- Finishing & Polishing – Fine Diamond Points, Super Snap X-treme Kit
- Super Polishing for high gloss – Direct Dia polishing paste with buff disk

Restorative Approach

Direct Mock-up and Shade Selection

Composite mock-up can be used as an aid in both diagnostic and aesthetic evaluation. In this instance, a prepless direct mock-up technique was selected with the aim of motivating the patient, evaluation of patient expectations by directly checking the smile design and to create the silicone index for fabrication of the palatal shell in the final restorations. (Fig. 3). During the direct mock-up, composite material was added to the distal side of the left lateral incisor tooth to enhance the overall appearance while preserving tooth structure as per the MiCD approach (Fig. 4).

There are many different methods used for shade selection to achieve an accurate shade match with the natural tooth. In my practice, we prefer to use the direct technique for shade selection, where the enamel and dentin shades of composite materials are placed directly on the tooth surface and compared with the shade of the natural tooth. Shade selection procedure is completed with digital photography taking into consideration the 3 dimensions of color with “Hue, Value and Chroma” (Fig. 6). A composite recap is identified for build-up of each restoration.

Fig. 1a & 1b: Before and after smile rejuvenation with Biosmart restorative materials

Fig. 2: Pre-operative diastema between upper central incisors

Fig. 3: After prepless direct mock up

Fig. 4: Patient smile after direct mock-up

Fig. 5: Occlusion and high points checked with articulating paper

Fig. 6: Direct shade selection with BEAUTIFIL II LS enamel and dentin shades

Fig. 7: Preparation of enamel surface with Super Snap Violet Disk

Fig. 8: Selective etching of the enamel surface with Phosphoric Acid

Fig. 9: Application of FL-Bond II bonding agent

Fig. 10: Palatal shell coated with BEAUTIFIL II Enamel shade 7 and incisal edge with BEAUTIFIL II LS opaque shade A2O

Fig. 11: Diastema closure with BEAUTIFIL II LS shade A2 and BEAUTIFIL II Enamel shade HV7

Fig. 12: Build-up of incisal area of central incisors with BEAUTIFIL II LS shade A2 and BEAUTIFIL II Enamel shade HV7

Fig. 13: Restored central incisors before finishing and polishing

Fig. 14: Grind finishing with Fine Diamond Point (Red Band on the shank) at very low speed with no water

Fig. 15: Marking of mesial line angle and macro anatomy

Clinical Tip: It is important to check occlusion and identify the high points using articulating paper to ensure that an accurate silicone index can be created for the palatal shell (Fig. 5).
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By mectron s.p.a.

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Oral-B IO unveiled at consumer electronics show, marking the brand’s most innovative power toothbrush to date

A CES Innovation Award 2020 honoree, the new Oral-B I O reimagines brushing from the inside out, delivering superior design, performance and experience for a professional clean feeling every day.

By Oral-B

Oral-B, the industry leader in oral care innovation, today unveiled the most revolutionary technology in its history with the Oral-B I O. Introduc- ing at a press conference hosted by parent company Procter & Gam- ble during the Consumer Electronics Show (CES) in Las Vegas, the Oral-B I O signals the latest addition to the brand’s impressive line of power toothbrushes. Further validating the product’s exemplary design and engineering, the Oral-B I O was given the distinction of being one of this year’s CES Innovation Award Hono- rees, an annual accolade that recognizes outstanding new consumer technology products.

Oral-B I O is a new power toothbrush series that has been reimagined and redesigned from the inside out, combining best-ever clinical perfor- mance with a superior user experi- ence, making it one of the industry’s most advanced brushing products. Oral-B I O was designed as a result of insights collected from more than six years of product research and development and over 250 patents from around the world. Oral-B I O uniquely features a frictionless mag- netic drive, which distributes energy more efficiently to the tips of the bristles, resulting in a smooth, quiet, sensational cleaning experience. The new magnetic drive delivers cleaning energy to the redesigned I O brush head, which has been engineered to combine oscillating and rotating cleaning motions with microvibra- tions for a professional clean feel.

“Nothing like the Oral-B I O. It introduces a new era in brushing and is a monumental leap in innova- tive oral care technology,” said Steve Bishop, P&G Health Care CEO. “The result of years of expert devel- opment, Oral-B I O strikes the right balance between effectiveness and experience and reimagines how a brush performs, cleans and feels. It is a brush that people will look forward to using and will deliver superior oral health.”

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By Dentsply Sirona

CEREC users will tell you going digital was a great decision, but until they did it they too sometimes had doubts. Would everything go smoothly right away? No. Could they learn to handle the technology? Absolutely. What about the quality of restorations? Outstanding in every way.

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Introducing the complete Neo Spectra ST composite portfolio for efficient esthetics.

By Dentsply Sirona

With the new Neo Spectra ST composite portfolio, dental professionals can now find the full range of handling preferences and esthetic needs covered by a single product line. Thanks to SphereTEC filler technology, the portfolio offers optimized performance in the areas that matter most, helping clinicians to achieve reliable, aesthetic results efficiently.

Dentsply Sirona’s latest innovation in composite filler technology, SphereTEC, was introduced to dentistry in 2019. SphereTEC fillers are spherical-shaped, pre-polymerised fillers created from sub-micron barium glass. Their morphology, particle size distribution, and surface microstructure deliver the benefits that matter most to dentists. Over 24 million restorations after the new technology’s debut, Dentsply Sirona introduced an expanded portfolio with SphereTEC technology. Clinicians can now enjoy SphereTEC technology benefits in all composite cases with the comprehensive Neo Spectra ST portfolio. Neo, meaning ‘new’ or ‘revived’ emphasizes the modern, cutting-edge approach taken to optimize our composite portfolio. Neo Spectra ST explains the portfolio’s coverage of the full range of ‘Spectra’ of handling preferences and esthetic needs optimized with SphereTEC (ST) technology.

Covering the Full Range of Handling Preferences

Dentsply Sirona recognizes that every clinician is unique and when it comes to composites, so are their handling preferences. That’s why the Neo Spectra ST composite portfolio was designed to cover a full range of handling options, enabling clinicians to select their preferred viscosity for placement ease and efficiency. Neo Spectra ST High-Viscosity (HV) universal composite has a firm, packable handling, while the Low-Viscosity (LV) option offers a creamy, spreadable handling. Thanks to SphereTEC technology, both the HV and LV universal composite viscosities are non-sticky to the instrument, easy to adapt, sculpt, and shape, and are resistant to slumping. For applications where higher flowability is preferred, the nano-fillers in Neo Spectra ST Flow help to create a versatile, thixotropic ‘flow on-demand’ handling that stays put until the user initiates the flow. Each of the three viscosities offers proven durability, excellent chameleon blending ability, high polish and stain resistance.

Covering the Full Range of Esthetic Needs

In addition to satisfying the range of handling preferences, the Neo Spectra ST composite portfolio makes it easy to achieve natural esthetic results with a streamlined shade inventory and simplified techniques. The unique construction of SphereTEC fillers creates an excellent chameleon shade blending effect that enables five shades A1 to A4, called universal CLOUD shades, to cover the entire VITA® Classic range, and satisfy the esthetic demands for the vast majority of cases with a single shade: one additional shade, BW (bleach white), is also available for restoration of bleached teeth. For esthetically demanding anterior cases, Neo Spectra ST Effects offers two opaque dentin shades and one translucent enamel shade that work together in a simplified layering technique with Neo Spectra ST universal CLOUD shades. The simplified shade concept and layering technique result in streamlined composite inventory while ensuring reliable, highly aesthetic clinical results. The unique structure of SphereTEC fillers also maximizes composite strength and durability, while their sub-micron primary particle size ensures excellent polishability.

For further information about Neo Spectra ST composites available from Dentsply Sirona, please contact your local Dentsply Sirona representative or visit our website www.dentsplysirona.com.

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The reality is that digital dental technology has now become user-friendly and affordable enough to be adopted by anyone who wants to access its benefits. Clinics and labs of all sizes are unlocking substantial efficiency and productivity gains with no compromise in quality. In fact, many digital workflow users credit digital dentistry tools with contributing to improved quality in care due to the level of precision that is now possible, and the fidelity of planned versus actual outcomes.

Digital scans and digital designs fuel accurate digital production that increasingly requires less and less post-processing before next steps can be taken. This is true for everything from prosthodontic models to long-term, full arch dentures. These advancements are exciting and beneficial to everyone involved. Labs can handle higher volumes, practitioners can expand in-house services, and patients can get precise treatment faster, with fewer visits.

For instance, the new capabilities in 3D printing speed make it possible for clinicians to deliver complete restorations within a same day appointment that have historically required multiple visits. On the NextDent 5000, for example, it is now possible to 3D print a full arch in half an hour or less. For practitioners, this means the ability to see more patients over time while offering a more convenient, expedited treatment experience. For patients, the integration of this technology means fewer scheduling conflicts and life disruptions to address their concerns.

For dental laboratories of all sizes, increases in digital production speeds are of tremendous value. Large laboratories are able to increase productivity to keep production volumes up, and small laboratories are able to avoid backlogs to maintain availability to take on new jobs. Fast and highly accurate 3D printing also enables superior communication between dentists and laboratories to enable streamlined restoration fabrication and delivery and increased patient satisfaction. The expedient input to output loop created by the digital dentistry workflow is more comfortable and convenient to the patient than the traditional processes it replaces. Furthermore, digital precision at every stage gives care providers higher confidence in fit. The author of this piece has firsthand experience to support these statements, as I was one of the first patients to receive a 3D printed restoration. I had a tooth replaced in 2016 using 3D printing, and it works and looks as great as it did on day one!

As dentistry and 3D printing continue to evolve and synergize, my experience is becoming less and less unique, which I view as a wonderful thing. From high production labs where large volumes of unique parts must be fabricated quickly, to private clinics where the provider wants to enhance patient experience with high quality expedited treatment: 3D printing technology is leading a transformation in dental occupations that allows everybody to win.

recorded brushing sessions. Oral-B iO has a simple and intuitive user interface that guides consumers through a two-minute brushing session with 3D teeth tracking to ensure a professional clean feeling every time.

"Oral-B iO goes beyond being a new toothbrush – it is an innovative brushing technology with a truly sensual experience that users will feel, hear and see, transforming the act of brushing teeth from something they have to do into something they actually want to do," said Lisa Ernst, P&G VP Global Health Care R&D. "Six years of dedicated research were undertaken with dental professionals to discover a wholly original brushing experience."

In clinical tests, Oral-B iO provided a deeper cleaning of teeth and gums, allowing users to easily and effectively maintain oral health. When compared to manual toothbrushes, Oral-B iO users experienced:

- 100 percent healthier gums in just one week
- Six times more plaque removal along the gumline
- 83 percent of gingivitis patients moved from unhealthy to healthy gums in eight weeks

The new Oral-B iO will be available for purchase beginning in August 2020. For more information about Oral-B iO, visit oralb.io. To join the Oral-B iO waitlist and be among the first to receive it, visit oralb.io/sign-up.