"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.

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

Dr. Mollova - DTMEA: 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.

By 3D Systems

Transforming treatment for the better with digital dentistry

Capabilities in dentistry have evolved at an astonishing rate over the past several years, and the transformations are by no means slowing down. The introduction of synergistic technologies such as intraoral 3D scanning, computer aided design (CAD) software, 3D printing, and materials science are creating new treatment and business opportunities for dental professionals with equally positive impacts on patients. Offering unprecedented speed, accuracy and cost-effectiveness, the digital dentistry workflow is not theoretical; it is in use in labs and clinics around the world, and it is gaining traction daily.

Generally speaking, a complete digital dentistry workflow includes methods for digitizing patient information, precisely manipulating that digital information, and transferring digital information back into the physical world in a suitable material. Many dental offices have now adopted intraoral 3D scanning, which satisfies the first step of the workflow and gives patients a more comfortable alternative to traditional impressions.
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—for both the user and patient.

CEREC Primemill, Dentsply Sirona’s new grinding and milling machine, ensures producing impressive restorations with precise margins and a perfectly 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 RHD 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. Gertrud Fabel, 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 through all workflow processes. Each workflow step is displayed in order and shows, for example, which tools are used for the selected material and machining option. 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 progress bar which changes to green when the manufacturing process is finished. In addition, the interface guides the user through routine maintenance procedures and thus facilitates the easy upkeep of CEREC Primemill.

More esthetic, faster and simply excellent

With CEREC Primemill, restorations, especially those made of zirconia, 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 to 12 minutes to as little as 5 minutes using our new Super Fast mode.

The results speak for themselves. Using newly developed, very fine tools (0.5 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 all new CEREC 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.

"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 Völcker, Group Vice President CAD/CAM & Orthodontics at Dentsply Sirona. "We have noticeably increased the process speed while delivering outstanding restorations 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 certification 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 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 bottoms 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 “punk 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 daugh-
ters 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 bubblehead 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—10 years to the day of the VALO Grand curing light’s decade on the market with a true out-of-this-world event. His team eyed May 1, 2019 for liftoff—10 years to the day of the VALO Light’s decade on the market with a true out-of-this-world event. His team eyed May 1, 2019 for liftoff—10 years to the day of 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—10 years to the day of 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—10 years to the day of 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—10 years to the day of 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—10 years to the day of 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—10 years to the day of 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—10 years to the day of 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—10 years to the day of 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—10 years to the day of 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—10 years to the day of 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—10 years to the day of 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—10 years to the day of 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—10 years to the day of 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—10 years to the day of 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—10 years to the day of 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—10 years to the day of 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—10 years to the distance of this small world.

“The amount of preparation just for (launch day) was pretty crazy. I don’t think either of us were breathing,” jokes Oliver Brown, Ultradent’s Brand Manager for the VALO cur-
ing light line. “People were saying what’s gonna happen? What are you gonna do with this thing? And I’m like, ‘we’re just gonna, launch it,’” he adds with a shrug and a smile.

Countdown

Marketers don’t tend to moolight as physicists, but Simmons, Brown, and others involved in the launch ran countless simulations to predict the balloon’s flight path and eventual landing spot for the payload. Fortunately for the “mathematically limited” folks of the world, there are websites that do the heavy lifting on these calculations and limit the poten-
tial for human error.

“We felt like we had a pretty good idea where it would come down,” says Simmons. “All of the predictions we ran...[but] we were going to pick it up at Flaming Gorge Reservoir, up over the Uinta (mountain range) and down around Flaming Gorge.”

When May 1 rolled around, weather was a large concern and the unpredictable conditions weren’t helping. Atmospheric conditions were favorable for the launch, despite the ground being about the launch of the balloon.

Dr. Fischer emblazoned his signature across the VALO Grand dental curing light and the team attached it to the outside of the cargo box opposite the bubblehead, both in frame of their own GoPro. Handwarmers were added to the payload to battle frigid at-
nospheric temperatures that could derail video efforts.

Ultradent’s front lawn was converted to a lunchpad and employees made up the peanut gallery. Dinners came out to watch the liftoff accompanied by their own festive balloons to release alongside the main payload. Following a “to, 9, 8, 7...” countdown necessary for all space travel, the balloons were released, with the weather balloon and its cargo quickly ascending beyond its party-favor brethren.

“We were on cloud nine as soon as we saw it go up into the sky,” says Brown. “Now we know how NASA feels,” adds a smirking Simmons.

Up, Up and Away

As the VALO curing light climbed and slipped from view Simmons, Brown, and crew piled into a vehicle to track the balloon. “We had the perfect day planned. We had this van, we had the video crew with us. We were going to follow the pings on our phones and laptops,” Simmons says.

“When we got in the minivan to start driving there, we were all 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, ‘oh 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 bunted 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 2:5 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 noo,’” 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 train we saw.”

Moments prior to liftoff on Ultradent’s lawn Successful launch

The point on the left marks where the payload landed, roughly 70 miles from the anticipated landing spot of Flaming Gorge Reservoir... but a supply was eventually secured. Just finding a vendor who would sell helium became a difficult endeavor, but Simmons, a cornerstone architect of the VALO Light to Space initiative, over liftoff. Atmospheric conditions were favorable for the liftoff, despite the ground being about the launch of the balloon.

“We felt like we had a pretty good idea where it would come down,” says Simmons. “All of the predictions we ran...[but] we were going to pick it up at Flaming Gorge Reservoir, up over the Uinta (mountain range) and down around Flaming Gorge.”

When May 1 rolled around, weather was a large concern and the unpredictable conditions weren’t helping. Atmospheric conditions were favorable for the launch, despite the ground being about the launch of the balloon.

Dr. Fischer emblazoned his signature across the VALO Grand dental curing light and the team attached it to the outside of the cargo box opposite the bubblehead, both in frame of their own GoPro. Handwarmers were added to the payload to battle frigid atmospheres that could derail video efforts.

Ultradent’s front lawn was converted to a lunchpad and employees made up the peanut gallery. Dinners came out to watch the liftoff accompanied by their own festive balloons to release alongside the main payload. Following a “to, 9, 8, 7...” countdown necessary for all space travel, the balloons were released, with the weather balloon and its cargo quickly ascending beyond its party-favor brethren.

“We were on cloud nine as soon as we saw it go up into the sky,” says Brown. “Now we know how NASA feels,” adds a smirking Simmons.

Up, Up and Away

As the VALO curing light climbed and slipped from view Simmons, Brown, and crew piled into a vehicle to track the balloon. “We had the perfect day planned. We had this van, we had the video crew with us. We were going to follow the pings on our phones and laptops,” Simmons says.

“When we got in the minivan to start driving there, we were all 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, ‘oh 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 bunted 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 2:5 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 noo,’” 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 train we saw.”
Opalescence™ tooth whitening systems

30 YEARS OF OPALESCENCE

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 and the past twelve months will certainly prove difficult to beat. The brand saw their market grow phenomenally, particularly in Middle Eastern Markets which boasts an extremely loyal following. The brand credit their 2019 success to a number of factors – their commitment to providing top-class at-home teeth whitening with formulations that are yet to be replicated, and their drive to bring first to market products that wow both consumers and dentists alike. The brand has continued to stay well ahead of competitors and are certain that they will see even more success this coming year.

If 2019 was anything to go by, this year is set to be monstrous for the brand. Not only are they entering the new year with a number of proprietary accolades under their belt, they will also be showcasing some of their most recent ground-breaking products yet, one of which is set to be released imminently.

This year, the ever-popular oral care brand will be exhibiting at the AaEDC Dental Exhibition in Dubai, which takes place from February 04-06. The team are really excited to be heading back to see what is as seen as one of the most prestigious dental exhibitions worldwide. The exhibition offers Beverly Hills Formula the opportunity to interact with dentists and suppliers who attend from all corners of 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.

The brand will be bringing along their most popular whitening systems including the NEW Professional White Range and Perfect White Range. The Professional White Range, which was launched in 2019, consists of Advanced Pearl whitening toothpaste, Advanced Silver whitening toothpaste and Advanced Sensitive whitening toothpaste.

As well as the brand, this year will also be showcasing the ever popular and iconic Perfect White Range. The range consists of the first and only activated charcoal toothpaste, Perfect White Black, as well as Perfect White Gold, Perfect White Black Sensative and Perfect White Optic Blue. Two high performing gold and black mouthwashes also form part of the range which has soared in popularity and don’t look to be slowing down any time soon.

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, anti- etching formula provides a whitening effect that is visible after just one use whilst hydrotised 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 to further enhance whitening results.

Beverly Hills Formula are excited to embark on another ground-breaking and exciting year, and look forward to kicking off this off at the AaEDC Dental Exhibition in Dubai, where they are hoping to see you to check them out at stand 65D08 – there is truly something for everyone.

DTI looks back on a successful 2019

LEIPZIG, Germany: There is seldom a quiet news day in the dental industry and it has been a pleasure for the DTI to work with you throughout 2019, the year that mattered as much as a suite of continuing education (CE) opportunities and events. As 2020 approaches, we look back on some of the milestones that DTI reached as a publisher and industry partner during the last twelve months, and we also look ahead excitedly at what promises to be an engaging and prosperous year in dentistry.

Back in February, DTI shared with readers that the industry was in a state of flux, but that the year was set to be prosperous and productive for dentistry.

In March, DTI’s work in e-learning was the focus of a new feature in DTI’s digital – in- house magazine Smyle. Published in collaboration with the Berlin-based Luna Media Group, Smyle combines lifestyle, beauty and wellness with a patient-oriented focus on dentistry and oral health.

Two issues of Smyle have already landed in dental offices throughout Germany, Austria and Switzerland. The next issue will hit the shelves in early 2020 and plans are being finalised for an English-language international edition.

E-learning remains a talking point

The online e-learning platform DT Study Club was a hive of activity during the last twelve months, with the portal also giving manufacturers an opportunity to meet with dentists and consumers alike. The brand saw their market grow phenomenally, particularly in Middle Eastern Markets which boasts an extremely loyal following. The brand credit their 2019 success to a number of factors – their commitment to providing top-class at-home teeth whitening with formulations that are yet to be replicated, and their drive to bring first to market products that wow both consumers and dentists alike.

The brand has continued to stay well ahead of competitors and are certain that they will see even more success this coming year.

DTI will be on-site at all of the major dental events next year, and our today show dealers will keep you informed at leading events, including ADEED Dubai 2020 (taking place from 4-6 February at the Dubai International Convention and Exhibition Centre), AEEDC Dental Exhibition in Dubai, taking place from 24-26 April at Suntec Singapore Convention and Exhibition Centre) and the FEW World Dental Congress 2020 in Shanghai (taking place from 3-5 September at the National Exhibition and Convention Centre).

As we stand on the threshold of a new decade, it is exciting to imagine what the future might bring for dental practice, international dental markets, dental technologies, and all of our professional partners. It will be wonderful to take this opportunity to thank all of our readers and industry partners for their continued support. We wish you and your families a very happy and safe holiday season, and a good ‘bold and daring’ new year, as the saying goes in Germany.
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

<table>
<thead>
<tr>
<th>Toothpaste</th>
<th>Percentage Stain Removal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Beverly Hills Formula Professional White Black Pearl</td>
<td>69.7%</td>
</tr>
<tr>
<td>Beverly Hills Formula Perfect White</td>
<td>65.4%</td>
</tr>
<tr>
<td>Beverly Hills Formula Perfect White Black</td>
<td>62.1%</td>
</tr>
<tr>
<td>Beverly Hills Formula Professional White Pink Pearl</td>
<td>61.4%</td>
</tr>
<tr>
<td>Colgate Sensitive Pro-Relief &amp; Whitening</td>
<td>51.5%</td>
</tr>
<tr>
<td>Colgate Max White One</td>
<td>51.0%</td>
</tr>
<tr>
<td>Arm &amp; Hammer Advanced White Extreme Whitening</td>
<td>40.0%</td>
</tr>
<tr>
<td>Colgate Max White with microcrystals crystal</td>
<td>44.7%</td>
</tr>
<tr>
<td>Sensodyne Rapid Relief</td>
<td>29.5%</td>
</tr>
<tr>
<td>Oral-B 3-3</td>
<td>28.1%</td>
</tr>
<tr>
<td>Sensodyne Repair and Protect</td>
<td>24.3%</td>
</tr>
<tr>
<td>Oral-B Pro-Sensitive</td>
<td>14.7%</td>
</tr>
<tr>
<td>Cusaprox Black is White</td>
<td>12.3%</td>
</tr>
<tr>
<td>Sensodyne Pro-Enamel Gentle Whitening</td>
<td>9.4%</td>
</tr>
<tr>
<td>Dristened Water</td>
<td>8.5%</td>
</tr>
</tbody>
</table>
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 maxillary central incisors, which had been placed 15 years previously to close her diastema. 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.

Case Overview

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.

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 tight contact points and desired anatomical form.

Removal of second matrix revealed a natural shape. Composite excess was easily removed from the incisal edge.

Restoration surface was polished with 3M™ Sof-Lex™ Pre-Polishing Spiral (beige) of the 3M™ Sof-Lex™ Diamond Polishing System.

New composite restorations blended well with natural surface of central incisors.

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?
Mastering black holes with premium endo-brands

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-Segment with the acquisition of the French expert MicroMega. The now combined product portfolio offers an even more customized range of files and endodontic equipment.

Product range for new endodontic dimensions:
- HyFlex EDM and CMD MicroMega One Curve and MicroMega Z2Shape NiTi file systems
- All-inclusive system comes with two quick-connect batteries and extra tips. The intuitive battery management features a built-in radiometer and room for additional batteries. The futuristic multifunctional charging base supports constant availability. Cutting-edge lithium ion phosphate cell technology ensures that the beam completely encompasses the curing area. More than the scope of a pure curing light and in conjunction with the acquisition of the French expert MicroMega, the COLTENE Group has strengthened its position in the Endo-Segment with the acquisition of the French expert MicroMega.

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

An artistic reconstruction of what “Lulu”, the woman who chewed the birch-bark pitch, may have looked like. (Image: Tom Björklund)

By Dental Tribune International

COPENHAGEN, Denmark: Though its popularity and constituent ingredients have changed over the centuries, chewing gum has been used by humans for thousands of years. A new study out of Denmark that analysed a 5,700-year-old piece of chewing gum made from birch bark pitch has succeeded in extracting a complete human genome from the pitch, demonstrating its potential as a new source of ancient DNA.

The pitch was found during 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 hazzelfruit 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.

“[Syltholm] is the biggest Stone Age site in Denmark and the archaeological finds suggest that the people who occupied the site were heavily exploiting wild resources well into the Neolithic, which is the period when farming and domesticated animals were first introduced into southern Scandinavia,” said Dr Thes Jenssen, a postdoctoral student at the University of Copenhagen’s Globe Institute and the co-author of the study.

“We managed to extract many different bacterial species that are characteristic of an oral microbiome,” added Dr Catherina Schroder, 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 bark 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 the purpose of chewing it was. Some researchers have suggested that it may have been a method for making the pitch more pliable for further uses, whereas medicinal and hunger-suppressing uses have also been put forward for consideration.

The study, titled “A 5,700-year-old human genome and oral microbiome from chewed birch pitch”, was published on 17 December 2019 in Nature Communications.
MASTERING "BLACK HOLES"
with Premium Endo-Brands

HyFlex
EDM & CM NiTi files

MicroMega
One Curve & 2Shape NiTi files

ROEKO GuttaFlow
Cold filling system for root canals

CanalPro
Endodontic irrigation system

ParaPost
Fiber and metal post systems

Coltene
endo.coltene.com
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 surgery 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 XT5 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 a standard metal mirror head, 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. Tammi Wanless, RDH, MED, from USA, states about the product: “I wear loupes with a LED light and noticed a significant difference in the quality of vision. The light reflection issues have definitely been solved with Hu-Friedy’s new HD Black Line Mirror!”

Fig. 2

By Dental Tribune International

RESTORATIVE

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

By Dental Tribune International

BASEL, Switzerland/Helsinki, Finland: Haematopoietic stem cell transplantation is used to treat cancer 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 transplanted at the University Hospital Basel, of whom 341 had received an allogeneic stem cell transplantation and 125, an autologous stem cell transplantation.

The procedures were carried out between 2008 and 2016. Before the transplantation, all patients underwent a clinical and radiographic dental examination to identify any potential foci of infection and the number of missing and filled teeth. A total of 53 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 examinations 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,” said lead author Prof. Tuomas Walimo, 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,” Walimo noted.

Follow us on:
@HuFriedyEU
@HuFriedy_europe
@Hu-Friedy_WigCo, LLC EU

The results of a recent study have suggested that radical treatment of acute and chronic oral infections could be postponed until after haematopoietic stem cell transplantation. (Image: Vadym Wedmov/Shutterstock)
High Definition Black Line Mirrors
Proven to Reduce Glare up to 80%*

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 mate 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.

Akro-Flex™
Create Beautiful Restorations

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.

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

• 120% reflectivity factor for exceptional image clarity.
• 30.5% brighter than rhodium-coated mirror glass.
• 50% brighter than other front surface mirror glass.

* When comparing to our standard DLC coated mirror head and handle to the Hu-Friedy new coating: mirror head and handle.
† Data on file and available upon request.

Watch the video
Frame the QR Code on your smartphone and watch directly on YouTube. Video courtesy of Neostore.it

Unparalleled Flexibility
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.

Ergonomic Handle
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 clinician’s 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.

Middle East
Your Hu-Friedy Dealer
Egypt: Safwan EgypCo, Cairo
Iraq: Al-Ijaaz scientific bureau
Jordan: Basmat Medical Supplies
Kuwait: Advanced Technology Company K.S.C.
Lebanon: Pharmacoel

Gulf Region
Your Hu-Friedy Dealer
Bahrain: Gulf Pharmacy
Oman: Al Farsi National Enterprises LLC
Qatar: Ali Bin Ali
Saudi Arabia: Al-Turki Medical Group Ltd.
UAE: Arab Emirates: ALPHAMED General Trading LLC

Visit us online at hu-friedy.eu
2019 GNYDM highlights latest dental products and technologies

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 DIGIRAY.

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, temporization 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 10S, 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.
GUIDED BIOFILM THERAPY

Caries and Perio Prevention and Maintenance

The original. The master. The game changer

Discover the AIRFLOW PROPHYLAXIS MASTER and enjoy your GBT Appointment during the next AEEDC in Dubai - 4th-6th February 2020

The GBT Compass and its 8-step protocol

01 Assess
Probe and screen every clinical case
- Healthy teeth, gums, gingivitis, periodontitis
- Healthy implants, mucositis, peri-implantitis
- Start by rinsing with BioClin" Pre-mouthwash

02 Disclose
Make biofilm visible
- Highlight to patients the disclosed biofilm and their problems arose with EMS biofilm disclosure
- The color will guide biofilm removal. Once biofilm is removed, calculus is easier to detect

03 Motivate
Raise awareness and teach
- Emphasize prevention
- Instruct your patients in oral hygiene
- EMS reinforece Phillips
- biofore. interdental brushes and Airfloss Ultra

04 Airflow
Remove biofilm, stains and early calculus
- Use AIRFLOW® for natural teeth, restorations and implants
- Remove biofilm supra- and subgingivally up to 10 mm
- Using AIRFLOW PLUS+ Dual Powder
- Also remove biofilm from gingiva, tongue and palate
- Remove remaining stains on enamel using AIRFLOW® CLASICO Comfort Powder

05 Perioflow
Remove biofilm, plaque and supragingivally
- Use Perioflow® powder on natural teeth in deep pockets and root faculae
- Use Perioflow® powder on implants
- Use Perioflow® toothbrush

06 Piezon
Remove remaining calculus
- Use the minimally invasive EMS PIEZEX® PS instrument supragingivally up to 10 mm
- Clean 2.0 mm pockets with mini-connect
- Use EMS PIEZON® PS instrument supragingivally up to 3 mm

07 Check
Make your patient smile
- Do a final check for removing 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

ems-dental.com
Copyright 2018 EMS. Electro Medical Systems.
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 8:30 the next morning I logged on and saw we got ping... interesting 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 get this thing.”

We knew we were going to get it, go rescue it. We were making jokes 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 get this thing.”

“About 8:30 the next morning I logged on and saw we got ping... interesting 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 get this thing.”

We knew we were going to get it, go rescue it. We were making jokes 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 get this thing.”

“We knew we were going to get it, go rescue it. We were making jokes 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 get this thing.”

“We knew we were going to get it, go rescue it. We were making jokes 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 get this thing.”

“We knew we were going to get it, go rescue it. We were making jokes 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.
PURE SIMPLICITY

Control your entire implant and oral surgery motors using a single rotary knob. The new Chiroprors from Bien-Air Dental have been designed around a single philosophy: simplicity.

Visit us!

AEEDC 2019
February 04-06, 2020 - Dubai
Swiss Pavilion, Booth #8E08
"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 slop. "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.

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

The daunting hill of shale.

The VALO Grand dental curing light overlooking the valley.

Brown and Loyola hear the VALO Grand curing light’s BEEP. The LED of the VALO curing light firing up after a trip to space and 126 days in the elements.

Legend says Brown’s shrieks still echo in the valley below.

The VALO Grand curing light, resting where it was spotted by Simmons.
New evidence supporting solutions for a range of patient needs

- Healthier gingiva
- Improved orthodontic care
- Reduced oral malodor

There’s always a way to make life better. Visit philips.com/clinical to read the studies.
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 following factors which we take into consideration when treatment planning in my practice: 1. Treatment longevity, 2. Cost estimation, 3. Vitality of the tooth, 4. Biological cost, 5. Expectation of the patient.

Patient Case

A 28 years old female patient visited our clinic requesting for a beautiful smile with less tooth destruction at a reasonable cost as the gap between her front teeth had affected her confidence to smile for a long time (Fig. 1). Other dentists had suggested orthodontic 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
  - Etching 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 HVT (High Value Translucent)
- Finishing & Polishing – Fine Diamond Points, Super Snap X-treme Kit
- Super Polishing for high gloss – DirectDia 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 reevaluating 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 recipe is identified for build-up of each restoration.
The One True INJECTABLE

NEW with X-FACTOR

Smart Solution for Universal Restorations

Xceptional Aesthetics

Bio-active

Xtra Strength

For more information, please contact your nearest Shofu Dealer TODAY!

SHOFU DENTAL ASIA-PACIFIC PTE. LTD.
www.shofu.com.sg
Tooth Preparation:
Rubber dam was placed from premolar to pre-molar to help isolate the teeth to enhance vis-
bility and eliminate contamination with sul-
cular fluid. The labial enamel surface of both central incisors were minimally prepared us-
ing Super Snap Violet disk to seamlessly blend the restoration margins on both labial and pal-
atal sides. (Fig 7). Before proceeding with the adhesive step, it was important to protect the
access to lateral incisor teeth with Teflon tape.

Composite Build-up
After adhesive etching of the restorative en-
mal surface with Phosphoric acid (Fig.8), FL-Bond II, a 6th generation 2-step adhesive system was
selected. First the Primer was applied, left for 10 seconds and air dried, followed by the appli-
cation of bonding agent which was light cured for 10 seconds. (Fig. 9). The palatal shell was
created with the silicone index using Beautifil II Enamel shade T. Beautifil II LS opaque shade
A2O was placed on the incisal edge to achieve a natural halo effect for enhanced aesthetics.

Selection of the right tools for finishing and
tech wear at bone surfaces: 
PIEZOSURGERY inserts with
clinicians for clinicians

PIEZOSURGERY inserts with
clinicians for clinicians
THE FUTURE OF BONE SURGERY
PIEZOSURGERY® white

→ best cutting efficiency and maximum intraoperative control
→ perfect ergonomics
→ over 90 inserts specifically designed for a wide variety of clinical applications

VISIT OUR BOOTH 4E09 AT AEEDC DUBAI, 4-6 FEBRUARY 2020

www.mectron.com
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 iO 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 iO. Introduced at a press conference hosted by parent company Procter & Gamble during the Consumer Electronics Show (CES) in Las Vegas, the Oral-B iO 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 iO was given the distinction of being one of this year’s CES Innovation Award Honorees, an annual accolade that recognizes outstanding new consumer technology products.

Oral-B iO is a new power toothbrush series that has been reimagined and redesigned from the inside out, combining best-ever clinical performance with a superior user experience, making it one of the industry’s most advanced brushing products. Oral-B iO 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 iO uniquely features a frictionless magnetic 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 iO brush head, which has been engineered to combine oscillating and rotating cleaning motions with microvibrations for a professional clean feel.

“There is nothing like the Oral-B iO. It introduces a new era in brushing and is a monumental leap in innovative oral care technology,” said Steve Bishop, P&G Health Care CEO. “The result of years of expert development, Oral-B iO 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.”

As a result of input from more than 1,800 consumers, the Oral-B iO includes five key pillars of design features and experience capabilities:

• Linear Magnetic Drive: created from the need to deliver a more effective and enjoyable brushing routine. Producing controlled, harmonious movements, the quiet and frictionless linear drive system efficiently transfers more energy directly to the bristle tips.

• Superior Cleaning Action and Re-designed Brush Head: Oral-B iO brush heads combine oscillating, rotating movements with microvibrations to ensure a deep clean that reaches every contour. The brush head has been redesigned with twisted bristles, and reinforced with high-density tuft-in-tuft configuration for a sensational brushing experience.

• Bimodal Smart Pressure Sensor: an innovation that is the first of its kind to provide positive brushing feedback, identifying and guiding users to brush in the optimal pressure range. The Sensor features a variable-speed smart drive that adjusts frequency to protect gums and enamel.

• Smart Display with Personalized Brushing Modes: an intuitive interface that greets users, while also providing coaching and motivation throughout the cleaning process. Features up to seven brush modes for a highly personalized experience.

• Artificial Intelligence Tracking via the Oral-B iO App: provides real-time individual tracking and coaching, thanks to artificial intelligence informed by thousands of

...
ZirCAD Prime
Redefining all-ceramics – featuring Gradient Technology:
High-end esthetics and 1200 MPa for all indications*

*z ranging from single tooth crowns to 14-unit bridges

www.ivoclarvivadent.com
Ivoclar Vivadent AG
Bernerstr. 2, 9494 Schaan, Liechtenstein | Tel. +423 235 35 35 | Fax +423 235 33 60
Digital chairside dentistry. Redefined.

For CEREC users, it’s simple: CEREC makes even the best dentists better.

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.

With a new, best-in-class milling unit and highly automated, intuitive software to go with the CEREC Primescan, there’s never been a better time to future-proof your practice with CEREC.

The all-new CEREC gives you the tools for superior digital chairside dentistry.

The latest generation of our CEREC system sets new standards so you can offer patients an unmatched combination of single-visit dentistry and excellent quality. After 35 years of continuous optimization, CEREC gives you the options you need to treat multiple indications with the confidence that comes from outstanding results.

A unique solution designed for superior digital dentistry.

The CEREC system comprises world-class components that interact perfectly ensuring seamless workflows. CEREC Primescan quickly delivers highly accurate scan data to the new CEREC Software 5, supporting you with patient-specific proposals based on the patented bigjaw algorithm. But the powerhouse of the system is the new CEREC Primescan. With this state-of-the-art milling unit, digital chairside dentistry is faster, easier and more reliable than ever before. The all-new CEREC. Now is the time.

The SphereTEC revolution continues...

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, esthetic results efficiently.

Dentsply Sirona’s latest innovation in composite filler technology, SphereTEC, was introduced to dentistry in 2009. SphereTEC fillers are spherical-shaped, pre-polymerised fillers created from sub-micron barium glass. Their morphology, particle size distribution, and surface micro-structure 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 or Spectra’s 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 nanofillers 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

*VITA® is not a registered trademark of Dentsply Sirona Inc.
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 single 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/signup.
The complete digital implant workflow

By Drs Kirill Kostin, Mikhail Erohin, Oleg Ponomarev & Maxim Kozhevin, Russia

Planmeca is known for its high-tech innovations and continuous product development. The company’s powerful Planmeca Romexis software platform allows all stages of the dental implant and aesthetic prosthodontic treatment to be completed using one piece of software, from the computer-assisted design of patients’ smiles to the fabrication of surgical guides.

The following clinical case, which I performed together with my colleagues Dr Ponomarev, Dr Kozhevin and Dr Yarokhin, illustrates how digital solutions can be used in prosthetic treatment, implant placement and restoration design. According to our experiences, digital CAD/CAM technologies enable maximal functional and aesthetic results compared to traditional methods.

Clinical case report

The clinical case illustrates the advantages of using Planmeca CAD/CAM solutions in the digital planning of an implant placement and surgical guide, as well as in the fabrication of a ceramic restoration. This article presents a clinical case in which the treatment was completed using Planmeca Romexis 3D Implant Guide software, Planmeca PlanCAD Premium software and Planmeca PlanMill 40 milling unit.

The clinical case features a female patient, who complained about missing tooth #22, as well as the shield-like shape of tooth #12 (Figs. 1 & 2). During the initial examination, the area around the missing tooth was estimated to be quite narrow for an implant. However, the patient declined orthodontic preparation, as she had already previously had orthodontic treatment with orthodontic surgery.

In this particular case, we started with an aesthetic analysis of the patient’s CBCT data and concluded that a Straumann implant with a 2.9 mm diameter would fit in the area of tooth 22, if we used a surgical guide for maximum precision (Figs. 3–5). For tooth #12, we decided to fabricate a thin-walled IPS e.max ceramic restoration (Ivoclar Vivadent).

Thanks to digital planning and a carefully fabricated surgical guide, the implant was placed successfully, even though the anatomical conditions appeared to be less than advantageous. We achieved a torque of 30 Ncm and attached a healing abutment to the implant (Figs. 6 & 7).

Three months after the implant placement operation, the osseointegration of the implant fixture was completed. A temporary crown was fabricated on the implant from a Planmeca PlanMill 40 milling unit.

Figs. 2 & 3: The patient’s upper teeth before treatment.

Figs. 2 & 3: Digital implant and surgical guide planning in Planmeca Romexis software. Fig. 5: Surgical guide was fabricated for maximum precision.

Figs. 6 & 7: Successful placement of the implant.

Figs. 8–10: Temporary crown was installed to support the formation of soft tissues.

Figs. 11–13: Crown lengthening was performed on tooth #12.
VITA ENAMIC multiColor block to support the formation of soft tissues (Figs. 8–10). We improved the original design on the Straumann superstructure with gum contouring. On tooth #12, crown lengthening was performed with an electrocoagulator (Figs. 11–13).

Once the formation of the soft tissues was complete, tooth #12 was minimally prepared for the ceramic crown with the help of a surgical microscope. After the preparation, the teeth were scanned in order to digitally design a custom abutment and crowns (Figs. 14–19).

The final smile design was planned digitally together with the patient. For the implant structure, we chose an individual zirconium abutment screw with a ceramic facing and a fully anatomical Empress crown (Figs. 20 & 21). The ceramic facing concealed the excessive brightness of the zirconium, and we were able to achieve the desired colour. Thanks to the digital workflow, we managed to fulfil the wishes of the patient. (Figs. 22–24).

Conclusion

With digital technologies, the entire implant workflow can be completed in the dental clinic, from planning to fabrication of the restorations. Digital planning increases the reliability of the implant treatment and helps the dentist to succeed in the operation. Digital tools allow achieving the maximum functional and aesthetic result even in combined operations in which an implant placement and surgical guide accurately and with just a few mouse clicks.

Finally, digital technologies also enable visualising the treatment outcome for the patient. Clear visualisations of the end result facilitate communication with the patient, which, in turn, can increase case acceptance.

About the author

Dr Kirill Kostin graduated from Saint Petersburg State Medical University in Russia in 2004. He became the co-founder of the PerfectSmile dental clinic and dental study centre in 2014. At his clinic in Saint Petersburg, Dr Kostin runs a private practice concentrating on the aesthetic and functional rehabilitation of natural dentition and implants, applying various digital instruments as part of restorative procedures (digital smile design, intraoral scanning, CAD/CAM milling, 3D printing, and guided surgical procedures). Using a dental microscope on a daily basis, Dr Kostin focuses on minimally invasive restorative procedures with direct and indirect restorations. This particular case Kostin performed together with his colleagues Drs Mikhail Erohin, Oleg Ponomarev and Maxim Kishchev.
24 - 26 April 2020
Suntec Singapore
THE LEADING DENTAL EXHIBITION AND CONFERENCE IN ASIA PACIFIC

INTRODUCING THE IDEM 2020 MAIN CONFERENCE SPEAKERS

SDA Masterclass
Shimon Friedman

Mark Wolff

Brian B. Novy

Thuan Dao

Axel Spahr

Fadi Yassmin

Mohamed Hassanien

Mitsuhiro Tsukiboshi

Roberto Turrini

Suchada Kong-iatkamon

Peet van der Vyver

What's New for IDEM 2020 Conference Programme

Special Care Dentistry Symposium
Highlighting the treatment needs of patients with special needs, this full day forum is one of the first in Asia to focus on this niche topic in dentistry.

IDEM EduHub @ Level 6
Join our free on-floor sessions and learn more about topics beyond dental including marketing, volunteering and more.

Enjoy 5% off Early-Bird Rates With the Code DTME@IDEM6C3PD
I was a witness to the opening of the first ever Sirona showroom office opening in Dubai, 10 years ago. Remembering Dr. Amro Adel, your General Manager for the MENA region, working countless hours from making everything himself even the design and it was excellent. I am a witness of this long successful journey and to reach the success with Sirona here, now Dentsply Sirona, what is your first impression of the Dentsply Sirona Middle East office?

Don Casey: The office is gorgeous and highly well-staffed, with the right equipment and great space. I would say this is one of our best training facilities in the world. Walter Petersohn and I travel constantly, and I would put this office among the best.

“The Dentsply Sirona office here is beautiful, showcasing our products and offering outstanding training facilities to our customers.” – Don Casey, CEO, Dentsply Sirona.

In February 2016, Dentsply and Sirona merged resulting in the largest dental manufacturing company in the world in dental products and technology. Currently the company has 15,000 employees so how have you managed to keep the company consistently strong in terms of strategy and culture? This question is in particular regarding the Middle East due to its multicultural environment, religions and most importantly crucial parties having different educational backgrounds.

Don Casey: When trying to integrate companies, whether it is a homogeneous market, like North America or a multicultural environment, like the Middle East, you have to start with a single goal: the customer. At Dentsply Sirona, we are all unified around the idea that if we focus on helping the half million dental professionals around the world and improve their practices, that’s what will create a united culture. Whether you are Egyptian, German or American, our goal is to help dentists deliver better oral care and smiles to their patients. That is what we do.

The education here in the Middle East is the challenge especially due to the different educational backgrounds coming with different approaches from different countries. This is very challenging, but I am certain we can manage well in the Middle East in terms of education.

Don Casey: Clinical education is key to us. Providing dental professionals with essential knowledge is one of our main goals. One of the conversations we’ve had with Dr. Amro Adel was this region has done an exceptional job because of great partnerships, like we have with you, in focusing on clinical and lab education. We have to consider that we need to do things differently in Saudi Arabia compared to Egypt or Morocco. For example, how we teach Class II restorations or digital dentistry, when dealing with different backgrounds and the complexity of each region.

How important is the Middle East dental market to Dentsply Sirona? And for which reasons?

Walter Petersohn: Super important. This isn’t an easy market, but it is a growth market. Growth markets attract us. Over the last five years we’ve learned a lot, and with Dr. Amro’s help, we have put together a magnificent team and all the building blocks to accelerate growth. Compared to Europe or the U.S., there are different aspects in this market, and you need a leadership team that is aware of these elements. The formulation for success involves local partnerships, local involvement of trainers, customers and key opinion leaders. All that combined with a good portion of focus is really the basis for growth. The Middle East is complex, and a lot of countries fear the region, but we have a long history in the region and expertise. We have many people with over 20 years’ experience on our team, so we know how to grow.
the business, to build it, accelerate it, and we are excited. This is why we continue to invest in facilities here, and why we continue to grow the team and increasingly invest in clinical education.

Which product line do you feel is best represented in the Middle East region and which ranges still require more awareness? What are some of the solutions dental professionals can expect in the Middle East in the future?

Walter Petersohn: First, it is important to understand that people know our brand. It is known through our presence, our innovation and how we remain active in certain segments and fields. Clearly, everything that is digital, combining procedures into digital workflows, aligners, implants, restorative materials and the

endo solution process, have become very popular. Our task is to make sure we stay with our strongholds and accelerate in these areas, and we continue to support dental professionals with our innovations, both in the product and the procedure level, so they can be successful and help patients smile. Again, this means focus. Countries vary, hurdles vary, it is multidimensional but a big opportunity.

“Over the last five years we’ve learned a lot, and with Dr. Amro’s help, we have put together a magnificent team and all the building blocks to accelerate growth.”

– Walter Petersohn, CCO, Dentsply Sirona

How far ahead down the years do you plan when it comes to innovation planning and introducing novelties in the Middle East? What is your forecast and vision?

Don Casey: You will understand some we cannot talk about. We want to emphasize a number of different businesses, but I think Walter Petersohn said it very well: we believe digital is the future. Whether that is the evolution of 2D to 3D, the migration with CAD/CAM, chairside dentistry or Primescan, it’s a substantial digital business. But there is also Orthodontics and the Implants business too. When we look at the region, our Endodontic business plays an important role. This is an area where we have a lot of history and tenure. We went from hand files to digital, to reciprocating files. And the Middle East has played an important role in the growth and will continue to be a great emphasis here. In our mind, we look at different blocks of innovation, and digital will be one. We believe that we are at the beginning of what we think endodontics will be like over the next decade. We’re also excited about our implant business, which traditionally has not been a focus in the Middle East. But with someone like Dr. Amro, who has been making investment decisions in the region, we’re changing our direction and structure. Working closely with our customers in the region, he’s able to inform us on what should be our focus. From our point of view, the implants business will be good opportunity over the long-
term. At Dentistry Sirona, we used to think we have so digital businesses that all had to move at the exact same speed. But we learned that it makes more sense combining separate solutions to sensible product solutions and then sell the solution outside the box.

I am very excited about the advancement of digital dentistry and digital workflows, and with your new scanning system it can keep the data of the patient even after ten years from now. We can see how important it is starting from the very early stages of treatment plan to the production, to the scanning and diagnostic.

I remember we talked about this at Dentistry Sirona World in Las Vegas last year. We are not sure where we are going to end in the future. We now show patients a coherent long-term treatment plan over several years is very important. I am excited about the early stages of digital dentistry. Who knows where we will be in five years? I don’t think we have figured it out yet.

“Clearly, everything that is digital, combining procedures into digital workflows, aligners, implants, restorative materials and the end solution process, have become very popular.” – Walter Petersohn, CCO, Dentistry Sirona

It is good because we can keep data of the patient, even in investigational patients, we will search for the papers in the clinic. It’s just digital. What is the process of going from Dentistry Sirona starting from the product innovation down to educating the dental professional, dental technician, dental hygienist, dental assistant, even dental managers - the full circle?

Walter Petersohn: As you mentioned, it is a multi-element process. The one thing we can clearly state: the more, the better; the deeper we educate and train, the faster you will get results. It may be difficult if you had an impression of a patient’s mouth, and you as a dentist could tell them that their teeth will get worse and a years later it really does. Patients decide, we should show patients a coherent long-term treatment plan, right? That is digital, combining procedures into digital workflows, but it is also digital in the sense of education. It will be good in the future to process more webinars. The more you can get the local voices and faces. Two days ago, we were in the office in Moscow and the technique and work were probably better than anything I have ever seen. I would love the world to learn best practices from all over the globe. There’s not just one centre. The power sits in localising activities. We reduced the regional responsibilities to have our leaders more engaged and involved with our customers, dealer partners and staff. The same is true for training. The more you can get local leaders involved in training and education, same country, same language, the better you can convince local customers of the quality of products.

How important are the dental dealers in Middle East for Dentistry Sirona International?

Walter Petersohn: They are very important, also because of the geographical diversity. There’s no way we would ever be able to cover this gigantic region without the help of the dealers. But that means we also have to train the dealers on our products so they can train the dental professionals. We usually bring together all the dealers, that’s what we do during our so-called Dealer Days. One of the challenges, depending on the region, is how can we help them with credit. Economically, it’s a challenge when dealing with different parts of the world, and different economical situations and so on. Ultimately, every day starts with us asking, how do we help our customers and the dealers are a critical way for us to help.

Do you have anything else to say to Dental Tribune Middle East readers?

Don Casey: First, we’re excited about your presence and the excitement of all your readers in the field of dentistry. We want your readers in the region to know that we mean it very seriously. This is why we believe in a local footprint and local staff. As you know, we are not just in Dubai, we have our teams all over the Middle East and North Africa region. This is a significant commitment! By putting the focus on the right areas and growing education, all of our customers and dental professionals around the region will see that, which will translate into new partnerships.
INTERNATIONAL NEWS

Cervitec liquid: new formula is a success!

Cervitec liquid from Ivoclar Vivadent now features an enhanced formula.

By Ivoclar Vivadent

The composition of the mouth rinse has been further optimized to improve the product’s taste. The new delicate mint flavour has been well-received, even by very taste-sensitive individuals. Cervitec Liquid makes the oral hygiene routine a pleasant and refreshing experience. This has been confirmed in a recent survey conducted by Ivoclar Vivadent amongst around 150 test subjects.

Cervitec Liquid is a ready-to-use alcohol-free mouth rinse for professional oral hygiene in the dental office and at home. The new formula contains xylitol, the provitamin D-panthenol and 0.1% chlorhexidine. Cervitec Liquid made an excellent first impression on the participants of the survey on the basis of its scent. Ninety-seven per cent of the respondents said that they liked it very much. They also gave the taste and feel of the liquid in the mouth a positive review. Eighty-six per cent rated the mouth rinse as being very mild to mild. Nonetheless, 87% reported that their breath felt clean and fresh after rinsing. As a result, it is not surprising that around 90% of the respondents said that they would continue using Cervitec Liquid in the future and recommend the product to someone else. Ninety-two per cent of the group already knew that they could buy Cervitec Liquid from pharmacies.

Rinsing with Cervitec Liquid is recommended for patients before and after implant, periodontal or orthodontic surgery in order to control bacteria in the oral cavity. It is also recommended for patients with a high caries risk, impaired oral hygiene or bad breath. Children over the age of six years may use Cervitec Liquid.

Cervitec® is a registered trademark of Ivoclar Vivadent AG.
Plaque

Help your patients wipe away the main cause of gum problems

meridol® – Clinically proven antibacterial efficacy

A powerful combination of stannous ions (Sn²⁺) and aminofluoride (AmF) directly targeting bacterial plaque.

For effective prevention of gum problems
»What drives me? Best results. And Primescan is my answer.«

Dr. Verena Freier, Dentist

Primescan
Engineered for superior performance.

Innovation requires commitment to ambition: Primescan sets new standards in dental technology, making scanning more accurate, faster and easier than ever. It is engineered to enable all kind of treatments, from single tooth to full arch. Primescan produces highly accurate images and allows for fast scanning consolidating 50,000 images per second. The new patented “High Frequency Contrast Analysis” delivers perfect sharpness and an outstanding accuracy. With Primescan, intraoral scanning delivers excellent results like never before.

Enjoy the scan.
Learn more at: dentsplysirona.com/primescan