Nanodiamonds might help prevent tooth loss after root canals

UCLA research shows the particles enhance gutta-percha strength and infection control

People undergoing root canals may have gained a powerful, if tiny, new ally. Researchers from the UCLA School of Dentistry have found that using nanodiamonds to fortify a material used in the procedure could significantly improve outcomes for patients.

A paper on their research is published in a recent issue of the peer-reviewed journal ACS Nano.

Nanodiamonds are tiny particles formed as byproducts of diamond refining and mining. Thousands of times smaller than the width of a human hair, they have been widely explored for use in dentistry, cancer therapy, imaging and regenerative medicine, among other applications.

Each year, more than 15 million root canal procedures are performed in the United States. Dentists’ goal is to save their patients’ teeth from infected dental pulp. During a root canal, inflamed dental pulp is removed and the empty space is then filled in with gutta-percha, which is used in part because it does not react within the body. But some root canals don’t entirely remove the infection, and residual infection after root canals can lead to tooth loss.

In addition, traditional gutta-percha can have certain shortcomings, including a limited capacity to ward off infection and less-than-optimal rigidity. To overcome those issues, the UCLA team developed and tested two types of reinforced gutta-percha: one strengthened with nanodiamonds and another strengthened with nanodiamonds that had been pre-loaded with antibiotics.

To evaluate the first type, Sue Vin Kim and Adelheid Nerisa Limansubroto, study co-authors who are UCLA School of Dentistry students, filled actual teeth from human patients. Using conventional radiography and micro-computed tomography, or micro-CT, they showed that the nanodiamond-enhanced gutta-percha could be used to fill the tooth.

Like the traditional formulation, the nanodiamond-enhanced compound did leave small gaps in the canal — where Nanodiamonds might help prevent tooth loss after root canals

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infection. The drug-reinforced nanodiamonds used to combat the infection had been loaded with amoxicillin, a broad-spectrum antibiotic used to combat bacterial infection. “Through their ingenuity and collaboration, Professor Ho’s team is poised to transform the way that dentistry is practiced,” said Dr. No-Hee Park, dean of UCLA Dentistry and a co-author of the study. During the next two years, the team plans to optimize the formulation of the nanodiamond-reinforced gutta-percha and begin clinical trials at UCLA.

Ho is also a professor of bioengineering and member of the UCLA Jonsson Comprehensive Cancer Center and the California NanoSystems Institute at UCLA. Other authors of the study were Albert Yen of the UCLA department of bioengineering and UCLA School of Dentistry, and Akrivoula Soundia, Yong Kim, We- nyuan Shi, Dr. Christine Hong, Dr. Seorim S. Tetradis, Dr. Cun-Yu Wang and Dr. Mo Kang, all of UCLA School of Dentistry. The study was supported by the National Cancer Institute, the National Science Foundation, the Wallace H. Coulter Foundation, the V Foundation for Cancer Research, the Society for Laboratory Automation and Screening, and Beckman Coulter Life Sciences.

(Source: UCLA School of Dentistry)
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Nanoscale fiber strengthens composites

Result is described as stronger, longer-lasting — and with low shrinkage stress

NovaPro Flow, designed and created by Nanova Biomaterials, is the first commercial dental composite reinforced by nanofibers. The in-house made hydroxyapatite nanofibers, composed of calcium phosphate minerals, are secret to NovaPro Flow’s high strength, great handling properties and esthetic effects, according to the company.

Teeth, bones and nanofibers have the same structure, all composed of a hard inorganic mineral in a soft organic matrix. For example, the enamel of a tooth is made up of high-volume, needle-like mineral crystals (approximately 15–20 nanometers thick and 1,000 nanometers long) in a small-volume, soft protein matrix. Bone and dentin are made up of plate-like crystals (approximately 2–4 nanometers thick and up to 100 nanometers long) embedded in a collagen-rich protein matrix. By comparison, the nanofibers have a thickness under 100 nanometers in diameter, or 1,000 times smaller than human hair.

Most dental composites comprise only nanoparticles, while NovaPro Flow reinforces the composites with nanofibers, adding several advantages. The strength found in the nanofibers is due to its one-dimensional nature and large surface area. If you apply a shear force to a bunch of nanoparticles, it is easier for the particles to slide by each other. A fiber, on the other hand, has a solid connection that is stronger to resist bending, shear and tensile forces. In comparison, synthetic bulk hydroxyapatite typically has a tensile strength of approximately 50 MPa, which would not be able to reinforce a dental composite.

The large size would also lead to polishing problems. The larger surface area of nanofibers provide better transfer of strength for the fiber and the dental composite alike.

During World War I, A. A. Griffith discovered the correlation between strength and the small size of ceramic materials, such as enamel, by testing different thicknesses of glass. According to the Griffith theory, these needle-like mineral crystals can reach their theoretical strength, or maximum strength, of a material (several or tens of GPa) when their diameters are in the nanoscale. Microscopic flaws cause a material to fail, so by creating a nanoscale fiber, statistically, it limits the amount of flaws and provides the ability to reach the material’s maximum strength. In addition, such mineral crystals at nanoscale are not sensitive to cracks or stress concentration, which typically degrades when produced on a micro or macro scale. The fibers are able to bend without breaking. The high strength and low sensitivity to cracks found in natural nanocomposites are the same advantages provided by the nanofiber reinforced NovaPro Flow.

(Source: Nanova Biomaterials)
“My personal journey at LVI taught me the most cutting edge techniques in dentistry. It taught me how important it is to work on my business and most of all to love what I do and provide my patients with life changing dentistry.”

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

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A6

INDUSTRY NEWS

Single-bottle adhesive self-cures with no light activation

*Futurabond M+ needs only one coat and 35 seconds*

By VOCO Staff

VOCO recently introduced Futurabond M+, a universal single-bottle adhesive. Futurabond M+ versatility enables it to be used in self-, selective- or total-etch mode without any additional primers on virtually all substrates. Futurabond M+ achieves total-etch bond strength levels with all light-, self- and dual-cure resin-based composites, cements and core buildup materials. With a dual-cured activator, Futurabond M+ will self-cure without any light activation, which, according to the company, offers a big advantage for endodontic applications such as post cementation where it avoids the pooling effect, a problem with light-cured adhesives. Futurabond M+ also adheres well to metal, zirconia and ceramic, making extra primers unnecessary.

Futurabond M+ needs only one coat and takes 35 seconds from start to finish. Its low film thickness of 9 microns makes bonding margins invisible (i.e. no “halo” effect) and prevents pooling problems. Additionally the material does not need to be refrigerated. Further Futurabond M+ benefits include its indication as a desensitizer for use under amalgam restorations or on hypersensitive tooth necks, as a protective varnish for glass ionomers as well as an intraoral repair of ceramic restorations.

For more information on Futurabond M+ you can visit the VOCO website at www.voco.com.

Narrow-profile attachment system works with all implants

*Rhein’83 OT Equator has reduced vertical profile of 2.1 mm and diameter of 4.4 mm*

Rhein’83, a global producer of precision attachments on removable prosthesis, describes its OT Equator as the smallest dimensional attachment system on the market. It has a reduced vertical profile of 2.1 mm and diameter of 4.4 mm (metal housing included). It is compatible with any implant brand.

Superior stability

Because of its shape, Equator provides superior stability when compared with traditional attachments, according to the company. It corrects divergence of up to 25 degrees, the company reports. Functionality is guaranteed by coupling of attachment and cap.

Caps are available in four colors, based on levels of retention — from a minimum of 0.6 kg to a maximum of 2.7 kg.

Caps should always be used with metal housing.

Learn more

To learn more about OT Equator, you can contact the company by email at info@rhein83usa.it or by telephone at (877) 778-8383.

You can visit the company online at www.rhein83usa.com to learn more about all of its products and services, including the OT Equator.

(Source: Rhein’83)
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Easily retrievable
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Wireless and unconnected:

‘WireLess’ headlight is self-contained

Designs for Vision’s new LED DayLite® WireLess™ not only frees you from being tethered to a battery pack, but the simple, modular design also couples the “WireLess” light from a specific frame or single pair of loupes. Prior technology married a cordless light to one pair of loupes via a cumbersome integration of the batteries and electronics into the frame. The compact design of the DayLite WireLess is independent of any frame/loupes.

The patent-pending design of the LED DayLite WireLess is a new concept: a self-contained headlight that can integrate with various platforms, including your existing loupes, safety eyewear, lightweight headbands and future loupes or eyewear purchases. The LED DayLite WireLess is not limited to one pair of loupes or existing loupes, safety eyewear, lightweight headbands and future loupes or eyewear purchases. The LED DayLite WireLess can be transferred from one platform to another, expanding your “WireLess” illumination possibilities across your eyewear options.

The LED DayLite WireLess weighs only 1.4 ounces and, when attached to a pair of loupes, the combined weight is half the weight of integrated cordless lights/loupes. The LED DayLite WireLess produces more than 40,000 lux at high intensity and 27,000 lux at medium intensity. The spot size of the LED DayLite WireLess will illuminate the entire oral cavity. The function of the headlight is controlled via capacitive touch.

The LED DayLite WireLess is powered by a compact, rechargeable lithium-ion power pod. It comes complete with three power pods. The charging cradle enables you to independently recharge two power pods at the same time and clearly displays the progress of each charge cycle.

Micro Series: Smaller, lighter, stronger

Designs for Vision has been showing the Micro Series together for the first time this fall. The Micro 3.5EF Scopes use a revolutionary optical design that reduces the size of the prismatic telescope by 50 percent and reduces the weight by 40 percent, while providing an expanded-field full-oral-cavity view at 3.5x magnification.

The new Micro 2.5x Scopes are 23 percent smaller and 36 percent lighter than traditional 2.5x telescopes, and enlarge the entire oral cavity at true 2.5x magnification.

The Micro Series is fully customized and uses the proprietary lens coatings for the greatest light transmission. You can “See the Visible Difference®” yourself by visiting the Designs for Vision booths, No. 433, at the AAP meeting, and booth Nos. 402 and 462 at the GNYDM meeting. Or arrange a visit in your office by calling (800) 345-4009 or emailing info@dvimail.com.

(Source: Designs For Vision)

Revolutionizing local anesthetic delivery: ‘A shot that patients and practitioners love’

Anutra Local Anesthetic Delivery System provides simple platform for buffering

By Anutra Medical Staff

“I didn’t even know you gave me a shot,” Barb said as Dr. Kelly picked up his handpiece and went to work immediately. For decades, the idea of getting a dental injection has terrified patients. Quite frankly, the uncertainty, unpredictability and long onset time of local anesthetic equally terrifies the practitioner.

The Anutra Local Anesthetic Delivery System redefines local anesthetic delivery. It radically enhances patient experience and comfort while transforming a practitioner’s efficiency, profitability — as well as the profundity and predictability of local anesthetic.

Age-old science made simple

Buffering is an age-old science that has been used in the medical community for decades. Buffering is simply taking something acidic, mixing it with something more basic to neutralize the acid. So why does this matter in dentistry? Lidocaine with epinephrine has a low pH, meaning it is extremely acidic. In fact, its pH is close to that of citric acid, which is found in limes and lemons. Could you imagine injecting lemon juice into someone’s mouth? We simply would not do that.

Much of the burning and stinging sensation comes from the fact that local anesthetic is very acidic. The Anutra Local Anesthetic Delivery System makes buffering simple. By loading an Anutra Cassette at the beginning of the week, clinicians can simply buffer anesthetic for every patient by twisting the knob on the Anutra Dispenser. It could not be easier.

Topical effect, too

What adds to the amazing power of buffered anesthetic is a topical effect that is a result of a CO2 microbubble that is formed when local anesthetic is mixed with sodium bicarbonate. Many practitioners report dropping a small amount on the mucosa prior to injecting for a very powerful topical anesthetic.

Not only is patient comfort increased with buffered anesthetic, a practitioner’s efficiency is dramatically optimized. Since buffered anesthetic is raised to physiologic pH, the anesthetic crosses the nerve membrane more readily, meaning a patient can reach pulp anesthesia in as little as two minutes, even with blocks. Additionally, anywhere from 4,000–6,000 times the active molecules of anesthetic will cross the nerve membrane, making it more profound than normal lidocaine as well as increasing the predictability that a patient will get numb the first time, even on those hard-to-numb patients.

Disposable, multidose, one-handed aspiration syringe

Not only does the Anutra Local Anesthetic Delivery System provide a simple platform for buffer anesthesia in the practice, it also introduces the first-known, FDA approved, multidose, one-handed aspiration syringe that is fully disposable.

Not only does the Anutra Local Anesthetic Delivery System provide a simple platform for practitioners to buffer anesthesia in the practice, it also introduces the first-known, FDA approved, multidose, one-handed aspiration syringe that is fully disposable. So what does that mean? It means that you can hold up to 6 mL of anesthetic in one single syringe. There is no need to reload cartridges; one syringe can hold the equivalent of at least three traditional 1.8 mL dental cartridges. According to the company, with its affordable cost, revolutionary new syringe, simple dosing system and long shelf-life, the Anutra Local Anesthetic is a no-brainer for every dental practice.
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Dentatus ANEW is a different narrow-diameter implant for different challenges

Since inception in the 1990s, narrow-diameter implants have evolved from being used as transitional devices to a long-term solution for patients seeking less invasive and less time-consuming procedures. Dentatus ANEW is FDA-cleared for long-term use and backed by more than 10 years of clinical research.

Today, with proven reliable results, Dentatus ANEW implants are being used as an ideal option for single crowns with tight inter-proximal spaces. They can be placed in interdental spaces as narrow as 3.5 mm.

With changes in the health care environment calling for more affordable treatment options, particularly for the geriatric patient, now is an ideal time to incorporate narrow-body implants into your armamentarium.

Dentatus ANEW is the only narrow-body implant with a screw-retained prosthetic system, according to the company. It features various abutments for both immediate and long-term screw-retained single- or multi-unit prosthetics. The introduction of the Elypse abutment enables treatment for removable prosthesis with the DentureComfort technique.

Improves stability, stops rotation

Manufactured from a one-piece Grade-5 titanium alloy, Dentatus ANEW is available in 1.8, 2.2 and 2.4 mm narrow-body diameters. According to the company, the tapering implant design improves initial stability while the square platform prevents prosthetic rotation. The surface-treated thread promotes osseointegration, offering instant support.

For more information you can call (800) 323-3136, or visit www.DentatusUSA.com. You also can visit booth No. 314 at the AAP Annual Meeting or listen to Dr. Ziv Mazor’s co-presentation of the focused Continuing Education course, FCEI: "Narrow Diameter Implants," on Sunday, Nov. 15, from 10:15-11:45 a.m.

(Source: Dentatus)

Temporary luting material delivers natural appearance

VOCO’s Bifix Temp offers high esthetics with a simple application that provides users with visually pleasing results. The translucent and tooth-like universal shade blends with highly esthetic temporaries, does not shine through and promotes natural appearance of temporary restorations. Thanks to Bifix Temp’s low film thickness, temporaries can be cemented to fit without adjustment.

As a composite-based dual-cure material, Bifix Temp offers 90 seconds of working time and sets in four minutes. The light-cure mode offers the user control and easy removal of excess material via a “tack-cure” technique that activates an initial elastic gel phase. Any unwanted residues are easy to locate and remove as Bifix Temp’s universal shade stands out well against the gingiva.

Bifix Temp comes in an auto-mix syringe with very short tips, making application precise and economical. To learn more, you can visit www.voco.com.

(Source: VOCO America)

LVI Core I three-day course enables dentist and team to learn together

By Mark Duncan, DDS, FAGD, LVIF, DICOI, FICCMO, Clinical Director, LVI

As a patient, I expect the best care I can find. As a doctor, I want to deliver the best care possible. That takes us to the power of continuing education, and as doctors we are faced with many choices in continuing education.

As a way to introduce you to the Las Vegas Institute for Advanced Dental Studies, or LVI, I want to outline what LVI is about and what void it fills in your practice. The alumni who have completed programs at LVI were given an independent survey, and unlike the typical surveys, 99.7 percent said they love practicing dentistry, and of those surveyed, 92 percent said they enjoy their profession more since they started their training at LVI. That alone is reason enough to go to LVI and find out more.

‘Advanced Functional Dentistry: The Power of Physiologic-Based Occlusion’

While the programs at LVI cover the breadth of dentistry, the most powerful and life-changing program is generally reported as Core I, “Advanced Functional Dentistry: The Power of Physiologic-Based Occlusion.” This program is a three-day course that is designed for doctors and their teams to learn together about the power of getting their patients’ physiology on their side. In this program, doctors can learn how to start the process of taking control of their practice and start to enjoy the full benefits of owning their practice and providing high-quality dentistry.

Whether he or she works in a solo practice or in a group setting, every doctor can start the process of creating comprehensive care experiences for his or her patients.

We will discuss why some cases that doctors are asked by their patients to do are actually dangerous cases to restore cosmetically. We will discover the developmental science behind how attractive smiles evolve and what cases may need the help of auxiliary health care professionals to get the patient feeling better.

The impact of musculoskeletal signs and symptoms will be explored and how the supporting soft tissue is the most important diagnostic tool you have — not simply the gingiva, but the entire soft-tissue support of the structures not just in the mouth but also in the rest of the body.

Comprehensive care

A successful restorative practice doesn’t need to be built on insurance reimbursement schedules. An independent business should stand not on the whims and distractions of a fee schedule but rather on the ideal benefits of comprehensive care balanced by the patients’ needs and desires. Dentistry is a challenging and thankless business, but it doesn’t have to be. Through complete and comprehensive diagnostics, there is an amazing world of thank-you’s and hugs and tears that our patients bring to us, but only when we can change their lives. The Core I program at LVI is the first step on that journey.

That’s why when you call, we will answer the phone, ‘LVI, where lives are changing daily!’

Las Vegas Institute for Advanced Dental Studies offers Core I, a three-day course for doctors and their teams. Photo/Provided by Las Vegas Institute for Advanced Dental Studies
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AND Micro3.5x Scopes™
**Zoo primate takes dental care seriously**

**Female hamadryas baboon seen using bristle from old broom to clean her teeth**

Baboons at Paignton Zoo in Devon, United Kingdom, have learned to floss. A female hamadryas baboon was seen using a bristle from an old broom to clean her teeth.

Paignton Zoo volunteer Liz Chisholm, who took the photos, said: “As I passed Baboon Rock I noticed that the baboons had been given broom heads to play with.” Some young baboons were seen sweeping the food out or because she likes the sensation. A number of the Sulawesi crested macaques do it, too.

So, while zoo keepers clean their enclosures and provide free meals and the in-house vet team keeps an eye on their health, personal grooming is obviously important to these primates.

Director of Conservation and Education Dr. Amy Florman said, “Animals like dogs and even things we’re taught to think about, things, which is very clever but it’s much more interesting scientifically if animals spontaneously do something with a tool without being taught, which would be the case with the baboons.”

It’s not the first time that Paignton Zoo baboons have been seen using tools. In 2000 another female hamadryas baboon was observed using a splinter of wood to clean out her offspring’s eye. The incident was reported in Primate Eye issue 72, which was published in 2000 by the Primate Society of Great Britain.

Macaques in Thailand are known to use strands of human hair to floss. Perhaps soon Paignton Zoo’s health-conscious baboons will be using their own toothbrushes and rinsing with mouthwash. (Source: Paignton Zoo)
Barrier protection critical with any dental-care glove

While caring for their patients, dental and health care professionals are constantly exposed to bodily fluids that may carry viruses and other infectious agents. It is therefore critical that the gloves these professionals use provide the best possible barrier protection.

Many types of gloves are available today, but it is important to know that not all gloves have the same barrier capability, depending on the type of material used. For example, natural rubber latex gloves have long been acknowledged for their very effective barrier properties, while non-latex gloves, such as vinyl (polyvinyl chloride), have inferior barrier capability as shown by numerous studies.

Other synthetic gloves, such as nitrile and polysisoprene, perform much better than vinyl but are more costly, especially polysisoprene gloves. Using gloves with inferior barrier capability could expose both the patient and user to harmful infections.

Quality, safety top priorities

Malaysia is the world’s largest medical gloves exporter (latex and nitrile). Both quality and users’ safety are of top priority to the nation’s glove industry. To this end, a quality certification program (the Standard Malaysian Gloves, or the SMG) has currently been formulated for latex examination gloves.

All SMG-certified gloves must comply with stringent technical specifications to ensure the gloves are high in barrier effectiveness, low in protein and low in allergy risks, in addition to having excellent comfort, fit and durability — qualities that manufacturers of many synthetic gloves are trying to replicate.

Natural, sustainable resource

Latex gloves are green products, derived from a natural and sustainable resource, and are environmentally friendly. You can learn more online by visiting www.smg-gloves.com or www.latexglove.info.

The use of low-protein, powder-free nitrile and polyisoprene gloves has been demonstrated by many independent hospital studies to markedly reduce the incidence of latex sensitization and allergic reactions in workplaces. More importantly, latex allergic individuals donning non-latex gloves can now work alongside their coworkers wearing the improved low-protein gloves without any heightened allergy concern.

However, for latex-allergic individuals, it is still important they use appropriate non-latex gloves, such as quality nitrile and polysisoprene gloves, that provide them with effective barrier protection.

Extensive array of brands, prices

Selecting the right gloves should be an educated consideration to enhance safety of both patients and users. For decades, gloves made in Malaysia have been synonymous with quality and excellence, and they are well established in an extensive array of brands, features and prices. They can be sourced either factory direct (www.mrepc.com/trade and click “medical devices”) or from established dental product distributors in the United States.

(Source: Malaysian Rubber Export Promotion Council)
Work with confidence

Malaysia:
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Protection and Performance You Can Feel

Malaysia is the largest source for U.S. imports of natural and synthetic rubber gloves as reported in tariff and trade data by the U.S. Department of Commerce and the U.S. International Trade Commission.

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Case Study
Photos: Dr. Nick Shumaker

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- Large Buccal Defect Grafted
- New Host Bone Formation
- 20 Week X-Ray Implant Placed

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AAID conference packs the Palace in Las Vegas

By Sierra Rendon, Managing Editor

Thousands of clinicians and supporting staff descended on the grounds of Caesars Palace in Las Vegas to attend the American Academy of Implant Dentistry’s 64th Annual Educational Conference from Oct. 26-29.

This year’s AAID’s meeting, “Where Classic Principles Support Cutting-Edge Implant Dentistry,” aimed to provide “practical education for the practicing implant dentist.” Topics included the science of implant dentistry; pharmacology of implant dentistry; future of dental implants; soft-tissue management; formulas for success; management of complications; and much more.

Many of the educational sessions drew crowds, such as Dr. Carl Misch’s keynote address, “Extract and Immediate Placement,” which focused on immediate temporization, risk management for immediate implants in extraction sites and guidelines for extraction and immediate implant placement.

Another session that drew great interest was Dr. Jaime Lozada’s seminar on “3-D Printing Technology in Implant Dentistry,” which featured actual use of a 3-D printer on site during the session.

The exhibit hall was brimming with new products and technology created to make implant dentistry simpler, faster and more successful.

One such new technology was X-Guide Dynamic 3-D Navigation System by X-Nav Technologies. The AAID was the first show that the X-Guide appeared at since receiving its FDA clearance in mid-October.

The X-Guide system is designed to elevate the surgeon’s control and precision during the entire implant process, including planning and placement, said Michelle Jackson of X-Nav.

Interactive, turn-by-turn guidance during live surgery gives clinicians the ability to visualize precise movements of the handpiece during osteotomy and implant delivery for more exact implant placement. “It’s like GPS for the drill,” according to Jackson.

Another innovative new product at the AAID was the Restful Jaw®, an easy-to-use, clinically proven device that supports the jaw during treatment. Designed by dental researcher and educator Dr. Eric L Schiffman, the device has been tested in clinical trials for more than a decade.

“One of our clinicians said it best: You may not need it for every client, but when you need to use it, it can be a real lifesaver,” Schiffman said.

AAP to host annual meeting in Orlando

By Sierra Rendon, Managing Editor

The American Academy of Periodontology will host its 101st annual meeting in Orlando from Nov. 14-17 at the Gaylord Palms Resort & Convention Center.

With thousands of periodontists, hygienists, dental students and researchers in one place, this year’s annual meeting is about more than lectures and workshops; it provides an opportunity to learn, share, and network with like-minded dental professionals from around the world, according to AAP President Joan Otomo-Corgel.

Show attendees can count on a wealth of continuing education opportunities (more than 25 C.E. hours) and informative fare to suit each individual’s tastes. Whether you’re interested in treatment techniques, emerging technologies, scientific advancements, practice development or clinical applications, there is a place for you.

AAP event planners say the Gaylord Palms is rolling out its red carpet for those attending this flagship academy event. Day-one festivities culminate in a come-as-you-are welcome reception to be held after sunset on the Coquina Lawn. Bring your most comfortable sandals and your favorite tropical attire.

Otomo-Corgel also says the AAP is excited to present special opportunities designed for those at all levels of the dental profession. Once again, the AAP will host a symposium for dental hygienists in oral health care, equipping them with the latest information on such topics as periodontal disease and regenerative periodontics.

The AAP will also host programs geared toward emerging periodontal professionals, including those who are just beginning to practice and those who have recently completed or will soon complete residencies. One such program is a dedicated symposium, presented in conjunction with the AAP Foundation and the Osteology Foundation.

For more on the annual meeting, visit www.perio.org.
Scenes from the AAID

Seminar attendees gather to check out the 3-D printer before Dr. Jaime Lozada’s session on ‘3-D Printing Technology in Implant Dentistry’ at the AAID Annual Educational Conference. Photos/Sierra Rendon, Managing Editor

Dr. Eric Schiffman models on Dr. Johnson how to use the Restful Jaw, an easy-to-use, clinically proven device that supports the jaw during treatment. The product, which Schiffman designed and created, was exhibited during the AAID conference.

Kevin Kim, president of DoWell Dental Products, helps an attendee at the company’s booth at the AAID.

The Glidewell team — Jimmy, Monica, Suzanne and Dr. Paresh Patel — helped attendees learn about Hahn implants during the AAID conference.
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The Henry Schein Surgical Solutions booth.

Emiko Ota and Esther Lee show attendees the new Osada XL-S40 at the Osada booth.

Lending Club’s Jennifer Molette, left, and Kim Hawkins at the booth.

Matt Miller helps an attendee at the Meisinger booth.

Chris Totty and others help a crowd of attendees at the Salvin booth.

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¹Clinicians Report, TRAC Research, July 2014

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Mark the calendar: AO 2016 Annual Meeting now includes hands-on workshop sessions

To accommodate the growing demand for dental implant training and education, the Academy of Osseointegration (AO) has expanded its 31st annual meeting to include hands-on workshop sessions.

These sessions will be held the afternoon of Feb. 17, the day before the opening symposium and welcome reception. For the next three days (Feb. 18-20), specialists and general dentists will continue to learn together about the latest in science and technology from the world’s leading clinicians and researchers.

The meeting, themed “Globalization of Implant Dentistry: A World Collaboration,” will be held at the San Diego Convention Center in San Diego.

Follow AO on Facebook and Twitter using #AO2016 to stay up to date. “Clinicians, residents and students who carve time out of their busy schedules to attend our annual meeting do so because they share our conviction that knowledge and training are essential for the successful use of dental implants,” said AO President Dr. Russell Nishimura. “We owe it to them to maximize their time by ensuring this experience gives them world-class education in an outstanding learning environment, and that it translates into optimal patient care.”

The annual meeting will include more than 50 clinical presentations, an expansive exhibit hall, hundreds of ePosters, as well as oral scientific abstracts and oral clinical research sessions; corporate forums; lunch and learn sessions; a young clinicians lecture series; and a TEAM Program and laboratory technician program. In addition to the opening and closing symposiums, there will be a “Focus on China Symposium,” where speakers from different regions of China will present on their clinical experiences and research in implant dentistry.

“We have put together an unparalleled line up of clinicians, teachers and researchers from around the globe to present on the topics most important to today’s implant dentist,” said Dr. Peter Moy, 2016 annual meeting program chairperson. “The whole point of this meeting is to ensure our members and guests take valuable information back to their practices to provide optimum care for our implant patients, and that’s exactly what we plan to do.”

Throughout the conference there will be numerous opportunities to network and socialize, including the president’s reception, a time-honored event complimentary to all attendees. This year’s reception will be held at the San Diego Air and Space Museum.

“San Diego is easy to fly into from anywhere in the world,” Nishimura said. “With its warm weather and great amenities, such as beaches, golf, shopping and the zoo, it’s an awesome place to bring your family.”

For more information on the annual meeting, visit http://meetings.osseo.org/

About the Academy of Osseointegration
With 6,000 members in 70 countries around the world, the AO is recognized as a premier international association for professionals interested in implant dentistry. AO serves as a nexus where specialists and generalists can come together to evaluate emerging research, technology and techniques, share best-practice information, and coordinate optimal patient care using timely, evidence-based science and methods. Follow AO on Facebook and Twitter.
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Immediate, esthetic tooth replacement with the Hahn Tapered Implant and BruxZir Anterior Solid Zirconia

With more patients seeking dental implant treatment, it’s no surprise that growing numbers of clinicians are providing this service. The increased demand for implant therapy can be attributed in part to the improved predictability brought about by innovations in implant design.

Additionally, due to advancements in all-ceramic restorative materials, providing esthetic results is easier than ever before. By utilizing the most advanced implants and restorative materials, even experienced implantologists have the potential to benefit from an improved clinical workflow and more esthetic results.

The case report that follows demonstrates immediate tooth extraction and placement of a Hahn Tapered Implant (Glidewell Direct; Irvine, Calif.) in the area of a lateral incisor. A temporary bridge, custom implant abutment and a highly esthetic final crown are utilized to facilitate a natural-looking final restoration.

Case report

A 40-year-old male presented with no medical complications and desired a nice smile for his business interactions. His maxillary left lateral incisor had fractured, with the patient’s excessive parafunction likely a contributing factor. Endodontic evaluation had determined that the lateral incisor was un-treatable. The patient accepted a treatment plan in which the lateral incisor would be extracted and an implant immediately placed. Designed to achieve the maximum primary stability needed for immediate extraction and implantation cases, a Hahn Tapered Implant was selected for the procedure.

To begin treatment, the non-restorable lateral incisor was extracted atraumatically. Removing the tooth in this manner maintained the facial plate of bone as well as the interseptal bone that helps support the interdental papillae.

A pilot drill was utilized to create the initial osteotomy approximately 3 mm apical to the adjacent cemento-enamel junction, and a 3.5-mm-diameter Replace Select™ drill (Nobel Biocare; Yorba Linda, Calif.) was used to complete preparation of the implant site. Note that the Hahn Tapered Implant is compatible with widely used surgical instrumentation.

As the implant was threaded into place, its prominent buttress threads engaged the palatal wall firmly. This simplified the effort of preserving the facial plate and positioning the implant in a manner that would foster an aesthetic outcome. The tapered body of the implant eases placement within a maximum amount of bone, and its widened apex helped establish excellent stability.

Radiography confirmed the implant was placed in an optimal position. A transitional bridge was fabricated to minimize speech problems, help support the soft tissue and maintain a natural emergence profile during the healing period. After four months of healing, the temporary bridge was removed, and an open-tray final impression was taken.

An Inclusive Zirconia Custom Abutment with titanium base was produced by the lab and maintained a natural emergence profile upon delivery. BruxZir Anterior, a monolithic zirconia material specially formulated for the smile zone, was chosen for the final restoration because of its strength and lifelike esthetics.

The crown, which was digitally designed and milled using CAD/CAM technology, exhibited a precise fit. Final radiography illustrated superb bone preservation at the implant site (Fig. 1). Optimal soft-tissue contours were particularly evident around the beveled edge of the Hahn Tapered Implant. The patient expressed that he was very pleased with the final restoration (Fig. 2).

Conclusion

The high primary stability, optimal positioning and simplified surgical protocol facilitated by the Hahn Tapered Implant make it ideal for a wide range of indications, including immediate extraction cases and restorations in the smile zone.

When combined with BruxZir Anterior and zirconia hybrid custom abutments, a predictable restoration can be delivered that mimics the esthetics of the tooth being replaced.

By Timothy F. Kosinski, DDS, MAGD

Photos/Provided by Dr. Timothy F. Kosinski

‘Removing the tooth in this manner maintained the facial plate of bone as well as the interseptal bone that helps support the interdental papillae.’
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Current developments focus on minimally invasive procedures with less postoperative pain for the patient and a faster healing time. Piezo technology has increasingly been finding its way into oral and maxillofacial surgery and implantology for more than a decade. Maximum precision in surgical use and gentler treatment for the patient are just some of the advantages of this cutting-edge drive technology, according to the company. With the new Piezomed, W&H can use state-of-the-art ultrasound technology for even the most demanding tasks in bone surgery, providing surgeons with optimal support in their daily work.

“Our product development has a clear aim: to consistently fulfill the many different needs of the patients and also to satisfy the users’ requirements. The new Piezomed minimizes the invasiveness of surgical treatments. Safe working thanks to automatic instrument detection and unique instrument design takes on a completely new meaning for the user,” said Andreas Lette, strategic W&H product manager and head of product innovation.

New dimension in bone surgery

The new surgical instrument from W&H employs state-of-the-art ultrasound technology. High-frequency microvibrations enable high-precision incisions while the so-called cavitation effect ensures an almost blood-free surgical site and an excellent view of the treatment area, the company asserts.

In addition to these benefits, W&H offers maximum safety during operation with its patented automatic instrument tip detection. Piezomed detects the instrument during tip insertion and sets the correct power class automatically. This significantly lowers the risk of harming a patient and overloading the instruments, according to the company.

Equipped for any task

W&H offers a selected range of 24 intelligently created working instruments to provide optimum cover for the wide variety of tasks dealt with by surgeons.

“For example, the bone saws have a specially developed tooth design that enables bone block harvesting with low bone loss. We also offer a special saw that boasts extremely high-cutting performance,” Lette said. “Many of the surgical instruments developed by W&H are an absolute world first in the global dental sector. Our developments are patented to protect our unique expertise.”

The instruments have another advantage with their efficient cooling concept. The spray exits near the instrument’s work area, thus protecting the instrument from thermo-mechanical material stress. The user benefits from even safer and cooler processing of the operating field, according to W&H.

Piezomed supports the surgeon’s individual way of working with three different operating modes: “Power,” “Basic” and “Smooth.”

The operating modes store a variety of performance characteristics. Equipped with a multi-functional foot control, the surgical device offers freedom for the users’ hands.

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X-Nav Technologies launches X-Guide Dynamic 3D Navigation System

System now available in the United States, Canada and Europe

By X-Nav Technologies Staff

X-Nav Technologies, the developer of advanced technology solutions for dental surgery, has announced it has received 510(k) clearance from the U.S. Food and Drug Administration (FDA) for the X-Guide™ Dynamic 3D Navigation system. The X-Guide system is designed to elevate the surgeon’s control and precision over the entire implant process, including planning and placement.

Interactive, turn-by-turn guidance during live surgery gives the ability to visualize precise movements of the hand-piece during osteotomy and implant delivery for more exact implant placement, according to the company, it’s like GPS for the drill. This results in the ability to consistently deliver a more desirable functional and aesthetic outcome in dental implant surgeries.

X-Nav Technologies confirms that it has approval to market and sell the X-Guide Dynamic 3D Navigation system to dental clinicians in the United States, Canada and the European community.

Just as cone-beam 3-D imaging has transformed the dentistry implant process for surgeons and patients, this next advancement in technology will bring more precision and control in transferring 3-D treatment plans to the patient, with ease,” said Ed Marandola, X-Nav Technologies president and CEO.

The X-Guide system makes it easy to be exact, the company says, by providing robust and easy-to-use treatment software plus new, patent-pending X-Point™ navigation technology — the first, single-view guidance of implant position, angle and depth.

The X-Guide system is designed to be compatible with most cone-beam 3-D systems. X-Nav Technologies asserts, adding that surgeons do not have to stop at precise planning anymore — now they can place in remarkable detail as well.

Developed in close collaboration with leading oral and maxillofacial surgeons, the X-Guide system promises to deliver what today’s implant clinicians want. Dr. Robert W. Emery, diplomate of the American Board of Oral and Maxillofacial Surgeons, states: “X-Guide fills the final gap of digital dentistry. Dynamic 3-D navigation allows the dentist to use all the 3-D digital information at their fingertips in real-time to immediately use their cone-beam 3-D scan to plan and place implants. The surgeon can fully guide his or her cases even when clinical alterations are necessary because the system embraces flexibility.”

The X-Nav Technologies leadership includes part of the original team that brought industry-leading i-CAT® cone-beam 3-D imaging to the dental industry.

The president and co-founder of X-Nav, Marandola, is the former president and co-founder of CAMLOG (Imaging Sciences International) and X-Nav co-founder Chris Scharff led the i-CAT commercial team as vice president.

For more information on the X-Guide system, visit www.X-NavTech.com.

True flexibility for all types of treatments

By Henry Schein Dental Surgical Solutions Staff

Our latest-generation implant system is intelligent, lean and simple. iSy® has a compact system design, offering you a unique workflow advantage. You will benefit from unsurpassed cost efficiency in each of your implant cases, backed by proven CAMLOG quality.

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You can choose to restore your case with the included implant base in either a digital or conventional treatment workflow. If you prefer using conventional methods, you can complete your case with prefabricated components or CAD/CAM options. iSy includes treatment flexibility in every package for your benefit and your patients.

The core workflows for implant practices are: digital, conventional and combined.

1. Digital: A digital treatment workflow can be done with or without the implant base. Transgingival healing provides easy access to the final abutment and allows for optimal hard- and soft-tissue healing. When ready for impression, the multi-functional cap offers you the ability to use an intra-oral impression scanner. The customized final restoration can be affixed to the implant base and delivered with minimal effort.

2. Conventional: A conventional treatment workflow can be done with or without the implant base. Submerged healing allows for undisturbed integration throughout the healing process. A gingiva former will sculpt the soft tissues. When ready for impressions, open or closed tray impression copings are available. The final restoration is completed using pre-made abutments with a traditional PFM crown.

3. Combined: The flexibility of iSy is showcased with this final example. Conventional and digital treatment workflows can be combined to provide a customized final result. The pre-mounted implant base with a multi-functional cap is used to take a traditional impression.

The dental lab will scan the iSy scan post within an implant analog or scan the implant base using the second multifunctional cap. The final result will be a customized restoration made iSy and designed to create satisfied patients.

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iSy is a high-quality implant system made by CAMLOG. The system was developed in Switzerland and is manufactured in Germany. The cornerstone of CAMLOG is its attention to detail, sustainability and the quality development of its products.

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