

GLIDEWELL SYMPOSIUM EXPANDS

Washington, D.C.,-area event to include more than a dozen prominent educators and two days of intensive instruction.

► page A3

**SMALLER, LIGHTER, BRIGHTER**

Micro 4.5EF Scopes reduce size, weight of telescopes. LED DayLite WireLess headlights work with any frame or loupes.

► page A4

**IMPLANT TRIBUNE****AO ON THE EAST COAST**

Preview the Academy of Osseointegration's Mid-Atlantic Regional Meeting in scenic National Harbor, Md.

► page B1



CDA meeting topics include forensic dentistry, oral pathology, pharmacology

More than 150 lectures and workshops for dentists and their teams are lined up for CDA Presents The Art and Science of Dentistry, to be held Sept. 6-8 in San Francisco. Nearly all courses are eligible for C.E. credit and span topics in clinical care, practice management and beyond. Highlighted here are just a few expert speakers and their courses.

"Facial Reconstruction to Facial Transplantation: Success Through a Team Approach" by Lawrence E. Brecht, DDS, is the San Francisco convention's featured lecture. Brecht is the director of maxillofacial prosthetics at New York University College of Dentistry and the director of dental services at the Institute of Reconstructive Plastic Surgery of New York University Langone Medical Center.

Through the development of a surgical-prosthetic-industrial team approach and advances in digital technologies, many previously unimaginable facial reconstructions are now possible and are achieved through fewer and more efficient surgical procedures that also facilitate improved prosthetic restorations and functional outcomes.

Brecht's presentation will discuss the

advantages of using this team approach in reconstruction, from the simplest examples to the most complex, such as facial transplantation. (Read more about Brecht's lecture in article on page A2.)

Forensic dentistry and practitioners' duties as mandated reporters

Anthony R. Cardoza, DDS, chief forensic dentist for San Diego and Imperial counties, is teaching several courses in forensic dentistry and laser-assisted dentistry.

In one course, he'll cover dentistry's role in mass disasters and in recognizing child abuse and domestic violence. Specifically, he'll explain the role an individual's dental record may play in the identification of a mass disaster victim, how to recognize — especially in the head and neck area — the signs and symptoms of physical abuse in a dental patient, and the dental care provider's duties as a mandated reporter.

Medical emergency management

Rick Ritt, EMT-P, MA, a paramedic for more than 35 years who has trained thousands of dentists and their staffs, will lead two emergency management



Attendees at the 2017 CDA Presents head to and from courses and exhibits at the Moscone Center, site of the California Dental Association's northern version of its two annual meetings. The event features a broad selection of courses, lectures and workshops — and more than 400 companies displaying dentistry's latest products and services. Photo/DTA

workshops sponsored by The Dentists Insurance Company. One course designed specifically for the general dentist will incorporate hands-on clinical simulations using a high-fidelity mannequin called SimMan to help dentists make critical decisions and determine the most effective therapies for patients who experience medical emergencies and complications in the dental office. Dentists will learn the common causes and complications of such emergencies and how to identify the treatment algorithms associated with them.

The entire dental team can benefit from Ritt's second workshop, also sponsored by TDIC. Through interactive hands-on simulations using the SimMan, teams will learn the proper assessment and management of medical emergencies and complications that can occur in the dental office.

The course will emphasize the importance of dental organization and team dynamics, and the simulations will call on participants to work as a team to make critical decisions and deliver appropriate therapies to patients. Attendees will also learn what emergency equipment and instrumentation are essential for the dental office.

Oral cancer awareness, oral rehabilitations

Samson Ng, BSc(Pharm), MSc, DMD, an oral medicine specialist and oral and maxillofacial pathologist, will give two presentations on oral pathology. One seminar will discuss the aspects of oral cancer that are important to an oral health care provider and will introduce technologies such as visualization devices and quantitative cytology.

Attendees will leave the course understanding the clinical science, presentation and epidemiology of oral cancer and learn screening and diagnostic work-up for oral precancerous lesions.

Two lectures by George F. Priest, DMD, a former professor in graduate prosthodontics at Emory University, will discuss oral rehabilitations — one exploring the use of crowns and veneers and the other the use of implants.

Specifically, "Smile Line Rehabilitation with Implants" will teach attendees impression and intraoral scanning techniques as well as how to collaborate as a team to simplify complex interdisciplinary treatment plans for optimal implant esthetics.

► See CDA, page A2

From facial reconstruction to transplantation: Prosthodontist to discuss importance of teamwork

When people working at the top of their professions make a concerted effort to know what their colleagues need, the whole represents the greater outcomes of the parts and exceptional things can be created. In other words, teamwork can accomplish so much more, especially in the field of prosthodontics and dentistry in general.

That's the idea Lawrence E. Brecht, DDS, hopes to convey in his lecture "Facial Reconstruction to Facial Transplantation: Success Through a Team Approach" at CDA Presents The Art and Science of Dentistry in San Francisco in September. Brecht is the director of maxillofacial prosthetics at New York University College of Dentistry and has a joint appointment in the Hansjörg Wyss Department of Plastic Surgery of New York University Langone Medical Center, where he also serves on the cleft palate, craniofacial, ear anomalies and facial transplant teams.

Brecht's presentation will review and stress the importance of the surgical-prosthetic-industrial team approach in reconstruction, from the simplest examples to the most complex, including facial transplantation. In his lecture, he will also discuss how the culmination of the team concept can be seen in the advances in composite tissue allograft surgery (facial transplantation) for the severest of facial deformities.

"We'll begin with how a team approach can benefit children with a cleft palate and the simplest of 'reconstruction' of a smile for a baby and move up through jaw reconstruction for cancer and trauma patients — utilizing the 'Jaw in a Day' procedure — and move outside the oral structures, to the orbit, nose and ear, and the technology that is used to create those prostheses," he said. The lecture will end with a discussion of what Brecht calls the "worst-case scenario" — when

facial transplantation becomes necessary.

Brecht's interest in prosthodontics and its subspecialty, maxillofacial prosthodontics, began when he was a student at New York University, where he earned his DDS. "You're dealing with reconstituting portions of the face beyond the oral structures, and it seemed to me that it was not a difficult thing to reconstruct a tooth as a tooth," he said. "I enjoy the challenge and the fact that you have to work with your colleagues to get the best possible result for a patient."

After completing a residency at Boston's Brigham and Women's Hospital and a fellowship at the Harvard School of Dental Medicine, Brecht went on to earn certificates in both prosthodontics and maxillofacial prosthetics from the Department of Veterans Affairs Medical Center in New York, N.Y. He maintains a practice in New York City limited to prosthodontics and maxillofacial prosthetics.

Many previously unimaginable reconstructions are now possible and achieved following fewer and more efficient surgical procedures that also facilitate improved prosthetic restorations and functional outcomes. While facial transplantation may be an option in some cases, it should not be the "first thing you go to," according to Brecht. He said many problems are associated with facial transplants, such as the need for lifelong anti-rejection medications that increase the potential for various cancers and the procedure's extreme cost. Often, reconstructions are successful and make facial transplants unnecessary. Case in point: A successful reconstruction of one of his patients who was originally a facial-transplant candidate.

"There's a boy we're taking care of who had a gunshot wound and was considered to have a face transplant but was able to

be reconstructed" Brecht said. "Using leg bones, we made dental implants and were able to make dental prostheses to restore him to a fairly whole status."

When facial transplants do become necessary, Brecht and a team of professionals plan out what structures to remove from the donor to be accepted in the recipient. But the team also strives to maintain a level of dignity for the donor throughout the procedure, including making molds of the donor's face, Brecht said. The molds are used to create a lifelike silicone replica of the face to be draped over the donor's remains. "That keeps a sense of there being a humanity of the donor," he said.

Brecht credits a team approach and advances in digital technologies for the success of reconstructions and facial transplants. He enjoys the intellectual stimulation of being part of a team, which in his field may include computer engineers, microsurgeons and dental laboratory specialists. He says one person does not have all the answers to provide the care that patients need. But with the team approach, everybody pulls together, teaches each other and becomes amateur experts in their teammates' specialties.

"With the onset of some really new and creative technologies, we're able to do things that we could not have done five years ago and it's constantly evolving," Brecht said. "Embracing technology and being part of a team that's greater than just myself have led to great personal growth and satisfaction. And that gives me a different perspective on what I do."

"Facial Reconstruction to Facial Transplantation: Success Through a Team Approach" takes place from 11:30 a.m. to 1 p.m., Thursday, Sept. 6, and is open to the entire dental team.

(Source: California Dental Association)

◀ CDA, page A1

Pharmacology

Harold L. Crossley, DDS, PhD, professor emeritus at the University of Maryland Dental School in Baltimore, will present four courses that explore the intersection of pharmacology and dentistry. One course will provide the "nuts and bolts" of pharmacology that are useful in the dental office. Recognizing the legalization of marijuana in a growing number of U.S. states, a second course will discuss some common concerns about the use and abuse of the drug. A third course teaches the dental team how to recognize the signs and symptoms of commonly abused prescription and illicit drugs in patients and adolescents, and, finally, "Avoid Liability: Know Your Patients' Medication History and Its Impact on Dental Treatment" will look at the indications, contraindications and side effects of the most common physician-prescribed medications.

Restorative dentistry

Thomas R. McDonald, DMD, Augusta University College of Dental Medicine faculty member, and Edward A. McLaren, DDS,

MDC, professor at the University of Alabama at Birmingham School of Dentistry, will lead lectures and workshops on restorative dentistry. In McDonald's hands-on workshop "Provisional Restorations for Today's Restorative Practice," participants will fabricate anterior and posterior provisional restorations for single and multiple units while learning about esthetic contouring and how to troubleshoot and repair. McLaren's workshop will demonstrate the step-by-step processes of two types of etched ceramic restorations, after which attendees will complete their own preparations.

All CDA Presents lectures, including those listed here, are non-ticketed courses available on a first-come, first-served basis. While preregistration is not required, early arrival is recommended.

CDA Presents workshops are ticketed courses. Tickets may be purchased during preregistration and on-site provided space is available. For more about the courses summarized here and other scheduled courses by these speakers, see the online program at www.cdapresents.com/SF2018.

(Source: California Dental Association)

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Glidewell Dental to present two-day C.E. symposium near Washington, D.C.

Focusing on tools and techniques for clinical and business success, the second Glidewell Dental Symposium will be held Oct. 19–20 at the Gaylord National Resort & Convention Center in National Harbor, Md., near Washington, D.C. The symposium will provide continuing education and bring together notable experts from many different backgrounds and areas of dental practice.

On Friday, Oct. 19, the event will feature a full day of fast-paced main podium presentations, including a special keynote address by Dr. Jack Hahn, a legendary pioneer in dental implantology. Presentations will cover esthetic dentistry, digital dentistry, dental implants, tissue regeneration, sleep-related dentistry, practice management and more.

On Saturday, Oct. 20, in-depth, hands-on workshops will be led by some of the most distinguished educators in clinical dentistry, including faculty from key organizations such as the Misch International Implant Institute, the International Congress of Oral Implantologists and the American Academy of Implant Dentistry. The workshops will provide practical information on the latest protocols, procedures and innovations in the field.

'Bigger and better than last year'

"Following the success of last year's sold-out symposium, we received an abundance of feedback from attendees who expressed their desire for refining their clinical skills and adopting the latest technology to grow their practice," said Dr. Neil Park, scientific chair of the Glidewell Symposium and vice president of clinical affairs at Glidewell Dental. "They inspired us to expand the event to two days, to cover even more clinical and business topics, with nearly a dozen hands-on Saturday workshops to choose from. And we've moved to a more spacious venue to accommodate a vast array of interactive exhibits and technology demonstrations — to create an even bigger and better experience than last year."

Dentistry is experiencing a rapid and dramatic transformation, and in this period of dental technology innovation, courses will explore more effective and efficient solutions for treating patients. The symposium has been crafted to share as much clinical and business information as possible, so that clinicians can immediately implement focused strategies into their practice when they return to the office on Monday.

Additionally, during both days of the event, the exhibition floor will be packed with displays of 3-D printing, in-

traoral scanning, in-office milling, the CAD/CAM workflow, dental implants, and regenerative and restorative materials, as well as live product demonstrations. Opportunities will be presented for attendees to discover leading-edge technology, interact with experts in dentistry and network with colleagues.

"Over the years, Glidewell Dental has helped countless dentists advance their careers in our California-based training center, and it is with great pleasure that

we bring our world-class educational efforts to this second annual symposium," Park said. "Since our inception in 1970, our vision has been to make innovative, affordable treatment options a reality for patients seeking better oral health. The symposium brings together like-minded clinicians to explore innovative methods of treatment, to help rebuild smiles and enhance the lives of patients in need."

The Glidewell Symposium is designed for dentists, hygienists and chairside and front-office auxiliaries.

Up to 12 hours of C.E. credits

Attendees enrolled for both days can earn up to 12 hours of continuing education credits.

Tuition for day one is \$195, and for day two it is \$150.

On Friday, tuition includes a complimentary breakfast, lunch and cocktail reception with hosted bar. On Saturday, tuition includes breakfast.

For the complete agenda and to register, visit www.glidewellsymposium.com or call (866) 791-9539.

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OCTOBER 19–20

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Ultra-bright light is ultralight in weight

High-definition, uniform light at maximum intensity

By Designs for Vision Staff

Designs for Vision is introducing an advanced photonic design that provides uniform light distribution with maximum intensity. The patent-pending headlamps optically focus the light from the LED to provide 45 percent more light with uniform distribution.

The new LED DayLite® Micro HDi™ uses the new high-definition imaging in an ultra-lightweight headlamp in combination with the new Micro power pack. According to the company, the Micro is the market's lightest and smallest power pack. The complete unit includes two power packs, and each power pack can run up to 10 hours.

Designs for Vision also has added high-definition imaging to the LED Day-

Lite WireLess Mini HDi, providing a lightweight cordless solution with light intensity comparable to many corded headlamps. You can choose high-definition imaging with either a wired or wireless design to meet your preference, and either HDi headlamp will illuminate the entire oral cavity.

Designs for Vision's WireLess headlamps free you from being tethered to a battery pack. The simple modular designs uncouple the headlamps 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 LED DayLite WireLess headlamps are independent of any frame/loupes.

Designs for Vision is also featuring the "REALITY five-star-rated" Micro 3.5EF Scopes, which use an innovative 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.

Building on an established award-winning design, the newest addition to the Micro Series line is the Micro 4.5EF Scopes, which reduce both the size and weight of the telescopes by 44 percent.

Designs for Vision has expanded into a new 67,500-square-foot location at 4000 Veterans Memorial Highway in Bohemia, N.Y. To see photos of the facil-

ity you can visit www.DesignsForVision.com/move.htm.

You can see the Visible Difference® yourself by visiting the Designs for Vision's booth (No. 928) at the California Dental Association Fall meeting in San Francisco, CDA Presents The Art and Science of Dentistry.

You also can arrange a visit in your office by contacting the company at (800) 345-4009 or via info@dvimail.com.



High-definition headlamps optically focus the light from the LED to provide 45 percent more light with uniform distribution. Photo/Provided by Designs for Vision

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PLANMECA

Relationship goals: Partner with a GentleWave provider

By Sonendo Staff

As a professional, staying relevant in your field is dependent upon remaining current on industry developments and innovations. Patients want to know that they're receiving care from someone well-informed — someone who offers state-of-the-art services.

You should be giving the same considerations when choosing an endodontist to refer your patients to.

Creating a referral relationship with a GentleWave® provider can streamline your referral process and build confidence in your care. Give your patients access to Multi-sonic Ultracleaning® technology, and improve outcomes of even the most challenging cases.

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According to Sonendo, an advanced combination of fluid dynamics and broad-spectrum acoustic technology enables the GentleWave procedure to reach into the deepest, most complex portions of the root canal system to remove tissue, debris and bacteria. To refer an endodontic patient to the GentleWave provider closest to your practice, visit www.gentlewave.com/provider or call (844) 766-3636. Graphic/Provided by Sonendo

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Dentsply Sirona Academy opens in Charlotte, N.C.

Dentsply Sirona Inc., The Dental Solutions Company™, celebrated the grand opening of its new state-of-the-art training facility, the Dentsply Sirona Academy, Charlotte (DSAC), with a ribbon cutting ceremony on May 24.

Set to loud applause from enthusiastic attendees, Dentsply Sirona CEO Don Casey cut the ceremonial ribbon and welcomed guests to tour the ultra-modern space located at 13320 Ballantyne Corporate Place in Charlotte, N.C.

"It's a very proud moment for the Dentsply Sirona team, and I am honored to be a part of it," Casey said. "The opening of this facility represents our commitment to providing the highest quality training and education to dental professionals, including dentists, hygienists, assistants, lab technicians and dental office staff."

The DSAC is a multipurpose training facility, showcasing the most advanced and proven dental product solutions in a clinical setting. A comprehensive variety of clinical and technical curriculums are offered, including hands-on teaching, live lectures and on-demand webinars. The facility comprises 28,525 sq. ft. space and includes classrooms, a 288-seat auditorium, seven fully-outfitted operatories and two simulation labs. The DSAC may also be booked for private trainings, conferences, workshops and special events.



As staff and guests look on, Dentsply Sirona CEO Don Casey (center) prepares to cut a ceremonial ribbon to open the Dentsply Sirona Academy, Charlotte, training facility for dental professionals. Photo/Jordan McCumbee, Dental Tribune America staff

"In our relentless pursuit of excellence, Dentsply Sirona continues to exert itself as a technology and education leader in the dental community," Casey said. "We will hold steady in our ambition to help dental professionals through innovative products and solutions as well as continued training and education to ensure successful outcomes for themselves, their practices and their patients."

For more information about the Dentsply Sirona Academy, Charlotte, or to book a training course, you can visit www.dentsplysirona.com or call (844) 546-3722.

(Source: Dentsply Sirona)

Technology changing patient education

Growing comfort with screen-based, self-directed learning

Technological advancements are perpetual catalysts for changes that continue to transform the way we operate on a daily basis. For progressive practitioners, the constant wave of new technology provides an auspicious opportunity to increase prosperity and experience substantial benefits in other areas.

For decades, dental practitioners have been pigeonholed to tediously repetitious practices such as the monotonous treatment of caries and removal of plaque buildup. Despite this, the prevalence of malocclusion in modern children is approaching 100 percent and this growing incidence is enabling dentists to widen their scope of practice with the prospect of providing biological-based orthodontic treatment for children. Additionally, the recognition of sleep-related breathing disorders in dental patients is increasing, with recent research finding a relationship between the prevalence of malocclusion and dysfunctional breathing.¹

With this in mind, practitioners looking to diversify their pediatric treatment options in the increasingly competitive market that is modern dentistry should consider the benefits modern technology can offer. The implementation of eLearning tools in American classrooms has produced a generation of students that feels comfortable using screen-based technology for self-directed learning and is appreciative of the low-pressure environment it offers.

Senior Myobrace Educator Jessica Maidman is an advocate for patient education through the use of digital learning tools, and she considers the patient's first encounter with The Myobrace® System an important stepping stone for ongoing education and compliance. "As an educator, I use our Myobrace apps to deliver information to my patient in a child-friendly manner. It helps them understand the causes of their developmental issues, as well as the need for early intervention and corrective treatment," Maidman said.

"I have learned that children respond much better to learning from new and interesting technologies rather than an authoritative figure such as a dentist. The results are much more consistent because the information is being delivered the same way each and every time."

Myofunctional Research Co. (MRC) provides eLearning software in all major digital platforms, enabling simple implementation for almost any practice. Taking advantage of these modern technologies enables any practice to transform into a tech-savvy environment that has an edge over competitors.

MRC regularly hosts seminars in the United States that provide practitioners with hands-on experience in learning

new myofunctional techniques for the treatment of malocclusion, dysfunctional breathing and TMJ disorders as well as the implementation of eLearning tools in almost any practice.

Visit www.myobrace.com to find a seminar near you or learn more about the Myobrace Member and Certified Provider programs.

► Reference

1. American Journal of Orthodontics & Dentofacial Orthopedics 2016; 150:937-44.

(Source: Myofunctional Research)



Senior Myobrace Educator Jessica Maidman notes that 'Children respond much better to learning from new and interesting technologies.' The Myobrace Activities App is available on multiple platforms. Image/Provided by Myofunctional Research

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By Planmeca Staff

All Planmeca's CBCT units support three different types of 3-D imaging as well as extraoral bitewing, cephalometric and digital panoramic imaging. This flexibility between 2-D and 3-D enables clinics to optimize their imaging and select the techniques that work best with each case. With proprietary features for

ultra-low-dose imaging and patient movement correction also available, Planmeca provides a completely unique dental imaging experience.

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According to studies,** patient movement can occur in up to 40 percent of cases, meaning that image quality is not optimal in a significant portion of CBCT scans. Planmeca CALM corrects artefacts caused by movement, resulting in sharper final images. The algorithm can be applied after a scan is complete, but also before the exposure.

When purchasing a new CBCT unit, be sure to exercise your right to receive all valid information on a product. Always ask for accurate info on patient doses and compare the differences in image quality between standard- and low-dose images, as well as images with and without artefact correction.

The right choice will lead to improved diagnostics, saved time, reduced costs and lower patient doses.

► References

- * Ludlow and Koivisto: "Dosimetry of Orthodontic Diagnostic FOVs Using Low Dose CBCT protocol."
- ** Spin-Neto and Wenzel: "Patient movement and motion artefacts in cone beam computed tomography of the dentomaxillofacial region: a systematic literature review."

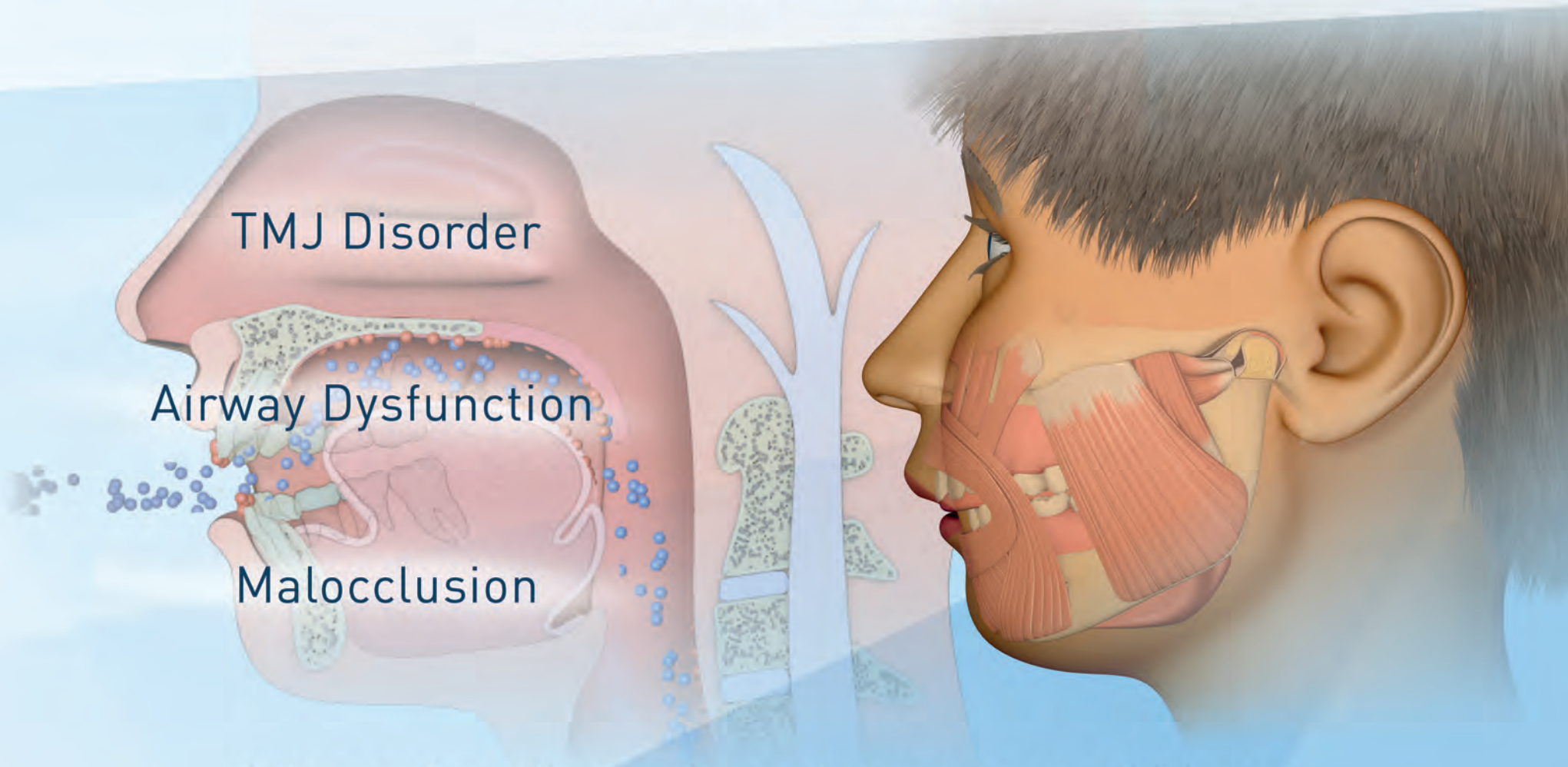
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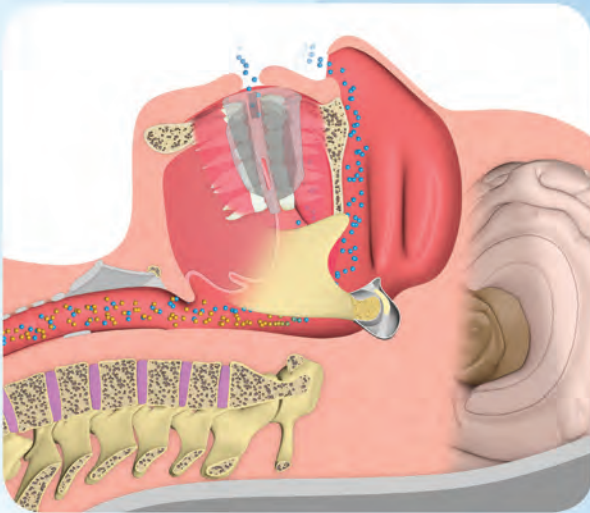
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