

MOMENTUM

2018

Patients like Robert, who have a brain injury or other medically complex conditions, will benefit from the new Specialty Care Clinic.





Eli Eliav, DMD, PhD
Director
Eastman Institute for Oral Health
Vice Dean for Oral Health
University of Rochester

In our continued effort to create long term solutions to strengthen the fragile oral health delivery system for older adults, patients with medically complex conditions, and intellectual and developmental disabilities (IDD), we've begun major renovations to build two clinics that will be equipped to address their unique needs, in addition to other structural changes that will greatly enhance resident education.

The success we've seen at UR Medicine's Complex Care Center has clearly demonstrated how beneficial a specialty approach has been. Whether our general dentists and specialists are working alone or side by side with physicians, patients with various special needs are getting the highest quality care and our residents and students are getting a superior education.

The new Specialty Care Clinic is among our top priorities. All of our residents will receive hands on training caring for medically complex patients and those with IDD. Our graduates who incorporate specialty care into their own practice will benefit communities around the world.

We're experiencing growth in other key areas, like our Master's in Dental Science, Preceptorship, and Teledentistry programs.

You'll read about new grants we've received, and where our scientists are getting published. In fact, the number of EIOH publications in peer reviewed journals has increased significantly from years before, and despite being a smaller institution comparatively, EIOH is in the top 10 of NIH/National Institute Dental and Craniofacial Research funding.

We warmly welcome new faculty and thank all the valued faculty and staff who have served Eastman and our patients for many years.

As part of the EIOH family, we invite you to be a part of building our future and continue the exceptional leadership, compassion and integrity on which this extraordinary institution was founded.

A handwritten signature in black ink that reads "Eli Eliav". The signature is fluid and cursive.

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BUILDING THE FUTURE



G

iven the many challenges with patient cooperation, communication, follow up, and hygiene, many providers, having received little to no training working with this population, often struggle to provide comprehensive

dental care, and must resort to extracting teeth from patients with complex medical conditions, or other special needs that older adults and people with developmental or intellectual disabilities have.

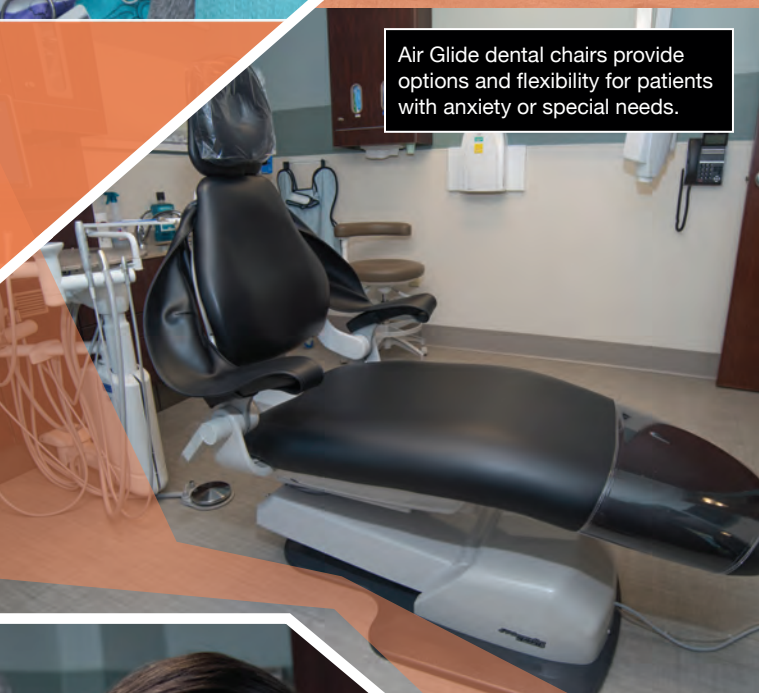
When Robert Muldrow, a 35-year-old Sunday school teacher, suffered a traumatic brain injury, he was left permanently disabled physically and cognitively, and has been living in skilled nursing homes for the last 20 years. He has hypertension, convulsions, hypertensive heart disease and is nonverbal.

He was referred to Eastman Dental within UR Medicine's Complex Care Center for extractions, but after Dr. Adela Planerova, director of Dental Services, examined him, she recommended a different approach.

Robert enjoys his dental visits with Dr. Planerova.



Dental Assistant Maureen Steinbacher helps ease David's anxiety.



Air Glide dental chairs provide options and flexibility for patients with anxiety or special needs.



Dr. Sawako Takeuchi (GPR '18) examining David.

David Goodnough, 37, has developmental disabilities. His previous experiences at dental offices were anything but positive. His mom, Pat Goodnough, shared how one dentist said David had a gag reflex and couldn't treat him. Another wouldn't let her in the treatment room. From the waiting room, she kept hearing "Stop it David!" Others told him to sit still and yelled at him. And in an all too similar scenario, the last dentist he saw said he would need to extract all of David's teeth. David turned to his mother and said, "You're not going to let them do that, Mom, are you?"

No, she wasn't. That's when she learned about Eastman Dental.

Unfortunately, there are so many people in situations similar to Robert and David. They experience significant disparities and access issues in dental care in large part due to lack of appropriately trained providers and a shortage of facilities equipped to provide the best treatment.

That's why Eastman Dental is dedicated to helping more patients with a wide range of needs through exceptional clinical care and by training dentists to provide specialized treatment that meets these patients' unique situations.

Renovations are in the early stages for new **Specialty care** and Multidisciplinary Clinics at Eastman's main site adjacent to Strong Memorial Hospital.

"Promoting oral health among these populations will require inter-professional collaboration, with physicians becoming advocates for good oral health and dentists becoming more aware of medical conditions that affect oral health," said Eli Eliav, DMD, PhD, director of Eastman Institute for Oral Health and vice dean for Oral Health at the University of Rochester.



The new Specialty Care and Multidisciplinary Clinics at Eastman are facilitating those collaborations and are paving the way for sustainable, long term solutions. They will provide coordinated and individualized care that is safe, physically accessible, appropriately equipped and staffed by health providers with the proper skills and training.

“With no compromise to the quality of care,” stressed Dr. Eliav. “All disciplines of dentistry working together with physicians, nurses and other providers will significantly improve access and quality of care, as well as increase the pipeline of qualified providers at home and abroad.”

When Pat brought her son David to Eastman the first time, she was understandably leery, despite the warm greeting they received. “We sat down, and after examining David, Dr. Planerova said, ‘I think I can save some of his teeth.’

“She shared her recommendations, the whole time talking to David and asking for his thoughts,” recalled Pat, who said she cried tears of happiness that day. **“Our experience at Eastman was just overwhelming positive. It was so foreign to what we had experienced before.”**

“At Eastman, we prefer to save as many teeth as possible on all our patients.” said Dr. Planerova, who received her AEGD and GPR training at Eastman in addition to earning a master’s in Medical Management at the University of Rochester.

“When a patient’s first visit shows extreme fear based on previous experiences has progressed to huge smiles, laughing and singing with us three or four visits later, it’s incredibly rewarding,”

Eastman Dental specialists use different types of behavioral and pharmacological management techniques during each visit and build a customized plan for each patient.

“Each member of our dental team - residents, dental hygienists and assistants - plays a very important role in this process,” Dr. Planerova emphasized. “We work with each patient’s own strengths, interests and challenges for a successful outcome.”

In Robert’s case, who was referred to Eastman for several extractions, Dr. Planerova saw an opportunity to save some of his teeth and recommended a deep cleaning, fill some cavities, as well as provide Robert with an upper partial denture over the course of a year. He beams at Dr. Planerova, who understands and respects him, and took the time to figure out a way to communicate with him.



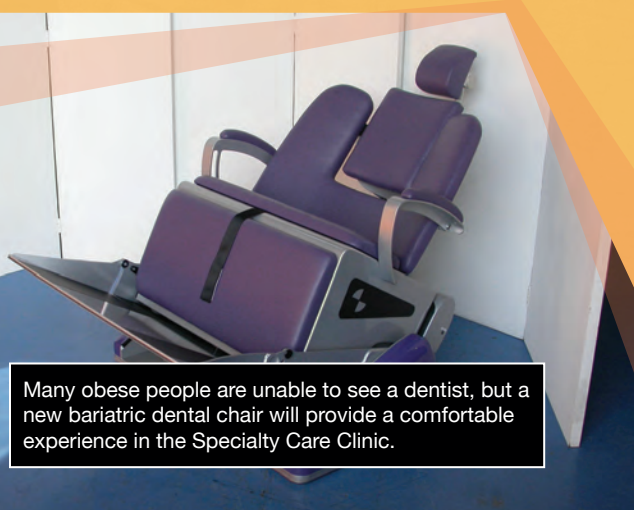
The renovations include new treatment rooms, and study rooms for residents.



A special lift allows providers to easily treat patients who are wheelchair bound.



This comprehensive approach may change the way oral health treatment is provided to patients with complex medical conditions. Inter and multidisciplinary systems of coordinated care will make a lasting difference in the general health and quality of life for patients.



Many obese people are unable to see a dentist, but a new bariatric dental chair will provide a comfortable experience in the Specialty Care Clinic.

“Both Robert and David, and many others like them, need a gentle approach, and a little extra time to acclimate to the dental room,” Dr. Planerova added. “During every visit we work step by step to achieve better cooperation. The definition of a successful visit may vary. David is an example of a patient who came to our clinic so afraid and soon he was able to tolerate surgical extractions, while he was leaving the clinic happy and satisfied.”

Unlike Robert, David is verbal and able to share his thoughts with his mom. “If there’s a problem,” Pat said, “I can help work it out. But what about the ones who are unable to express themselves? **Finding Eastman Dental was a dream come true.**” ♦

WHY WE GIVE

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INSTITUTE FOR ORAL HEALTH

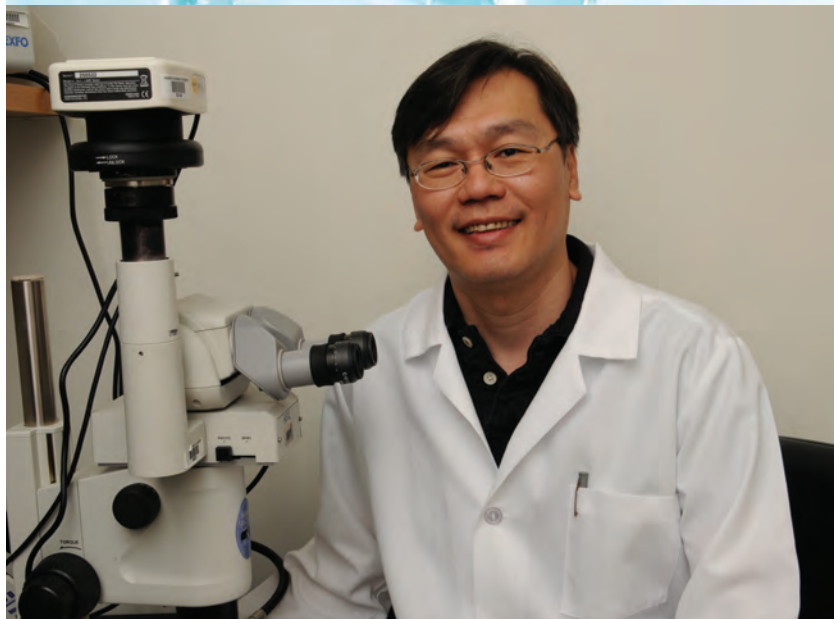
Dr. Sean McLaren (GPR '03, Pedo '06) and Andrea McLaren

It’s all about the kids for Sean and Andrea McLaren. Together, they support charities that help children, including giving back to Eastman Dental as George Eastman Circle members.

“The feeling you get is immeasurable,” said Sean, “knowing the good that happens here on a daily basis, not only from a resident education standpoint and the growth of the next generation of professionals, but also the everyday families we see. We’re the safety net for those who come here from 3 – 4 hours away because nobody else has the facility or the willingness or the ability to take care of these kids.”

“We can take our success and blessings in life and help make life a little easier for kids who haven’t had the opportunities that we had growing up,” Andrea added. “For us, it just makes sense.” ♦





EIOH Scientist Lands \$2.5 Million Grant to Continue Stem Cell Research

Wei Hsu, PhD, professor of Biomedical Genetics in the Center for Oral Biology and a scientist with the Eastman Institute for Oral Health at the University of Rochester Medical Center, received a \$2.5 million, five year grant to continue his groundbreaking work involving the role of stem cells in tissue regeneration and reconstructive surgical repair.

Currently, the only solution for extensive large bone defects caused by cancer surgery, congenital malformation, trauma and progressive deforming diseases, is to undergo a reconstructive operation. For the 2.2 million cases a year around the world conducted in orthopedic, plastic and oral surgeries, these operations usually involve autografts that require transferring bones from other parts of the body.

“However, bone grafts are encumbered by numerous disadvantages, including donor site morbidity, limited bone supply and complications of extended operating

time,” Dr. Hsu explained. “The success of such reconstructions also remains highly challenging due to several limitations.”

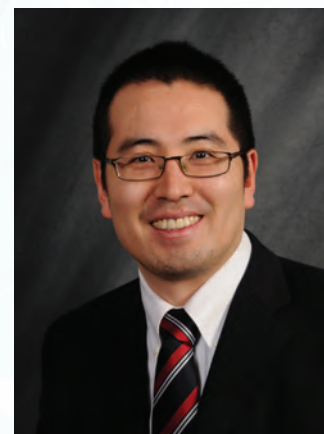
Through the years, scientists have explored alternative approaches, especially stem cell-based therapy, but the lack of knowledge regarding stem cells specifically for craniofacial skeletogenesis has greatly restricted further advancement.

The grant, titled Stem Cells for Craniofacial Bone Repair and Regeneration, is funded by the National Institute of Dental and Craniofacial Research, part of National Institutes of Health, will further explore the use of stem cells in reconstructive surgical repair.

Using state-of-the-art mouse genetic models from Dr. Hsu’s 2016 work that successfully identified and isolated a novel stem cell population from the craniofacial skeleton, Dr. Hsu and Takamitsu Maruyama, Ph.D., research assistant professor of Dentistry and co-investigator for the grant, will

now study how these stem cells are regulated to control normal formation and maintenance of the mouse skull.

“We also want to understand how to maintain the stem cells’ undifferentiated state, how to expand their numbers, and how to control their ability to make bone or cartilage cells in the petri dish,” Dr. Hsu said. “Then, we’ll aim to examine the therapeutic potential of these stem cells. We hope the completion of this project will advance the field of regenerative medicine and move closer to clinical applications using stem cell-based therapy.” ♦



Takamitsu Maruyama, Ph.D.



Moustafa, with his patient, Quichi Yu, is studying the change of oral bacteria catabolism after radiotherapy from head and neck cancer.



Moustafa Youssef always knew he wanted to be a doctor. As a young child, he listened wide eyed to his father's stories of being a physician and the rewards of helping so many people.

But after researching medical sciences as he approached college, Youssef realized it wasn't for him.

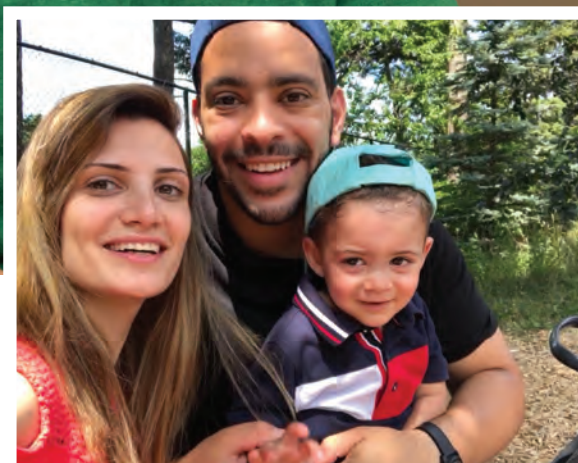
"I started researching another branch of healthcare," he recalled. "From the first book I read about dentistry, I felt that I was created to be a dentist."

Impressed by the U.S. education system and high quality treatment after a brief observership in the Oral and Maxillofacial Surgery Department at the University of Maryland, he decided when he graduated from dental school in Egypt, he would pursue a post-doctoral specialty in the States. But a couple roadblocks-- failing the second part of the National Board

Dental Examination and participating in required military service—kept him in Egypt for the next year and prevented him from achieving his dream of studying in the U.S. at that time.

"I was not going to give up," said Youssef, a husband and father of a young son. "So I decided to study for the second part during my 14 months of military service."

When Youssef passed the second part of the NBDE, he began to apply for U.S. post-doctoral programs. But when



Moustafa, his wife Sara and their son Selim enjoy exploring the Rochester area.

nothing was panned out, he decided to study endodontics in Egypt, hoping it would strengthen his skill set and consequently his application. He continued to apply while working as an endodontist in Saudi Arabia, gaining more experience toward achieving his goal and realizing his dream.

"Some of my colleagues who were doing an AEGD residency program at Eastman Institute for Oral Health in Rochester, NY were encouraging me to come and apply for this coveted program," he said. Youssef

Paving the Way with a Preceptorship

was encouraged when he was invited to interview in the Fall for the highly competitive program.

That's when he decided to apply to one of Eastman's 12 Preceptorship programs, designed to provide dentists with opportunities to obtain practical experiences in postdoctoral dental education, basic and translational sciences and to increase the knowledge base in advanced and specialty dentistry, dental public health treatment of diverse patient populations.

"Dr. Yunker's enthusiastic words gave me a positive energy to apply and keep pursuing my dream, which was also shared by my family."

With his family's support, Youssef left behind his wife and son, friends and job to begin the four month preceptorship program at Eastman in January, 2017. "All I needed to do was to prove to everyone that I have the capability of being a good dentist.

"From the first day that I stepped my foot in the Eastman Institute, it felt like home, especially after meeting with the chair, Dr. Hans Malmström, who was very humble and very supportive," he said.

After settling in and getting to know the faculty, residents and staff in the General Dentistry Department where the AEGD residency program is housed, he began to shadow Dr. Malmström as he assisted and helped the residents with various treatment procedures.

"I was surprised at the level of teamwork and the preceptee experience fueled my desire to get into the program even more," he explained. "I promised myself I would not lose this opportunity to be one of his students."

Youssef credits many residents who gave him the chance to present with them in their literature reviews.

"Everyone was so helpful, friendly and respectful," he added. "Helping them present gave me an opportunity to show my skills and be more engaged with the team."

But Youssef's persistence, positive attitude and determination would not prevail. In the middle of his preceptorship, he received his rejection letter.

"I was so disappointed, but I decided to look at the positive side and be

grateful for the opportunity to see this amazing place, where the quality of the education and treatment is phenomenal," he said. "It made me even more eager to achieve my dream."

During the last week of his preceptorship, he was packing his bags to head back to Egypt.

"He performed very well in the preceptorship this Spring so we decided that we wanted to make a spot available for him," said Dr. Malmström. "He especially demonstrated his skills and interest in research, so we allowed him the opportunity to join the three year program, which entails one year of research followed by the two year AEGD program."

"I was so shocked!" Youssef said. "It was one of my happiest moments in my life. He made my dream come true. It's such an honor to be part of a well renowned institute."

Today, Youssef is involved in many research projects under the supervision of Drs. Malmström, Xiao and Ren. "It's an amazing opportunity, and a really good experience to be among their teams," he said. ♦

“It's such an honor to be part of a well renowned institute.

~ Moustafa Youssef

Dr. Jack Caton Had Major Role in World Workshop



Dr. Jack Caton (Perio '73, MS '73) professor and chair, Eastman Institute for Oral Health's Periodontics Department, served as a co-chair for the World Workshop on the Classification of Periodontal and Peri-Implant Diseases and Conditions.

After three years of planning and intensive literature reviews, more than 150 top experts in periodontal science, education and clinical care from Europe, Asia, Australia and the Americas met to discuss and reach consensus on the classification and diagnosis of periodontal and peri-implant diseases and conditions. Significant periodontal disease affects more than 50 percent of the population worldwide and diseases around dental implants is on the rise.

"The purpose of the workshop was to bring together global leaders within periodontology and implant dentistry to update the classification using current evidence," said Dr. Caton, a longstanding leader in the field.



Dr. Caton, who worked alongside three other co-chairs from the United States and Europe, has been very active in the classification and diagnosis process since the 1970s. As the expert with the most experience, he also served as facilitator during the conference as the various work groups presented their recommendations.

"It's been nearly 20 years since the last classification workshop, and scientific findings over this time period justified revisiting and updating the classifications that will help provide optimal care for patients, as well as more precise case definitions for scientists studying the diseases," said Dr. Caton, a past president of the American Academy of Periodontology.

The new classification will provide periodontists, prosthodontists, general dentists, dental hygienists and patients the ability to communicate and have a common language based on a simple diagnostic criteria that is understandable and informs treatment decisions.

"For example, implant dentistry has become a major component of patient treatment planning and care since the last workshop in 1999," Dr. Caton explained. "And just like tissues that support natural

teeth, the bone and soft tissues surrounding dental implants are susceptible to problems without proper care and management.”

The new proceedings outline definitions of health and disease in this particular context, acknowledging that with a growing number of implant cases comes an increased need to identify and treat implant-related conditions.

Other highlights from the proceedings include a re-categorization of various forms of periodontitis, a new staging and grading system, and the inaugural classification for peri-implant diseases and conditions.

The staging is more precise now in terms of classifying severity of disease but also the complexity of the treatment of the disease. “The more severe the disease, the more complex the disease, with many factors to consider,” Dr. Caton explained. “Like other

diseases, the staging system is now in four levels, and the new grading system will lead to treatment plans that can be personalized for the individual patient.”

With almost 50 years of leadership in this process, Dr. Caton is amazed with the progress.

“It’s great to see the enthusiasm and breadth of knowledge from this new group of leaders from different parts of the world,” he said. “This group of scholars has evolved from a very small contingency almost exclusively from the U.S. and Western Europe to a large group from all over the world. It’s a very special thing to be a part of.”

The complete suite of review papers and consensus reports from the workshop is available in the June 2018 print and online special issues of the *Journal of Periodontology* and the *Journal of Clinical Periodontology*. ♦

WHY I GIVE

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Dr. Caro Lawrenson



John [Arthur John Lawrenson (GenDen '74)] was a postgraduate student at The Eastman Dental Centre in 1973/1974. He had a very fulfilling year gaining a huge amount of experience, participating in a research project and learning from the best. As importantly, he made many friends, some of whom continue to be in close touch.

Sadly, John passed away on 15/12/2010 but those Rochester contacts have kept me informed of the changes taking place at The Eastman, some of which I saw when I visited four years ago.

After discussion with those friends I felt that John would approve of my decision to donate a sum of money to the new project. I have chosen to name the Work Room in the Specialty Care Dental Clinic in his memory in recognition of an extremely formative year in his life. ♦

The late Dr. John Lawrenson, pictured here at age 55, engaging in one of his favorite pastimes.



How Social Work Improves Health Outcomes

When Eastman Dental established a pioneering Social Work program 25 years ago, no one knew if it would last.

"Most stand-alone nonprofit dental institutions similar to Eastman have a hard time allocating the funds to programs like social work because they don't get reimbursed like clinical treatments do," said Dr. Levy DMD, MS, Eastman's medical director and chief quality, compliance and safety officer for Dentistry.

A dedicated social worker for dental patients wasn't common then, and still isn't. Only a few dental programs actively employ a social worker, including two others in New York.

For Eastman Dental, commitment to social work is a part of an integrated approach that treats not just an ailment of a patient, but the patient as a whole. "Many of our patients are dealing with a far more complex web of issues behind the scenes than a cavity," Dr. Levy explained.

Many of our patients are dealing with a far more complex web of issues than a cavity.

~ Dr. David Levy



The Siebert family's situation is one of many examples of how Social Work helps advocate for needed treatment. Full story on EIOH's website.

Lenora A. Colaruotolo, LMSW, has been Eastman's primary social worker for 14 years. She's established an extensive network of resources that help provide patients access to an array of support services.

Social Work receives referrals, which have increased 260% in the last 10 years, from a variety of sources including Eastman Dental residents and faculty, hospital clinicians, school teachers and nurses, agency personnel, and at times, the patient or a parent.

Social Work collaborates with providers and peers in hospital outpatient clinics and in-patient settings to ensure

comprehensive health care for patients by coordinating pre-operative requirements, tandem surgeries, insurances, family transportation and accommodation for long-distance travel, and safe discharge.

"It has been our experience over the last 25 years that addressing challenges like poor adherence to treatment, inadequate resources, family issues, language and cultural differences involves much more than improving oral health literacy and removing concrete barriers," said Lenora, who works with residents to broaden their understanding of patient needs. "Individuals and families made vulnerable by poverty, loss and illness need significant and ongoing support to follow through on recommendations for themselves and their children." ♦

Training Young Dentists Now and Later

"WHEN I FIRST BEGAN MY CAREER in dentistry, I focused only on treating patients, but soon I began teaching and doing research at the Eastman Institute for Oral Health because I wanted to do more. Decades later, my wife, Nancy, and I helped raise funds for a fellowship to support a prosthodontic graduate resident in perpetuity—so, in a way, we'll be helping to train young dentists forever. We also established a charitable remainder unitrust that will ultimately support the prosthodontic program. In the meantime, that unitrust, which is invested in the University's endowment, provides us some income during our retirement. As the fund grows, our retirement income and estate gift grow with it, enabling us to do more now *and* later. For us, the endowment felt like the right place to put a portion of our money."

— *Gerald N. Graser, DDS, MS, '72D (Pdc), '75D (MS). Dr. Graser is pictured with his wife, Nancy, at the Eastman Institute for Oral Health, where Dr. Graser served as chair of the Prosthodontic Department for three decades and is professor emeritus. The Grasers are Founding Members of the Wilson Society.*



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Dr. Xiao's research team includes (l to r) Hossam Abdelsalam, Dalia Mitch, Naemah Alkhars, Marie Thomas, Jin Xiao, Yan Zeng, and Moustafa Youssef.

Is Oral Yeast a Culprit for Kids' Tooth Decay?

Dr. Xiao's Research Will Provide the Answer



Stephanie Bakenhus and her baby Nora Jacobs are participating in Dr. Xiao's study

Jin Xiao, DDS, PhD, an EIOH assistant professor, has received \$856,669 to study the association between yeast and the onset of Early Childhood Caries.

This career development award funded by NIH's National Institute of Dental and Craniofacial Disorders will investigate the prevalence of yeast in the mouth of infants who are a high risk of Severe Early Childhood caries and their mothers, the association between oral yeast and onset of early childhood caries and the interactions between oral yeast and *S. mutans* in early life.

"I'm studying to see if yeast, or *C. albicans*, may be the bigger, but easier to treat culprit," Dr. Xiao said. "Over the past 10 years, there has been some initial research showing that yeast is present among ECC cases. More recent studies

show yeast is prevalent in the oral cavity in 80-90% of children with ECC, compared to 15-20% of caries-free children.”

Dr. Xiao is studying mother-infant dyads with socioeconomic disadvantages, the pathological role of *C. albicans* in the onset of severe ECC, and its maternal influence. She will further clarify the association between *C. albicans* and other cariogenic bacteria and how they contribute to severe ECC. Her study results will provide rationales of how and when to use antifungal treatment to prevent ECC.

In 2017, Dr. Xiao was awarded a \$300,000, two-year grant from the National Institute for Dental Craniofacial Research and National Center for Advancing Translational Research for similar research.

Early Childhood Caries remains one of the most common chronic childhood diseases, with nearly 1.8 billion new cases each year worldwide. It affects children younger than age 6, and the majority of kids affected live in poverty. In the U.S., children miss 55 million hours of school every year as a direct result of oral pain. Untreated cavities turn into painful infections, making it difficult to think, sleep and eat. There’s a 40 percent rate of recurrence, and taxpayers pay some \$1.5 billion each year on treatment.

“We need to find a way to better identify high risk children as well as find more effective preventive strategies,” Dr. Xiao said. “Our previous findings about the strong maternal influence on the presence of yeast in children’s mouths might open a new opportunity to prevent ECC during pregnancy and could shift the preventive strategy to before birth.”



Audra Rubio, EIOH Dental assistant, with patient Athraa Aljaysh and her daughter Shams.



Rita Cacciato, also on the research team, with Dr. Xiao.

The award will provide Dr. Xiao with experience, training, and research accomplishments that will lay the foundation for a future applications to investigate the effectiveness of using antifungal therapy for the children at high caries risk to prevent the onset and recurrence of S-ECC. Results from this cohort study and subsequent studies may lead to pathways for developing novel caries predictive and preventive strategies from a *C. albicans* perspective. ♦

Profile

ANTONIO BELLO

When asked if he could have any question answered, Dr. J. Antonio Bello (Prosthodontics '84) said he would want to know if he will be healthy when he's 75 years old.



Dr. Bello and his wife Mary at the EIOH Centennial Celebration.

“Then I’ll know the time I have left in dentistry,” he said, “to really treasure the time I have left to work as a prosthodontist. Our specialty has the tools to provide complex clinical situations with long lasting and predictable outcomes that can literally change patients’ lives.”

One way he stays healthy is by working out every weekday at 4:30 a.m., and then goes to the office to work a couple hours before he sees patients. He can accomplish more in a day than most can in a week.

BUT THAT’S HOW HE ROLLS.

After graduating from Eastman Dental with his certificate in Prosthodontics, Antonio, one of 15 children born and raised in Mexico City, spent much of his time and talent contributing to the field he loves so much. Aside from his private practice, he was past president of both the American Prosthodontic Society and the Mexico City Prosthodontic Society. He is a founder and diplomate for the Mexican Board of Prosthodontics, International Councilor for International College of Dentists, and holds memberships and participates in the Academy of Prosthodontics, Academy of Fixed Prosthodontics, American Prosthodontics Society, American College of Dentists, International College of Dentists and The Pierre Fauchard Academy, and lectured around the world.

It’s no surprise that people describe him as an outstanding leader. And also as a great clinician who is talented, knowledgeable, happy, loyal, dependable, generous, and special for many reasons.

“He has been one of the most involved prosthodontic alumni over these many years, both from his active participation and significant financial support,” said Dr. Gerald Graser (Prosthodontics ’72, MS ’75), past chair and program director of the department, and who Antonio describes as one of his life mentors.

“He cared about bringing out our best potential as a prosthodontist, but much more than that, he cared for his students as human beings,” Antonio said about Dr. Graser. “I truly believe that I am a better person thanks to his influence on me.”

Antonio always says Mary, his wife of 33 years who he met on a blind date during his residency, is the best thing that came out of his time at Eastman, closely followed by his exceptional education and lifelong friendships.

But his life could have taken a different turn if he went elsewhere. It wasn’t until he interviewed that he decided to attend Eastman’s program, and not his other front runner at UCLA.

“I had read about how Dr. Buonocore revolutionized and influenced dentistry, and the impact of Dr. Brewer’s work with overdentures and Dr. Graser’s research,” he recalled. “I knew Eastman was focusing on prosthodontics at the highest level, but I ended up there because I believed the program would be more personalized.”

And it was. In fact, he credits Eastman for providing him personal and professional growth in three major areas.

“He has been one of the most involved prosthodontic alumni over these many years, both from his active participation and significant financial support.”

Dr. Gerald Graser

“You know when the program you went through is only getting better with time, it’s got great leadership. It makes me proud to be a part of it.”

Dr. J. Antonio Bello

“First, EIOH provided me the expertise in the field of prosthodontics,” he stated. “Second, it encourages its alumni to share the knowledge among colleagues wherever you practice.

“Third, to provide the best service for all patients, even when they may not be able to afford it,” he added.

“You know when the program you went through is only getting better with time, it’s got great leadership,” Antonio added. “It makes me proud to be a part of it.”

Antonio loved teaching for 25 years at Eastman, and at Universidad Tecnológica de Mexico, Universidad Nacional Autonoma de Mexico and Universidad Autonioma de Nuevo Leon.

He stopped because he wanted to spend that time with his wife and their three children, visiting them frequently during their college years. Anyone who knows Antonio, knows his family and friends are a top priority.

“I love coming from a very large family,” said Antonio, who aside from a little gray hair,

looks just like his graduation photo. “But life provides an opportunity to find a family you choose, through your wife and friendships.”

The family of choice for him include the friends he made at Eastman during his Prosthodontic residency in the 1980’s. They include Evangelos “Ross” Rossopoulos (GenDen ’82, Prostho ’84), whose mom came from Greece to visit and cooked “amazing meals” during their first year. Fellow Prostho residents Charlie Oster (Prostho ’84), Harry Rosenstein (Prostho ’85), Izchak Barzilay (Prostho ’86, MS ’91), and Mariane Bafile (GenDen ’85, Prostho ’87) all became fast friends and have stayed close.

“Because of Antonio, I have made lifelong friendships that impact me every day,” Mariane said. “Antonio cares about the future of the EIOH even though he lives and practices two thousand miles away. His never ending generosity created a ripple effect amongst our colleagues, allowing us to design a patient treatment clinic that has some of the most advanced technology available.”

“In one word, Antonio is a gentleman,” said Dr. Carlo Ercoli (Prostho ’96, TMJ ’97,

Dr. Bello with Dr. Graser and Dr. Rosenstein



“Antonio cares about the future of the EIOH even though he lives and practices two thousand miles away. His never ending generosity created a ripple effect amongst our colleagues, allowing us to design a patient treatment clinic that has some of the most advanced technology available.”

Dr. Mariane Bafle

GenDen '99, Perio '12), chair, Prosthodontic Dept. “He goes above and beyond being a great prosthodontist, he is an outstanding human being which translates into everything he does.”

“You don’t have to know Antonio very long to see what a truly special person he is,” said Dr. Eli Eliav, EIOH director and vice dean for Oral Health at UR’s School of Medicine and Dentistry. “He is humble and kind and genuinely cares deeply about his EIOH family and the Institute as a whole.”

Antonio travels from Mexico each year to attend the Allen A. Brewer Prosthodontic Conference, which gives dentists the latest information and techniques from renowned prosthodontists. He travels again one week later to attend the Eastman Dental Foundation

Board annual meeting, which he’s never missed in the nine years he’s been on the Board.

“His mere presence at our annual Brewer conference is something our current students, alumni and faculty look forward to,” said Mariane.

“Not only that he has never missed one Brewer conference since his graduation,” added Carlo, “but he shares with the residents that they are not just graduating from the institution, they are part of a bigger role. He’s an important role model to not only Mexican dentists and prosthodontists, but also throughout the world.”

While he’s got a long way to get there, there’s no doubt Antonio Bello will still be going strong at 75 and beyond. ♦

WHY I GIVE

EASTMAN
INSTITUTE FOR ORAL HEALTH



Dr. Carlo Ercoli (Prosthodontics '96, TMJ '97, GenDen '99, Perio '12)

***E*astman has a special place in our hearts and it's not just a workplace. It's different.**

*It's a place where all of us have seen dreams come true and change lives. The new Multidisciplinary Clinic is certainly a step toward fulfilling some of the goals that George Eastman had when he envisioned service to others. **A connection between the different dental specialties and the medical field will greatly enhance our ability to serve a portion of the population who otherwise would go unserved or underserved.** ♦*



Dr. Oriana Ly-Mapes is Back and Loving It

P Perhaps it was destiny. She loved working with kids as a life guard, camp counselor, babysitter as a teen, and never understood why other kids didn't like going to the dentist.

"Dr. Ly-Mapes has quickly taken a leadership role in the clinic and is enhancing and streamlining day to day operations."

© Dr. Sean McLaren

But becoming a pediatric dentist didn't occur to Oriana Ly-Mapes until she worked for a few years as a general dentist after earning her dental degree at the University of Western Ontario, not far from her hometown in Ontario, Canada.

"I had a lot of patients who were children, and the nearest specialist was about two hours away," she explained. "I tried to treat most of my patients and was fairly successful." One patient she really connected with had autism, and the family was very appreciative.

That's when she decided she wanted more education and training with pediatric dentistry, and after checking out various programs, she chose Eastman.

A 2012 graduate of the program, Dr. Ly-Mapes said the environment at Eastman allowed for the opportunity for true interdisciplinary care for the patient's benefit. She also completed a one-year interdisciplinary fellowship in neurodevelopmental and related disorders (LEND program), at the Strong Center

for Developmental Disabilities, Golisano Children's Hospital.

"The strength of Eastman's program is the focus on behavior management," she said. "The clinical experiences really allow you to develop key skills that are needed for fundamental pediatric dentistry."

And, she added, there are plenty of faculty who give residents plenty of support to grow as a practitioner.

During her residency, she and husband Dr. Bart Mapes, a general dentist, planned to open a family practice together. When she completed her training, they moved back to Canada and when she wasn't working at a pediatric dentistry practice, they started renovating space they purchased in an office building.

Their dream came true and they operated a successful family practice for four and a half years. During the same time, they had three children, all boys.

"We didn't realize how family friendly the Rochester area was

"I feel supported by all the people around me, and I love trying to add to the residents' well-rounded education through technology and advances in dentistry."

© Dr. Oriana Ly-Mapes

until we moved away and had children!" she said. After much heartbreaking consideration, they made the difficult decision to sell their practice to devote more time to their kids.

Today, as a full time assistant professor in Eastman's Pediatric Dentistry Department, Dr. Ly-Mapes is enjoying combining her experiences from private practice with her love of interacting with colleagues in a clinical setting.

"It's great to be back—it feels like home," said Dr. Ly-Mapes,

who now enjoys all the same outdoor activities like camping and hiking with her family as she did with her co-residents. "I feel supported by all the people around me, and I love trying to add to the residents' well-rounded education through technology and advances in dentistry."

"Dr. Ly-Mapes has quickly taken a leadership role in the clinic and is enhancing and streamlining day to day operations," said Dr. Sean McLaren, chair, Pediatric Dentistry. "She brings a keen eye

coming from a private practice model that will help our residents become even more successful in the future. We are so pleased to have her on our faculty team." ♦

Dr. Ly-Mapes working with former resident Dr. Kadeem Bartley (Pedo '18)



WHY I GIVE

EASTMAN
INSTITUTE FOR ORAL HEALTH

Dr. Cynthia Wong (Pedo '13, MS '15)

For me, Eastman is a very special place because it's where I found my passion, lifelong friendships and my education. I had a lot of great mentors and teachers who were very devoted, which I think is rare. They made themselves available to help even in off hours.

Eastman is a place where we try to do the best for every patient. Those children cannot advocate for themselves. We have tried to make use of every penny that we generate from different sources. It's difficult to stretch that dollar nowadays with all the reimbursement cuts. So to give our patients the best care, it takes much more than what insurance gives us. For me, giving back is the least I can do to hopefully make their lives happier. I do what I can to pass along the love and legacy of Eastman. ♦





Eastman Dental Working to Reduce Opioid Abuse

Adolescents and young adults who fill an opioid prescription for wisdom teeth extractions are more than twice as likely to continue filling opioid prescriptions weeks or months later, according to a study conducted at the University of Michigan, and published recently in the *Journal of the American Medical Association*.

With 115 overdose deaths every day in the U.S., the issue has become a public health crisis with devastating consequences. Roughly 21 to 29 percent of patients prescribed opioids for chronic pain misuse them, and between 8 and 12 percent develop an opioid use disorder, according to the National Institute on Drug Abuse.

In light of the current epidemics in prescription opioid abuse, Eastman Dental is working on reducing opioid prescriptions by dentists through what it does best: clinical care, research and education.

The New York State Internet System for Tracking Over-Prescribing, or iSTOP, creates a real-time system to check a patient's recent prescription history to determine whether he or she exhibits drug-seeking activities. Eastman Dental's Urgent Care Clinic has implemented the mandatory

PDMP/iSTOP since then. The iSTOP program is especially helpful to healthcare professionals who are not familiar with the individual's medical history, such as emergency room physicians and urgent care dentists, who will be able to check the real-time database and determine if a similar prescription already exists for an individual who is seeking opioid drugs.

"In our urgent care clinic, we mandated every provider to check the PDMP before prescribing an opioid to a patient," said Dr. Linda Rasubala, EIOH assistant professor and assistant director of the Urgent Dental Care Clinic. "We are confident that the PDMP had a significant impact on the number of opioids being prescribed for dental patients in our clinic."

Before the drug monitoring program was initiated, 24% of prescriptions given at



Eastman's urgent dental care clinic were opioids. In the first year the PDMP was used, that number dropped to 15%. Major progress continued with even fewer opioid prescriptions being given, and showed another 5 % decrease the following three months. An educational program was also initiated to provide the dental residents rotating through the urgent care clinic an evidence-based guideline in prescribing medications for acute dental pain.

Fast forward to late 2016 and early 2017, three years after the PDMP and the prescription education program was implemented. The number of opioid prescriptions given to patients in Eastman's urgent dental care clinic has plummeted to 1.1 %. Not surprising, the number of prescriptions for nonsteroidal anti-inflammatory drugs increased significantly during those three years.

"The success of the PDMP and evidence-based prescription education for dentists is clear," said Dr. Rasubala. "We train and mandate all the residents to use the PDMP and learn the right way to prescribe pain medications, so when they move on to their own



practices, we are optimistic they will continue to use it. Eventually, we should see an overall reduction in opioid prescriptions in dentistry."

Another way to reduce opioid drug prescriptions is to understand how well different pain medications work in different individuals. If we know how well a patient will react to various pain medications before anything was prescribed, it would very likely reduce opioid prescriptions, and in turn lower the chance of addiction or overdose. Second, it would increase the patient's comfort level because the medication's success would be practically guaranteed.

Eastman Dental researchers are now gathering DNA from patients who are about to have third molar, or wisdom teeth extractions performed, to learn what medication they will best respond to for pain following the procedure. When the data from the patients is gathered and analyzed, it may shed light on what pain medications are most effective for postoperative dental pain. ♦



renovations



EIOH Director Dr. Eliav, SMH Chief Operating Officer Kathy Parrinello, PhD, Betsy Slavinskis, former Director of Nursing Practice, and OMFS Chair Dr. Kolokythas

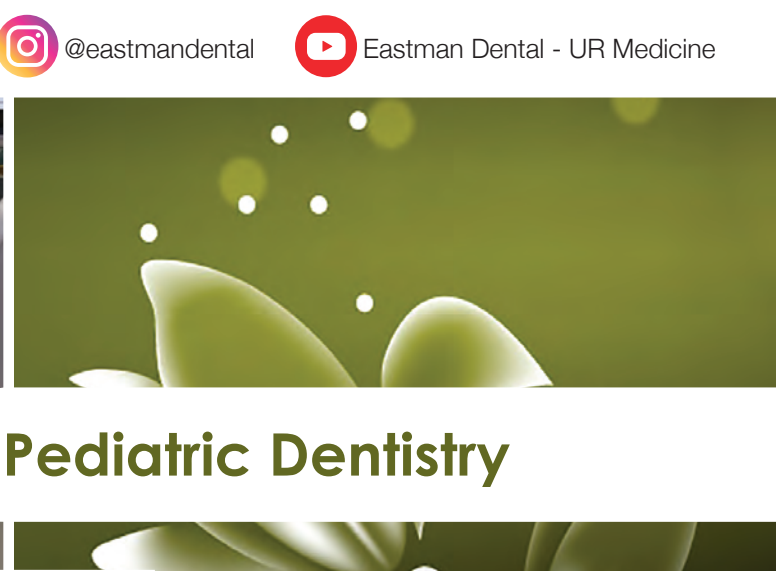
Oral and Maxillofacial Surgery

Patients and residents are benefitting from recent renovations at Eastman Institute's Oral and Maxillofacial Surgery Department, where there are now five state-of-the-art procedure rooms and a five-bay recovery room, allowing a more comfortable and relaxed experience for patients and an enhanced educational experience for residents. In addition to the department's previous services, they are now able to use perioperative navigation, which allows for improved precision and accuracy for implants and reconstruction procedures.





BEFORE



Pediatric Dentistry



AFTER

A much needed update, thanks to donors Pediatrician Dennis A. Clements III, MD, PhD, MPH, and his wife Pediatric Dentist Martha Ann Keels, DDS, PhD, has brought the pediatric dentistry clinic to a more current state for patient care and resident education.

All 17 operatories received new cabinetry and dental chairs, in addition to a new sterilization room, capnography machines in the sedation rooms, a handheld radiograph unit, new paint, wallpaper and flooring throughout, and track LED lighting that provides more flexibility and visibility.

A dedicated sensory room with a non-traditional, non-invasive rocker chair and ability for low lighting and decreased overall stimuli provides exams and basic treatment in a less intimidating environment for very young patients and those with special needs. ♦

Dedicated Sensory Room





Dr. Virginia Yañez Fontenla (GenDen '16, Pedo '18), of Ferrol, Spain, joined as an assistant professor. She earned her DDS from the University Alfonso X 'El Sabio' in Madrid.

In addition to the AEGD and Pediatric Dentistry certificates she earned at EIOH, Dr. Yanez completed a one year Community Dentistry fellowship, a LEND fellowship, and a Public Health postdoctoral program. She is certified in Nasoalveolar molding by NYU. Dr. Yanez is working in EIOH's Pediatric Dentistry Department and Community Clinics.



Dr. Pooja Gangwani is an assistant professor in the Oral and Maxillofacial Surgery Department. She earned her DDS from New York University College of Dentistry, and completed an Internship at Thomas Jefferson University Hospital. She received her advanced training in Oral and Maxillofacial Surgery at St. Joseph's University Medical Center. Dr. Gangwani also holds a master's degree in Public Health Epidemiology from University of North Texas Health Science Center. She has a particular interest in clinical research and has served as an author of book chapters and articles in peer-reviewed journals.



Dr. Sergio Varela Kellesarian (GenDen '17, GPR '18, MEd '18), of Caracas, Venezuela joined as an assistant professor. He received his DDS from Santa Maria University in Caracas, and his MEd from Warner School, University of Rochester along with his AEGD and GPR certificates from EIOH. Previously he served as an assistant professor at the Santa Maria University and worked for 10 years as a general dentist in his private practice. Dr. Kellesarian has an extensive research background, and has presented his research nationally. Dr. Kellesarian will provide clinical care and supervision in four EIOH clinics and continue his different research projects.



Dr. Alejandro Sanchez-Lara (GenDen '15, Prostho '18), of Queretaro, Mexico is an assistant professor. He earned his DDS and a three year Prosthodontic residency from Universidad Intercontinental in Mexico before working in private practice for two years.

He joined EIOH and completed the Advanced Education in General Dentistry, followed by a research fellowship and a three year Prosthodontic Residency at EIOH. He is serving in the AEGD, Oral Medicine and Prosthodontic residency programs providing clinical care and supervision. ♦

Salivary Gland Cells' Role in Inflammation Subject of New Study

Catherine Ovitt, PhD, associate professor of Biomedical Genetics, and a member of the Center for Oral Biology in EIOH, recently received a \$423,500 National Institute for Dental and Craniofacial Research grant titled, "Single chemosensory cells in the salivary gland."

"In tissues that are exposed to the external

environment, such as the trachea and the intestine, it has recently been discovered that there are a small number of specialized cells scattered within the epithelium, which serve a very important function," explained Dr. Ovitt, who studies salivary glands and investigates strategies for their repair or regeneration after damage from radiation

treatment. "These cells act as sentinels to alert the tissue to the presence of external, environmental insults."

If they detect a foreign threat, such as bacteria or a toxic substance, they direct the tissue to activate an immune response.

"We have evidence that mouse and human salivary glands have

such sentinel cells," she added.

This R21 grant, intended to encourage developmental research by providing support for the early and conceptual stages of project development, will investigate whether these cells play a role in chronic inflammation or Sjogren's syndrome in the salivary glands. ♦

WHY I GIVE

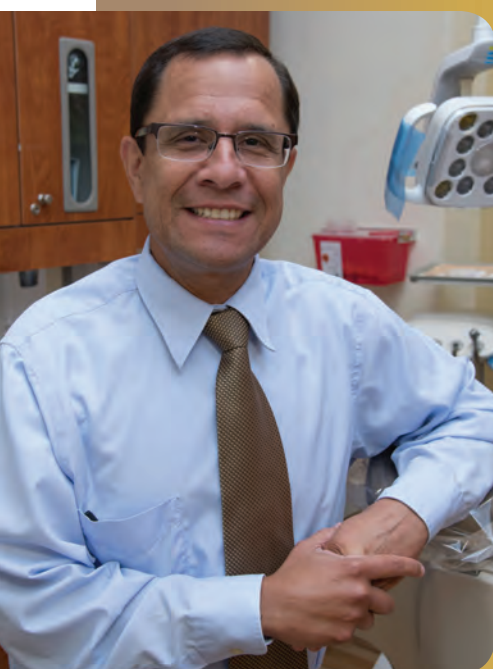
EASTMAN
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Dr. Julian Kahn (GenDen '97, Prostho '03)

I feel very proud to be part of this institution. What we had at Eastman is something unique that you cannot find anywhere else. I believe the leaders we had as mentors helped take us to the next level.

Giving back to our facility helps the residents to appreciate that they are not alone and that they have people supporting and helping them. I enjoy teaching one day a week and sharing my passion of prosthodontics.

I give financially because I believe there are some people who don't have the opportunities or resources to gain a higher education or access to technology, or attend meetings. I believe it's a small payback for what we received. ♦





Imam Abdulrahman bin Faisal University

Why did you decide to participate in this program?

Dr. Alshareef

I have a lot of interest in working in the academic field where I can teach students, see patients and conduct research. For these reasons, I decided to participate in a program that prepares me for all of these aspects.

Dr. Al-Madani

EIOH has a long history of leadership in dentistry with graduates from all over the world. Moreover, they offer the program that fits perfectly with my career aims and goals.

What programs did you complete?

Dr. Al-Madani

I completed two years AEGD residency, a master's in Public Health, a one-year clinical fellowship in General Dentistry, and four years of the Faculty Training Program. With regards to research, I participated in two papers which are ready for publication and currently working on three other projects. I also was awarded the Bibby Award [for this year].

Dr. Alshareef

I completed a two year AEGD program and a master's program in Dental Science, where I am currently working on my thesis. I also had the opportunity to work as a clinical resource in General Dentistry for two years. I took courses in leadership and education at the University of Rochester's Warner School to improve my teaching skills and my performance in other academic aspects, such as curriculums preparation.

Five years ago, University of Rochester's Eastman Institute for Oral Health entered into a Memorandum of Understanding with Imam Abdulrahman bin Faisal University (IAU) and Kuwait University to accept young faculty members from their institutions into a Faculty Development Training Program.

"It has been a very exciting journey to follow these young faculty members through this very complete program," said Dr. Hans Malmström, chair, General Dentistry and program director for the Advanced Education for General Dentistry training at Eastman. "It's a full and intensive four-year program designed to equip professionals with exceptional leadership and management skills, and to become, immediately upon graduation, a productive and successful faculty member at any institution in the world."

In addition to high level training in advanced general dentistry, a master's degree in either Science, Public Health or Education, they also receive training in public health research, as well as in education and administration. Presently, there are 11 residents enrolled in this program.

The first graduates, Drs. Ahmed Alshareef and Abdullah Al-Madani, both with Imam Abdulrahman bin Faisal University (IAU), share a little bit about their experience. ♦

(l to r) During Eastman's Centennial Celebration, Drs. Malmström and Eliav receive a gift from Dr. Fahad Al-Harbi and Dr. Adel Alagil, IAU's Dental School Dean and Associate Dean, respectively.



Specifically, how did you benefit from the program?

Dr. Al-Madani

Many things were beneficial. Clinically, I learned new techniques in General Dentistry and improved my surgical skills. I also gained experience in research by participating with different teams on different projects and attended many literature review seminars. Moreover, I took Leadership, Teaching and Community Partnership courses.

Dr. Alshareef

I can confidently say that the program has completely met my expectations. The lectures, courses, and seminars taken during the program were insightful and helpful in improving my knowledge and skills in almost all aspects of general dentistry.

The amount of clinical experience I gained in the oral surgery field, which included implants, complicated extractions, and other types of surgeries were clearly beyond what I expected. In addition to oral surgery, the program helped significantly improve my skills in esthetic dentistry. A multitude of hands-on activities, lectures and international speakers were extremely beneficial in increasing my confidence in esthetic dentistry.



Kuwait University

What is your plan now that you've finished the program?

Dr. Al-Madani

The plan is to work in College of Dentistry at IAU, and to share my experience and knowledge with the students and colleagues there. Moreover, to be part of the Public Health Department and Community Dentistry department at IAU.

Dr. Alshareef

My plan is to go back to my home country, Saudi Arabia, to teach at IAU and utilize the skills and experience gained from this program to train dental students. Long term, I would love to own my own practice and treat and care for patients in my hometown.

جامعة الإمام عبد الرحمن بن فيصل
IMAM ABDULRAHMAN BIN FAISAL UNIVERSITY



Sabah Al-Salem Kuwait University City
Kuwait University - Al-Shadadiyah

Would you recommend the program?

Dr. Al-Madani

I will definitely recommend this program to everyone who is interested in Academia. The faculty training program will provide you the requirements and experience needed to start a career in Academia.

Dr. Alshareef

I would definitely recommend the program to any of my dental colleagues who are looking to become qualified in academics as well as for those who are wishing to be better prepared in a private practice setting.



(l to r) Drs. Abdullah Al-Madani, Alexis Ghanem, Michael Yunker, Ahmed Alshareef and Hans Malmström at the Convocation Ceremony, marking the completion of the Faculty Training Program.

Eastman Institute has many employees who have served more than 20 years!

Here are just a few of them. Others will be featured in future issues.



(l to r) Nadine Basalyga, Lead Scheduler, 29 years; Delores Lessard, Insurance Collection Specialist, 21 years; and Bernadette Peters, Lead Collection specialist, 27 years.

Brian Winslow

Part-time Faculty, Pediatric Dentistry, 32 years

I enjoy giving back to the community by helping educate future pediatric dentists and helping the underserved community. Being at Eastman Institute keeps me learning and on top of the latest developments in clinical care and research.



Roberta Faustoferri, Research, 31 years, Kathy Scott-Anne, Tech Associate in Research, 31 years.

Kathy Scott-Anne

Tech Associate, Research, 31 years

I have never felt as though my job was “work” because I just love what I do! I love how every day is different and the challenge of trouble shooting and how I am constantly learning and growing.

These years have been so rewarding! I’ve been so blessed to work with such amazing people, who have been my mentors and good friends. I also love to pay it forward by mentoring others and sharing my experience!

Terre McElwain

Dental Assistant, 31 years

One of the main reasons I've enjoyed my job here is because I know on a day to day basis we do work that makes a great impact on people's lives. I've met so many dentists, year after year, from different countries all around the world. It's the diversity that has kept it interesting and enjoyable for me. Every day I get to work with someone new.



(l to r) Phong Ngo, OMFS Dental Assistant, 20 years; Lisa Lord, Administrator and Residency Coordinator, 32 years; Lisa Lisuzzo, Dental Assistant, 22 years.



(l to r) Terre McElwain, Dental Assistant, 29 years, Alla Krokmal, Dental Assistant, 20 years, Karen Judy, Clinical Administrator, 36 years, Noemi Hernandez, Dental Assistant, 30 years, Dorie Leitten, Dental Assistant and Sterilization Trainer, 21 years.

Noemi Hernandez

Dental Assistant, 30 years

At Eastman, I have learned professionalism and diversity, and most of all I gained a second family. I love what I do in the General Dentistry Lab and as the Sterilization coordinator before that. I learn something different every day and I strive to learn more, no matter how old I may get!



Henry Schein Furnishes Seven Treatment Rooms in New Specialty Care Clinic

Designed for Patients with Special Needs

UR Medicine's Eastman Institute for Oral Health has received a donation of equipment from Henry Schein Inc. to completely furnish seven treatment rooms in Eastman's new Specialty Care Clinic, which is designed for patients with special needs.

Henry Schein's donation, valued at \$500,000, includes new dental chairs, units, dental hand pieces, stools, and cabinetry. The donation is an initiative of Henry Schein Cares, the company's global corporate social responsibility program that promotes expanded access to health care for underserved and at-risk communities around the world.

By educating dentists who are getting advanced training at Eastman Institute, the Specialty Care Clinic is advancing the ability to meet the unique needs of patients who are older adults, have complex medical

conditions, or have intellectual and developmental disabilities.

"The majority of these patients are currently not receiving adequate care, because few facilities are equipped, and few dentists are trained to accommodate them," said Dr. Eli Eliav, director of Eastman Institute for Oral Health and vice dean for Oral Health at the University of Rochester Medical Center. "This gift from Henry Schein helps bridge that gap by allowing us to treat more patients and train more residents to improve access and care for patients with unique needs."

"We are happy to provide equipment that Eastman can rely on to deliver high quality care for the community," said Jennifer Kim Field, vice president, Corporate Social Responsibility, Henry Schein Inc. and executive director, Henry Schein Cares Foundation. "The company is committed to helping ensure dental schools have the tools they need to succeed and to improve access to care for communities they serve."

"All of our post-doctoral residents will receive hands-on training in our new Specialty Care Clinic and bring their new skills and experience into their own communities around the world," Dr. Eliav added.

A world leader in community service, residency training and research initiatives, Eastman Institute for Oral Health each year treats thousands of Rochester-area patients by providing a full range of general and specialized dentistry. Established in 1915, Eastman Institute is the only major post-doctoral dental education, research and clinical institution in the U.S. within an academic medical center.

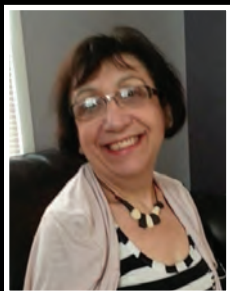
Headquartered in Melville, N.Y., Henry Schein is the world's largest provider of Business, Clinical, Technology, and Supply Chain solutions to enhance the efficiency of office-based dental, animal health, and medical practitioners. It has operations or affiliates in 34 countries and has 22,000 Team Schein Members. ♦

Valued employees with many years of service at Eastman have retired this year.

Visit Eastman's Word of Mouth blog on the website for their full interviews.

Sofya Bravve

Dental Assistant, 22 years



Most fulfilling part of the job?

The people. Staff and residents made me happy to work with all of them and continued till the day of my retirement. EDC is really special and unique place to work because I had the opportunity to learn a lot about dentistry and

communication all over the world. Diversity!

Dr. Mark J. Cohen

*(GenDen '78) Part Time Faculty,
General Dentistry, 25 years*



Residents have always appreciated that he is very approachable and knowledgeable, and skilled in all areas of general dentistry and other complex procedures. He is described as an innovative, creative and engaging teacher, challenging residents to think critically and independently.

SMILEmobile

55 years



The original SMILEmobile, the first ever in New York, which traveled throughout Rochester allowing thousands of city school students to receive much needed dental treatment, is very tired and decided to retire. Not to worry, there will be no lapse in service to the schools.

Lynda Pasco, RDH

15 years



I will always miss the close work friendships. It was always a joy to walk into Eastman and see the staff, some of them my past students. The professional and courteous staff was always going out of their way to help.

Lenora Colaruotolo, LMSW

Social Worker, 14 years



What will you miss the most?

The opportunity to work with wonderful colleagues who are generous with their knowledge and time and from whom I have learned so much.

Best advice for the person who replaces you?

Ralph Waldo Emerson is often credited for saying "Life is a journey, not a destination." My advice is to immerse yourself into the EIOH culture and enjoy the journey!



Richard Myers

Part Time Faculty, Orthodontics, 40 years

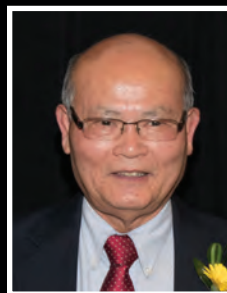


I most enjoyed the interaction with the residents, challenging them to evaluate their clinical treatment progress, make an informed decision as to the appropriate action, and then execute that decision effectively and efficiently.

Eastman is special because of the makeup of the faculty – all residents receive the most broadly based information from practitioners who are in the field every day and can provide input from a variety of viewpoints about every phase of the profession.

Dr. Chiataw Huang

(Pedo '76, MS '78), Associate Professor, Community Dentistry, 20 years



The most fulfilling aspect of my position at EIOH is passing my experiences on to the next generation. When I see youngsters finish their training and get accepted into the different institutions or bring their skills to various places around the whole world to serve the community, it

makes me feel so proud and satisfied.

Best advice for person who replaces you?

Keep in mind the original mission for this institution. Keep it up and pass it on.

WHY WE GIVE

EASTMAN
INSTITUTE FOR ORAL HEALTH

Dr. Bill Calnon (GPR '79)

Dr. Bill Calnon and his family donated \$25,000 to name a private operatory in the Specialty Care Clinic.

"The Calnon family is proud to support the expansion. Five of us have received amazing post-graduate training at EIOH over the years. The skills we learned have been instrumental in our careers. When you receive something good in life, it is appropriate to show appreciation. This donation is our way of saying "thank you" and it is our hope that it will assist the next generations of oral health providers to deliver care to a very vulnerable population." ♦



(l to r.) Dr. Chris Calnon (GPR '09), Dr. Jennifer Calnon (GPR '09), Mary Calnon, Dr. Bill Calnon (GPR '79), Dr. Lauren Vitkus (Ortho '16, MS '16), Dr. Tim Calnon (Ortho '15, MS '15)



Convocation

More than 70 Eastman Institute for Oral Health students and residents, representing 27 different countries, received their certificates for completing their advanced, specialty training in various programs.

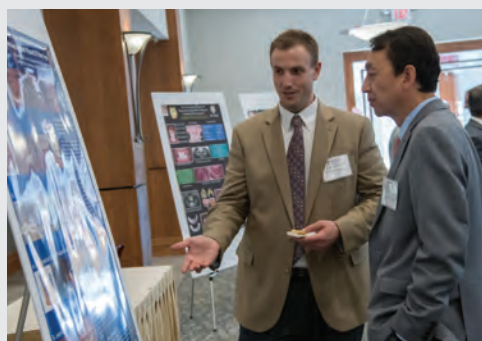
“Through your training, you became part of the bridge we’re building between medicine and dentistry, and a bridge to improve access for patients with unique, complex and special needs.

I hope you will continue the legacy of an Eastman Institute graduate, and welcome all patients in your care, in your offices, in whatever part of our world you will be in, and consistently provide access and excellent treatment – without compromise – to all people.”

~ Eli Eliav, DMD, PhD
 Director, Eastman Institute
 for Oral Health
 Vice Dean for Oral Health,
 School of Medicine and
 Dentistry, U of R ♦







This year's Oral Medicine, Handelman General Dentistry, and Brewer Prosthodontic Conferences experienced record attendance.

Featured speakers were Drs. William Scarfe and Sharon Elad for Oral Medicine, Drs. Stephen Chu and Hans-Peter Weber for Handelman, and Dr. Lyndon Cooper for Brewer. ♦



Dr. Gary Greenstein (Perio '81, MS '81) is receiving the American Academy of Periodontics highest honor - the Gold Medal Award. When he heard about this honor, Dr. Greenstein wrote to Dr. Jack Caton, chair, Periodontics Dept.: *"I thought of you immediately and wanted to say thanks (100x) for helping me achieve this great honor. Without the knowledge you shared with me and the training and imbuing me with the concept to make a contribution, this never would have happened... I think of you often with the greatest respect and admiration."*

Since the early 1980s, Dr. Greenstein's robust publishing portfolio has provided comprehensive insight to the intricacies of patient care—from implant dentistry to local drug delivery. He is credited with more than 160 publications and is well-regarded not only for his ability to analyze the literature but for his influence on day-to-day practice.



Dr. Liz Barbi (Ortho '15, MS '15) has joined the practice of Dr. Rod Littlejohn, where she was a patient in middle school.



Carletta Carter, RDA, PhD, has been named administrator of the Division of Community Dentistry & Oral Disease Prevention.



Dr. Michael Yunker has been appointed EIOH assistant chief quality officer in addition to his current role as assistant program director for General Dentistry.

WHY I GIVE

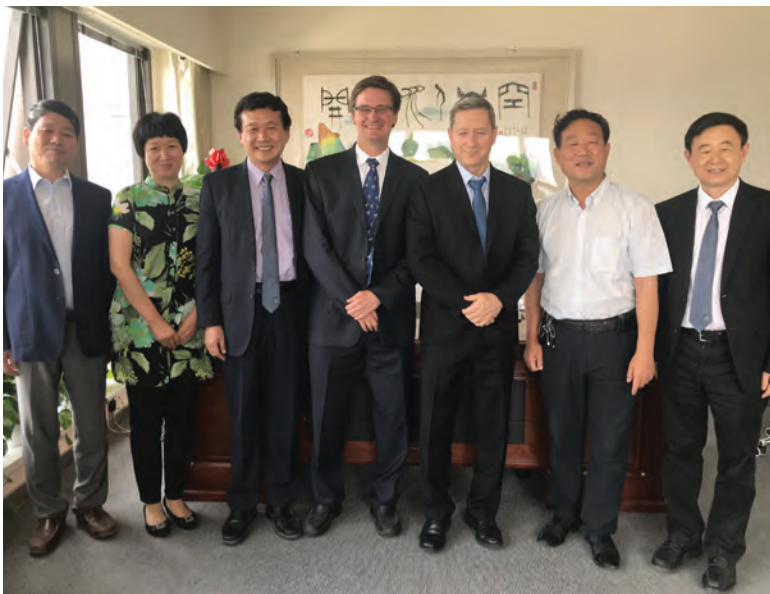
EASTMAN
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Bruce Bates, Eastman Dental Foundation Board Member for 35 years

I want to leave my legacy by making a contribution to future generations.

Mr. Bates donated \$25,000 to name a private operatory in the Specialty Care Clinic. ♦



Drs. Eliav, Ren and Malmström visited Shanghai, Henan and Inner Mongolia in China recently to lecture and provide hands-on training to students and faculty, and dentists. A variety of topics were covered, including chronic pain, treatment planning, dental implants, new composite techniques and materials, and publishing research.



Holly Barone, RDH, MHA, was promoted to chief operating officer. As part of this role, Holly will provide leadership and oversight of Eastman's clinical and facilities operations, develop long-range strategic plans, and implement its healthcare plan, program and facility expansion.



Dr. Cynthia Wong (Pedo '13, MS '15) has been named the residency program director for Pediatric Dentistry.

Dr. Stephanie Morgan (Ortho '12), president of Perennial Smiles Orthodontic Specialists, was featured in About magazine as a successful professional under age 40 in Stark County, Ohio.



Dr. Maricelle Abayon (GenDen '09, MS '09, GPR '10), was elected chair of the American Dental Education Association Section on Graduate and Postgraduate Education. The group addresses issues that are universal to all graduate programs in the U.S. and works with other ADEA sections to develop new programming.

Dr. Mario Romero (GenDen '13) was promoted to associate professor and AEGD Program Director at the Dental College of Georgia. "I believe that the mentorship received during my two years at Eastman prepared me for this new challenge in my academic career," he said.



Dr. Antonia Kolokythas was accepted as a member of the 2018-2019 class of Fellows in the Hedwig van Ameringen Executive Leadership in Academic Medicine Program. The program is a year-long part-time fellowship for women faculty in schools of medicine, dentistry, public health and pharmacy.

Dr. Christopher A. Roberts (GenDen '84, Ortho '87) has been elected the secretary-treasurer of the American Association of Orthodontists.



The American Dental Association Board of Trustees named **Dr. William R. Calnon** (GPR '79) the 2018 Distinguished Service Award recipient. "Dr. Calnon has had a long and celebrated dental career, having served as president of the ADA and now as president of the ADA Foundation," said Dr. Joseph P. Crowley, ADA president. "This award is the highest honor conferred by the ADA Board of Trustees, and I am proud that he is being recognized for his countless contributions to dentistry in this way."



During the **5th annual KMR Memorial Golf Tournament**, friends and family of the late Kory Rauscher raised \$8,750 to benefit families with babies born with cleft lip and palate. (l to r.) Valerie and Neil Folsbee with their son Sawyer, who was treated with the NAM by Dr. Erin Shope and lip and palate surgeries by Dr. Clinton Morrison.



The entire **Merrill family**, of Corning, NY, came to Eastman's Orthodontic Dept. for treatment in pairs. The two older children came years ago, the two teens just finished, and now the parents are current patients.



The Class of 1993 celebrated their 25th anniversary at the recent American Association of Orthodontists meeting. (l to r) Drs. Robert Girgis, Mark Hatala, Tim Agapas, Cristina Incorvati, Dave Proietti and Pedro Santiago



Eastman Dental 's Carletta Carter participated in **Project TIPS** (trust, information, programs, services) alongside Dr. Mark Gestring, director of Adult Trauma at the Strong Regional Trauma Center, throughout the summer in various city neighborhoods.



Dr. Virginia Yanez Fontenla (GenDen '16, Pedro '18) and **Dr. Alejandro Sanchez Lara** (GenDen '15, Prosthodontics '18) were married August 24, 2018 in Santiago de Compostela, Spain.



Dr. Tim Calnon (Orthodontics '15, MS '15) and **Dr. Lauren Vitkus** (Orthodontics '16, MS '16) were married June 9, 2018 in Skaneateles, NY.



Dr. Maureen Wood (Orthodontics '12) and Blake Petty were married October 7, 2017



Dr. Vincent Santucci (Orthodontics '19) married Stephanie Howard September 23, 2017



Dr. Alberto Tostado (Ortho '18) and Dr. Ana Tijerina were married September 1, 2017

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Dr. Marni Phillips (Ortho '14) and her husband Steve welcomed baby Paxton Hunter on June 27, 2018



Dr. Moataz Elmahdy (Ortho '17) and his wife Stephanie welcomed baby Nora on July 21, 2018.



Dr. Patrick Scannell ('18) and his wife Camille welcomed baby Evelyn Rose on Nov. 9, 2017.

babies

in sympathy

Dr. Sangiem Limbasuta (MS '61) passed away April 12, 2018

Dr. Robert Oster, General Dentistry faculty, passed away April 11, 2018

Dr. Matthew Palermo (Prosthodontics '09) passed away March 14, 2018

Dr. Paul Sicola (Pediatrics '74) passed away March 12, 2018

Dr. Jay Pivor (BA '76, GenDen '81) passed away August 25, 2017

Dr. Jim Glauser (Ortho '95), passed away on August 25, 2017, from complications of a ruptured brain aneurysm.

A microscopic view of cells, likely leukocytes, with prominent nuclei and granules, rendered in a 3D style with a purple and pink color palette.

2018

Publications

Abduljabbar T, Akram Z, Vohra F, Warnakulasuriya S, Javed F. Assessment of interleukin-1beta, interleukin-6, and tumor necrosis factor-alpha levels in the peri-implant sulcular fluid among waterpipe (narghile) smokers and never-smokers with peri-implantitis. *Clin Implant Dent Relat Res*. 2018

Abduljabbar T, Al-Hamoudi N, Al-Sowygh ZH, Alajmi M, Javed F, Vohra F. Comparison of peri-implant clinical and radiographic status around short (6 mm in length) dental implants placed in cigarette-smokers and never-smokers: Six-year follow-up results. *Clin Implant Dent Relat Res*.

Akram Z, Abduljabbar T, Hosain M, et al. Comparison of periodontal inflammatory parameters among habitual gutka-chewers and naswar-dippers: A split-mouth retrospective clinical study. *Acta Odontol Scand*. 2018

Akram Z, Javed F, Hosein M, et al. Photodynamic therapy in the treatment of symptomatic oral lichen planus: A systematic review. *Photodermatol Photoimmunol Photomed*. 2018

Akram Z, Vohra F, Bukhari IA, Sheikh SA, Javed F. Clinical and radiographic peri-implant parameters and proinflammatory cytokine levels among cigarette smokers, smokeless tobacco users, and nontobacco users. *Clin Implant Dent Relat Res*. 2018

Akram Z, Vohra F, Javed F. Efficacy of statin delivery as an adjunct to scaling and root planing in the treatment of chronic periodontitis: A meta-analysis. *J Invest Clin Dent*. 2018

Akram Z, Vohra F, Javed F. Low-level laser therapy as an adjunct to connective tissue graft procedure in the treatment of gingival recession defects: A systematic review and meta-analysis. *J Esthet Restor Dent*. 2018

Akram Z, Vohra F, Javed F. Locally delivered metformin as adjunct to scaling and root planing in the treatment of periodontal defects: A systematic review and meta-analysis. *J Periodontal Res*. 2018

Akram Z, Al-Kheraif AA, Kellesarian SV, Vohra F, Javed F. Comparison of oral *Candida* carriage in waterpipe smokers, cigarette smokers, and non-smokers. *J Oral Sci*. 2018

Al-Allaq T, Feng C, Saunders RH. Anterior tooth wear and quality of life in a nursing home population. *Spec Care Dentist*. 2018

Alasqah M, Mokeem S, Alrahlah A, Al-Hamoudi N, Abduljabbar T, Akram Z, Vohra F, Javed F. Periodontal parameters in prediabetes, type 2 diabetes mellitus, and non-diabetic patients. *Braz Oral Res*. 2018

Alazzawi MMJ, Husein A, Alam MK, et al. Effect of low level laser and low intensity pulsed ultrasound therapy on bone remodeling during orthodontic tooth movement in rats. *Prog Orthod*. 2018

Al-Delayme RMA, Radhi H, Farag A, et al. Photodynamic therapy as a treatment option for oral cancer and dysplasia. *Annals of Medical and Health Sciences Research*. 2018

Al-Hamoudi N, Abduljabbar T, Mirza S, et al. Non-surgical periodontal therapy reduces salivary adipocytokines in chronic periodontitis patients with and without obesity. *J Investig Clin Dent*. 2018

Al-Sowygh ZH, Aldamkh MK, Binmahfooz AM, Al-Aali KA, Akram Z, Qutub OA, Javed F, Abduljabbar T. Assessment of matrix metalloproteinase-8 and -9 levels in the peri-implant sulcular fluid among waterpipe (narghile) smokers and never-smokers with peri-implantitis. *Inhal Toxicol*. 2018

Al-Sowygh ZH, Al-Kheraif AA, Akram Z, Vohra F, Javed F. Peri-implant soft tissue inflammatory parameters and crestal bone loss among waterpipe (narghile) smokers and never-smokers with and without type 2 diabetes mellitus. *J Periodontol*. 2018

Aviles-Reyes A, Freires IA, Kajfasz JK, et al. Whole genome sequence and phenotypic characterization of a cbm(+) serotype e strain of streptococcus mutans. *Molecular Oral Microbiology*. 2018

Baker JL, Lindsay EL, Faustoferri RC, et al. Characterization of the trehalose utilization operon in streptococcus mutans reveals that the TreR transcriptional regulator is involved in stress response pathways and toxin production. *J Bacteriol*. 2018

Binshabaib M, ALHarthi SS, Salehpoor D, Michelogiannakis D, Javed F. Contribution of herpesviruses in the progression of periodontal and peri-implant diseases in systemically healthy individuals. *Rev Med Virol*. 2018

Bowen WH, Burne RA, Wu H, Koo H. Oral biofilms: Pathogens, matrix, and polymicrobial interactions in microenvironments. *Trends Microbiol*. 2018

Caito SW, Jackson BP, Punshon T, et al. Editor's highlight: Variation in methylmercury metabolism and elimination status in humans following fish consumption. *Toxicol Sci*. 2018

Caito SW, Jackson BP, Punshon T, et al. Variation in methylmercury metabolism and elimination status in humans following fish consumption. *Toxicological Sciences*. 2018

Caton JG, Armitage G, Berglundh T, et al. A new classification scheme for periodontal and peri-implant diseases and conditions - introduction and key changes from the 1999 classification. *J Periodontol*. 2018

Caton J, Armitage G, Berglundh T, et al. A new classification scheme for periodontal and peri-implant diseases and conditions - introduction and key changes from the 1999 classification. *J Clin Periodontol*. 2018

Cheng CW, Chien CH, Chen CJ, Papaspyridakos P. Clinical results and technical complications of posterior implant-supported modified monolithic zirconia single crowns and short-span fixed dental prostheses: A 2-year pilot study. *J Prosthodont*. 2018

Crowe W, Allsopp PJ, Nyland JF, et al. Inflammatory response following in vitro exposure to methylmercury with and without n-3 long chain polyunsaturated fatty acids in peripheral blood mononuclear cells from systemic lupus erythematosus patients compared to healthy controls. *Toxicol in Vitro*. 2018

Elad S, Arany P, Bensadoun RJ, Epstein JB, Barasch A, Raber-Durlacher J. Photobiomodulation therapy in the management of oral mucositis: Search for the optimal clinical treatment parameters. *Support Care Cancer*. 2018

Elad S, Zinchuk K, Li S, Cutler C, Liesveld J, Treister NS. Economic and practical considerations in the treatment of oral mucosal chronic graft-versus-host disease. *Biol Blood Marrow Transplant*. 2018

Ercoli C, Caton JG. Dental prostheses and tooth-related factors. *J Clin Periodontol*. 2018

Ercoli C, Caton JG. Dental prostheses and tooth-related factors. *J Periodontol*. 2018

Eshghipour B, Tofighi H, Nehal F, Vohra F, Javed F, Akram Z. Effect of scaling and root planing on gingival crevicular fluid cytokine/chemokine levels in smokers with chronic periodontitis: A systematic review. *J Investig Clin Dent*. 2018

Fan J, Caton JG. Occlusal trauma and excessive occlusal forces: Narrative review, case definitions, and diagnostic considerations. *J Periodontol*. 2018

Fan J, Caton JG. Occlusal trauma and excessive occlusal forces: Narrative review, case definitions, and diagnostic considerations. *J Clin Periodontol*. 2018

Ganguly T, Kajfasz JK, Miller JH, et al. Disruption of a novel iron transport system reverses oxidative stress phenotypes of a dpr mutant strain of streptococcus mutans. *J Bacteriol*. 2018

Gupta B, Acharya A, Singh S, et al. Evaluation of jawbone morphology and bone density indices in panoramic radiographs of selective serotoninre uptake inhibitor users: A preliminary study. *Dentomaxillofac Radiol*. 2018

Heft MW, Litaker MS, Kopycka-Kedzierawski DT, et al. Patient-centered dentinal hypersensitivity treatment outcomes: Results from the national dental PBRN. *JDR Clin Trans Res*. 2018

Herzog CR, Berzins DW, DenBesten P, et al. Oral sciences PhD program enrollment, graduates, and placement: 1994 to 2016. *J Dent Res*. 2018

Huang L, Cory-Slechta DA, Cox C, et al. Analysis of nonlinear associations between prenatal methylmercury exposure from fish consumption and neurodevelopmental outcomes in the seychelles main cohort at 17 years. *Stochastic Environmental Research and Risk Assessment*. 2018

Huang X, Browngardt CM, Jiang M, Ahn SJ, Burne RA, Nascimento MM. Diversity in antagonistic interactions between commensal oral streptococci and streptococcus mutans. *Caries Res*. 2018

Javed F, Akram Z, Barillas AP, et al. Outcome of orthodontic palatal plate therapy for orofacial dysfunction in children with down syndrome: A systematic review. *Orthod Craniofac Res*. 2018

Javed F, Kellesarian SV, Abduljabbar T, et al. Influence of involuntary cigarette smoke inhalation on osseointegration: A systematic review and meta-analysis of preclinical studies. *Int J Oral Maxillofac Surg*. 2018

Javed F, Salehpoor D, Al-Dhafeeri T, et al. Is adjunctive photodynamic therapy more effective than scaling and root planing alone in the treatment of periodontal disease in hyperglycemic patients? A systematic review. *Photodiagnosis Photodyn Ther*. 2018

Jepsen S, Caton JG, Albandar JM, et al. Periodontal manifestations of systemic diseases and developmental and acquired conditions: Consensus report of workgroup 3 of the 2017 world workshop on the classification of periodontal and peri-implant diseases and conditions. *J Clin Periodontol*. 2018

Jepsen S, Caton JG, Albandar JM, et al. Periodontal manifestations of systemic diseases and developmental and acquired conditions: Consensus report of workgroup 3 of the 2017 world workshop on the classification of periodontal and peri-implant diseases and conditions. *J Periodontol*. 2018

Kalladka M, Ananthan S, Eliav E, Nasri-Heir C, Khan J, Heir G. Orbital pseudotumor presenting as a temporomandibular disorder: A case report and review of literature. *J Am Dent Assoc*. 2018

Kellesarian SV. Foreign-trained dentists in the United States: Challenges and opportunities. *Dent J (Basel)*. 2018

Kellesarian SV. Flipping the dental anatomy classroom. *Dent J (Basel)*. 2018

Kellesarian SV, Javed F, Romanos GE. Osteomyelitis arising around osseointegrated dental implants: A systematic review. *Implant Dent*. 2018

Kellesarian SV, Malignaggi VR, Feng C, Javed F. Association between obstructive sleep apnea and erectile dysfunction: A systematic review and meta-analysis. *Int J Impot Res*. 2018

Kellesarian SV, Malignaggi VR, Kellesarian TV, Bashir Ahmed H, Javed F. Does incorporating collagen and chondroitin sulfate matrix in implant surfaces enhance osseointegration? A systematic review and meta-analysis. *Int J Oral Maxillofac Surg*. 2018

Kellesarian SV, Ros Malignaggi V, Aldosary KM, Javed F. Laser-assisted removal of all ceramic fixed dental prostheses: A comprehensive review. *J Esthet Restor Dent*. 2018

Khan J, Korczeniewska O, Benoliel R, Kalladka M, Eliav E, Nasri-Heir C. Age and gender differences in mechanically induced intraoral temporal summation and conditioned pain modulation in healthy subjects. *Oral Surg Oral Med Oral Pathol Oral Radiol*. 2018



Khan J, Noboru N, Imamura Y, Eliav E. Effect of pregabalin and diclofenac on tactile allodynia, mechanical hyperalgesia and pro inflammatory cytokine levels (IL-6, IL-1beta) induced by chronic constriction injury of the infraorbital nerve in rats. *Cytokine*. 2018

Korczyńska OA, Husain S, Khan J, Eliav E, Soteropoulos P, Benoliel R. Differential gene expression in trigeminal ganglia of male and female rats following chronic constriction of the infraorbital nerve. *Eur J Pain*. 2018

Luis Calvo-Guirado J, Lopez-Lopez PJ, Perez-Albacete Martinez C, et al. Peri-implant bone loss clinical and radiographic evaluation around rough neck and microthread implants: A 5-year study. *Clin Oral Implants Res*. 2018

Makhija SK, Bader JD, Shugars DA, et al. Influence of 2 caries-detecting devices on clinical decision making and lesion depth for suspicious occlusal lesions: A randomized trial from the national dental practice-based research network. *J Am Dent Assoc*. 2018

Makhija SK, Robinson ME, Bader JD, et al. Dentists' decision strategies for suspicious occlusal caries lesions in a national dental PBRN study. *J Dent*. 2018

Malcolm DW, Varghese JJ, Sorrells JE, Ovitt CE, Benoit DSW. The effects of biological fluids on colloidal stability and siRNA delivery of a pH-responsive micellar nanoparticle delivery system. *ACS Nano*. 2018

Mao YX, Cai WJ, Sun XY, et al. RAGE-dependent mitochondria pathway: A novel target of silibinin against apoptosis of osteoblastic cells induced by advanced glycation end products. *Cell Death Dis*. 2018

Mawardi H, Hashmi SK, Elad S, Aljurf M, Treister N. Chronic graft-versus-host disease: Current management paradigm and future perspectives. *Oral Dis*. 2018

McCauley JL, Leite RS, Gordan VV, et al. Opioid prescribing and risk mitigation implementation in the management of acute pain: Results from the national dental practice-based research network. *J Am Dent Assoc*. 2018

2018

Publications

Mehmood A, Abduljabbar T, Al-Hamoudi N, Gholamiazizi E, Kellesarian SV, Vohra F, Javed F. Self-perceived oral symptoms and periodontal status among young intravenous heroin addicts: A cross-sectional case-control study. *J Periodontol*. 2018

Michelogiannakis D, Rossouw PE, Al-Shammery D, et al. Influence of nicotine on orthodontic tooth movement: A systematic review of experimental studies in rats. *Arch Oral Biol*. 2018

Michelogiannakis D, Vastardis H, Melakopoulos I, Papathanasopoulou C, Tosios KI. The challenge of managing patients with generalized short root anomaly: A case report. *Quintessence Int* 2018

Michelogiannakis D, Vorrasi JS, Kotsailidi EA, Rossouw PE, Interdisciplinary Management of a Class III, Anterior Open Bite Malocclusion in a Patient with Cerebral Palsy, *Journal of Oral and Maxillofacial Surgery* 2018

Michelogiannakis D, Rossouw PE, Fishman LS, Feng C. A cephalometric comparison of treatment effects and predictors of chin prominence in class II division 1 and 2 malocclusions with forsus fatigue-resistant fixed functional appliance. *Journal of the World Federation of Orthodontists*. 2018

Mokeem SA, Abduljabbar T, Al-Kheraif AA, et al. Oral candida carriage among cigarette- and waterpipe-smokers, and electronic-cigarette users. *Oral Dis*. 2018

Mokeem SA, Alasqah MN, Michelogiannakis D, Al-Kheraif AA, Romanos GE, Javed F. Clinical and radiographic periodontal status and whole salivary cotinine, IL-1beta and IL-6 levels in cigarette- and waterpipe-smokers and E-cig users. *Environ Toxicol Pharmacol*. 2018

Nahlieli O. Extracorporeal lithotripsy. *Atlas Oral Maxillofac Surg Clin North Am*. 2018

Newman MR, Russell SG, Schmitt CS, et al. Multivalent presentation of peptide targeting groups alters polymer biodistribution to target tissues. *Biomacromolecules*. 2018

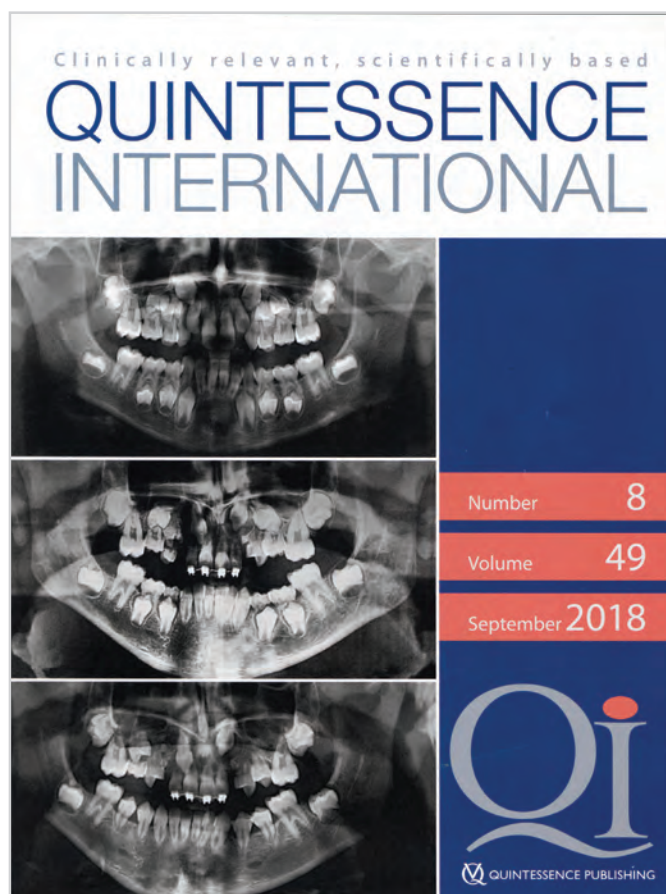
Ngo CTT, Fishman LS, Rossouw PE, Wang H, Said O. Correlation between panoramic radiography and cone-beam computed tomography in assessing maxillary impacted canines. *Angle Orthod* 2018

Papaspyridakos P, Barizan Bordin T, Kim YJ, et al. Implant survival rates and biologic complications with implant-supported fixed complete dental prostheses: A retrospective study with up to 12-year follow-up. *Clin Oral Implants Res*. 2018

Quek SYP, Kalladka M, Kanti V, Subramanian G. A new adjunctive tool to aid in the diagnosis of myogenous temporomandibular disorder pain originating from the masseter and temporalis muscles: Twin-block technique. *J Indian Prosthodont Soc*. 2018

Romanos GE, Sacks D, Montanaro N, Delgado-Ruiz R, Calvo-Guirado JL, Javed F. Effect of initiators on thermal changes in soft tissues using a diode laser. *Photomed Laser Surg*. 2018

Runyan CM, Uribe-Rivera A, Tork S, et al. Management of airway obstruction in infants with pierre robin sequence. *Plast Reconstr Surg Glob Open*. 2018



Images from EIOH Orthodontics Resident Dr. Dimitris Michelogiannakis's research about managing patients with generalized short root anomaly was featured on the cover of *Quintessence International*.

Salazar CR, Laniado N, Mossavar-Rahmani Y, et al. Better-quality diet is associated with lower odds of severe periodontitis in US Hispanics/Latinos. *J Clin Periodontol*. 2018

Saputo S, Faustoferri RC, Quivey RG, Jr. Vitamin D compounds are bactericidal against streptococcus mutans and target the bacitracin-associated efflux system. *Antimicrob Agents Chemother*. 2018

Saputo S, Faustoferri RC, Quivey RG, Jr. A drug repositioning approach reveals that streptococcus mutans is susceptible to a diverse range of established antimicrobials and nonantibiotics. *Antimicrob Agents Chemother*. 2018

Shen C, Li L, Zhao K, Bai L, Wang A, Shu X, Xiao Y, Zhang J, Zhang K, Hui T, Chen W, Zhang B, Hsu W, Xiong WC, Mei L. Motoneuron Wnts regulate neuromuscular junction development. *eLife*. 2018

Varghese JJ, Schmale IL, Hansen ME, Newlands SD, Benoit DSW, Ovitt CE. Murine salivary functional assessment via pilocarpine stimulation following fractionated radiation. *J Vis Exp*. 2018

Varghese JJ, Schmale IL, Wang Y, et al. Retroductal nanoparticle injection to the murine submandibular gland. *J Vis Exp*. 2018

Varghese JJ, Schmale IL, Mickelsen D, Hansen ME, Newlands SD, Benoit DSW, Korshunov VA, Ovitt CE. Localized Delivery of Amifostine Enhances Salivary Gland Radioprotection. *J Dent Res*. 2018

Vohra F, Akram Z, Bukhari IA, Sheikh SA, Javed F. Short-term effects of adjunctive antimicrobial photodynamic therapy in obese patients with chronic periodontitis: A randomized controlled clinical trial. *Photodiagnosis Photodyn Ther*. 2018

Vohra F, Alkhudhairy F, Al-Kheraif AA, Akram Z, Javed F. Peri-implant parameters and C-reactive protein levels among patients with different obesity levels. *Clin Implant Dent Relat Res*. 2018

Vorrasi J, Calvi R, Lv M, Hammond R. What factors necessitate removal of retained ballistic fragments in the head and neck? *J Oral Maxillofac Surg*. 2018

Wen ZT, Scott-Anne K, Liao S, et al. Deficiency of BrpA in streptococcus mutans reduces virulence in rat caries model. *Mol Oral Microbiol*. 2018

Weng P, Aure MH, Maruyama T, Ovitt CE. Limited regeneration of adult salivary glands after severe injury involves cellular plasticity. *Cell Reports*. 2018

Xiao J, Grier A, Faustoferri RC, et al. Association between oral candida and bacteriome in children with severe ECC. *J Dent Res*. 2018

Xiao J, Huang X, Alkhers N, et al. Candida albicans and early childhood caries: A systematic review and meta-analysis. *Caries Res*. 2018

Young A, Kalladka M, Viswanath A, Zusman T, Khan J. Consomic rats parental strains differ in sensory perception, pain developed following nerve injury and in IL-1 beta and IL-6 levels. *Pathophysiology*. 2018

Yuen H, Rossouw PE, Wolford LM, Wang H. Pharyngeal airway space changes after condylar replacement and mandibular advancement surgery. *J Oral Maxillofac Surg*. 2018

Zembiec-Wheeler B, Lott-Limbach A, Malmström H, Elad S. Oral lichenoid reactions may possibly be associated with abatacept: A case report and literature update. *Oral Surg Oral Med Oral Pathol Oral Radiol*. 2018.

Zhu WQ, Ming PP, Qiu J, et al. Effect of titanium ions on the Hippo/YAP signaling pathway in regulating biological behaviors of MC3T3-E1 osteoblasts. *J Appl Toxicol*. 2018

2017 Publications

Castillo Pedraza MC, Novais TF, Faustoferri RC, et al. Extracellular DNA and lipoteichoic acids interact with exopolysaccharides in the extracellular matrix of streptococcus mutans biofilms. *Biofouling*. 2017

Gupta B, Singh S, Tallents RH, Rossouw E. Effects of bisphosphonates on orthodontic treatment and the TMJ: A systematic review. *J Clin Orthod*. 2017

Huang X, Deng M, Liu M, et al. Comparison of composition and anticaries effect of galla chinensis extracts with different isolation methods. *Open Dent J*. 2017

Javed F, ALHarthi SS, BinShabaib MS, Gajendra S, Romanos GE, Rahman I. Toxicological impact of waterpipe smoking and flavorings in the oral cavity and respiratory system. *Inhal Toxicol*. 2017

Kellesarian SV, Malignaggi VR, de Freitas P, Ahmed HB, Javed F. Association between prenatal maternal cigarette smoking and early childhood caries. A systematic review. *J Clin Exp Dent*. 2017

Korczeniewska OA, Khan J, Tao Y, Eliav E, Benoliel R. Effects of sex and stress on trigeminal neuropathic pain-like behavior in rats. *J Oral Facial Pain Headache*. 2017

Laird E, Thurston SW, van Wijngaarden E, et al. Maternal vitamin D status and the relationship with neonatal anthropometric and childhood neurodevelopmental outcomes: Results from the seychelles child development nutrition study. *Nutrients*. 2017

Makhija SK, Shugars DA, Gilbert GH, et al. Surface characteristics and lesion depth and activity of suspicious occlusal carious lesions: Findings from the national dental practice-based research network. *J Am Dent Assoc*. 2017

Michelogiannakis D, Makou M, Madianos PN, Rossouw PE. Orthodontic tooth movement in relation to angular bony defects. *Australasian Orthodontic Journal* 2017

Myers RB. Bio-progressive therapy. *J Clin Orthod*. 2017

Poggio CE, Ercoli C, Rispoli L, Maiorana C, Esposito M. Metal-free materials for fixed prosthodontic restorations. *Cochrane Database Syst Rev*. 2017

Rivero JA, Shamji O, Kolokythas A. Osteoradionecrosis: A review of pathophysiology, prevention and pharmacologic management using pentoxifylline, alpha-tocopherol, and clodronate. *Oral Surg Oral Med Oral Pathol Oral Radiol*. 2017

Vorrasi JS, Kolokythas A. Controversies in traditional oral and maxillofacial reconstruction. *Oral Maxillofac Surg Clin North Am*. 2017

Wiens JP, Koka S, Graser G, White SN, Marinello CP, Curtis DA. Academy of prosthodontics centennial: The emergence and development of prosthodontics as a specialty. *J Prosthet Dent*. 2017

Yeates AJ, Thurston SW, Li H, et al. PUFA status and methylmercury exposure are not associated with leukocyte telomere length in mothers or their children in the Seychelles child development study. *J Nutr*. 2017

Zhao X, Zanetti F, Majeed S, et al. Effects of cigarette smoking on color stability of dental resin composites. *Am J Dent*. 2017.

Book Chapter

Yarom, N. Sroussi, H, Elad, S. Pain in mucosal diseases and cancer. In *Contemporary Oral Medicine*. Edited by Camile, S. Farah, CS. Balasubramaniam, R. and McCullough, MJ. Springer International Publishing AG Switzerland. 2017.

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Dr. Georgios Romanos, Stony Brook University
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March 8-9, 2019

Esthetic Conference – Esthetic Posterior, Anterior
Composite
Dr. Marcos Vargas, University of Iowa
Dr. Bob Margeas, University of Iowa
Rochester, NY

March 22, 2019

Oral Medicine Conference
Robert A. Convissar, DDS
New York Presbyterian Hospital of Queens, NYC
Praveen R. Arany, DDS, PhD
University at Buffalo
Sharon Elad, DMD MSc
Eastman Institute for Oral Health
Rochester, NY

April 12-13, 2019

Esthetic Conference – Porcelain Veneers
Dr. Nasser Barghi, University of Texas
Rochester, NY

May 10, 2019

Handelman General Dentistry Conference
Dr. Joseph Kan, Loma Linda University
Rochester, NY

May 23-26, 2019

EIOH Alumni and Friends Reception
American Academy of Pediatric Dentistry
Chicago, IL

June 7-8, 2019

Teledentistry Conference
American Teledentistry Assoc.
& Eastman Institute for Oral Health
Rochester, NY



American
TeleDentistry
Association

June 19–22, 2019

EIOH Alumni Friends Reception
International Association for Dental Research
Vancouver, BC, Canada

June 19, 2019

Allen A. Brewer Prosthodontic Conference
Dr. Dean Morton, Indiana University
Rochester, NY