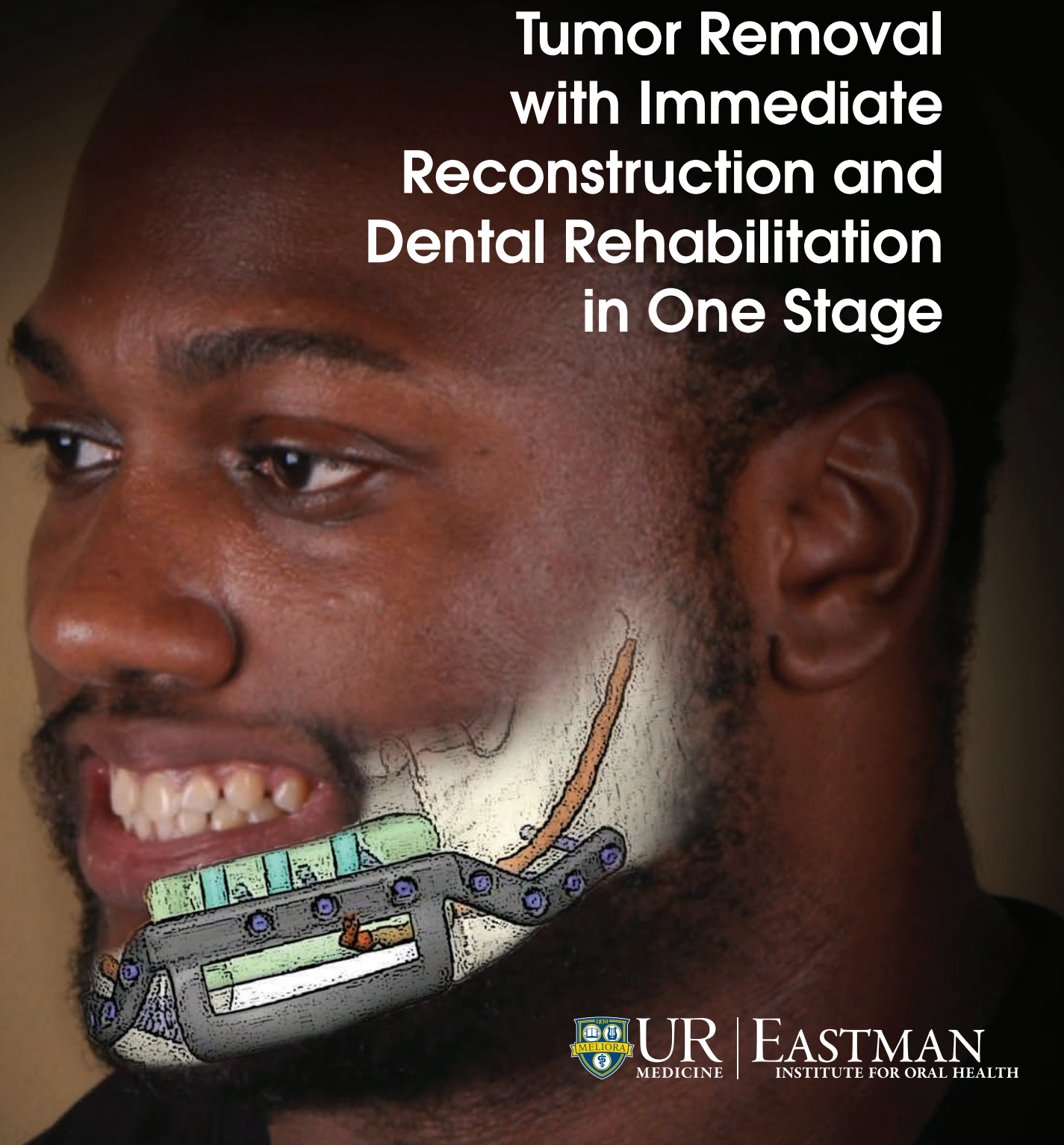


MOMENTUM

2019/2020

A first for URM and Upstate New York

Tumor Removal with Immediate Reconstruction and Dental Rehabilitation in One Stage



UR
MEDICINE

EASTMAN
INSTITUTE FOR ORAL HEALTH



Eli Eliav, DMD, MSc, PhD
Professor & Director, EIOH
Vice Dean for Oral Health, School of
Medicine & Dentistry
Vice President for Oral Health,
University of Rochester Medical Center

Thanks to the teamwork of our dedicated faculty, staff and alumni, we've completed many important initiatives and started new ones.

We continue to lead the way in interdisciplinary treatment by engaging our colleagues throughout the Medical Center. The exceptional team led by Dr. Antonia Kolokythas and includes Plastic Surgeon Dr. Gui Christiano, and Periodontist and Prosthodontist Dr. Carlo Ercoli conducted a patient's tumor removal and full reconstruction in one procedure. That's a first for the UR Medical Center and Upstate New York. And, residents are involved every step of the way learning the importance and value of the interdisciplinary approach.

After years of planning, we unveiled our new Specialty Care clinic, a greatly needed service in our region. This new clinic, led by Dr. Wayne Lipschitz, complements the oral health services we provide in the hospital and at the Complex Care Center. Patients with a wide range of medically complex conditions and special needs can

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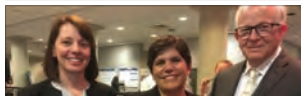
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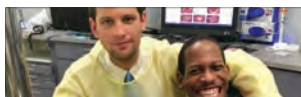
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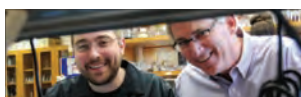
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Dr. Quivey 30

seek quality comprehensive care in one of these clinics. Thanks to all our donors who made the new clinic and all the other renovations possible to improve and enhance patient treatment and the educational experience.

We were delighted to host the first national Teledentistry Conference, and a pre-conference session of the American Association of Developmental Medicine and Dentistry's Once Voice annual conference. The first ever Eastman International Alliance Grand Rounds took place in real time with our sister institutions. And you'll read about several other new initiatives in this issue, too.

We are especially proud of our recent CODA visit, with absolutely no reporting requirements. This would never have happened without the outstanding team of faculty who are consistently diligent about quality and compliance.

We established the new Clinical and Translational Research Core, and named Dr. Dorota Kopycka-Kedzierawski director. Other EIOH research endeavors are stronger than ever, placing us ninth in the top 10 NIDCR rankings.

Our consistent top NIDCR ranking is due in large part to the work of Dr. Rob Quivey, who announced he's stepping down as Center for Oral Biology director. We're grateful for his years of leadership and look forward to a continued working relationship with him.

A simple thank you doesn't capture the gratitude for those retiring this year. We're very grateful for their role as a valued part of the Eastman legacy. Congratulations to all the faculty who have earned promotions. We continue to build the next generation of leaders and I couldn't be more proud of the remarkable, hard working team we have throughout EIOH.

We look forward to another great year of increased collaborations to better serve our patients, break down barriers to care, and advance our research and education programs to a new level.




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In a first-of-its-kind for the University of Rochester Medical Center and Upstate New York, experts from four disciplines worked together to perform in one day a procedure that previously would have taken three separate procedures over several months to a year.

First, Oral and Maxillofacial Surgeon Dr. Antonia Kolokythas, removed a five centimeter section of the patient's jaw where a fast-growing tumor was discovered. At the same time, Plastic Surgeon Dr. Gui Christiano worked on the patient's right leg, harvesting a portion of the fibula bone and its feeding vessels. This segment of fibula bone was secured with a titanium plate to the residual jaw to replace the portion removed that contained the tumor. The blood vessels feeding the transferred bone were connected to vessels in the neck using a microscope, through a small incision in the patient's neck.

Then, Dr. Kolokythas and Dr. Carlo Ercoli, a periodontist and prosthodontist, placed implants into the fibula bone. Dr. Ercoli placed a dental prosthesis over the implants to replace the patient's teeth that were removed with the jaw.

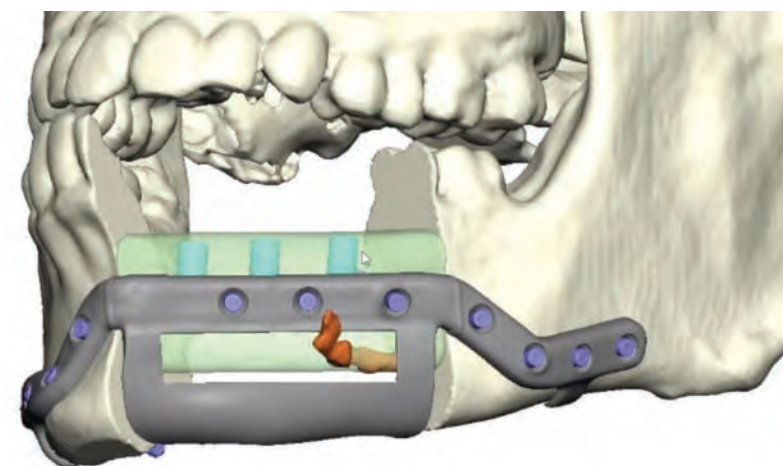
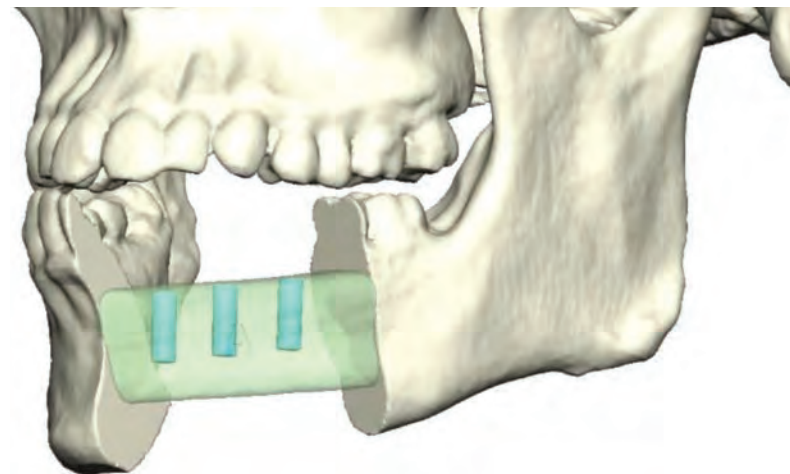
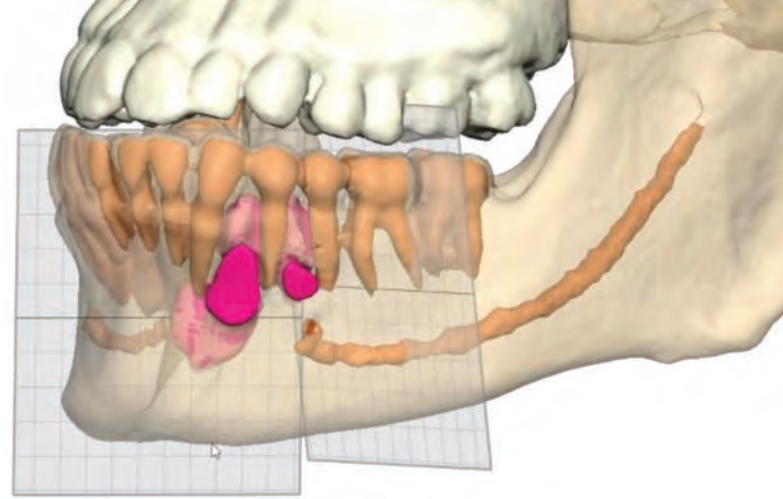
“Previously, patients who have undergone this in separate surgeries would struggle with eating, speaking and a changed facial appearance for months until new bone was placed,” explained Dr. Kolokythas, chair, Oral and Maxillofacial Surgery at UR Medicine's Eastman Institute for Oral Health. **“Then, after implants are placed, it normally would take another three to four months of healing before placing permanent crowns.”**

The patient—28-year old Michael Smith—told his dentist at Eastman Dental, part of UPMC, he was having pain in the lower left jaw area. After conducting a clinical exam and reviewing x-rays, the dentist knew there was something suspicious.

"There was thinning of the jaw bone and replacement of the bone architecture and structure by a pathologic process," explained Dr. Sergio Kellesarian. "We started suspecting that the condition was most likely an odontogenic tumor."

A panorex X-ray confirmed lesions were only on the one side, and a thin-cut CT scan was ordered to gain a better view of the lesions. "After interpreting the results," Dr. Kellesarian said, "we knew the condition needed immediate evaluation by a higher level of care."

Michael was promptly referred to Dr. Kolokythas. A biopsy confirmed it was an odontogenic tumor, which always originate from tissues that grow teeth and can only be found in jaw bones.



“If they’re not treated, odontogenic tumors that are generally aggressive can be locally destructive,” explained Dr. Kolokythas, who has performed surgery on more than 200 patients with these types of tumors. “Sometimes the first symptom is facial swelling, which means the tumor is growing outside the boundary of the bone, or the first sign can be a jaw fracture.”

“There is no way of predicting who develops these tumors or when they will become problematic,” explained Dr. Kolokythas, who has published extensively on and authored textbook chapters on this subject for pediatric pathology and oral and maxillofacial surgery textbooks. **“These tumors often become evident either on routine imaging or when symptoms begin.”**



“In a complex procedure like this, it’s mission critical that all members of the team feel comfortable working collaboratively.”

~ Dr. Gui Christiano

While the reasons are still unknown, it appears as though the messaging gets mixed up in development because some patients end up with a tumor in the location where teeth should be and aren’t.

These tumors are almost always benign, she added, stating that only 1 or 2 percent are cancerous, or behave as cancerous by metastasizing to the lungs.

After Dr. Kolokythas explained the serious nature of his tumor to Michael, he wasn’t convinced.


“Right from the beginning, I laughed it off,” Michael recalled. “I didn’t believe I had that tumor. I was definitely in denial.”

Several months passed before he eventually accepted the reality of the situation, and agreed to surgery.

Given his age, overall health status and type of jaw resection required, Michael was the ideal candidate for the one-stage procedure.



Interdisciplinary Surgical Team – (l to r) EIOH specialists Dr. Antonia Kolokythas, Dr. Carlo Ercoli, and Dr. David Romeo worked collaboratively with plastic surgeon Dr. Gui Christiano to conduct a tumor removal with immediate reconstruction and dental rehabilitation in one stage.



Dr. Gui Christiano explains the different steps of Michael's complex surgery to guests during a Meliora Weekend Inauguration event.

While this technique and the inherent collaboration it requires across the various specialties is being performed at select leading centers in the U.S., it is a first for the University of Rochester Medical Center. UR Medicine is the only place in Upstate New York performing this procedure, which took about 12 hours.

"We are thrilled to bring this advanced level of treatment for patients in our region," said Dr. Kolokythas, who sees patients every day who can benefit from this procedure. "It requires collaboration between medicine and dentistry, and extensive pre-operative planning and coordination among all the team members."

Thanks to 3-D virtual surgical planning and 3-D printing, the team was able to capture images of the tumor, jawbone, fibula and teeth to precisely measure, plan and engineer every step of the surgery beforehand.

Virtual planning allows for accuracy and reproducibility of the planned surgery while significantly reducing operating room time.

"In a complex procedure like this, it is mission-critical that all members of the three teams involved feel comfortable working collaboratively, with open channels of communication," said Dr. Christiano, assistant professor, Division of Plastic Surgery. **"Everybody's role is important. Everyone needs to be at his or her best on surgery day. And we were, for Michael."**

I am very proud of the team we have here."

"In line with our University motto, Meliora—or Ever Better—we are always striving to improve what we do across our mission," said Dr. Carlo Ercoli, chair, Eastman Institute Prosthodontics Department. "Because of this approach, the patient wakes up with an already reconstructed bone and gum structure and a functional set of teeth and oral structure that dramatically and positively affects his or her quality of life."

"It requires collaboration between medicine and dentistry, and extensive pre-operative planning and coordination among all the team members."

~ Dr. Antonia Kolokythas

Dr. Davide Romeo, a prosthodontic resident who designed the 3-D fabricated implant bridge, and Dr. David Schwartz, also a prosthodontic resident, worked with Dr. Ercoli during the lengthy procedure

to fit and install the bridge once the fibula was in place in Michael's jaw. Dr. David Lillian, an OMFS resident, was also present.

Because the entire reconstruction is done through the mouth, the patient awakes and, aside from initial swelling and soreness, is able to return to normal daily activities soon afterwards.

"Everyone was awesome," said Michael, a songwriter and musician. "They were phenomenal. I thank God for Dr. K and the whole team...they are all a blessing. They were very supportive throughout the whole process. I felt that I was in really good hands." ♦

"Everyone was awesome. They were phenomenal. I thank God for Dr. K and the whole team."

~ Michael Smith

Dr. David Lillian



Michael Smith, pictured with OMFS Chair Dr. Antonia Kolokythas, considers his surgical team a blessing.



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Specialty Care

New Clinic for Medically Complex Patients Now Open

Interdisciplinary Collaborations Improve Patient and Resident Experience

The new multi-million-dollar Specialty Care clinic is now available for people with medically complex conditions who have faced barriers to dental care for years.

This first-of-its-kind dental clinic in the region will serve adult patients with medically complex conditions and intellectual and developmental disabilities (IDD) at Eastman Dental, part of UR Medicine's Eastman Institute for Oral Health. Children with medically complex conditions are seen by pediatric dentists at Eastman's various locations and SMILEmobiles.

For adults experiencing cancer, diabetes, multiple sclerosis, heart conditions, obesity, IDD, pregnancy, HIV, and many other complex conditions, access to dental care can be very challenging because there are not enough qualified dentists who have the proper training or the facilities that can accommodate them.

Eastman Institute for Oral Health unveiled its new seven-room Specialty Care clinic during a ribbon cutting event in October.



(l to r) Dr. Bill Calnon, Larry Kessler, Tom Richards, UR President Sarah Mangelsdorf, Dr. Eli Eliav, Holly Barone, and Dr. Wayne Lipschitz cut the ribbon marking the official opening of the Specialty Care clinic.

"The University's commitment to strengthening inclusive excellence—a community where every individual is welcome and included—is demonstrated in so many ways within Eastman Institute for Oral Health," said University of Rochester President Sarah Mangelsdorf at the event. "I've come to know that Eastman Institute is an integral part of the Medical Center, and we will continue to build on its storied past and build a bright future together."

Located at its main building at 625 Elmwood Ave., highly trained dentists and dental specialists work closely with a patient's physician to provide comprehensive care. The clinic features large treatment rooms and a new elevator to accommodate stretchers and wheelchairs. Also, a special lift for patients who are wheelchair bound, a bariatric chair, and other features help ease anxiety and provide a comforting experience.

"Taking care of everybody's teeth is important, because of the link between oral health and systemic health," said Dr. Mark Taubman, University of Rochester Medical Center CEO.

"And it's important to provide a variety of environments that allow us to do this in the best way possible. Eastman Dental's new Specialty Care clinic is the next step in a series of steps to make sure we really are among the leaders taking care of this population."



After four painful months of searching for a dentist who could accommodate him, Michael Pedroncelli drove three hours one way to receive treatment at Eastman Dental. The new Specialty Care clinic has a bariatric chair to help people like Michael who have previously faced barriers to care.



Dr. Nadia Stephens (GenDen '10), assistant director of Specialty Care, extracted Michael's tooth.

"It's been a fantastic experience from the moment I called Eastman Dental," he said.

A new large elevator was installed to accommodate Specialty Care patients on stretchers and large wheelchairs.



For Tom Richards, president of the URM Board and a University of Rochester trustee, the new clinic exemplifies what the Medical Center is all about.

“We’re pleased and honored that you’ve taken the time to develop this clinic,” he said. “That you recognized the need and took on the mission. On behalf of the Medical Center, you’ve done us proud. Thank you very much.”

“This three-tier approach provides patients with a team of doctors to focus on the patient’s individual needs,” said Eli Eliav, DMD, PhD, director, Eastman Institute for Oral Health. “Dentists, dental specialists, and physicians, nurses and others work closely together to provide the patient with optimal care, and allows us to use resources and expertise throughout the University.”



Denita Kennedy showed UR President Mangelsdorf how an air glide chair works.



The renovations included beautiful new areas dedicated for the Bibby Library, resident study space and a lounge.



A special lift significantly enhances care for patients who are wheelchair bound.

Patients with child onset conditions such as cystic fibrosis, severe developmental disabilities, spina bifida, or patients on a ventilator are seen at the Complex Care Center. Patients who are hospitalized, medically fragile, or who require treatment in the operating room are seen at our facilities in the hospital.

“Expanding access to oral health services is critical to improving overall health and wellness in Monroe County,” said Michael Mendoza, MD, MPH, Monroe County Public

Health Commissioner. “The new Specialty Care clinic at Eastman Dental is an especially bold and important step toward addressing health inequities in the county.”

The new clinic, managed by Director Wayne Lipschitz, DDS, MS, (GenDen '92, MS '17) and Assistant Director Nadia Stephens, DDS (GenDen '10) will also help meet the increasing demand outside the Rochester area, and for the many patients who travel from several hours away and surrounding states to receive specialty care at Eastman.

A new conference room was installed on the 7th floor to host Board meetings, classes and special events.



URMC Board President and University of Rochester Trustee Tom Richards complimented Eastman Institute's leadership in providing access to care for patients with medically complex conditions and special needs.



(l to r) Dr. John Vorrasi, Karen Kessler, UR Trustee Laurence “Larry” Kessler, and Dr. Eliav.



John and Linda Buttrill pose next to the Specialty Care treatment room in their name.

For more information, visit SpecialtyDental.urmc.edu.

The Specialty Care clinic also serves as a setting for educating the next generation of dentists and dental specialists.

“We’re addressing the significant shortage of qualified dentists to treat patients with medically complex conditions and intellectual and developmental disabilities through our advanced training programs,” explained Dr. Eliav. “Our graduates carry on the legacy of our founder George Eastman to treat the underserved, with no compromise to quality of care.”

The Specialty Care clinic marks the completion of a two-year Institute-wide renovation, including new sedation suites in the hospital clinic, updated existing treatment rooms, expanded faculty practice, new library and study area, increased conference and seminar room spaces and increased office space for faculty. ♦



UR President Sarah Mangelsdorf said Eastman Institute demonstrates the University's commitment to inclusive excellence in many ways.



Dr. Christopher Calnon (GPR '09) and his wife Dr. Jennifer Calnon (GPR '09) stand outside the Calnon Family treatment room.



Monroe County Public Health Commissioner Dr. Michael Mendoza and Dr. Jin Xiao.



(l to r) Dr. Michael Grassi, UB Dental School Dean Dr. Joseph Zambon and Dr. Bill Calnon (GPR '79).



(l to r) Tom O'Connor, president AI Sigi Community of Agencies and Dr. Jack Howitt (BA '56 , Pedro '62) enjoyed touring the new Specialty Care clinic.

New Pregnancy and Infant Dental Clinic Breaking Barriers

More than 70 percent of women encounter dental problems during their pregnancy, and yet many women, especially those from underserved communities, don't see a dentist while they're pregnant.

And even though research shows poor oral health during pregnancy can lead to premature delivery and low birth rates, very few dentists are even willing to treat them. That's when the cycle starts and accelerates.

Breaking that cycle is the mission of a new Pregnancy and Infant Dental Clinic at EIOH, led by Jin Xiao, DDS, PhD, associate professor. It started out treating pregnant patients one morning a week together with Drs.

Yanfang Ren and Linda Rasubala at Eastman's Howitt Urgent Dental Care clinic, and with the support of Dr. Hans Malmström, chair of General Dentistry.

Now, patients are being seen as part of Eastman's newly established Specialty Care clinic, with additional support and patient referrals from URM Department of Family Medicine chaired by Dr. Colleen Fogarty, Department of Obstetrics and Gynecology chaired by Dr. Eva Pressman, and Monroe County Department of Public Health led by Commissioner Dr. Michael Mendoza.

Believed to be the first clinic of its kind in the U.S., it now has more than 250 patients, comprised of pregnant women and their babies, up to age one. The goal is to see women during pregnancy and break the debilitating and costly cycle of tooth decay—for them and their children.

Dr. Xiao and others have done extensive research on perinatal oral health. They know that the bacteria



Dr. Jin Xiao treats pregnant patients and their babies up to age 1.

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Healthy Baby Network Executive Director Sherita Bullock, center, with Dr. Xiao and Dr. Eliav, works closely with Eastman to identify and help resolve barriers to care.

and yeast in a pregnant woman's mouth gets passed onto her children. These bacteria and yeasts can—and often do—lead to tooth decay.

The barriers to seeking and receiving dental treatment during pregnancy are many: lack of awareness and education, transportation, cost, insurance, or no one to watch other children.

"We need to build awareness among these women, so that they better understand the whole picture," said Dr. Xiao. "We need to do more on a system level, too. Many dentists don't know the latest prenatal oral health guidelines and that it's safe to examine, and often treat, a pregnant woman."

Change is starting to happen. Dr. Xiao has developed strong partnerships within the URM network and the Rochester community, through Healthy Baby Network and the Monroe County Public Health Department.

"This Pregnancy and Infant Dental clinic is a game changer for our community," said Sherita Bullock, executive director, Healthy Baby Network. "We're committed to work with Eastman to identify barriers as they emerge, to discuss challenges as they come up and to find creative, innovative solutions to address them. We are eternally grateful to our partnership with the University of Rochester."

Two National Institutes of Health research grants totaling \$1 million provide essential support for the clinic as well.

"The clinic is serving many needs," added Dr. Xiao. "It's helping us move from bench to community. It's where we can combine our research and our clinical practice to make a difference in the lives of women and their children." ♦



Thank You

On behalf of Eastman Institute for Oral Health, we gratefully acknowledge our donors for supporting our recent renovations. Because of you, we can proudly carry on George Eastman's legacy, using state-of-the art facilities to treat patients, train residents, and conduct top-tier research.

This honor roll recognizes donors to the renovation project. Efforts have been made to ensure the accuracy of the information in this listing.
We apologize for any errors or omissions.

American Dental Partners
Foundation.

Bates, Bruce B.

Becker, Frank

Becker, Rosemarie

Black, Karen E.

Buttrill, John C. (MBA '83)

Buttrill, Linda

Calnon, Christopher W. (GPR '09)

Calnon, Jennifer (GPR '09)

Calnon, Timothy Michael (MS '15,
Ortho '15)

Calnon, William R. (GPR '79, '09)

Colaruotolo, Anthony (BA '73, '13)

Colaruotolo, Lenora A. (BS '79, '13)

Elmwood Dental Group

Feldman, Cecile

Finger Lakes Periodontics

Fishman, Leonard (Ortho '61)

Fulmer, James W.

Fulmer, Marjorie R.

Gandini, Liliana (Perio '93,
GenDen '95)

Gibbs, Susan S.

Girgis, Laura J.

Girgis, Robert F. (Ortho '93)

Gottlieb, Richard L. (GenDen '77)

Henry Schein Dental, Inc.

Hernandez, Elizabeth

Howitt-Vallone, Lauren K. (BA '82)

Judson, Elisabeth Wesson (MA '76)

Judson, Rufus M. (MBA '06)

Judson, Thomas Fearey

Klein, Alan (GenDen '77, Pedo '79)

Lawrenson, Caro

Levinson, Stella A.

Levy, David (Pedo '77, MS '81)

Levy, Jane R.

Li, Ryan (Pedo '81)

Li, Walter (Ortho '79, FLW '80)

Manap, Sari Ratna (GenDen '17,
Pedo '19)

Manera, Calliope Siminelaki
(Pedo '60)

Manera, John (Ortho '60)

Meitner, Sean William (Perio '75,
MS '75)

Muller, Christopher R.

Preston, Joseph L.

Rubens, Cindy L.

Rubens, Jeffrey D.

Rubens, Merton

Santiago, Pedro (Ortho '93)

Saunders, Ralph H. (GPR '76,
GenDen '80, MS '88)

Schwab Charitable Fund

Shaffer, Clare L.

Smith, Don H. (Ortho '69)

Stein, Jeffrey Hall (BA '82,
GenDen '87)

The Pike Company, Inc.

Tompkins Charitable Gift Fund

Vallone, Richard

Vitkus, Lauren (Ortho '16, MS '16)

Westminster Barrington Foundation

Winters, Bryan

Winters, Kathryn R.

Zohn, Harry K.



ALL EIOH PROGRAMS

Gain Full Accreditation Renewal with No Reporting Requirements

Eastman Institute for Oral Health has gained accreditation renewal without reporting requirements in all of its residency programs, indicating the programs achieve or exceed the basic requirements for accreditation.

After a thorough site visit, the Commission on Dental Accreditation, the sole agency to accredit post-secondary level dental education programs and recognized by the U.S. Department of Education, granted approval in Eastman's one- and two-year Advanced Education in General Dentistry programs, General Practice Residency, Orofacial Pain, Orthodontics and Dentofacial Orthopedics, Pediatric Dentistry, Periodontics and Prosthodontics programs. The Oral and Maxillofacial Surgery

Program's accreditation renewal without reporting requirements occurred in 2016.

The purpose of the site visit evaluation is to obtain in-depth information concerning all administrative and educational aspects of the program. In addition, the site visit permits a team of Commission-appointed peers to assess a program's compliance with the accreditation standards and with its own stated goals and objectives.

"Our faculty and staff work very hard year round to provide outstanding training for our residents," said Eli Eliav, DMD, PhD, professor and director, Eastman Institute for Oral Health. "CODA's approval without reporting requirements confirms the team's efforts to provide exceptional post-doctoral education in all of our programs."

Graduation from an accredited program is almost always stipulated by state law and is an eligibility requirement for government funding, licensure and/or certification examinations. Accreditation assures program participants that the approval was given by an independent, reliable and credible organization with the U.S. Department of Education's approval.

CODA formally evaluates accredited programs every seven years, and programs in oral and maxillofacial surgery are conducted every five years. Its mission is to serve the oral health care needs of the public through developing and administering standards that foster continuous quality improvement of educational programs. ♦

EASTMAN INTERNATIONAL ALLIANCE GRAND ROUNDS

Integrated into outstanding universities, the five remaining Eastman Dental Institutions are linked together through the Eastman International Alliance (EIA), which was established to address global problems related to access, to collaborate in education, clinical care, research, and to engage in faculty and student exchanges.

After working out technical and time zone logistics, the first Eastman International Alliance Grand Rounds was born. Oral health experts, faculty, residents and staff from Rochester, NY, Stockholm, Sweden and London, England each shared a complex Oral Medicine patient case.

“No one else is doing this across the globe,” said Stephen Porter, BSc, PhD, MD, director of Eastman Dental Institute in London. “We have highly talented colleagues who manage patients with complex diseases, and events like these will enhance the knowledge and skills of students and staff who will then be able to enhance the oral health and well-being of patients.”

In Rochester, more than 100 residents, faculty and staff gathered to view the large screen where all the participants were visible. “This Grand Rounds clearly demonstrated the quality of the work done at the Eastmans around the globe,” added Eli Eliav, DMD, PhD, professor and director, Eastman Institute for Oral Health. “This is just the beginning. We plan to share other specialty case studies in addition to possibly engage in common research projects, and opinion papers.”

Cyril Meyerowitz, DMD, MS, EIOH director emeritus, played an integral role in coordinating the EIA Grand Rounds, and served as host for the event.

“I have to think George Eastman would be quite pleased to know how his influence and legacy continue to contribute to world class oral health care, education and research around the world,” Dr. Meyerowitz said.

For Sharon Elad, DMD, MSc, chair, EIOH Oral Medicine, it was an excellent educational experience in an exciting environment.

“The cases were very interesting and enlightening,” Dr. Elad said. “It is an honor to collaborate with both London and Stockholm Oral Medicine departments. We look forward to continued collaborations with London and Stockholm, as well as future projects with Rome and Paris, too.”

Larisa Birger, DDS, senior consultant, Oral Medicine with Eastmaninstitutet Stockholm, presented a patient with an uncommon disorder that causes inflammation of the blood vessels in the nose, sinuses, throat, lungs and kidneys called granulomatosis with polyangiitis. The patient suffered from non-specific manifestations for a long time. The diagnosis was made based on unique oral presentation named strawberry-gingivitis.

Professor Porter presented two cases with similar clinical appearance—a rare subtype of oral cancer called carcinoma cuniculatum (CC) and a potentially malignant disorder called proliferative verrucous leukoplakia (PVL), each creating diagnostic and treatment dilemmas.

Dr. Elad presented a case of mixed pemphigoid and lichenoid gingival presentation. Pemphigoid and lichen planus belong to the group of mucocutaneous diseases, which affect the inner lining of the body and the skin. The diagnostic process highlighted a few decisional crossroads, and the case demonstrated the challenges of correlating clinical and lab results, the clinical implications of the lab results, and the management approach.

Pediatric Dentistry was the subject for the second EIA Grand Rounds held in February, and Periodontology is slated for May 29, Prosthodontics/Implants on September 18 and Pain November 13. A website including a video archive of the EIA Grand Rounds is being established. ♦



The Eastman Dental Institutions in London, Stockholm and Rochester conducted its first Grand Rounds in real time.



Oral and Maxillofacial Surgery ▼

Dr. Kolokythas oversees the two new programs.



Eastman Institute for Oral Health has added public health to its wide range of post-doctoral dental training programs.

Formerly sponsored by the New York State Department of Health, this residency program is designed for dentists planning careers in dental public health. This program prepares dentists, who have a master's degree in dental public health, with a broad scope of didactic instruction and practical experience in dental public health practice.

As the oldest Dental Public Health residency program and Commission on Dental Accreditation (CODA) approved since 1966, it is now sponsored by Eastman Institute for Oral Health and called the New York State Dental Public Health Residency Program.

As a research-based residency program, the residents will learn numerous public health competencies, such as how to manage oral health programs for population health, design surveillance systems for oral health, communicate and educate on oral and public health issues, advocate for public health policy, legislation and regulation. ♦

OMFS-MD - The Oral and Maxillofacial Department within the University of Rochester School of Medicine and Dentistry's Eastman Institute for Oral Health has added a new six-year program to award a Doctor of Medicine degree (MD) and a certificate in Oral and Maxillofacial Surgery (OMFS), providing successful candidates the ability to expand their basic knowledge of complex medical conditions and integrate with our medical colleagues. This advanced training, open to U.S. citizens or permanent residents who are graduates of a CODA-accredited dental school, will further provide opportunities for candidates to pursue fellowship training in craniofacial, head and neck oncology, microvascular surgery and ultimately join academic departments.

OMFS - MBA - The OMFS program is also offering an Executive Master in Business Administration (EMBA) degree along with its certificate program. The EMBA degree, earned from the University of Rochester Simon School of Business in three years, will be offered to one resident enrolled in the four-year OMFS certificate program. ♦



Dr. Gajendra oversees the Dental Public Health residents.

Adds Two New Programs

Public Health Residency

► Now at Eastman Institute



TELEDENTISTRY CONFERENCE

More than 100 people throughout the U.S. attended the nation's first ever Teledentistry Conference, held jointly by Eastman Institute for Oral Health and the American Teledentistry Association.



(l to r) Dr. Tony Mendicino, Dr. Dorota Kopycka-Kedzierawski, Dr. Sean McLaren, Dr. Marc Ackerman

The first keynote speaker was Dr. Paul Glassman, director for the Pacific Center for Special Care, a nationally recognized expert in oral health care for people with developmental disabilities and complex medical conditions. He shared the latest on telehealth regulations, ADA policies, and how rising costs and continued disparities call for change. For example, a virtual dental home connected by telehealth teams are showing success in California by reaching more people, lowering costs and emphasizing prevention.

Eastman Institute for Oral Health initiated research on the use of teledentistry to screen large numbers of children for dental caries in the public health setting 17 years ago and following its success in that domain, extended this technology to an interactive service involving EIOH pediatric dentistry and a community health center in an underserved rural region of Western New York.

The second keynote presentation included Dr. Tony Mendicino, dental director for Finger Lakes Community Health, and Eastman's Drs. Ronald Billings, Sean McLaren and Dorota Kopycka-Kedzierawski, who presented their paper, Advancement of Teledentistry at the UR's Eastman Institute for Oral Health. The paper was the only teledentistry article published in *Health Affairs*' December 2018 issue dedicated to telehealth. Select authors, including Dr. Kopycka-Kedzierawski, were invited to present their findings and highlight areas of unrealized potential at a forum held at the National Press Club in Washington, D.C.

The results speak for themselves. Before Eastman's teledentistry initiatives began, there was a 15 percent compliance rate for treatment in the operating room among underserved, young, rural children with severe early childhood caries. Today, there's a 93 percent compliance rate.

Moderated by ATA President Dr. Marc Ackerman (Ortho '00), two panel discussions addressed planning and implementing teledentistry in a private practice, and rethinking clinical practice. Other invited speakers included Mike David, founder and CEO of Dominion National, one of the first dental benefits providers to introduce interactive, online benefit administration; Dr. Keith Dressler, a private practice orthodontist and expert in cloud-based accounts receivable and patient finance; Brant Herman, founder and CEO of Mouthwatch and expert in branding and intraoral camera and equipment sales; Dr. Jeffrey Sulitzer, lead dentist at Smile Direct Club, and Emily Wein, a healthcare regulatory attorney who specializes in telehealth.

"The conference was a much needed introduction to who has been doing what with teledentistry for the past several years," said Leah Carpenter, DMD, chief of Dental Services with the Bassett Healthcare Network in Cooperstown, NY. "Each panel had great representation from different experts. I was glad for the—sometimes contentious—discussions that took place." ♦

“
Each panel had great representation from different experts. I was glad for the—sometimes contentious—discussions that took place.

~ Dr. Leah Carpenter

”

Dentists and Physicians Share One Voice

“The word is out. People come to Rochester and Western NY, and not just for the climate,” joked Dr. Steve Sulkes, a URMCD developmental and behavioral pediatrician and president of American Academy of Developmental Medicine and Dentistry, “but because there are great services here. We’re overflowing. Our medical and dental clinics are full. It’s a measure of our success and a measure of the community’s support.”



(l to r) URMCD CEO Dr. Mark Taubman, EIOH Director Dr. Eli Eliav, Henry Schein's Global Professional Relations Director Michele Penrose

The AADMD's One Voice annual conference was held in Rochester, NY, where physicians, dentists and other leaders in the field gathered at Eastman Institute a day early for engaging panel discussions, presentations and meaningful discussions about how to make more progress in healthcare provision for people with intellectual and developmental disabilities.

Rochester, NY is unique in its ability to provide comprehensive services to children and adults with IDD and complex medical conditions. Having stepped outside of their professional silos, the specialists within the University of Rochester Medical Center are leading the way with interdisciplinary collaborations and innovative solutions that are making a real difference.

EIOH Director Eli Eliav, DMD, PhD, shared with the 120 attendees examples of UR Medicine's innovative approaches to care, such as Eastman Dental's new Specialty Care clinic, the Complex Care Center with multiple services under one roof, and inter-disciplinary treatment. He described the situation of a young man with cerebral palsy who drove three hours every month for over a year to receive periodontal care, oral and maxillofacial surgery and orthodontic treatment. The result? A life-changing smile. (see story, p. 26)

“I’m very impressed with this case,” said Matt Holder, MD, MBA, Global Medical Advisor, Special Olympics. “It’s amazing what you’ve done in Rochester, in addition to attracting the top talent in this field.”

Dr. Holder also has patients who travel several hours one way for dental treatment at his clinic. “You know they are

“It is an honor to have this award. But I accept this award for Eastman Institute for Oral Health, not for me.”

~ Dr. Eli Eliav

passing a lot of dentists along the way,” he remarked. “It’s almost unconscionable, but that’s the situation we’re in.”

Communication between disciplines and specialties is paramount to improve care and focus on prevention, Dr. Holder emphasized. “When I learned that the tooth structure erodes faster than a metal filling, it blew my mind,” he recalled. “Why didn’t anyone tell me this in medical school? I now make it a point to tell this to every medical student I work with.”

Jack Dillenberg, DDS, MPH, executive clinical director of the Pacific Dental Services Special Needs Dental Clinic in Arizona, agreed wholeheartedly about needing to do a better job for people with IDD, but also for seniors, nursing home residents, veterans and oral cancer patients.

The traditional way of doing things has to change, he stressed, and can only happen when there’s trust, integrity and thinking outside the box.

“Blow up the box!” he encouraged. “Don’t let yourself fall back in. Don’t be afraid to take risks – it’s critical for innovation.”

Dr. Dillenberg would like to see healthcare become more patient centric and value based. He supports the notion of a mid-level provider, and encourages resolution to that debate. He likens it to physicians rejecting physician assistants years ago, but today most practices have them.

“Be the dentist, physician, nurse, the policy maker, the industry person who takes the opportunity to make a difference,” he challenged. “How can we take what we know and translate that in to a health care system that’s relevant, committed and caring for those with disabilities and special needs?”

Other speakers and panelists included Rick Rader, MD, Tiffany Pulcino MD, Adam Joachimiak, Carrie Burkin, Mary Foley, RDH, MPH, Matt Holder, MD, MBA, M. Dian Chin Kit-Wells, DDS, Wayne Lipschitz, DDS, Adela Planerova, DDS, Karen Raposa, RDH, MBA, Mark Wolff, DDS, PhD, Sara Walworth, LMSW, Ann Costello, David Fray, DDS, MBA, Gary Goldstein, and Michelle Ziegler, DDS. ♦



IDD Champion Awards were given to (l to r) Dr. Adela Planerova, Dr. Tiffany Pulcino, Dr. Ralph Saunders and Dr. Eli Eliav.



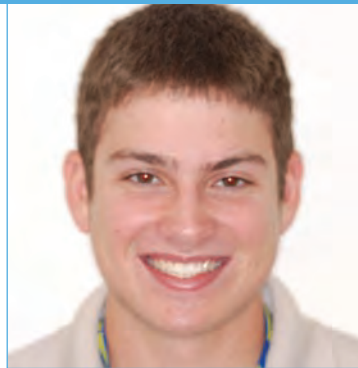
New Eastman Residents Surprised to See Each Other

Both Went to Eastman Dental
Career Camp 11 Years Ago

At age 16, **Scott Koopman** knew he wanted a career in health care, and after a successful afternoon of shadowing his dentist, he knew he was closer to his decision.



Dr. Scott Koopman



Taylor Squires had an interest in becoming an orthodontist ever since he got his braces at age 11.

When they were juniors at different high schools, they each learned about the University of Rochester's Pre-College Program, a series of summer



Dr. Taylor Squires



camps designed to introduce teens to various careers. Among them was a camp hosted by Eastman Institute for Oral Health and they both signed up.

"I thought the camp would be a great chance to explore careers in dentistry and



Young Taylor Squires getting his teeth photographed at the Eastman Dental summer camp.

"I thought the camp would be a great chance to explore careers in dentistry and learn about all the different specialties,"

~ Dr. Taylor Squires

learn about all the different specialties,” said Taylor. And that’s exactly what it was. Scott and Taylor became fast friends during the five days of full-day sessions, where they made impressions and molds, manipulated wires, viewed different patient cases, toured research labs, and performed a variety of hands-on dentistry related activities.

The camp helped confirm their decision, and after high it was the University of Minnesota School of Dentistry for Scott and University at Buffalo School of Dental Medicine for Taylor. Their friendship continued via social media, but they didn’t stay in touch directly.

Taylor was accepted to Eastman’s Orthodontic Residency Program, and was excited to begin.

“I recognized Scott as soon as I walked into orientation,” said Taylor, who was unaware that Scott had been accepted into Eastman’s GPR Residency Program.

“It was awesome seeing him after all these years and to see that even though we took different paths in college and dental school,” Taylor said, **“we both ended up back in the same building, starting the same year, where we first met back in high school.”**

“After interviewing at a few programs back in Upstate NY,” said Scott, “I realized I wanted to come back to Eastman. I am truly so happy that I matched with Eastman Dental. I love all of my co-residents and the quality of experiences is something that I could have never realized.”

“The orthodontic program has been incredible so far,” Taylor said. “It took a lot of hard work to get to this point and I feel that it was all worth it. Treating the patients here has been such a rewarding experience and I have met such incredible students and faculty.”

Clare Shaffer, RDH, MS, ran the camp for many years before her retirement in 2016.

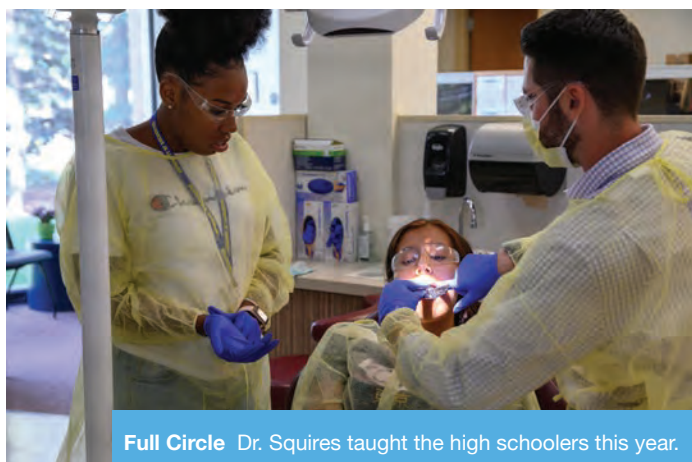
“Students had a variety of reasons for enrolling,” recalled Clare, who said many attended because their parents signed them up, or they love science, or they like working with their hands. A few, like Scott and Taylor, stated they wanted to be a dentist and felt that taking the course might help them get into a good college or dental school.”

Evaluations at the end of the week always state that the students had a better understanding of the importance of oral health and how it relates to general health, and the knowledge they learned would help them in their personal lives as well as other possible careers like teaching, scientific research, nursing, or medicine.

“The students come in with an initial curiosity about dentistry, and throughout the week, their knowledge expands,”

Clare added. **“And, that’s exactly why this program exists.” ♦**

Clare Shaffer



Full Circle Dr. Squires taught the high schoolers this year.

“I am truly so happy that I matched with Eastman Dental for my residency program. I love all of my co-residents and the quality of experiences is something that I could have never realized.”

~ Dr. Scott Koopman

**MAN WITH
CEREBRAL
PALSY
FOUND
COMPASSION
AND
COMPLEX
TREATMENT
AT EASTMAN**



When 20-year-old Michael Crymes told his parents he wanted braces, they never thought they would have to travel to another city to find an orthodontist who would treat him.

That's because Michael has cerebral palsy (CP), a disorder that affects body movement, muscle control and coordination, caused by damage to the developing brain.

After being turned down by several orthodontists near their home in Niagara Falls, Michael's pediatric dentist recommended Eastman Dental in Rochester, NY, an hour and a half drive away.

"They welcomed us with open arms," recalled Michael Crymes, Sr. "We were excited they were willing to take care of him."

Michael Jr. is wheelchair dependent and has limited control over his arms and hands, and therefore unable to brush his teeth. While his parents and grandparents were doing the best they could, there were some decalcifications and gingivitis. Some of Michael Jr.'s medications caused gingival enlargement, where his gums grew over the tooth surfaces, making it even harder to clean them.

Michael Jr.'s malocclusion was severe, creating an open bite where his mouth remained open all the time, making it difficult to chew and speak. His treatment involved a team of specialists and several procedures over many months.

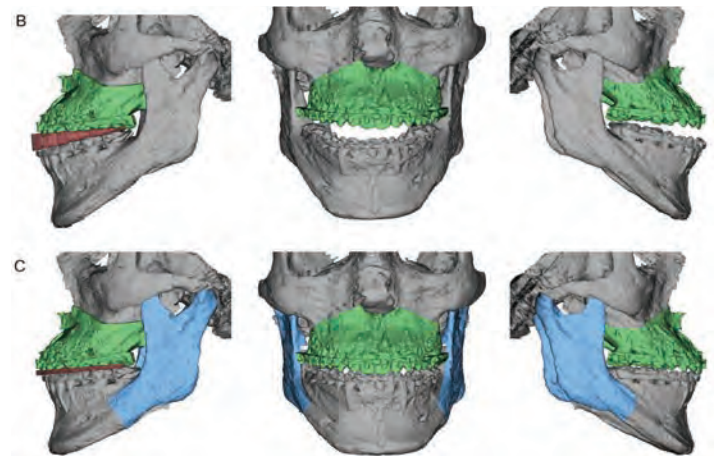
"Together, our goal was to improve his ability to eat, speak and breathe," said Dr. Dimitris Michelogiannakis, an EIOH assistant professor and Michael's orthodontist who coordinated the multi-disciplinary treatment. He also wrote a case report published in the *Journal of Oral Maxillofacial Surgery*.

Michael Jr. and his parents traveled to Rochester every six weeks. His appointments lasted longer than usual, because of the challenges associated with cerebral palsy, such as inability to control his tongue, keep his mouth open and to stay still during clinical procedures.

Eastman's Periodontics Department treated his gingivitis and made sure his teeth were in optimal shape before the braces were placed. Throughout his entire treatment, he was seen every two months for cleanings and exams.



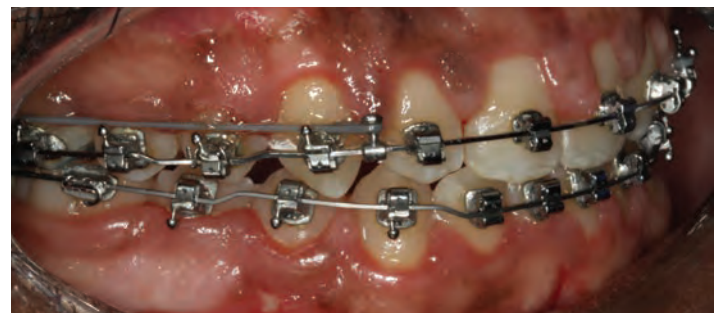
Before treatment.



Virtual Surgical Planning is key for precision and excellent outcomes.



Michael was treated for decalcifications, gingivitis and gingival enlargement.



Michael had 12 months of orthodontic treatment before his orthognathic surgery.

Each visit, Michael Sr. transferred his son from the wheelchair to the dental chair. Despite the challenges, Michael Jr. and his providers worked great together, taking breaks whenever necessary. “They took the time to find out what Michael wanted, and how he felt throughout the process,” Michael Sr. said.

“I felt like I was home,” Michael Jr. said, describing his care at Eastman. “It was like, over the top! It was awesome.”

After 12 months of orthodontic treatment, Michael Jr. was ready for his orthognathic, or jaw surgery.

Using 3-D x-rays and virtual surgical planning, Dr. John Vorrasi, the Oral and Maxillofacial surgeon who treated Michael Jr., was confident about an excellent outcome, but he had serious concerns with performing the

surgery. The procedure included both upper and lower jaw surgery to close the open bite, re-position the jaws for symmetry, and stabilize them.

“It was a risk to do the surgery on Michael knowing that if his upper airway muscles did not help maintain his airway and help him breathe,” explained Dr. Vorrasi, an assistant professor with UR Medicine’s Eastman Institute for Oral Health, “that he may need a surgical airway or tracheostomy during his healing period.”

Everything went very well, and Michael healed without any problems. After the jaw surgery, Michael continued with his braces for five more months.

When his braces were removed, there was one last stop at the Periodontics Department for a gingivectomy, to remove the gum overgrowth.

“The result was great and his oral health was improved,” said Dr. Elli Anna Kotsailidi, EIOH assistant professor, who was a senior Periodontics resident at the time.

“Michael’s diction has improved dramatically,” said Michael Sr., “allowing us to understand him much better now.” Michael Jr.’s breathing and chewing have also improved, adding to a better quality of life overall. ♦



Michael’s new smile improved his ability to chew, breathe and speak.



Interdisciplinary Team – (l to r) Periodontist Dr. Elli Anna Kotsailidi, Orthodontist Dr. Dimitris Michelogiannakis, and Oral and Maxillofacial Surgeon Dr. John Vorrasi



Michael Jr. shared his gratitude through a rap he wrote and shared with Dr. Michelogiannakis over the phone:

Smile, My Dentist, My Friend--

Without my smile, I thought I was ugly.

With my smile, you changed my life completely.

Not only my life, but my family life also.

I appreciate everything that you have done for me.

And you not only became my dentist, but you also became my friend.

I am glad I got to meet your staff.

Because of the surgery and the dental work, I have this smile.

I wish there was something I could do to repay you guys.

But seeing the look on your face and my family when I smile is payment enough.

Thank you.

Sincerely,

Michael Crymes, Jr.



Dr. Quivey

Robert G Quivey, Ph.D., is stepping down as director of the Center for Oral Biology (COB) and Margaret and Cy Welcher Professor in Dental Research. He will remain in that role until a new director is named, and will continue as professor in the Department of Microbiology and Immunology.

A widely published and accomplished scientist in the area of *Streptococcus mutans*, Dr. Quivey and his team have worked to gain a better understanding of the biology behind the how and why the organism causes dental caries, known to most people as cavities. Recently, the work of Dr. Quivey and two graduate students, Chris Kovacs and Andrew Bischer was featured on the cover of the scientific journal *Molecular Microbiology*. Their results not only provide new insights into how cavities form, but also into how other species of streptococci cause disease in humans.

Dr. Quivey, whose work has been continuously funded for more than 35 years, was

named COB director in 2009, when Eastman Institute for Oral Health was established, uniting the clinical, education, basic and research components under single leadership. Dr. Quivey received his bachelor's and master's degrees from Penn State and his PhD from the University of Texas. He came to Rochester in 1984 as an NIH-NIDCR post-doctoral trainee in microbiology, and subsequently joined the faculty in 1988.

Under his leadership, Research Training and Research Education grants from the National Institute for Dental and Craniofacial Research, part of the National

Institutes of Health, were renewed twice and supported more than 90 trainees. He has played an integral role in the successful collaboration between the Center for Oral Biology and the School of Medicine and Dentistry's departments of Pharmacology and Physiology, Microbiology & Immunology, Biomedical Genetics, Dentistry, Medicine and Dermatology. Dr. Quivey regularly reviews scientific articles for journals in oral biology and in microbiology, and has participated in many NIH reviews of scientific grants and PhD-training programs funded by NIDCR.

"Rob has played an integral role in helping foster collaboration between basic and clinical and translational research," said Eli Eliav, DMD, PhD, professor and EIOH director, who had heard about Dr. Quivey's work long before he joined EIOH. "I'm looking forward to future collaborations and a continued working relationship with him."

Dr. Quivey followed previous COB Directors Larry Tabak, DDS, PhD, the current Principal Deputy Director of the National Institutes of Health and Jim Melvin, DDS, PhD, the former Deputy Scientific Director of National Institute of Dental and Craniofacial Research.

"Dr. Quivey has continued the outstanding leadership tradition in the COB. As director, Rob significantly enhanced the Center's mentoring and training programs, by serving as Principle Investigator for one of the largest training grants here at URM. He also led the closer integration of COB with Eastman Institute of Oral Health," said Stephen Dewhurst, PhD, professor and chair, Department of Microbiology and Immunology. "Thanks in large part to his efforts, the EIOH now ranks ninth nationally in NIDCR funding."

**"As director,
Rob significantly
enhanced the
Center's mentoring
and training
programs."**

~ Stephen Dewhurst, PhD



In his own words....

Stepping down from an administrative position in a research University setting is a part of the normal, healthy process of turnover in leaders, with the goal of acquiring fresh perspective and ideas from new appointees.

The central concept in the EIOH "era" has been to bring clinical and basic research into closer proximity and to promote the advancement of science and education in both venues.

Dr. Melvin, director of the COB and a long-time friend and associate, moved on to the National Institute for Dental and Craniofacial Research at NIH, and I was named the 7th Director of the Department of Dental Research/COB and the Margaret and Cy Welcher Chair, for which I will be forever grateful. I had been associated with the Center since 1984 at that point, roughly 24 years. The mission was quite clear: maintain our international reputation for research excellence and the history of educating future "prominent" oral biologists, both of which were to be built on solid NIH funding.

In the ensuing 11 years, I have had the enormous pleasure of interacting with doctoral students who came into our Training Program in Oral Sciences from around the Medical Center. The breadth of their projects was nothing less than astonishing and their publications not only led to their PhD diplomas, but also contributed to our institution's track-record of success.

Along the way, I had outstanding support in our administrative office. Wendy Keck and Nicole Beaumont have contributed substantially to the success of the program. The joy I have had placing a doctoral hood on my 15 (and counting) PhD students is beyond my words, it had to be experienced: the culmination of years of work on research projects and the students' transition to new lives as young professionals. I was fortunate to have hired an outstanding laboratory manager, Roberta Faustoferri, who nurtured each of those students, and provided center-wide assistance over the same 35 years that I have enjoyed in the Center for Oral Biology. I wish the next director the same experience that I have had. ♦



Can Exercise Help Recognize Chronic Pain Risk?

Junad Khan, BDS, MPH, PhD, Program Director for the Orofacial Pain Residency Program and a team of experts are studying the science surrounding chronic pain, and are finding interesting connections related to exercise.

Scientists have long known that exercise has multiple benefits, including alleviating pain. The phenomenon of pain reduction after exercise is known as exercise induced hypoalgesia, or EIH.

Dr. Khan and his team believe that an individual's capacity for EIH, or their EIH profile, can indicate how

efficiently their body modulates pain, ultimately causing the suppression of pain.

“Our research has shown that the level of hypoalgesia—the decreased sensitivity to painful stimuli—induced by exercise can help us recognize who is at risk for developing chronic pain following injury or trauma,” said Dr. Khan, whose studies have been published recently in *Journal of Pain*, *Journal of Oral & Facial Pain and Headaches*, and *Oral Surgery, Oral Medicine, Oral Pathology and Oral Radiology*.

Orofacial Pain Residents Helping Patients with Sleep Apnea

About 25 million people in the United States are affected by sleep apnea and many more remain undiagnosed and untreated; the implications can be far ranging for children and adults.

Obstructive Sleep Apnea (OSA) can contribute to enlarged tonsils and adenoids and predispose younger patients to allergies, respiratory infections and airway



Seated (l to r) Yenisey Valdes Torres, Maryam Altuhafy, Surya Aparna Bhavaraju, Weiran Jiang. Standing (l to r) Sandeep Talluri, Osamah Al-Azzawi, Junad Khan, Amit Wadke, Hussein Alhasin. Not pictured: Noor Al Obaidi

obstruction, as well as negatively impact growth and development, academic performance, and behavior. For adults, OSA can contribute to enlarged tonsils and adenoids, elongated soft palate, septal deviation, and has been linked with hypertension, insulin resistance, depression and cognition.

While the most popular of available treatments is the CPAP, a device that provides continuous positive airway pressure, Oral Appliance Therapy is recommended by the American Academy of Sleep Medicine for mild to moderate cases.

Most of these patients can experience a prolonged Stage Two sleep, when detrimental effects of bruxism, TMDs and occlusal instability can occur.

EIOH Orofacial Pain residents are trained to recognize signs of sleep apnea and make referrals accordingly. Once a physician makes the OSA diagnosis, faculty and residents work with the physician to help manage treatment with an oral appliance.

The custom-made oral appliance is worn like a mouth guard or retainer, preventing the patient's airway from collapsing by either holding the tongue or supporting the jaw in a forward position. The patient sleeps with the appliance nightly, allowing a deep restorative sleep to occur.

“Because many patients suffering from sleep apnea are not getting treatment,” Dr. Khan explained, “dentists can play a valuable role in guiding the patient in the direction of proper diagnosis and treatment. In addition to chronic pain, neuralgias, and temporomandibular disorders, dental sleep medicine is an interdisciplinary field that is dramatically benefitting patients.” ♦



Residents learn all the stages of making a customized sleep appliance for patients.

Tooth decay is the most common chronic disease among children in the United States. Rochester's Eastman Institute for Oral Health is trying to change that with the nation's first dental clinic for pregnant women and their babies. Here, education and compassionate care are given freely so that tooth decay is one less thing to worry about. Because healthy teeth make for brighter smiles all around.

**The
Rochester
Effect.**

For smiles ever better.



EverBetter.Rochester.edu

EIOH Hosts First HRSA Grantee Mini Conference



Dr. Lauren Feldman, Dr. Jennifer Holtzman, Dr. Linda Rasubala, Dr. Elise Sarvas, Dr. Elizabeth Kapral, Dr. Stephanie Gill

While interdisciplinary healthcare treatment is ideal, implementing such an approach can be very challenging. For decades, generalists and specialists in medicine and dentistry have worked just fine in their silos, thank you very much. But one can no longer deny the enormous patient benefits of working more collaboratively across disciplines.

And the federal government is helping the process along.

The U.S. Department of Health and Human Services' Health Resources and Service Administration (HRSA) awarded five-year grants in 2017 to help transform health care in innovative ways. Six of these Primary Care Medicine and Dentistry Clinician Educator Career Development Awards went to dentistry.

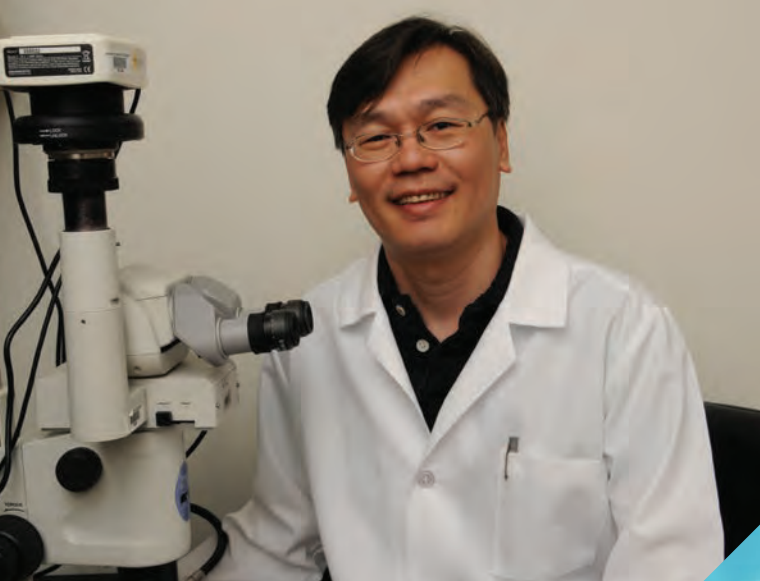
The award provides career development for junior clinical faculty in primary care and dentistry for five years as well as support an innovative project involving the transformation of health care delivery system.

One of the award recipients, EIOH's Dr. Linda Rasubala, decided to host a first-ever mini conference where she and the other awardees could meet face to face, and learn from each other's successes and challenges.

"Everyone agreed that meeting in person was very meaningful and added so much value compared to the quarterly group conference call," she said about the event, which was the first in HRSA career development and K02 award history.

Dentists and physicians from the University of Rochester Medical Center, Eastman Institute for Oral Health, New York University College of Dentistry, Bellevue Hospital, Penn State College of Medicine, Erie County Medical Center, Harvard School of Dental Medicine, and the University of Minnesota gathered in Rochester, NY for two productive days.

"We made a significant investment in these young faculty members, and because resources are limited, we want to be sure we maximize these opportunities," said Jennifer Holtzman, DDS, MPH, Dental Officer, Bureau of Health Workforce, HRSA, who oversees the grantees and works to ensure growth in the desired outcomes. **"The conference was really helpful because I left with some great ideas and feedback. It was wonderful to see the awardees connecting on a level that wouldn't have been possible otherwise."** ♦



The National Institute for Dental and Craniofacial Research funded grant, Genetic Regulatory Network in Craniofacial Development, allows him and co-investigator Dr. Takamitsu Maruyama, research assistant professor of Dentistry, to continue efforts to decipher the skeletogenic signaling network underlying craniofacial development and disease.

The primary objective is to investigate the fundamental mechanisms underlying skeletogenesis with a specific emphasis on how skeletal stem cells are maintained at undifferentiated state, how the decision is made for them to become bone (osteoblast) or cartilage (chondro-cyte) cells and how aberrant regulation of these processes lead to skeletal deformities.

“We currently focus on the interplay of Wnt, FGF and BMP pathways,” Dr. Hsu explained. “By elucidating the mechanism underlying skeletal development mediated by these regulatory networks, we hope to advance the knowledge base of human diseases.”

Since the grant started in 2006, Dr. Hsu and his team have published 22 peer-reviewed article in high impact journals, including *Nature Communications*, *Science Signaling* and *PNAS*. ♦

Dr. Hsu's Research Renews Again for 18-Year Total

Wei Hsu, PhD, dean's professor in the Department of Biomedical Genetics in the Center for Oral Biology and a scientist with the Eastman Institute for Oral Health received a five-year grant renewal for \$2.58 million.

Congratulations to faculty who have been promoted

Maricelle Abayon DMD, MS

Associate Professor of Clinical Dentistry

Konstantinos Chochlidakis DDS, MS

Associate Professor of Dentistry

Lisa DeLucia DDS

Associate Professor of Clinical Dentistry

Julian Kahn DDS

Clinical Associate Professor of Dentistry

Junad Khan BDS, MPH, PhD

Associate Professor in Dentistry and the Center for Oral Biology

Dorota Kopycka-Kedzierawski DDS, MPH

Professor of Dentistry and the Center for Oral Biology

Wayne Lipschitz DDS, MS

Professor of Clinical Dentistry

Shaima Malik BDS, MS

Adjunct Associate Professor of Clinical Dentistry

Deborah New DDS, PhD

Clinical Assistant Professor of Dentistry

Adela Planerova MUDr, MS

Associate Professor of Clinical Dentistry, and Clinical Pediatrics

UR Ranks Ninth for NIH-Funded Oral Health Research

The University of Rochester /Eastman Institute for Oral Health has recently been ranked as the ninth top funded institution by the National Institute of Dental and Craniofacial Research (NIDCR), part of National Institutes of Health.

"We are pleased that our work in the basic, clinical and translational arenas continues to be valued," said Eli Eliav, DMD, PhD, director, Eastman Institute for Oral Health.

Throughout its history, Eastman has consistently ranked in the top 10 NIDCR-funded institutions. The ranking is especially significant because the University

of Rochester's dentistry and oral biology research arm through Eastman Institute for Oral Health is much smaller compared to the other high-ranking institutions.

Eastman Institute for Oral Health research programs encompass a wide variety of areas, including oral infectious diseases, dental caries, salivary diagnosis and therapy, craniofacial development, orofacial pain, periodontal diagnosis and therapy, implants, materials, lasers, nerve injury and pain modulation, and practice based research, among others.

"We are optimistic that future and pending research awards will place us even higher in the near future,"

added Dr. Eliav, who also serves as a vice president for the University of Rochester Medical Center.

Recent grants are funding studies to examine the role of behavior and stress in children's tooth decay and to explore the role of yeast in infants who have a high risk for severe early childhood caries. A university-wide grant supports using innovative technology to discover preventive treatments for salivary gland radiation damage typical for head and neck cancer patients. In addition, a twice renewed grant allows expansion of the Center for Oral Biology's renowned training program for oral biologists and dentist-scientists. ♦

Linda Rasubala DDS, PhD
Associate Professor of Clinical Dentistry

Xiomara Restrepo DDS
Clinical Assistant Professor of Dentistry

Renee Roland DDS
Clinical Assistant Professor of Dentistry

Erin Shope DMD
Associate Professor of Clinical Dentistry and Clinical Surgery

Edward Sommers DMD
Associate Professor of Clinical Dentistry

Michael Spoon DDS
Clinical Associate Professor of Dentistry

Alexandra Tsigarida DDS, MS
Associate Professor of Clinical Dentistry

Cynthia Wong DMD
Associate Professor of Clinical Dentistry and Clinical Pediatrics

Maureen Wood DMD
Clinical Assistant Professor of Dentistry

Jin Xiao DDS, PhD
Associate Professor of Dentistry and in the Center for Oral Biology



Graduation

For the first time, Eastman Institute for Oral Health joined the University of Rochester's School of Arts, Sciences and Engineering and the School of Medicine and Dentistry for the Master of Science Commencement Ceremony. Five Eastman graduates received the MS degree in Dental Sciences. The MS degree was approved by the New York State Education Department in 2016.

They are among the 73 people from 45 different countries who received their degrees and certificates for completing their advanced, specialty training in various programs. The candidates entered the room in a processional to the traditional "Pomp and Circumstance" song, held this year at the Doubletree by Hilton Hotel.

Following some humorous jabs at non-memorable graduation speeches with trite messages, like 'never stop learning,' and 'be the change you wish to see in the world,' Dr. Levy (Pedo '77, MS '81) professor and chief quality officer passed on some advice he's followed since he received it during his first year of dental school.

"Take time for yourself, to pursue interests and hobbies seriously," said Dr. Levy, who has been an active part of the lives and careers of hundreds of residents. "I have seen too many of my contemporaries say that professional life has been everything to them and then can't imagine what they'll do after retirement.

Treat patients like family, Dr. Levy also advised the graduates.

"Treat them ethically and with kindness and empathy," he encouraged. "When life pressures are on your mind, remember the most important focus is the patient at the end of your fingertips."

AWARDS

The Director's Award was presented to **Dr. Ross Tallents** (GenDen '73, Prosthodontics '79), who was appointed faculty in the Orthodontics Department after completing his residencies.

He was promoted to Professor, Departments of Orthodontics, Temporomandibular Joint Disorders and Prosthodontics and served in this capacity from 1993 before his recent retirement.

He was the Program Director for the TMD program since its inception before stepping down recently. Dr. Tallents has educated numerous students, published more than 150 journal articles and book chapters, and presented lectures nationally and internationally. He has been a leader in the field of TMD and has played a significant role, not only in the education of TMD Fellows, but also guiding orthodontic residents over his tenure.

Each year, the Dentistry faculty and residents are given the opportunity to nominate part-time faculty who give a great amount of personal time and understanding to those involved in our educational programs. This year's recipients are **Dr. Gerry Rosen** and **Dr. Mohamed 'Bobby' Baig**.

The Shaffer-Devries Award for Excellence in Administrative Operations or Clinical Service was awarded to **Rita Cacciato**, who began her career at Eastman 19 years ago as a dental hygienist. Today, she is a human subject research coordinator managing multiple research projects at Eastman, and the Northeast regional research coordinator for the National Dental PBRN.

Basil G. Bibby Fellowship Award

Former Eastman Director Basil Bibby encouraged young people to think and to participate in research with the realization that research caused one to focus attention and foster thinking. **Yenisey Valdez Torres** and **Moustafa Youssef** were chosen for this award.

Stanley L. Handelman Fellowship Award

Dr. Stan Handelman established a Fellowship fund to provide support to exemplary students and residents, such as **Dr. German Obando**, who are interested in pursuing a dental academic career.





Another Handelman Award recognized **Othman Alkhateeb** and **Hassan Alzamil** for going beyond the expectations and demonstrating excellent skills in leadership, ethics, initiative, and communications.

This year, a new award was given on behalf of the American Academy of Periodontology, who awarded **Dr. Tal Rapaport** the **Outstanding Teaching and Mentoring Award**.



American Association for Dental Research – Rochester Section

Each spring, a special event highlights research projects completed throughout the year. Out of 35 poster presentations, a team of judges selected five to receive scientific merit awards.

Basil G. Bibby Award

Outstanding scientific merit among presentations by non-degree candidates.

Dr. Elena Bedilo won for her poster titled, "Distribution of Pediatric Dentists Accepting Medicaid in New York State."

Dr. Mackenzie Butcher won for her poster titled, "Bacterial Threshold Corresponding to Caries Development in Early Childhood Caries."

Dr. Sharon Elad was awarded the **Bejan Iranpour Award**, for excellence in clinical education.



Michael G. Buonocore Award

Outstanding scientific merit among oral and poster presentations by degree candidates.

Dr. Naema Alkhars for "Oral Candida Colonization in Infants with High Risk for Severe ECC."

Andrew Bischer for "Stress Regulation on Rhamnose Biosynthesis in *Streptococcus mutans*."



Gerald N. Graser Award

Outstanding clinical case series and/or case reports that describe original, innovative and/or evidence based clinical treatments.

Dr. Kristen Frantz won for her work in "Multidisciplinary Approach to Treatment of Severe Malocclusion and Congenitally Missing Lateral Incisors"

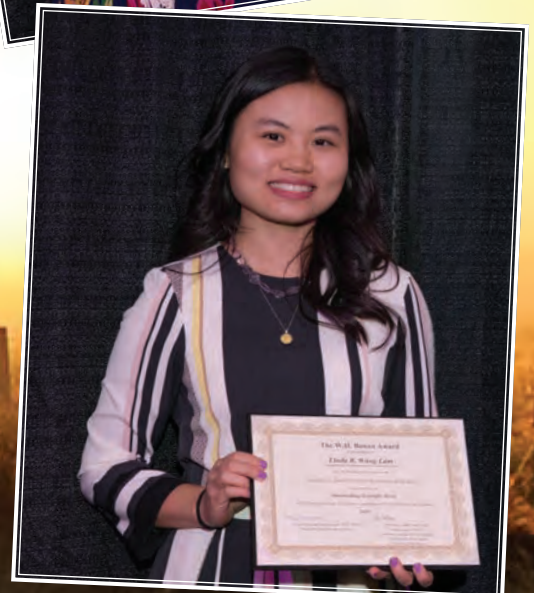
Dr. Adriana Parra Barillas won for her work in "Long Term Treatment for Ankylosed teeth in the Esthetic Zone."



William H. Bowen Award

Outstanding scientific merit among poster presentations by candidates in postdoctoral programs.

Dr. Linda Rona Wang Lam's poster covered "Multicomponent Coaxial Electrospun Fiber Scaffolds for Guided Tissue Regeneration Using Emogain." ♦





Dr. Julie Ann Barna, left, said joining the PBRN has been the best thing she's done for her practice, her patients and herself. She and Dr. Janice Pliszczak represent the NDPBRN's Northeast region on the Practitioner Advisory Committee.

Research Network's Success Leads to NIDCR Renewal

EIOH Providers Play Key Role

Eastman Institute for Oral Health alumni, faculty and hygienists are participating in a national research network that's producing an unprecedented knowledge base and will lead to improved patient care faster than ever before.

The National Dental Practice Based Research Network has been so successful that it was recently awarded \$22.4 million for another seven years (2019-2026) by the National Institute Dental and Craniofacial Research, part of National Institutes of Health.

Initially in 2005, NIDCR funded three different dental practice based research networks that included 1700 practitioners from 43 states. This success led NIDCR to fund a more consolidated effort by establishing the National Dental Practice Based Research Network in 2012, led by the University of Alabama.

This network, initially funded through Fall 2019, and currently funded through 2026, is comprised of six geographical regions. Eastman Institute for Oral Health runs

the northeast region and has enrolled 1,100 providers to date among the 7,000 practitioners nationwide. Many of these have participated in various studies to investigate research questions and share experiences and expertise. Nearly 63,900 patients have participated in various studies.

"The dental practice-based research network is a unique investigative union of real-world practicing clinicians and academic clinical scientists that aims to improve the nation's oral health by expanding the knowledge base for clinical decision-making and moving the latest evidence into routine care," said Cyril Meyerowitz, DDS, MS, director emeritus and professor, Eastman Institute for Oral Health, School of Medicine and Dentistry and grant regional principal investigator. **"The network is a precious national resource for our profession and our patients, and we are fortunate that NIDCR has invested in the future of our profession."**

The National Dental Practice Based Research Network aims to fill three gaps: The knowledge gap, where the effectiveness of a treatment is unknown, the knowing gap, where the effectiveness of a treatment has been scientifically established,

Congratulations to the dedicated faculty and staff who have recently retired.

Your many years of dedicated service on behalf of the Eastman mission, education and optimal care for our patients is deeply appreciated.

Dr. Len Fishman (Pedo '59 Ortho'61)



Professor, Orthodontics and
Dentofacial Orthopedics

Director of ODO Research

Dr. Ross Tallents (GenDen '73, Prosthodontics '79)



Professor, Orthodontics,
Temporomandibular Joint
Disorders, Prosthodontics

Program Director, Orofacial
Pain/TMJD

Laurie Peres



Outpatient Access
Specialist

Teresa McElwain



Dental Assistant

Jim Rhone



Johnson Controls Site
Supervisor

but practitioners are unaware, and the knowing-to-doing gap, where knowledge is available and providers are aware of it, but they have not yet implemented the recommended changes.

Research ideas have largely originated from practitioners, who work closely with academic researchers. Practitioners are engaged at every step, including study design, data collection, data analysis, presentations, and manuscript preparation. The answers can translate quickly into practice. Anyone can visit nationaldentalpbrn.org to learn more about study results, member and patient information, and other resources. The research centers are located in Birmingham, AL, Rochester, NY, Gainesville, FL, Minneapolis, MN, San Antonio, TX, Portland, OR, and Chicago, IL.

“It’s real-world clinicians doing real world research that directly impacts how they treat their patients,” explained Dr. Meyerowitz. “And each practitioner has the opportunity to use the results that are useful to their practices and improve the oral health of their patients.”

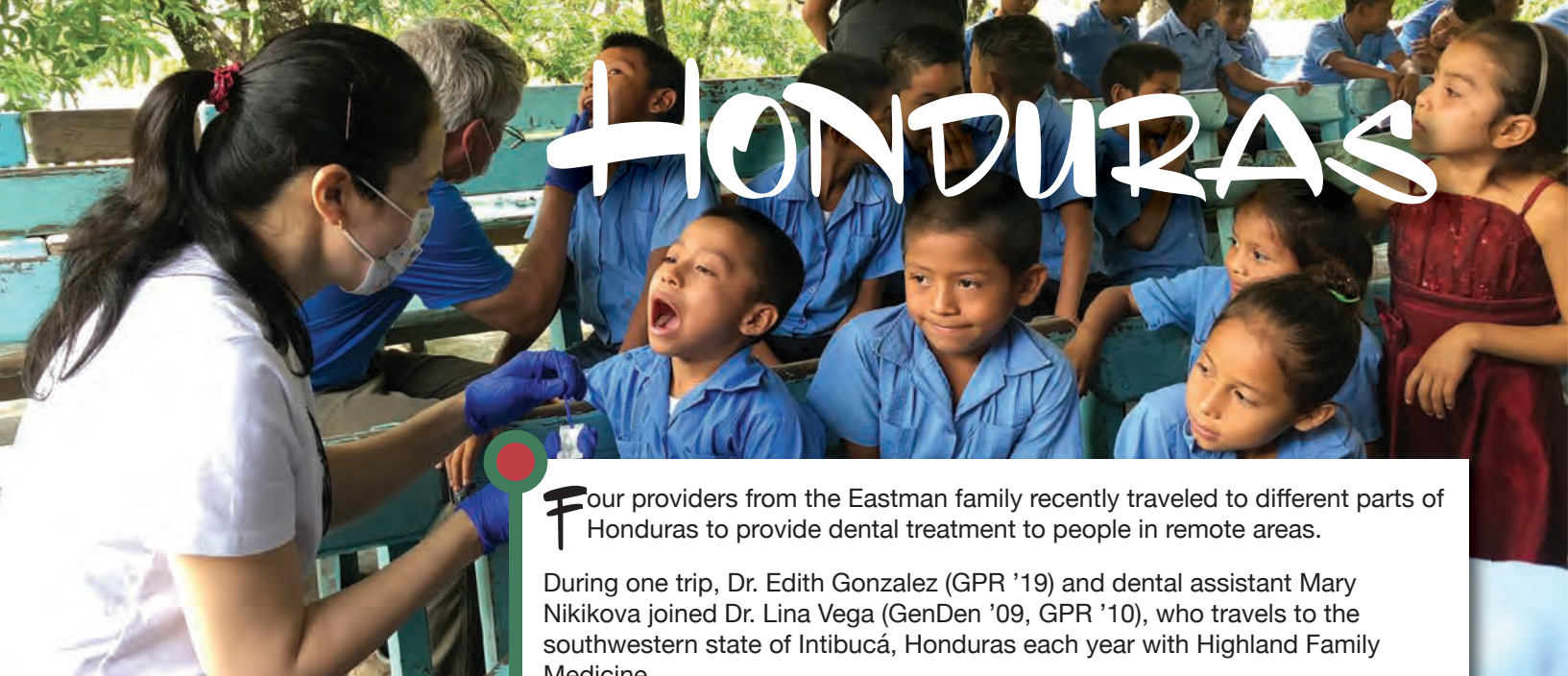
To date, 38 studies have been completed, published in 138 peer reviewed publications and 43 journals, covering a wide variety of relevant topics.

One study was designed because dentists were looking for ways to more accurately identify suspicious lesions extending into the dentin. Others explored the use of opioid prescriptions in the dental office, predicting successful single-unity crowns, different treatment types related to more successful open bite closure, risk for HPV and oropharyngeal cancer, root canal treatment, orofacial pain and many others.

“These studies, in addition to basic research, are proving to be very valuable as we continue to gather evidence-based data to prevent and treat oral diseases,” added Eli Eliav, DMD, PhD, director of EIOH. “The enthusiasm and wide participation among practitioners and organizations demonstrate the commitment to advancing our knowledge and learn new ways to improve patient health and to further benefit real world, everyday clinical practice.”

In addition to Dr. Meyerowitz, Dorota Kopycka-Kedzierawski, DDS, MPH, professor of Dentistry and director of the Clinical and Translational Research Core in Eastman Institute for Oral Health, will serve as assistant regional director of the Rochester NDPBRN Regional Research Center. ♦

HONDURAS



Dr. Gonzalez (GPR '19) screened dozens of children before treatment.



Dr. Sean McLaren, left, said the life-changing trip really opened his eyes to the pain and suffering children endure locally and globally.



Dental and medical providers helped more than 230 people in need.

Four providers from the Eastman family recently traveled to different parts of Honduras to provide dental treatment to people in remote areas.

During one trip, Dr. Edith Gonzalez (GPR '19) and dental assistant Mary Nikikova joined Dr. Lina Vega (GenDen '09, GPR '10), who travels to the southwestern state of Intibucá, Honduras each year with Highland Family Medicine.

For more than 15 years, the UR Department of Family Medicine has run a Global Health Program in partnership with the rural community of San Jose, San Marcos de la Sierra.

"The community really appreciated us being there," said Dr. Gonzalez, who said access to dental treatment is very limited. Together, they treated 146 patients performing extractions, cleanings and fluoridation. **"A shortage of electricity made it difficult to perform restorative procedures, so some Atraumatic Restorations were also performed."**

Dr. Sean McLaren (GPR '03, Pedo '06) also went to Honduras, accompanying Dr. Dennis Clements III (MD '72), chief, Pediatric Primary Care at Duke Children's Hospital. Dr. Clements also serves as director of Duke's Exploring Medicine in Foreign Cultures and takes several students each year to Santa Cruz, Lempira, to provide basic health care.

"It was amazing," said Dr. McLaren, who treated 85 patients over four days in a village that didn't have access to a dentist for five years.

"It really opened my eyes to the pain and suffering that children go through on a day to day basis not just locally, but globally, too," he said. He and Dr. Clements worked alongside the 16 Duke medical residents, nurse practitioner, nursing, and master's in Global Health students, as well as faculty.

Many of the providers who worked with Dr. McLaren shared how much they learned each evening over dinner.

"Medical residents aren't usually looking in a patient's mouth," said Dr. McLaren, who was the first dentist to go on the annual Duke trip, **"so it was fantastic exposure and education on treating the whole patient, and reinforcing the critical link between oral and systemic health."**

Dr. Gonzalez had a similar experience.

"Some doctors from the outreach program came to the clinic and we taught them how to perform local dental anesthesia and dental extractions," she said.

Both groups helped as many patients as they could, in addition to educational outreach, teaching teachers how to apply fluoride varnish, and leaving toothbrushes and toothpaste to distribute.

"Overall, this was an outstanding experience, and I hope to go again and bring residents along if possible," Dr. McLaren added. ♦

Welcome

Two Board Members



R. Ivan Lugo, DMD, MBA

has been elected to the Eastman Dental Center Foundation Board of Directors, where he brings a wealth of experience and passion for integrating healthcare services, education, leadership and advocacy for equality in health and education.

Dr. Lugo serves as the dean of Health Sciences for the I LEAD Charter School in Reading, Pennsylvania and as the chief learning officer at the Hispanic Dental Association, where he previously served as chief executive officer.

He is also the founder and senior vice president of the Reading Innovation Lab, which helps a network of providers and innovators to create an independent design-think accelerator tank for curating sustainable human-centered innovations in healthcare.

Previously, Proctor & Gamble Company recruited Dr. Lugo, where he led the North America Professional and Scientific Relations group in the Global Research and Development Division for five years.



Pamela Den Besten, DDS, MS

is professor in the Department of Orofacial Sciences and director of the Center for Children's Oral Health Research, and co-directs the PhD and DDS-PhD program in Oral and Craniofacial Sciences at the University of California, San Francisco.

She served as Chair of the Pediatric Dentistry Department at Eastman Dental from 1992-1995. She then joined the faculty at the University of California San Francisco as chair of the Pediatric Dentistry Division.

Her significant scientific contributions are in understanding the mechanisms by which fluoride affects enamel formation. More recently her laboratory has focused on understanding how enamel is a biomarker for inherited diseases and environmental stress during critical periods of development.

As a clinician, she is interested in research that can improve children's oral health, and is an active collaborator on a number of studies to identify risk factors for early childhood caries, and strategies to reduce the incidence and effects of dental disease in children. ♦



Resident Credits His Preceptorship for Success That Followed

During dental school in Egypt, Hossam Abdelsalam volunteered with the local Rotary club, supporting the various charitable events. One year, they marched downtown to help spread awareness about Down Syndrome day.

“It was at this moment, I thought we need to do more for this population,” Hossam recalled. **“The awareness is very low about the many challenges this population faces.”** He continued his service with the Rotary and spent more time performing dental screenings and other volunteer work.

After graduating from Alexandria, the newly established dental school in Egypt in 2012, he spent a year working at a rural hospital where he did everything from hygiene to treating patients with complex needs, before accepting a faculty position at Alexandria.

After finishing his Board exams in 2015, he applied for the AEGD position at Eastman Institute, but instead was offered a three-month preceptorship in General Dentistry.

“I was grateful for the opportunity, because I was able to get a different exposure to so many procedures,” recalled Hossam, who had learned the very different British system for dental treatment in Egypt. “I observed sinus lifts, bone grafts, oral surgeries, full mouth rehabilitation, and learned how to document patient cases through taking photographs.”

Four days before Hossam was scheduled to return home, the department administrator suggested he check his email.

He had been accepted into the three-year AEGD program, where one year is spent in urgent dental care.

“I was teased for being the youngest one in my class,” Hossam said with a smile, **“but I felt**



Over time, EIOH students/residents have come from 96 countries

2019 At a Glance

- ➔ 148 trainees from 14 states and 39 countries
- ➔ 66 (45%) U.S. Citizens or Permanent Residents
- ➔ 21% from under-represented minorities
- ➔ 50% female
- ➔ Average age 33
- ➔ 20% pursuing additional degree
- ➔ 19% already have additional graduate or professional degrees
(➔ PhD, MBA, MPH, MS)

privileged, because others who get accepted to the AEGD program often have more professional experience.”

One of his favorite rotations was UR Medicine’s Complex Care Center, where he was able to tap into his previous experience treating patients with developmental disabilities.

“Treating patients with special needs makes any dentist feel like they are a special dentist,” Hossam said warmly. “Helping this patient population is very rewarding for me, and the patients and their families are very appreciative.”

During his residency, he was also part of a research team that is exploring the role of yeast in Early Childhood Caries. He also gained valuable experience in Eastman’s Howitt Urgent Dental Care clinic treating a wide variety of emergencies.

“After three years, I’m a different person. I’m a better clinician, I’m more confident, I’ve been published and I have a wide range of skills.

~ Dr. Abdelsalam

“After three years, I’m a different person,” he stated. “I’m a better clinician, I’m more confident, I’ve been published, and I have a wide range of skills. I have changed so much for the better. I’m so grateful for everything I learned at Eastman and want to thank everyone who believed in me since I was a preceptor, especially Dr. Malmstrom, Dr. Ghanem and Dr. Yunker.

“It’s common knowledge that the U.S. offers a top notch education,” he added. “But it’s so much more than that. It’s a lot of hard work, but it’s also a lot of fun. I have amazing friendships with people around the world.” ♦

Conferences



Allen A. Brewer Prosthetic Conference

Dr. Chochlidakis (left) and Dr. Carlo Ercoli (right) welcomed Dr. Dean Morton, who presented on Contemporary Implant Assisted Treatment Options for Patients with Advanced, Complex and Esthetic Needs.


Handelman Conference

Dr. Hans Malmstrom (left) and Dr. Eli Eliav (right) welcomed Dr. Joseph Kan, who presented on Creating Implant Restorations, Implant treatment Philosophies and Methodologies.



Oral Medicine Conference

Dr. Sharon Elad (far right) welcomed Dr. Praveen Arany (left) and Dr. Robert Convissar to teach about Lasers in Oral Medicine and Dentistry.

A photograph of the exterior of a brick building with a gabled roof. On the front of the building is a large sign that reads "UR MEDICINE URGENT CARE". Above the sign is a circular logo featuring a shield with a cross and the word "MELIORA". The sky is blue with some clouds.

URMC Emergency Providers Get Training on Dental Treatment

The University of Rochester Emergency Medicine Urgent Care Provider Group, comprised of MDs, FNP's, and PAs, recently learned ways to handle such oral health emergencies from Dr. Linda Rasubala, associate professor and assistant director of Eastman Dental's Urgent Care.

"They had specifically requested training on oral health emergencies," said Heidi Springer, MSN, director of URM's Emergency Medicine/ Urgent Care APP's and its Fellow Program. "We often see patients on weekends, evenings and holidays when routine services are not available. It is important that our management is evidence

based and helps to bridge the patients until they are able to be evaluated by the Eastman team."

During this interprofessional care collaboration, Dr. Rasubala gave a comprehensive presentation on managing common dental emergencies, such as trauma, infections, post-operative complications and broken dentures, or any other dental condition that requires immediate care.

Because 40 percent of the U.S. population does not attend primary dental care and relies on emergency care for dental treatments, these types of cases show up frequently in area urgent care clinics and hospital emergency departments.

Dr. Rasubala used many photos to explain the condition or technical term

that is used in dentistry while educating the providers on how to properly recognize the symptoms, accurately diagnose and appropriately determine the right treatment of each case/condition.

"They had great questions about medications, how to treat an avulsed or intruded tooth, or when it becomes completely displaced from its socket," Dr. Rasubala continued. **"What do you do with the tooth, how do you transport it, what to suggest to the patient and how should the patient follow up?"**

"The group truly enjoyed the photos so that they could better understand what they are looking at," Heidi said. They also really enjoyed how open Dr. Rasubala was and for providing them with great information. The feedback was exceptional." ♦



Dr. Konstantinos Chochlidakis (Prosthodontics '13, MS '18) served as the Scientific Program co-chair for the American College of Prosthodontists annual meeting, where he also presented about implant complications with full arch implant prostheses.

Drs. Alexandra Tsigarida and Konstantinos Chochlidakis (Prosthodontics '13, MS '18) were among 70 experts from 18 countries chosen to participate in the Oral Reconstruction Foundation's International Expert Meeting in Prague.



Dr. Alexandra Tsigarida was appointed to the Education Committee of the American Academy of Periodontology.



The Multinational Association of Supportive Care in Cancer presented two new awards to recognize outstanding work by a Study Group and an Outstanding Study Group Leader. **Dr. Sharon Elad** was awarded the 2019 Outstanding Study Group Leader, and the Mucositis Study Group she chaired was named the 2019 Outstanding Study Group.

Rosalie (Rose) Wratni joined EIOH as Director of Reimbursement. She has more than 25 years of experience in billing, collections and coding areas within UPMC and other healthcare institutions.



Dr. Bryan Frantz (Periodontics '87, MS '88) assumed the office of President of the American Academy of Periodontology in November, 2019.



Dr. Carlo Ercoli was a speaker at the 2019 Scientific Annual Meeting of the American Prosthodontic Society in Chicago, Academy of Osseointegration in Washington DC, and the Italian Academy of Prosthetic Dentistry

Dr. Kirty Pathak (General Dentistry '17) joined Winning Smiles Dental Care in Buffalo, NY.

Dr. Deborah New (Orthodontics '94) is the 2020 President of the New York State Society of Orthodontics.



Dr. Elizabeth Barbi (Orthodontics '15) became partners with **Dr. Littlejohn**. Littlejohn & Barbi Orthodontics is located in Waterloo, NY.



Dr. Dorota Kopycka-Kedzierawski (GenDen '02) has been named director of EIOH's newly established Clinical and Translational Research Core.

Eastman Institute has new Memorandum of Understandings with universities in Qingdao, China, Krakow, Poland and Manipal, India.

Dr. Bruce Haskell (Ortho '75) was given the Distinguished Clinician Award by the Louisville Dental Society at the 2019 Annual Meeting.



After 35+ years of service, **Bruce Bates** stepped down from the Eastman Dental Foundation Board.



Drs. Hans Malmstrom and **Yanfang Ren** were invited to lecture at a continuing dental education conference for dentists in Lhasa, Tibet, organized by the Chinese Dental Practitioners Association.

Dr. Chris Roberts (Ortho '87) is the 2020 American Association of Orthodontists president.



Dr. Gisli E Arnason (Ortho '07) became an active member of the Angle Society of Europe after a seven-year process of presenting 10 cases and two scientific oral presentations at the annual meetings in Austria. (Pictured with his sponsor Dr. Thordarson)



Holly Barone received an ADA Foundation Access to Oral Health Care for People with Special Needs and a grant from the Mother Cabrini Foundation to support teledentistry services to serve people with special needs.



Dr. David Fraser (Perio '17) received the Caton Fellowship.



Dr. David Levy is the 2019 Award of Merit recipient from the Seventh District Dental Society

URMC Board Excellence Award



2019 - **Linda Lipani**, Registrar and Director of Student Affairs



2020 - **Galina Torres**, AEGD Sr. Operations Administrator



Dr. Antonio Calascibetta (GenDen '17) opened Celestial Dental in Rochester, NY.



Dr. Francesca Pietri (Ortho '21) married Eduardo Elizalde November 16, 2019 in Miami, Florida.

**Stay connected
with Eastman
anytime,
anywhere.**



**Let us know your news! Contact
Karen_black@urmc.rochester.edu**



Dr. Chris Baker (OFF '14, Ortho '16) and his wife Margot welcomed Liv Dunphy on November 8, 2019.



Dr. Karthik Kommuri (OFF '19 Ortho '21) and Komala welcomed Nina on Nov. 5, 2018.



Dr. Elizabeth Barbi (Ortho '15) and husband Dr. Joseph Russo welcomed Vera Elizabeth May 6, 2019.



Dr. Oriana Ly-Mapes (Pedo '12) and husband Dr. Barton Mapes welcomed Clara Esther Januray 24, 2020.



Dr. Jared Roberts (Pedo '20) and his wife Crystal Roberts welcomed baby Reese September 16, 2019.



Dr. Maureen Wood (Ortho '12) and husband Blake Petty welcomed Stena Rose on May 29, 2019.



Dr. Isamar Rivera Ramos (GenDen '14, PhD '15, Pedo '16) and husband Jose G. Perez Ramos (MPH, '15, PhD, '19) welcomed son Francisco Antonio Pérez-Rivera June 6, 2019.



Dr. Joo Hyoung Park (Pedo '21) welcomed son Jason June 30, 2019.



Dr. Lisa Kulig (Pedo '20) and husband Gage Kulig welcomed their second son, Cy, on July 21, 2019



Dr. Jessica St. Martin (Ortho '21) and husband Nathan welcomed baby Eleanor on June 19, 2019.



G. Robert Witmer, Jr. ('59), who passed away August 18, 2019, was a cornerstone of the EDC Foundation Board for four decades.

Initially joining the Board in 1976, he continued to serve on the newly formed Eastman Dental Center Foundation Board when Eastman merged with the University in 1997. He served as Foundation Board president from 1989 -1990. Bob once said that he joined the EDC Board because of its important part Rochester's rich history and how Eastman Institute fulfills a national and international leadership role in the field of dentistry.

"His leadership as both a member and chair helped the Eastman Dental Center Foundation Board to continuously expand its impact and achieve its mission," said Dr. Bill Calnon, Board president. "Bob always presented himself as a true gentleman. His ability to argue his perspective while encouraging rich debate was his trademark on our Board. We have lost a colleague, mentor and a close friend. This Board will continue to follow Bob's ideals and, through its future actions, will further his enduring legacy."

Bob was deeply committed to community service as highlighted through his work with both the University of Rochester and the Rochester Rotary club. He joined the University Board of Trustees in 1979, received the Hutchison Medal in 2008, and the George Eastman Medal in 2016 in recognition of career achievements and service to the University and Rochester-area communities. In 2013, Bob received the Rochester Rotary Award, the oldest civic award given in Rochester for those who personify "Service Above Self." ♦

Gwendylyne L. Terriss (Pedo '69, MS '71) passed away October 2, 2018.

Ella E. Armstrong passed away February 17, 2019 at age 94.

Josephine Formoso Lolacono passed away on May 14, 2019 at age 98.

Paulene Canty passed away May 30, 2019 at age 89.

Roveletta H. "Rovie" Huiatt passed away June 22, 2019 at age 82.

2019

Publications

Abduljabbar, T, Vohra, F, Ullah, A, Alhamoudi, N, Khan, J, & Javed, F (2019) Relationship between self-rated pain and peri-implant clinical, radiographic and whole salivary inflammatory markers among patients with and without peri-implantitis. *Clinical Implant Dentistry and Related Research*

Akram, Z, Alqahtani, F, Alqahtani, M, Al-Kheraif, AA, & Javed, F (2019) Levels of advanced glycation end products in gingival crevicular fluid of chronic periodontitis patients with and without type-2 diabetes mellitus. *Journal of Periodontology*

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

Al-Delayme, RMA (2019). Preservation of keratinized gingiva around dental implants using a diode laser when uncovering implants for second stage surgery. *European Oral Research*

Al-Delayme, RMA, Alnajjar Z, Alsamaraie SAI, Elnashef S, Arab L, Yassin A, . . Al-Khen, M (2019) The direction of double-jaw surgery relapse for correction of skeletal class III deformity: Bilateral sagittal split versus intraoral vertical ramus setback osteotomies. *Journal of Maxillofacial and Oral Surgery*

Al-Delayme, RMA (2018) A platelet rich plasma (PRP) and bovine xenograft combination placed in a jaw bone defect after surgical removal of a compound odontoma associated with an impacted lower canine using piezoelectric surgery: A case report. *Clinical Cases in Mineral and Bone Metabolism*

AlHarthi, SS, BinShabaib, M, Akram, Z, Rahman, I, Romanos, GE, & Javed, F (2019) Impact of cigarette smoking and vaping on the outcome of full-mouth ultrasonic scaling among patients with gingival inflammation: A prospective study. *Clinical Oral Investigations*

Alqahtani, F, Alqahtani, M, Albaqawi, AH, Al-Kheraif, AA, & Javed, F (2019) Comparison of cotinine levels in the peri-implant sulcular fluid among cigarette and waterpipe smokers, electronic-cigarette users, and nonsmokers. *Clinical Implant Dentistry and Related Research*

Alqahtani, F, Alqhtani, N, Alkhtani, F, Divakar, DD, Al-Kheraif, AA, & Javed, F (2019) Efficacy of mechanical debridement with and without adjunct antimicrobial photodynamic therapy in the treatment of peri-implantitis among moderate cigarette-smokers and waterpipe-users. *Photodiagnosis and Photodynamic Therapy*

Al-Shammery, D, Michelogiannakis, D, Ahmed, ZU, Ahmed, HB, Rossouw, PE, Romanos, GE, & Javed, F (2019) Scope of antimicrobial photodynamic therapy in orthodontics and related research: A review. *Photodiagnosis and Photodynamic Therapy*

Al-Shammery, D, Michelogiannakis, D, Rossouw, E, Romanos, GE, & Javed, F (2019). Influence of psychological stress exposure on orthodontic therapy: A comprehensive review. *Journal of Investigative and Clinical Dentistry*

Ariyawardana, A. Cheng, KKF. Kandwal, A., ... Elad S; Mucositis Study Group of the Multinational Association of Supportive Care in Cancer/ International Society for Oral Oncology. (2019) Systematic review of anti-inflammatory agents for the management of oral mucositis in cancer patients and clinical practice guidelines. *Supportive Care in Cancer*

Att, W, Chen, YW, & Papaspyridakos, P (2019) Registration of patient-relevant references in edentulous jaws using intraoral scanners: Simplification of the clinical procedure. *The International Journal of Esthetic Dentistry*

Benoit, DSW, Sims, KR, Jr, & Fraser, D (2019) Nanoparticles for oral biofilm treatments. *Acs Nano*

BinShabaib, M, ALHarthi, SS, Akram, Z, Khan, J, Rahman, I, Romanos, GE, & Javed, F (2019) Clinical periodontal status and gingival crevicular fluid cytokine profile among cigarette-smokers, electronic-cigarette users and never-smokers. *Archives of Oral Biology*

Bowen, J, Al-Dasooqi, N, Bossi, P, ... Elad S.; Mucositis Study Group of the Multinational Association of Supportive Care in Cancer/ International Society of Oral Oncology (2019) The pathogenesis of mucositis: Updated perspectives and emerging targets. *Supportive Care in Cancer*

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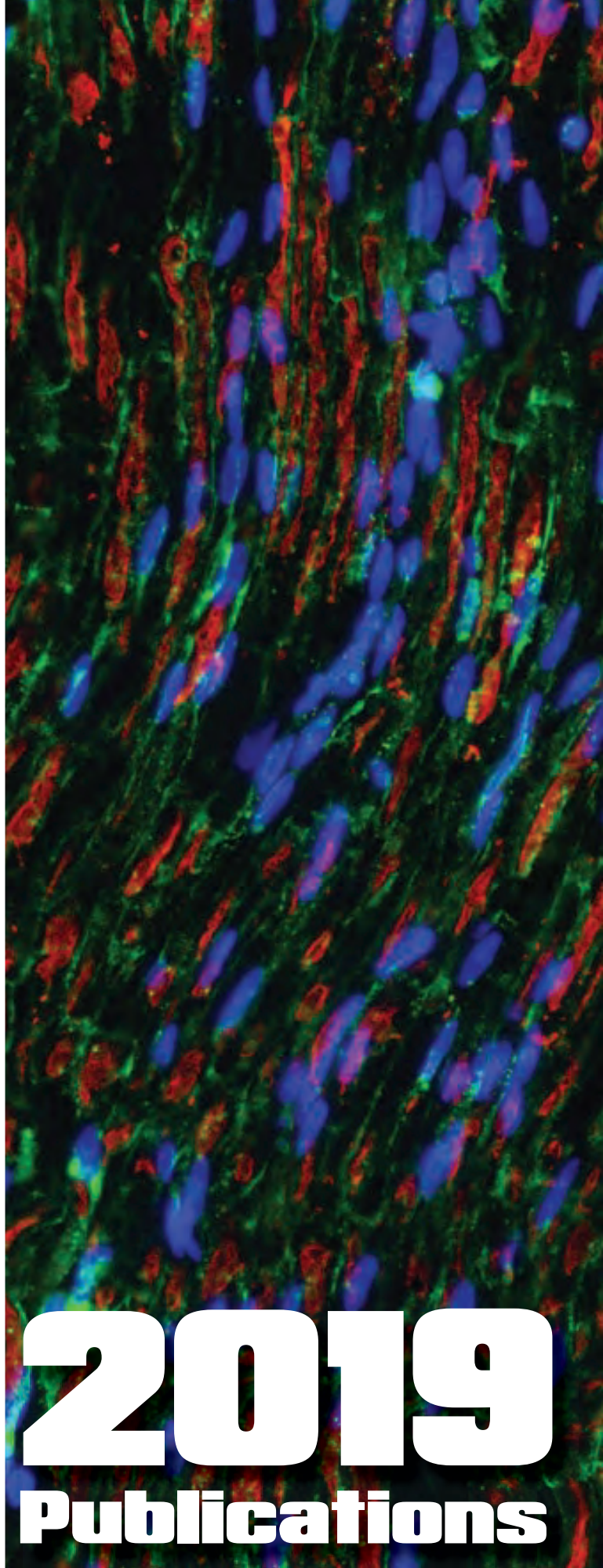
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