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MASO Journal

Autumn 2020

Middle Atlantic Society of Orthodontists



2020 MASO Virtual Annual Session

Friday, September 11

**Annual Business/
Membership Meeting**

12:30 - 1:30 PM



Friday, October 23

**Debut of On-Demand
Educational Webinars**

8:00 AM



An aerial photograph of the Wyndham Grand Rio Mar Puerto Rico Golf & Beach Resort. The image shows a large, multi-story hotel building with a curved facade and numerous balconies. The resort is surrounded by lush tropical landscaping, including many palm trees and green lawns. In the foreground, there are several swimming pools with blue water and lounge chairs. A sandy beach is visible on the right side of the image, meeting the turquoise ocean. The overall scene is bright and sunny, suggesting a warm, tropical environment.

Save the Dates for the

2021 MASO Annual Session

November 4-7, 2021

**Wyndham Grand Rio Mar Puerto Rico
Golf & Beach Resort**

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POOL AT WYNDHAM GRAND RIO MAR PUERTO RICO GOLF & BEACH RESORT

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MISSION STATEMENT

The Middle Atlantic Society of Orthodontists, a constituent of the American Association of Orthodontists, shall promote ethical and quality orthodontic care while advocating and providing a voice for our members, components and educational institutions.



PRESIDENT'S MESSAGE

Dr. Tarun (Ty) Saini • tysaini@yahoo.com

Dear Friends,

The death of George Floyd and the subsequent protests have given us so much to reflect upon. At the very core of this conversation is the respect for human life and dignity.

MASO, like many other AAO Constituents, shares a diverse membership. When we consider not only ourselves, but our educators, residents, our staff and the patients we are privileged to treat, it is a wonderful and beautiful collective. MASO leadership, in my humble opinion, reflects that diversity and continues to strive for even more. It has been a part of our Board discussions, advocated for in our Journal and continues to evolve in our current strategic planning process.

The MASO Board stands against injustice. We stand shoulder to shoulder with those who support social justice and non-violence. We are concerned for the health and well-being of our members and their families.

Certainly these can be difficult conversations as we try to sort through our own feelings and beliefs. We need to find the courage to face reality, the commitment to listen to and understand others and the perseverance to see it through, for it is a long road ahead of us. Speaking of talking the talk and walking the walk, I am reminded of our esteemed Past MASO Editor, selfless AAO volunteer and educator at the University of Maryland, Dr. Bob Williams. As a white, male college student in 1965, he completed the 54-mile civil rights march from Selma to Montgomery, Alabama. I would love to ask him about that experience and how it influenced him for the rest of his life. His morality and the ethical values that many of you demonstrate, give me strength and hope that we are capable of so much more.

Orthodontists are leaders and pillars of their communities – doctors that give so much back to the ones we treat and the ones we may never meet. I am so proud to be a part of such a highly respected group. As a community of healthcare professionals, let us work together to build a brighter, more inclusive and safer environment for all. ■



TRUSTEE'S REPORT

Dr. Steven Siegel • ssiegel@aao.org

As I am writing this report there are nationwide demonstrations sparked by recent events including the killing of George Floyd by Minneapolis police, the racist tirade of young white women against a peaceful African American man in Central Park and the vigilante murder of Ahmaud Arbery. These events are appalling and a reflection of the systemic racism and injustice that is experienced routinely by African Americans in our society.

We are so fortunate to live in the United States of America. We are blessed to live in such a rich and diverse democracy. We are further privileged to share a wonderful profession that allows us to make a meaningful difference in the lives of so many of our patients. As orthodontists, we are well respected leaders in our communities. I encourage each of you to work to improve the communities in which you live and practice, and hope that though our actions, we can be a force for the change needed to bring about social justice for all.

COVID -19 Task Force

In response to the current COVID-19 pandemic, the AAO formed an AAO COVID-19 Task Force. The COVID-19 Task Force, comprised of a diverse and experienced group of individuals, includes orthodontists, orthodontic educators, members of the AAO Legal Department, and experts in the areas of infection control, infectious diseases, and office design. I was assigned to the task force. The group has held a number of meetings and is continuing to work to develop additional resources specific to our AAO members. The Task Force reviewed pertinent literature in regard to a variety of topics, including aerosolization in

practice and PPE recommendations from the CDC, OSHA, and ADA. The position of the task force early on was not to separate orthodontists from general dentists and other specialists, but to base recommendations for PPE and work place/engineering controls on aerosol generating procedures (AGP) and non-aerosol generating procedures (NAGP). While final recommendations from the Task Force are forthcoming, interim suggestions as orthodontic offices started to reopen were sent to our members. Generally speaking, orthodontists should follow current guidelines as set forth by the CDC, OSHA, and other federal/state regulatory agencies. These can be found at aaoinfo.org/virus. Orthodontists should use their own professional judgement when deciding how to best implement current guidelines in their offices. The AAO has been in close communication with the ADA throughout this pandemic. The AAO has also communicated with other dental specialty groups, elected officials and representatives of federal regulatory agencies such as OSHA and the CDC and continues to advocate on behalf of our members.

At-Large Trustees

In an effort to increase diversity and inclusion and advance the changes needed to better reflect AAO member demographics in governance, the AAO Board of Trustees submitted a resolution to the House of Delegates directing the Board of Trustees to select up to three (3) at-large Trustees, selected based on demographic diversity or expertise.

The AAO House of Delegates met virtually on May 1, and adopted resolution 04-20 RC, the bylaws amendment needed to

CONTINUED ON PAGE 3

implement this initiative. A call for applicants was disseminated to our members and applicants were evaluated by a Board At-Large Trustee Committee. Interviews for the positions were conducted on June 5. Two members were offered and accepted the positions.

The AAO is pleased to welcome two new, at-large trustees to the Board: **Dr. Alex Thomas** of Greer, South Carolina and **Dr. Dale Anne Featheringham** of Dublin, Ohio.

Both Trustees will serve for up to three years and have all of the rights and responsibilities of the other Constituent elected Trustees. Dr. Thomas, as a new and young member, and Dr. Featheringham, having served the AAO in many capacities, will bring perspectives and ideas that are expected to enhance Board governance and member representation.

I am very excited to work with both Drs. Thomas and Featheringham.



Alex Thomas, DMD, MS



Dale Anne Featheringham, DDS, MS, MBA

Special Committee on Women Orthodontists (SCWO)

This year I am serving as Board liaison to the Special Committee on Women Orthodontists. Our own **Dr. Kathy Marshall** is a member of this task force. The mission of the committee is to:

1. Work to support and inspire women orthodontists by helping to develop tools and pathways to leadership so that women are contributing as AAO trustees, delegates and council members.
2. Identify obstacles for involvement in leadership and make recommendations to our current leaders.
3. Encourage changes in governance, communication, and recruitment that will help shape the future of AAO leadership to reflect the diversity of its membership.
4. Strive to recognize the unique needs and issues that face women orthodontists and make recommendations to improve the value of membership in the AAO for all members.

The SCWO agreed to recommend that its scope be broadened to include overall inclusion and engagement, while preserving its original charges, and that it be renamed the "Committee on Inclusion and Engagement." The SCWO formed a Subcommittee on Inclusion & Diversity, of which Dr. Marshall is a member. The subcommittee has evaluated ways to best achieve its objective and the SCWO will be making recommendations to the Board of Trustees this summer.

Council on New and Younger Members (CONYM)

I will serve as the Board liaison to CONYM this year and look forward to working with MASO's new representative to

the council, **Dr. Lauren Wiese**. I would like to thank **Dr. Lauren Wulc** who completed her term of service on CONYM as MASO's representative.

The House of Delegates passed resolution 05-20 BT (SA1-PCSO) Substitute for Bylaws Amendment Article VI - Board of Trustees, G. Powers and Duties, 1. Powers, g.

This resolution now directs that members from CONYM or a new and younger member be appointed as an advisor with full voting rights on all councils/committees.

Council on Communications (COC)

I served as Board liaison to the COC this past year. I would like to thank our MASO representative to the Council, **Dr. Jean McGill**, who served as Chair of the Council this past year and has completed her term of service. I would also like to welcome **Dr. Larry Wang**, our new representative to the COC. Larry will do an outstanding job and represent MASO well.

The *Happy Mouth Now* campaign, taking a satirical approach in addressing the risks of DTC treatment models while continuing to educate consumers on the importance of seeing an orthodontist for their orthodontic treatment, is being launched.

The House of Delegates passed resolution 03-20 COC (S5-BT) Substitute for CAP Budget which resolved that the Consumer Awareness Program budget be funded to \$5 million for the coming year through a \$300 per member assessment for all U.S. and Canadian active members (active academic members excluded) and the remainder from excess liquid reserves, when available.

This is a \$500 reduction from last year's assessment and should help provide some financial relief to our members while maintaining the momentum that our CAP has achieved.

Committee on Conferences (CCon)

The Board of Trustees voted to form an expertise/interest based standing committee to plan the AAO Annual Session and Winter Meeting. MASO's Dr. Sheldon Seidel will serve on the committee.

The mission of CCon is to work to advance the orthodontic profession and the mission of the AAO by producing extraordinary meeting experiences. It is the goal of the Board by discontinuing the formation of Trustee/Officer directed planning committees, that CCon working with AAO staff will develop best practices, data bases of speakers, and continuity to ensure that our meetings continue to be preeminent orthodontic events each year and meet the needs of our members.

AAO Annual Session 2020

It was very unfortunate but unavoidable that the 2020 AAO Annual Session, scheduled for Atlanta, had to be cancelled. It was clearly the correct decision. With remarkable support from our AAO staff, a virtual AAO Annual Session took place on May 2 and 3. On May 3, there were 11,140 registrants (10,162 members and 978 non-members).

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TRUSTEE'S REPORT

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Attendance was outstanding with many lectures attended by between 3,500 and 4,500 attendees. Feedback was very positive. The success of the virtual annual session may serve as a model for future virtual programs and for creating a greater virtual component to future in-person meetings.

I look forward to, and hope that we can meet in Boston for the 2021 AAO Annual Session.

American Association of Orthodontists Foundation (AAOF)

MASO's own **Dr. Orhan Tuncay** will serve this year as president of the Board of the AAOF. I will be serving as an AAO Ex-Officio Director to the AAOF Board this year.

The Mission of the AAOF is to advance the orthodontic specialty by supporting quality education and research that leads to excellence in patient care. Foundation funding ensures the future viability of the specialty by investing in the next generation of educators and researchers.

Please consider supporting the AAOF by pledging or making it a part of your estate plan.

As always, I appreciate the confidence expressed through my selection as your AAO Trustee. It is a responsibility I take very seriously. Through this very difficult time for us all personally and professionally, I am buoyed by the way our members have come together in support of one another. I see a great future ahead for our profession. ■



EDITORIAL

Dr. Normand Boucher
nsjboucher@gmail.com

COVID-19: Change of the Orthodontic Landscape

Moses Maimonides (1135-1204)

"May neither avarice, nor miserliness, nor thirst for glory, nor for great reputation engage my mind; for the enemies of truth and philanthropy could easily deceive me and make me forgetful of my lofty aim of doing good to my patients"

The Pandemic and the Orthodontic Landscape

An important side of a professional life is the ability to adapt and change. As we return to practice and teaching, there are signs that the pandemic might have a lasting impact on orthodontic education, and practice models.

Almost overnight, orthodontic residency programs have gone through groundbreaking change. Educators quickly mastered "Zoom" presentations. As a result of stay at home mandates, young orthodontic minds were nurtured with access to virtual learning platforms. By all accounts, the outcome was favorable and it is likely that going forward residents will receive more of their didactic education virtually.

With the restrictions of social distancing many of our local, regional, and national meetings were held virtually. Many of us concluded that avoiding air travel and the expense of a hotel was a favorable outcome. Is it possible that professional development has undergone a permanent transformation which will force our component, constituent, and national organizations to reconsider how to sponsor professional development? Virtual meetings have the potential to reach a greater number of our members, with more information, at less cost, and with less impact on the environment. On the corporate side, sponsorship and trade show participation at component and constituent meetings have been on the decline for several years. Major companies are holding their own virtual meetings with their clinical salesmen pitching their products. Unfortunately, this trend will decrease association meeting revenues and will exacerbate the need for revised strategic plans to ensure the viability of our organizations.

With practice management, the implementation of a higher standard of PPE and safe practice protocols at first blush seemed onerous. Nevertheless, it might be helpful to remember that it was 1984 when the threat of HIV and hepatitis for all health care providers resulted in the simple practice of hand washing between patients to be supplemented by the use of gloves for all intraoral procedures. What seemed like a big imposition quickly became the new normal. Having practiced with the new COVID-19 protocols for the last few weeks most orthodontists I have spoken to feel that it is fundamentally a step in the right direction... even beyond the pandemic.

I have several observations related to the recent return to work. The scheduling of orthodontic patients for most orthodontists has been ramped up carefully with fewer patients on our daily schedules to maintain social distancing. With the elimination of reception areas/waiting rooms and parents restricted to the parking lot, it has been refreshing to see many adolescents presenting for their appointments with a greater sense of independence.

On a different note, one of the pleasant surprises has been the expression of gratitude from many patients when being seen again and their perspective that the orthodontist is in fact a front line health care provider during this pandemic. Is it time to reconsider quality over quantity as we set practice goals for the future?

Getting the basics of your orthodontic career vision in place with long term goals will help weather change and emerge renewed. ■

Editorials represent the opinions of the author(s) and do not necessarily reflect the views of the Middle Atlantic Society of Orthodontists or the American Association of Orthodontists.

MASO extends its congratulations to **Dr. Jean Edouard Asmar** on being the recipient of the Gerald A. Devlin Award. Dr. Asmar will be a guest of honor at the 2021 MASO Annual Session held in Puerto Rico.

GERALD A. DEVLIN AWARD Dr. Jean Edouard Asmar



Dr. Jean Edouard Asmar immigrated to the United States with his family when he was 16 years of age after being intimately involved in the civil war that ravaged his native country, Lebanon. Undeterred by the tremendous upheaval and highly motivated to succeed in his

new environment, Dr. Asmar took the GED exam and the College Level Entrance Proficiency exams, which ultimately resulted in a full academic Presidential scholarship at The University of Miami where he earned Bachelor of Science degrees in Biochemistry and Marine Science/ Biology and a Bachelor of Arts degree in French, *summa cum laude*.

Although Dr. Asmar had the opportunity to study medicine, fortunately for dentistry, he accepted a position at the University of Pennsylvania School of Dental Medicine, where he not only excelled in the didactic curriculum, but was quickly recognized by his mentor, Dr. Richard S. Tobey, Jr, as having exceptional clinical skills. Upon graduation, he maintained a private practice specializing in complex full mouth reconstruction and periodontal prosthesis cases. During that period, he served as a clinical associate teaching junior and senior students at the University of Pennsylvania School of Dental Medicine.

In his quest to become a master clinician, Dr. Asmar decided to further his education. He began his orthodontic training at Boston University Henry M. Goldman School of Graduate Dentistry under the tutelage of the legendary Dr. Anthony A. Gianelly. To this day, Dr. Asmar takes pride in the relationship he enjoyed with Dr. Gianelly and is very clear that “Dr. G.” was instrumental in his success.

Dr. Asmar has had a rich and rewarding orthodontic career since he established his private practice in Washington, D.C. in 1991.

He has generously given his time and expertise lecturing extensively around the world to orthodontic societies and residency programs. Closer to home he served as a faculty member for close to twenty years at the Children’s National Medical Center AND at the Washington Hospital Center.

Dr. Asmar has a long history of volunteerism supporting our important orthodontic organizations. He has held several executive positions with the District of Columbia Society of Orthodontists and Middle Atlantic Society of Orthodontists, culminating with his Presidency in 2016-2017. Always willing to serve, he has been appointed to a multitude of committees at the component and constituency level while representing MASO as a delegate to the AAO. He is a fellow of the Pierre Fauchard Academy, International College of Dentists and the American College of Dentists.

He has received many awards and honors in recognition of his accomplishments in teaching and excellence in clinical practice including being elected to “The Leading Physicians of the World” in 2010 and since being selected annually as a top dentist (in Orthodontics) by the organization.

Dr. Asmar’s pride and joy is his son, Edouard, a graduate from Stanford University with a Bachelor of Science degree in COMPUTER SCIENCE in 2018 and a Master’s degree in history in 2019.

On a personal note, Dr. Asmar is particularly happy to share this award with his love, Dr. Valeria Aparecida Bersiliera who has been incredibly supportive of the many dimensions of his professional life.

In closing, the Gerald A. Devlin Award is presented to a candidate who has been of “significant service or contribution” to MASO or a significant contributor to the orthodontic health of children and adults.

Dr. Asmar by far epitomizes the criteria established for this award. ■

Congratulations Dr. Asmar!

The 2020 Kress Resident Research Award consists of a plaque, a check in the amount of \$1,000, and complimentary registration to the MASO Virtual Annual Session. Congratulations Dr. Truong!

KRESS RESIDENT RESEARCH AWARD Dr. Cassie Truong



Dr. Cassie Truong is the recipient of the 2019-2020 Kress Award. She conducted a study on the effect of rapid palatal expansion on the internal and external aspects of the structure of the nose. Because of the anatomic relationship of the maxilla and the nasal cavity there has been

a growing interest in the orthodontic community to better understand the effect of expansion on nasal anatomy and its impact on the physiology of the airway. It is not uncommon for an orthodontist to have to allay parental concerns related to distortion of the anterior portion of the nose; specifically widening of the alar base as a result of palatal expansion. Most mature orthodontists who have followed patients for several years have anecdotally concluded that these changes are reversible.

As a result of Dr. Truong's study these conclusions have been validated. Her explanation for this expected outcome is that since the anterior portion of the nose is largely elastic cartilaginous tissues, over the long term the normal anatomy of the nose is restored. When compared to a control sample there is no evidence of change two to three years after expansion.

Moreover, her most significant conclusion concerns the posterior skeletal anatomy of the nasal cavity commonly referred to as the pyriform aperture. Dr. Truong's study concluded that compared to non-treated controls, the width of the pyriform aperture is increased by almost 10%. These findings are especially significant when we consider the physics of airway resistance in the nasal passageway. As most of us remember from basic physics, according to Pouseuille's law, the diameter of the nasal passages (airway) exponentially affects airway resistance. As a result of her study we can claim with confidence that orthopedic palatal expansion facilitates nasal

breathing and as a result possibly contributes to favorable facial growth.

AIRWAY RESISTANCE

- Poiseuille's Law

$$R = \frac{8 \times \text{length} \times \text{viscosity}}{\pi \times (\text{radius})^4} = \frac{P_B - P_A}{\text{flow}}$$

- The diameter of airway lumen and flow of gas into the lungs can decrease as a result of bronchospasm, increased secretions, mucosal edema, or kink in the endotracheal tube.

When the Education and Research Committee addresses their responsibility of selecting their recipient for the Kress Award, they consider the clinical and/or scientific relevance of projects as well as the quality of the manuscript. Based on these criteria, Dr. Cassie Truong easily fulfilled this expectation. She stands to be congratulated. ■



Congratulations Dr. Truong!

Addition by Subtraction

By: Ryan K. Tamburrino, DMD

The soul grows by subtraction, not addition.

- Henry David Thoreau

Gratitude has risen to be one of the more recent buzzwords of the world.

It comes in many forms via virtue signaling posts, zen memes, feel-good blogs, inspirational sounding lectures, hours of podcasts, or any number of books.

The implication among all the media forms is the same: *you shouldn't worry about what's going on around you or what may be bringing you down, and, instead, take a moment to be thankful and appreciate what you have.*

As much as I'd love all of us to quickly fix anything that ails us by reading the latest pick me up post, it's hard to think that a few paragraphs of inspiration are going to make us drop the weight of our mental baggage and instantly flip our anxieties, worries, and stress into a state of carefree happiness and blissful joy.

Frankly, because this sticky sweet "positivity" sentiment has been so overdone lately, whenever I hear someone lead with "gratitude", tell me "life is amazing", or imply I shouldn't worry about stressors and look on the bright side, I unconsciously give an immediate mental eye-roll, which is sad.

Don't misunderstand, I love "feeling good" and enjoy reading or listening to a motivating pep talk. I am fascinated by and have great respect for those who are brilliant with crafting their words of inspiration.

However, because I am an extreme realist, I know no one's life is perfect regardless of what I just heard and I still have to face my own world when it's over and they walk off the stage.

I always ask myself, "So what now? How did those words help ease what's currently on my mental plate?"

I've yet to see any zen imagery or hear any sage-sounding phrase that makes reality disappear...but taking the time to consume them does help me prolong dealing with what needs to be dealt with.

Pandemic notwithstanding, many of the books I've been reading lately have had a more personal, introspective vibe and have been focused on finding an improved mental state.

(Just FYI, I can assure you it has nothing to do with my recently turning 40.)

Earlier this year, I looked up a citation in a business book that subsequently caused me to go down a rabbit hole of learning more about personal change and the science of happiness via Amazon's "you may also like..." section. Funny how that works...

Anyway, of the 10 books I got, one of the clear winners for content and accessibility was Sonja Lyubomirsky's *The Myths of Happiness*.

Although she's a Harvard and Stanford trained Ph. D., She writes practically and in a non-academic style. That makes this

book super enjoyable to read without having to mentally strain to comprehend it.

One passage she wrote about appreciation quoted a research paper published in the Journal of Personality and Social Psychology, entitled "It's a Wonderful Life: Mentally Subtracting Positive Events Improves People's Affective State, Contrary to Their Affective Forecasts."

Translated for the rest of us, that loosely means: *to appreciate something or determine it's value, we should imagine subtracting it from our lives and see what life would be like without it.*

Would we still be ok, or would we not?

Instead of saying that we should blanketly feel "gratitude" and appreciate what we have (all encompassing), Koo and Lyubomirsky suggest we imagine our life *without* having or ever having experienced the one thing that's currently bugging us, and see what that would be like.

For example, maybe we think work currently stinks...but instead of focusing on the present overwhelming feeling, think about what life might have been like if we never took our current job? How would it have been different? Would we have had or been able to have the same experiences? What are all the good things that happened because of it? Could we live without it?

Maybe you're going through a rough patch with a spouse or one of your kids. Instead of wishing they currently weren't around, instead think about what things would you have missed out on over the years or would be missing out on in the future if they were never a part of your life?

By mentally eliminating one thing and seeing how life would change instead of trying to assimilate unrelated positives, we can narrow our mind's focus to the issue and make a path for resolution clearer.

If it's something you truly want to have or want to continue to have in your life, then work on fixing it!

If not, the answer is right there for how to solve it - eliminate it and move on!

At least for me, thinking of things in this smaller, segmented and chunked way evoked a much stronger "grateful" feeling and helped me realize the sum of the many good things a person or event brought to me previously clearly outweighed the one current negative.

Addition by subtraction might just be a perfect little mental trick we need right now.

Interested in reading more? Dr. Tamburrino writes a weekly column entitled Monday Morning Mojo that drops in your inbox every Monday at 6 AM EST. It can be about the quirks of life. It can be about the nuances of society. It can be about whatever is currently on his mind. You'll never know what's coming, except you can be assured it won't be about teeth! Sign up for free at www.tfortho.com/monday-morning-mojo-newsletter

CONSERVATIVE MANAGEMENT OF ANTERIOR OPEN BITE Dr. Sylvain Chamberland

Introduction

Skeletal open bite is characterized by excessive anterior and posterior dentoalveolar height, increased lower anterior facial height, steep mandibular plane, anterior open bite and a large gonial angle[1].

With the advent of the temporary anchorage system, molar intrusion exerted by miniscrews[1-3] or miniplates[4] can be considered a reasonable alternative to orthognathic surgery for the open bite malocclusion with vertical maxillary excess[3].

This case is an example of the use of temporary anchorage devices (TADs) to normalize the vertical dimension and to obtain a positive overbite.

Case Report

A 17-year-old patient consulted for a second opinion for the treatment of his anterior open bite. He had a phase 1 treatment consisting of a maxillary expansion and alignment of his anterior teeth from another orthodontist when he was 10 years old. He was offered a phase 2 treatment that would include bimaxillary orthognathic surgery.

Clinical examination revealed a class I occlusion with anterior open bite from premolar to premolar, mandibular incisor crowding and well-aligned maxillary incisors with a bonded lingual wire from canine to canine (Figure 1).



Figure 1. Intraoral photo showing anterior open bite, moderate crowding in the mandibular arch.

The lower anterior face height was excessive with a retrusive chin. There was significant mentalis muscle strain upon lip closure (lip incompetency in repose). The incisor display was within normal limits, but a reverse smile arc was noted.

The cephalometric analysis revealed a hyperdivergent skeletal pattern, short ramus, bimaxillary dentoalveolar protrusion and excessive lower anterior facial height with a ratio of 42/58 compared to a normal of 45/55.



Figure 2. Pretreatment extraoral photos showing excessive lower anterior facial height, retrusive chin, mentalis strain, flat smile arc.



Figure 3. Pretreatment cephalogram showing hyperdivergent skeletal patterns, short ramus and dentoalveolar protrusion.

The orthopantomogram (OPG) revealed condylar deformity, with both condyles showing flatness of the anterosuperior surface. There was a deep antegonial notch and impacted third molars (Figure 4). A tomogram of the condyles confirmed a concavity of the right condylar head and a small osteophyte on left condyle (Figure 5). This is a sequela of condylar resorption and explains the short ramus height, the retrusive mandible and the anterior open bite. The deep antegonial notch suggests compensatory growth at the gonial angle.



Figure 4. Pretreatment OPG showing deformed condyles, deep antegonial notches and impacted third molars.

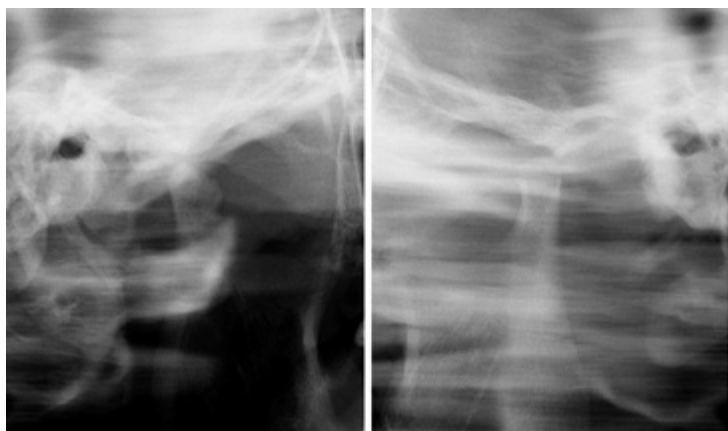


Figure 5. Tomogram showing concavity of the right condyle and osteophyte on the left condyle.

Treatment Objective

The clinical and radiological features indicated that this patient was at risk for further condylar resorption. Orthognathic surgery, frequently indicated in such skeletal discrepancy, is not a guarantee that condylar resorption would not continue. Therefore, the primary objective was to normalize the vertical dimension with a non-invasive approach.

The secondary objective was to resolve crowding and achieve a positive overbite and ideal overjet. The third objective was to obtain lip competency in repose.

The treatment plan included miniscrews in both arches to intrude posterior teeth, extraction of four premolars and a genioplasty to reduce the vertical height of the symphysis and create a better chin projection.

Treatment Progress

Molar bands with precision lingual attachments were placed on the 1st molars. SPEED brackets were bonded on all the remaining teeth. Preliminary alignment was done in segments, leaving out the lower anterior teeth because any alignment would have proclined the lower incisors. At 7 weeks into treatment, two (2) Tomas pin EP 6 mm (Dentaurum) were inserted buccally between the lower 1st and 2nd molars. The archwire segment was a .020x.020 niti. An elastomeric chain was engaged on the archwire mesial to the 1st molar and between the 1st and 2nd molars to achieve intrusion and a slight distalization force (Figures 6 A, B, C).



Figure 6. A, B, C: Progress at 7 weeks showing buccal TADs insertion and elastomeric modules for intrusion.

Two vector TAS 8 mm (Ormco, Orange, CA, USA) were inserted paramedian of the palatal raphe. E-links modules (TP Ortho, La Porte IN, US) were engaged from the lingual attachment to the TADs to provide an intrusive force.

A lingual .032 x .032 TMA arch and a transpalatal arch .032 X .032 SS were engaged in both arches (Figure 7). The lingual arch was constricted 2-3 mm to counteract the expansion tendency created by the buccal intrusive force while the TPA was expanded to counteract the constriction force created by the elastomeric modules.

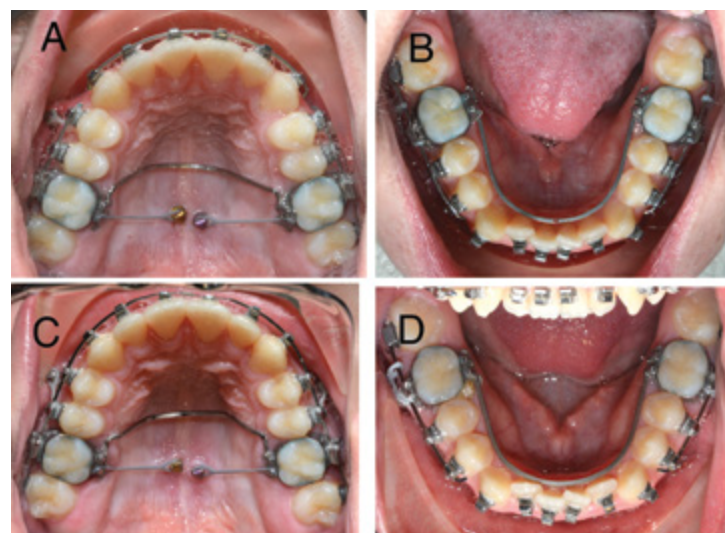


Figure 7. Occlusal view. A, Transpalatal arch .032 x .032 SS, paramedian palatal TADs and E-links modules. B, lingual arch .032 x .032 TMA. C and D: progress at 26 weeks.

A progress photo at 25 weeks shows a significant reduction of the open bite. The maxillary arch is levelled and a continuous arch wire was engaged. The elastomeric modules were kept in place to continue posterior intrusion and also avoid anterior extrusion.

The progress cephalogram at 25 weeks (Figure 8 A) into treatment show 2.5 mm of intrusion of the mandibular molars that allowed a significant counterclockwise rotation of the occlusal plane. With the 2.4 mm intrusion of maxillary molars, the lower anterior height decreased by 3.3 mm (Table 1-see page 16). The composite tracings depict the dental and skeletal changes (Figures 8 B, C, D). The profile was improved showing diminution of mentalis strain upon lip closure (Figure 8D).

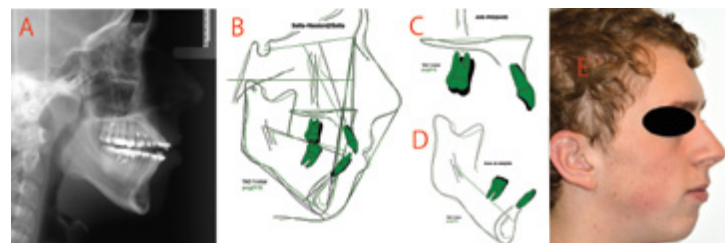


Figure 8. A, Progress cephalogram at 25 weeks. B, C, D, composite tracing of initial and progress cephalogram. E, Profile change shows reduction in mentalis strain.

CONTINUED ON PAGE 10

CONTINUED FROM PAGE 9

Figure 9, top row, shows progress at 61 weeks. Dual geometry .021 x .021 x .020 SS en masse retraction was engaged. Elastomeric modules were attached to the 2nd molars in the upper arch and the 1st molar in the mandibular arch. Progress photos at 104 weeks (Figure 9 bottom row) show closed extraction spaces. Full dimension .020x.025 SS arch wire was engaged. Class I canine relationship, normal overjet and overbite was achieved. A lower midline deviation to the right is noted.

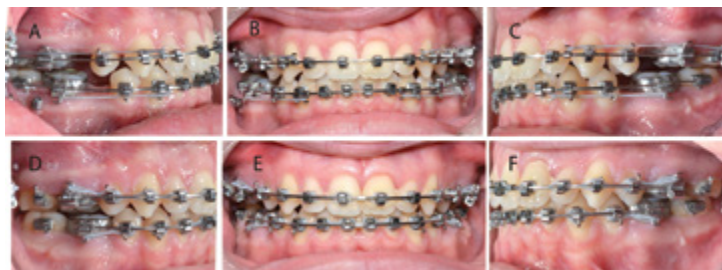


Figure 9. A, B, C: Progress at 61 weeks showing en masse retraction Hills dual geometry wire. D, E, F: Progress at 104 weeks. Full dimensional .020 x .025 SS wire is engaged.

The cephalogram and composite tracing shows the amount of anterior retraction that was achieved. The intrusion of the molars was stable during the retraction. If one compares the position of the mandible of Figures 8 B and 10 B, it appears that the mandible seems to have retruded. Mandibular superposition did not show any dimensional change (Figure 10D). Hence, we can assume that the mandible was postured slightly forward after the first stage of intrusion and the condyle moved back in the fossa after space closure. The profile view (Figure 10C) was significantly improved, but the chin remained slightly retrusive. The possibility of an advancement genioplasty was offered again and the patient accepted.

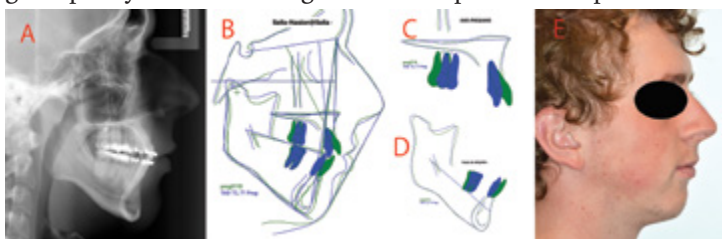


Figure 10. Cephalogram, composite tracing and profile view at 104 weeks.

Final Outcome

Figures 11 A, B, C show the occlusal outcome at debonding. Class I occlusion was achieved. The lower midline deviation to the right can be explained by the right condyle showing greater deformity than the left condyle (Figure 13). Slight opening of the extraction space occurred because elastomeric chains were not kept in place during the weeks after the genioplasty. The patient declined further attempt to close the space. The 20 months post treatment follow up shows that the occlusion has settled, but spaces had reopened distal to the laterals. The patient had broken his bonded lingual wire. He was offered a minor re-treatment, but he declined again. Nevertheless, the overbite remained stable.



Figure 11. A, B, C: Intraoral photos at debond. D, E, F: Follow-up at 20 months post treatment.

Figure 12 shows the cephalogram and the profile view at debonding, which was taken one month post genioplasty. The composite tracings show stability of the intruded maxillary molars. This is supported by the cephalometric data (Table 1-see page 16).

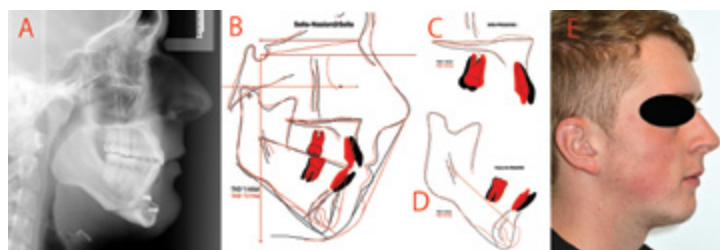


Figure 12. Cephalogram, composite tracing initial-final and profile view at debonding.

The panogram at debonding shows good root parallelism (Figure 13). Minor external apical root resorption is noted on the incisors and first premolars. The right condyle shows a dense cortical bone layer and loss of the concavity indicative of good healing. However, the condylar neck remains short. It explains lower midline deviation to the right (Figures 11 B, D).



Figure 13. OPG at debonding showing healing of the right condyle with good cortical bone.

Smile display at debonding shows an improvement. The smile arc is consonant with the lower lip (Figure 14).

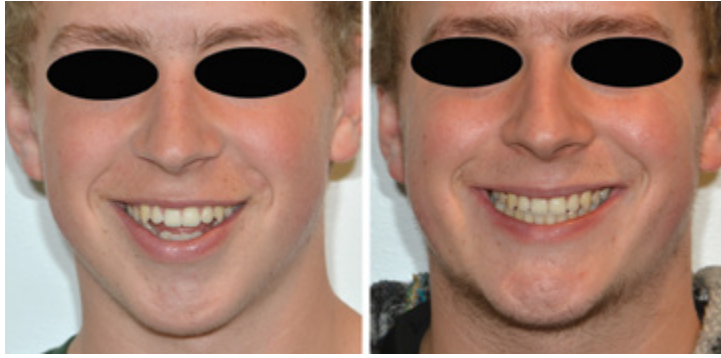


Figure 14. Extraoral photo of smile display. Left: smile display at baseline showing reverse dental arc. Right: Smile display at debonding showing consonant smile arc.

Discussion

This case is a very good example of the benefit of using TADs to achieve double arch intrusion. An invasive orthognathic surgery was avoided, minimizing the risk of further condylar resorption. Indeed, the OPG at debonding indicates healing signs of the right condyle (Figure 13) and follow-up photos at 20 months reveal a very stable occlusion (Figures 11 D, E, F).

A recent study shows that double arch intrusion is the treatment of choice when a patient expresses an eagerness to change excessive facial height[5]. Scheffler et al. concluded that TADs can be considered a reasonable alternative treatment to orthognathic surgery for anterior open bite[3]. A recent study at the University of Washington compared the treatment of open bite malocclusion without TADs, with TADs in the maxillary arch and TADs in both arches[6]. They concluded that beneficial vertical change can be obtained with the use of skeletal anchorage in open bite patients, particularly when it is utilized in both upper and lower arches. Most notable changes are seen in lower face height and total anterior face height while limiting incisor extrusion.

When the vertical height at the symphysis or a retrusive chin persists, a functional genioplasty is an adjunct that can be used to optimize treatment goals and achieve ideal vertical and sagittal skeletal relationship. It helps to improve facial convexity, obtain lip competency in repose and improve smile display[7].

Bibliography

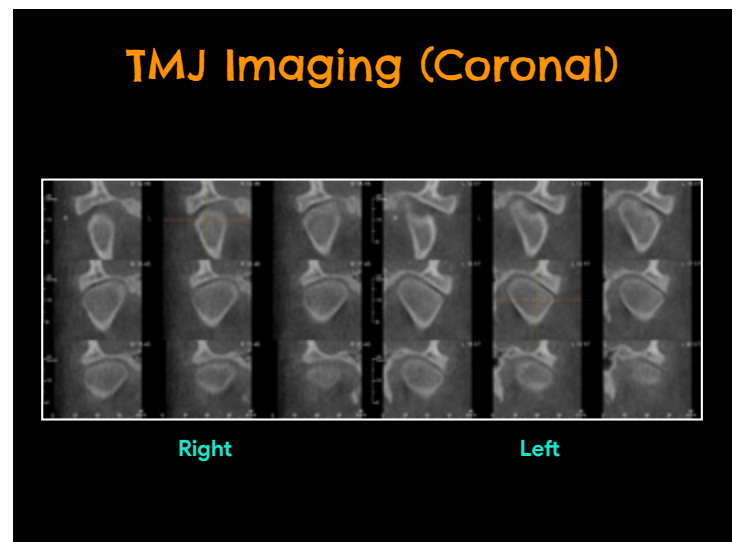
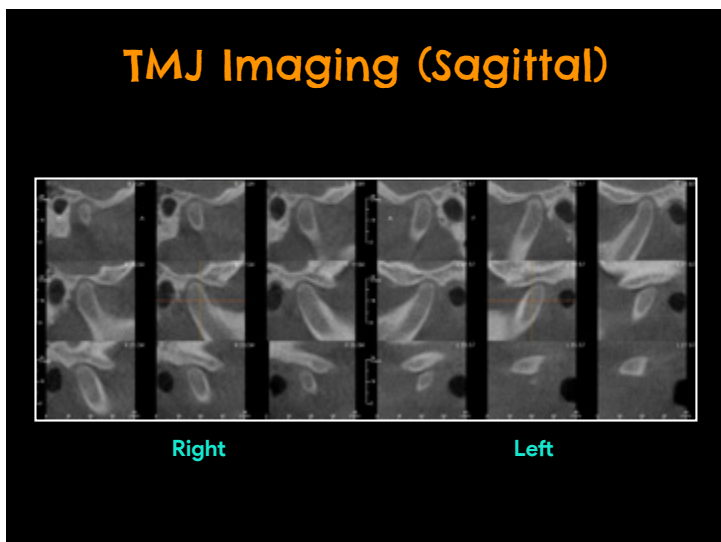
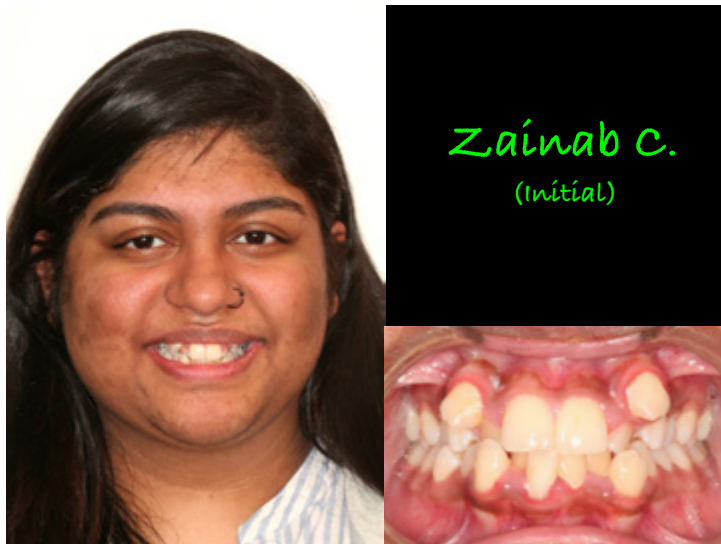
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7. Chamberland, S., W.R. Proffit, and P.E. Chamberland, Functional genioplasty in growing patients. *Angle Orthod*, 2015. 85(3): p. 360-73. ■

TABLE 1

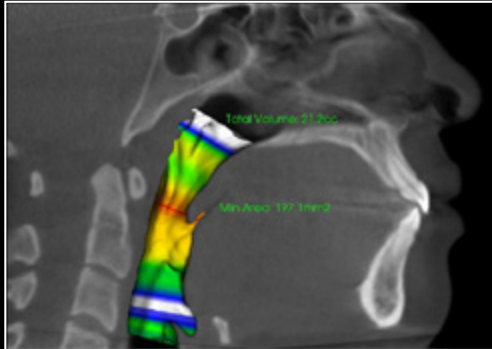
Measurements	Unit	Norm	S-D	Initial	End of Intrusion	Pre-genio	Final	Follow up 14 m
FMA	(deg)	25.0	0.4	39.5	37.4	39.1	35.6	35.6
ANS-Me (pSN-7)	(mm)	61.2	4.2	84.9	81.6	79.4	80.3	79.7
SNA	(deg)	82.0	0.6	79.9	80.4	79.4	78.8	79.5
SNB	(deg)	80.0	-0.7	72.6	74.5	72.5	73.4	73.5
Pogonion to N - FH	(mm)	-6.5	-0.4	-22.6	-17.5	-21.7	-14.9	-14.4
U6 cusp tip_Sella_Y-Axis1	(mm)	20.6	2.04	26.8	24.4	24.3	25.2	24.2
U1 crown tip-PP	(mm)	27.9	2.43	35.2	33.8	34.3	35.2	33.9
L1_MPGoGn	(mm)	38.83	2.43	51.5	51.6	50	46.6	48.4
L6_MPGoGn	(mm)	38.8	-0.7	42.9	40.4	41.5	41.2	40.9

CASE REPORTS

CASE PRESENTATION By: Ryan K. Tamburrino, DMD



Airway Imaging



Transverse Analysis



Maxilla = 48.1 mm
Mandible = 48.7 mm
Difference = -0.6 mm
Expansion Needed = 5 mm

Space Analysis

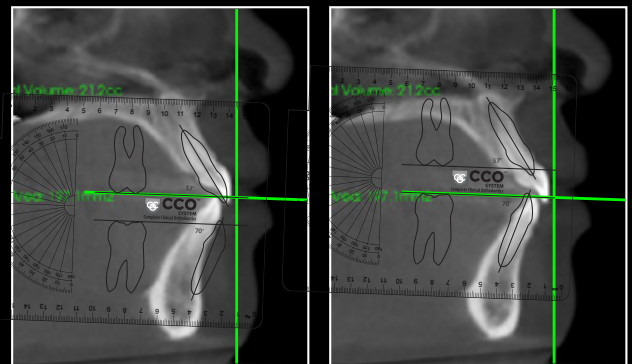
Space Requirement

	Maxilla	Mandible
Incisor Inclination (X2)	-1	-2
Crowding/Spacing	-12	-12
Maxillary Expansion	5	
Dental Expansion	-2	3
Curve of Spee	0	0
Tooth/Size Discrepancy	0	0
Unresolved Space Requirement	-10	-11
Extraction	14	14
Distalization/Mesialization (X2)	-4	-3
IPR	0	0
Final Space Requirement	0	0

3 Questions...

- Would the patient benefit from expansion?
- Would the patient benefit from tooth extraction?
- Would the patient benefit from surgery?

Objectifying Incisor Inclinations



Maxillary Incisor

Mandibular Incisor

Skeletally Mature Adolescent

- 4-6mm - start with Bonded/TAD RPE before bracketing
- 6-9+mm - start with TAD-supported RPE before bracketing
- may require multiple expanders if jackscrew won't fit



CONTINUED ON PAGE 14

Expansion Protocol

1. Measure the skeletal discrepancy
Ideal Maxilla is 5mm > Mandible
 $48-48 = 0-5 = 5\text{mm}$ of Skeletal Expansion Need
2. Choose the appliance
Acrylic TAD-RPE
3. Fabricate the appliance correctly
Jackscrew high with the screw at the U5/U6 level
4. Choose correct activation protocol
Skeletal expansion desired $\times 2 \times 4$ turns/mm = # turns
 $5 \times 2 \times 4 = 40$ turns



3 Questions...

Would the patient benefit from expansion?
Yes

Would the patient benefit from tooth extraction?
Yes

Would the patient benefit from surgery?
No

Treatment Plan

1. TAD-RPE - activate 40 turns
2. Bond U/L 7-7
3. Exo U/L 5s
4. Retain with U 2mm Essix A+ bite plate + L 2mm Essix A+



Treatment Goals Addressed

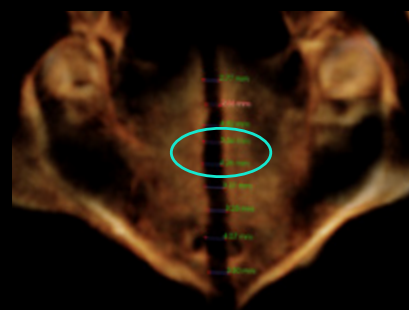
- ✓ Facial Esthetics
- ✓ Skeletal Dimensions
- ✓ Dental Outcome
- ✓ Periodontal Health
- ✓ TMJ Status
- ✓ Airway Status



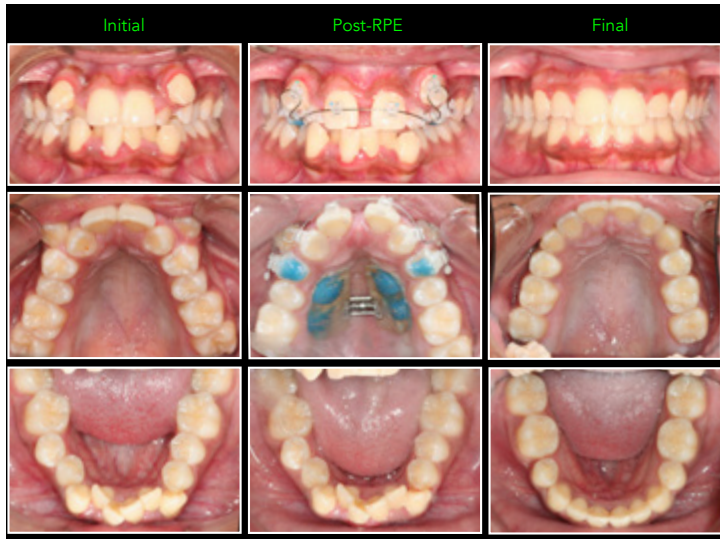
Initial
7.11.17

Post-RPE
8.27.17

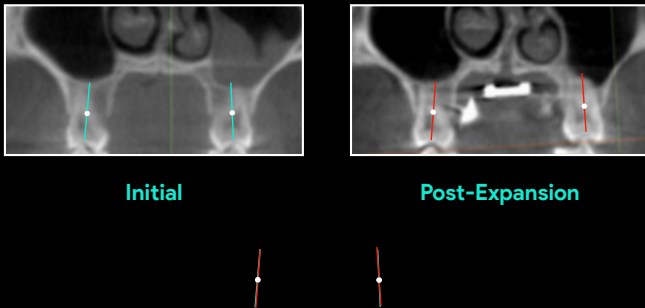
Post-Expansion Suture Measurement



3.3-4.3 mm at the M/D of the U6s

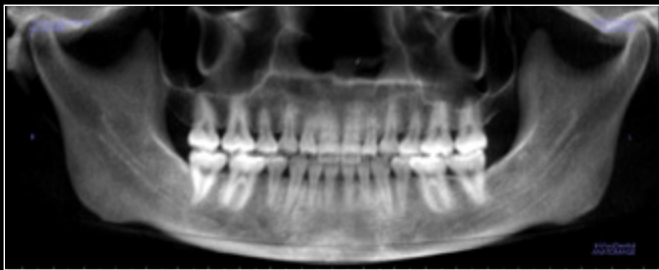


Post-Expansion Dental Inclination

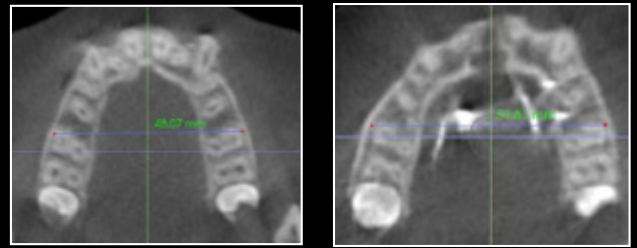


Clinically insignificant dental inclination change

Final Panoramic Film



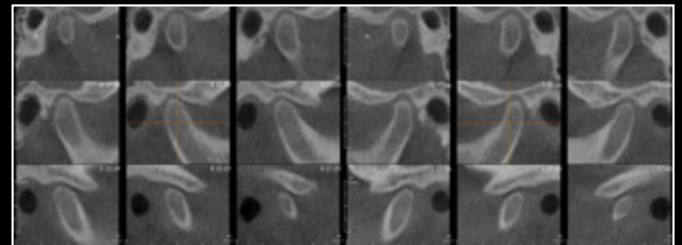
Post-Expansion Mx-Mx Measurement



3.8mm expansion at the MB root of the U6s



Final TMJ Imaging (Sagittal)

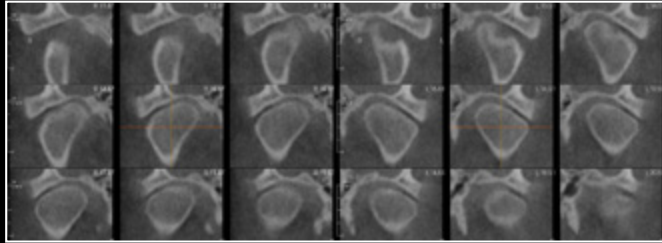


Right

Left

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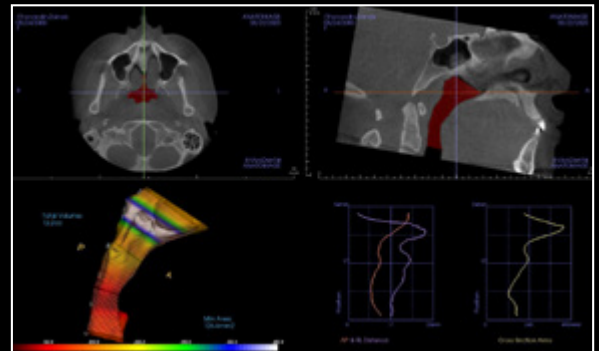
Final TMJ Imaging (Coronal)



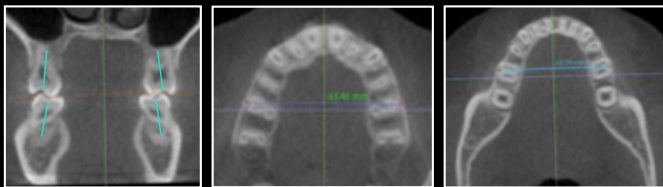
Right

Left

Final Airway Imaging



Final Transverse Analysis



Maxilla = 51.5 mm
Mandible = 48.3 mm

Initial Difference = -0.6
Final Difference = 3.2 mm

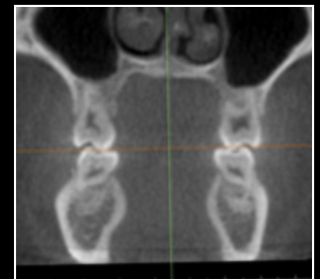
Difference = 3.2 mm

Skeletal Expansion Achieved = 3.8mm

Final Dental Inclination

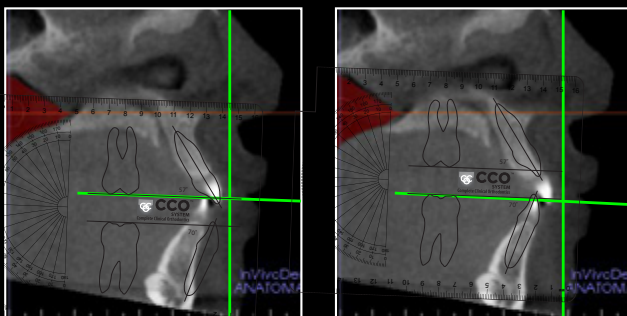


Initial



Final

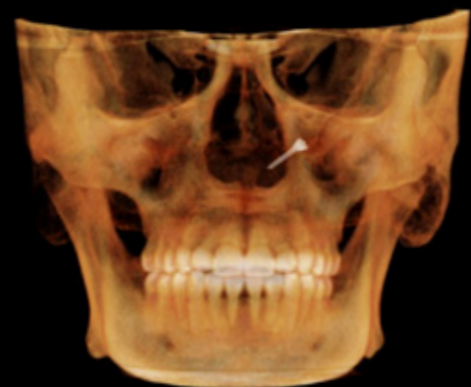
Final Incisor Inclinations



Maxillary Incisor

Mandibular Incisor

Final Volume



CASE REPORTS



CONTINUED ON PAGE 18

CASE REPORTS



MEETINGS

2020 MASO Annual Session ... *Going Virtual!*

Sometimes you have to switch gears - or pivot – when life throws you a curve. The coronavirus pandemic has thrown the entire world a huge curve in 2020, and individuals and organizations are responding as best they can in these unprecedented times.

First it was the AAO to cancel its in-person Annual Session in Atlanta. As the ultimate service to its members – all of whom were ordered to shutter their practices in the name of safety – the AAO produced a two-day virtual meeting, complete with motivational speakers, education, exhibitors and sponsor messages, the House of Delegates, and happy hours and networking. It was fantastic!

The AAO constituents, all with fall Annual Sessions, felt confident the show would go on! Press forward to July – all of the AAO constituents have cancelled, re-booked, or are trying (as of press time) to cancel hotel contracts and in-person Annual Sessions. MASO included.

We will miss not having our Annual Session in Baltimore this fall, but we will return to the 'Charm City' in the future for another meeting. Baltimore is in the heart of the MASO region and so many wonderful and well-attended Annual Sessions have taken place there over the years, most recently in 2012 when

more than 600 doctors, residents, staff and exhibitors packed the hotel.

The good news is, all of the AAO constituents have decided to offer their members a networking and educational version of their Annual Session through virtual meetings. **MASO's Virtual Annual Session will debut Friday, October 23. The programs will be pre-recorded and can be accessed on demand for the remainder of the year. More information will be sent to you in the near future and we hope that you will be able to join us! We have an exciting line up of speakers on topics pertinent to both doctors and staff.**

The MASO annual business and membership meeting, with the election of directors and the presentation of MASO awards, will take place Friday, September 11 from 12:30 – 1:30 PM. More information will follow on this meeting as well.

We look forward to the day when we can meet in person safely again. In 2021 our Annual CE Event is scheduled for March, and our Annual Session for November 4 – 7 in beautiful San Juan, Puerto Rico. Until then, we'll "see" you virtually! ■

2020 MASO Spring CE Event

Where there's a will, there's a way...

And the MASO CE Event Went On...

The CE event, with a final registration tally of 151 doctors, residents, and staff was one of the largest CE meetings in the history of MASO. The speakers arrived from Arizona and Utah on March 12, and on March 13 it was legally one of the last in-person meetings conducted in the state of Delaware with a total of 26 in-person attendees. The theme for 2020 MASO CE Event was "Orthodontic Pearls to Better Your Clinic, Business, and Life". It was memorable not only for the outstanding presentations by speakers Dr. Chris Teeters and Dr. Brian Anderson, but also for the circumstances surrounding the meeting. With the meeting slated for Friday, March 13 (*what could go wrong Friday the 13th, right?*), in Wilmington, Delaware at the magnificent Hotel DuPont, Governor John Carney issued a state of emergency declaration the evening of March 12 to prepare for the spread of COVID-19. Event organizers were advised to cancel non-essential public gatherings of 100 people or more to prevent community spread of coronavirus. The order was effective on March 13th at 8:00 AM.

Fortunately, when travel restrictions and other events leading up to the meeting were deteriorating that week **Dr. Ty Saini**, the MASO president, authorized the expenditure to livestream the meeting via Facebook Live, and more than 90 additional participants tuned in for the day long program.

Our speakers, founders and administrators of Orthodontic Pearls, a popular public Facebook group with 6,370 members, did not disappoint. In the morning, Dr. Chris Teeters shared Clinical Pearls, while in the afternoon, Dr. Brian Anderson, share Life Pearls. Following lunch, Ms. Angela Weber, Chief Marketing Officer of OrthoSynetics, presented Marketing Pearls. The MASO Meeting Organizing Committee thanks OrthoSynetics, American Orthodontics, and Reliance for sponsoring Drs. Teeters and Anderson.

Following the CE Event, the MASO Board of Directors and the Ad Interim Delegation were scheduled to meet on Saturday, March 14. Four directors and two MASO staff attended in person, with an additional 8 directors joining via conference call. The Ad Interim Meeting of the AAO Delegates was postponed to the following week, and was the first of many Zoom conference calls that followed that fateful week.

Thank you to the MASO members who tuned into the Facebook Live broadcast; many of whom had to create Facebook pages in order to do so. Also thank you to our residency Chairmen and Clinical Directors who encouraged their residents, who were under travel restrictions, to participate in the broadcast.

For those who didn't attend or watch the live broadcast, it is still available, in two parts, on the MASO (Middle Atlantic Society of Orthodontists) Facebook page. ■



Speakers: Dr. Chris Teeters and Brian Anderson



The MASO registration desk was prepared with hand sanitizers and Clorox wipes for the doctors.



Hotel DuPont ballroom with speaker Chris Teeters

MASO Reps Attend 2020 AAO Leadership Development Conference

The annual Leadership Development Conference (LDC) was held in Austin, Texas on February 6, preceding the AAO Winter Conference. MASO was well represented at the LDC with Component leaders, Emerging leaders, Residents, and Constituent representatives.

The day long program featured presentations on Leadership skills and development, AAO Governance, the House of Delegates, the AAO Foundation, AAO Advocacy and the Consumer Awareness Program (CAP), and a thought-provoking discussion on Orthodontics in the '20s. **Dr. Steven Siegel** and fellow Trustee **Dr. John Callahan** spoke on AAO Governance 101, and **Dr. Jean McGill**, former chair of the Council on Communications, spoke on the CAP program. The program, attended by about 125, ended with a reception for all attendees.



L to R, top row: Michael Perillo, New Jersey; Alfred de Prophetis, Pennsylvania; Jane Treiber, MASO ED; Constituent Representative - Francis Picon, Puerto Rico; Jean McGill, Pennsylvania; Tejjy Thomas, Pennsylvania

L to R, bottom row: Emerging Leader - Lara Minahan, Maryland; AAO Trustee - Steven Siegel, Maryland; David Harmon, Maryland; Resident - Jessica Kocan, Maryland; Emerging Leader - Lauren Wiese, New Jersey

AAO BUSINESS

AAO COUNCIL REPORTS



COUNCIL ON COMMUNICATIONS

Dr. Jean McGill
jsmcgilldds@aol.com

COC remains busy spreading the AAO message

The AAO Council of Communications (COC) has been hard at work spreading its message – to consumers and members alike.

CONSUMER EFFORTS

A *Happy Mouth Now* parody video campaign launched in May as part of the CAP. Consumers will learn the risks associated with DTC orthodontics in a light-hearted and satirical video series. The campaign contains social media and YouTube ads that drive consumers to a cohesively branded landing page, driving home the messaging that the risks of not seeing an orthodontist in person are very real. In just the first week, the first video in the series garnered over 1.6 million views and 700,000 engagements across Facebook and YouTube. View video on either site.

Influencer marketing remains a priority for the AAO to ensure orthodontics is top-of-mind for millennial parents. An Instagram campaign is scheduled for May 28 to close out FY20. Influencers will share common bite problems to look for in children and that, when we are re-opened, it is safe to visit the orthodontist.

AAO blogs continue to be an important feature on the consumer site as they provide new, relevant and easily accessible content for consumers. Throughout FY20, COC developed and published 16 consumer blogs, that have resulted in over 2.5 million web views. Recent posts have ranged from “My Orthodontist’s Office Has Reopened. Is It Safe to Go?” to “Handling Orthodontic Issues at Home.” Blogs are available on the consumer site for members to share on their own social media channels.

Lastly, newly designed Patient Education Brochures are now available for members to download or purchase at aaoinfo.org/store.

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AAO COUNCIL REPORTS

COUNCIL ON COMMUNICATIONS

CONTINUED FROM PAGE 20

MEMBER COMMUNICATIONS

COC continues its work of ensuring members are well-informed. The team keeps members in-the-know on all things Coronavirus with dedicated COVID-19 emails – providing breaking updates as they roll in – and a regularly updated COVID-19 Resource Center that can be found at aaoinfo.org/virus.

To further ensure membership does not miss a beat during this critical time, the team has implemented an email and social media re-subscribe campaign, generating more than 1,500 re-subscribes and increasing the overall email reach to 87%. We

are also in the process of rolling out a voluntary opt-in text messaging service as an additional way for members to choose to stay connected.

The council is already starting work for this year's Anti-Bullying public relations initiative set for October. Members will be encouraged to participate by spreading an anti-bullying message and joining in on Unity Day by wearing orange. More information can be expected in the coming months.

With a wildly successful first-ever Virtual Annual Session, which drew more than 11,000 registrations, the committee is already shifting its focus toward AAO 2021 with initial concepts of the meeting underway. ■

COMMITTEE ON INSURANCE

The Committee on Insurance was sunset by the AAO Board of Trustees in their February 2020 meeting. Since this action was taken and consistent with other AAO endorsed programs, the AAO Endorsed Insurance Plans are now managed by the AAO Business Development staff with oversight from the Business Development Task Force chaired by Dr. John Callahan. The collective focus areas of these groups are revitalizing the member benefits portfolio and increasing non-dues revenue.

The goal for this important member benefit is to provide the most competitive plans and rates for AAO members and wheels are in motion to achieve this goal.

In response to COVID-19, AAO Endorsed Insurance and New York Life implemented changes for an easier and safer application process for group life insurance. AAO members can now apply for up to \$500,000 of group, 10-20 year level term life insurance with no medical exam. ■



COUNCIL ON MEMBERSHIP, ETHICS & JUDICIAL CONCERNS

Dr. Luis Toro

drlatoro@gmail.com

The Council welcomes the 2020-21 year! We anticipate a challenging membership year due to the COVID-19 impact in all of our lives and practices.

COMEJC submitted several resolutions to the 2020 Virtual House of Delegates. The following is a summary of the outcomes of each resolution for your reference:

09-20 COMEJC – Bylaws – amendment to Retired member eligibility – **ADOPTED**

- Retired members must now have at least 15 years of cumulative membership (increased from 10) and be a member in good standing at the time of retirement.
- Background information - COMEJC reviewed the minimum membership requirement to be eligible for

retired membership, which was 10 cumulative years of membership. The previous policy also did not restrict non-members from applying for retired status as long as they met the membership requirements. COMJEC voted in favor of amending the AAO Bylaws to increase the minimum membership requirement for Retired members from ten to 15 years, as well as to require applicants to be members in good standing at the time of retirement.

10-20 COMEJC – Financial Policy – amendment to Student Member dues – **ADOPTED**

- Result: Students who have been recently accepted (but not yet started) into their orthodontic residency program may join the AAO at no cost during the period of December 1 through May 31.
- Background information - Each year the AAO begins recruiting newly-accepted residents immediately after the Match results are announced in November. This results in many Student Members only receiving six or fewer months of membership before they need to renew again. Council voted in favor of offering complimentary Student Membership to students who have been accepted into, but have not yet

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**COUNCIL ON MEMBERSHIP, ETHICS
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started, an accredited orthodontic program for the period of December 1 through May 31 immediately following acceptance into their programs.

11-20 COMEJC – Financial Policy – amendment to reinstatement policy – ADOPTED

- Result: Lapsed members may now rejoin by paying the current year's dues/assessment and no reinstatement fee after their first or second occurrence of a lapse (previously it was just the first). For those who incur a reinstatement fee, they will be subject to pay 25% of the dues/assessment from the most recent lapsed year at a maximum of one year (reduced from three).
- Background information - Council discussed whether the current reinstatement penalty is appropriate given the growing need to re-engage with former members. While COMEJC agreed that having a penalty in place is still appropriate to prevent from members dropping and reinstating whenever they want, they also agree that current policy presents a barrier to former members coming back.

12-20 COMEJC – Financial Policy – amendment to waiver policy – ADOPTED

- Result: Policy was updated to clarify that only members in good standing may apply for waivers, and waivers may be granted for a maximum of three years for a single event.

JUNE 2, 2020

COMEJC's resolution to adopt a new non-orthodontist faculty membership category was postponed until the 2021 HOD.

Background information - Following referral from the BOT to both COMEJC and the Council on Orthodontic Education (COE), council discussed whether full-time, non-orthodontic educators at accredited orthodontic residency programs should be eligible for membership. Currently, the only member type they would be eligible for is Honorary membership category; however, council agrees this is a status related to prestige of the individual and should not be expanded as a means of membership for non-orthodontist educators. During a January 9 conference call, COE also passed a motion for COMEJC to "develop and implement a limited membership category for non-orthodontist full-time faculty whose faculty appointment is in an orthodontic program." After discussion, council agreed a new membership type should be established with eligibility requirements, membership privileges, and dues similar to foreign trained academic members.

The following were discussed and action was taken during our January meeting at AAO Headquarters, St. Louis:

1. Dues Refund Policy

The BOT previously requested for COMEJC to consider establishing a dues refund policy for members who want to cancel their membership and request a refund but are not eligible for a dues waiver. Because dues refund requests are rare occurrences the council agreed it is appropriate not to establish a policy and to continue handling these requests on a case by-case basis.

2. Student Member Dues

New and Younger Member Dues - Council discussed whether the current five-year graduated dues scale for recent graduates is still effective and appealing to those targeted members. Despite the current tiered dues scale, in which first-year Active members receive a 90% discount on dues/assessment and second-year Active members receive a 75% discount, the AAO membership dropped 16.8% and 24 14.6% respectively for those groups.

In January 2020, COMEJC referred this issue to the Council on New and Younger Members (CONYM) for input. CONYM recommended not to make any changes to the dues structure at this time.

3. Transition from Student to Active

Council discussed the current cutoff date used to determine whether Student members transition to first-year Active or second-year Active after their Student eligibility ends. Currently, Student Members who graduate between January 1 and July 31 transition to second-year Active on June 1 of the year following graduation, while those who graduate between August 1 and December 31 transition to first-year Active on June 1 of year following graduation. Council proposed no changes to the current process.

4. Membership Renewal Cycle

Council discussed the current membership renewal cycle, which begins on June 1 and allows members up to December 31 to renew. This has led to more members waiting until the final month to renew. There are also concerns about holiday schedules and other year-end financial obligations being a distraction or barrier to renewals. Council voted in favor of amending AAO Financial Policy to move the membership renewal deadline from December 31st to October 31st. This resolution was withdrawn in consideration of the COVID-19 pandemic.

5. International Member Dues

The CAP Assessment Task Force requested COMJEC determine whether a resolution is appropriate to increase dues for International Members since they do not pay the CAP assessment but benefit from the CAP's global impact. The Task Force suggested an increase from 50% to 60% of full dues, which aligns with dues paid by Life Active members. COMJEC agreed with the recommendation

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and voted in favor of increasing International Member dues from 50% to 60% of full dues. This resolution was later withdrawn to allow the International Study Task Force (a task force of the BOT) to consider recommendations as part of a more global strategy for International members.

6. Orthodontic Program Liaisons Sunset

Along with the Resident Vitals and Financial Management for Residents programs, the Orthodontic Program Liaisons program was transferred under COMJEC's purview by the BOT in February 2019. After discussion, COMJEC agreed that Orthodontic Program Liaisons and its activities overlaps with the Resident Champion Program and may be better served at the Constituent level. Council submitted a motion to the February 2020 BOT to sunset the Orthodontic Program Liaisons program. The BOT approved the recommendation.

7. Principles of Ethics, Code of Professional Conduct and Advisory Opinions

Council conducted its annual review of the Principles of Ethics, Code of Professional Conduct and Advisory Opinions of the American Association of Orthodontists and has no recommendations.

8. Ethics Process Review

COMJEC conducted its annual review of the ethics complaint summary. Many of the ethics complaints received by the Council are financially related and in particular related to handling fees of transferring patients. The Council asked whether the AAO should develop guidelines to help members handle these types of situations. It reviewed existing resources on the AAO member website during the meeting to determine whether anything already exists. While guidelines have been created on handling transferring patients, none address patient fees. Council submitted a motion to the February 2020 BOT to develop guidelines to help members handle fees of transferring patients. The BOT referred the issue to the AAO legal team in conjunction of the Council on Orthodontic Practice. ■

**COUNCIL ON
ORTHODONTIC EDUCATION****Dr. Anil Ardesbina**ardeshap@sdm.rutgers.edu

Greetings to all. I hope this finds you safe and sound and perhaps finally enjoying the beautiful summer weather, despite our current situation with COVID-19 restrictions. The unprecedented pandemic event presented a great challenge to both the practicing orthodontist and the orthodontic educational institution. The Council on Orthodontic Education (COE) has been extremely active and dynamic during this time compiling consensus opinions, bringing forward concerns to other parties, providing guidelines and information to the educational community. While the meetings could not be in person they were conducted via ZOOM. Some of the highlights are presented in this report.

The AAO assembled the AAO COVID-19 Task Force in response to the COVID-19 pandemic. It was comprised of a diverse group of representatives from various entities and councils including COE. The task force worked on protective guidelines based on the available literature. It developed professional best practices in order to provide members with evidence-based strategies and protocols for their practices prior to reopening. The task force lobbied for financial relief, enhanced access to PPE from federal government, and helped determine re-opening strategies across the nation.

The COVID-19 pandemic greatly affected orthodontic post graduate programs. Social distancing and enacted stay-at home orders resulted in closure of the physical university campus facility to students, staff, and faculty.

The Commission on Dental Accreditation (CODA) approved significant temporary changes to provide programs with increased flexibility towards meeting CODA standards. The approved use of distance education, which includes the utilization of virtual meeting/teaching platforms has made it possible for programs to continue the educational process of orthodontic postgraduates.

The COE lobbied to have all 2020 site visits postponed. They will be conducted in a traditional format in 2021. Due to the current uncertainty this will serve the best interests of both the programs scheduled for review and the consultants who were to conduct the program assessments.

With the many challenges the education community has faced this spring, the COE has worked to ensure that all orthodontic postgraduate programs have the information and guidance they need to ensure the best education for our students. To this end, Dr. Chung How Kau of the University of Alabama created and disseminated several surveys to capture the current state and future plans of orthodontic programs throughout the nation.

This is the second year of the re-activated AAO Full-Time Faculty Teaching (FFT) Fellowship Program. This program

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is AAO's commitment to support the development and retention of individuals in orthodontic education. Of the 13 applicants, 3 received funding. Information for the 2021 cycle will be available this fall and all junior faculty are encouraged to apply for this prestigious fellowship program.

The AAO established the Partners in Research (PIR) program to support the distribution of surveys via mail or email to AAO members on behalf of faculty and/or postgraduate students of orthodontic programs accredited by CODA. Each year dozens of these research-based surveys are disseminated. At the fall 2020 COE meeting, the council reviewed the existing PIR process and submitted a number

of recommendations to the AAO Board of Trustees (BOT). The recommendations include an increase in the application fee to \$275 and changes to the sequential review process. The application vetting process now begins with the AAO legal department, who assesses the application for potential threats to the association. Depending on their findings, the submitted application is returned to the investigators for modifications or forwarded to members of the COE for further review. The overall review process timeline remains at 4-6 weeks after which time the survey is disseminated.

Please feel free to contact me if you have any questions related to orthodontic education that you would like to bring to the council's notice. My email is ardeshap@sdm.rutgers.edu and telephone is 973-972-1892. Best regards - stay well and be safe. ■

COUNCIL ON
ORTHODONTIC PRACTICE

Dr. Lara Minahan
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GENERAL: We would like to thank the 2019-2020 Executive Board, BOT and AAO staff for pulling together a spectacular last minute AAO Virtual Annual Session last spring – we were all very impressed and hope that aspects of this virtual meeting broaden our approach moving forward. Among the many transitions, we are pleased to welcome our new BOT Liaison, Dr. Steve Robirds to the COOP team.

COVID-19 RESPONSE: Given the dramatic turn of events earlier this year, we are grateful for the many AAO staff, Executive leaders, Board of Trustees, Councils, General Counsel and so many others for rising to the occasion; guidance was assimilated and distributed in as timely a manner possible. COOP was happy to serve in that more urgent collaborative setting. We further greatly appreciate the **AAO COVID-19 Task Force**, for their dedicated efforts in the negotiation for PPE, the reviewing of large bodies of infection control literature and synthesizing recommendations in line with the many national, regional, and state governing agencies.

PRACTICE TRANSITION SEMINAR: Given the AAO Annual Session shift to commence on Friday May 1 in Atlanta, we had prepared for a combination of online and in person conferences, which blended beautifully with our ultimate transition to a virtual 2020 Annual Session. The on-line component found on the Practice Transition Portal, allowed attendees to clarify their transition plans as well as upload

questions. The noteworthy speakers for each transition category were:

- **Practice sales:** Charles Loretto (Cain Watters & Associates)
- **Practice start-ups:** Jill Allen (Jill Allen & Associates)
- **Partnerships:** Brandon Collier (Collier & Associates)
- **Associateships:** Shannon Patterson (Bentson Copple & Associates)
- **Dental support organizations:** Brian Colao (Dykema Dental Service Organization Industry Group)

PRACTICE OPPORTUNITIES AND CAREERS PROGRAM (POC):

Excellent participation and dramatic increase in use of the POC program continues; this confidential on-line program aims to match members searching for associateships, partnerships, sales, etc. Job posting upgrades are available, incorporating ZipRecruiter and the like; resume critique is offered if desired. In addition, member and non-member employers may further post orthodontic staff positions. Please, as you use the program and hopefully achieve the match of your dreams, notify the AAO POC so that the site may remain current. Thank you!

ALIGNER TREATMENT and WEBINAR PROGRAMS: A concerted effort is being made to establish novel educational programs via webinars, podcasts and/or videos that may help our members and their teams. A wide array of subjects will be broached including clinical information, aspects of business, practice management, and practice transitions. Should you have a topic suggestion, please do share ideas with me throughout the year.

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COUNCIL ON ORTHODONTIC PRACTICE

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ORTHODONTIC STAFF CLUB (OSC): Doctors are encouraged to promote the Specialized Orthodontic Assistant program as well as clarify the benefits of membership on-line services (website access, fee discounts, and the like). The Orthodontic Staff Facebook page proudly supports a range of relevant team questions and nearly 400 members. Please note that this is almost double the number of members since last year! Thankfully, as a special offer this summer, the 2020 AAO membership renewal will include OSC membership at no additional cost!

VIRTUAL CONSULTATIONS: COOP: had been charged to submit several suggestions regarding the sharing of clinical recommendations with clients on-line. Efforts aim to protect both the client and the practitioner.

The next COOP F2F meeting is scheduled to take place on October 30-31, 2020, at AAO Headquarters in St. Louis.

Please note that I welcome all questions or comments that I may share with the Council throughout the year. In the meantime, I wish you and yours safety and health. May we cherish every moment we have together! ■



COUNCIL ON SCIENTIFIC AFFAIRS

Dr. Dina Stappert

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COSA met via a video call on June 8, 2020.

During the meeting, COSA initially reviewed and finalized items from 2019-2020 year. COSA is working with the AAO Meetings Department to secure space and time for the 2020 Hellman, Sicher, Graber award winners to give their lectures at the 2021 Annual Session. COSA is also working on a schedule for the accepted 2020 Oral Research applicants to have a chance to present at the 2021 Annual Session.

COSA members are playing an instrumental role in the AAO COVID-19 Task Force. COSA members on the task force are Drs. Onur Kadioglu, James Mah, Greg Huang, Kelton Stewart, Rolf Behrents and Ms. Jackie Hittner. To support the work of the task force, COSA members are in the process of writing an Ask Us column for the AJODO that will answer some of the questions the AAO has received regarding office practices during the coronavirus pandemic. Dr. Steven

Marshall is taking the lead on the article. A list of resources the task force is using can be found at: <https://www.aaoinfo.org/node/9638>.

Besides working with the AAO COVID-19 Task Force, COSA members are serving the AAO in various other capacities. Dr. Emile Rossouw is serving as an ABO Director. Dr. J. Martin Palomo is serving on the AAO Committee on Conferences and Meetings which will be replacing the Annual Session Planning Committee starting with the 2023 Annual Session.

- The deadline for applying for the 2021 Hellman, Sicher, Graber Awards is October 1, 2020. Information about the application process can be found at: <https://www.aaoinfo.org/node/9562>.
- The deadline for applying for the Oral Research, Table Clinic and E-Poster programs at the 2021 Annual Session is October 15, 2020. The online application goes live the first week of August 2020 on the AAO website.
- The deadline for applying for the Dr. William R. Proffit Resident Scholar Award is February 1, 2021. The online application goes live the first week of December 2020 on the AAO website. ■



AAOF UPDATE

Dr. Orhan Tuncay

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- The AAOF continues to support the orthodontic profession through numerous programs and projects. To learn more about what the AAO Foundation is working on today, please visit our website.

- If you make one donation annually, please consider the AAO Foundation next year and donate online.
- The AAOF Awards Program deadline will be Friday, November 13, 2020.
- The AAOF will offer the resident gift again in at the AAO Annual Session in Boston, those eligible for the gift in Atlanta will still be eligible in 2021.

2021 AAOF AWARDS PROGRAM

The deadline for 2021 funding will be Friday, November 13, 2020. The awards material will be posted online in July. If

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you have any questions regarding this application process, please reach out to the AAO Foundation office by emailing Jackie Bode at jbode@aaortho.org. The AAO Foundation has given over \$13.8 million dollars back to the specialty through the awards program since its inception.

UPDATE ON NEW INITIATIVES

The Dr. Fred A. Garrett Resident Gift Program will be offered again at the AAO Annual Meeting in Boston. Those residents who were eligible for the 2020 meeting in Atlanta will continue to be eligible in 2021. The AAOF believes in education and research and the annual session is a wonderful way for residents to be exposed to some of the best current orthodontic research and education that is available. Thank you to our donors who helped make this program possible.

To learn more about this program, please visit the Resident Gift Program.

REMEMBER THE AAO FOUNDATION IN YOUR CHARITABLE GIVING

The AAOF website can now accept online donations! Please consider making an online donation to the foundation in 2020 by visiting our website. To learn more about the AAO Foundation and how you can personally support this specialty by giving back to the AAOF, please visit our website, <https://www.aaofoundation.net>, like us on Facebook or follow us on Twitter .

FOR MORE INFORMATION

If you should have any questions or concerns, please contact Jackie Bode, AAOF Senior Vice President, at 314-292-6546 or by email jbode@aaortho.org. ■



AAO HOUSE OF DELEGATES

Dr. Luis Toro
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The year 2020 is definitively one for the records books. In Puerto Rico it started with a 6.8 magnitude earthquake on the January 7 and it has continued its devastating pace with the COVID-19 virus pandemic. As we are all painfully aware the AAO had no alternative other than cancelling its Atlanta annual session. In less than six weeks from cancelation to meeting date it was “all hands on deck” to make something out of nothing.

As of March 14, when we (MASO) celebrated our Ad Interim meeting the entire AAO HOD was up in the air with no idea what was ahead and how it was going to unfold. As a result of several preliminary brainstorming sessions on the part of the HOD leadership, the AAO HOD conducted a successful VHOD with full voting process resulting in a budget approval.

Although the VHOD lacked the drama and excitement of a face to face annual session HOD meeting, it was nevertheless effective. It is fair to say that the foresight of previous efforts at developing the concept of the VHOD was fruitful and led to the historic May 1 celebration of the first AAO full voting virtual House of Delegates.

As always, MASO was very well represented by **Drs. Doug Harte, Lawrence Wang, Richa Dutta, Jean E.**

Asmar, Kathy Marshall, Richard Albright, Ty Saini (Alt Delegate, MASO President), **Francis Picón** (Alt Delegate, MASO President Elect), and **Richard Isaacson** (Alt Delegate). Our delegates were always prepared and ready to contribute to the betterment of our Association. **Mrs. Jane Treiber**, our Executive Director, and **Dr. Steven Siegel**, MASO Trustee, completed our Delegation.

The House of Delegates is the ultimate authority of the AAO in all matters, and it consists of 64 AAO active members voted or selected by their Constituent societies. Each constituency has an assigned number of delegates based on proportional representation of all AAO active members. This year, MASO continues to have 7 full voting delegates. We need to continue to be vigilant and keep helping the AAO in its annual membership renewals. MASO is close to the fence between 7 or 6 full delegates. In our democracy representation is power. We always need as much representation as possible.

2020 turned out to be a stellar year for our MASO backed resolutions:

- **01-20 BT Budget FY20-21 and 02-20 BT Dues** – FY 2020 to 2021 AAO Budget was approved and the membership dues stayed at \$793.00. Total Active membership dues and assessment for 2020-21 are \$1,093.00; a considerable and substantial reduction from the previous year dues and assessment (\$1,593).
- **03-20 COC (S5-BT) CAP Budget** – The original COC resolution called for a reduction of assessment

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AAO HOUSE OF DELEGATES

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from \$800 to \$600 for the next 3 fiscal years. In the background information the net information was that COC and AAO staff could continue their great job for the next 3 years with a \$5M annual budget. Of course, this resolution was crafted before the COVID-19 virus showed up and upended all of our lives and practices. MASO and, indeed, the entire HOD believes that now more than ever we need to educate the public about orthodontics and orthodontics done by orthodontists. At the same time, we acknowledge that our practices have taken a very direct and negative hit with the nationwide preventive lockdowns. It was MASO's initial amendment that lowered FY 2020-21 from \$600 to \$300 and use excess liquid reserves to fund CAP all the way to the \$5M amount requested by COC. After its usual multiple versions and discussion, resolution 03-20 COC (S5-BT) was included in the Consent agenda to adopt and in effect the CAP assessment was reduced for FY 2020-21 from \$800 to \$300, a \$500 savings to our members.

- 04-20 RC Substitute for Bylaws Amendment Article VI – Board of Trustees, A. Composition, C. Nomination and Election and D. Term of Office – This is a monumental bylaws amendment creating up to three At-Large Trustees. The original BT resolution was written by our Trustee, Dr. Steven Seigel. MASO added the following sentence to the Bylaws amendment resolution: “An at-large Trustee shall be an active member of this Association who has not been a previous constituent elected Trustee.” – an idea from Dr. Normand Boucher during our Ad Interim meeting on March 14, 2020.

The AAO and MASO have been very aware for years of the importance and the benefits of having a diverse leadership. The Board of Trustees objective with this initiative is to increase even more diversity throughout the AAO Leadership with a focus on the Board.

This At-Large Trustee resolution ended up being the most discussed and debated resolution of this historic VHOD. It was adopted and going forward the AAO BOT will included up to three (3) At-Large Trustees who will serve one term of up to three years.

- 05-20 BT (S1-PCSO) Substitute for Bylaws Amendment Article VI – Board of Trustees, G. Powers and Duties, 1. Powers, g. This substitute resolution was included in the Consent to Adopt agenda. It gives the power to the Board of Trustees (BOT) to appoint advisors and at-large members whenever necessary to the AAO Councils and committees. The advisors will have full voting rights on the Councils and committees which they serve.

- 06-20 RC (S1-SAO) Substitute for Amendments to the Council and Committee Manual – CONYM-NYM and At-large Member Advisors. This resolution was adopted with a House majority vote. It establishes the Advisors and At-large Member's maximum terms of office. “Advisors shall be at the discretion of the Board, not to exceed six (6) consecutive years. At no time should service on a Council exceed eight (8) consecutive years.”
- 07-20 VTTF (S1-NESO) Substitute for Voting Thresholds and Notice Requirements Chart – New voting thresholds have been established. The intent or goal of the Voting Threshold Task Force was to study and recommend changes to the previous AAO HOD voting thresholds in order to maintain the basic democratic principle that the will of the majority expressed in our vote, wins.
- 09-20 COMEJC Bylaws Amendment – Article III, Membership, 5. Retired Members, Eligibility – this adopted COMJEC resolution amended our bylaws so that eligibility to seek retired membership status the active, service or international member must have 15 cumulative years (it changed from 10 cumulative years) of membership.
- 10-20 COMJEC Amendment to Policy – 1. Dues, B. 5. Student Members (Financial Policy). This resolution was included in the Consent to Adopt agenda. The following statement has been added to our financial policy document – “a. Students who have been accepted into, but not yet started, an accredited orthodontic residency program: Exempt for the period of December 1 through May 31 immediately following acceptance into an orthodontic residency program.”
- 14-20 MASO Dues Billing Hold – RESOLVED, that the AAO forgo sending all appropriate membership categories dues bill until August 1, 2020. This another effort to show our members that the AAO is aware of the hardship our practices are undergoing during this COVID19 pandemic. Even though the AAO software will make the appropriate membership charges at the end of this VHOD the bill will not be mailed until August 1.

As always, I appreciate the opportunity you have given me to serve as your delegation chair. It has been my privilege and absolute joy serving MASO and AAO as Alternate Delegate, Delegate and Delegation Chair for close to 20 years. If you have any questions, concerns, ideas, or issues that you believe the MASO Delegation can help you with, please do not hesitate to contact me at drlatoro@gmail.com or 787-464-2886. ■



AAO PAC UPDATE

Dr. Massimo Verduci

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During these very trying and uncertain times when life seems to have temporarily stopped, it has been reassuring and comforting to receive daily emails, view webinars with valuable information as well as witness the camaraderie amongst our colleagues. The AAO has been there for us on a daily basis throughout this pandemic and has given all of us the strength and focus to continue and persevere toward reopening our practices. We all have worked relentlessly to reach the point where we can reopen our practices and be prepared to protect our staff and treat our patients safely and to the best of our ability. Behind the scenes our AAOPAC, now more than ever, has worked in conjunction with the ADA and our other dental specialties to advocate for our valued members. Specifically, the AAO has been actively working with our federal lobbyist to monitor and evaluate all federal policies being brought forth to address the impact that COVID-19 has had on our members both as healthcare professionals and small business owners.

Recently the AAO, with the support from AAOPAC, has obtained successful results at the federal level. These results support our members as healthcare providers as well as small business owners and include the following:

- Advocating for small business relief for our members through the coronavirus relief packages

- Advocating for the inclusion of a regulation from the Secretary of Labor that employers with less than 50 employees may be exempt from the emergency paid sick leave requirements
- Meeting with and urging members of Congress to support legislation to increase funding for PPP Loans as well as EDIL program
- Meeting with members of Congress to discuss issues that affect our specialty; for example, a recent virtual meeting with Congressman Brian Babin, a dentist from Houston, Texas
- Taking part in policy discussions to reassure that orthodontists are represented at the lawmaker's table. This includes meetings with leaders at the CDC, OSHA, and the department of Health and Human Services.
- Providing avenues for our members to contact their legislators directly in order to help build stronger relationships with our congressman. It is these relationships that help our organization to be represented in Congress. Please note that we have five dentists in Congress: Congressman Paul Gosar, Mike Simpson, Brian Babin, Drew Ferguson and Jeff Van Drew.
- For additional information concerning our AAOPAC accomplishments please visit our website at aaoinfo.org and view under "Latest News"

Please continue to support and contribute to our AAOPAC. If you have questions, please reach out to the AAOPAC Treasurer, Ms. Gianna Hartwig, at ghartwig@aaortho.org. ■



ABO UPDATE

Dr. Roberto Hernandez-Orsini

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The ABO is committed to upholding its mission to elevate the quality of orthodontic care for the public by promoting excellence through certification, education and professional collaboration. We believe the increase in orthodontists achieving board certification strengthens the specialty and provides an opportunity for us to come together to address non-specialists practicing orthodontics.

ABO YEARLY UPDATE:

CLINICAL EXAMINATION UPDATE:

- The ABO conducted Clinical Examinations in February, June and November 2019, as well as a February 2020 Examination. Since the new Scenario-based Examination has been initiated, 531 orthodontists have achieved board certification through this exam. Since the announcement

of the new Scenario-based Oral Clinical Examination, the demand has been consistent and strong. In general, the February 2020 Clinical Examination examinees ranged from residents just completing their orthodontic programs, to established orthodontists practicing for 30+ years – reiterating the fact that board certification is for any orthodontist today who wants to challenge and better him or herself, and commit to the level of excellence expected to provide the highest level of patient care. Among the total number of examinees that passed the oral exam, I am honored to inform you that we have 21 new Diplomates from MASO at the November exam, and 11 at the February exam, for a total of 33 new diplomates from our Constituency.

- The ABO certification now represents 49% of AAO membership.
- Following serious deliberations between ABO directors, examiners and staff, the decision was made to cancel the July 2020 Clinical Examination due to COVID-19. All options were considered to ensure we not only honored our commitments to the examinees but also to protect the safety

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and welfare of all involved while maintaining the integrity of the examination. Examinees will be automatically transferred to a newly added July 2021 examination unless otherwise notified. The next Clinical Examination is scheduled to be held in November 2020 and is currently at full capacity with a wait list.

- On-line registration for all 2021 Clinical Examinations opened on July 15, 2020.
- The final case-based examination occurred in June 2019. Examinees who had three or more completed cases had two options to complete the board certification process. Complete details are available on the ABO website.
- A “Day in the Life” video, filmed during the November 2019 Clinical Examination, was created to share first-hand accounts and behind the scene details of the examination process from examinees, examiners and ABO directors. We hope this allows those interested in achieving board certification an opportunity for a basic overview of what they can expect when in St. Louis.
- On-line study materials that include a Study Guide, sample cases and board prepared videos continue to be available on the ABO website to assist in preparing for the examination. ABO-appointed advocates for orthodontic programs are available for presentations, as well as ABO examiners who can be contacted for mock-exams to demonstrate the traditional style clinical examinations. In addition, CDABO offers Prep Courses to assist in preparing for the examination throughout the year.
- To maintain an active Board Certification status, Certification Renewal is required every 10 years and may be taken up to two years prior to the expiration date printed on the individual’s certificate. A motion graphic video, outlining the certification renewal process, is available for reference. See the ABO website for complete details on the process.
- Dr. Roberto Hernández-Orsini conducted advocacy visits at Howard University College of Dentistry, Medstar Hospital Washington Center and University of Maryland Orthodontic Programs. Virtual advocacy visits for other programs are being scheduled during this pandemic season.

Please visit the ABO website for additional details on the any of the above.

WRITTEN EXAMINATION UPDATE:

The ABO Written Examination was originally scheduled to be held on April 7, 2020 at Pearson Vue Testing Centers throughout the United States and Canada. However, we were notified by the testing center that all exams at their venues were cancelled due to COVID-19. ABO directors and staff immediately began exploring all viable possibilities to administer the test. Time was of the essence as many orthodontic programs use the ABO Written Exam as their exit examination for graduation.

Following extensive research and discussions, the decision was made to conduct the examination through a live, online-

proctored test administered through Scantron/Examity, June 5 and 6, 2020. This format allows candidates to complete the examination from their personal computer within a defined testing window over the two-day period. Security measures are in place to include a candidate ID check at the beginning of the exam, a room scan, login procedures, observation during the test administration, video and audio recording of the testing session, monitoring of the candidate’s computer during test administration, ability for the proctor to communicate with candidates if the proctor needs to correct improper behavior and the ability to stop the examination if the candidate does not correct improper behavior.

We are excited to offer this innovative approach to the examination and are pleased that a swift and competent solution was found to administer this examination without jeopardizing the integrity or reliability of the exam. Please visit the ABO website for additional details concerning the Written Examination. As a reminder, once the ABO Written Examination is successfully completed, it does not expire and does not need to be retaken.

EDUCATIONAL UPDATE:

- The ABO continues to offer on-line ABO educational toolkit resources for ABO certified orthodontists in promoting their certification achievement. A quick link to the storefront login has been added to individual dashboards.
- All board-certified orthodontists are strongly encouraged to reset their ABO password to access their personal dashboard on the new software. As a reminder, enhancements include enhanced orthodontist locator, ability to add professional head-shot to profile, ability to edit/add personal and practice information with unlimited offices, increased security, user specific dashboard notifications, make annual fee payments and view payment history, upload and track CE credits and print complimentary verification letter.
- Complimentary ABO measuring gauges will again be provided to CODA-accredited orthodontic programs who request them for their incoming residents.

EDUCATORS SYMPOSIUM:

- The Educators Symposium, “The Change is Here – Are you on Board?”, honoring Dr. Katherine Vig, scheduled for April 2020 in St. Louis, was cancelled due to the COVID-19 Pandemic. Department Chairs, Program Directors and ABO-appointed Advocates along with and AAO/CDABO councils were invited to attend. This important meeting will be rescheduled, at a date to be determined.

THE COLLEGE:

- The College (CDABO) continues to experience a high level of interest for attendance at their Prep Course on how to prepare for the ABO Scenario-based Clinical Examination. Upcoming classes are listed on the CDABO website. The College continues to oversee the administrative organization of the ABO advocacy program to encourage certification at orthodontic residency programs, with volunteers assigned for each program.

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ABO UPDATE

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GORP:

- The ABO was represented during the 2019 GORP meeting in St. Louis by Dr. Nicholas Barone who shared a presentation to residents and answered questions on board certification. In addition, tours of the ABO Examination Center were provided along with participation in an interactive, competitive game of “Steady Hands.”

ABO AT 2020 AAO ANNUAL SESSION:

2020-2021 ABO DIRECTORS:

- The ABO Directors for the 2020-2021 year are as follows:
Dr. Valmy Kulbersh, President, representing the Great Lakes Association of Orthodontists
Dr. David Sabott, President-Elect, representing the Rocky Mountain Society of Orthodontists
Dr. Patrick Foley, Secretary-Treasurer, representing the Midwestern Society of Orthodontists
Dr. Timothy Trulove, Director, representing the Southern Association of Orthodontists
Dr. Jae Hyun Park, Director, representing the Pacific Coast Society of Orthodontists
Dr. Roberto Hernandez-Orsini, Director, representing the Middle Atlantic Society of Orthodontists
Dr. Stephen McCullough, representing the Southwestern Society of Orthodontists
Dr. Nicholas Barone, Immediate Past-President, representing

the Northeastern Society of Orthodontists

The AAO House of Delegates confirmed Dr. Emile Rossouw as the new 2020-2021 ABO Director representing the Northeastern Society of Orthodontists. To view the announcement please visit the ABO website.

Of special note, Dr. Valmy Kulbersh, becomes the first woman in the history of the ABO to serve in the position of ABO President.

- The ABO award recipients are traditionally recognized during the AAO Annual Session. However, due to the 2020 meeting cancellation, the Albert H. Ketcham award will now be presented to Dr. Rolf Behrents at the 2021 Annual Session in Boston. No additional award recipients will be identified for 2021.
- Dr. Carla Evans, 2020 Dale B. Wade Award of Excellence in Orthodontics,
- Dr. Perry Opin, 2020 Earl E. and Wilma S. Shepard Distinguished Service Award
- Dr. John Kanyusik, O.B. Vaughan Special Recognition Award, will all be honored during the March 2021 CDABO Annual Meeting to be held in Savannah, GA.

Please visit the ABO website for information on all award honorees.

- The ABO participated in the AAO’s virtual 2020 Annual Session by including board certification brochures in conference bags distributed to over 9,000 AAO registered attendees. ■

MASO BUSINESS

MASO STRATEGIC PLAN REPORT “ADVANCE ORGANIZATIONAL EFFECTIVENESS” March 2020

Objective: Utilize the governance structure to become more effective and responsive to members

1) A thorough understanding of the MOP and all duties and responsibilities outlined in the document is necessary in order to properly place individuals based on various skill sets and interests

- The MOP should be reviewed annually to determine if duties, descriptions and policies are accurate, consistent and relevant.

⇒ Accuracy: Do the duties, descriptions and policies accurately portray how the organization currently operates?

⇒ Consistency: Is our governance consistent with the governance of the AAO? Do our component’s policies and procedures mirror or share similarities with the MASO MOP?

⇒ Relevance: Are duties, descriptions and policies presented in the MOP reflective of the changing times (eg. technological advances)

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MASO STRATEGIC PLAN REPORT

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- Revise the MOP as needed for consistency, accuracy and relevance and identify any area that may be missing from the MOP or need more development (eg. mentorship)

2) Possible process for identifying future leaders

- Create a list of qualities which potential leaders would possess that would be beneficial to the organization

(eg. dependable, collaborative, strong listening skills, open to new ideas)

⇒ This list should incorporate our core values

- Develop a rubric to rate future leaders
- Form an informal committee, that includes the following members, to identify future leaders based on the qualities listed above:

⇒ One full time faculty, chair or program director from each MASO institution

⇒ One practicing orthodontist from each component (MD, DC, NJ, DE, PA, PR)

⇒ We can also call for self-identification or for members to identify fellow members

- Survey those who have been identified by the committee to determine their interests, abilities and levels of commitment
 - Consider adding a digital rotation program where candidates shadow leaders and sit in on committee meetings to get an idea of where they might fit best
 - Submit names of candidates to the nominating committee who will recommend them for leadership/ committee positions based the above data that was gathered and the committee descriptions and duties outlined in the MOP
- ⇒ The goal is to identify and nominate members who are best suited for each position

- About 10 members, so far, have been contacted informally to assess interest in considering leadership roles in MASO.

⇒ A more formal process, like what's listed above, should be implemented

3) Once leaders have been elected into office we may consider the following methods of training:

- The first year on the committee is a "non-active" year where they attend meetings and work alongside the committee chair to get acclimated to the role (the chair will serve as a mentor)
- Have them attend the AAO leadership meeting and carve out time to discuss their specific roles and duties and MASO governance as outlined in the MOP
- A distance learning leadership training program that we create or invest in

4) Restructure board meetings to reduce Annual Session Time

- The board and the delegation can both meet virtually the Saturday prior to the Annual Session
- A short board meeting (1-2 hrs) may be scheduled prior to the board dinner if there are issues that need to be discussed in person. The AAO leadership may attend this meeting.
- Another short board meeting (30min-1hr) may be scheduled following the membership meeting after the installation of officers.

5) Other ideas

Live stream Annual Sessions and Spring CE to engage more members/ non-members and to generate revenue.

Consider short MASO webinars (free to members/ charge a fee for non-members) on ortho specific and licensure specific topics (eg. infection control)

Mentorship training for the board and committee chairs ■

MASO STRATEGIC PLAN REPORT “ENGAGE MEMBERS AND PROVIDE VALUE” MARCH 2020

Objective: MASO will continue to offer strong support to Residents.

Most of the following ideas and plans are modeled after the AAO's commitment to engage members and provide value.

In consultation with Mr. Brandon Hackworth the AAO's membership department director and COMJEC's staff liaison we discovered the following:

The last time the AAO asked these types of questions was in the 2017 North American Member Needs Assessment. That survey included the following questions:

1. Are there specific topics not currently covered by the AAO's continuing education for which you would like to see courses offered? Excellent question to be added in a possible MASO survey.
2. What programs, services and/or benefits would you like to see the AAO offer in addition to or instead of the organization's current benefits?
3. What are the most important issues affecting the orthodontic profession over the next 3-5 years?
4. What are the most critical needs you or your practice will have over the next 3-5 years?

He believes that this survey was done so long ago that it likely does not accurately represent members' current perceptions and feelings.

The AAO has the resources to deliver

- Webinars for doctors
- Webinars for staff
- Commercial endorsements - Avis, Hertz, Starbucks, banks, etc.
- Frequent electronic newsletters - clinical and/or local news
- The maintenance of records of all our CE credits

MASO can enhance all of the above.

We definitively need to explore and expand the concept of Residents Champions. We could invite them to our Annual Session Board meeting or a New and Younger Member meeting with the Board and/or the Delegation. The MASO leadership have a responsibility to mentor and engage Constituency residents.

Ways to engage residents:

- Annual Session moderators
- Annual Session and Spring CE presentations on scientific material.
- Meetings with our Board and Delegation

Possible survey:

1. What topics would you want MASO to include in our annual sessions and/or Spring CE?
2. What programs, services, and/or benefits would you like to see MASO offer?
3. Any ideas for improvement of our annual sessions and/or Spring CE event? ■

MASO STRATEGIC PLAN REPORT “ENHANCE COMMUNICATIONS TO MEMBERS” MARCH 2020

Objective: MASO will tailor communications to members to make them more meaningful.

In response to MASO Board consensus that the format of the MASO *Journal* improve communication with our membership and increase its relevance, we are recommending the following changes.

1. Eight editions of the *Journal* produced under the direction of the editor and three assistant editors : one hard copy/ seven digital editions
2. March, April, May, October, November- Assistant editor: Five digital editions; literature highlights: AJODO, AO, EJO, J. Clin Ortho, J. of Perio, J Prost. Dent.
 - one resident from each of the residency programs will be responsible for the selection of the most relevant article from the assigned journal.
 - selected articles will be summarized in 150 words or less by the resident with a focus on it's clinical/scientific relevance.
 - the reader will have the option to hyperlink to the full text article if interested.

- the journals will be rotated annually to each program
 - residents will be compensated with a stipend for their contributions and will be recognized as associate editors.
3. June-Assistant editor: Annual digital Research edition- research conducted by residents from all MASO programs: Residents/ faculty
 - the edition will publish abstracts of all research projects with a hyperlink to the full text of the study.
 4. September edition(Hard Copy) editor: MASO leadership news: AAO, MASO, Components, Awards, President's message, Trustee message, possible changes and comment.
 5. December edition-Assistant editor: Annual digital Case Presentation edition- best case from each MASO residency program: residents/faculty.

Possible consideration-an award will be given to the overall best case as electronically voted by the MASO membership.

The additional digital editions can be implemented incrementally with consultation with department Chairs and Clinical Directors. ■



NOMINATING COMMITTEE REPORT

Dr. Normand Boucher
nsjboucher@gmail.com

The slate was presented to the Board by the Nominating Committee Chair, **Dr. Normand Boucher**, during the MASO Board Meeting Conference Call on June 3, 2020 ET and was approved by the Board. Dr. Boucher will confirm appointments to be posted in the MASO Journal, prior to approval by membership during the Annual Session MASO Member/Business Meeting Friday, September 11, 2020.

MASO Strategic Plan:

- Enhance Communications to Members and the Public
- Elevate Knowledge and Expertise
- Advance Organizational Effectiveness
- Engage Members and Provide Value

The Nominating Consists of eight (8) members: The Immediate Past President, the prior immediate past president, and six members, one from each MASO component. The President of each MASO component, or a designee, is given preference for this position. The senior Past President is Chairperson of the Committee. Each is to serve for one year.

Nominating Committee Members for 2021

1. Dr. Normand Boucher (PA), Prior (senior) Immediate Past President, Chair
2. Dr. Russell Sandman, Immediate Past President
3. Dr. Jean Asmar, representing D.C.
4. Dr. Anna Muench, President MD
5. Dr. Brianne Flagg, President DE
6. Dr. Christopher Overcash, President NJ
7. Dr. Milton Matos, President PR
8. Dr. Tejj Thomas, President PA

Elections are held at the Annual Session during the General Membership meeting. (Term year: Annual Session to Annual Session) Directors, in general, will serve for a total of six years (two three-year terms) before becoming eligible for the position of President-Elect. Under special circumstances, a Director/Officer may continue on the Board for one additional year to maintain the order of succession.

EXECUTIVE COMMITTEE

PRESIDENT: Dr. Francis Picon (PR)2020-21
 PRESIDENT ELECT: Dr. Madeline Goodman (MD)2020-21
 SECRETARY: Dr. Alireza Omid Rajaei (MD)2020-21
 TREASURER: Dr. Dave Harmon (MD).....2019-21
 IMMEDIATE PAST PRESIDENT: Dr. Ty Saini (MD) 2020-21
 TRUSTEE: Dr. Steven Siegel (MD) 2019-21
 (Dr. Siegel started his 1st two-year term in May 2016)
 Trustee term limit: (max 4 two-year terms)

DIRECTORS

As a result of the newly adopted Bylaws, Directors now serve two three-year terms:

1. Dr. Sana Augustus (DC).....2017-20
 (Will be starting the 1st year of her second 3-year term)
2. Dr. Paul Batastini (NJ)2018-21
 (Will be starting the 3rd year of his first 3-year term)
3. Dr. Lynette Garcia (PR)2019-22
 (Will be starting the 2nd year of her first 3-year term)
4. Dr. Tejj Thomas (PA)2020-23

DELEGATES (7)

Seven (7) delegates are elected to the AAO for a two-year term; no more than three (3) consecutive terms may be served; past delegates are required to wait one (1) year before being re-nominated.

1. Dr. Richa Dutta (MD)2019-21
 Dr. Dutta is currently completing her 2nd year of her 2nd two-year term.
2. Dr. Richard Albright III (PA)2019-21
 Dr. Albright is completing his 2nd year of his 1st two-year term.
3. Dr. Douglas Harte (NJ)2019-21
 Dr. Harte is completing his 2nd year of his 1st two-year term.
4. Dr. Jean E. Asmar (DC)2020-22
 Dr. Asmar is completing his 1st year of his 2nd two-year term.
5. Dr. Kathy Marshall (DC)2020-22
 Dr. Marshall is completing her 1st year of his 1st two-year term.
6. Dr. Richard Isaacson (NJ)2021-22
7. Dr. Ty Saini (MD)..... 2021-22

ALTERNATE DELEGATES (3)

Alternate delegates are elected to serve a one-year term; no more than two consecutive terms may be served before an individual is either elected as a Delegate or removed from the delegation. The MASO President will serve as the First Alternate and the MASO President-Elect as Second Alternate.

1. Dr. Francis Picon (PR) (As required by MASO MOP) 2020-21
 (MASO President)
2. Dr. Madeline Goodman (MD) (As required by MASO MOP) . 2020-21
 (MASO President Elect)
3. Dr. Anne O'Day (PA) 2020-21

MASO COMMITTEES

I. Communications/Publications

Consists of the MASO Editor and three (3) at-large members elected for a 3-year term.

1. Dr. Normand Boucher (PA) **Chair/Editor**.....2019-22
2. Dr. Anne O'Day (PA) 215-794-50022018-21
3. Dr. Nancy Pancko (DE) 302-658-73542019-22
4. Dr. Ryan Tamburino (PA)2020 -23
 (Nominated by Tejj Thomas)

II. Education/Research

Consists of three (3) members elected for a 3-year term.

1. Dr. Vanessa Morenzi (PA) 215-456-7136, **Chair**2018-21
2. Dr. Hyeran Helen Jeon (PA) 215-898-5792.....2019-22
3. Dr. Jeff Godel (PA)2020-23
 (Nominated by Norm Boucher)

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NOMINATING COMMITTEE REPORT

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III. Government Affairs

Consists of six (6) members, two to be elected each year, for a 3-year term.

Encouraged to attend the AAO Advocacy Conference in D.C.

NOTE: Chair to be elected by the Nominating Committee

1. Dr. Normand Boucher (PA) 215-450-4715 2018-21
2. Dr. Robert Mensah (MD) 732-532-9266 2018-21
3. Dr. Kathy Marshall (DC) 202-806-0015 2019-22
4. Dr. Adrienne Perry (M) 404-210-9760 2019-22
5. Dr. Chelesa Phillips (DC) 2020-23
(Nominated by Jean Asmar)
6. Dr. Milton Matos (PR) 2020-23

IV. Member Services: Membership/Ethics/ Practice Transition

Consists of five (5) members elected to a 5-year term

1. Dr. Vanessa Yu (PA) 210-260-4047 2016-21
2. Dr. David Bonebreak (MD) 410-799-8220 2017-22
3. Dr. Jose Vincens (PR) 787-633-6847 2018-23
4. Dr. Chelesa Phillips (DC), 713-256-1234, **Chair** 2019-24
5. Dr. Courtney Rubin (PA) 2020-25

COMPONENT NEWS



Maryland State Society of Orthodontists

submitted on behalf of
Dr. Anna Muench by Dr. Ty Saini

The MSSO spring meeting sadly was postponed until this fall due to the pandemic. We are still uncertain if we will be able to hold the meeting in person or virtually in the fall and are considering our options at this

time. The MSSO Fall meeting will be focused on the diagnosis, treatment, and management of TMD. We are excited to have three speakers for the event, Dr. Vanessa Benavent a TMD specialist in Clarksville, Dr. Megan Finnegan a Physical therapist and owner of ProMove PT Pain specialists, and Dr. Kelly Donahue a clinical psychologist to provide insight into this complex topic. The 2020 Board members are **Dr. Anna Muench** (President), **Dr. Brandon Hagan** (President Elect), **Dr. Ejiro Esi** (Treasurer/Secretary), and **Dr. Richa Dutta** (Director). ■



New Jersey Association of Orthodontists

Dr. Christopher Overcash
covercas@comcast.net

The New Jersey Association of Orthodontists held its second lecture of the 2019/2020 CE series on February 26 at the National Conference Center in East Windsor, NJ.

Dr. Rooz Khosravi and Mike Hendricks of uLab Systems presented the topic of *How Digital Orthodontics Can Change your Daily Practice*. At this full day lecture, digital workflow and in office 3D printing of custom aligners was discussed. A business meeting for board members was held during lunch.

Our most recent New and Younger Members event was hosted on March 5 at Stout in Midtown Manhattan. This fun evening of food, drinks and prizes was well received by local orthodontic residents and provided them the opportunity to engage with established NJAO members.

Many thanks to **Dr. Cassandra Kahn** for helping to organize this event. In addition, the NJAO is pleased to announce that **Dr. Pete Pisano** will be assuming the chair of the New and Younger Members Committee.

Unfortunately, due to the COVID-19 pandemic, the NJAO's annual session originally scheduled for April 24 was cancelled. We are currently arranging for this CE opportunity, and possibly upcoming CE events of the 2020/2021 lecture series, to be presented in virtual format. Information regarding this will be distributed to our members and also be included on our website, www.njbraces.org.

New Jersey has been one of the states most greatly impacted by the COVID-19 pandemic and navigating the numerous and often vague executive orders of the governor's office has been a source of frustration for our members. As we resume practice and care for our patients in a very different post-COVID era, the NJAO will continue to assist its members in every way possible so they are informed and comfortable while returning to the practice of orthodontics. As always, be well and stay safe! ■



Pennsylvania Association of Orthodontists

Dr. Tejy M. Thomas
tejjyt@gmail.com

It's been an eventful few months but we are glad to say that the wheels are turning again!

Our 'OrthoVISION 2020' meeting in April where we had **Dr. Antonino Secchi, Dr. Anil Idiculla, Dr. Daniel Bills** and **Dr. Ryan Tamburrino** scheduled to speak had its largest registration to attend in recent years. The residency programs in the state as well as over 100 practicing orthodontists were scheduled to attend. The event had to be cancelled due to COVID-19 closures and we have rescheduled the same to be held in April, 2021.

The PAO worked closely with the Pennsylvania Department of Health to set up guidelines and safety protocols to get our orthodontists in the state back to work in May of this year. We are happy to say that orthodontists in all counties of Pennsylvania are now back at work while following safety protocols and guidelines. Streamlining office efficiencies and systems seem to be a positive that has come out of this period.

Despite the challenges this year, everyone has pushed forward and realized that we work stronger together. It has been my honor to serve as President of the Pennsylvania Association of Orthodontists this past year and I pass on the baton to **Dr. Alfred De Prophetis** and look forward to seeing all of you at our meeting next year in Philadelphia.

Stay Strong and Stay Safe! ■



Puerto Rico Society of Orthodontists

Dr. Milton Matos-Maldonado

The Puerto Rico Society of Orthodontists (SEO) held a continuing education activity in January with Dr. David Harmon, from Mitchellville, Maryland. The full day course consisted of two sessions. The morning session was titled "Taking Control of your

Orthodontic Future by Using 3D Printing Technology and In-House Aligners". The afternoon session was titled "The Principles and Practice of using electrosurgery to create curb appeal". We had great attendance and SEO attendees thoroughly enjoyed the lectures. Dr. Harmon's experience, knowledge, and generosity was evident throughout. A great many thanks to him for sharing his time and knowledge with us.

At the end of February, SEO hosted a Valentine's Day themed cocktail hour event on the rooftop of OLV, a boutique hotel in the heart of San Juan. It was a great opportunity for colleagues and friends to share ideas and enjoy the many blessings of our specialty. The event was well received and resulted in a high attendance. The sunset and rooftop evening views of

the Condado Lagoon in San Juan were just a few of the many highlights of this SEO event.

Our society has used the many challenges of the coronavirus pandemic to grow closer, share information and notes on how to adapt to the new realities within our profession. A majority of SEO attended the AAO Virtual Conference which provided a wealth of current, relevant and useful information for our trying times.

With great sadness, we must report the passing of **Dr. Milton L. Matos-Maldonado**, past president of our Society, graduate program professor, and practicing orthodontist for almost 45 years. Dr. Matos-Maldonado was also the father of two orthodontic members of our society, **Dr. Carmen Matos** and myself. Despite the deep personal loss, we drew strength from the many messages of our colleagues whom he inspired throughout his long career. Dr. Matos was known particularly for his selflessness, graciousness, generosity and jovial nature. He was always planning his next adventure, never letting physical ailments disrupt his spirit. His legacy endures in the many smiles he created over the years, his impact on the residents of the local orthodontic graduate program, and the many friendships within the specialty. And so in the words of the late Sen. Edward Kennedy "The work goes on, the cause endures, the hope still lives, and the dream shall never die." ■



Dr. Milton Matos-Maldonado



Dr. Milton Matos-Roman, Dr. David Harmon, Dr. Ricardo Santana



Dr. Milton Matos-Roman, Dr. Milton Matos-Maldonado, Dr. Carmen Matos-Roman



ALBERT EINSTEIN MEDICAL CENTER

Dr. Vanessa Morenzi

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Resident Activities

Our rising second-year residents, **Drs. Yee Seul Chun, Michael Kotecki** and **Gannon Van Allen** graciously welcomed those who entered our program on June 25, 2020. They are:

- **Dr. Mordechai (Mordy) Fried** who completed his bachelor's and master's degrees in bioengineering at the University of Pennsylvania. He continued on at the University of Pennsylvania for his dental education.
- **Dr. Justin Middleberg** who completed his undergraduate degree in Biological Sciences from Pennsylvania State University. He earned his degree in Dentistry from Temple University Kornberg School of Dentistry.
- **Dr. Madeline Pitz** began her post-graduate training by completing a General Practice Residency at Montefiore Medical Center. Madeline received her dental education at NYU College of Dentistry, and her undergraduate degree at St. John's University.

We extend our gratitude to the members of the Selection Committee – **Drs. Alan Borislow, Peter Greco, Courtney Rubin, Mark McDonough, Michael Roth, Justin Silvestre** and all members of the faculty, the residents and selection committee. We also sincerely thank each of our **volunteer and part-time faculty** for their invaluable support and dedication to the program and for the education of our residents. Without the valued commitment of the part-time faculty, it would be almost impossible to provide a quality educational experience. We are indebted to each of our community-based clinicians who give of their time to teach and mentor our residents.

As a third-year resident, **Dr. Reem Abdulrahman**, presented her research poster at the Greater NY Dental meeting in NYC in November 2019 as well as at the

Albert Einstein Medical Centers Research Recognition Week in April 2020. Her research was entitled “CBCT Evaluation of the Dentoalveolar Effects of Bone-Tissue Supported Rapid Palatal Expansion on the Transverse Dimension of the Maxilla”. In February 2020, Dr. Abdulrahman also submitted a fully treated clinical case report to the Albert Einstein Medical Center Case Report Competition, that spanned all disciplines and departments within the hospital, and her case report was chosen as a finalist. She presented her case report as a poster presentation alongside the other medical disciplines within the hospital.

During her time as a third year resident, **Dr. Catherine Lowry** presented her research as an E-poster at the virtual AAO this year and she was scheduled to present her research at the American Cleft Palate Association (ACPA) annual meeting in March before that meeting was cancelled due to the pandemic. Her research is titled “A Comparison of Alveolar Bone Graft (ABG) Outcomes After an Inter-center Comparison with Peer-Benchmarking led to a Change in a Center's Protocol to Earlier Grafting in the Late Primary Dentition Prior to Orthodontic Intervention”.

Dr. Juliana Zoga had her completed orthodontic case report chosen as a podium finalist in the Albert Einstein Medical Center Case Report Competition. Her presentation was titled “Severe Anterior Open Bite Presenting with a History of Craniofacial Anomalies” and was presented on February 20, 2020. Dr. Zoga's research project is titled “Evaluation of Maxillary Skeletal Expansion on Airway Dimension and Head Posture: A Pilot Study”, and was presented to Einstein faculty in April 2020. Dr. Zoga's work was recently referenced in Dr. Mary Burns' AAO presentation at the Virtual Annual Meeting in May 2020.

Second-year residents, **Dr. Yee Seul Chun** and **Dr. Gannon Van Allen** have a combined research project to provide an “Investigation Into the Predictive Value of Malocclusion Indices and Insurance Acceptance for Orthodontic Treatment.” The purpose of the study is to investigate the correlation, if any, between the insurance approval rates for orthodontic treatment and the measured orthodontic need determined by various indices such as the Salzmann, Avesis, AAO-MNOC, and IOTN for patients seeking care in Philadelphia, Pennsylvania. Dr. Michael Kotecki will be investigating the “Reliability of Invisalign's Bolton

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ALBERT EINSTEIN MEDICAL CENTER

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Analysis” and will be evaluating the accuracy of the Bolton ratios provided on the Invisalign ClinCheck. We will compare physical study models and 3D scans with Invisalign’s measurements of tooth size discrepancy.

Program Graduate Activities

For our most recent graduation Class of 2020, **Dr. Reem Abdulrahman** will be entering private practice. **Dr. Catherine Lowry** has joined a private practice in Folsom, California. **Dr. Juliana Zoga** has entered private practice in the Philadelphia area and has been invited to join the teaching staff at Einstein Medical Center in the Division of Orthodontics. Each member of the Class of 2020 is grateful to their faculty and teachers for their unending, and generous, efforts in preparing them to enter the orthodontic profession.

Faculty Activities

We wish to thank and offer our congratulations to our Associate Program Director, **Dr. Michael Roth**, for his ceaseless efforts in helping to guide our program through the COVID-19 crisis. Our residents, in conjunction with the Einstein Dental residents in Endodontics and General Practice, pivoted quickly from ‘business as usual’ to “emergent only” care for our patients-in-need; as well as providing emergent care for orthodontic patients from the neighborhood, and surrounding programs, during the shelter-in-place orders. As a program, we were able to quickly move from in-person seminars and conferences to virtual learning within 24 hours of our clinic move to ‘emergent only care’. We thank everyone - faculty and friends - who offered their time and talents to the residents so that their didactic learning could continue. The expanded, robust, didactic schedule allowed us to truly stress concepts and nuances that may have gotten lost in the day-to-day stresses of our residents trying to juggle their assigned readings, conferences, diagnosis and treatment planning, patient care, and patient management issues as new learners. Our program was able to quickly adapt early in the crisis to using Teledentistry by modeling the actions of our fellow medical center attending faculty and residents to the benefit of our patients. The faculty and leadership are convinced that our residents, and

graduates, will be stronger, more resilient, and better clinicians for having gone through this crisis with the aid of their faculty.

Prior to the crisis, at the request of our institution, Orthodontics completed a program complement change that allows us to maintain a total of six residents every year in our three year program. As a result of this complement change, we re-evaluated each of our didactic and clinical courses to insure that our residents were receiving the most vertically, and horizontally, integrated curriculum that we could provide. The faculty has come away from this process renewed and recharged in helping to educate the future members of our profession.

We congratulate, and thank, each of our faculty on their many and varied gifts and talents which they graciously provide to our profession and to our communities. We offer our heartiest congratulations to our faculty member, **Dr. Mary Burns**, for her informative and extremely well received lecture at the AAO Virtual Annual Meeting 2020 entitled “The Role of Orthodontics in Early Diagnosis and Intervention of Sleep Disordered Breathing”. If you missed Mary’s live presentation, it will be available shortly on the AAO website. Mary Burns is the director of our courses in Growth and Development and the Biology of Tooth Movement.

A few of the other faculty who also donate their time and talents to our profession include, **Dr. Paul Adams** who currently serves as President of the Greater Philadelphia Society of Orthodontists (GPSO) and who will host this November’s annual meeting featuring Dr. Lisa Alvetro. At this time, there are discussions underway to determine the optimal manner in which to keep everyone in the GPSO constituency safe as well as to continue to provide state of the art speakers. More information will be forthcoming from them in the future. In addition to Paul Adams, **Drs. Steven Cohen, Matthew Etter, Chuck Gemmi**, and **Mark McDonough** serve as GPSO board members.

All are welcome to come and visit us at Albert Einstein Medical Center. We are proud of our legacy and the residents that we are educating today who will become tomorrow’s clinical and professional leaders. ■

GRADUATE PROGRAM REPORTS



HOWARD UNIVERSITY

Dr. Kathy L. Marshall

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As Howard University Orthodontic Program celebrates its 51st Graduating Class, we congratulate our 2020 FIRST VIRTUAL Graduating class for completing the program and taking the VIRTUAL ABO Written examination! Listed below are their research theses we wish to present next year at the AAO Annual Session and Howard University Research Week:

Dr. Karsten Craven – *The Relationship Between Foreign Trained Dentists and International Dental Students and the acceptance to Treat Underserved Populations Post Residency*

Dr. Trenton Davidheiser – *Does Student Loan Debt Dictate the Specialist's Practice: The Decision of Choosing Private Practice or Corporate*

Dr. Bianca Frederick – *The Role of Insufficient Lingual Range of Motion in Patients with Sleep Disordered Breathing*

Dr. Spencer Joseph – *Burnout in Predoctoral Dental Students and Post Graduate Dental Residents*

Dr. Janelle McQueen – *The Impact of Media Exposure on Facial Profile Preference*

Dr. Omosede Osagiede – *Association of Bruxism, Airway Issues, Skeletal Pattern and Gender with the Presence of an Airway Obstruction*

Dr. Ruben Vilorio – *Effect of Selective Serotonin Re-Uptake Inhibitors and Serotonin Norepinephrine Re-Uptake Inhibitors on Bone Trabecular Pattern, Bone Density, and Periodontal Ligament on Patients Receiving Orthodontic Treatment*

Our new second-year residents continue to matriculate, contemplating the virtues of virtual conferences and courses. They are exploring teledentistry and gaining proficiency in teaching through distance learning.

This summer we Virtually welcome our first-year residents:

Dr. Richard Byrd, University of Michigan graduate from Virginia

Dr. John Bushrod, Howard University graduate from Washington, DC

Dr. Andrew Chun, Howard University graduate from Washington, DC

Dr. Javen Durham, Meharry Medical College graduate from Michigan

Dr. Dorian Solomon, Meharry Medical College graduate from Florida

Dr. Donna Thomas, University of North Carolina graduate from North Carolina

We continue to celebrate our mission and our institution, and provide opportunities for exemplary education, service and research that promote patient centered, collaborative care and advocacy for the elimination of health care disparities. ■



RUTGERS SCHOOL OF DENTAL MEDICINE

Dr. Thomas Cangialosi

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The Spring semester started out normally in January but quickly became chaotic due to the COVID-19 pandemic. On March 18, our clinical activities were suspended for all elective procedures except for emergencies. Some of our postgraduate students volunteered to handle emergencies along with a faculty rotation. All our lectures and case conferences were done remotely by WebEx and many guest lectures and seminars were presented via Zoom by courtesy of the Eastern Component of the Edward H. Angle Society and others.

Our graduating residents completed their thesis defenses and oral clinical final exams remotely and were able to graduate on time on May 18. Their graduation was virtual and we are proud to welcome into the Orthodontic

community **Dr. Brittany Ang**, **Dr. Daniella Davis**, **Dr. Rebecca Eis**, **Dr. Jennifer Ko** and **Dr. Leah Vernacchia**.

Our second-year residents took the postponed ABO written exam remotely by Scantron on June 5 and 6. First and second-year residents were able to resume limited clinical activities on June 8 with a rotation of five students per clinic session to keep the patient load low initially. Another problem encountered by the school was the temporary conversion of the Pediatric Dentistry clinic to a hospital facility for the treatment of COVID-19 patients due to overcrowding in University Hospital. This also impacted both the Periodontic and Orthodontic clinics which have had to share clinic and office facilities with Pediatric dentistry.

I want to thank all our full and part time faculty and residents who have, thus far, gotten through all this with a great spirit of patience, good humor and cooperation. ■

GRADUATE PROGRAM REPORTS



TEMPLE UNIVERSITY

Dr. Jeffrey H. Godel

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Temple University Kornberg School of Dentistry Department of Orthodontics faculty and staff continue to enjoy the excitement and terrific achievements provided by the residents over the past several months.

Navigating through these difficult and unrepresented times has been a real challenge. The residents were remarkable with their flexibility and endurance. We condensed the remainder of our spring-summer didactic curriculum into Zoom presentations while in quarantine. This allowed the residents to return to clinic and only concentrate on patient care. The clinic re-opened on May 28th. It was an exciting time; the residents were elated as well as were our patients.

The Class of 2021 is as follows: **Lori Herman, Stephen McCown, Patrick Moran, Lisa Jolly, Lauren Pinkus** and **Zachary Dispirito**. Unfortunately these residents missed the opportunity to attend the Tweed foundation course as well as the GORP meeting. Nevertheless, we have high hopes they will be able to enjoy this experience in the future. They are also busy preparing to pass the baton becoming the “big sibs” for the incoming class of 2022.

The Class of 2020 consists of **Fred Arino, David Carpinello, Alison Clark, Alex Rosner, Noor Tarazi** and **Brandon Zipper**. They successfully

defended their Master’s Theses in June and will graduate in August.

The Class of 2020 completed the following research projects:

Fred Arino: *Efficacy of SureSmile® Archwires in Implementing Predicted Clinical Outcomes*

David Carpinello: *Prevalence and Patient Self-Awareness of Malocclusions in African Americans*

Alex Rosner: *Assessing Reliability of Salzmann Index Scoring Amongst Orthodontists in Pennsylvania*

Noor Tarazi: *Pre-Doctoral Orthodontic Online Learning Effects on Clinical Decision Making*

Brandon Zipper: *Contemporary Dimensional Analysis of Dentitions using Intraoral Scans*

Allison Clark: *Improving Oral Hygiene in Adolescent Orthodontic Patients with SBIRT- Based Intervention*

We wish them success and long careers in our wonderful profession. We also look forward to them contributing and “giving back” to the orthodontic profession.

The Class of 2022 arrived in July to begin their journey into the world of orthodontics. The new class is comprised of Temple graduates **Ashtyn Goordeau** and **Ashima Sharma**. In addition, we have **Sara Zadmehr** from UCLA, **Micheal Karp** from Nova University, and **Avigael Lerman** and **Justyn Park** from UCSF.

Finally, on behalf of our Department, I would like to express our appreciation to the outstanding group of adjunct faculty and alumni who helped make this year possible. ■



UNIVERSITY OF MARYLAND

Dr. Jose Bosio

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Cheers to all from the University of Maryland School of Dentistry (UMSOD).

I am writing this report from my bedroom, partially transformed into my office since the beginning of COVID-19 Pandemic. While we lament the thousands of lives lost, we try to survive in this new world “during” and “post” 2020 Pandemic. Re-inventing ourselves and transforming everything around us into digital format – immune to “the virus” – to keep our orthodontic

departments entertained, motivated, positive, and most of all, hopeful of a better future.

This *MASO Journal* report issue is dedicated to those educators who graciously volunteered their time and expertise to educate our residents. As of June 12, UMSOD orthodontics had delivered more than 100 Webex/Zoom online education sessions (more than 160 hours of education) to our residents. Special thank you needs to be given to all UMSOD faculty who contributed to the delivery of these online sessions, including **Drs. Monica Schneider, Dina Stappert, Eung Pae, David Harmon, Viney Saini, Jeff Jarvis, Ignácio Blasi, Ty Saini, Jeff Posnick, Phil Markin, Fred**

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UNIVERSITY OF MARYLAND

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Preis, Ed Morris, Edgard Sweren, Steven Siegel, Christopher Liang, Byron Bonebreak, Stuart Sheer, Gary Warburton, Tom Barron, and Sheldon Preston.

Furthermore, I also want to thank the following educators from other institution and private practice orthodontists (in the order which they presented): **Neil Kravitz, Robert Montemurno, Tim Tremont, Scott Kanas, David Sarver, Edward Zebowitz, Flavia Artese, Jorge Faber, Christin Groth (via AAO), Eustaquio Araujo, Kristin Nelson, Cole Johnson, Doug Depew (via AAO), Alfred Griffin Jr., Helder Jacob, Celestino Nobrega, Peter Buschang, Andre Weissheimer, Paul Tran, Lucia Cevitanes, Marcos Lenza, Russ Kittleson, Nelson Mucha, Gonzalo Blasi, Carlos Flores-Mir, and Roberto Justus.**

Our third-year residents, **Drs. Atefeh Boroun, Sheng Ge, Hyun San Lee, and Elizabeth Ottey** took upon themselves to be the first residents ever to have their Master thesis defense and their formal graduation oral examination via WEBEX online application. Our faculty members could participate as examiners from their home, and the experience was approved by all. They will graduate on June 30 and pursue private practice in different regions of the country.

Our second-year residents, **Drs. Anh Dao, Ariana Feizi, Jessica Kocan, and Natalie Miller** will endure their first ever ABO online examination, which was postponed to June 5 and 6. And our first-year residents, **Drs. Elise**

Tigani, Kelsea Ashton, Syed Hussain, and Matthew Vumbach, had the opportunity to prepare and present via WEBEX all their cases which they had initial records taken. Great online education opportunity.

In April, we also graduated our international student **Dr. Maha Asiri**, from Saudi Arabia, and on June 30 **Drs. Farah Aldawood**, also from Saudi Arabia, and **Tin Kiaw Latt**, from Myanmar, will graduate from our international program for foreign trained dentists in the division of orthodontics.

Exciting times for Orthodontics at UMSOD. Please remain vigilant, keeping social distance, washing your hands, and protecting yourselves. Hellen Keller (1880-1968) once stated "Optimism is the faith that leads to achievement. Nothing can be done without hope and confidence". Thus, this is all we need now – OPTIMISM – HOPE – CONFIDENCE.

On a final note, the titles of the master thesis for the residents from UMSOD are as follows:

1. **Elizabeth Alston Ottey** - *Variation in Accessory Branches of the Mylohyoid Nerve in the Posterior Mandible: An Anatomic Study*
2. **Atefeh Rezaei Boroun** - *Tongue Position in Glossectomy Patients vs. Controls in /s/ during Speech with consideration for the effects of Palatal Features*
3. **Sheng Ge** - *Metformin Induces Pro-angiogenic Responses in Dental Pulp Stem Cells: Potential Applications in Craniofacial Bone Regeneration.*
4. **Hyun San Lee** - *The Effect of Delayed Curing Time of a Self-etching Primer on Shear Bond Strength of the Orthodontic Bracket.*

Thank you. ■



UNIVERSITY OF PENNSYLVANIA

Dr. Chun-Hsi Chung
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Our comprehensive clinic and didactic Orientation Program for the new residents will begin on July 6, 2020 as we welcome our incoming Class of 2022.

26-month Orthodontics Certificate Program

- **Nicholas Batastini**
- **Stephanie Chen**
- **Marie-Elena Cronin**
- **Olivia Griswold**
- **Jingyi Wang**
- **Erica Weinberg**

3-year Orthodontics Certificate/Masters Program

- **Jia-Hong Lin**

4-year Periodontics and Orthodontics Certificate Program

- **Nour Hobani**

5-year Orthodontics Certificate/Doctor of Science in Dentistry Program

- **Wenjing Yu**

Due to the recent pandemic, we have been conducting all didactic courses virtually since March 13, 2020. Our clinic closed on March 13 and reopened on June 8, 2020. A number of programs that our residents would typically attend have been cancelled, such as the Tweed Course in April and the GORP (Graduate Orthodontic Residency Program) in August. Our second-year residents took the written ABO exam in June, which needed to be rescheduled from the original April date.

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GRADUATE PROGRAM REPORTS

UNIVERSITY OF PENNSYLVANIA

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On June 18th, **Dr. Douglas Kim**, our third-year resident will virtually present his Master of Science in Oral Biology thesis to the faculty: "Comparison of Bone- and Tooth-Anchored, Bone-Anchored, and Surgically Assisted Bone-Anchored Rapid Maxillary Expansion: A Pilot Retrospective CBCT Study." His research advisors are **Dr. Hyeran Jeon** and **Dr. Chun-Hsi Chung**. In addition, **Dr. Daniel Berant**, our fourth-year resident will present his research: "Associations Between Gingival Recession and Inclinations of Maxillary First Molars and the Alveolar Bone in Orthodontically Untreated Individuals" in partial fulfillment of Certificates in both Periodontics and Orthodontics. His research advisor is **Dr. Normand Boucher**.

On July 22, our graduating residents in 26-month Program will present their research in partial fulfillment of Certificate of Orthodontics:

Dr. Anthony Albert – *Shear Bond Strength of a Novel Porcelain Bonding Protocol*

Faculty Advisor: **Dr. Fran Short**

Dr. Lam Bui – *The Effect of Intraflagellar Transport Protein IFT80 in Osteocytes during Orthodontic Tooth Movement*

Faculty Advisor: **Dr. Helen Jeon**

Dr. Michael Hayes – *Effects of Bonded and Hyrax Rapid Palatal Expanders on the Transverse and Vertical Dimensions of the Maxilla and the Nasal Cavity*

Faculty Advisor: **Dr. Normand Boucher**

Dr. Rebecca Lee – *The Effect of Intraflagellar Transport Protein IFT80 in Osteocytes on Bone Density During Physiologic Loading and Orthodontic Tooth Movement.*

Faculty Advisor: **Dr. Helen Jeon**

Dr. Nishat Shahabuddin – *Effectiveness of Invisalign in Deep Bite Cases*

Faculty Advisor: **Dr. Helen Jeon**

Dr. Yoonhee Wang – *Relationship of Dental Marginal Ridges and Root Angulation: A Retrospective Cast and Radiographic Study*

Faculty Advisor: **Dr. Nipul Tanna**

Our J. Henry O'Hern annual Orthodontic Alumni Day will be held Virtually on Friday, October 30. This year's speakers will be Dr. Peter Ngan and Dr. David Musich. CEU credits will be available. Program information and registration will be available online sometime soon at http://www.dental.upenn.edu/continuing_education/course_schedule/penn_ortho_alumni_day. ■



UNIVERSITY OF PUERTO RICO

Dr. Jose Morales-Diaz
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The University of Puerto Rico (UPR) Orthodontic Graduate Program has had a successful year despite challenges. Last year, in August 2019, our residents presented the lecture titled "Innovations in Orthodontics: Laser, Scanner and Virtual Treatment Planning." In September, all residents and several faculty members traveled to Ft. Lauderdale in order to participate in last year's MASO meeting. In October, The UPR School of Dental Medicine gave us the honor of presenting the grand rounds. The topic discussed was *Diagnoses and Management of Early Age Malocclusions*. This grand round was dedicated to the late **Dr. Milton Matos Sr.**, in honor of his important contributions to our program, as well as the UPR School of Dental Medicine. After finishing all didactic and clinical activities for the Fall semester, the program celebrated with a Road Trip and a Christmas Party, held in the beautiful **Drs. Hernandez Orsini-Irizarri** home.

The UPR Orthodontic Graduate Program presented two posters at The Dental Congress of the Caribbean in San Juan, Puerto Rico in February 2020. During February as well, the ADA-CODA accreditation site visit took place with successful results for our program. For the following months of March, April and May, the Government of Puerto Rico established a lock down due to the COVID-19 pandemic. Residents and Faculty Members were instructed to take all the necessary precautions. Virtual webinars, case presentations, workshops and lectures were offered from home. Last May, our Chief Resident, **Dr. Carina Perez-Cisneros**, presented the e-Poster "The Art of Multidisciplinary Approach of a Cleft Palate Patient" during the First Virtual AAO Annual Session. Furthermore, Dr. Perez-Cisneros defended her thesis on May 27, titled "Comparison of the Effects of Micro- Perforations and Corticotomy on Patients with Extraction of Maxillary First Premolars-A Split Mouth Design Randomized Controlled Clinical Trial."

Finally, I would like to welcome our incoming residents: **Dr. Natalia Llaurador** from Puerto Rico, and **Dr. Christina Cushman** from Seattle! ■

Dr. Normand Boucher, Editor

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UPCOMING EVENTS



November 4-7, 2021

MASO Annual Session

WYNDHAM GRAND RIO MAR • PUERTO RICO



February 12-14, 2021

AAO Winter Conference

JW MARRIOTT DESERT SPRINGS RESORT
PALM SPRINGS, CA



April 24-27, 2021

AAO Annual Session

BOSTON, MA



September 22-24, 2022

MASO /NESO Annual Session

MARRIOTT PHILADELPHIA • PHILADELPHIA, PA