



College of Dentistry

05/17/2022

Re: Annual Updates from UIC Orthodontics

Dear Colleagues, Friends, and Alumni,

On behalf of the UIC Department of Orthodontics, I would like to thank all of you for your continued support to the Department and making UIC Orthodontics shine. I take this opportunity to update you about our activities in the Department since July 2021. First of all, I would like to start off by congratulating our Class of 2022 (Drs. Raj Desai, Peter Durbin, Matan Farhi, Jessica Hedger, Karen Homsy, Ruidan Ma, Vivian Snider, Samim Taraji, and Michael Yang). We have graduated yet another outstanding cohort of orthodontists who I am confident will evolve as outstanding clinicians and serve their communities with distinction.

Our faculty have been very busy publishing articles, writing book chapters, editing textbooks, submitting grant proposals, rendering service at various capacities at the regional and national levels, and imparting education to our residents. It gives me great pleasure to summarize the achievements of our faculty members. In a recent publication in AJODO, UIC Orthodontics was ranked #2 in the world amongst institutions of origin with ≥ 2 most cited articles in orthodontics. Five articles published by authors affiliated to UIC Orthodontics in past three years were ranked at 90th percentile and above by NIH ICite field adjusted citation metrics. These are a few examples of how scholarly work from UIC Orthodontics has helped move science forward. Since July 2021, our department published 14 original research articles in peer-reviewed journals and five book chapters/books. We had 21 presentations at the 122nd Annual session of American Association of Orthodontists, Miami Beach - FL), two presentations at the AADOCR meeting, one presentation each at American Association of Biological Anthropologists Annual Meeting and Annual Meeting of The Eastern component of the Edward H. Angle society of Orthodontists. We had six funded grants/contracts this past year. This includes four American Association of Orthodontists Foundation (AAOF) awards. We obtained the highest number of AAOF awards in year 2022. If you recall, we received the highest number of AAOF awards in year 2021 and the second highest number of awards in years 2020 and 2018. What is most gratifying is that three of our current residents (Drs. Emelia Karkazis and Youngjae Sung mentored by Dr. Phimon Atsawasuwan and Dr. Sarah Kahng mentored by Dr. Mohammed H. Elnagar) and an early career full-time faculty member (Dr. Maysaa Oubaidin) won the AAOF awards. This bodes well for the future of UIC Orthodontics and our profession. Our faculty members also gave 26 invited talks at local/regional/national/international levels. All these are phenomenal achievements that have brought laurels to UIC Orthodontics in the international landscape. Dr. Mohammed H. Elnagar (Assistant Professor), Dr. Christina Nicholas (Assistant Professor and Director of MS Oral Sciences Program), and Dr. Flavio Sanchez (Assistant

Professor) successfully underwent a mid-probationary review and have made wonderful progress to obtain tenure and promotion.

Dr. Budi Kusnoto (Professor, Program and Clinic Director of Post Graduate Orthodontics) was the chief architect of our CODA site visit. The site visit was very successful and several verbal commendations were made. A few of them included: strong support of UIC orthodontics alumni; outstanding research enterprise; state of art clinic and research facilities; and overall an excellent educational experience for the residents. Our clinic production has recovered very well and we are operating at 100% capacity. Dr. Kusnoto was recently recognized in an article published in AJODO as being amongst the top 10 authors in the world with ≥ 2 articles in the 100 most-cited articles in the field of orthodontics in the last 20 years. Thanks to his wonderful leadership of the UIC Orthodontics residency program!

Dr. Maria Therese Galang-Boquiren (Associate Professor and Director of Pre-Doctoral Orthodontics) graduated from the ELAM Fellowship program in May 2022 and from the UIC MBA program in January 2022. The ELAM program is an intensive one-year fellowship of leadership training with extensive coaching, networking and mentoring opportunities aimed at expanding the national pool of qualified women candidates for leadership in academic medicine, dentistry, public health and pharmacy. Dr. Galang also successfully completed the American Association of Dental Sleep Medicine's Mastery Program. She is now a Diplomate of the American Board of Dental Sleep Medicine! Dr. Galang has been reappointed as member of the American Academy of Dental Sleep Medicine (AADSM) Scientific Committee. She also serves on the Board of Trustees of the Illinois Sleep Society and was elected as Secretary-Treasurer of the Illinois Society of Orthodontists. Dr. Galang successfully hosted the Pain and Sleep Symposium in September 2021, with attendees spanning five continents.

Dr. Phimon Atsawasuwan (Associate Professor and Associate Director of Orthodontics Clinical and Translational Sciences Research in the Department of Orthodontics) was selected into the 2022 Chairs and Academic Administrators Management Scholarship from American Association of Orthodontists and was selected as an Active Member of the Eastern component of the Edward H. Angle society of Orthodontists in April 2022. Dr. Atsawasuwan served as an ad-hoc reviewer for NIH's Oral, Dental and Craniofacial Sciences Study Section. Two of his mentees (Drs. Emelia Karkazis and Youngjae Sung) won the 2021 Dr. Alan Brodie Craniofacial Endowed Chair Awards.

Dr. Mohammed H. Elnagar (Assistant Professor) completed the Executive program and obtained a certificate in "Artificial Intelligence in Health Care" from the Massachusetts Institute of Technology, Sloan School of Management (Cambridge, MA) in August 2021. He was elected as Editor of the American Association of Orthodontists Society of Educators and was nominated to represent the Midwestern Society of Orthodontists at the American Association of

Orthodontists 2022 Leadership Development program. One of his mentees (Dr. Karen Homs) won the 2021 Dr. Alan Brodie Craniofacial Endowed Chair Award.

Dr. Christina Nicholas (Assistant Professor and Director of MS Oral Sciences Program) won the prestigious 2021-2022 UIC Teaching Recognition Program Award. She serves as Treasurer for the Dental Anthropology Association, Committee Member of the American Association of Biological Anthropologists 2022 Annual Meeting Program Committee, and Chair, ad hoc MS in Oral Sciences Illinois Board of Higher Education External Review Committee (UIC). One of her mentees (Alysaa Ramos) won the first place oral presentation at the Illinois Louis Stokes Alliance for Minority Participation 2022 event.

Dr. Flavio Sanchez (Assistant Professor) took the lead in developing an outstanding International Bioprogressive program. The first group of attendees (from France) will complete this course in May 2022 and we anticipate hosting groups from Brazil and Thailand in the coming months. Dr. Sanchez has developed exhaustive course materials in the Bioprogressive Treatment Philosophy.

Dr. Maysaa Oubaidin (Clinical Assistant Professor and Associate Director of Post Graduate Orthodontics) was selected into the “ADA Institute for Diversity in Leadership” program. She won the AAOF’s Orthodontics Faculty Development Fellowship Award for her project titled “Impact of COVID-19 Induced Closure of Dental Practices on Orthodontic Outcomes”. Dr. Rebecca Tsuei (co-mentored by Drs. Maysaa Oubaidin and Min Kyeong Lee) won the 2021 Dr. Alan Brodie Craniofacial Endowed Chair Award. Dr. Oubaidin organized the visiting lecture series at UIC Orthodontics wherein in the past one year we hosted 25 lectures given by faculty/speakers affiliated to different programs across the world.

Dr. Min Kyeong Lee (Visiting Clinical Assistant Professor and Robert and Donna Litowitz Term Chair) has done a phenomenal job in leading our work in the arena of Big Data Analytics and Personalized Precision Craniofacial Orthodontics. We have several presentations in this field of endeavor at the 122nd AAO Annual Session and UIC Orthodontics has become an early leader in using Big Data Analytic approaches to assess clinical outcomes. She is also developing extensive teaching materials in this area and these materials will be disseminated widely. Dr. Lee was selected into the ADEA Emerging Leadership Program in 2021.

I am very thankful to Professor Grace Viana for her outstanding contributions to the residents’ thesis projects and statistical support for all our research projects. With her timely help, our research enterprise has taken off and has enabled UIC Orthodontics to be prolific in scholarly work.

I am particularly thankful to our part time faculty members (Drs. Ben Belavsky, Kyint Chwa, Sharon Durfee, Laurence Golden, Edward John, Qingshan Li, Noor Obaisi, Jackie Rosen,

Matthew Sagun and Issac Yue) who are outstanding role models for our residents and for selflessly sharing their immense knowledge.

We have been very fortunate to have excellent hard working staff (Ms. Marta Kucharska, Huibi Liu, Maria Carmen Garnica, Dorian Diaz, Anyily Madrid, Nirali Patel, Prameelarani Betanapalli, Vladanka Peric, Karina Millan, Gricelda Sanchez, and Grisel Gutierrez) and Clinic Manager (Mr. Andres Geraldo) who have made sure that our department and clinical operations run smoothly. Our clinic is running to full capacity and we are well on our way to meet our clinic production target this year.

I did my bit to UIC Orthodontics and to our profession. In the past year, I participated in several activities including serving on AAOF's PARC and Rapid Assessment of Evidence Committees; member of the Consortium for Orthodontic Advances in Science and Technology committee; Director of the Specialty Node of the National Dental Practice-Based Research Network; Associate Editor of Progress in Orthodontics; and peer-reviewer of over 20 scientific journals. One of my mentees (Dr. Jessica Begley) won the 2021 Dr. Alan Brodie Craniofacial Endowed Chair Award.

We have several exciting activities that will take place in the coming months. Our application cycle to select the Class of 2026 began a few days ago. On June 17, 2022 we will be hosting a faculty workshop event by Align Technology. The second Annual Dr. Graber Seminar series will be held on September 3, 2022. The selection process of UIC Orthodontics Resident Scholar Awards will begin in June 2022 and we will announce the award winners during the Dr. Graber Seminar series day. Stay tuned!

We welcome our incoming residents (Class of 2025).....they will join us in July 2022.

- Dr. Suzanne Abreu
- Dr. Neil Chandok
- Dr. Evan Chwa
- Dr. Katharine Howard
- Dr. Nourah Abdul Kader
- Dr. John Lorenz
- Dr. Priya Shah
- Dr. Buddhapoom Wangsrimongkol

Following is the list of our accomplishments in the past academic year in areas of scholarship, teaching and service activities:

Grants/Contracts (July 2021 to May 2022)

1. **Dr. Maysaa Oubaidin** (Orthodontics Faculty Development Fellowship Award) for the project titled “Impact of COVID-19 Induced Closure of Dental Practices on Orthodontic Outcomes” (Study Team: Maysaa Oubaidin – PI; Sath Allareddy – Project Mentor; Mohammed Elnagar, Flavio Sanchez and Min Kyeong Lee – Co-investigators)
2. **Dr. Sara Kahng** (Research Aid Award) for the project titled “Accuracy of digital indirect bonding using different bracket transfer methods- an in vitro study” (Study Team: Sara Kahng – PI; Mohammed Elnagar – Project Mentor and Co-Investigator; Budi Kusnoto and Sath Allareddy – Co-investigators)
3. **Dr. Emelia Karkazis** (Research Aid Award) for the project titled “Bone Characterization in a Novel Dicer-Deficient Mouse Model Specific to Osteocytes” (Study Team: Emelia Karkazis – PI; Phimon Atsawasuwan – Project Mentor and Co-investigator)
4. **Dr. Youngjae Sung** (Research Aid Award) for the project titled “Comparing the mandibles and eruption patterns of 2 osteocyte-specific Dicer deficient mouse models” (Study Team: Youngjae Sung – PI; Phimon Atsawasuwan – Project Mentor and Co-investigator).
5. Hispanic Alliance for Clinical and Translational Research Research Training Opportunity Program (RTOP), PI: Catherin Chacin, Co-I: **Dr. Christina Nicholas** (mentor) “Salivary Inflammation Profile of Hispanic Infants”.
6. **Dr. Sath Allareddy** (Specialty Node Director, Subcontract with University of Alabama at Birmingham). NIH/NIDCR (U19DE028717). “The National Dental PBRN Administrative and Resource Center” (PI: Gregg H. Gilbert). Year 03 of Grant (2019 to 2026).

Publications in Peer Reviewed Journals (July 2021 to May 2022)

1. Atici S, Elnagar MH, Ansari R, Cetin A, Allareddy V. Fully Automated Determination of the Cervical Vertebrae Maturation Stages using Deep Learning with Directional Filters. PLOS ONE (In Press).
2. Abu Arqub S, Gandhi V, Iverson MG, Alam MK, Allareddy V, Liu D, Yadav S, Mehta S. Comparison of root resorption with Conventional and Mini-Screw Assisted Rapid Palatal Expansion: A systematic review and meta-analysis. European Journal of Orthodontics (In-Press).
3. Mehta S, Gandhi V, Vich ML, Allareddy V, Tadinada A, Yadav S. Long-term assessment of conventional and mini-screw-assisted rapid palatal expansion on the nasal cavity. Angle Orthod. 2022 May 1;92(3):315-323. doi: 10.2319/021221-122.1. PMID: 34964860; PMCID: PMC9020401.
4. Stache R, Prasad B, Viana G, Carley D, Galang-Boquiren M. Oral Appliance and Pharmacologic Agents in the Treatment of Sleep Apnea: A Pilot Clinical Study. Journal of Dental Sleep Medicine. 2022;9(1).
5. Makki A, Elnagar MH, Sanchez F, Caplin J, Viana G, Hasan Z, Obrez A, Kusnoto B. Assessment of Handicapping Labio-Lingual Deviation index scoring methods and their effect on orthodontic treatment coverage by Medicaid. J Public Health Dent. 2022 Feb 16. doi: 10.1111/jphd.12505. Epub ahead of print. PMID: 35174496.

6. Allareddy V, Frazier-Bowers S, Park JH, Gilbert GH. Relevance of practice-based research to orthodontics. *Angle Orthod*. 2021 Nov 1;91(6):856-857. doi: 10.2319/0003-3219-91.6.856. PMID: 34670272; PMCID: PMC8549559.
7. Gu D, Leroux B, Finkleman S, Todoki L, Greenlee G, Allareddy V, Jolley C, Vermette M, Shin K, Kau CH, de Jesus-Vinas J, Dolce C; National Dental PBRN Collaborative Group, Huang G. Anterior openbite malocclusion in adults. *Angle Orthod*. 2022 Jan 1;92(1):27-35. doi: 10.2319/071221-549.1. PMID: 34587249; PMCID: PMC8691483.
8. Covell D, Allareddy V, Frazier-Bowers S. American Association of Orthodontists Foundation Rapid Assessment of Evidence: SmileSonica, Inc, The Aevo System. *American Journal of Orthodontics and Dentofacial Orthopedics*. December 2021, 160 (6). 896-898.
9. Elnagar MH, Handelmann CS, Lippincott JS, Kim MR, BeGole E. Alveolar cortical plate changes associated with incisor retraction and its influence on the limits of orthodontic tooth movement. *Orthod Craniofac Res*. 2021 Nov;24(4):536-542. doi: 10.1111/ocr.12469. Epub 2021 Feb 4. PMID: 33475228.
10. Cardona Salazar, DK, Caplin, J, Whyms, P, Alrayyes, S, Nikita, E, Galang-Boquiren, MT, Truskoski, D, Naqvi, A, Nicholas, CL. In press. Nutrition, obesity, and dental development in young adolescents in Chicago. *American Journal of Human Biology*. e23721. <https://doi.org/10.1002/ajhb.23721>
11. Butaric, LN, Nicholas, CL, Plotzke, K, Maddux, SD. 2021. Ontogenetic trends in human nasal morphology. *The Anatomical Record*. 1:28. <https://doi.org/10.1002/ar.24760>.
12. Atsawasuwan P. Stem Cells and Dentofacial Orthodontic Treatment Potential, *J CALIF DENT ASSOC* 2021; 49(11): 677-684.
13. Chen Z, Nicholas CL, Thalji G, Viana G, Atsawasuwan P. Evaluation of Composite Attachment Position with Four Indirect Bonding Tray Sectioning Strategies. *J CLIN ORTHOD* 2021; 55(5): 294-304.
14. Bulatova G, Kusnoto B, Grace V, Tsay TP, Avenetti DM, Sanchez FJC. Assessment of automatic cephalometric landmark identification using artificial intelligence. *Orthod Craniofac Res*. 2021 Dec;24 Suppl 2:37-42. doi: 10.1111/ocr.12542. Epub 2021 Nov 29. PMID: 34842346.

Impact of Articles Published by UIC Orthodontics in the Last Three Years

Authors	Title	NIH Percentile Ranking (iCite Metric)	Relative Citation Ratio
Elnagar MH, Aronovich S, Kusnoto B.	Digital Workflow for Combined Orthodontics and Orthognathic Surgery	97.4	8.55 (Received more than 8 times the number of citations per year when compared to an average NIH funded article in the field of interest)
Morris RS, Hoye LN, Elnagar MH, Atsawasuwan P, Galang-Boquiren MT,	Accuracy of Dental Monitoring 3D digital dental models using	92.6	4.69

Caplin J, Viana GC, Obrez A, Kusnoto B.	photograph and video mode		
Yates D, Allareddy V, Caplin J, Yadav S, Markiewicz MR.	An Overview of Timeline of Interventions in the Continuum of Cleft Lip and Palate Care	92.2	4.54

Impact of UIC Orthodontics on Orthodontics Related Citations

- **Dr. Budi Kusnoto** is amongst top 10 authors in the world with ≥ 2 articles in the 100 most-cited articles in orthodontics.
- **UIC Orthodontics** is ranked # 2nd in the world amongst Institutions of origin with ≥ 2 most cited Articles.

Books/Book Chapters (July 2021 to May 2022)

1. Elnagar MH, Gajendrareddy P, Lee MK, Allareddy V. Artificial Intelligence and Orthodontic Practice - the Future Unveiled. Book Chapter in Integrated Clinical Orthodontics, 2e. Edited by Vinod Krishnan and Anne Marie. Joh Wiley and Sons, Oxford, UK.
2. Allareddy V, Yadav S, Sanchez F, Venugopalan SR, Elnagar MH. Application of Artificial Intelligence in treating patients with Cleft and Craniofacial Anomalies. Book Chapter in Textbook of Craniofacial Orthodontics. Edited by Pradip Shetye and Travis Gibson. 2022. Published by
3. Allareddy V, Maclaine J, Elnagar MH. Principles of Orthodontic Management of Treacher Collins Syndrome. Book Chapter in Craniofacial Microsomia and Treacher Collins Syndrome. Edited by Michael Marckiewicz and David Yates. 2022. Pages: 429-446. Published by Springer.
4. Emmeric T, Evans CA, Viana Grace. Short Root Anomaly in a Hispanic Population: Risk. In Bourzgui Fd (Ed.). Current Trends in Orthodontics. ISBN 978-1-83969-964-1, July 2021
5. Allareddy V et al. Anthology of Experiences of First Generation Immigrants in Oral Health Care Field in the United States. Edited by Allareddy V, Oubaidin M, and Lee MK. Upcoming.

Presentations at Regional/National Annual Scientific Meetings (July 2021 to May 2022)

1. Snider V, Allareddy V, Atsuwasuwan P, Gajendrareddy P, Kusnoto B, Viana G, Elnagar M. Assessing oral hygiene of orthodontic patients with dental monitoring technology. 122nd Annual session-American Association of Orthodontists, Miami Beach, FL, May 2022. (Nominated for 2022 William Proffitt Resident Scholar Award, American Association of Orthodontists)
2. Ma R, Oubaidin M, Elnagar MH, Allareddy V, Lee MK. Neural Network Model to Predict Excess Blood Loss During Orthognathic Surgeries. 122nd Annual session-American Association of Orthodontists, Miami Beach, FL, May 2022.
3. Oubaidin M, Sanchez F, Lee MK, Allareddy V. Comparison of Propensity Scores, Instrumental Variables, Multivariable Regression, and Neural Network Models to Assess Outcomes: Implications for Orthodontics Research. 122nd Annual session-American Association of Orthodontists, Miami Beach, FL, May 2022.

4. Rozgony A, Allareddy V, Lee MK, Oubaidin M. Development and Validation of a Questionnaire to Identify Facilitators and Barriers to Providing Orthodontic Care to those with Cleft and Craniofacial Anomalies in the State of Illinois. 122nd Annual session-American Association of Orthodontists, Miami Beach, FL, May 2022.
5. Taraji S, Callahan N, Miloro M, Lee MK, Allareddy V. Combined Surgical and Orthodontic Treatment of Ameloblastoma: A Systematic Review and Unique Case Report. 122nd Annual session-American Association of Orthodontists, Miami Beach, FL, May 2022.
6. Shukla C, Lee MK, Allareddy V. Ectodermal Dysplasia and Orthodontic Treatment: A Systematic Review of Literature. 122nd Annual session-American Association of Orthodontists, Miami Beach, FL, May 2022.
7. Lee MK, Allareddy V. Artificial Intelligence in Orthodontics: Is Something Missing? 122nd Annual session-American Association of Orthodontists, Miami Beach, FL, May 2022.
8. Zhang S, Oubaidin M, Sanchez F, Allareddy V, Lee MK. Orthognathic Surgery Related Complications: Estimates from the American College of Surgeons National Surgical Quality Improvement Program Data. 122nd Annual session-American Association of Orthodontists, Miami Beach, FL, May 2022.
9. Allareddy V, Frazier-Bowers S, Park J, Gilbert G, National Dental PBRN Collaborative Group. Updates from the National Dental Practice-Based Research Network. 122nd Annual session-American Association of Orthodontists, Miami Beach, FL, May 2022.
10. Allareddy V. Use of Artificial Intelligence and Big Data Analytics to Examine Patient Centered Outcomes. 122nd Annual session-American Association of Orthodontists, Miami Beach, FL, May 2022.
11. Moon S, Oubaidin M, Lee MK, Gajendrareddy P, Allareddy V. Impact of COVID-19 Induced Closure of Orthodontic Clinic on Clinical Outcomes. AAO Annual Session 2022. Miami Beach, Florida. 122nd Annual session-American Association of Orthodontists, Miami Beach, FL, May 2022.
12. Sanchez F, Ruidan M, Oubaidin M, Elnagar MH, A Unique Non-Surgical Non-extraction Treatment for Skeletal Class III and Anterior Open Bite Malocclusion. 122nd Annual session-American Association of Orthodontists, Miami Beach, FL, May 2022.
13. Hedger, J, Caplin, J, Galang-Boquiren, M, Alrayyes, S, Nicholas, CL. Longitudinal Analysis of Facial Growth in High BMI Children. 122nd Annual session-American Association of Orthodontists, Miami Beach, FL, May 2022.
14. Galang-Boquiren MT, Allareddy V, Mungia R, Gilbert G. Dental Sleep Medicine among dental practitioners: Preliminary qualitative findings from the National Dental Practice-Based Research Network. 122nd Annual session-American Association of Orthodontists, Miami Beach, FL, May 2022.
15. Howard K, Viana G, Monson R, Danielson K, and Galang-Boquiren MT. Hospitalized Covid-19 patients with a history of obstructive sleep apnea. 122nd Annual session-American Association of Orthodontists, Miami Beach, FL, May 2022.
16. Durbin P, Viana G, Kusnoto B, Allareddy V, Atsawasuwan P. COVID-19 Infection Rate and its Mitigation Strategies in Orthodontic Practices. 122nd Annual session-American Association of Orthodontists, Miami Beach, FL, May 2022.

17. Atsawasuwan P, Del Campo D, Del Campo L, Allareddy V, Kadkol S. COVID-19 Infection Rate in Orthodontic Patients at the University of Illinois Chicago. 122nd Annual session-American Association of Orthodontists, Miami Beach, FL, May 2022.
18. Desai R, Belavsky B. Treatment of a Unique Class III Open Bite Short Root Anomaly Malocclusion with Clear Aligners. 122nd Annual session-American Association of Orthodontists, Miami Beach, FL, May 2022.
19. Elnagar MH, Atici S, Ansari R, Cetin A, Allareddy V, Fully Automated Determination of the Cervical Vertebrae Maturation Stages by Artificial Intelligence. 122nd Annual session-American Association of Orthodontists, Miami Beach, FL, May 2022.
20. Yip K, Salazar K, Sanchez F, Kusnoto B, Elnagar MH, Treatment of Maxillary Transverse Deficiency and Midline Deviation with Miniscrew Assisted Rapid Palatal Expansion (MARPE): A Case Report. 122nd Annual session-American Association of Orthodontists, Miami Beach, FL, May 2022.
21. Homsy K, Sanchez F. Vertical and Sagittal Control of Severe Class II Division I Correction – A Case Report. 122nd Annual session-American Association of Orthodontists, Miami Beach, FL, May 2022.
22. Farhi M, Marion I, Atsawasuwan P, Nicholas CL. Validating the forensic dentistry (hu)MANid program in contemporary adults. AADOCR Meeting. Atlanta, Georgia. March 2022.
23. Whyms P, Naqvi A, Valverde Estep, AM, Brambila MF, Martinez G, Chapa G, Nares S, Nicholas CL, Divaris K, Campos Rivera M, Buxo C.. High-throughput gingival metagenome analysis reveals enrichment of inflammatory pathways in periodontally disease subjects. AADOCR Meeting 2022.
24. Whyms PS, Naqvi A, Truskoski T, Valverde Estepa A, Alrayyes S, Williams S, Silver C, Awadalla S, Nicholas CL. 2022. The effect of food insecurity on oral health. American Association of Biological Anthropologists Annual Meeting 2022.
25. Atsawasuwan P., Martin Del Campo D., Martin Del Campo L., Bernab M., Ravindran S., Viana G, Allareddy V., Kadkol S. Frequency of SAR-CoV-2 Infection in Orthodontic patients at the Orthodontic Clinic. University of Illinois Chicago. Annual Meeting of The Eastern component of the Edward H. Angle society of Orthodontists (EHASO), St Peterburg, FL, USA, April 2022.

Invited Talks by UIC Orthodontics Faculty Members at Local/Regional/National/International Level (July 2021 to May 2022)

1. **Nicholas C.** “Childhood Obesity and Craniofacial Growth: A Dental Anthropology Perspective” Medical Sciences Campus, University of Puerto Rico 4/5/2022.
2. **Galang-Boquiren MT.** Managing Dental Side Effects Of Oral Appliance Therapy: An Orthodontist’s Perspective, American Academy of Dental Sleep Medicine, October 21, 2021
3. **Galang-Boquiren MT.** Experience with the PBRN, American Academy of Dental Sleep Medicine, January 25, 2022
4. **Galang-Boquiren MT.** Pediatric Sleep Medicine – A Dialogue Between An Orthodontist And A Pediatric Sleep Specialist, Chicago Dental Society Midwinter Meeting, McCormick Place Convention Center, February 2022
5. **Galang-Boquiren MT.** AADSM Mastery Faculty – to give Mastery Course to AADSM Mastery Fellows.

6. **Atsawasuwan P.** Interdisciplinary Orthodontic Treatment, Midwinter Meeting, Chicago Dental Society, McCormick Center, Chicago, IL, USA (In-person format, 1.5 CE credit): February 2022.
7. **Atsawasuwan P.** What can orthodontists support the restorative dental plan? Mahidol University, Faculty of Dentistry, Bangkok, Thailand (In-person format): January 2022.
8. **Atsawasuwan P.** Accelerated Orthodontic Tooth Movement: an Update. Mahidol University, Faculty of Dentistry, Bangkok, Thailand (In-person format): January 2022.
9. **Atsawasuwan P.** Management of Failure of Eruption of the Teeth. Chulalongkorn University, Faculty of Dentistry, Bangkok, Thailand (In-person format): January 2022.
10. **Atsawasuwan P.** Management of Failure of Eruption of the Teeth. Prasantmitr University, Faculty of Dentistry, Bangkok, Thailand (In-person format): January 2022.
11. **Atsawasuwan P.** Interdisciplinary Orthodontic Treatment, University of West Virginia, WV, USA (Virtual format): October 2021.
12. **Atsawasuwan P.** Accelerated Orthodontic Tooth Movement: an Update Hamdan Bin Mohammed College of Dental Medicine, Dubai, United Arab Emirates (Virtual format): October 2021.
13. **Atsawasuwan P.** Management of Failure of Eruption of the Teeth. Hamdan Bin Mohammed College of Dental Medicine, Dubai, United Arab Emirates (Virtual format): September 2021.
14. **Atsawasuwan P.** Diagnosis and Management of Failure of Eruption of the Teeth, Nippon Dental University, Tokyo, Japan (Virtual format): September 2021.
15. **Atsawasuwan P.** Diagnosis and Management of Ankylosed Teeth, Osaka University, Osaka, Japan (Virtual format): September 2021.
16. **Allareddy V.** Overview of the NDPBRN. University of Michigan School of Dentistry. May 2022.
17. **Allareddy V.** Orthodontics in the Continuum of Cleft Lip and Palate Care. Chicago Dental Society Midwinter Meeting. February 2022.
18. **Allareddy V.** Getting Involved with the National Dental PBRN. American Association of Dental Sleep Medicine. January 2022.
19. **Allareddy V.** Overview of the National Dental PBRN. Tufts University School of Dental Medicine. January 2022.
20. **Allareddy V.** Role of Orthodontist in the Continuum of Cleft & Craniofacial Care. Ramaiah University of Applied Sciences Faculty of Dental Sciences and Indian Orthodontic Society. January 2022.
21. **Allareddy V.** Brief Summary of Opportunities within NDPBRN and its Best Resources. Presented to AAPD Council of Scientific Affairs. July 2021.
22. **Sanchez F.** MEAW / GEAW Principles and Biomechanics. New York University Department of Orthodontics. July 2021.
23. **Elngar M.** Applications of Artificial Intelligence in Orthodontics Clinical Practice and Research". Thomas M. Graber Seminar Series University of Illinois Chicago. Chicago, IL. September 25, 2021.
24. **Elngar M.** "Artificial Intelligence and Dental Bioinformatics" Biomedical and Health Information Sciences (BHIS), BHIS 531, Health IT and interprofessional collaborative practice University of Illinois Chicago. Chicago, IL. October 14, 2021.
25. **Elngar M.** "Impacted teeth Orthodontics and surgical considerations" Grand Rounds John H. Stroger Jr Hospital Division of Oral & Maxillofacial Surgery Chicago, IL. November 2021.

26. **Elnagar M.** Artificial Intelligence in Orthodontics: Progress, Challenges, and Promise. 2022 W. Eugene Roberts Educational Leadership Conference. 122nd Annual session-American Association of Orthodontists, Miami Beach, FL. May 20, 2022.

Sincerely,

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