

DMD Student Oral Presentations (Samson 176):

Mohammad Hadeed, Class of 2026

Mentor: Dr. Pushpa Pandiyan, Biological Sciences

Effect of Annexin A3 on Dectin-1 activation- An analysis of phosphorylation of SYK in Mouse oral tissue organoid (MOTO) cultures using Western Blotting

The purpose of this study is to identify if Annexin A3 is associated with the Dectin-1 activation, as monitored by the phosphorylation of SYK in Mouse oral tissue organoids (MOTO) cultures samples using a Western Blot.

Hye Jean Kim, Class of 2026

Mentor: Dr. Catherine Demko, Community Dentistry

Environmental scan to investigate patient education materials on the internet for oral cancer screening in Ohio dental offices

This project investigated the patient perspective of what oral cancer screening (OCS) information is available online; more specifically, what methods of OCS are available, what patient education materials are being provided, and the readability of these materials.

Isabella Hellmann, Class of 2026

Mentor: Dr. T. Roma Jasinevicius, Comprehensive Care

Preliminary Evaluation and Ranking of Over-the-Counter Bruxism Splints

This project evaluated the ease of construction, general fit, quality, etc. of commercially available bruxism splints. The top 10 were evaluated and ranked.

Emily Ji, Class of 2026

Mentor: Dr. Catherin Demko, Community Dentistry

Focused Environmental Scan of Ohio Dental Practice Websites for Information on the Topic of Sleep Apnea Oral Appliances

This focused environmental scan aimed to search for and organize information publicly available on dental office websites on the topic of sleep apnea and the use of oral appliances for treatment. Overall, very few websites provided information on sleep apnea and oral appliances, but those that did, mentioned symptoms, potential risks of sleep apnea on general health, and the benefits of treatment and oral appliances specifically. Dental offices can play an important role in screening for and recognizing risks for obstructive sleep apnea in their patient population.

Shu Tu, Class of 2025

Mentor: Dr. Andre Paes Batista da Silva, Periodontics

The role of porphyromonas gingivalis and fusobacterium nucleatum with periodontal and gastrointestinal bacteria on tumorigenesis

This study examined the association between the periodontal pathogens Porphyromonas Gingivalis and Fusobacterium Nucleatum and other oral bacteria in tumorigenesis in the gastrointestinal system. Overall, we found that certain bacterial co-aggression promote colorectal cancer development in

Inflammatory Bowel Disease (IBD) and provide a more microbiological insight into the periodontal-IBD co-cancer metabolism.

Scott Wang, Class of 2026

Mentor: Dr. Tarek ElShebiny, Orthodontics

Using Artificial Intelligence to Locate Anatomic Landmarks with CBCT Scans

Our study aims to generate an algorithm to train AI to segment anatomic structures using a CBCT data set, and then compare its efficiency and accuracy with manually generated anatomic structures.

DMD Student Poster Presentations (South Winter Garden):

Mohammad Hadeed, Class of 2026

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Kiarash Mahmoudidizaji, Class of 2026

Mentor: Dr. Scott Pelok, Comprehensive Care

Demographic Shifts and the Demand for Dental Anaesthesia Sedation Services

Understanding what influences the need for dental anesthesia is crucial in patient-centered dental care, with factors like patient demographics (age, disabilities, oral health) playing a big role, helping anticipate future needs and improve services for better patient health.

Mena Morcos, Class of 2025

Mentor: Dr. Faisal Quereshey, Oral and Maxillofacial Surgery

Non-Vascularized Bone Grafts: How Successful Are They in Reconstruction of Segmental Mandibular Defects?

Non-vascularized bone grafts have been used for reconstructing mandibular defects in cases where vascularized grafts were not feasible. The objective of this study was to assess the success rate of these grafts in reconstruction of segmental defects of various sizes in the mandible.

Connor Treadwell, Class of 2026

Mentor: Dr. Suchitra Nelson, Community Dentistry

Oral Health-Related Quality of Life Among Community-Dwelling Older Adults

This project's goal is to evaluate factors associated with oral health-related quality of life (OHRQoL) among seniors in low-income housing facilities in Northeast Ohio.

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Graduate Student Poster Presentations (South Winter Garden):

Nadia Blake & Moshe Gross, AEGD, Class of 2024

Caries Management prevention via non invasive techniques

Despite efforts involving water fluoridation and fluoride-containing oral products, dental caries remains a persistent chronic disease. To combat its prevalence, a range of preventive measures and non-invasive Atraumatic Restorative techniques and materials have been developed. This poster presentation centers on a comprehensive review of these approaches, with particular emphasis on Silver Diamine Fluoride (SDF) and its alignment with the recommendations of the American Dental Association (ADA).

Jennifer Jung & Jean-Pierre Faddoul, AEGD, Class of 2024

Non-retentive Indirect Ceramic Restorations: An Alternative Treatment Modality

This project examined the viability of bonded ceramic restorations as an additional option of treatment modality when the patient is presented with a traditional crown tx plan. Overall, non retentive bonded ceramic restorations appear to have similar viability to traditional crowns, given that the clinician abides by the technique sensitive protocol.

Carolina Gerges, Endodontics, Class of 2025

HTTI Obturation Technique in Endodontics

HTTI is a thermoplastic technique to introduce Gutta percha within the complex anatomy of the canals.

Laurel Leavitt, Endodontics, Class of 2026*Endo or End-Oh-No: Assessing Tooth Restorability in Endodontics*

Prior to starting endodontic treatment, it is important to assess whether the tooth can be restored well. This poster reviews various factors that impact restorability.

Sean Noohpishah, Endodontics, Class of 2026*Endo Magic Show: Making Silver Points Vanish!*

Silver points were historically indicated and well accepted as a root canal obturation material; however, modern techniques and improved materials provide the clinician with much better options. When there is clear evidence of endodontic pathosis or if the silver points complicate proper restoration of the tooth, they would need to be replaced.

Marvin Payen, Endodontics, Class of 2025*Navigating Beyond the Curve: Clinical management of severely curved canals in Endodontics*

This project discusses the clinical management of complex root canal anatomy and techniques to avoid or overcome difficult situations during treatment.

Johnny Pham, Endodontics, Class of 2025*Now You See Me, Now You Don't! Clinical Management of Calcified Teeth in Endodontics*

This project reviews the etiology, prevalence and armamentaria often used to locate calcified canals.

Leslie Scott, Endodontics, Class of 2024*Lost at C: Navigating the Management of C-Shaped Canals in Endodontics*

Navigating ways to diagnose, instrument, and obturate C-shaped canals in Endodontics.

Zoya Shaikh, Endodontics, Class of 2024*MOVE FILE, GET OUT THE WAY! Ledges, Separated Instruments and Obstructions in Endodontics*

This project discusses complications in endodontics such as ledges, file separation, or obstructions and how to address them.

Ewing Jackson Threet, Endodontics, Class of 2025*Removal of Russian Red Material during Retreatment*

This poster discusses decision making for retreating endodontic cases previously treated with "Russian Red" and techniques.

Connie Yoon Winegar, Endodontics, Class of 2024*Adjunctive Use of Botulinum Toxin A in Endodontic Practice for Non-Odontogenic Pain Management*

Non-odontogenic facial pain poses a diagnostic and therapeutic challenge, often persisting despite optimal endodontic therapy. Botulinum Toxin A may be beneficial in managing non-odontogenic facial pain that often coexists with odontogenic discomfort, enhancing the skills of endodontists by improving

comprehensive patient care and opening avenues for multidisciplinary collaboration in pain management.

Ramtin Dastgir, Oral & Maxillofacial Surgery, Class of 2024

Nonvascularized bone grafts: how successful are they in reconstruction of segmental mandibular defects?

This retrospective cohort study assessed the success rate of nonvascularized bone graft in reconstruction of segmental mandibular defects. Our study demonstrated substantial success rate with nonvascularized bone grafts in reconstruction of segmental mandibular defects.

Nadeen Haj Ahmad, Oral & Maxillofacial Surgery, Class of 2024

Hurler Syndrome: Etiology, Manifestations and Life Complications

This case report showcased a set of Hurler Syndrome twins with limited mouth opening due to bilateral coronoid hyperplasia. An extraoral(coronal) approach for bilateral coronoidectomy was taken for both patients with an overall increase in maximal incisal opening from 8 mm to 35 mm.

Gabrielle Nathaniel, Oral & Maxillofacial Surgery, Class of 2027

Case Report: TMJ Replacement in patients with Ehlers Danlos

Case report on literature review on how to successfully treat patients with Ehlers Danlos and the outcome of the patient that presented to our clinic.

George Schieder, Oral & Maxillofacial Surgery, Class of 2026

Primary Failure of Eruption - A Surgical Case Study

We describe a surgical treatment plan for a rare case of Primary Failure of Eruption.

Jaspreet Singh, Oral & Maxillofacial Surgery, Class of 2026

Assessment of Anatomic Airway Changes in Obstructive Sleep Apnea Patients Post Bariatric Surgery

The purpose of our study is to determine if weight loss from bariatric surgery affects airway anatomy in obstructive sleep apnea patients.

Kian Yaghoubnejad, Oral & Maxillofacial Surgery, Class of 2026

Alloplastic Facial Implants

The role of alloplastic facial implants in facial rejuvenation.

Lindsey Jones, Pediatric Dentistry, Class of 2024

Dental Rehabilitation and Rumination Syndrome: A Case Study

This study presents the challenges in providing definitive treatment in patients diagnosed with rumination syndrome.

Surabhi Mangal, Pediatric Dentistry, Class of 2024*A Case Report of Hurler Syndrome*

This case report outlines the clinical and radiographic findings in a pediatric patient presenting in our clinic with a rare syndrome called Hurler Syndrome. This report emphasizes the significance and intricacy of dental treatments for individuals with this syndrome within the context of multidisciplinary efforts to manage the systemic effects of the disease.

Elysha Pomerantz, Periodontics, Class of 2025*Ridge Augmentation Using Bone Shell Technique (Khoury): Case Presentation*

The Khoury technique utilizes autogenous split block bone graft for ridge augmentation in order to be able to place an implant in the ideal position. Cases completed up to implant placement will be presented.

Mina Youssef, Periodontics, Class of 2024*Implant placement with immediate provisionals in the esthetic zone with Robotic navigation. A Case series*

A full review for the workflow of 2 cases of anterior implants with immediate provisional placed with Robotic Navigation.