



VCU School of Medicine



Medical Student Research Day

MAY 5, 2026

MCGLOTHLIN MEDICAL EDUCATION CENTER



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Research Day Schedule

MCGLOTHLIN MEDICAL EDUCATION CENTER

10:30 AM	Poster Presenter Check-in MMEC First Floor Lobby
11:00 AM - 12:00 PM	Poster Presentations (Round 1) MMEC First and Second Floor Open Space
12:00 PM - 12:10 PM	Opening Remarks MMEC Theater
12:10 PM - 12:40 PM	Keynote Speaker: Dr. Lauren Siff, MD MMEC Theater
12:40 PM - 1:40 PM	Lightning Round Oral Presentations MMEC Theater
1:40 PM - 2:00 PM	Break
2:00 PM - 3:00 PM	Poster Presentations (Round 2) MMEC First and Second Floor Open Space



Keynote Speaker

Lauren Siff, MD

Dr. Lauren Siff is a double board-certified urogynecologist who earned her medical degree from VCU School of Medicine. She completed her residency in Obstetrics and Gynecology at Tufts Medical Center, followed by a fellowship in Urogynecology and Reconstructive Pelvic Surgery at the Cleveland Clinic Foundation.

Currently, Dr. Siff serves as an associate professor at both the VCU School of Medicine and also the VCU Institute of Engineering, in addition to her role as Chief of Gynecology and Urogynecology for the Central Virginia VA Health Care System.

Throughout her career, Dr. Siff has demonstrated a strong commitment to research, innovation, and advancing women's health. She is the Central Virginia Site Lead for the National VA Women's Health Research Network and the CEO and Founder of SurgicalEd VR, a company dedicated to improving safety, quality, cost effectiveness, and access to surgical training through use of virtual reality and haptic technology. She also serves as Regional GYN Community of Practice Lead Consultant and is a member of the National Surgery Office's Surgical Advisory Board for OBGYN.

Dr. Siff's current research focuses surgical education and innovation. She is defining and validating novel metrics for objective technical skill assessment and determining proficiency, to improve surgical training, privileging, credentialing and certification.

Dr. Siff also innovates in patient care, and is studying the use of immersive therapy for pre-procedure acclimation, pain and anxiety especially for women veteran's with a history of military sexual trauma.

Lightning Rounds Oral Presentations

12:40 PM – 1:40 PM

Number	Name	Research Project Title
1	Rana Ansari	Healthcare Access Among Syrian Refugees in Northern Jordan: Barriers and Facilitators
2	Rebecca Eshtiaghpour and Tyler Hyun	Understanding Patient Needs and Language Preferences for Whole Health Focused Care
3	Anna Huang	Hip Arthroscopy Trends and Early Postoperative Outcomes
4	Nicole Lulkin	Psychosocial Burdens in Liver Transplant Survivorship: Prevalence of Loneliness and Social Isolation
5	Pratyush Narayan	Role of Interleukin-18 in Myocardial Diastolic Dysfunction Associated with Aging
6	Yashnoor Sandhu	Trends in Complications of Pediatric Acute Bacterial Sinusitis Before and After the COVID-19 Pandemic: A TriNetX Analysis
7	Krithika Senthil	Investigating the Implications of AGE-RAGE Overexpression in Cancer-Associated Fibroblasts
8	Sanya Surya	Cardiovascular Outcomes and CPAP Compliance after Endoscopic Sinus Surgery in Patients with CRS and OSA
9	Siddharth Venigalla	External Validation of the Kids Intracranial Injury Decision Support Tool for Traumatic Brain Injury Tool

Oral Presentation

1

Healthcare Access Among Syrian Refugees in Northern Jordan: Barriers and Facilitators

Mentor:

Dr. Ola Soudah, Yarmouk University, Public Health

Contributors:

Rana Ansari, M1, Virginia Commonwealth University

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Sumayya Amoura, M4, Yarmouk University

Abstract:

Refugees and migrants experience disproportionately poorer health outcomes compared to other groups due to unstable primary and emergency healthcare access. The Syrian civil war has displaced millions of Syrians, approximately 7% of whom reside in Jordan. Many live in the Zaatari refugee camp and Irbid, a nearby urban center. This project aims to identify facilitators and barriers in access to emergency healthcare for Syrian refugees in northern Jordan.

Face-to-face semi-structured interviews were conducted with Syrian patients who presented to the emergency department in Zaatari and outside the camp, as well as Jordanian healthcare providers. Interview questions were structured by the Tanahashi healthcare accessibility framework, and the interviews were transcribed and coded into themes using the ATLAS.ti software.

Among 25 interviews, major reasons for presenting to the emergency room included burns or trauma from prior conflict exposure, acute episodes of chronic conditions or work-related/car accidents. Inadequate services and limited resources were the most commonly identified themes for healthcare barriers within Zaatari, whereas an adequate healthcare staff was a key facilitator. For patients living outside of the camp, cost restraints were the most common barrier, along with a lack of financial support from public programs/NGOs. However, the high quality of services was a major facilitator.

Healthcare services within Zaatari camp are insufficient due to a lack of resource funding, despite an adequate number of physicians. Consequently, patients must seek approval to obtain healthcare outside the camp, creating delays and logistical obstacles. While the quality of care is higher outside of Zaatari, insurance rates for foreigners make healthcare unaffordable, forcing patients to seek cheaper, lower-quality alternatives. Future directions of the project include conducting more interviews to expand thematic saturation, which will directly inform public programs and the UNHCR to improve emergency healthcare access for refugees.

Oral Presentation

2

Understanding Patient Needs and Language Preferences for Whole Health Focused Care

Mentor:

Dr. Rebecca Etz, Virginia Commonwealth University, Department of Family Medicine

Contributors:

Rebecca Eshtiaghpour, M2, Virginia Commonwealth University

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Rebecca Etz, PhD, VCU Department of Family Medicine

Abstract:

Context: Health is shaped by mental, physical, socioeconomic and public health factors, yet the U.S. healthcare system treats these separately, often missing what is most important to patients, leading to fragmented care that may not meet needs.

Objective: Understanding patient needs and language preferences to provide more complete and holistic primary care.

Methods: A voluntary and anonymous online survey study of a national sample of 1579 primary care patients, taking 7-9 minutes to complete. Codes were developed using grounded theory, applied in a template-based approach, with coding frequencies identified using descriptive statistics.

Population: US based primary care patients, over age 18, seen in primary care within 12 months, sampled for maximum diversity. **Instrument:** Study focused on two open-ended questions from the survey instrument: “When you decide to talk to someone (in healthcare) about your health or how you are feeling, what motivates you to seek help?” and “Think about a time when someone (in healthcare or not) asked about how you were doing in a way that made you feel like they really cared. What was it that made you feel that way?”

Results: When respondents were asked what motivated them to seek help, the most striking responses were the relationship with the care team (7%), inability to solve issues alone (7%), and severity (6%). When asked about what made them feel cared for, the most striking responses were empathy (31%), engagement (24%), personal questions (11%), remembering their history (4%), and a personal relationship (4%).

Conclusion: Patients prefer care from clinicians with whom they have longstanding and trusting relationships. Kindness, emotional connection, and sense of the clinician’s investment in a patient’s wellbeing motivate care seeking and help patients feel known beyond their chart. Clinicians can show connection by asking personal questions, and avoiding obvious use of scripts or checklists.

Oral Presentation

3

Hip Arthroscopy Trends and Early Postoperative Outcomes

Mentor:

Dr. Jonathan Goodloe, Virginia Commonwealth University, Orthopaedic Surgery

Contributors:

Anna Huang, M2, Virginia Commonwealth University

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Carl Edge, MD, VCU Department of Orthopaedic Surgery

Jonathon Goodloe, MD, VCU Department of Orthopaedic Surgery

Abstract:

Background: Hip arthroscopy has become increasingly popular due to its minimally invasive nature and favorable outcomes compared to open procedures. Despite its growth, national data on surgical volume and complication trends over the past decade remain limited.

Methods: A retrospective analysis was conducted using the American College of Surgeons National Surgical Quality Improvement Program (ACS-NSQIP) database from 2014 to 2023. Patients who underwent hip arthroscopy were identified via CPT codes. Demographic, clinical, and perioperative variables were extracted. Complications within 30 days postoperatively were categorized as major or minor. Descriptive statistics and regression analyses were performed to identify predictors of adverse events.

Results: A total of 3,349 hip arthroscopy cases were analyzed. The overall 30-day complication rate was 5.58%, with 1.88% major and 3.70% minor complications. The most common major complication was return to the operating room (0.48%), while bleeding requiring transfusion (2.12%) was the most frequent minor complication. Multivariate analysis revealed that preoperative transfusion, partial dependence in functional status, higher ASA class, and regional anesthesia were significantly associated with increased complication risk. Male sex was associated with decreased risk. Surgical volume showed an overall upward trend from 2014 to 2022, with a slight decline in 2023.

Conclusion: Hip arthroscopy utilization has grown over the past decade, though recent years show signs of plateauing. While the procedure remains relatively safe, identifying risk factors such as ASA class, anesthesia type, and functional status is critical for optimizing outcomes. These findings provide updated national benchmarks and highlight areas for targeted improvement in perioperative care.

Oral Presentation

4

Psychosocial Burdens in Liver Transplant Survivorship: Prevalence of Loneliness and Social Isolation

Mentor:

Dr. Mohammad Siddiqui, University of Virginia, Gastroenterology

Contributors:

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Vaishali Patel, VCU Division of Gastroenterology, Hepatology and Nutrition

Idris Yakubu, VCU Division of Transplant Surgery

Mohammad Shadab Siddiqui, UVA Division of Gastroenterology and Hepatology

Abstract:

Background: All liver transplant (LT) recipients undergo comprehensive psychosocial assessment and optimization prior to LT surgery and only those with demonstrably strong support systems are deemed to be acceptable candidates. However, it remains unclear how the transplant experience may affect a patient's sense of connectedness and communal belonging. Thus, the present study aimed to assess loneliness and social isolation in LT recipients.

Methods: Loneliness is the perceived discrepancy between desired and actual social connection and was quantified via De Jong Gierveld Loneliness Scale. Social isolation is the quantifiable lack of social contact or participation with others and was quantified via Lubben Social Network. The study enrolled 98 adult LT recipients ≥ 3 months post-transplant surgery and were clinically stable.

Results: The cohort consisted mostly of males (53%) and had a mean age of 67 ± 5 years. The median time from LT to assessment was 100 months. As a whole, 17.3% were at risk for loneliness, and 19.4% were socially isolated. The prevalence of loneliness and social isolation was similar across etiology of liver disease, race, and ethnicity. Patients at risk for social isolation were significantly more likely to be unemployed or on disability compared with those not at risk for social isolation ($p=0.04$). 7 patients were at risk for both loneliness and social isolation.

Conclusions: Loneliness and social isolation are common among LT recipients, highlighting an important psychosocial burden that remains insufficiently addressed or studied in LT survivorship. As these can negatively impact quality of life and survival, these findings underscore the need for early psychosocial screenings and targeted interventions.

Oral Presentation

5

Role of Interleukin-18 in Myocardial Diastolic Dysfunction Associated with Aging

Mentor:

Dr. Antonio Abbate, University of Virginia, Cardiology

Contributors:

Pratyush Narayan, M4, Virginia Commonwealth University

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Antonio Abbate, MD, PhD, University of Virginia

Stefano Toldo, PhD, University of Virginia

Abstract:

Background: Aging is an independent risk factor for diastolic heart failure. The pro-inflammatory cytokine Interleukin-18 (IL-18) which impairs myocardial diastolic function increases with age. In this study we aimed to characterize the effects of IL-18 on cardiac diastolic function associated with aging by studying mice with genetic deletion of IL-18 (IL-18 KO).

Methods: IL-18 KO and age matched wild-type (WT) male mice were categorized in two age groups: young (three- to five-months) and aged (eleven- to fifteen-months). Assessments included body weight, glucose tolerance, plasma IL-18 levels, and cardiac fibrosis. Doppler echocardiography was performed to evaluate cardiac structure and function. Contractile reserve was tested with an isoproterenol challenge and left ventricular end diastolic pressure (LVEDP) was measured by left ventricle catheterization. Myocardial fibrosis was evaluated in cardiac tissue stained with Masson's trichrome and calculated with computer morphometric analysis.

Results: Aging was associated with increased IL-18 levels in WT mice. In the young mice, IL-18 KO showed no significant differences in cardiac structure, function or contractile reserve compared to age-matched WT mice. In the aged group, IL-18 KO mice had preserved left ventricular systolic function (fractional shortening [FS]), similar to WT mice. However, when compared with WT, aged IL-18 KO mice exhibited significantly lower isovolumetric relaxation time (IRT), myocardial performance index (MPI) and LVEDP, all of which reflect better diastolic function. These mice also showed significantly less myocardial fibrosis than their aged WT counterparts. In contrast, aged IL-18 KO had significantly higher fasting glycemia and greater body weight than age-matched WT mice, indicating a worse metabolic profile.

Oral Presentation

6

Trends in Complications of Pediatric Acute Bacterial Sinusitis Before and After the COVID-19 Pandemic: A TriNetX Analysis

Mentor:

Dr. Kelley Dodson, Virginia Commonwealth University, Department of Otolaryngology

Contributors:

Yashnoor Sandhu, M3, Virginia Commonwealth University

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Kelley Dodson, MD, FACS, VCU Department of Otolaryngology

Abstract:

Background: Acute bacterial sinusitis (ABS) is a common complication of viral upper respiratory infections in children. Although most cases resolve without sequelae, some progress to orbital or intracranial complications requiring urgent intervention and may be more frequent since the COVID-19 pandemic. This study evaluated national trends in complicated pediatric ABS using large-scale, real-world data.

Methods: A retrospective cohort study was conducted using the TriNetX United States Collaborative Network, encompassing de-identified electronic health records from multiple healthcare systems. Pediatric patients (0–18 years) diagnosed with ABS during the pre-COVID (February 2015–February 2020) and post-COVID (March 2020–March 2025) periods were identified using ICD-10 codes. Cohorts were matched for demographics. Outcomes included orbital extension, intracranial abscess, sinus surgery, and use of intravenous (IV) antibiotics. Odds ratios (OR) with 95% confidence intervals (CI) were calculated; $p < 0.05$ was considered significant.

Results: There were a total of 396,773 patients in the pre-COVID cohort and 330,612 in the post-COVID cohort. Compared with pre-COVID patients, post-COVID patients had higher odds of orbital cellulitis (OR 1.60, 95% CI 1.46–1.76), intracranial abscess (OR 2.00, 95% CI 1.70–2.36), and sinus surgery (OR 1.80, 95% CI 1.59–2.02). They also had greater odds of IV antibiotic administration (OR 1.25, 95% CI 1.20–1.30) and infusion use (OR 1.52, 95% CI 1.36–1.70) ($p < 0.001$ for all).

Conclusion: Complications of pediatric ABS may be more prevalent in the post-COVID era, suggesting heightened disease severity and need for intensive therapy. Early recognition and aggressive management remain critical to preventing morbidity.

Oral Presentation

7

Investigating the Implications of AGE-RAGE Overexpression in Cancer-Associated Fibroblasts

Mentor:

Dr. David P Turner, Virginia Commonwealth University, Department of Surgery

Contributors:

Krithika Senthil, M2, Virginia Commonwealth University

Tuong Vi Nguyen, G2, Virginia Commonwealth University

David P. Turner, PhD, VCU Department of Surgery

Abstract:

Background: Prostate cancer is the second leading cause of cancer-related mortality in men. Recent investigations by the Turner group have implicated advanced glycation end products (AGEs) in prostate tumor progression through their interaction with the receptor for AGEs (RAGE). AGE-RAGE signaling promotes inflammation, cell proliferation, migration, and activation of cancer-associated fibroblasts (CAFs) within the tumor microenvironment, thereby supporting tumor growth. Additionally, our lab has shown that African American prostate cancer serum and tissue exhibit higher AGE levels than Caucasian. This disparity may stem from diets high in sugars, fats, and processed foods, key sources of AGEs. These findings link AGE biology to social drivers of health and disparities in prostate cancer outcomes. **Aims:** This study examines how AGE-RAGE signaling influences CAF activation and tumor cell behavior, specifically whether AGE treatment of fibroblasts enhances the migration of tumor epithelial cells. We hypothesize that AGE treatment increases fibroblast-driven migration via RAGE.

Methods: Prostate cancer tissue samples (DPT18) were enzymatically processed to establish matched epithelial and fibroblast cell lines and characterized. Functional CAF activation was evaluated via transwell migration assays. Statistical analysis was conducted using two-way ANOVA in GraphPad Prism.

Results: Histopathology confirmed a Gleason grade 3 for DPT 18. The patient-matched fibroblasts proliferated faster than epithelial cells (doubling times: 1.39–1.42 vs. 2.20–2.57 days at seeding cell densities of 3125 and 6250). AGE treatment of fibroblasts significantly increased epithelial cell migration compared to untreated fibroblasts. Conversely, direct AGE treatment on epithelial cells did not produce a significant change in migration. These results suggest that AGE exposure enhances the pro-migratory capacity of CAFs, likely via AGE-RAGE signaling pathways.

Conclusions: Our findings show that AGEs promote prostate cancer tumorigenicity by activating CAFs. The pro-migratory effect observed in fibroblasts, rather than epithelial cells, may be driven by AGE-RAGE signaling.

Oral Presentation

8

Cardiovascular Outcomes and CPAP Compliance after Endoscopic Sinus Surgery in Patients with CRS and OSA

Mentor:

Dr. Ryan Nord & Dr. Theodore Schuman, Virginia Commonwealth University Department of Otolaryngology

Contributors:

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Theodore Schuman, MD, VCU Department of Otolaryngology

Ryan Nord, MD, VCU Department of Otolaryngology

Abstract:

Introduction: Chronic rhinosinusitis (CRS) and obstructive sleep apnea (OSA) are frequently co-existing chronic inflammatory upper-airway conditions with elevated cardiovascular risk. Continuous positive airway pressure (CPAP) adherence for OSA may be limited by nasal obstruction. Endoscopic sinus surgery (ESS) improves sinonasal airflow; its undetermined influence on cardiovascular outcomes and CPAP utilization in these patients is the focus of this study.

Methods: A retrospective single-center study identified patients with CRS and OSA, stratified by ESS status. Following 1:1 propensity matching for demographics, baseline cardiovascular disease, and nasal polyps, 5-year incidence of atrial fibrillation, myocardial infarction (MI), stroke, pulmonary hypertension (pHTN), hypertension, coronary artery disease (CAD), heart failure (HF), and antihypertensive use was assessed. CPAP compliance (% nights >4 hours use) and noncompliance reasons were recorded. Fisher's exact tests assessed incident outcomes.

Results: Among 269 patients (120 ESS, 149 ESS-naïve), ESS was associated with reduced new-onset HF (1.7% vs 11.4%; RR 6.85, $p=0.002$), pHTN (1.7% vs 9.4%; RR 5.64, $p=0.008$), MI (0% vs 5.3%; $p=0.010$), and stroke (0% vs 4.0%; $p=0.035$) rates. Atrial fibrillation, hypertension, and CAD remained similar. ESS-naïve patients demonstrated significantly increased antihypertensive requirements over time (+0.596; $p<0.001$), whereas the ESS group did not (+0.247; $p=0.119$).

Average CPAP compliance was significantly higher in ESS patients ($82.54\pm 30.32\%$ vs. $73.04\pm 31.42\%$, $p=0.0126$), though noncompliance rates were similar between cohorts (30.83% vs. 24.83%, $p=0.6164$). Noncompliance reasons included intolerance, mild OSA symptoms, and congestion. 8.16% of CPAP noncompliant ESS patients attributed noncompliance to OSA symptom resolution following ESS.

Conclusion: ESS was associated with lower HF, pHTN, MI, and stroke incidence and reduced progression of antihypertensive medication burden, potentially mediated by higher CPAP compliance.

Oral Presentation

9

External Validation of the Kids Intracranial Injury Decision Support Tool for Traumatic Brain Injury Tool

Mentor:

Dr. David Limbrick, Virginia Commonwealth University, Department of Neurosurgery

Contributors:

Siddharth Venigalla, M2, Virginia Commonwealth University

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Nathan Kuppermann, MD, UC Davis Emergency Medicine

Christopher R Carpenter, MD, Mayo Clinic Emergency Medicine

Pradip Chaudhari, MD, USC Pediatrics

James F Holmes, MD, UC Davis Emergency Medicine

David D Limbrick Jr., MD PhD, VCU Neurosurgery

Abstract:

Introduction: Management of children presenting to the emergency department (ED) with mild traumatic brain injury (TBI) and intracranial injuries (ICI) remains uncertain due to the substantial risk of neurological decline. The Kids Intracranial Injury Decision Support Tool for Traumatic Brain Injury (KIIDS-TBI) tool was derived to guide clinicians in disposition decisions but is yet to be validated. We sought to validate the KIIDS-TBI tool in a large multicenter cohort.

Methods: This was a prospective, multicenter nested cohort study of children with minor blunt head trauma. We included children (<18 years) from six level-1 pediatric trauma centers who presented to the ED with Glasgow Coma Scale (GCS) scores of 13-15 and ICI on cranial CT. The primary outcome was a composite of neurosurgical intervention, intubation for > 24 hours or death from the TBI. The KIIDS-TBI tool was used to categorize children into three different risk cutoffs. Sensitivity and specificity with 95% confidence intervals (CI) were reported for each risk cutoff.

Results: The study included 609 patients with mean age of 6.9 ± 5.5 years. Thirty-eight patients had the outcome of interest including neurosurgical intervention (n = 38), intubation for > 24 hours (n = 4) or death (n = 0) from the TBI. Cutoff A had a sensitivity of 97.4% (95% CI 86.2, 99.9%) and specificity of 18.7% (95% CI 15.6, 22.2%). Cutoff B had a sensitivity of 92.1% (95% CI 78.6, 98.3%) and specificity of 58.8% (95% CI 54.7, 62.9%). Cutoff C had a sensitivity of 81.6% (95% CI 65.7, 92.3%) and specificity of 77.8% (95% CI 74.1, 81.1%).

Conclusion: The KIIDS-TBI tool demonstrates high sensitivity at detecting patients at risk of neurological decline following ICI. This tool may be used to guide effective clinical decision-making including disposition decisions for children presenting to the ED.

Poster Presentations

Round 1 (11:00 AM – 12:00 PM)

Number	Name	Research Project Title
1	Sarah Abouassali	Ocular Dialysis Disequilibrium Syndrome: A Case Review Series
2	Amanda Adolfo	Biomarker Evidence of Toxicant Exposure in Exclusive Cigar Smokers: Insights from the Population Assessment of Tobacco and Health Study Wave 7 (2022–2023)
3	Omar Al-Dulaimi	CPT-derived Indicators Reveal Access Barriers to Ophthalmic Care in High-need Virginia Communities
4	Sruthi Alampally	Determining the Impact of Antibiotic Therapy on the Resolution of Symptoms in Pediatric Acute Neuropsychiatric Syndrome (PANS)
5	Dalia Allaw	Exploring the Impact of Palliative Care and Hospice Involvement on Hospital Mortality Metrics
6	Aesha Amin	Hidden in the White Count: Light-Chain MGUS Unmasked by Unexplained Leukocytosis
7	Aashish Batheja	Evaluating Discordance Between MRI and PSMA-PET/CT in Initial Prostate Cancer Imaging
8	Manasa Chillarige	Comparing the Risk of Contralateral Eye Injury in Amblyopic Patients to the General Population
9	Edward Choi	Characterization of the Potent and Selective Peroxisome Proliferator-Activated Receptor- α (PPAR- α) Agonist Pema fibrate in a Mouse Model of Chemotherapy-Induced Peripheral Neuropathy (CIPN)
10	Lauren Dain	Uncovering the Function of Heat Shock Protein 27 in Glioma-Associated Reactive Astrocytes
11	Eleanor Dalsass	The Protective and Therapeutic Potential of Nature in Relation to Adverse Childhood Experiences
12	Dominique Daly	A Rare Presentation of Cutaneous Metastasis in Squamous Cell Carcinoma of the Head and Neck Region: Case Report and Literature Review
13	Lauren Daniel	Physical Activity Regardless of Muscle Quality is Associated with Preserved Six Minute Walk Distance 24 Months after Breast Cancer Treatment
14	Eleanor Davis Pessner	Mechanical Regulation of Fibroblast Behavior in Pulmonary Fibrosis
15	Isabella Deckey	Planned Oocyte Cryopreservation Outcomes in Physicians Compared to Non-physicians
16	Tanvir Dhaliwal	Biological Markers Predict the Onset and Reawakening of Cancer Dormancy in the Liver
17	Sevval Ercan	Simulation-Based Education for Stevens Johnson Syndrome Recognition and Management
18	Mariana Fernandes Gragnani	Same Overdose, Different Management: A Novel Approach to Teaching Acetaminophen Overdose
19	Thomas Fountain-Walker	Workflow Optimization for Eliciting and Implementing What "Matters Most" in Geriatric Primary Care
20	Sara Garmchi	Insomnia and Recovery Capital Among Men and Women with Opioid Use Disorder

Number	Name	Research Project Title
21	Pranavi Gopanapalli	Same Presentation, Different Diagnosis: Using Parallel Mock Oral Examinations to Teach the Differential Diagnosis of Galactorrhea
22	Jacob Hallesy	Synergistic Antitumor Effect of Triple Therapy with Sildenafil, Rapamycin and Doxorubicin in Breast Cancer with Mitigation of Cardiotoxicity
23	Asma Ibrahim	Emergency Department Utilization and Opioid Use in Migraine Patients Treated With CGRP Inhibitors Versus Traditional Preventive Therapies
24	Ammar Jawad	The Importance of PSMA PET/CT Findings in the Initial Staging and Management of Patients with Newly Diagnosed Prostate Cancer
25	Vandanaa Jayaprakash	Non-invasive Detection of Detrusor Overactivity with Bladder Near-infrared Spectroscopy in OAB Patients
26	Angelica Johnson	Post-immunotherapy Lineage Switch as a Mechanism of Relapse in Acute Leukemia: A Case Series
27	Aditya Kotha	IL-33-Mediated Mast Cell and Eosinophil Function Requires Isoprenylation
28	Akhila Kunuthuru	Determinants of Surgical Approach for Colorectal Cancer Patients: Analysis of Patient, Hospital, and Environmental Characteristics
29	Megan Lee	A Rare Case of Angioinvasive Cutaneous Curvularia Mimicking Invasive Aspergillosis in a Liver Transplant Recipient with Acute Graft-Versus-Host Disease (GVHD)
30	Lauren Leung	Acute-On-Chronic Carbamazepine Overdose: A Toxicology Simulation Case for Fourth-Year Medical Students
31	Sarah Levy	Vaginal Estrogen and Sildenafil Prescription Medicare Coverage: A Cross-Sectional Study
32	Aashrith Madagiri	Cryoneurolysis for Chronic Neuropathic Pain: Techniques and Clinical Outcomes
33	Noelle Maison	Differences in Postpartum Pain Scores and Treatment Response Following Cesarean Section Birth
34	Nuhamé Mulugeta	Congenital Hairy Polyp of the Oral Cavity: Two Neonatal Cases and a Scoping Review of Nasal and Oropharyngeal Masses Presenting With Feeding Difficulty
35	Sejal Murthy	Real-World vs. Clinical Trial Data of Belantamab mafodotin's Ocular Toxicities: A Comparative Analysis
36	Vaishnavi Nemani	Health, Quality of Life, and Insomnia Among Individuals with Opioid Use Disorder
37	Susan Nguyen	HLA-B*58:01 Testing for Prevention of Severe Cutaneous Adverse Reactions: Investigating Gaps in Implementation
38	Mahija Nukala	Prevalence of Strabismus and Amblyopia in Pre-Term Children Screened for Retinopathy of Prematurity (ROP)
39	Roshni Patel	Using Functional Near Infrared Spectroscopy to comparison of heart rate variability between females with overactive bladder and healthy controls pre- and post-micturition
40	Sophia Quelhas Cury	The Impact of Endoscopic Sinus Surgery on 5 Year Cardiovascular Disease Incidence in Patients with Chronic Rhinosinusitis and Obstructive Sleep Apnea
41	Rishi Raghavan	Efficacy of Inspire™ Hypoglossal Nerve Stimulation in Lowering Supine Apnea-Hypopnea Index
42	Yumna Rahman	Methodology: Role of Differential Methylation of Clock and Clock-Controlled Genes in the Colorectal Carcinoma Continuum
43	Liana Resnikoff	Early Pregnancy Loss in Emergency Departments in Virginia: An Investigation on Differing Rates of Active Management In Urban Versus Rural Departments

Number	Name	Research Project Title
44	Taneesha Sardana	Same Presentation, Different Diagnosis: A Novel Teaching Approach to Patient Presenting with Non-Sudden Onset Paralysis
45	Kavin Selvan	Risk of Open-angle Glaucoma from Carboplatin Use
46	Neha Shah	Type 2 Diabetes Mellitus And Alcohol Use Disorder Amplify Both Cardio-Renal-Metabolic And Liver Related Outcomes and Mortality Risk Compared to Either Disorder Alone
47	Bradley Allen Sheffield	Electronic Health Record Evidence Suggests Underrecognition and Low Antifibrotic Use in Progressive Fibrosing Interstitial Lung Disease
48	Chengxian Shi	Understanding Human Trafficking and Its Clinical Relevance: Integration into the M2 Physician, Patient, and Society Longitudinal Course
49	Ishika Singh	Prefrontal Cortex Functional Near Infrared Spectroscopy (fNIRS) provides preliminary detection of neuroexcitation Sacral Neuromodulation Programing Characteristics
50	Abirami Sivakanthan	Analysis of Breastfeeding Rates at Discharge Among Integrated OBGYN-Addiction Care Program Patients
51	Sonia Srikanth	Risk Factors for Progression to Invasive Candida Auris Infection among Colonized Patients
52	Jared Stewart	Supraorbital Keyhole Craniotomy as an Approach to the Olfactory Tract
53	Grant Nicholas Thesing	Single Authorship Trends in High-Impact Otolaryngology Journals: A Bibliometric Analysis
54	Charita Valipireddy	To Investigate Dickkopf1 (DKK1)'s Novel Receptor in Inflammation
55	Joshua Vo	Identifying Heterogeneity in Mental Health Burden Across Southeast Asian American Subgroups: A TriNetX Study
56	Andrew Vu	Interventional Radiology in Sickle Cell Disease: Expanding the Toolkit for Acute Management
57	Zachary Whong	Cumulative Systemic Steroid Exposure and Adverse Outcomes in Chronic Rhinosinusitis: Evidence for a Threshold Effect
58	Natalie Wiley	A Phase 1 Trial to Evaluate the Safety, Pharmacokinetics and Anti-tumor Activity of ATYR2810, an NRP2 Monoclonal Antibody, Alone and in Combination with Docetaxel in Patients with Advanced Malignancies.
59	Sydney Williams	Renal Insufficiency and Parkinson's Disease (PD): A retrospective chart review on factors that impact development of PD in veterans with impaired kidney function
60	Edward Wu	Dual Inhibition of PDE5-mTOR Potentiates Chemo-and Immunotherapy of Breast Cancer while Attenuating its Cardiotoxicity
61	Nasim Zeighami	Systemic Comorbidities in Patients with Pseudoexfoliation Glaucoma and Primary Open-Angle Glaucoma: A TriNetX Analysis
62	Keri Zhou	Real-World Evaluation of Cardiac Outcomes After CAR-T in Patients with Hematologic Malignancies

Round 2 (2:00 PM – 3:00 PM)

Number	Name	Research Project Title
1	Ruhika Aguru	Predictors of Depression after Pediatric Spinal Cord Injury: A Nationwide Analysis
2	Annalise Ajmani	The Effects of Promotive Factors on Exposure to Community Violence Among Urban Middle School Students
3	Anvita Anumolu	Histopathologic Features and Molecular Markers of Encephalocraniocutaneous Lipomatosis (ECCL)
4	Lindsay Arellano	Pediatric Repetitive Mild Traumatic Brain Injury Elicits T cell-Mediated Neuroinflammation
5	Sarah Baig	Neuron-targeted AAV on-demand delivery of Neurogranin for Treating Alzheimer's Disease
6	Vignya Bankuru	Retained Foreign Bodies from Faulty Intermittent Catheters in Spinal Cord Injury Patients: A Case Series
7	Nour-Maria Bouzid	Return to Sport Following Sesamoidectomy: A Systematic Review of Timeframes and Clinical Outcomes in Athletes
8	Charlotte Burch	Beyond Body Weight: The Obesity Paradox and Racial Differences in Outcomes in Pancreatic Cancer
9	Colleen Cecil	Surgical Management of Wrist Deformity in Radial Longitudinal Deficiency: A Systematic Review
10	Madeline Chiang	Impact of Childhood Trauma on Distress Tolerance, Cognitive Flexibility, and Executive Function in Youth
11	Andrew K Chow	Postoperative Complications Following Surgical Stabilization of Primary Versus Recurrent Anterior Shoulder Dislocations: A Nationwide Cohort Analysis
12	Meredith Christian	Same Presentation, Different Diagnoses: A Novel Approach to Teaching Postpartum Headache
13	Alexander Cigularov	Structural Access as a Determinant of Formal Help-Seeking for Behavioral Health: The Moderating Roles of Insurance Coverage and English Proficiency among Spanish-Speaking Immigrants.
14	Mallika Datta	Reducing Post-Operative Opioid Exposure in Neonatal Abdominal Surgery: A Quality Improvement Initiative
15	Keshav Desai	Triple Arthrodesis Outcomes and Complications: A Systematic Review
16	Mahima Desai	Adolescent Athlete Psychological Response And Acoustic Startle Following Concussion: A Preliminary Investigation
17	Noha Elemery	Evaluating the predictors of persistent opioid use following arthroscopic orthopedic surgery
18	Kean Farhani	Complex Anesthetic Management of Subarachnoid Hemorrhage Complicated by Acute Takotsubo's Cardiomyopathy: A Case Report
19	Rachel Fox	The PIN TEAMS Study: Positive and Intentional Nurturing of Teamwork, Empowerment, and Altruism among Medical Students
20	Rachel Fry	Building Capacity for Patient-centered CER Focused on Anal Dysplasia and Cancer in Central Virginia
21	Alexander Goldman	Same Snake Envenomation, Different Clinical Presentation: A Novel Way to Approach Simulated Cases Presenting with Snake Bites
22	Saumya Gupta	Chronic Hippocampal Neuronal Loss and Network Hyperexcitability 6 months post TBI

Number	Name	Research Project Title
23	Jenna Hughes	Outcomes of Medial Patellofemoral Ligament Reconstruction and Repair in Patients with Hypermobility Syndromes
24	Shilpa Jasti	Enhancing Anesthesia Resident Confidence in Neonatal Crisis Management Through Simulation Training
25	Lina Jenane	Essential Anatomy for Radiology
26	S. Jennifer Wang	Acute-on-Chronic Valproic Acid Overdose: A Toxicology Simulation Case for Medical Students
27	Mohini Johri	Outcomes of Primary Reverse Total Shoulder Arthroplasty in Younger Patients (≤ 65 Years Old): A Systematic Review
28	Samuel Joseph	Importance of symmetry in differentiating central pontine myelinolysis from pontine glioma
29	Tobi Kamoru	The Ethical Implications of Artificial Intelligence in Orthopedic Surgery: A Systematic Review
30	Marisa Mihori	Swollen Limb: A Toxicology Simulation Case for Medical Students and Residents
31	Isaac Miller	Metabolic and Physiologic Exposures Associated with Incident Normal Pressure Hydrocephalus
32	Julia Mitchell	Factors Associated with Continuum of Acute to Post-Acute Care in Stroke
33	Talia Muhlmeister	Post-acute Care Transitions and Hospital Readmission for Individuals with Moderate to Severe Traumatic Brain Injury
34	Austin Nguyen	Rethinking Ketamine: No Opioid-Sparing Effect After Major Limb Amputation
35	Kevin O'Reilly	Open Abdominal Surgeries Utilizing Neuraxial Anesthesia for High Risk Patients
36	Hojung Rachel Park	Expanding the Donor Pool: Safe Recovery in Living Liver Donors Over Age 50
37	Satya Siri Paruchuri	Noise Exposure in the Neurosurgical Operating Room
38	Nihal Patel	Modifiable Risk Factors for Osteoporosis: Evidence from NHANES
39	Eric Qian	The Impact of Concomitant Atrial Fibrillation Ablation in Non-Mitral Valve Cardiac Surgery: Implications of Technical Approaches on Cost and Outcomes
40	Sonal Rajpal	Surgical Versus Nonsurgical Treatment For Adult Spinal Deformity In Elderly: A Systematic Review And Meta-Analysis
41	Rohan Rathi	The Laennec Technique: A Potential Candidate for the Standardization of Right Robotic Donor Hepatectomies
42	Christina Romano	Effectiveness of pelvic fixation methods combined with magnetically controlled growing rods for the treatment of neuromuscular scoliosis: A systematic review
43	Raghav Saravanan	Barriers to Conducting Locally Impactful Global Health Research: Regulatory, Leadership, and Partnership Challenges
44	Parsa Sedaghat	Hinge Protection Strategies in Medial Opening-Wedge High Tibial Osteotomy: A Systematic Review
45	Karina Seth	Locoregional Recurrence After Sentinel Lymph Node Biopsy Following Neoadjuvant Chemotherapy in Node-Positive Breast Cancer

Number	Name	Research Project Title
46	Samara Shabon	Foundations for Trauma System Evaluation at AlKasr AlAiny Hospital, Cairo
47	Anne Skelton	Use of Low-Dose EOS Imaging to Model Morphological Variation of the Hip
48	Hyunbin Son	Return-to-Play Following Athlete Spine Injury and Treatment in Professional and Collegiate Soccer (Football) Players: A Systematic Review
49	Junpei Tarashi	Effectiveness of Bias Mitigation Strategies in Artificial Intelligence-Based Skin Cancer Detection Across Diverse Skin Types
50	James Testerman	Prior Pancreatic Drainage Is Associated With Reduced Islet Yield and Glycemic Outcomes After Total Pancreatectomy With Islet Autotransplantation
51	Joshua Thibeault	Clinical Outcomes of Anterolateral Ligament Reconstruction versus Lateral Extra-articular Tenodesis in Revision Anterior Cruciate Ligament Reconstruction: A Systematic Review and Meta-Analysis
52	Frank Thornton	Identifying Symptom Profiles Among Psychiatrically Hospitalized Youth Using Multivariate Methods
53	Arleen Trieu	A Comparative Study of Duchenne's Muscular Dystrophy in Asian American Male Populations and White Americans
54	Gina Tuzzolo	Decitabine and dual immune checkpoint blockade with α -PD-1 and α -LAG-3 combination therapy promotes antitumor efficacy in C57BL/6 mice bearing ICB resistant E0771 murine mammary carcinoma.
55	Charanya Uppalapati	Evaluating the Rates of SBI and HSV in Infants with Incidental vs. Non-Incidental Hypothermia and Hyperthermia
56	Saksham Vashistha	Risk Factors for Failure of Patellofemoral Arthroplasty: A Systematic Review
57	Fahad Waqar Chaudhry	Patient Presents with Hypotension and Bradycardia: A Novel Triplet Oral Board Approach
58	Thérèse Weidenkopf	Train the Trainer: An Education Proposal for Implementing "Stop the Bleed" Training in Virginia Medical Schools
59	Samuel Wolfe	Impact of Generalized Joint Hypermobility Disorder on Outcomes in Anterior Cruciate Ligament Reconstruction: A Systematic Review.
60	Marissa Yee	Early Parent Engagement in the NICU: Associations Between Gestational Age and Initial Skin-to-Skin Contact
61	Lauren Lanvy Young	Glucagon-Like Peptide-1 Receptor Agonist Use is Associated with Increased Reoperation Rates in Biceps Tenodesis: A Propensity-Score Matched Analysis
62	Mehruba Zaman	Creative Arts Therapy for Mental Health : Digital Mobile Application Development
63	Christian Xavier Zbihley	Rethinking Postoperative Fluid Management in Kidney Transplantation: Outcomes of A Reduced IV Fluid Protocol