

12th Annual Research & Service Symposium

Wednesday, October 19, 2022

12:00 – 12:50 PM Keynote Speaker

*Kresge Auditorium

Emery Lu *they/them/theirs*
2nd year Medical Student

**“Being an Advocate for LGBTQ+ Patients
as a Medical Student.”**

*talk may also be viewed virtually via Zoom:



Meeting ID: 957 7525 3407
Passcode: 068908



1:00 – 3:00 PM

MSB and CARE/Crawley
E Level

Poster Session

Students will be available during
this in-person event to present
and discuss their summer
projects.

A program listing of all
poster presentations and
an event map follow.

Co-sponsored with UCCOM Medical Student Grand Rounds, Research & Industry
Relations Committee, Internal Medicine Interest Group, and Student Affairs.

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BASIC SCIENCE

Links include: abstract, poster, and recorded presentation

Poster #	Presentation Information/Link
1	The Metabolic Role of CARD14 in Epithelial Barrier Dysfunction Alvey, L SMURRF Program
2	A Model System for Studying Inflammatory Pathways and Small Molecule Inhibitors in Inflammatory Bowel Disease: Co-Culturing Human Intestinal Organoids and Macrophages Dreskin, B Gastroenterology, Hepatology, and Nutrition; MSSRP Program
3	Assessing Pre-Operative Cutting Modalities for Prosthetic Iris Devices Leone, A Cincinnati Eye Institute
4	SARS-CoV2 Proteins Increase Mu Opioid Receptor Expression in a Cell Type-Dependent Manner Liu, B Digestive Diseases, Internal Medicine
5	Spatial Heterogeneity of Macrophage Activation in the Biliary Epithelium Noriega, N Pediatric Gastroenterology; MSSRP Program
6	The Role of Mechanotransduction in Postnatal Corneal Stromal Development Nunez, N Ophthalmology
7	Functional Consequences of CAPN14 Mediated Proteolysis of Catenins in the Esophageal Epithelium in Eosinophilic Esophagitis Patel, H Allergy and Immunology
8	Efficacy of Floxed Gene Ablation During Mouse Corneal Development Porter, R Ophthalmology, Edith J. Crawley Memorial Summer Medical Student Scholar Award
9	Novel as TF-specific Humanized Antibody hRabMab1 May Help Treat Metastatic PDAC Purk, K Hematology and Oncology; MSSRP Program
10	Lung Organoids: A Model of Progenitor Alveolar Structure Rose, K Pediatric Pulmonary Biology
11	Impact of TGF-β Exposure on IL-6 Secretion in Cystic Fibrosis Airway Epithelia Scharf, G Pediatric Pulmonology; SMURRF Program
12	The Impact of TH2 Pro-Inflammatory Environment in Response to Allergen Stimulation Scott, C Allergy and Immunology
13	Exploring Innate Immune Modulation in AML with a Novel DHODH Inhibitor Stearns, B Hematology and Oncology
14	The Role of Glycoprotein VI in Aneurysm Progression Stone, B IMSTAR
15	Construction and Characterization of a Fluorescent Protein for SARS-CoV-2 Virus-Like Particles Tauer, K Pediatric Infectious Diseases
16	Genetic Signatures of Sensitivity and Resistance to Proton and X-ray Irradiation of Acute Leukemias Theile, C Pediatric Oncology
17	The Role of B7-H3 in Tumor Cell Growth in Head and Neck Squamous Cell Carcinoma Wong, Eric MSSRP Program
18	The Role of MED1 in Breast Cancer Response to Anti-HER2 Treatments Zhang, J Cancer Biology
19	Evolution of BK Polyomavirus in Immunocompromised Pediatric Patients Zhang, G IMSTAR

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CLINICAL MEDICINE

Links include: abstract, poster, and recorded presentation

Poster #	Presentation Information/Link
20	Prevalence and Medical Responsiveness of Eustachian Tube Dysfunction in Chronic Rhinosinusitis Adams, S Otolaryngology – Head and Neck Surgery
21	Impact of 2012 TSC International Imaging Recommendations Addo, A Pediatric Neurology – Tuberous Sclerosis Complex Clinic, CCHMC
22	Outcomes of High-Flow Nasal Cannula Use in Patients Hospitalized with non-Severe Bronchiolitis Bugada, M SMURRF Program
23	Relationship of Blood Pressure Circadian Dysregulation with Left Ventricular Structure and Function in Children with Obstructive Sleep Apnea Witter, A Pediatric Pulmonary Medicine; SMURRF Program
24	Impact of Seizure Onset Zone and Intracranial EEG Ictal Characteristics on Epilepsy Surgery Outcomes in Tuberous Sclerosis Complex Miecznikowski, K Pediatric Neurology
25	Tricuspid Valve Compression and Cardiopulmonary Function in Patients with Pectus Excavatum Carroll, M Radiology
26	The Efficacy and Tolerability of Cenobamate in Refractory TSC Epilepsy Cooke, A Pediatric Neurology
27	A “Skeeter Syndrome” and Other Mosquito Hypersensitivity Reactions at a Sleepaway Summer Camp in Flooded Rainy Basin Corcoran, A; Barnes, L; Bumrah, C; Middleton, R Family Medicine
28	The Burden of Migraine on Quality of Life in Chronic Rhinosinusitis Derbarsegian, A Otolaryngology – Head and Neck Surgery
29	Investigating the Neuromodulatory Effects of Transcutaneous Spinal Direct Current Stimulation on Manual Dexterity Diaz, M Neurology and Rehabilitation Medicine; MSSRP Program
30	Hip Abnormalities in Rett Syndrome and Related Disorders Duma, J Pediatric Neurology; Child and Adolescent Health MSSP
31	Outcomes Associated with Observed to Expected Interval Fetal Growth in FGR Pregnancies Fernandez, A Maternal-Fetal Medicine; Women’s Health MSSP
32	Clinically Significant Bleeding Complications of Percutaneous Breast Biopsy Foringer, A Diagnostic Radiology
33	Factors Associated with Oral Agent Failure in Gestational Diabetes Treatment Griffith, T; Edwards, K Obstetrics and Gynecology
34	Obstetric Outcomes in Gestational Diabetes Stratified by Oral Agents Only, Insulin Only, and Failed Oral Agents Griffith, T; Edwards, K Obstetrics and Gynecology
35	Initiation of Oral Agents Versus Insulin as First-Line Therapy for GDM Edwards, K; Griffith, T Maternal-Fetal Medicine, Women’s Health MSSP
36	A Retrospective Study on Racial and Ethnic Disparities in Childhood-Onset Systemic Lupus-Associated Cerebrovascular Accidents – Research In-Progress Hall, J Pediatric Rheumatology
37	Number Bias in Clinicians’ Documentation of Actinic Keratosis Removal Holovach, P Dermatology
38	Distinguishing TLE and TLE+ Using Magnetoencephalography Virtual Sensors Hong, S Pediatric Neurology

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CLINICAL MEDICINE (continued)

Links include: abstract, poster, and recorded presentation

Poster #	Presentation Information/Link
39	Variability in Minimal Clinically Important Difference (MCID) Calculation and Reporting within the Otolaryngology Literature: A Systematic Review Howard, J Otolaryngology – Head and Neck Surgery
40	Fronto-Limbic Functional Connectivity as a Predictor of Emotional Arousal in Youth at Risk for Bipolar Disorder Hu, S Psychiatry
41	Development and Validation of a Mathematical Model for Predicting Post-Surgical Neuropsychological Outcomes from High-Gamma Modulation Language Mapping Kargol, C Pediatric Neurology
42	Effects of Dietary Modifications on Mitigating Kidney Stone Formation in Medically Complex Children Lee, J Pediatric Urology; MSSRP Program
43	Effective Duration of Histrelin Acetate Implants for Puberty Suppression in Transgender Youth Lu, E Pediatric and Adolescent Gynecology
44	Impact of Traffic-Related Air Pollution on Sensitization and Wheeze in Children with Atopic Dermatitis Ludwig, A CCHMC Asthma Research
45	Prevalence and Correlates of Mood Comorbidities in Pediatric Migraine Meystedt, J Pediatric Neurology
46	Psychological Outcomes Following Cesarean Delivery and Hysterectomy Complicated by Severe Placenta Accreta Spectrum Noall, M Anesthesiology
47	Prediction of Fontan Outcomes Using T2-Weighted MRI Radiomic Features and Machine Learning Prasad, A Pediatric Radiology
48	Chance of Pregnancy Not Decreased with Increasing Time Duration Between Ultrasound and Trigger Shot in Insemination Cycles Ravipati, V Women's Health MSSP
49	Clinical Phenotype of Becker Muscular Dystrophy Shiuan, Y Pediatric Neurology
50	Machine Learning Using Echocardiographic Variables to Distinguish Unique Phenotypes of Biologic and Chronologic Age Shu, M Cardiology; IMSTAR Program
51	Improving Pediatric Intestinal Failure Outcomes Through Remote Patient Monitoring Thomas, J Pediatric Surgery; Gastroenterology, Hepatology, and Nutrition; MSSRP Program; Adolescent Health MSSP
52	Improving Compliance with Intimate Partner Violence Screening at University of Cincinnati Center for Women's Health Venkatesh, R Women's Health MSSP
53	Therapeutic Plasma Exchange: Indications and Complications Warner, D Nephrology
54	Evaluating Functional Impairment in Tourette Syndrome White, S Pediatric Neurology; MSSRP Program
55	Long-Term Outcomes of Second Primary Malignancies in Retinoblastoma Patients Wiseman, M Ophthalmology
56	Comparison of Quantitative and Qualitative Shoulder Range of Motion with Patient Reported Outcomes Harley, J Orthopaedic Surgery
57	Identifying Morphometric Criteria in Determining Outcomes in Posterior Fossa Emergent Large Vessel Occlusions Agyeman, N Neurosurgery

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CLINICAL MEDICINE (continued)

Links include: abstract, poster, and recorded presentation

Poster #	Presentation Information/Link
58	Is It Time to Treat? A Systematic Review of Conservative and Endovascular Interventions of Asymptomatic Cavernous Carotid Aneurysm Agyeman, N; Ventre, G; Street, S Neurosurgery
99	Changing the Outcome Together: Infectious Events Following Pediatric Liver Transplantation Hall, A Infectious Diseases
100	The Impact of the COVID-19 Pandemic on Access to Care for Pediatric Patients with Non-Alcoholic Fatty Liver Disease Rege, R Pediatric Gastroenterology: MSSRP Program
102	Qualitative-Quantitative Study to Understand Racial Disparities in Pediatric Pain Kumar, J Pediatric Anesthesiology

OTHER

Links include: abstract, poster, and recorded presentation

Poster #	Presentation Information/Link
75	Is It Feasible to Use a Mobile App to Provide Resources to People Who Are Homeless? Let's Ask Them! Whitford, C Family Medicine
76	Associations Between Infant Sleep and Postpartum Maternal-Infant Bonding Among Mothers with Opioid Use Disorder Xu, J Obstetrics and Gynecology; Women's Health MSSP
77	Emerging Study: Patient Perspectives in the Risk-Benefit Analysis of Transmasculine Gender Affirming Genital Surgery Lee, E Family and Community Medicine
78	Sleep Disorders and Cardiovascular Health: Production and Dissemination of Evidence-Based Best Practices for Primary Care Teams Alibegovic, S Family and Community Medicine
79	Emergency Department Visits for Heat-Related Emergency Conditions in the United States from 2008-2019 Dring, P Center for Pediatric Trauma Research – Nationwide Children's
80	Nonsurgical Intervention for Gender-Affirming Facial Feminization: A Scoping Review Elhachimi, S Mount Sinai Otolaryngology/Facial Plastic Surgery
81	Imaging Preferences of the Patient: A Scoping Review Baird, T Pediatric Radiology
82	Use of Round-table Discussions in the Community Primary Care Champions Fellowship and the Impact of Switching to Virtual Learning During the COVID-19 Pandemic: A Qualitative Analysis Sawyer, C Family and Community Medicine
83	Social Determinants of Health Associated with Intimate Partner Violence (IPV) in an Urban Obstetric Population Kuhrau, C MSSRP Program
84	US Racial and Sex-Based Disparities in Firearm-Related Deaths from 1981-2020 Young, L Center for Injury Research Policy
85	Evaluating an Integrated Primary Care and Mental Health Model through Caregiver Satisfaction and Maladaptive Behavior in Adult Patients with Intellectual and Developmental Disabilities Wang, S Family and Community Medicine
86	Ensuring Integrity of Meta-Analyses in Plastic Surgery: Need for Adequate Assessment of Publication Bias Woodyard, K Plastic and Reconstructive Surgery
101	Exploring the Factors Important to Breastfeeding Longevity in a Cohort of Black and White Adolescent Mothers Dougan, N Biostatistics and Epidemiology

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CLINICAL SURGICAL

Links include: abstract, poster, and recorded presentation

Poster #	Presentation Information/Link
59	Deviation from Ideal Bifurcation Geometry and Vessel Radii as Predictors of Aneurysm Formation and Rupture Street, S Neurosurgery
60	Brain Vasculature Color-Labeling Using the Triple-Injection Method in Cadaveric Heads Ventre, G Neurosurgery
61	In the United States, Which Patients with d-Transposition of the Great Arteries Do Not Receive Surgical Palliation? Chappel, G Cardiothoracic Surgery
62	Optimal Surveillance for Identification of Recurrence in Patients with Sacrococcygeal Teratomas Gavulic, A Pediatric Surgery
63	A Decade of Surgical Outcomes in a Structured Lung Cancer Screening Program Glenn, C Thoracic Surgery
64	Treating Post-Surgical Pain, Anxiety, and Pain Catastrophizing with Innovative Virtual Reality in Pediatric Populations Haack, L Pediatric Anesthesia – Pain Medicine
65	Risk Factors for Unplanned Postoperative ICU Admission Among Geriatric Hip Fracture Patients Hale, I Orthopaedic Surgery
66	Identifying Modifiable Barriers to Equitable Outcomes in Underrepresented Minority Patients with Complex Surgical Malignancies Harvey, K Surgery
67	Dose-Dependent Response of Maternal Peripartum Smoking in Birth Prevalence of Orofacial Clefts León, G Plastic and Reconstructive Surgery
68	Evaluation of a Multidisciplinary Pre-Operative Workup Strategy for Geriatric Hip Fractures at a Level III Trauma Center Meyer, J Orthopaedic Surgery
69	Creating a Neuronavigation Compatible Radiofrequency Lesioning Atlas for Percutaneous Treatment of Trigeminal Neuralgia Ramanathan, V Neurosurgery
70	Sludging in Ocular Surface Stem Transplantation Reinisch, C Ophthalmology
71	Investigating Outcomes of Single vs Dual Incision Approach to SLKT Bethi, M Surgery
72	Percutaneous Cholangioscope-Assisted Laser Incision of Hepaticojejunostomy Stenosis and Obstruction Byers, J Radiology
73	Preoperative Metal Allergy Patch Testing and Titanium Bar Use in Nuss Procedure Viswanath, V Pediatric Surgery – Phoenix Children's
74	Years of Dermatology Experience and Geographic Region are Associated with Outlier Performance of Excision and Destruction for Nonmelanoma Skin Cancer Woodie, B Dermatology

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SERVICE

Links include: abstract, poster, and recorded presentation

Poster #	Presentation Information/Link
87	Women Leading Healthy Change: Promoting Healthcare Self-advocacy and Health Literacy in Vulnerable Populations Bumrah, C; Duma, J; Witter, A; Ludwig, A; Noall, M; Young, L; Xu, J; Sawyer, C; Adams, S Women Leading Healthy Change
88	Providing Stress Education and Management Classes for Homeless Youth Golba, C Urban Health Project
89	Refugee Resettlement and Barriers to Healthcare Jenkins, C Urban Health Project
90	UHP: Mission Accomplished Kanthawar, P; Murphy, A Urban Health Project
91	Climate, Health, and Equity Curriculum Singstock, M; Barnes, L; Bondarchuk, N; Corcoran, A; Meystedt, J; Richards, A; Weissman, N
92	Planetary Health Report Card Weissman, N; Singstock, M; Richards, A; Barnes, L; Bondarchuk, N Medical Student Sustainability Club

TRANSLATIONAL

Links include: abstract, poster, and recorded presentation

Poster #	Presentation Information/Link
93	A Retrospective Study of Specialty Palliative Care Consultations for Intracerebral Hemorrhage Richards, A Geriatric Medicine and Gerontology – Johns Hopkins University
94	Cervical Cancer Screening in LGBTQ+ Individuals: Early Implementation of American Cancer Society Guidelines by Equitas Health Baker-Rogers, B Family and Community Medicine – Leroy Rogers Summer Preceptorship Program
95	Inhibition of the E3 Ubiquitin Ligase c-Cbl Increases Both the Duration and Magnitude of EGFR Signaling in Human Corneal Epithelial Cells Crotchett, B Pharmacology and Toxicology
96	Machine Learning Diagnosis of Small Bowel Crohn's Disease Using T2-weighted MRI Radiomic and Clinical Data Liu, R Radiology
97	ENTPD1 and SLC2A3 are Cardiomyocyte-Specific Glucocorticoid Receptor Gene Targets in the Human Myocardium of Infant Patients at Risk for Low-Cardiac Output Syndrome Piczer, K Pediatrics
98	Role of Prefrontal Cortex and Lateral Temporal Lobe in Health and Anxious/Depressed Mental States During the Performance of a Cognitive Control Task Shekara, A Neurosurgery

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Participants

Judges present 1:00-3:00pm

BASIC SCIENCE

1. Lauren Avery
2. Benjamin Dreskin
3. Adam Leone
4. Baldwin Liu
5. Nicolas Noriega
6. Nicholas Nunez
7. Hemchandra Patel
8. Robert Porter
9. Kathryn Purk
10. Kadi-Ann Rose
11. Grace Scharf
12. Claire Scott
13. Blaise Stearns
14. Bailey Stone
15. Kara Tauer
16. Caroline Theile
17. Eric Wong
18. Jasmine Zhang
19. Grace Zhang

CLINICAL MEDICINE

20. Sarah Adams
21. Afua Addo
22. Matthew Bugada
23. Abigail Witter
24. Kara Miecznikowski
25. Molly Carroll
26. Alexander Cooke
27. Alexis Corcoran
28. Armo Derbarseghian
29. Marielle Diaz
30. Jennifer Duma
31. Ashley Fernandez
32. Alyssa Foringer
33. Taylor Griffith
34. Taylor Griffith
35. Kayla Edwards
36. Janay Hall
37. Phillip Holovach
38. Seungrok Hong
39. John Howard
40. Samantha Hu
41. Christina Kargol
42. Joonsue Lee
43. Emery Lu
44. Amanda Ludwig
45. Jacqueline Meystedt
46. Madison Noall
47. Ayush Prasad
48. Vaishnavi Ravipati
49. Young Shiuian
50. Michael Shu
51. Julia Thomas
52. Roshni Venkatesh
53. David Warner
54. Sean White
55. Malcolm Wiseman
56. Jonathan Harley
57. Nana Agyeman
58. Nana Agyeman

CLINICAL SURGICAL

59. Seth Street
60. Giancarlo Ventre
61. Grant Chappel
62. Amelia Gavulic
63. Carter Glenn
64. Lauren Haack
65. Isaac Hale
66. Krysten Harvey
67. Gustavo León
68. Jacob Meyer
69. Vishan Ramanathan
70. Cameron Reinisch
71. Mridula Bethi
72. Jacob Byers
73. Vijay Viswanath
74. Brad Woodie

OTHER

75. Connor Whitford
76. Joyce Xu
77. Ermina Lee
78. Sejna Alibegovic
79. Penelope Dring
80. Sarah Elhachimi
81. Trey Baird
82. Christina Sawyer
83. Christina Kuhrau
84. Lindsay Young
85. Sharon Wang
86. Kiersten Woodyard

SERVICE

87. Ceimooni Bumrah
88. Claire Golba
89. Claire Jenkins
90. Pooja Kanthawar
91. Mitchell Singstock
92. Nicholas Weissman

TRANSLATIONAL

93. Allie Richards
94. Benjamin Baker-Rogers
95. Brandon Crockett
96. Richard Liu
97. Kevin Piczer
98. Aniruddha Shekara

