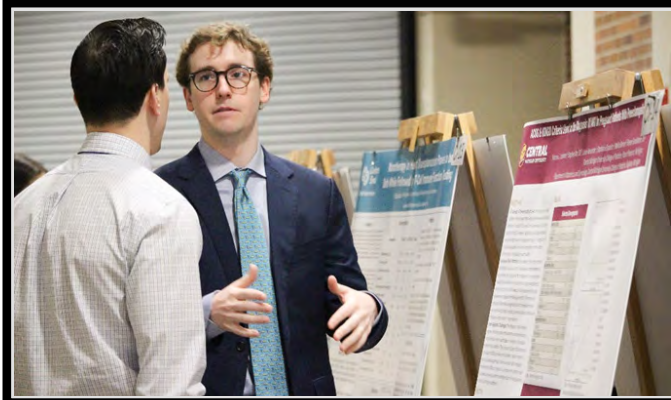




# CMU College of Medicine and Medical Education Partners

## 2025 Research Symposium



# CMU College of Medicine and Medical Education Partners 2025 Research Symposium

## Welcome

Welcome to the 2025 Research Symposium sponsored by Central Michigan University College of Medicine and Medical Education Partners. This will be our 10th year celebrating the research accomplishments of our students, residents, fellows and faculty.

This event will host over 150 presentations of research both in oral and poster format. The reviewing panel have chosen 10 for oral presentation in the categories of Basic Translational research, Clinical research, Population Health research and Quality Improvement/Medical Education research, as well as 5 oral presentations on Case Study research. These will all be presented today at the 2025 Research Symposium here at the Dow Event Center. The research spans diverse disciplines and includes research from our multiple campuses, as well as from outside research institutions.

Our plenary speaker this year is Dr. George Matar, a former graduate of the Central Michigan University College of Medicine. Dr. Matar comes to us from Family Health in Greenville, Ohio. Some of his special interests include: Public Health, Lifestyle Medicine, HIV Treatment, Adult and Pediatric LGBTQ+Care, and Adult Gender-Affirming Hormone Therapy (just to name a few).

Immediately after Dr. Matar's lecture, please stay to recognize our awardees for oral as well as poster presentations. The award ceremony will begin around 4:25 p.m. Financial support for our awardees was generously provided by the Saginaw County Medical Society Foundation and the College of Medicine Research Administration department.

We are proud of the research by our faculty, residents, fellows and students, and we sincerely thank the presenters, judges, and those in attendance for sharing our enthusiasm and celebrating our research accomplishments.

### Kathleen Cowling, D.O., M.S., M.B.A.

Professor, Surgical Discipline Chair, Central Michigan University Medical Education Partners, Central Michigan University College of Medicine

### Jennifer Granger

Executive Administrative Assistant Graduate Medical Education, Central Michigan University College of Medicine

### Ghassan Hamadeh, M.D.

Professor Family Medicine, Medicine Discipline Chair, Chief Medical Informatics Officer, Central Michigan University Medical Education Partners, Central Michigan University College of Medicine

### Nawar Hussin, M.D.

Assistant Professor, Director of Clinical Research, Central Michigan University College of Medicine

### Edward McKee, Ph.D.

Professor, Biochemistry and Genetics, Central Michigan University College of Medicine

### Karin Przyklenk, Ph.D.

Interim AVP for Clinical Research, CMU, Scientific Director, University Pediatricians Clinical Research Institute, Central Michigan University; Carman and Ann Adams Endowed Chair in Pediatric Research, Children's Hospital of Michigan; Director, Professor of Pediatric Science, Central Michigan University College of Medicine

### Neli Ragina, Ph.D.

Associate Professor Genetics and Director of Research, Central Michigan University College of Medicine

### Sethu Reddy, M.D., M.B.A.

Senior Associate Dean of Research, Central Michigan University College of Medicine

### Myra VanSyckle

Coordinator Research Administration, Central Michigan University College of Medicine

### Mary Jo Wagner, M.D.

Professor Surgical Sciences, Central Michigan University Medical Education Partners and CAO/Designated Institutional Official, Central Michigan University College of Medicine

# 2025 Research Symposium

## The Dow Event Center, Saginaw MI Agenda

**9:30 a.m.–12 p.m.**

Poster presentations and judging.

**11 a.m.–12:30 p.m.**

Lunch served.

**12:30–1:50 p.m.**

Oral Presentations Session 1A and 1B will run simultaneously. Each presenter will have ten minutes to share their work and five minutes for questions from judges and viewers.

### **Oral Presentations Session 1A**

Red Room, moderator – Neli Ragina, Ph.D.

12:30-12:35 p.m. Opening remarks, Sethu Reddy, M.D.

12:35-1:50 p.m. Oral presentations 1A-1 through 1A-5

### **Oral Presentations Session 1B**

Garden Room, moderator – Ghassan Hamadeh, M.D.

12:30-12:35 p.m. Opening remarks, Mary Jo Wagner, M.D.

12:35-1:50 p.m. Oral presentations 1B-1 through 1B-5

**1:50–2 p.m.**

Break and everyone to re-join in Red Room.

**2- 2:10 p.m.**

The Dean's Welcome, Red Room, George E. Kikano, M.D.

**2:10 p.m. – 2:30 p.m.**

State of Research, Sethu Reddy, M.D.

**2:30 p.m. – 3:45 p.m.**

Oral Presentations Session 2: Each presenter will have ten minutes to share their work and five minutes for questions from judges and viewers.

### **Oral Presentations Session 2**

Red Room, moderator – Neli Ragina, Ph.D.

2:30 p.m.- 3:45 p.m. Oral Presentations 2A-6 through 2A-10

**3:45–4:15 p.m.**

Plenary speaker - George Matar, M.D.

**4:15-4:25 p.m.**

Break

**4:25-5-p.m.**

Award announcements - Edward McKee, Ph.D and Mary Jo Wagner, M.D.

Closing summary and remarks - Sethu Reddy, M.D.

# Continuing Medical Education Credit

## Accreditation:

Central Michigan University College of Medicine is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

CMU College of Medicine designates this live activity for a maximum of 7.0 *AMA PRA Category 1 Credit*™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

## Disclosure

The planner(s) and speaker(s) have no relevant financial relationship with ineligible companies to disclose.

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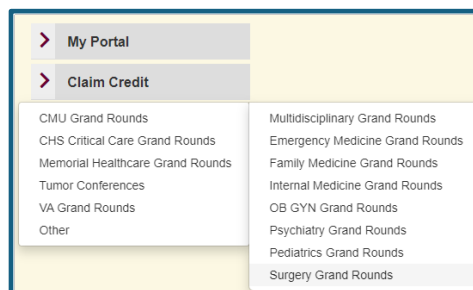


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We are always happy to assist!

# **CMU College of Medicine and Medical Education Partners 2025 Research Symposium**

## **Thank you**

### **Judging panelists**

#### **Oral Presentations**

Kai Anderson, M.D. Assistant Professor, Central Michigan University, Central Michigan University College of Medicine, Psychiatrist, CMU Health-Saginaw clinic

Andrew Bazakis, M.D. Associate Professor of Emergency Medicine and Foundational Sciences, Central Michigan University College of Medicine

MJ Conway, Ph.D. Professor with Tenure of Foundational Science, Central Michigan University College of Medicine

Kathleen Cowling, D.O. Professor Chair, Emergency Room Program Director, Central Michigan University Health, Central Michigan University Medical Education Partners

Nawar Hussin, M.D. Assistant Professor, Director of Clinical Research, Central Michigan University College of Medicine,

George Matar, M.D. Clinical Assistant Professor, Wright State University, Boonshoft School of Medicine, Greenville, OH

Sundarachalam Pindicura, M.D. General Surgery Resident, Central Michigan University

Xia Wang, M.D., Ph.D. Associate Professor, Clinical Medical Geneticist, Central Michigan University College of Medicine

## Poster Presentations

Faculty, staff and community educators from Central Michigan University College of Medicine.

- Preshit Ambade, Ph.D.
- Felix Amissah, Ph.D.
- Beth Bailey, Ph.D.
- Harold J. Bell, Ph.D.
- Wendy Biggs, M.D.
- Joydeep Chaudhuri, M.D.
- MJ Conway, Ph.D.
- Michael D. Elftman, Ph.D.
- Sam Hahn, Ph.D.
- Asef Hoque
- Nawar Hussin, M.D.
- George Kikano, M.D.
- Brianne Lewis, Ph.D.
- Kenneth Lewis, Ph.D.
- John Lowry, Ph.D.
- Brittany Luckett, M.S.
- Richard McCabe, Ph.D.
- Edward E. McKee, Ph.D.
- Jyotsna Pandey, M.D., Ph.D.
- Juliette Perzhinsky, M.D.
- Eric Petersen, Ph.D.
- Robert B. Petersen, Ph.D.
- Rosemary Poku, Ph.D.
- Neli Ragina, Ph.D.
- Sethu Reddy, M.D.
- Mariana Rosca, M.D.
- Mildred Willy, M.D.

Faculty, residents and staff from Central Michigan University Medical Education Partners.

- Ihsan Al-Sabbagh, M.D.
- Abishek Bala, M.D.
- Andrew Bazakis, M.D.
- Kenghia Billings, M.D.
- Saad Chaudhry, M.D.
- Kathleen Cowling, D.O.
- Aman Dhaliwal, M.D.
- Olubukola Faturoti, M.D.
- Leslie Francke
- Taylor Gaudard, M.D.
- Zeina Habib, M.D.
- Ghassan Hamadeh, M.D.
- Veronika Kinaschuk, M.D.
- Oleg Kinaschuk, M.D.
- Cecilia Kraus-Horbal D.O.
- Christina Maser, M.D.
- Therese Mead, D.O.
- Bryce Meck, M.D.
- Bernard Noveloso, M.D.
- Nikita Roy, M.D.
- Renee Sundstrom, D.O.
- Steve Vance, M.D.
- Mary Jo Wagner, M.D.
- Xia Wang, M.D.

Faculty from Central Michigan University Herbert H. and Grace A. Dow College of Health Professions.

- Sarah Grinn, Ph.D.
- Lixin Li, M.D., Ph.D.
- Nelda Martinez, Ph.D.
- Emily McIntire, Ph.D.
- Lenna Westerkamp, Ph.D.

Physicians from Children's Hospital of Michigan.

- Ahmad Farooqi, Ph.D.
- Hamza Gorsj, M.D.
- Tarek Husien, M.D.
- Andrew Prout, M.D.
- Ronald Thomas, Ph.D.

# Volunteers

Student volunteers from Central Michigan University College of Medicine.

- Kaitlyn Blotter, M-1
- Johnny Chen, M-1
- James Chung, M-3

Staff volunteers from Central Michigan University College of Medicine, and Medical Education Partners

- Bethany Figg
- Jennifer Granger
- Alexis Hadaway
- Colleen Harke
- Julie Johnson
- Donnelle Kiessel
- Alison Rodabaugh
- Patti Sewell
- Katie Simons
- Delaney Trombley
- Myra VanSyckle

The Dow Event Center.

- Kaitlynn O'Keefe
- Crystal Brookins

# Sponsor

Saginaw County Medical Society Foundation





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**WHAT IS THE PURPOSE OF THE FOUNDATION?**

- Provides low interest loans to medical students with ties to the Saginaw area, with a maximum of \$20,000 over four years.
- All interest is forgiven if the student returns to Saginaw upon completion of a residency to practice.
- If the loan recipient returns to Saginaw to practice upon completion of their residency and is a dues paying member of the SCMS/MSMS, 25 percent of the principal balance will be forgiven at the end of each year they are practicing in Saginaw County, with a maximum of \$5,000 per year forgiven.
- Assists the SCMS Alliance in awarding scholarships to Saginaw County nursing students.
- Awards scholarships to high school juniors and seniors interested in becoming a physician and practicing in Saginaw County.
- Provides scholarships and awards to medical students and residents for research projects.

**The Foundation relies on donations to continue and increase funding programs in order to assist as many students as possible.**

➤ *If you would like to honor a colleague who is living or deceased, please contribute to the SCMS Foundation*

\*The SCMS Foundation is a 501(c)(3) nonprofit. Gifts have charitable tax benefits so please consult with your tax advisor for specifics. A tax receipt will be provided.



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If you wish to make your gift as a memorial or tribute, please provide the following:

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*Please send notice of my gift (without specifying amount) to:*

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Mailing Address \_\_\_\_\_ City, State, Zip \_\_\_\_\_

**Checks should be made payable to the SCMS Foundation and mailed to the SCMS office at 350 St. Andrews Road, Suite 242, Saginaw, Michigan 48638-5988. Questions? Contact Joan Cramer, Executive Director at [jmcramer@saginawcountymms.com](mailto:jmcramer@saginawcountymms.com) or (989) 284-8884. Thank you!**

# Research Symposium

## April 25, 2025

### Live Program

**9:30 a.m.–12 p.m.** Poster presentations and judging.

**11 a.m.–12:30 p.m.** Lunch served.

**12:30-1:50 p.m.**

Oral Presentations Session 1A and 1B will run simultaneously. Each presenter will have ten minutes to share their work and five minutes for questions from judges and viewers.

#### **Oral Presentations Session 1A**

Red Room, moderator – Neli Ragina, Ph.D.

**12:30-12:35 p.m.** Opening remarks, Sethu Reddy, M.D.

**12:35-12:50 p.m.**

Oral 1A-1 – Yamna Waseem, M.D., Resident and Herchran Singh, D.O., Resident “Impact of Obstructive Sleep Apnea on Maternal Mortality Outcomes during pregnancy: A NIS database analysis”

**12:50-1:05 p.m.**

Oral 1A-2 – Emma DeVries, M-2 Student “Fetal Health Benefits of Gestational Exercise: A Systematic Review”

**1:05-1:20 p.m.**

Oral 1A-3 – Michael Chiaramonti, M-2 Student “Effect of a  $\beta$ 1-Adrenergic Receptor Allosteric Modulator in a Mouse Model of Ventricular Tachycardia”

**1:20-1:35 p.m.**

Oral 1A-4 – Zara Chaudhry, M-2 Student “Prenatal Opioid Exposure and Early Child Growth”

**1:35-1:50 p.m.**

Oral 1A-5 – Ahmed Ftouni, M.D., Resident and Grace Greig, M-3 Student “Comparisons Between Suicide Reporting Methodologies in the State of Michigan”

#### **Oral Presentations Session 1B**

Garden Room, moderator – Ghassan Hamadeh, M.D.

**12:30-12:35 p.m.** Opening remarks, Mary Jo Wagner, M.D.

**12:35-12:50 p.m.**

Oral 1B-1 – Amaresh Gogikar, M.D., Resident and Charles St.-Germain, M.D., Resident “Beyond the Block: A Rare Case of Lyme-Induced Cardiomyopathy”

**12:50-1:05 p.m.**

Oral 1B-2 – Ahmad Kafri, M-1 Student “Aberrant Regeneration of the Oculomotor Nerve Following Endovascular Coiling: A Novel Iatrogenic Complication”

**1:05-1:20 p.m.**

Oral 1B-3 – Batool AlQanber, M.D., Resident “Concurrent Heterozygosity of SPINK1 and CFTR Pathogenic Variants in a Pediatric Patient with Recurrent Acute Pancreatitis”

**1:20-1:35 p.m.**

Oral 1B-4 – Sayera Muqarram, M.D., Resident “A Case of Severe Symmetrical Intrauterine Growth Restriction in a Premature Infant - Diagnostic Challenges and Multidisciplinary Care”

1:35-1:50 p.m.

Oral 1B-5 – Kush Patel, M-3 Student and Ahmad Shereef Zaky, M.D., Resident “A Case of Prolonged Pica and Amylophagia in an ESRD Patient: Interplay of Dialysis-Related Stressors and Psychiatric Comorbidity”

**1:50-2 p.m.** Break and everyone to re-join in Red Room

**2-2:10 p.m.** The Dean’s Welcome, Red Room, George Kikano, M.D.

**2:10-2:30 p.m.** State of Research, Sethu Reddy, M.D.

**2:30-3:45 p.m.**

Oral Presentations Session 2. Each presenter will have ten minutes to share their work and five minutes for questions from judges and viewers.

**Oral Presentations Session 2**

Red Room, moderator – Neli Ragina, Ph.D.

2:30–2:45 p.m.

Oral 2A-6 – Bhakthi Liyanage, M-2 Student “A Comparative Study of Large Language Models’ Performance on Standardized Medical Examinations”

2:45-3 p.m.

Oral 2A-7 – Udit Thawani, M-2 Student “Factors Associated with Development of Acute Kidney Injury in Hospitalized Patients Following Traumatic Hip Fracture Surgery”

3-3:15 p.m.

Oral 2A-8 – Varun Vadnala, M-4 Student and Sydney Pauls, M-4 Student “Clinical Outcomes of Robotic versus Laparoscopic Cholecystectomy; A Retrospective Pilot Study”

3:15-3:30 p.m.

Oral 2A-9 – Andie Blankenstein, M-2 Student “Impact of Delivery Mode on Infant Intestinal Microbial Diversity and Postoperative Infection after Cardiopulmonary Bypass”

3:30-3:45 p.m.

Oral 2A-10 – Hamdi Lababidi, M-2 Student “Influence of Helicobacter pylori on Bariatric Surgery Outcomes”

**3:45–4:15 p.m.** Plenary speaker - George Matar, M.D.

**4:15-4:25 p.m.** Break

**4:25-5 p.m.** Award announcements - Edward McKee, Ph.D and Mary Jo Wagner, M.D.

Closing summary and remarks - Sethu Reddy, M.D.

# Meet our Plenary Speaker



Dr. George W. Matar is a family and preventive medicine physician and an American Academy of HIV specialist currently working at Family Health Services of Darke County as a primary care provider and core faculty at the Wright State University Boonshoft School of Medicine Rural Family Medicine Residency Program. He is a Central Michigan University College of Medicine Class of 2020 alum. Staying true to the mission of the College, Matar serves the rural and medically underserved communities in Drake County. After graduating from the College of Medicine he completed his dual residency in Family Medicine and Preventive Medicine at University Hospitals Cleveland Medical Center. During residency, he also obtained his master's in public health from Case Western University's School of Medicine.

As a medical student, Matar was the recipient of the CMU College of Medicine summer scholar award, the Blue Cross and Blue Shield of Michigan student research award, and The Arnold P. Gold Foundation Student Summer fellowship award for his scholarly work in the areas of cardiovascular and mental health. His work resulted in multiple publications and presentations at both regional and national levels.

During his time at University Hospitals Cleveland Medical Center for his Family and Preventive Medicine Residency Program, he served as chief resident and received the Top Trainee Teacher award through Case Western University's School of Medicine for his dedication towards medical student education and scholarly activities. He also completed his Public Health capstone project on the topic of Sexual and Gender Minority Health through his residency clinic that changed the climate of his clinic, making it more inclusive and welcoming for patients who identify as sexual and gender minorities. Through his capstone, he also created the first resident-run Gender-Affirming Care Clinic at University Hospitals. This project also included regular Safe Zone Training activities that educated clinic staff on topics related to sexual orientation, gender identity and gender expression.

As part of his current clinical practice, Matar provides specialty primary care to the LGBTQ community, gender-affirming care, HIV prevention (PrEP), HIV treatment, latent TB treatment, and chronic hepatitis B and C treatment. As core faculty of the residency program, he is currently the lead faculty for the Clinical Competency Committee and precepts PGY1-PGY3 residents in their continuity clinic.

Through Wright State University's Boonshoft School of Medicine, Matar also precepts third- and fourth-year medical students during their family medicine rotations and sub-internships in his clinic. He is actively involved in scholarly work and sets up health and wellness events with community partners discussing both traditional and non-traditional medicine. He also creates monthly live-stream talks titled "Talk with the Doc" to discuss health-related topics and interview community health partners.

## 2025 Index of Abstracts Accepted for the Symposium

<b>Presentation</b>	<b>Category</b>	<b>Submitter Name</b>	<b>Submitter Name Last</b>	<b>Title</b>
B-1	Basic & Translational	Garrett	Borgman	Ameliorative Properties of Trans-beta-2-styryl Boronic Acid (TBSA) on In Vivo Models of Alzheimer's Disease
B-2	Basic & Translational	Tal	Chamdi	From Self-Medication to Basic Science: Analyzing Ivermectin and Fenbendazole Use in Pancreatic Cancer Patients
Oral 1A-3	Basic & Translational	Michael	Chiamonti	Effect of a $\beta$ 1-Adrenergic Receptor Allosteric Modulator in a Mouse Model of Ventricular Tachycardia
B-3	Basic & Translational	Chinonye	Eze	Sustained Efficacy of Botulinum Toxin in Primary Palmar Hyperhidrosis: A Systematic Review of Duration, Quality of Life, and Satisfaction
B-4	Basic & Translational	Lucas	Garmo	A Systematic Review of the Use of Etanercept in Animal Models of Spinal Cord Injury
B-5	Basic & Translational	megan	O'Mara	Altered NF $\kappa$ B Signaling in Irritable Bowel Disease Affects M Cell Abundance and Immune Cell Interactions
B-6	Basic & Translational	Sid	Osborn	The effects of etanercept and methylprednisolone combinatorial therapy in a rat model of spinal cord injury
B-7	Basic & Translational	Matthew	Ruge	Molecular Characterization of Idiopathic Nephrotic Syndrome
B-8	Basic & Translational	Tim	Seyidov	Effects of UNK Gene Expression on Metabolism and Cancer Stem Cell Phenotype in Breast Cancer
B-9	Basic & Translational	Jacob	Surma	Title: Halting the cycle: KIF23 knockout using siRNA encapsulated PAMAM dendrimers on U-87 human glioblastoma cells in vitro
B-10	Basic & Translational	Nhan	Tran	Influence of Selective Versus Nonselective Joint Preparation in First Metatarsophalangeal Arthrodesis: A Systematic Review and Meta-analysis
B-11	Basic & Translational	Elsa	Varughese	Evaluating Advanced Lipidomics in Predicting Major Adverse Cardiovascular Events: A Multi-Dataset Analysis
C-1	Case Report/Case Series	Robert	Alhaddadin	Graves' Disease: a real pain in the neck
Oral 1B-3	Case Report/Case Series	Batool	AlQanber	Concurrent Heterozygosity of SPINK1 and CFTR Pathogenic Variants in a Pediatric Patient with Recurrent Acute Pancreatitis

## 2025 Index of Abstracts Accepted for the Symposium

<b>Presentation</b>	<b>Category</b>	<b>Submitter Name</b>	<b>Submitter Name Last</b>	<b>Title</b>
C-2	Case Report/Case Series	Carmen	Avramut	Culture and Self-Immolation as a Method of Suicide
C-3	Case Report/Case Series	Yashi	Ballal	Bilateral Pulmonary Embolism with Bi-atrial Thrombi Entrapped in a Patent Foramen Ovale
C-4	Case Report/Case Series	William	Ballew	Presentation and Evaluation of an Unusual Headache: A Case Report
C-5	Case Report/Case Series	Archita	Chandra	Novel GI Variant Lemierre Syndrome: Case Report
C-6	Case Report/Case Series	Nick	Chiaramonti	Management of a Traumatic Multiligament Knee Injury with Coinciding Patellar Tendon Rupture: A Case Report
C-7	Case Report/Case Series	Cleris	Christian	The Diagnostic Challenge of Persistent Thrombocytopenia: A Case of Immune Thrombocytopenia
	Case Report/Case Series	Cleris	Christian	Cemiplimab and Severe Hepatitis: The Importance of Vigilance in Immune Checkpoint Inhibitor Therapy
C-8	Case Report/Case Series	Haritha	Darapaneni	"An Unusual Presentation of Streptococcal Meningitis Masquerading as Stroke: A Diagnostic Pitfall with Fatal Consequences"
C-9	Case Report/Case Series	Joel	DeJonge	An Overuse Injury Leading to Pronator Teres Syndrome: A Case Report
C-10	Case Report/Case Series	Joel	DeJonge	Edge to edge excellence: TEER in true eccentric commissural mitral valve regurgitation
C-11	Case Report/Case Series	Elizabeth	Fearey	A Rare Case of Broad Ligament Hematoma During Intercourse
C-12	Case Report/Case Series	Chancee	Forestier	Brenner Tumor: A Case Study
	Case Report/Case Series	Brittany	Garza	Case of Bilateral Lower Extremity Pyogenic Gangrenosum
C-13	Case Report/Case Series	Carly	Gatchell	Venous Thromboembolism with Mechanical Thrombectomy in Pregnancy
Oral 1B-1	Case Report/Case Series	Amaresh	Gogikar	Beyond the Block: A Rare Case of Lyme-Induced Cardiomyopathy

## 2025 Index of Abstracts Accepted for the Symposium

<b>Presentation</b>	<b>Category</b>	<b>Submitter Name</b>	<b>Submitter Name Last</b>	<b>Title</b>
C-14	Case Report/Case Series	Amaresh	Gogikar	Dual Rescue: Managing Saddle Pulmonary Embolism and Right Atrial Thrombus with the FlowTrier System
C-15	Case Report/Case Series	Lyluma	Ishfaq	A Vascular Conundrum: Lemierre’s Syndrome with Superior Vena Cava Obstruction – A Multidisciplinary Triumph
C-16	Case Report/Case Series	Eunji	Jeong	A Rare Case of Pseudobradycardia with Ventricular Bigeminy and Recurrent Dizziness
C-17	Case Report/Case Series	Eunji	Jeong	A Challenging Case of Multilevel Spinal Discitis, Osteomyelitis, and Epidural Abscesses with Recurrent Infections – Comprehensive Management and Recovery Trajectory: A Case Report
Oral 1B-2	Case Report/Case Series	Ahmad	Kafri	Aberrant Regeneration of the Oculomotor Nerve Following Endovascular Coiling: A Novel Iatrogenic Complication
C-18	Case Report/Case Series	Afrasyab	Khan	Recurrent Pericardial Effusion After Pacemaker Lead Revision: An Interesting Cardiac Challenge
C-19	Case Report/Case Series	Carley	Kibbee	Vasopressor Induced Limb Ischemia Following Treatment for Toxic Shock Syndrome
C-20	Case Report/Case Series	Kevin	Knapp	Thyrotoxicosis Presenting as Acute Psychosis: A Case Report
C-21	Case Report/Case Series	Shivani	Lohit	A Bleeding Mystery: A Case of Uterine Artery Pseudoaneurysm
C-22	Case Report/Case Series	Obianuju	Madu	Depakote-Induced Aggression and Suicidal Ideation in a Pediatric Patient with Autism Spectrum Disorder: A Case Report
C-23	Case Report/Case Series	Obianuju	Madu	Conversion Disorder With Speech Symptoms in the Context of Fluoxetine-Induced Hypomania: A Case Report
C-24	Case Report/Case Series	Garrett	Mason	A case report of a patient with atraumatic prosthetic posterior knee dislocation
C-25	Case Report/Case Series	Matteo	Mazzella	Role of Immune Dysfunction and EBV in ALK+ Inflammatory Myofibroblastic Tumor
C-26	Case Report/Case Series	Mara	McMurray	When “You’re almost 40” isn’t the source of your pain: A case of an unexpected Popliteal Schwannoma

## 2025 Index of Abstracts Accepted for the Symposium

<b>Presentation</b>	<b>Category</b>	<b>Submitter Name</b>	<b>Submitter Name Last</b>	<b>Title</b>
C-27	Case Report/Case Series	Bradley	Miller	Suspected Lisdexamfetamine (Vyvanse) Induced QTc Prolongation: A Case Report
C-28	Case Report/Case Series	Lisa	Mun	The Diagnostic Dilemma: Pemphigus Vulgaris with Classic Features but Negative Biopsy
Oral 1B-4	Case Report/Case Series	Sayera	Muqarram	A Case of Severe Symmetrical Intrauterine Growth Restriction in a Premature Infant - Diagnostic Challenges and Multidisciplinary Care
C-29	Case Report/Case Series	Diane	Mutete	A Raspy Riddle: Laryngeal Mass in a Patient Presenting with Hoarseness
C-30	Case Report/Case Series	Jaspreet	Nannar	A Case of Post Bariatric Surgery Hypoglycemia 20 Years Later
C-31	Case Report/Case Series	Zachary	Nine	The Dangers of Diphenhydramine (Benadryl) Misuse Among Adolescents
Oral 1B-5	Case Report/Case Series	Kush	Patel	A Case of Prolonged Pica and Amylophagia in an ESRD Patient: Interplay of Dialysis-Related Stressors and Psychiatric Comorbidity
C-32	Case Report/Case Series	Yaseen	Qarroof	A Complex Case of Polyarticular Juvenile Idiopathic Arthritis with Ocular Complications
C-33	Case Report/Case Series	Elit	Quingalahua	Alagille Syndrome, uncommon cause of failure to thrive.
C-34	Case Report/Case Series	Christelle	Rahme	Pembrolizumab-Associated Immune-Mediated Pleuritis with Pleural Effusion: A case report
C-35	Case Report/Case Series	Alan	Ross	When Pneumonia Is Not Just Pneumonia: Recognizing Daptomycin-Induced Eosinophilic Pneumonia
C-36	Case Report/Case Series	Jacob	Surma	Case Report: Crohn's Disease Diagnosed Intraoperatively During a Trauma Exploratory Laparotomy
C-37	Case Report/Case Series	Toni	Tornberg	Use of U-500 regular insulin in pregnancy for suboptimal control using high doses of U-100 regular insulin
	Case Report/Case Series	Stephen	Weatherholtz	Charcot Foot Complications Following Bunion Surgery in a Diabetic Female: A Case Report
C-38	Case Report/Case Series	Benjamin	West	Chest Quivering: A Complication of Multi-Lead Dislodgement in CRT-D Implantation



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CI-2	Clinical	Margaret	Beyer	Comparing Outcomes of Mechanical and Manual CPR in Out-of-Hospital Cardiac Arrest: A Retrospective Cohort Study
	Clinical	Kasandra	Bienkowski	A Scoping Review of Single Versus Double Incision Fasciotomy for Acute Compartment Syndrome
Oral 2-9	Clinical	Andie	Blankenstein	Impact of Delivery Mode on Infant Intestinal Microbial Diversity and Postoperative Infection after Cardiopulmonary Bypass
CI-3	Clinical	Andie	Blankenstein	Optimizing Malnutrition Screening as a Predictor of Acute Kidney Injury and ICU Outcomes in Critically Ill Children
Oral 1A-4	Clinical	Zara	Chaudhry	Prenatal Opioid Exposure and Early Child Growth
CI-4	Clinical	Catherine	Crow	Examining the Relationship between Substance Use during Pregnancy and Mode of Delivery: Potential Variations by Substance Used
CI-5	Clinical	Jenna	Currier	A Retrospective Cohort Study: The Safety and Feasibility of Biologic Infusions in Dermatology Practice
CI-6	Clinical	Jenna	Currier	A Retrospective Cohort Study: The Efficacy of Omalizumab in Treating Chronic Idiopathic Urticaria and Concomitant Atopic Dermatitis
CI-7	Clinical	Christa	Deban	Mental health effects on pregnancy outcomes in patients with intellectual and developmental disabilities using the National HCUP Database
CI-8	Clinical	Joel	DeJonge	Unrecognized Endocrine Contributions in Women with Recurrent Fractures: The Need for Better Screening
CI-9	Clinical	Mashood	Farooqi	PREVALENCE AND IMPACT OF METABOLICALLY HEALTHY OBESITY ON IN-HOSPITAL OUTCOMES OF GERIATRIC PATIENTS HOSPITALIZED WITH OBSTRUCTIVE SLEEP APNEA: INSIGHTS FROM NATIONAL INPATIENT SAMPLE, 2019
CI-10	Clinical	Rica	Generoso	National Trends of Using Total Neoadjuvant Therapy (TNT) for Locally Advanced Rectal Cancer: An Analysis of the National Cancer Database

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CI-12	Clinical	Amaresh	Gogikar	Long-Term Mortality Risk in TAVR Patients with Mitral Stenosis: A Systematic Review and Meta-Analysis
CI-13	Clinical	Neehar	Haryadi	Does Hypothyroidism Confer an Increased Fracture Risk in Postmenopausal Osteoporotic Women Who Have a History of Joint Replacement: A Retrospective Study
CI-14	Clinical	Emily	Heinrich	Comprehensive Systematic Review of Spinal Cord Injuries in Equestrian Athletes: Incidence, Risk Factors, and Outcomes
CI-15	Clinical	Benjamin	Herdman	Looking Beyond the Immune Response: Relationships Between Allergies and Mental Health
CI-16	Clinical	Phoebe	Hu	Pain Features in Acute Demyelinating Optic Neuritis
CI-17	Clinical	Husna	Hussaini	Redefining Remote Healthcare: Evaluating Older Adults' Perspectives Towards a Telehealth Robot
CI-18	Clinical	Sharat	Kamath	The Effectiveness and Safety of Mavacamten for the Treatment of Obstructive Hypertrophic Cardiomyopathy: A Systematic Review
CI-19	Clinical	Afrasyab	Khan	Comparative Outcomes of MitraClip Therapy Versus Surgical and Conservative Management for Mitral Regurgitation: A Meta-Analysis and Systematic Review
CI-20	Clinical	Afrasyab	Khan	Cardiovascular Outcomes of GLP-1 Receptor Agonists in Heart Failure with Reduced Ejection Fraction: A Systematic Review
CI-21	Clinical	Abimbola	Kolawole	Factors Contributing To Achilles Tendon Re-rupture: A Systematic Review
CI-22	Clinical	Konrad	Lautenschlag	A Systematic Review of Recent Developments in Platelet-Rich Plasma Therapy in Hip Osteoarthritis: Variability in Protocols and Clinical Outcomes (2019–2024)
CI-23	Clinical	Jessica	Liu	Utilization of Medical Services Among Infants with a History of Prenatal Substance Exposure
CI-24	Clinical	Miranda	Manzo	Postpartum Depression Following a Substance-Exposed Pregnancy: The Roles of Age, Race/Ethnicity, and Prior Mental Health Experience

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CI-26	Clinical	Madison	Miller	Effects of COVID-19 on Breast Cancer Outcome
CI-27	Clinical	Lisa	Mun	Mind Over Picking: A Systematic Review of Nonpharmacological Interventions for Skin Picking Disorder
CI-28	Clinical	Carla	Obeid	Physiological Effects of a Respiratory Muscle Training Device on Ventilation and Airway Pressures
CI-29	Clinical	Riley	O'Keefe	Improving Access to Prenatal Care for Pregnant Individuals with Intellectual and Developmental Disabilities: Barriers and Potential Interventions
CI-30	Clinical	Jawad	Saad	Evaluating the Efficacy of Early Ambulation Within 4 Hours Post-Elective Lumbar Surgery: A Comprehensive Analysis from the Michigan Spine Surgery Improvement Collaborative (MSSIC)
CI-31	Clinical	Alyaa	Saleh	Depression during pregnancy: To pharmacologically treat or not?
Oral 2-10	Clinical	Udit	Thawani	Factors Associated with Development of Acute Kidney Injury in Hospitalized Patients Following Traumatic Hip Fracture Surgery
Oral 2-7	Clinical	Varun	Vadnala	Clinical Outcomes of Robotic versus Laparoscopic Cholecystectomy; A Retrospective Pilot Study
CI-32	Clinical	Makenzie	Wank	The Prognostic Nutritional Index: Assessing its Correlation in Severe Alcohol Withdrawal Syndrome in Mid-Michigan
CI-33	Clinical	Spencer	Williams	Evaluating NALIRIFOX and FOLFIRINOX for Recurrent Pancreatic Ductal Adenocarcinoma: A Systematic Review Highlighting the Evidence Gap
CI-34	Clinical	Payton	Wolbert	Does Admitting Specialty Influence the Outcome of Cholecystitis: Review of Emergency Department Community Hospital Experience
CI-35	Clinical	Ahmad	Yousef	Exploring the Extent of, and Factors associated with Osteoporosis Treatment Gap after Fragility Hip Fracture in a Community Setting
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P-2	Population Health	Gabriela	Andrzejewska	Exploring the Link Between Psychological Distress and Poly-Substance Use Among Individuals That Use Kratom

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P-4	Population Health	Nathanael	Brookshire	Examining the Impact of Student Involvement on Patient Satisfaction in Free Clinics: An Integrated Scoping Review & Meta-Analysis
P-5	Population Health	Jack	Byrne	High Levels of Overall Patient Satisfaction are Reported after Sacroplasty, Vertebroplasty and Kyphoplasty
P-6	Population Health	Nick	Chiaramonti	The Impact of Diabetes on Outcomes of Tibiotalocalcaneal Arthrodesis: A Systematic Review of Available Comparative Studies
P-7	Population Health	Nick	Chiaramonti	The Impact of Extended Tibial Stem Use on Primary Total Knee Replacement Outcomes: A Systematic Review and Meta-Analysis
P-8	Population Health	Nick	Chiaramonti	Arthroscopic Treatment of Chronic Lateral Ankle Instability Provides Better Functional Outcomes and Decreased Complications Compared to Open Broström Technique: A Systematic Review and Meta-Analysis
P-9	Population Health	Nick	Chiaramonti	Return-to-Play After Arthroscopic Distal Clavicle Excision in Athletes: Current Concepts and Literature Review
	Population Health	Shahzaib	Chughtai	Chemotherapy-Induced Cognitive Impairment: Mechanisms, Emerging Biomarkers, and Therapeutic Interventions
P-10	Population Health	Anna	Coleman	A systematic review on the developmental health implications of excessive screen exposure in children
P-11	Population Health	Anna	Coleman	A systematic review on the eating behaviors of youth exceeding electronic device recommendations
P-12	Population Health	Anna	Coleman	Child autism spectrum disorder following maternal abuse and trauma history
P-13	Population Health	Joe	Cummings	Assessing Long-term Cardiovascular Outcomes with Methylphenidate and Amphetamines Use: A Systematic Review
P-14	Population Health	Zane	Deliu	Living Situation and Healthcare Utilization in Older Adults with Self-Reported Diabetes According to the National Health Interview Survey (2021-2022)
Oral 1A-2	Population Health	Emma	DeVries	Fetal Health Benefits of Gestational Exercise: A Systematic Review

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P-16	Population Health	Emma	DeVries	Contrasting Care: a Comparative Analysis of the Indian and USA Healthcare Systems
	Population Health	Emma	DeVries	Exploring Global Health: an Observational Study of the Indian Healthcare System
P-17	Population Health	McKenna	Dooley	Navigating Barriers to Fall Prevention for Older Adults in Rural Mid-Michigan
P-18	Population Health	Alexander	Forrest	Project INCLUDE: Reducing Social Isolation and Loneliness Among Older Adults
Oral 1A-5	Population Health	Ahmed	Ftouni	Comparisons Between Suicide Reporting Methodologies in the State of Michigan
P-19	Population Health	Amaresh	Gogikar	Rising Burden of Atrial Fibrillation in Young Adults Hospitalized with Acute Coronary Syndrome: A Nationwide Analysis
P-20	Population Health	Amaresh	Gogikar	Prediabetes in Elderly NSTEMI Patients Undergoing PCI: Prevalence, Outcomes, and Insights from a Nationwide Study (2016–2020)
P-21	Population Health	Emily	Hock	Comparing the Efficacy of Levonorgestrel Intrauterine Device and Oral Levonorgestrel for Emergency Contraception: A Systematic Review and Meta-Analysis
P-22	Population Health	Rylee	Holek	Assessing the Effectiveness of the Fall Prevention Program Through Balance Assessments and Participant Surveys
P-23	Population Health	Matthew	Jackson	Physician dietary advice has little association with dietary intake of adolescents in cross-sectional and longitudinal study, evidence of moderation by weight perception
P-24	Population Health	Karam	Khasawneh	Racial Disparities in Clinical and Cost Outcomes Among Heart Transplant and Left Ventricular Assist Device Recipients: A Systematic Review
P-25	Population Health	Abimbola	Kolawole	Evaluating Sarcoid-like Reactions in Melanoma Patients Treated with Pembrolizumab: A Systematic Review
P-26	Population Health	Julia	Kwapiszewski	ENDS Use During Pregnancy: A Meta-analysis of Adverse Birth Outcomes
Oral 2-8	Population Health	Hamdi	Lababidi	Influence of Helicobacter pylori on Bariatric Surgery Outcomes

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P-27	Population Health	Erin	Mattson	Is there an Association Between PFAS Exposure and Cancer Incidence in Michigan Counties?
P-28	Population Health	Sabriyah	Mir	The Relationship Between Tobacco Use During Pregnancy and Postpartum Depression: A Retrospective Analysis
P-29	Population Health	Umme Aiman	Mirza	An Examination of the Effects of Sleep Deprivation on Cardiovascular and Bone Health: A Systematic Review
P-30	Population Health	Adil	Mohammed	GLOBAL POOLED META-ANALYSIS OF COGNITIVE IMPAIRMENT AND SUBGROUP VARIATION IN ELDERLY HEART FAILURE PATIENTS
P-31	Population Health	Devin	Neumann	Maternal Mental Health Conditions as a Predictor of Child Atopic Disease
P-32	Population Health	Jason	Odisho	Maternal Diabetes as a Risk Factor for Retinopathy of Prematurity: A Systematic Review
P-33	Population Health	Megan	O'Mara	Navigating Asthma in Pregnancy: Barriers, Disparities, and Management Strategies
P-34	Population Health	Manas	Peddiboyina	Trends and Factors Associated with Oral Nicotine Pouch (ONP) Usage among Adolescents between 2022 and 2023
P-35	Population Health	Kennedi	Price	Incidence of lower back pain in adolescent weightlifters: a systematic review
P-36	Population Health	Allison	Rakowski	Seasonal Variation in Maternal Vitamin D Levels on Neonatal Outcomes: A Systematic Review
P-37	Population Health	Lydia	Sadlowski	Bridging Generations Through Music and Games: Assessing the Impact of Intergenerational Engagement on Loneliness and Social Connection
P-38	Population Health	Aya	Sameer	A Systematic Review of Maternal Bulimia: Physical Impacts on Maternal Pregnancy Outcomes
	Population Health	Angela	Sasaki Cole	Educational Interventions and Implementation to Decrease Vaccine Hesitancy in Minority Populations
P-39	Population Health	Varun	Vadnala	Current Status of Robotic-Assisted Abdominal Surgery; A Literature Review
P-40	Population Health	Elsa	Varughese	Risk Factor Scoring System for Postpartum Depression: A Proactive Approach to Identification and Prevention

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P-41	Population Health	Spencer	Williams	Shouldering the Cost: A First Look at Insurance and Arthroplasty Outcomes
	Quality Improvement/Medical Education	Batool	AlQanber	Barriers of adequate treatment of iron deficiency anemia in pediatric patients in underserved community clinics
Q/M-1	Quality Improvement/Medical Education	Gabriela	Andrzejewska	Changes in Participant Mood in Strength and Balance Improving Exercises
	Quality Improvement/Medical Education	Carmen	Avramut	Bridging Theory and Practice: A Simulation Curriculum to Improve Psychiatry Residents' Clinical Preparedness
Q/M-2	Quality Improvement/Medical Education	Rachel	Bishop	Surveying Occupational Medicine Physicians on Worker Health and Extreme Heat
Q/M-3	Quality Improvement/Medical Education	Catherine	Crow	Improving Picky Eating Counseling by Residents in a Continuity Clinic using Interactive Educational Tools
Q/M-4	Quality Improvement/Medical Education	Rachel	Fletcher	Medical Students' Perceptions of Artificial Intelligence Use in Medical Practice: A Systematic Review
Q/M-5	Quality Improvement/Medical Education	Autumm	Heeter	Perceptions of Medical Students of the Cadaver as a First Patient or Teacher
Q/M-6	Quality Improvement/Medical Education	Tejas	Kakunje	Sleep Smarter: Innovative Screening for Obstructive Sleep Apnea with Apple Watches
Oral 2-6	Quality Improvement/Medical Education	Bhakthi	Liyanage	A Comparative Study of Large Language Models' Performance on Standardized Medical Examinations
Q/M-7	Quality Improvement/Medical Education	Bhakthi	Liyanage	Enhancing Crisis Preparedness for Rural Dispersed Older Adults: A Focus Group Analysis of the CMU-CARES Crisis Toolkit
Q/M-8	Quality Improvement/Medical Education	Alexia	Lucas	The Impact of Longitudinal Community Service on Medical Students' Attitudes and Preparedness to Care for Individuals with Disabilities
Q/M-9	Quality Improvement/Medical Education	Chad	Martin	Descriptive Insights from Program Directors and Literature: Patient Caps in Internal Medicine Residency
Q/M-10	Quality Improvement/Medical Education	Bradley	Miller	The Prescription for Audience Engagement in a Psychiatry Podcast: Insights for Medical Educators

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	Quality Improvement/Medical Education	Varun	Vadnala	The Influence of Cultural and Religious Student Organizations on Matriculated Medical Students
Q/M-12	Quality Improvement/Medical Education	Jaimie	Van De Burg	Comprehensive Sexual Education and Adolescent Health: A Study of Pregnancy and STI Rates in Grand Rapids, MI
	Quality Improvement/Medical Education	Erin	Williams	Role of Cadaveric Dissection in Highlighting Anatomical Abnormalities and Maximizing its Utility in Medical Education
Q/M-13	Quality Improvement/Medical Education	Maria	Younan	Involving End-Users in the Design of a Digital Opioid Safety Intervention for Adolescents and Young Adults with Inflammatory Bowel Diseases: A Qualitative Analysis of Patients and Clinicians



# Concourse/Poster Area

Quality Improvement/  
Medical Education

