



# **Corewell Health in West Michigan 56th Annual Research Day**

**April 28, 2023  
MSU Secchia Center  
Grand Rapids, MI**

# Table of Contents

Welcome to Research Day	3
Schedule at a Glance	4
MSU - Secchia Level One Map	5
MSU - Secchia Level Two Map	6
Institutional Review Board	7
Spectrum Health Academy of Professional Educators	8
Oral Presentations	9 - 21
Poster Presentations	22 - 29
E-Poster Presentations	30 - 31
Thank you	32



# Welcome to Research Day!

Thank you for attending the 56th annual research day! We are excited to showcase all the incredible and innovative scholarly activity throughout Corewell Health in West Michigan. Research Day 2023 features more than 180 oral and poster presentations from a diverse range of medical and surgical disciplines.

The presenters are made up of many educational backgrounds, including resident and fellow physicians, pharmacy residents, health care professionals and medical students.

Each year we look forward to this event and it would not be possible without the generous support of so many. We want to thank the judges, moderators and faculty members who have kindly contributed their time and expertise to maintain the overall excellence of the event. We would also like to thank the Office of Research and Education and the many team members who make this day a success, as well as a special thank you to MI-SAPPHIRE for their support of this event.

On behalf of the Office of Research and Education, thank you for your support of this event!

Sincerely,

Paula Schuiteman-Bishop, MBA, MPA  
Vice President, Office of Research and Education

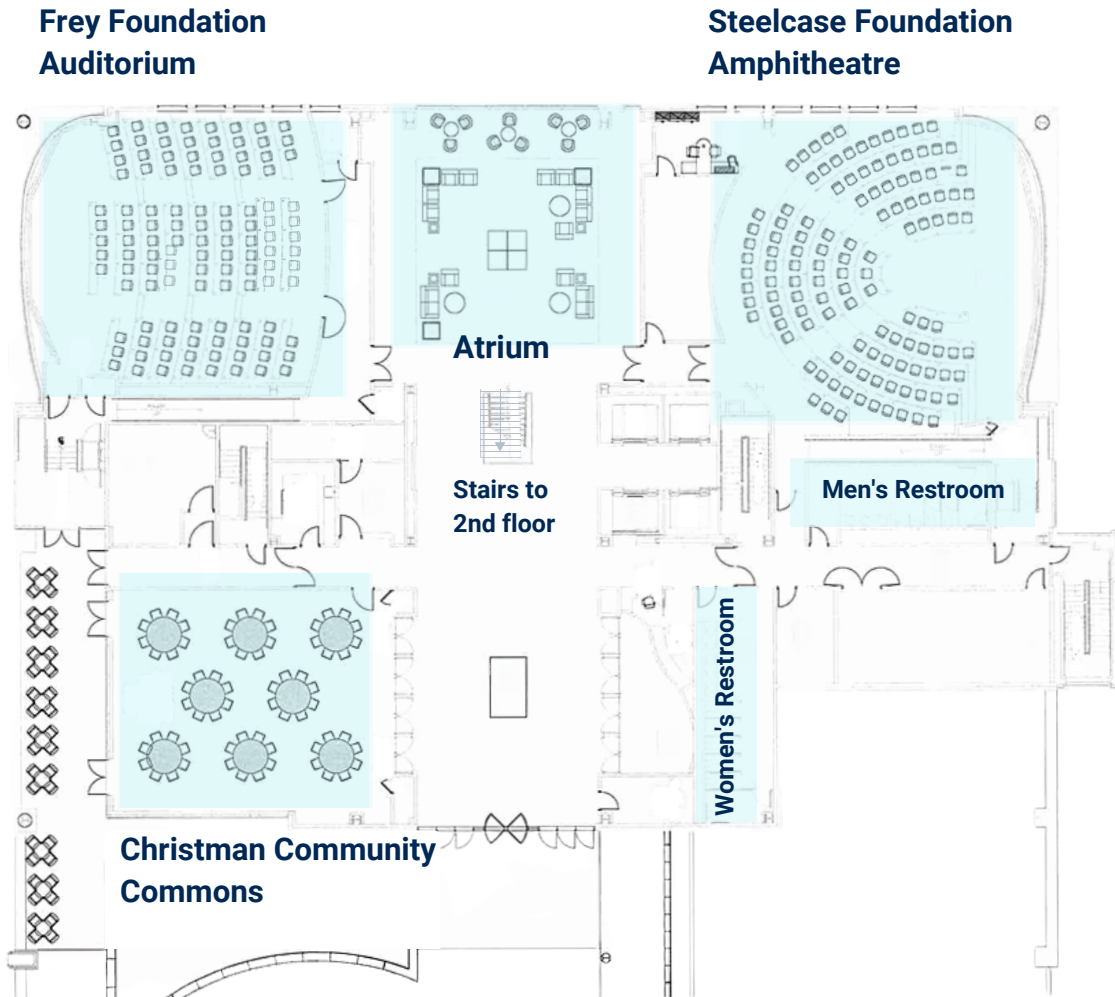
Surender Rajasekaran, MD, MPH  
Medical Director, Office of Research and Education  
DeVos Endowed Chair, Pediatric Research, Helen DeVos Children's Hospital  
Assistant Professor, Michigan State University College of Human Medicine

Candace Smith-King, MD, FAAP  
Vice President, Academic Affairs, Designated Institutional Official, Office of Research and Education  
Academic General Pediatrics, Adolescent and Young Adult Medicine, Spectrum Hospital  
Assistant Professor of Pediatrics, Michigan State University College of Human Medicine

# Schedule at a Glance

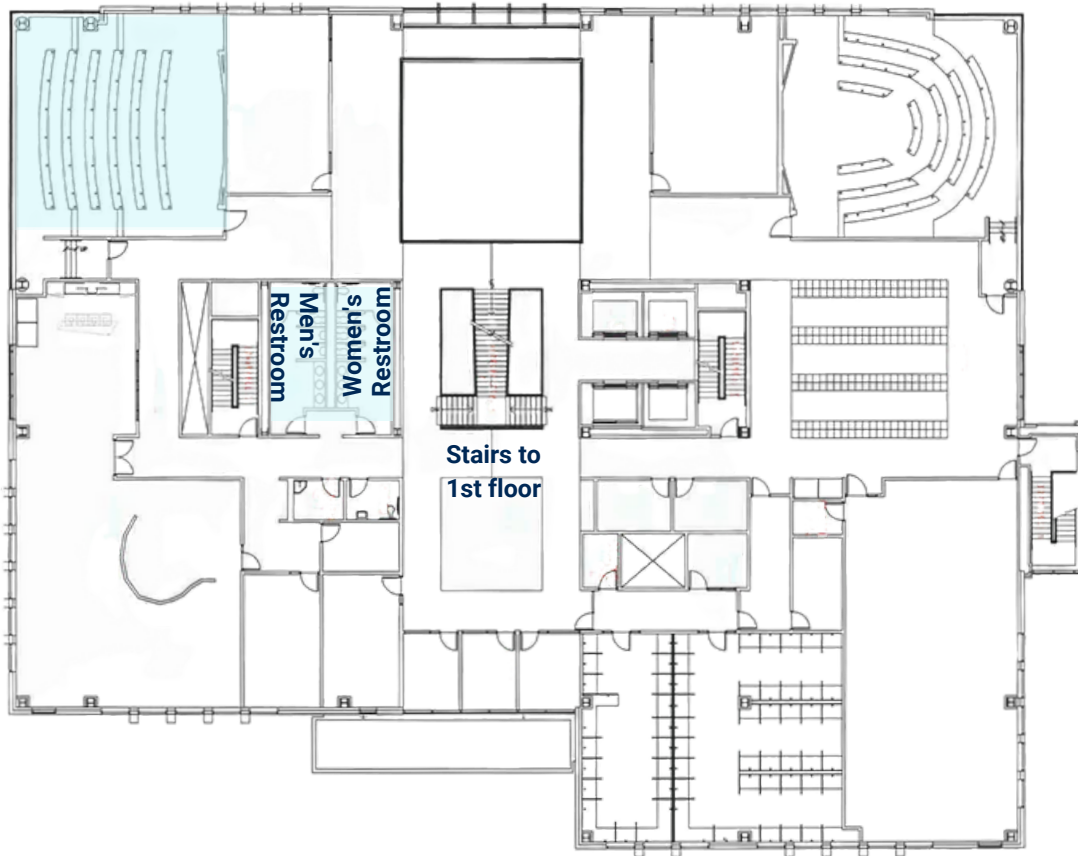
<b>7 a.m. to 8 a.m.</b>		
7 a.m. – 7:30 a.m.	Registration	MSU Secchia Center: Bill & Bea Idema Atrium
7:30 a.m. – 7:45 a.m.	MI-SAPPHIRE Welcome	MSU Secchia Center: Frey Auditorium, Steelcase Amphitheatre
7:45 a.m. – 8 a.m.	Oral Presentations	MSU Secchia Center: Frey Foundation, Steelcase Amphitheatre, Room 220, 7th floor
<b>8 a.m. to 9 a.m.</b>		
8 a.m. – 9 a.m.	Medical Education Oral presentations	25 Michigan - 3000 & 3001
8 a.m. – 9 a.m.	Oral Presentations	MSU Secchia Center: Frey Auditorium, Steelcase Amphitheatre, Room 220, 7th floor
<b>9 a.m. – 10 a.m.</b>		
9 a.m. – 10 a.m.	Poster Presentations	MSU Secchia Center: Bill & Bea Idema Atrium, Christman Community Commons
9 a.m. – 10 a.m.	Oral Presentations	MSU Secchia Center: Frey Auditorium, Steelcase Amphitheatre, Room 220, 7th floor
<b>10 a.m. – 11 a.m.</b>		
10 a.m. – 11 a.m.	Oral Presentations	MSU Secchia Center: Frey Auditorium, Steelcase Amphitheatre, Room 220, 7th floor
10 a.m. – 11 a.m.	SHAPE Research Huddles	25 Michigan - 3000 & 3001
<b>11 a.m. - Noon</b>		
11 a.m. – Noon	SHAPE Goal Setting & Individual Learning Plans workshop	25 Michigan - 3000 & 3001
11 a.m. – Noon	Oral Presentations	MSU Secchia Center: Frey Auditorium, Steelcase Amphitheatre, Room 220, 7th floor
<b>Noon - 1 p.m.</b>		
Noon – 12:30 p.m.	Lunch *Available at 11:30 a.m.	MSU Secchia Center: Bill & Bea Idema Atrium
Noon – 1 p.m.	SHAPE Keynote speaker - Mary McBride, MD	25 Michigan - 3000 & 3001
12:30 p.m. – 1 p.m.	Oral Presentations	MSU Secchia Center: Frey Auditorium, Steelcase Amphitheatre, Room 220
<b>1 p.m. - 2 p.m.</b>		
1 p.m. – 1:30 p.m.	SHAPE Medical Education Awards	25 Michigan - 3000 & 3001
1 p.m. – 2 p.m.	Oral Presentations	MSU Secchia Center: Frey Auditorium, Steelcase Amphitheatre, Room 220

# MSU - Secchia Level One Map



# MSU - Secchia Level Two Map

Room 220



## Additional Spaces

- MSU Secchia Center 7th floor - **Research Day** oral presentations
- 25 Michigan Room 3000 & 3001 - **Research Day** oral presentations
- MSU Secchia - lactation rooms are located the 3rd floor room 311 and the 7th floor room 703

# Institutional Review Board

IRB analysts will be available to help you navigate IRB Manager and answer all of your questions. Check out our new SharePoint IRB page on InSite to stay up to date on the latest policies, guidance documents, and tips and tricks for IRB success by scanning the barcode below.



If you miss us or have questions later, email us at [irbassist@spectrumhealth.org](mailto:irbassist@spectrumhealth.org).



# SHAPE PRESENTS MEDICAL EDUCATION DAY

**APRIL 28, 2023  
8 AM- 1:30 PM  
@ 25 MICHIGAN**

All SHAPE events take place in rooms 3000 and 3001 & CME will be available for those who attend the Keynote

SHAPE is thrilled to announce the schedule for the 2nd annual Medical Education Day. Medical Education Day will run concurrently with Spectrum Health's Research Day. We encourage all interested to pop in for a presentation, session or workshop!

This year we are thrilled to host Dr. Mary McBride as our keynote speaker. Dr. McBride is a pediatric cardiologist at the Lurie Children's Hospital of Chicago. She is also an Associate Professor of Pediatrics and Medical Education at Northwestern University Feinberg School of Medicine. Join us at noon for her keynote on the power of feedback.



## SCHEDULE OF EVENTS



### 8AM-9AM: Oral Presentations

Join us to hear oral presentations of current research projects related to medical education and quality improvement.



### 10AM-11AM: Research Huddles

We will have several round tables on topics related to medical education. Here you'll be able to brainstorm and collaborate on possible research project ideas.



### 11AM-12PM: Workshop on Goal Setting & Individual Learning Plans

This interactive workshop sponsored by the Faculty Development Team is on goal setting and individual learning plan development for clinical educators.



### 12PM-1PM: Keynote Address

Dr. Mary McBride will be presenting her talk titled "Feedback, Fallacies, and Other F Words" as our keynote address. Attend in person or on [Teams](#).



### 1PM-1:30PM: Award Presentation

We will conclude our day with the presentation of SHAPE's annual Medical Educator Award.



# Oral Presentations

7:45 a.m. - 7:55 a.m.

Location	Title, Presenter(s), Authors, Affiliations/Institutions
MSU Secchia Center Frey Auditorium	<b>Evaluation of Prehospital Management of Pediatric Seizures</b> Presenter: Stephen Gunnink, DO Authors: Stephen Gunnink, DO; Bradley Emmerich, MD; Jon Felt, MD; Todd Chassee, MD Spectrum Health; Helen DeVos Children's Hospital; Michigan State University College of Human Medicine
MSU Secchia Center Steelcase Amphitheater	<b>An uncommon case of a functioning, retroperitoneal paraganglioma</b> Presenter: Alexandra Mouch, MD Authors: Alexandra Mouch, MD; Mathew Chung, MD, FACS Spectrum Health; Michigan State University
MSU Secchia Center 2nd Floor Room 220	<b>Risk of cesarean section with induction of labor in morbidly obese women</b> Presenter: Jenna Zimmerman, MD Authors: Jenna Zimmerman, MD; Allison Swider; Michael Tsimis, MD Spectrum Health; Michigan State University
MSU Secchia Center 7th Floor	<b>Lower rates of clinically-significant prostate cancer are present in PI-RADS 4 and 5 lesions in the transitional zone than peripheral zone</b> Presenter: Jessica Shannon Authors: Jessica Shannon; Sabrina L. Noyes; Andrew Moriarity MD; Ji Qi; Bruce Lyu; Brian R Lane MD PhD; for the Michigan Urological Surgery Improvement Collaborative Michigan State University College of Human Medicine

8:00 a.m. - 8:10 a.m.

MSU Secchia Center Frey Auditorium	<b>Evaluation of Commercially Available Suture Removal Kits</b> Presenter: Sydney Hudock Authors: Matthew Bageris; Darian Mills; Annie Vu; Nicholas Pigg; Kyle Bivins; Sydney Hudock; Jeffrey Haus DO; Bradley Emmerich MD; Angela Zamarripa MD; Jeffrey Jones MD Spectrum Health; Michigan State University College of Human Medicine
MSU Secchia Center Steelcase Amphitheater	<b>Cryptococcal meningoenephalitis in an immunocompetent patient</b> Presenter: Kevin FitzGerald, DO Authors: Kevin FitzGerald, DO; Joshua D. Donkin, MD; Gordana Simeunovic, MD Spectrum Health
MSU Secchia Center 2nd Floor Room 220	<b>The HAT study: The effect of increased HbA1c by Trimester in pregestational diabetes</b> Presenter: Chantip Tharanon, MD Authors: Chantip Tharanon, MD; Lisa Thiel, DO Spectrum Health
MSU Secchia Center 7th Floor	<b>Intraparenchymal brain metastases in adenocarcinoma of the prostate: a case series</b> Presenter: Caleb Szymanski Authors: Caleb Szymanski, BS; Leonard Verhey, MD, PhD; Andres Restrepo-Orozco, MD; Jawad Khazaal, MD; Meggan Walsh, DO; Justin Singer, MD; Rushna Ali, MD Spectrum Health; Michigan State University College of Human Medicine

Location	Title, Presenter(s), Authors, Affiliations/Institutions
25 Michigan Room 3001	<p><b>High Flow Holiday to Reduce Intervention Overuse in Bronchiolitis</b>            Presenter: Joyce Tam, MD            Authors: Joyce Tam, MD; Brett Leingang, MD; Allison Long, MD; Aamna Hafeez, DO; Christina Heyboer, MD; Josh Kim, DO            Spectrum Health; Helen DeVos Children's Hospital</p>
<b>8:15 a.m. - 8:25 a.m.</b>	
MSU Secchia Center Frey Auditorium	<p><b>Something for Pain: Managing "Simple Toothache" in Children Presenting to the Emergency Department</b>            Presenter: Xhesika Topalli            Authors: Xhesika Topalli; Katie Wilk; Kaitlin Kreuser; Tyler Sadilek; Meredith Busman MD; Tom Sapp MD; Melisa Gregica MD; Tom Peterson MD; Lindsey Ouellette MS; Jason Seamon DO; Jeffrey Jones MD            Spectrum Health; Michigan State University College of Human Medicine</p>
MSU Secchia Center Steelcase Amphitheater	<p><b>Complicated Crohn's Disease with Colopleural Fistula Managed with Lobectomy and Diaphragm Reconstruction</b>            Presenter: Alexandra Sasha Laykova, DO            Authors: Alexandra S Laykova, DO; Douglas E Beckman, MD; Geoffrey T Lam, MD            Spectrum Health; Michigan State University College of Human Medicine</p>
MSU Secchia Center 2nd Floor Room 220	<p><b>The Impact of the Change in The Diagnostic Criteria for Fetal Growth Restriction on Obstetric and Neonatal Outcomes</b>            Presenter: Eniola Ibirogba, MBBS            Authors: Eniola R. Ibirogba, MBBS; Casey Wizner, Michael E. Tsimis, MD; Vivian C. Romero, MD            Spectrum Health</p>
MSU Secchia Center 7th Floor	<p><b>An Unusual Example of Aggressive Intervention Aligned With Patient's Goals of Care Within Hospice: Blow-hole Colostomy For Severe Large Bowel Obstruction</b>            Presenter: Gabrielle Ezell, MS            Authors: Gabrielle Ezell, MS; Gretchen Roe, MD; Karen Ogle, MD            Spectrum Health; Michigan State University College of Human Medicine</p>
25 Michigan Room 3000	<p><b>The Role of Total Abdominal Hysterectomy Simulations in the Advent of Minimally Invasive Gynecologic Surgery</b>            Presenter: Jessica Garcia de Paredes Viggiano, MD            Authors: Jessica Garcia de Paredes Viggiano, MD; Jessica Lalley, MD; Ashley-Ann Storms, MD            Spectrum Health</p>
25 Michigan Room 3001	<p><b>Assessing the Impact of Opioid Prescribing Best Practice Advisories</b>            Presenter: Michael Maranets, PharmD            Authors: Michael Maranets, PharmD; Amy Pouillon, PharmD, Marti Slot, PharmD            Spectrum Health</p>

8:30 a.m. - 8:40 a.m.

Location

Title, Presenter(s), Authors, Affiliations/Institutions

MSU Secchia Center  
Frey Auditorium

**Breaking Bad News: How Doctors Communicate Life-threatening Diagnoses on Television**  
Presenters: Amanda Croft and Katrina Elzinga  
Authors: Amanda Croft; Deepthi Devireddy; Kurt Frick; Austin Fellows; Katrina Elzinga; Richard Steffen; Kyle Bivins; Kaleb Ramon; Ainslie Johnson; Jennifer Bach MD; Angela Zamarripa MD, Jeffrey Jones MD  
Spectrum Health; Michigan State University College of Human Medicine

MSU Secchia Center  
Steelcase Amphitheater

**When I met Monkeypox**  
Presenter: Joshua D. Donkin, MD  
Authors: Joshua D. Donkin, MD; Gordana Simeunovic, MD  
Spectrum Health; Michigan State University College of Human Medicine

MSU Secchia Center  
2nd Floor Room 220

**Infarct Growth During Interfacility Transfer in an Integrated Stroke Network**  
Presenter: Anvita Potluri  
Authors: Anvita Potluri; Nancy Abarca; Malgorzata Miller; Alicia Stowe; Brian Wideman; Jenny Tsai; Megan Kremers; Tricia Tubergen; Andrew Kline; Todd Mulderink; Jiangyong Min; Nabil Wees; Nadeem Khan; Asad Ahrar; Justin Singer; Paul Mazaris; Laurel Packard; Adam Oostema; Muhib Khan  
Spectrum Health; Michigan State University

MSU Secchia Center  
7th Floor

**What can we say about early onset colorectal cancer in West Michigan over the past 2 decades?**  
Presenter: Anjali Chandra  
Authors: Anjali Chandra; Jesse Kelley, MD; John Ochieng; James Ogilvie, MD  
Michigan State University College of Human Medicine

25 Michigan  
Room 3000

**Sustainability and Cost Savings in Medical Education**  
Presenters: Dale Chilton Craig McEwan Nick Edgerly  
Authors: Dale Chilton; Craig McEwan; Nick Edgerly; Joy Tomkins; Dr. Dale McNinch  
Spectrum Health

25 Michigan  
Room 3001

**Long Term Outcomes of Traumatic Brain Injury Following Craniomaxillofacial Trauma: Protocol and Preliminary Data**  
Presenter: Reece Moore, MD  
Authors: Reece Moore, MD; Anna Carlson, MD  
Spectrum Health

8:45 a.m. - 8:55 a.m.

MSU Secchia Center  
Frey Auditorium

**Assessing Ergonomics at Computer Workstations in the Emergency Department**  
Presenter: Andrew Hulsman  
Authors: Andrew Hulsman; Layla Hak; Jonathan Thompson; Brandon Trop; Avery Sena; Victoria Moaddel; Faten Khalil; Konstandina Stavropoulos; Cynthia Kuk; Brooke Rezmer; Erin Leach MD; Deepthi Devireddy; Chris Benner MD; Christian Kolacki MD; Jeffrey Jones MD  
Spectrum Health; Michigan State University College of Human Medicine

Location	Title, Presenter(s), Authors, Affiliations/Institutions
MSU Secchia Center Steelcase Amphitheater	<p><b>Psychosocial Support for Young Adults with Chronic Illness: An Unmet Need</b>            Presenter: Ai Yamasaki, MD            Authors: Ai Yamasaki, MD; Elena Wahmhoff, MD; Jonathan Abraham, MD            Spectrum Health; Helen DeVos Children's Hospital</p>
MSU Secchia Center 2nd Floor Room 220	<p><b>Direct Oral Anticoagulants Versus Warfarin in the Treatment of Cerebral Venous Thrombosis (ACTION-CVT): A Multicenter International Study</b>            Presenter: Yao Cheng            Authors: Shadi Yaghi; Liqi Shu; Ekaterina Bakradze; Setareh Salehi Omran; James A. Giles; Jordan Y. Amar; Nils Henninger; Marwa Elnazeir; Ava L. Liberman; Khadean Moncrieffe; Jenny Lu; Richa Sharma; Yee Cheng; Adeel S. Zubair; Alexis N. Simpkins; Grace T. Li; Justin Chi Kung; Dezaray Perez; Mirjam Heldner; Adrian Scutelnic; David Seiffge; Bernhard Siepen; Aaron Rothstein; Ossama Khazaal; David Do; Sami Al Kasab; Line Abdul Rahman; Eva A. Mistry; Deborah Kerrigan; Hayden Lafever; Thanh N. Nguyen; Piers Klein; Hugo Aparicio; Jennifer Frontera; Lindsey Kuohn; Shashank Agarwal; Christoph Stretz; Narendra Kala; Sleiman El Jamal; Alison Chang; Shawna Cutting; Han Xiao; Adam de Havenon; Varsha Muddasani; Teddy Wu; Duncan Wilson; Amre Nouh; Syed Daniyal Asad; Abid Qureshi; Justin Moore; Pooja Khatri; Yasmin Aziz; Bryce Casteigne; Muhib Khan; Yao Cheng; Brian Mac Grory; Martin Weiss; Dylan Ryan; Maria Cristina Vedovati; Maurizio Paciaroni; James E. Siegler; Scott Kamen; Siyuan Yu; Christopher R. Leon Guerrero; Eugenie Atallah; Gian Marco De Marchis; Alex Brehm; Tolga Dittrich; Marios Psychogios; Ronald Alvarado-Dyer; Tareq Kass-Hout; Shyam Prabhakaran; Tristan Honda; David S. Liebeskind; Karen Furie            Spectrum Health</p>
MSU Secchia Center 7th Floor	<p><b>Early Recurrences of Stage I and II cutaneous melanoma: Preliminary Results from a Prospective Standardized Surveillance Study Using an Algorithm Based on Anatomic Stage and Molecular Profiling</b>            Presenter: Christina M. Druskovich            Authors: Christina M. Druskovich, BS; Jesse Kelley, MD; Mariam Khan, MD, Corewell Health, General Surgery Residency; Marianne Melnik, MD; G. Paul Wright, MD            Michigan State University College of Human Medicine</p>
25 Michigan Room 3000	<p><b>Transition to Home: A Novel Approach to Mitigating the Critical Pediatric Bed Shortage with Early Discharges</b>            Presenter: Spencer Adams            Authors: Andrea Hadley, MD; Justin Steele, MD; Spencer Adams            Spectrum Health; Helen DeVos Children's Hospital; Michigan State University College of Human Medicine</p>
25 Michigan Room 3001	<p><b>Medication Wreck-Conciliation: Picking Up the Pieces with Geriatric Trauma Advanced Practice Providers</b>            Presenter: Kathy Crystal, DNP, AGNP-C            Authors: Kathy Crystal, DNP, AGNP-C; Benjamin Gayed, MD; Laura Krech, MPH; Steffen Ponders, BS; Matthew M. Lypka, MPH; Alistair Chapman MD, FACS            Spectrum Health</p>

9:00 a.m. - 9:10 a.m.

**Location**

**Title, Presenter(s), Authors, Affiliations/Institutions**

MSU Secchia Center  
Frey Auditorium

**Severe Intracranial Hemorrhage as the Initial Presentation of B-Lymphoblastic Leukemia**

Presenters: Bradley W. Emmerich, MD  
Authors: Bradley W. Emmerich, MD; Matthew T. Singh, MD; Jeffrey S. Jones, MD  
Spectrum Health; Michigan State University College of Human Medicine

MSU Secchia Center  
Steelcase Amphitheater

**Acute Abdominal Pain and Constipation in 8-year-old Girl**

Presenters: Christina Varghese, MD; Paige Simms, MS2  
Authors: Christina Varghese, MD; Paige Simms, MS; Kira Sieplinga, MD; Joseph Junewick, MD  
Helen DeVos Children's Hospital

MSU Secchia Center  
2nd Floor Room 220

**Safety and efficacy comparison between Lacosamide, Brivaracetam, and Levetiracetam in the treatment of non-convulsive status epilepticus (NCSE)**

Presenter: Maria Elisa Samaniego Izurieta, MD  
Authors: Maria Elisa Samaniego Izurieta, MD; David E. Burdette, MD; Michelle de Jesus Brazitis, MD  
Spectrum Health

MSU Secchia Center  
7th Floor

**Evaluation of telemedicine follow-up in surgical oncology patients: A propensity score matched analysis**

Presenter: Charles Reed  
Authors: Elizabeth Martin; Jesse K. Kelley, MD; Katherine Kelly, MD; Sydney Rechner; Charles Reed; Hannah Schwartz; Sarah Kim; Sophie Spencer; Mura Assifi, MD; G. Paul Wright, MD; Mathew Chung, MD  
Michigan State University

9:15 a.m. - 9:25 a.m.

MSU Secchia Center  
Frey Auditorium

**F(ab')<sub>2</sub> Use in Envenomation by Eastern Massasauga Rattlesnake**

Presenter: Jamie Katuna, MD  
Authors: Jamie Katuna, MD; Brad Riley, MD  
Spectrum Health

MSU Secchia Center  
Steelcase Amphitheater

**Autoimmune Pancreatitis vs Pancreatic Mass in a Pediatric Patient**

Presenter: Leo Fawaz, MD  
Authors: Leo Fawaz, MD; Vanessa Cardenas Soto, MD; Michael Metz, MD; George Michael Zacur, MD, MS  
Spectrum Health; Helen DeVos Children's Hospital

MSU Secchia Center  
2nd Floor Room 220

**Isolated brainstem involvement in a patient with Progressive Multifocal Leukoencephalopathy (PML)**

Presenter: Jordan, Gates, DO  
Authors: Jordan, Gates, DO; Maria Samaniego, MD  
Spectrum Health

MSU Secchia Center  
7th Floor

**Effect of Intra-Operative Coronary Artery Bypass Flow Measurements on Graft Patency and Clinical Outcomes**

Presenter: Holliann Willekes  
Authors: Holliann Willekes, JD; Ryan Sanii, BS; Jessica Parker, MS; Justin Fanning, MD; Stephane Leung, MD; Marzia Leacche, MD; Edward Murphy, MD; Tomasz Timek, MD, PhD  
Spectrum Health; Michigan State University College of Human Medicine



9:30 a.m. - 9:40 a.m.

Location	Title, Presenter(s), Authors, Affiliations/Institutions
MSU Secchia Center Frey Auditorium	<b>Acute Promyelocytic Leukemia: A Feared Oncologic Emergency</b> Presenters: Julie J. Vanderberg, MD Authors: Julie J. Vanderberg, MD; Jeffrey S. Jones, MD Spectrum Health
MSU Secchia Center Steelcase Amphitheater	<b>Incidence of Acute Kidney Injury in Infants Hospitalized in the Neonatal Intensive Care Unit and the Relationship to Nephrotoxic Medications and Intrinsic Patient Factors</b> Presenters: Larissa Ostfeld, PharmD Authors: Larissa Ostfeld, PharmD; Sara Ogrin, PharmD; BCPPS, BCIDP; Lindsay Schray, PharmD, BCPPS; Cuyler Huffman, MS Spectrum Health; Helen DeVos Children's Hospital
MSU Secchia Center 2nd Floor Room 220	<b>Dyspnea in Right Aortic Arch</b> Presenter: Yajing Ji Authors: Yajing Ji; Gustavo Cumbo Nacheli Spectrum Health
MSU Secchia Center 7th Floor	<b>Splenic Artery Aneurysm with Fistula to Jejunum: A Case Report</b> Presenter: Caleb Wendt Authors: Caleb Wendt, MS; Jesse Kelley, MD; Mathew Chung, MD Michigan State University College of Human Medicine

9:45 a.m. - 9:55 a.m.

MSU Secchia Center Frey Auditorium	<b>Pouch failure in patients with Crohn's disease after ileal pouch anal anastomosis (IPAA)</b> Presenter: Jesse K. Kelley, MD Authors: Jesse K. Kelley, MD; Roxanne Kyriakakis, MD; James Ogilvie, MD, MS Spectrum Health
MSU Secchia Center Steelcase Amphitheater	<b>Timing of low-dose dexamethasone therapy by postmenstrual age and its impact on short-term outcomes and chronic lung disease among extremely premature infants</b> Presenter: Marie Tysman, MD, MPH Authors: Aya Al Noubani, MD; Benedict Doctor, MD; Christina Varghese, MD; Marie Tysman, MD, MPH Helen DeVos Children's Hospital
MSU Secchia Center 2nd Floor Room 220	<b>Fevers of unknown origin and the diagnostic dilemma of a case of miliary tuberculosis in an immunocompromised female</b> Presenter: Janene Berli, MD Authors: Janene Berli, MD; Christina Heyboer, MD; Ghaleb Khirfan, MD; Brian Petroelje, MD Spectrum Health; Michigan State University
MSU Secchia Center 7th Floor	<b>Use of Point-Of-Care Ultrasound in the Diagnosis of Spontaneous Coronary Artery Dissection Presenting as a Myocardial Infarction in a Young Woman</b> Presenter: Deepthi Devireddy, MS Authors: Deepthi Devireddy, MS; Rebecca Loney, MD; Matthew Flannigan, DO Michigan State University College of Human Medicine

10:00 a.m. - 10:10 a.m.

Location	Title, Presenter(s), Authors, Affiliations/Institutions
MSU Secchia Center Frey Auditorium	<b>Comparison of Emergency Department 14-Day Recidivism Rates in Emergency Behavioral Health Patients: EmPATH Versus Standard ED Care</b> Presenters: Austin MacKenzie, MD Authors: Austin MacKenzie, MD; Stephanie Mullennix, MSN RN AGCNS-BC CEN CPHQ; Craig Bilbrey, MD FACEP Emergency Care Specialists
MSU Secchia Center Steelcase Amphitheater	<b>The First 5 Minutes: Increasing resident physicians' comfortability being the first responders to pediatric codes</b> Presenters: Cheryl Mukosiku, MD Authors: Cheryl Mukosiku, MD; Bridget L. Moore, MD; Natalia Perecki, MD; Geralyn Moody, MD Spectrum Health; Helen DeVos Children's Hospital; Michigan State University College of Human Medicine
MSU Secchia Center 2nd Floor Room 220	<b>A 20-year-old female presenting with a pelvic mass and severe hypercalcemia</b> Presenter: Andrea Westman, MD Authors: Andrea Westman, MD; Carlos Tavera, MD Spectrum Health; Helen DeVos Children's Hospital; Michigan State University College of Human Medicine
MSU Secchia Center 7th Floor	<b>Ergonomic Risk Factors During Clinical Procedures in the Emergency Department</b> Presenter: Andrew Hulsman Authors: Brandon Trop; Konstandina Stavropoulos; Jonathan Thompson; Brooke Rezmer; Andrew Hulsman; Deepthi Devireddy; Layla Hak; Avery Sena; Victoria Moaddel; Faten Khalil; Cynthia Kuk; Erin Leach MD; Melisa Gagrira MD; Chris Benner MD; Jeffrey Jones MD Spectrum Health; Michigan State University College of Human Medicine
10:15 a.m. - 10:25 a.m.	
MSU Secchia Center Frey Auditorium	<b>Antidepressant Use and COVID-19 Disease Severity in Hospitalized Patients</b> Presenter: Cody Voss, DO Authors: Cody Voss, DO; Harland Holman, MD; Brian Wilder, DO; Michael Bouthillier, PharmD Spectrum Health
MSU Secchia Center Steelcase Amphitheater	<b>Incidence of dexmedetomidine associated drug-fever in pediatric cardiac patients</b> Presenter: Kristen Michael, PharmD Authors: Kristen Michael, PharmD; Ankit Shukla, PharmD, BCPPS; Lindsay Schray, PharmD, BCPPS; Matthew Naden, PharmD, BCPPS; Jessica Parker, MS, GStat Helen DeVos Children's Hospital
MSU Secchia Center 2nd Floor Room 220	<b>Evaluating Effectiveness and Safety of Venous Thromboembolism Prophylaxis in Adult Hematopoietic Stem Cell Transplant Patients</b> Presenter: Areeb Nagamiyan, PharmD/MPA Authors: Areeb Nagamiyan, PharmD/MPA; Lauren Ice, PharmD, BCOP, BCPS; Alicia Stowe MS Spectrum Health

Location	Title, Presenter(s), Authors, Affiliations/Institutions
MSU Secchia Center 7th Floor	<p><b>When Cannabis Use Goes Wrong: Characteristics and Outcomes in Patients Hospitalized with Acute Cannabis Toxicity</b></p> <p>Presenter: Victoria Moaddel            Authors: Victoria Moaddel; Emma Dixon; Abigail Behmlander; Man Yee Keung; Tiffany Fleeger; Andrea Reeder RN, Kristin Sternhagen; Lindsey Ouellette MS; Bradley Emmerich MD; Jeffrey Jones MD            Spectrum Health; Michigan State University College of Human Medicine</p>
<b>10:30 a.m. - 10:40 a.m.</b>	
MSU Secchia Center Frey Auditorium	<p><b>Caring for a Pediatric Burn Patient in the Midst of a RSV Outbreak</b></p> <p>Presenter: Aryana Sharrak, MD            Authors: Aryana Sharrak, MD; Douglas Snow, MD; Dustin Tran, DO; Alistair Chapman, MD; Douglas Kwazneski, MD; Patricia Pentiak, MD, Amy Spencer, MD            Spectrum Health</p>
MSU Secchia Center Steelcase Amphitheater	<p><b>Retrospective analysis of incidence of hyperglycemia in adult cancer patients treated with dexamethasone premedication for rituximab /ifosfamide /carboplatin /etoposide (R-ICE) regimen at Spectrum Health Grand Rapids</b></p> <p>Presenter: Vaishali Patel, PharmD            Authors: Vaishali Patel, PharmD; Polly Kintzel, PharmD, BCPS, BCOP.            Spectrum Health</p>
MSU Secchia Center 2nd Floor Room 220	<p><b>MYC mediates Treatment Resistance in Malignant Peripheral Nerve Sheath Tumors (MPNST)</b></p> <p>Presenter: Alexander Lake, DO            Authors: Alexander Lake, DO; Jamie Grit, PhD; Megan Callaghan; Curt Essenburg; Ian Beddows, PhD; Elizabeth Tovar, PhD; Julie Koeman; Rachael Sheridan, PhD; Carrie Graveel, PhD; Matthew Steensma, MD            Helen DeVos Children's Hospital; Van Andel Institute</p>
MSU Secchia Center 7th Floor	<p><b>Incidence, Severity and Outcomes of New Onset Diabetes and Diabetic Ketoacidosis before and during the COVID-19 Pandemic</b></p> <p>Presenter: Emily E. Hill, BS            Authors: Emily E. Hill, BS; Annie Vu, BA; Subah Nanda, BS; Taylor A. Bejma, BS; Bhawana Arora, MD            Michigan State University College of Human Medicine</p>
<b>10:45 a.m. - 10:55 a.m.</b>	
MSU Secchia Center Frey Auditorium	<p><b>Negative Workup? No worries - Laparoscopic Cholecystectomy Can Still Alleviate Symptoms</b></p> <p>Presenter: Jason Aubrey, MD            Authors: Jason Aubrey, MD; Aryana Sharrak, MD; Tien Hua, BS; Susanna Wang, BS; Amy Banks-Venegoni, MD            Spectrum Health; Michigan State University College of Human Medicine</p>
MSU Secchia Center Steelcase Amphitheater	<p><b>Impact of angiotensin II on mortality in septic shock</b></p> <p>Presenter: Lorin Bell, PharmD            Authors: Lorin Bell, PharmD; Matthew Gurka, PharmD, BCCCP, DPLA; Jessica Parker, MS, GStat; Cuyler Huffman, MS            Spectrum Health</p>

Location	Title, Presenter(s), Authors, Affiliations/Institutions
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MSU Secchia Center 2nd Floor Room 220	<b>Total Hip Arthroplasty After Hip Arthroscopy; A Retrospective Review</b> Presenter: Matthew Pate, MD Authors: Matthew Pate, MD; Josh Gira, BS; Carl Wierks, MD Spectrum Health; Michigan State University College of Human Medicine
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MSU Secchia Center 7th Floor	<b>Not So Benign Paroxysmal Positional Vertigo in the Emergency Department</b> Presenter: Antonio Tapia Authors: Antonio Tapia; Victoria Moaddel; David Burkard, MD; Matthew Singh, MD; Thomas Peterson, MD; Yeoshina Pillay, MD; Thomas Sapp, MD; Lisa Ambrose, MS; Bradley Emmerich, MD; Jason Seamon, DO; Jeffrey S. Jones, MD Spectrum Health; Michigan State University College of Human Medicine
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**11:00 a.m. - 11:10 a.m.**

MSU Secchia Center Frey Auditorium	<b>Air on the Side of Caution: A Case of Spontaneous Pneumomediastinum</b> Presenter: Lauren M. Blanck, MD Authors: Lauren M. Blanck, MD; Kathrine A. Kelly, DO Spectrum Health
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MSU Secchia Center Steelcase Amphitheater	<b>Economic Analysis of Pharmaceutical Supply Chain and Operating Room Medication Dynamics</b> Presenter: Kimberly Vo, PharmD Authors: Kimberly Vo, PharmD; Brittany Hoyte, PharmD, BCCCP Spectrum Health
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MSU Secchia Center 2nd Floor Room 220	<b>Autograft Versus Allograft For Posterolateral Corner Reconstructions: A Systematic Review And Meta-analysis</b> Presenter: Kent Kern, MD Authors: Kent Kern, MD; Ryan Sanii, MPH; James Peterson, MD; Travis Menge, MD Spectrum Health; Michigan State University College of Human Medicine
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**11:15 a.m. - 11:25 a.m.**

MSU Secchia Center Frey Auditorium	<b>A Case of Incidental Late Stage Loeffler's Endocarditis in an Asymptomatic Patient</b> Presenter: Sherilyn Munoz, DO Authors: Trisha Gomez, MD; Sherilyn Munoz, DO; Eesha Purohit, MD; Christopher Madison, MD; Laura Franey, MD; David McNamara, MD, MPH Spectrum Health
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MSU Secchia Center Steelcase Amphitheater	<b>Assessment of prophylactic enoxaparin dosing and anti-Xa level monitoring in adult trauma patients</b> Presenter: Tyler Norris, PharmD Authors: Tyler Norris, PharmD; Calvin Ice, PharmD, BCPS, BCCCP; Jessica Parker, MS, GStat Spectrum Health
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MSU Secchia Center 2nd Floor Room 220	<b>Influence of Diabetes Mellitus on Outcomes After Shoulder Arthroplasty</b> Presenter: Jordan Jay, BS Authors: Jordan Jay, BS; Johnny Kasto, MD; Ryan Sanii, MPH; Joshua Castle, MD; Gabriel Burdick, BS; Miriam Dash, BS; Stephanie Muh, MD Henry Ford Health
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Location	Title, Presenter(s), Authors, Affiliations/Institutions
MSU Secchia Center 7th Floor	<p><b>Clinical Outcomes of Megaprosthesis Humeral Reconstruction Implant: A Retrospective Case Series Study</b></p> <p>Presenter: Cassandra Keinath, BS            Authors: Ryan Sanii, MPH; Johnny Kasto, MD; Joshua Castle, MD; Cassandra Keinath, BS; Gabriel Burdick, BS; Jared Mahylis, MD; Michael Mott, MD; Stephanie Muh, MD            Wayne State University School of Medicine</p>
<b>11:30 a.m. - 11:40 a.m.</b>	
MSU Secchia Center Frey Auditorium	<p><b>Novel Use of Intravascular Lithotripsy for Treatment of Calcific Aortic Disease</b></p> <p>Presenter: Jake Nicholson, DO            Authors: Jake Nicholson, DO; Christina Supino, DO; Eanas Yassa, MD            Spectrum Health; Michigan State University College of Human Medicine; Michigan State University</p>
MSU Secchia Center Steelcase Amphitheater	<p><b>Cerebral Fat Embolism in a patient with multiple long bone fractures</b></p> <p>Presenter: Dustin Tran, DO            Authors: Dustin Tran, DO; Austin Fellows, M-3; Andrew Vaughan, DO            Spectrum Health</p>
MSU Secchia Center 2nd Floor Room 220	<p><b>Evaluation of Arterial Catheter Duration and Factors Associated with Failure</b></p> <p>Presenter: Lindsey LeQuia            Authors: Lindsey LeQuia; Nicholas C. Watson, MD; Zachary Harper; Chineze Mbanugo, MD; Chelsea Fisk; Yiqing Dong, MD; Jacob Graffenius; Steffen Pounders; Jessica Parker            Michigan State University College of Human Medicine</p>
MSU Secchia Center 7th Floor	<p><b>The Effect of Preoperative Patient Education Class Discontinuation on Spine Surgical Outcomes</b></p> <p>Presenter: Michael Sahara, BA            Authors: Michael Sahara, BA; Noah Elagamy, BS; Shashank Chitta, MD; Trevor Russo, BS; Dylan Watts, BS; Tyler Madden, MD; Andrew Albert, MD; Scott Russo, MD; Karl Roberts, MD            Michigan State University College of Human Medicine</p>
<b>11:45 a.m. - 11:55 a.m.</b>	
MSU Secchia Center Frey Auditorium	<p><b>Bartonella endocarditis presenting with proliferative glomerulonephritis and ANCA/PR3 antibody positivity</b></p> <p>Presenter: Jacob Baker, MD            Authors: Jacob Baker, MD, PhD; Amal Khalife, MD; Mudita Bhugra, MD; Corewell Health            Spectrum Health</p>
MSU Secchia Center Steelcase Amphitheater	<p><b>Protect the Neck: Devastating Outcomes of Cervical Spine Fractures in the Elderly</b></p> <p>Presenter: Jeremy Mormol, MD            Authors: Jeremy Mormol MD; Laura Krech MPH; Steffen Pounders, BS; Alistair Chapman MD; Matt Lypka MPH; Kailyn Kwong Hing MD            Spectrum Health</p>
MSU Secchia Center 2nd Floor Room 220	<p><b>No Cuff Leak, No Problem: A Case Report of Difficult Extubation Following Massive Transfusion for Postpartum Hemorrhage</b></p> <p>Presenter: Jacob Knowlton            Authors: Jacob Knowlton, B.S.; Timothy Burton, M.D.; Nicholas Watson, M.D., FASA            Spectrum Health; Michigan State University College of Human Medicine; Anesthesia Practice Consultants</p>



Location	Title, Presenter(s), Authors, Affiliations/Institutions
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**12:30 p.m. - 12:40 p.m.**

MSU Secchia Center Frey Auditorium	<p><b>Hospital Free Days in the First Year After Lung Transplantation as a Predictor of Survival</b>            Presenter: Benjamin Kowalske, BS            Authors: Austin Frisch, BS; Cameron K. Lawson, BS; Lindsey LeQuia, BS; Ben Kowalske, BS; Reda E. Girgis, MD            Spectrum Health; Michigan State University College of Human Medicine</p>
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MSU Secchia Center Steelcase Amphitheater	<p><b>Metacarpophalangeal Joint Salvage with Pyrocarbon Hemiarthroplasty Following Gun Shot Wound</b>            Presenter: Arminder Kaura, MD            Authors: Arminder Kaura, MD; Matthew Fahrenkopf, MD            Elite Plastic Surgery</p>
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MSU Secchia Center 2nd Floor Room 220	<p><b>Factors associated with overall survival after thrombectomy for high and intermediate-risk pulmonary embolism</b>            Presenter: Younes Jahangiri            Authors: James Morrison; Younes Jahangiri; Myles Mowery; Aaron Leach; Ryan Musolf; Michael Knox            Spectrum Health</p>
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MSU Secchia Center 7th Floor	<p><b>Difficult airways: The fallacy of vocal cord visualization</b>            Presenter: Jon Giolitti, BS            Authors: Jon Giolitti, BS; Daniel Winter, MD            Michigan State University College of Human Medicine</p>
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**12:45 p.m. - 12:55 p.m.**

MSU Secchia Center Frey Auditorium	<p><b>An unusual case of rash in a patient with history of ITP</b>            Presenter: Sonia Samant, MD            Authors: Sonia Samant, MD; John Parent, MD; Asaf Harris, MD; Ancleto Diaz, MD            Spectrum Health</p>
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MSU Secchia Center Steelcase Amphitheater	<p><b>Breast Cancer Cutaneous Metastasis to Ipsilateral Nipple Reconstruction</b>            Presenter: Matthew Braza, MD            Authors: Matthew Braza, MD; Ronald D. Ford, MD, FACS            Spectrum Health; Michigan State University</p>
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MSU Secchia Center 2nd Floor Room 220	<p><b>Co-registration of Pulmonary Thrombectomy Case Volume with Local COVID-19 Infection Incidence Rates: Analysis of Institutional PERT Registry Data</b>            Presenter: Catherine Kelty, PhD            Authors: Younes Jahangiri; Nabin Manandhar Shrestha; Catherine Kelty; Renzo Loyaga Rendon; James Morrison; Jarrod Macfarlane            Spectrum Health</p>
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MSU Secchia Center 7th Floor	<p><b>Development and validation of the Provider assessed quality of consultations with language interpretation Scale (PQC-LI)</b>            Presenter: Pedro Castellanos            Authors: Pedro Castellanos; Frank Müller, MD; Judith E. Arnetz, PhD, MPH; Harland T. Holman, MD            Spectrum Health; Michigan State University College of Human Medicine</p>
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Location	Title, Presenter(s), Authors, Affiliations/Institutions
<b>1 p.m. - 1:10 p.m.</b>	
MSU Secchia Center Frey Auditorium	<p><b>Herpes simplex virus type 1(HSV-1) viremia and rapid deterioration of an immunosuppressed patient: a case report</b>            Presenter: Alexandra Bagge, MD            Authors: Alexandra Bagge, MD; Mohammad Ahmed, MD            Spectrum Health</p>
MSU Secchia Center Steelcase Amphitheater	<p><b>Recent Updates on the Management of Skin Transplant Donor Sites</b>            Presenter: Justin Markel, MD, PhD            Authors: Justin Markel, MD, PhD; Jacob Franke, MD; Kerry Woodberry, MD, MBA; Matthew Fahrenkopf, MD            Spectrum Health; Helen DeVos Childrens Hospital; Michigan State University College of Human Medicine; Mercy Health, Grand Rapids</p>
MSU Secchia Center 2nd Floor Room 220	<p><b>Peritoneal Mycobacterium Tuberculosis</b>            Presenter: Rebecca Emery, MD            Authors: Rebecca Emery, MD; Andrew Jameson, MD; Brian Petroelje, MD; Gordana Simeunovic, MD            Spectrum Health; Michigan State University College of Human Medicine</p>
MSU Secchia Center 7th Floor	<p><b>The Clinical Outcomes of Cesarean Scar Pregnancies depending on Implantation Type</b>            Presenter: Katherine Huebner, MS            Authors: Katherine Huebner, MS; Kenya Daniels, MS; Joseph Perosky, MD; Mili Thakur, MD; Vivian C. Romero, MD; Marcos Cordoba, MD            Spectrum Health</p>
<b>1:15 p.m. - 1:25 p.m.</b>	
MSU Secchia Center Frey Auditorium	<p><b>Treatment of a Steroid-Resistant anti-PD1 Monoclonal Antibody Induced Liver Injury: A Case Report</b>            Presenter: Jordan Walker, DO            Authors: Jordan Walker, DO; Jason Puckett, MD            Spectrum Health; Michigan State University College of Human Medicine; Michigan State University; Grand Valley State University</p>
MSU Secchia Center Steelcase Amphitheater	<p><b>Palmar Radiocarpal Artery Vascularized Bone Graft for the Use of Scaphoid Non-union and Collapse</b>            Presenter: Mitchell Gauger, MD            Authors: Mitchell Gauger, MD; Stephen Duquette, MD            Spectrum Health; Michigan State University College of Human Medicine</p>
MSU Secchia Center 2nd Floor Room 220	<p><b>Exercise Science Informs Future Directions for Critical Care: An Integrative Review</b>            Presenter: Michael Kaminski, B.Sc            Authors: Michael Kaminski, B.Sc; Nicholas Watson, MD; Kayla Kaminski, BScN            Michigan State University College of Human Medicine</p>
MSU Secchia Center 7th Floor	<p><b>Social Risk Screening in the PICU - a National Point Prevalence Study</b>            Presenter: Annika Lintvedt, BS            Authors: Annika Lintvedt, BS (MS3); Mary Carmichael; Mara Leimanis-Laurens, PhD; Manzi Akande, MD; Erin Paquette, MD, JD, MBe; Katherine Slain, DO            Helen DeVos Childrens Hospital; Michigan State University College of Human Medicine</p>

Location	Title, Presenter(s), Authors, Affiliations/Institutions
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**1:30 p.m. - 1:40 p.m.**

MSU Secchia Center Frey Auditorium	<p><b>Microscopic Polyangiitis Masquerading as Pneumonia</b>            Presenter: Vera Nattler, MD            Authors: Vera Nattler, MD; Amarinder Singh Atal, MD; Jeremy Gentile, DO; Michigan State University-Corewell Health West Internal Medicine Residency, Grand Rapids, MI. Spectrum Health; Michigan State University College of Human Medicine</p>
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MSU Secchia Center Steelcase Amphitheater	<p><b>Cryotherapy-induced full-thickness digital frostbite injury reconstructed with reverse cross-finger flap</b>            Presenter: Joseph Gorvetzian, MD            Authors: Joseph Gorvetzian, MD; Stephen Duquette, MD            Spectrum Health; Michigan State University College of Human Medicine</p>
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MSU Secchia Center 2nd Floor Room 220	<p><b>Evaluation of therapeutic Lovenox dosing in obese critically ill patients</b>            Presenter: Jordan Hollmeyer, PharmD            Authors: Jordan Hollmeyer, PharmD; Alexandra Bednarz, PharmD, BCCCP; Kumaran Ramakrishnan, PharmD, BCCCP; Freddie Hildreth II, MPH            Spectrum Health</p>
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**1:45 p.m. - 1:55 p.m.**

MSU Secchia Center Frey Auditorium	<p><b>An Unusual Manifestation of Unilateral Graves Ophthalmopathy</b>            Presenter: Raymond Sun, MD            Authors: Raymond Sun, MD; Anacleto (Toby) Diaz, MD            Spectrum Health; Michigan State University College of Human Medicine</p>
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MSU Secchia Center Steelcase Amphitheater	<p><b>Neuroimaging sex characteristics in large vessel occlusion ischemic stroke</b>            Presenter: Kostika Mulo, DO            Authors: Kostika Mulo, DO; Malgorzata Miller, MD, PhD            Spectrum Health</p>
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MSU Secchia Center 2nd Floor Room 220	<p><b>Ludicrous Lipids Leading to Perilous Pancreatitis</b>            Presenter: Duncan Stevens, MD            Authors: Duncan Stevens, MD; Anacleto Diaz II, MD            Spectrum Health</p>
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MSU Secchia Center 7th Floor	<p><b>Cracked Ribs and COVID: The effect of COVID-19 on rib fracture patients in Michigan</b>            Presenter: Madi Mangione            Authors: Allie Eickholtz, MD; Jesse Kelley, MD; Madi Mangione; Steffen Pounders; Laura Krech; Ryan Groseclose; Matthew Lypka; Cathryn Chadwick, MD; Charles Gibson, MD; Alistair Chapman, MD            Michigan State University College of Human Medicine</p>
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# Poster Presentations

Poster	Title, Authors, Affiliation/Institution
1	<b>Traumatic Aortic Injury in Adult Patient Without "Trauma Activation"</b> Jason Wanamaker, MD; Sarah Winston Bush, MD; Jeffrey Jones, MD Spectrum Health
2	<b>Diagnosis of Arrhythmogenic Right Ventricular Cardiomyopathy</b> Farjana Alam MD; Todd Chassee MD Spectrum Health
3	<b>Vertebral Artery Dissection Leading to Spinal Cord Infarction</b> Elexus Carroll, MD; Todd Chassee Spectrum Health
4	<b>Inverted Takotsubo Cardiomyopathy from a Weight Loss Supplement</b> Jamie Katuna, MD; Brad Riley, MD; Jeffrey Jones, MD Spectrum Health
5	<b>Spontaneous Cervical Epidural Hematoma Mimicking Acute CVA</b> Mark Brombacher, MD; Zack Vanderlaan, MD; Christian Kolacki, MD; Jeffrey Jones, MD Spectrum Health
6	<b>Trampoline Injury Resulting in Rare Cerebrovascular Accident</b> Emma Dixon; Mary Gipson, MD; Jeffrey Jones, MD Michigan State University College of Human Medicine
7	<b>Meningitis and Complete Heart Block In Patient With Acute Disseminated Lyme Disease</b> Ryan B. Pitney, MD; Todd Chassee, MD; Jeffrey S. Jones, MD Spectrum Health
8	<b>Use of Point-of-Care Ultrasound to Evaluate for Ruptured Ovarian Cyst in Pregnant Patients</b> Disha Bhargava, MS; Matthew Flannigan, DO; Paige Pieczarka, MS Spectrum Health; Michigan State University College of Human Medicine
9	<b>Use of Point-of-Care Echocardiography for Early Detection of Takotsubo Syndrome</b> Katie Wilk, MS; Rebecca Loney, MD; Nathan Panzlau, DO; Paige Pieczarka, MS; Clarice Callahan, MS Spectrum Health; Michigan State University College of Human Medicine
10	<b>Impact of an Emergency Department Quality Improvement Initiative to Promote Safe Discharge of Low-Risk Chest Pain Patients</b> Meredith Busman; Mitchell Van Overloop; Jacob Davenport; Stephanie Mullennix; Catie Guarnaccia; Christopher Port; Trevor Cummings; Diellza Marku; Stephanie Flohr; Terry Saunders Spectrum Health
11	<b>A Case of Cardiogenic Shock that Highlights both the Importance and Limitations of Point-of-Care Transthoracic Echocardiography in the Emergency Department</b> Jordan Johnson, MD; Daniel Romine, MD; Matthew Flannigan, DO; Joshua Reynolds, MD Spectrum Health; Emergency Care Specialists (Advanced Emergency Ultrasound Fellowship)

Poster	Title, Authors, Affiliation/Institution
12	<b>Use of Point-of-Care Ultrasound to Evaluate for Acute Peripheral Arterial Thrombus</b> Kyle Doughty, DO; Matthew Flannigan, DO Spectrum Health; Michigan State University College of Human Medicine; Emergency Care Specialists/Emergency Ultrasound Fellowship
13	<b>Colon cancer screening rates and predictive factors between Urban and Rural clinics within the Spectrum Health system</b> Isaac VanDam, MD; Colton Wolfe-Sabo, MD Spectrum Health; Michigan State University College of Human Medicine
14	<b>Translation and Validation of PHQ-9 and GAD-7 in Kinyarwanda</b> Megan Kube; Alexis Hansen; Eric Achtyes, MD, MS; Harland Holman, MD; Frank Müller, MD Michigan State University College of Human Medicine
15	<b>Are primary care providers willing to address climate change issues in shared decision-making?</b> Frank Müller, MD, PhD; Jesse I Skok, MD; Judy Arnetz, PhD; Michael J Bouthillier, PharmD; Harland T Holman, MD Spectrum Health; Michigan State University; Ferris State University; University Medical Center Gottingen
16	<b>Impact of Limited English Proficiency on Antidepressants in Diabetic Patients: an NHANES study</b> Harland Holman MD; Frank Müller MD PhD; Nikita Bhangu; Jepkoech Kottutt; Omayma Alshaarawy PhD Michigan State University College of Human Medicine
17	<b>Robotic cricopharyngeal myotomy: the better approach for treating cricopharyngeal hypertrophy</b> Jesse Kelley, MD; Austin VanWyk, BS; Giuseppe Zambito, MD; Luke Sanford, FA; Amy Banks, MD Michigan State University College of Human Medicine
18	<b>Watch and Wait: Could This be an Effective Management Option for Esophageal Cancer?</b> John Ochieng; Jesse K. Kelley, MD; Allison Hoppe, MD; Sydney Rechner; Katie Jaje; Hordur Kolbeisson, MD; Mura Assifi, MD; G. Paul Wright, MD; Mathew Chung, MD Michigan State University College of Human Medicine
19	<b>Crowdsourcing to Predict Positive Margins on Intraoperative Radiograph in Breast Cancer Patients Undergoing Breast Conservative Surgery: More Than What Meets the Eye</b> Rima Patel; Jesse K. Kelley, MD; Gloria McGurn; Lindsey Kiiskila, MD; Mathew Chung, MD; G. Paul Wright, MD Michigan State University College of Human Medicine
20	<b>Review of Operative Film: A Tool for Surgical Resident Success?</b> Adam Lobbetal, PhD; Jesse Kelley, MD; Katie Jaje; Amanda Schoonover; Giuseppe Zambito, MD; David Scheeres, MD; Amy Banks-Venegoni, MD Michigan State University College of Human Medicine
21	<b>A Case of Bilothorax after Duodenal Exploration</b> Allison Hoppe, MD; Kathrine Kelly, DO; Jill Onesti, MD Spectrum Health; Michigan State University College of Human Medicine
22	<b>Rare case of large bowel obstruction due to diverticulitis in the setting of chronic ulcerative colitis?</b> Susanna Wang, MS; Tien Hua, BS; Aryana Sharrak, MD; Jason Aubrey, MD; Joel Green, MD Spectrum Health; Michigan State University College of Human Medicine



Poster	Title, Authors, Affiliation/Institution
23	<p><b>Management of a Large Liver Abscess</b>  Tien Hua, BS; Susanna Wang, MS; Aryana Sharrak, MD; Jason Aubrey, MD; Gregory Fritz, MD; Anna Levine, MD; Jaret Beane, DO  Michigan State University College of Human Medicine</p>
24	<p><b>Simultaneous Coronary Artery Bypass Grafting and Adrenalectomy for Pheochromocytoma: A Case Report</b>  Jailyn Hicks, B.S.; G. Paul Wright, MD, FACS  Michigan State University College of Human Medicine</p>
25	<p><b>Total parenteral nutrition and tinctures: a case report on the ethics of utilizing healthcare resources alongside homeopathic remedies in terminal cancer</b>  Hannah Phelan, MD; Kate Kelly, DO; Jill Onesti, MD  Spectrum Health</p>
26	<p><b>A Case of Intercostal Hernia Associated with COVID-19</b>  Sarah Plachinski, MD; Allie Eickholtz, MD; Geoffrey Lam, MD  Spectrum Health</p>
27	<p><b>The Itch You Shouldn't Scratch: A Case of Acute Appendicitis in a Patient With Aggressive Systemic Mastocytosis</b>  Lauren M. Blanck, MD; Elizabeth Steensma, MD; Kathrine A. Kelly, DO  Michigan State University</p>
28	<p><b>An atypical presentation of chronic myeloid leukemia</b>  Michael Foster, MD  Spectrum Health</p>
29	<p><b>Real-world use of Dalbavancin in US Tertiary Referral Center</b>  Aaron Chang, MS; Mudita Bhugra, MD; James Polega, MD; Jorgelina De Sanctis, MD; Derek Vanderhost, PharmD; Habiba Hassouna, MD  Spectrum Health</p>
30	<p><b>A Cryptic case of Cryptococcus in an Immunocompetent Patient</b>  Paul Yousif, MD Anacleto Diaz, MD  Spectrum Health; Michigan State University College of Human Medicine</p>
31	<p><b>A Descriptive, Retrospective Analysis of COVID-19 Antibody Therapy and its Effects on Mortality and Morbidity in Patients Receiving B-cell Depleting Therapies</b>  Sonia Gentile MD, PhD; Liam Sullivan, DO; Heather Brooks, BSN, RN, CCRC; Gordana Simeunovic, MD  Spectrum Health; Helen DeVos Childrens Hospital; Michigan State University College of Human Medicine; Michigan State University</p>
32	<p><b>A case of both ANCA-associated Vasculitis and Drug-Induced Lupus Nephritis caused by Hydralazine.</b>  Naomi Cret, MD; Sonia Gentile, MD; Shahid Mohammed, MD  Spectrum Health</p>
33	<p><b>A life-threatening case of TLS and the diagnostic difficulty of T-ALL</b>  Sarah Cerda, MD; Jordan Walker, DO; Jeremy Gentile, DO  Spectrum Health; Michigan State University College of Human Medicine</p>

Poster	Title, Authors, Affiliation/Institution
34	<b>A case of fatal cytokine release syndrome after tebentafusp</b> Connor McCalmon, MD; Tyler Kemnic, DO; Stephen Doyle, DO Spectrum Health
35	<b>Ring Enhancing Lesions: A case of cerebral abscesses with no clear risk or source</b> Lauren Offerle, MD; Maria Samaniego, MD; Tia Chakraborty, MD Spectrum Health; Michigan State University
36	<b>Extensive but Reversible changes on MRI in setting of spontaneous Hyperammonemia</b> Beenish Javaid, MD ; Michelle D Dejesus Brazitis, MD Spectrum Health
37	<b>Spinal Cerebellar Ataxia Type 8 Masquerading as Multiple Sclerosis</b> Darla Wheeler, MD; Mariam Bezih, B.S.; Nicholas Lannen, MD Spectrum Health; Helen DeVos Childrens Hospital; Michigan State University College of Human Medicine
38	<b>Neonatal morbidity associated with route of delivery for twin B</b> Robin Piper, DO; Lindsay Snyder, MD Spectrum Health; Helen DeVos Childrens Hospital; Michigan State University College of Human Medicine
39	<b>Impact of Formalized Curriculum on ObGyn Resident FLS scores</b> Anne Barron, MD; Ashley-Ann Storms, MD Spectrum Health; Michigan State University College of Human Medicine
40	<b>Evaluation of IUD expulsion rates after immediate post-placental placement: A retrospective study</b> Michele Bautista, MD, MPH Spectrum Health
41	<b>Cesarean section rate among women with one abnormal value on the three-hour glucose tolerance test</b> Alexa Armstrong, DO., Michael Tsimis, MD Spectrum Health
42	<b>The association between intra-amniotic sludge on the risk of preterm labor in patients with cervical cerclage with twin pregnancies</b> Amanda Mercedes Yee, MD; Vivian Romero, MD, Kavita Narang, MD Spectrum Health; Michigan State University College of Human Medicine
43	<b>Accessory Cavitated Uterine Mass: A case report and literature review</b> Abigail Christmas, BS; Michael Strug, DO, PhD.; Amanda Schoonover, MPH; Vivian C. Romero, MD; Marcos Cordoba, MD; Mili Thakur, MD Michigan State University College of Human Medicine
44	<b>A Trio of Quads</b> Lindsay Finn, MD; Michael Tsimis, MD Spectrum Health
45	<b>Comparison of obstetric and neonatal outcomes in expectantly managed pregnancies complicated by second trimester premature rupture of membranes (PPROM)</b> Kimberly Foxworthy; Kavita Narang, MD; Vivian C. Romero, MD; Marcos Cordoba, MD Michigan State University College of Human Medicine

Poster	Title, Authors, Affiliation/Institution
46	<p><b>Efficacy of Neoadjuvant Chemotherapy and Radiation in Resectable/Borderline Resectable Pancreatic Adenocarcinoma</b></p> <p>Jesse K. Kelley, MD; Hordur Kolbeinsson, MD; Benjamin Eastburg BBA; Austin Frisch BS; Jessica Parker, MS; Sreenivasa Chandana, MD PhD; G. Paul Wright, MD, MS; Mura Assifi, MD; Mathew Chung, MD Spectrum Health; Michigan State University College of Human Medicine; Cancer &amp; Hematology Centers of Western Michigan</p>
47	<p><b>Assessing Utilization Renal Mass Biopsy in the Management of T1a vs. T1b Renal Masses</b></p> <p>Dennis N. Boynton, BS; Sabrina L. Noyes, BS; Mahin Mirza, MPH; Brian Seifman, MD; Ed Schervish, MD; Mohit Butaney, MD; Ji Qi, MS; Craig Rogers, MD; Brian R. Lane, MD, PhD Spectrum Health; Michigan State University College of Human Medicine</p>
48	<p><b>INBONE Total Ankle System: Clinical and Radiographic Outcomes</b></p> <p>Parin Kothari BS; Drew Albert MD, MBA; Alexander Phillips BS; Ramsey Potter BS; Michelle A. Padley MS; John Anderson MD, Donald Bohay MD, FACS; John Maskill MD Spectrum Health; Michigan State University College of Human Medicine; Orthopaedic Associates of Michigan</p>
49	<p><b>A Retrospective Analysis of Hip Fracture After Hip Area Corticosteroid Injection</b></p> <p>Sarah Kim; Taylor Struble; Ryan S. Groseclose; Laura Krech, MPH; Steffen Pounders, BS; Jacob Boersma, MD; Matthew Lypka, MPH; Jacob Reisner DO Michigan State University College of Human Medicine</p>
50	<p><b>Differences in Range of Motion of Quadriceps Tendon Autograft With and Without Bone Block in Anterior Cruciate Ligament Reconstructions</b></p> <p>Joshua Gira; Siddhartha Dandamudi; Travis Menge MD Michigan State University College of Human Medicine</p>
51	<p><b>Endovascular Treatment of Acute Obstructive Shock Associated with Inferior Vena Cava Filter Thrombosis</b></p> <p>Olivia Everin, Younes Jahangiri MD, William Slater MD Spectrum Health; Michigan State University College of Human Medicine</p>
52	<p><b>A case of intramedullary tuberculosis induced paraplegia: a diagnostic dilemma in a patient with autoimmune history</b></p> <p>Talha Ghazi, MD; Todd Mulderink, MD Spectrum Health</p>
53	<p><b>Case Report: Pituitary Stalk Interruption Syndrome</b></p> <p>Adam Holmes, MD; Ashok Srinivasan, MD Spectrum Health; University of Michigan</p>
54	<p><b>An Ethical Perspective of Aggressive Treatment in a Patient with Rapidly Accelerating Metastatic Disease</b></p> <p>Alex Sanford, DO; Toby Diaz, MD Spectrum Health; Michigan State University</p>
55	<p><b>Neonatal Epidural Analgesia: A Quality Improvement Project</b></p> <p>Timothy Hudson, DO; Jodi Garvin, DO; Nicholas Watson, MD; Claudia Nadernejad, MD; Daniel Watkins, MD; Nathan Lewis, MA Ed; Beth Huizinga CNS, MSN; Tracy James, BSN; Ann Shupe, MSN, RN; Nisreen Parniske, RN Spectrum Health; Helen DeVos Childrens Hospital; Michigan State University College of Human Medicine; Michigan State University; Anesthesia Practice Consultants</p>

Poster	Title, Authors, Affiliation/Institution
56	<b>Possible Serotonin Syndrome vs Neuroleptic Malignant Syndrome vs Local Anesthetic Systemic Toxicity: A Case Report</b> Valery Rozen, MS3; Bernie Barden, MS4; Andrew Vaughan DO
57	<b>Necrotizing MRSA Pneumonia Superimposed on Influenza A</b> Tyler Kemnic, DO; Surya Chennupati, DO; Jacob Scott, MD; Malik Khan, MD Spectrum Health; Michigan State University College of Human Medicine
58	<b>Atrial Transseptal Coil Embolization of a Pulmonary Venous Aneurysm In a 38-Year-Old Male With Hemoptysis</b> Sydney Cooper, DO; Myles Mowery, DO, MBA; Michael Brunner, MD, FHRS; Jarrod MacFarlane, DO Spectrum Health; Michigan State University College of Human Medicine; Advanced Radiology Services
59	<b>Perioperative considerations for pregnant patients with ICDs</b> Hannah Brown; Matthew Tiacharoen, MBS; Kim Nguyen, MD Spectrum Health; Michigan State University College of Human Medicine; Anesthesia Practice Consultants
60	<b>Proper treatment and management of post-cardiotomy refractory vasospasm</b> Caleb Weissman, BS; Stephane Leung Wai Sang, MD, MSc Spectrum Health; Michigan State University College of Human Medicine
61	<b>Dire Straits: Helium-Oxygen Gas Mixture as an Adjunct to Airway Management</b> Kurt Frick, BS; Christian Bolton, MD; Nicholas Watson, MD Spectrum Health; Anesthesia Practice Consultants
62	<b>A Novel Approach to the Treatment of an Internal Iliac Artery Aneurysm Type IB Endoleak</b> Clarice Callahan, BS; Michael Knox, MD; Jason Slaikeu, MD Spectrum Health; Michigan State University College of Human Medicine
63	<b>Evaluation of Diagnostic Utility of Karius Testing</b> Rebecca Miller, BS; Christina Druskovich BS; James Polega, MD; Joshua Donkin, MD; Jose Morillas, MD; Habiba Hassouna, MD. Michigan State University College of Human Medicine
64	<b>Reduction of premature ventricular contractions in a teenage primagravid mother following spinal anesthesia</b> Travis TenBrock; Lindsey LeQuia; Sanjay Dandamudi, MD; Kathryn Wladischkin, MD. Spectrum Health; Michigan State University College of Human Medicine; Anesthesia Practice Consultants
65	<b>Case Report: Unusual Presentation of Pheochromocytoma</b> Sachin Gangele, MD; Connor McCalmon, MD; Caleb Syzmanski, BS; David Calderhead, MD Spectrum Health
66	<b>Development of a Statistical Analysis Software for Determining Effectiveness of a Comprehensive Fall Risk Management Protocol</b> Pavitra Attanayake, BS; Jonathon Reither, MD Spectrum Health; Michigan State University College of Human Medicine
67	<b>Emergence of Mature T-cells in Congenital Athymia: Where Did They Come From?</b> Justin Tran; Jennifer Stumph, MD; Melissa Bombery, MD; Cong Liu, PhD; Salah Ebrahim, MD; Nicholas Hartog, MD Spectrum Health; Michigan State University College of Human Medicine

Poster	Title, Authors, Affiliation/Institution
68	<p><b>Improving Emergency Response Preparedness in a Pediatric Residency Clinic Utilizing Simulation Based Pediatric Mock Codes</b></p> <p>Joshua Green, M.D.; Heather Blickenstaff, M.D.; Natalia Perecki, M.D.; Adam Sawyer M.D.; Heather Blockland, BSN, RN; Niky Rushche BSN, RN; Kyee Zomerlei, BSN, RN Spectrum Health; Helen DeVos Childrens Hospital; Michigan State University College of Human Medicine</p>
69	<p><b>Being More AWARE</b></p> <p>Kayla Acre, DO.; Cheryl Mukosiku, MD; Sammy Dia, MD.; Elijah Huang, MD; Kira Sieplinga, MD Spectrum Health; Helen DeVos Childrens Hospital; Michigan State University</p>
70	<p><b>Barrier to Continuous Glucose Monitor (CGM) Access in Pediatric Patients</b></p> <p>Hansika Narayanan, MD Helen DeVos Childrens Hospital</p>
71	<p><b>MIAAP Lead ECHO - Optimizing Lead Screening in the Outpatient General Pediatrics Setting</b></p> <p>Danielle Larsen, MD; Austin Voydanoff, MD; Miranda Hillard, MD; Phillip Paras, MD; Elizabeth Parker, MD; Jill Golden, MD; Karmyn Polakowski Helen DeVos Childrens Hospital</p>
72	<p><b>Investigating physician communication through the lens of patient experience surveys</b></p> <p>Malcom Davis, BS; David Calafiore, MD; Jared Doezema, MD; Stephen Trombley, MD; Cameron McKenney, DO; Eric Kort, MD; Kira Sieplinga, MD Spectrum Health; Helen DeVos Childrens Hospital; Michigan State University College of Human Medicine</p>
73	<p><b>Implementation of Delirium Screening in Pediatric Patients: A Pilot Quality Initiative</b></p> <p>Heather Gladfelter, MD; Nicholas Beam, MD; Lauren Jary; Caryn Steenland, RN; Kellie Joyce, RN; Adam Nicholson, MD; Jeri Kessenich, MD; Taylor Bejma, Ashleigh Nurski, RN; Jamie Dykstra, RN; and Brett Leingang, MD Spectrum Health; Helen DeVos Childrens Hospital</p>
74	<p><b>Evaluation of Congenital Diaphragmatic Hernia Guidelines</b></p> <p>Mary Klueh, MPH; Kayla Smith, MD; Claudia Nadernejad, MD; Emily Thompkins Durkin, MD; Jamie Frost, MD; Vivian Romero, MD; Kayla Smith, MD; Daniel Watkins, MD; Matthew Lypka, MPH; Sean McAnally, OSP analyst; Nisreen Parniske, MSN, RN; Svetoslav Saev, MS; Ann Shupe, MSN; Jared Tucker, PhD Helen DeVos Childrens Hospital; Saint James School of Medicine</p>
75	<p><b>Candy Crushes Medication Costs</b></p> <p>Zachary P Tolstyka, MD, PhD; Lee Morris, MD; Elizabeth Seifferly, MA, CCLS; Amy Davis, BA, CCLS; Leah Noawrocki, MS, CCLS; Adam Finkbeiner, PharmD; Allison Long, MD Spectrum Health; Helen DeVos Childrens Hospital; Michigan State University College of Human Medicine; Michigan State University</p>
76	<p><b>Sensitivity of VTE Risk Assessment Tool for the Pediatric MIS-C/COVID Population</b></p> <p>Konstandina Stavropoulos; Sierra Silverwood; Siddhartha Dandamudi; John W Winters, MD; Chi Braunreiter, MD Michigan State University College of Human Medicine</p>
77	<p><b>Infectious Diagnoses and Antibiotic Concordance Compared Between White and Non-White Populations Within Three Michigan Health Systems</b></p> <p>Jacqueline McDonnell, PharmD/MBA Candidate 2023; Benjamin Pontefract, PharmD, BCPS; Minji Sohn, PhD; Michael Klepser, PharmD, FCCP, FIDP Ferris State University</p>

Poster	Title, Authors, Affiliation/Institution
78	<p><b>Are women of childbearing age receiving effective contraception when prescribed potentially teratogenic medications?</b>  Michael J Bouthillier, PharmD; Sasha Gardner  Ferris State University</p>
79	<p><b>Timing of Alveolar Bone Graft and Barriers to Care</b>  Elizabeth E. Bushong, BA; Darin Patmon, BA; Cuyler Huffman, Anna Carlson, MD; John Girotto, MD, FAAP, FACS  Spectrum Health; Michigan State University College of Human Medicine</p>
80	<p><b>Initial experiences with direct to operating room for decompressive craniotomy/craniectomy in patients with traumatic brain injury</b>  Jesse Kelley, MD; Katie Jaje; Chase Smitterberg; Charles Reed; Ryan Groseclose; Laura Krech; Steffen Ponders; Alistair Chapman, MD; Amanda Yang, MD  Michigan State University College of Human Medicine</p>
81	<p><b>The Travelling Bullet: Projectile Embolization to the Right Ventricle</b>  Douglas Snow, MPH MD; Sara Wilcox, MD; Mariam Khan, MD; Aamir Patel, MD; MD Kailyn Kwong Hing MD  Spectrum Health; Michigan State University</p>

# E-Poster Presentations

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## Title, Authors, Affiliation/Institution

### **Impact of a Dedicated Orthopedic Trauma Room on Elective Arthroplasty Volume**

Austin Smith, BA; Rishi Chatterji, MD; Benjamin Diedring, DO; Rajan Sharma, DO; Adam Fahs, MD; David Knesek, DO; Alan Klein, MD; Benjamin Best, DO

Michigan State University College of Human Medicine, Department of Surgery, Section of Orthopedic Surgery, Ascension Macomb-Oakland Hospital Ascension Providence Hospital/Michigan State University College of Human Medicine, Southfield, MI

### **Scleroderma after COVID 19 Infection and Vaccination**

Henry Zou, BS; Akash Rau, BS; Steven Daveluy, MD, FAAD

Michigan State University College of Human Medicine, Wayne State University School of Medicine

### **Rotator Cuff Repair with Bioinductive Allograft Patch Achieves Equivalent Patient-Reported Outcomes at 2 Years Postoperatively**

Joshua Castle, MD; Johnny Kasto, MD; Jordan Jay, MD; Jager Haan, BS; Salvatore Serra, BS; Joseph Vyskocil, BS; Jonathan Lutchka, BS; Tervor Wolterink, BS; Ryan Sanii, MPH; Stephanie Muh, MD

Wayne State

### **Cemented vs Cementless Reverse Total Shoulder Arthroplasty for Proximal Humerus Fractures: A Multi-Center Retrospective Cohort Study**

Ryan Sanii, MPH; Johnny Kasto, MD; Thomas Throckmorton, MD; Tyler Brolin, MD; H. Mike Kim, MD; Curtis Noel, MD; Michael J. O'Brien, MD; Felix H. Savoie, MD; J Michael Wiater, MD; Thomas Wright, MD; Stephanie Muh, MD

Henry Ford Health

### **Medical Students' Perspective on Pregnant or Parenting Colleagues**

Samuel Wilcox, Abigail Christmas, Victoria Bright, Jean Kerver PhD

Michigan State University College of Human Medicine; Michigan State University Department of Epidemiology and Biostatistics

### **Difficult Airway Secondary to Squamous Cell Carcinoma of the Tongue**

Elena Lafata, Sarah Kim, Zach Harper, Benjamin Stam, MD

Michigan State University College of Human Medicine; Anesthesia Practice Consultants

### **Unexplained Delayed Emergence from General Anesthesia**

John A. Pardington Jr, Michael Kaminski, Nicholas C. Watson, MD, FASA

Michigan State University College of Human Medicine, Anesthesia Practice Consultants

### **A Retrospective Review of Catheter-Directed Management of Pulmonary Embolism in Pediatric, Adolescent and Young Adult populations at Spectrum Health and Helen DeVos Children's Hospital**

Michael T Knox, MS; Michael F Knox, MD; Chi Braunreiter, MD; Erin VanDyke, PA-C

Spectrum Health, Michigan State University



## Title, Authors, Affiliation/Institution

### **The Effect of Obesity on Arthritic Changes Following First Tarsometatarsal Joint Fusion as Treatment for Forefoot Deformity**

Nicole Ambrosio, OMS; Ethan Poland, OMS; Alejandro Leon; Matthew Gibbs, DO; Sean Beyer, DO; Samuel Perry, DO; Isaac Majors, MD; Marshall Boose, DO; John G. Anderson, MD; Donald R Bohay, MD, FACS; John D. Maskill, MD; Michelle A. Padley, PhD; Lindsey A. Behrend, BS  
Michigan Sate University College of Osteopathic Medicine; University of Michigan Health-West; Orthopaedic Associates of Michigan

### **Incidence of Injury and Disposition from Hospital of Pediatric Femoral Fractures Over the Past 10 years**

Dandamudi Siddhartha BS; Peace, Andrew MD; Ozdemir, Sevil, MS; Ostrander, James MD; Atkinson, Theresa PhD  
McLaren Flint; Kettering University; Michigan State University College of Human Medicine

### **Are Missed Enoxaparin Doses Associated with Increased VTE Rates in Polytrauma Patients?**

Spradling, J., Garfinkel, S., Edgecomb, T., Pounders, S., Krech, L., Groseclose, R., Stowe, A., Parker, J., Alistair,  
Spectrum Health; Michigan State University College of Human Medicine

### **Parental Attitudes Towards the COVID 19 Vaccine and its Impacts on Well Child Visit Attendance**

Lara Hakim, Kristin M. Knickerbocker, Ece Erder  
Michigan State University College of Human Medicine

### **Pulmonary Artery Catheterization in Persistent Left Superior Vena Cava A Case Study**

Ken Dada, BS; Joe Mariscal, BS; Nicholas C. Watson, MD FASA  
Michigan State University College of Human Medicine, Anesthesia Practice Consultants

### **Self Paced Exercises: A Novel Approach to Reduce In hospital Complications**

Jonathan C. Thompson, MS  
Michigan State University College of Human Medicine

### **Understanding gaps in diabetic eye care in a primary care setting**

Indhu Rammohan, MS  
Spectrum Health, Michigan State University College of Human Medicine

# Thank You and Congratulations!

Thank you to the judges, moderators, event staff and planning committee. We know all the time and hard work that goes into ensuring this event is successful. Research Day could not be done without you!

Congratulations to all the presenters – we learned so much from you! Winners will be announced soon and notified via email. We look forward to seeing you next year.

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