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The complete program including abstracts is available on the  
Western Michigan University Homer Stryker M.D. School of Medicine website:  
<http://med.wmich.edu/node/287>

### CME CREDIT

**The CME Activity Code is available at the check-in table or on the TV screens on campus.**

In support of improving patient care, Western Michigan University Homer Stryker M.D. School of Medicine is jointly accredited by the Accreditation Council for Continuing Medical Education (ACCME), the Accreditation Council for Pharmacy Education (ACPE), and the American Nurses Credentialing Center (ANCC), to provide continuing education for the healthcare team. Credit amount subject to change.

#### **IPCE Credit**

This activity was planned by and for the healthcare team, and learners will receive 5.0 Interprofessional Continuing Education (IPCE) credits for learning and change.

#### **ACCME**

Western Michigan University Homer Stryker M.D. School of Medicine designates this live activity for a maximum of 5.0 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

### DISCLOSURES

Please see the handout offered at the registration table for a listing of disclosure statements from today's presenters.

## INTRODUCTION

### *RESEARCH, EDUCATION AND SCHOLARSHIP*

The commitment and participation of Western Michigan University Homer Stryker M.D. School of Medicine (WMed), its faculty, and the Kalamazoo scientific community in “Research Day” continues on this day marking a 37<sup>th</sup> anniversary milestone. One-hundred fifty-five abstracts were received and reviewed by a panel of 26 judges. One-hundred twenty-five have been accepted for either oral or poster presentation.

Such success is due, of course to a large number of talented and dedicated people. We wish to acknowledge the participation of a group of faculty and thank them for volunteering their time and expertise to review the submissions. A panel of over 26 judges participated in the reviews. Each abstract was assigned based upon area of expertise. The judges’ evaluations were critical in determining the oral presentations and poster presentations for this year’s event.

In addition, it is my privilege to have worked with this year’s Research Day organizing committee. This committee worked diligently over an extended period of time to endeavor to bring you an exceptional learning and networking opportunity. Members of this year’s committee were:

Conner Holthaus  
Emma Swayze  
Jessica Sassic  
Krishna Jain  
Liz Lorbeer  
Mariam Ischander  
Nichol Holodick  
Steve Crooks

Courtney Puffer  
Erik Larson  
John Spitsbergen  
Laura Bauler  
Maria Demma Cabral  
Maureen Owens  
Shanna Cole

Dale Vandre  
Greg Vanden Heuvel  
John Winterholler  
Leah Bader  
Maria Sheakley  
Melinda Abernethy  
Shivum Patel

We hope this year’s Research Day will inspire you to pursue your own research and to, as well, support the basic, medical and healthcare research of our Southwestern Michigan Community colleagues.



Gregory Vanden Heuvel, PhD  
Chair 2019 Research Day

We'd like to thank the following WMed professionals who dedicated their time to participate as abstract scoring judges and/or session moderators for today's event.

Melinda Abernethy, MD	Mariam Ischander, MD	
Robert Baker, MD	Krishna Jain, MD	Jessica Sassic, M2
Laura Bauler, PhD	Richard Lammers, MD	Robert Sawyer, MD
Karen Bovid, MD	Erik Larson, PhD	Maria Sheakley, PhD
Maria Demma Cabral, MD	Mark Loehrke, MD	Neelkamal Soares, MD
Shanna Cole, PharmD	Liz Lorbeer, EdM	John Spitsbergen, PhD
Steven Crooks, PhD	Josh Mastenbrook, MD	Emma Swayze, M2
Bonny Dickinson, PhD	Tracey Mersfelder, PharmD	Greg Vanden Heuvel, PhD
Theo Gomes, MD	David Overton, MD	Kristi VanDerKolk, MD
Lisa Graves, MD	Maureen Owens	Dale Vandre, PhD
Nichol Holodick, PhD	Shivum Patel, M2	John Winterholler, M3
Conner Holthaus, M3	Courtney Puffer, MA	

# WMED UPJOHN CAMPUS FLOOR PLANS

**WMed Upjohn First Floor**



**WMed Upjohn Second Floor**

**TBL Hall #1**

Oral Presentation Session A & D

**TBL Hall #2**

Oral Presentation Session B & E

**Classroom #111**

Oral Presentation Session C & F

**HALLWAYS (First and Second Floor)**

Poster Displays

**LOBBY (Front and Back)**

Check-in

Vendor Tables

**AUDITORIUM**

Keynote Speaker

**CATERING KITCHEN**

Appetizers (4/16/19)

Breakfast (4/17/19)

## **SCHEDULE**

Tuesday, April 16<sup>th</sup>, 2019  
5:00 p.m. – 8:00 p.m.  
WMed Upjohn Campus  
300 Portage Street  
Kalamazoo, MI 49007

**4:30 – 5:00pm**

### **Check-in**

**Refreshments available**

**Poster Presenters – please arrive early  
to find your poster**

**1<sup>st</sup> Floor Lobby  
(Front and Back Door)**

**5:00 – 8:00pm**

### **Poster Presentation Session**

**Clinical Research Posters**

**Medical Education, Basic Science &  
Community and Population Health  
Research Posters**

**1<sup>st</sup> Floor Lobby/Hallways**

**2<sup>nd</sup> Floor Lobby/Hallways**

# SCHEDULE

Wednesday, April 17<sup>th</sup>, 2019  
8:00 a.m. – 12:00 p.m.  
WMed Upjohn Campus  
300 Portage Street  
Kalamazoo, MI 49007

<b>8:00 – 8:30am</b>	<b>Check-in</b> Refreshments available	<b>1<sup>st</sup> Floor Lobby</b> (Front and Back Door)
<b>8:30 – 9:30am</b>	<b>Oral Presentation Session 1</b> Session A Session B Session C	TBL Hall #1 TBL Hall #2 Classroom #111
<b>9:30 – 9:45am</b>	<b>Break</b>	
<b>9:45 – 10:45am</b>	<b>Oral Presentation Session 2</b> Session D Session E Session F	TBL Hall #1 TBL Hall #2 Classroom #111
<b>10:45 – 11:00am</b>	<b>Break</b>	
<b>11:00 – 12:00pm</b>	<b>Keynote Speaker</b>	<b>Auditorium</b>
<b>12:00pm</b>	<b>Farewell</b>	<b>Auditorium</b>

## KEYNOTE SPEAKER

### The Dr. Robert P. Carter Research Lecture

*This is the eleventh year of this annual lecture supported by the Board of Western Michigan University Homer Stryker M.D. School of Medicine to celebrate the Research Day activities and to recognize Dr. Carter's commitment and support of research.*



### James DuBois, PhD, ScD

Steven J Bander Professor of Medical Ethics and Professionalism, Professor of Psychology, Professor of Medicine, Director of the Center for Clinical and Research Ethics at Washington University School of Medicine

Presents:

**Doing good research: Learning from the mistakes and successes of others**

James DuBois is the Steven J. Bander Professor of Medical Ethics and Professionalism, Professor of Psychology and Professor of Medicine as well as the Director of the [Center for Clinical and Research Ethics](#) at Washington University School of Medicine in the Division of General Medical Sciences. He is an Adjunct Professor in the Albert Gnaegi Center for Health Care Ethics at Saint Louis University, where he was the inaugural Hubert Mäder Professor of Health Care Ethics and Director of the Bander Center for Medical Business Ethics. DuBois completed his PhD in philosophy at the International Academy of Philosophy in Liechtenstein and his DSc in psychology at the University of Vienna in Austria, where he focused on cross-cultural moral psychology. He directs the NIH-funded [Professionalism and Integrity Program \(PI Program\)](#), which offers personalized assessments, a group workshop, and post-workshop coaching calls to help researchers operate professionally in today's complex environments. He is the founding Editor (with Ana Iltis) of *Narrative Inquiry in Bioethics: A Journal of Qualitative Research*, published by Johns Hopkins University Press. He is a Board Certified Coach (BCC) specialized in career coaching for researchers.

DuBois directs the Professional and Social Issues Lab within the Department of Medicine, which conducts social science research aimed at understanding barriers and facilitators to research integrity and professionalism.

# **Oral Presentation Sessions**



**ORAL PRESENTATIONS****8:30 a.m. – 9:30 a.m.****SESSION A****TBL HALL #1**

- Moderator:** Theo Gomes, DO; Medicine-Pediatrics
- 8:30-8:42 am **Effect of Long-term Exercise on GDNF Expression and Innervation in Rat Skeletal Muscle.** Alberto Cintron-Colon, BS; John Spitsbergen, PhD
- 8:42-8:54 am **Recovery of Olfactory Sensory Neurons After Damage Involves Changes in Proliferation Patterns.** Mamoon Ali, BS; Christine Byrd-Jacobs, PhD
- 8:54-9:06 am **The Potential Mutagenic Influence of Structural Element Variants Within the PKD1 Gene.** John Dewey, BS; Aaron Zebolsky, MS; Emma Swayze, MS; Erik Larson, PhD
- 9:06-9:18 am **Biophysical Analysis of Mutagenic DNA Structures in the Human PKD1 Gene.** Aaron Zebolsky, MS; Emma Swayze, MS; John Dewey, BS; Gloria Alvarado, PhD; Erik Larson, PhD
- 9:18-9:30 am **Loss of  $\beta$ -arrestin2 in D2 Cells Alters Neuronal Excitability and Behavioral Responses to Drugs of Abuse.** Kirsten Porter-Stransky, PhD; Alyssa Petko, BS; Saumya Karne; Cameron Liles, BS; Nikhil Urs, PhD; Marc Caron, PhD; Carlos Paladini, PhD; David Weinschenker, PhD

**SESSION B****TBL HALL #2**

- Moderator:** Mark Loehrke, MD; Internal Medicine
- 8:30-8:42 am **Pediatric Residents' Perceptions of Neonatal Abstinence Syndrome Training: An experimental study of Simulation versus Video.** Marisha Agana, MD; Duncan Vos, MS; Daniel Foley, BA; Mark Williams, BA; Hans Baumgartner, BS; Neelkamal Soares, MD
- 8:42-8:54 am **Orthopaedic Resident Opioid Prescribing Practices.** Christine Bowman, MD; Matthew Jaykel, MD; Joseph Weistroffer, MD
- 8:54-9:06 am **2017-2018 Acetyl Fentanyl Trends in South West Michigan: Is there a Larger Pattern?** Tong Li, BS; Jalynn Zou, BS; Erinn Ton, BS; Christine Stevens, BS; Elizabeth Douglas, MD; Prentiss Jones, PhD
- 9:06-9:18 am **Trends and 30-Day Readmission Rate for Patients Discharged with Congestive Heart Failure: Analysis of 2,352,612 Admissions.** Anandbir Bath, MD; Jasreen Kaur, MD; Vishal Gupta, MD
- 9:18-9:30 am **Barriers to Obtaining a Full Set of Vital Signs in the Emergency Department.** Kelly Halt, DO; Samantha Mix, MD; Thomas Olsen, DO; David King, MD; Fahad Khan, DO; Clay Mishler, MD; Paige Neaterour, MD; Jon Parker, DO; Brenton Kinker, MD; Elise Klesick, DO; Brendan Hayes, MD; Eric Hume, DO; Duncan Vos, MS; Daniel Foley, BA; Heather Rauch; Anita Bell; Rashmi Kothari, MD; Richard Lammers, MD

**ORAL PRESENTATIONS****8:30 a.m. – 9:30 a.m.****SESSION C****CLASSROOM #111****Moderator:** Bonny Dickinson, PhD; Biomedical Sciences

8:30-8:42 am **The Words We Use: Identifying the Preferred Lexicon for Predictors of Physician Burnout.** Karen Horneffer-Ginter, PhD; Jeffrey Greene, PhD; Roger Apple, PhD; Lisa Graves, MD; Kristine Gibson, MD; Julia Tullio, BS; Adrienne Kaufman, MS

8:42-8:54 am **Longitudinal Effects of Introducing Mindfulness in Medicine for the Clinical Years of Medical School.** Christopher Stancic, BS; Rebecca Sigourney, BS; Mark Schauer, MD; Laura Bauler, PhD; Ellen Drosdick, BS; Robert Cai, BS

8:54-9:06 am **The Effect of an Interprofessional Stroke Simulation of Enhancing Medical and Allied Health Students' Knowledge of Professional Roles in Practice.** Gisella Newbery, MS; Diane Peirce, MD; Debra Lindstrom, PhD; Richard Lammers, MD; Cheryl Dickson, MD

9:06-9:18 am **Perceptions of Residents' Autonomy in the Operating Room.** Graham McLaren, MD; Zaki Rahaman, MD; Saad Shebrain, MD; Gitonga Munene, MD

9:18-9:30 am **Resident Knowledge and Residency Program Practices Regarding Pregnancy Testing and Prenatal Care Referrals within the Kalamazoo, MI Medical Community.** Arika Wieneke, BA; Walker Thompson, MS; David Wallington, MS; Cheryl Dickson, MD; Mark Schauer, MD

## ORAL PRESENTATIONS

9:45 a.m. – 10:45 a.m.

### SESSION D

TBL HALL #1

- Moderator:** Lisa Graves, MD; Faculty Affairs & Family and Community Medicine
- 9:45-9:57 am **Patient and Provider Factors that Increase Disclosure of Psychosocial Problems.** Julia Tullio, BS; Jacob Lautze, BS; Deb Lenz, MA; Grace Lubwama, DPPD, MPH; Catherine Kothari, PhD
- 9:57-10:09 am **Mothers' Reported Knowledge of, Practices, and Barriers to Engaging in Infant Safe Sleep.** Amy Damashek, PhD; Cheryl Dickson, MD; Deb Lenz, MA; Grace Lubwama, DPPD, MPH; Catherine Kothari, PhD
- 10:09-10:21 am **An Analysis of Early Childhood Developmental Program Accessibility and Parental Desires: A Survey of Kalamazoo Northside Parents.** Kelsy Schultz, BA; Jeanne Oord, BA; Rachel Tomassi, BS; Shanika Lucas, BAS; Trina Jones, BA; Grace Lubwama, DPPD, MPH; Catherine Kothari, PhD
- 10:21-10:33 am **Assessing the Prevalence of Food Insecurity in a Walk-In HIV Testing/Services Center in Southwest Michigan.** Kailin Kuo, BA; Kevin Cates, MD; Ola Jandali, BS; Mariyam Sheidu, BS; Melissa Olken, MD, PhD
- 10:33-10:45 am **Patient-Provider Communication in the Kalamazoo Mom's Health Experiences Survey Study.** Rebekah Sharp, MD; Melinda Abernethy, MD, MPH; Alysa Hernandez, BS; Terra Bautista, BA; Grace Lubwama, DPPD, MPH; Catherine Kothari, PhD

### SESSION E

TBL HALL #2

- Moderator:** Roua Azmeh, MD; Pediatric & Adolescent Medicine
- 9:45-9:57 am **Predictors of and Mortality from Resistant Infections in ICU Patients.** Laura Stearns, DO; Robert Sawyer, MD
- 9:57-10:09 am **Is a Shorter Duration of Antibiotic Therapy Paradoxically Associated with More Resistant Secondary Infections in Randomized, Controlled Trials?** Cole Kircher, DO; Robert Sawyer, MD
- 10:09-10:21 am **Fecal Microbiota Transplantation for Recurrent Clostridioides Difficile Infections.** Micah Rimpel; Dean Van Loo, PharmD
- 10:21-10:33 am **Pyomyositis in the United States – Trends and Associations from the Healthcare Utilization Project Nationwide Inpatient Sample Database.** Rheanne Maravelas, MD; Duncan Vos, MS; Neiberg Lima, MD; Sapna Sadarangani, MD; Thomas Melgar, MD
- 10:33-10:45 am **Brief Interventions with Patients with Cystic Fibrosis (CF) and Caregivers Who Score Symptomatically on the PHQ-9 and GAD-7.** Sheryl Lozowski-Sullivan, PhD; Andrea Caskey, LMSW; Niecia Anjorin, LMSW; Teresa Bailey, PharmD; Mireya Diaz, PhD; Laura Bauler, PhD; Sally Bonnema MS; Myrtha Gregoire-Bottex, MD

**ORAL PRESENTATIONS****9:45 a.m. – 10:45 a.m.****SESSION F****CLASSROOM #111**

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<b>Moderator:</b>	David Overton, MD; Resident Affairs & Emergency Medicine
9:45-9:57 am	<b>Analysis of B Cell Progenitors in Sickle Cell Disease.</b> Jesse Chou, BA; Nichol Holodick, PhD
9:57-10:09 am	<b>MicroRNA-200c Promotes Bone Regeneration by Targeting Sox2-Mediated Wnt Signaling and KLF4.</b> Adil Akkouch, PhD; Steven Eliason, MS; Mason Sweat, MS; Miguel Romero-Bustillos, DDS; Min Zhu, PhD; Fang Qian, PhD; Brad Amendt, PhD; Liu Hong, MD, PhD
10:09-10:21 am	<b>Regeneration of Soft Tissues is Promoted by MMP1 Treatment After Digit Amputation in Mice.</b> Haiying Pan, BS; Yong Li, MD, PhD
10:21-10:33 am	<b>Determinants of FAIM Transcriptional Regulation.</b> Mekala Neelakantan, BS; Phillip Key, BS; Tom Rothstein, MD, PhD; Hiroaki Kaku, PhD
10:33am-10:45am	<b>FAIM Expression from Stress in Mice Spleens.</b> Phillip Key, BS; Mekala Neelakantan, BS; Tom Rothstein, MD, PhD; Hiroaki Kaku, PhD

## **NOTES:**

## **NOTES:**

## **NOTES:**

# Poster Presentations



## POSTER PRESENTATIONS

### BASIC SCIENCE RESEARCH POSTERS

1. **Microglial Proliferation Patterns Following Damage to the Olfactory Bulb in Adult Zebrafish.** Susanna Var, BS; Christine Byrd-Jacobs, PhD
2. **MMP1 Gene Transfer Enhances Myoblast Migration and Engraftment in mdx/SCID Mice.** Haiying Pan, BS; Kinga Vojnits, PhD; Thomas Liu, MD; Fanwei Meng, PhD; Lei Yang, PhD; Yigang Wang, MD PhD; Johnny Huard, PhD; Charles Cox, MD; Yong Li, MD PhD
3. **MicroRNA-200c Attenuates Periodontitis by Modulating Proinflammatory and Osteoclastogenic Mediators.** Adil Akkouch, PhD; Min Zhu, PhD; Miguel Romero-Bustillos, DDS; Steven Eliason, MS; Fang Qian, PhD; Aliasger Salem, PhD; Brad Amendt, PhD; Liu Hong, MD PhD
4. **Characterization and Biocompatibility of a Novel Bioink of Collagen and Hydroxyapatite.** Adil Akkouch, PhD; Robert Swenson, DDS MS; Amber Bates, PhD; Emily Lanzel, DDS MS; Kathy Walters, PhD; Liu Hong, MD PhD; Kim Brogden, PhD
5. **Attenuated Astrogliosis in the Olfactory Bulb of Adult Zebrafish After Repeated Peripheral Damage.** Jackson Scheib, BS; Christine Byrd-Jacobs, PhD
6. **The Injury Induced Population of Muscle-Derived Stem Cell-Like Cells.** Kinga Vojnits, PhD; Haiying Pan, BS; XD Mu, PhD; Yong Li, MD PhD
7. **The Homeodomain Protein Cux1 is Regulated by the Notch Signaling Pathway in the Developing Kidney.** Conner Holthaus, BS; Emmanuel Kumar, BS; Carol Carlton, BS; Greg Vanden Heuvel, PhD
8. **Reprogramming Myoblasts into Potent Stem Cells Through Injury Muscle Tissue Extracts.** Kinga Vojnits, PhD; Haiying Pan, BS; Xiaojing Dai, PhD; Fanwei Meng, PhD; Yong Li, MD PhD

### COMMUNITY & PUBLIC HEALTH RESEARCH POSTERS

9. **Point-of-Care Ultrasound in the Amazon Jungle: A Case Series.** Anita Shallal, MD; Michael Reaume, MD; Zachary Rich, MD; Thomas Melgar, MD
10. **Differential Survival: Do Racial and Socioeconomic Disparities Persist Beyond “Poor Birth Outcomes”?** Angela Barreto, MD; Samuel Lai, MS; Jennifer Kim, BS; Jennifer Balun, BS; Duncan Vos, MS; Terra Bautista, MA; Deb Lenz, MA; Lisa Graves, MD; Catherine Kothari, PhD
11. **Neighborhood Social-Determinants-of-Health Risk and Access to Pediatric Care.** Jacob Baxter, BS; Cheryl Dickson, MD MPH; Colleen MacCallum, MS; Bandhan Dutta Ayon, MS; Kathleen Baker, PhD; Brent Yelton, BA; Catherine Kothari, PhD
12. **The EPIC Procedure for Pilonidal Disease-Endoscopic-Assisted Pilonidal Irrigation and Cleaning.** Jacob Baxter, BS; Jairo Espinosa, MD; Michael Leinwand, MD (Clinical Research Poster)
13. **Unusual Presentation of Concomitant Appendicitis and Meckel’s Diverticulitis from Meckel’s Neuroendocrine Tumor.** Jacob Baxter, BS; Jairo Espinosa, MD; Sarah Larson, MD (Clinical Research Poster)
14. **Trends in Opioid-Related Deaths in Kalamazoo County, Michigan.** Maria Magidenko; Prentiss Jones, PhD; Abigail Grande, MPH; Theodore Brown, MD

15. **The Influence of Homelessness on Goal Setting Among Participants of Kalamazoo's Fatherhood Case Management Program.** Patrick McCreesh, MS; Brent Yelton, BA; Derek Miller, BA; Terra Bautista, MSW; Debra Lenz, MA; Catherine Kothari, PhD
16. **A Quality Improvement Initiative to Remodel Medication Refill Processes in a Pediatric Cystic Fibrosis Clinic.** Teresa Bailey, PharmD; Laura Bauler, PhD; Alyssa Woodwyk, MS CAPM; Mireya Diaz, PhD; Myrtha Gregoire-Bottex, MD
17. **Addition of Pharmacist in a Pediatric Cystic Fibrosis Clinic.** Teresa Bailey, PharmD; Laura Bauler, PhD; Alyssa Woodwyk, MS CAPM; Mireya Diaz, PhD; Myrtha Gregoire-Bottex, MD
18. **Generation of a Socioeconomic Status Classifier from Kalamazoo County Postpartum Survey Responses.** Alyssa Woodwyk, MS CAPM; Mireya Diaz, PhD; Catherine Kothari, PhD
19. **A Stitch in Time Saves Nine: Untreated Perinatal Depression Hurts Future Generations.** Ruqiya Tareen, MD; Rajiv Tandon, MD

## MEDICAL EDUCATION RESEARCH POSTERS

20. **Malignant Vasovagal Syncope Presenting with Seizure-Like Activity.** Justin Di Donato, MD; Josh Knudson, MD; Laura Marsh, DO; Mohiman Saffar, MD; Kristi VanDerKolk, MD; Lauren Vocke, DO
21. **A Palpable Pulsatile Radial Arterial Line Insertion Simulator.** Carleigh Zahn, DO; Thomas Melgar, MD; Aniruddha Paranjpe, MD
22. **Clinical Clues to Creutzfeldt-Jakob Disease.** Jay Patel, MD; Kevin Kunzer, MD
23. **Levothyroxine Associated Suicidal Overdose.** Lisa Gustafson, BS; Prentiss Jones, PhD; Joseph Prahlow, MD
24. **Prosocial Behavior of Medical Students: An Experiment Using the Trust Game.** Parker Crutchfield, PhD; Richard Brandt, BS; Rebecca Funk, BS; Tyler Gibb, PhD; Ryan Khalil, BS; Devin Schindler, JD; Duncan Vos, MS
25. **Creating a Point of Care Ultrasound Course for Medical Residents: A Model for Curriculum Development.** Zachary Rich, MD; Anita Shallal, MD; Jayne Barr, MD; Thomas Melgar, MD

## CLINICAL RESEARCH POSTERS

26. **Caregiver Awareness of Genetic Testing for Autism Spectrum Disorder.** Aaron Zebolsky, MS; Duncan Vos, MS; Neelkamal Soares, MD
27. **Patient Misunderstanding of Findings Leads to Suicide.** Jack Stover, BA; Joseph Prahlow, MD
28. **Concurrent Osteochondroma and Synovial Chondromatosis of the Hip in the Absence of Multiple Hereditary Exostosis: A Case Report.** Guston Zervoudakis, MD; Tyler Snoap, MD; Jason Roberts, MD
29. **Saccular Aneurysm Rupture with Simultaneous, Non-Contributory Heroin Use.** Gordon Liu, BA; Theodore Brown, MD

30. **Coronary Artery Dissection Associated with Ascending Aortic Dissection.** Joshua Rarick, MS; Lucas Rich, BS; Joseph Prahlow, MD
31. **Maternal Death by Fire and Fetal Carboxyhemoglobin Level.** Nicole Lee, MS; Theodore Brown, MD
32. **The Immune Function of a Patient with ITCH E3 Ubiquitin Ligase Deficiency.** Alexander Paschke, BA; Shivum Patel, BA; Adil Khan, BS; Ahmed El-Isa, MD; Patrick Jones, MD; Myrtha Gregoire-Bottex, MD; Roua Azmeh, MD
33. **A Curious Case of Conversion Disorder.** Grace Walter, BA; Ruqiya Tareen, MD
34. **A Pilot Without a Plane: A Case of Pseudologia Fantastica.** Darren Almagro, DO; Ruqiya Tareen, MD
35. **Lateral Proximal Physal Tethering as an Alternative to Epiphysiodesis Used with Hemiplateau Elevation Osteotomy to Treat Infantile Blount Disease.** Marine Bolliet, BS; Karen Bovid, MD; Laura Bauler, PhD
36. **Retroperitoneal Schwannoma Complications in a 36-Year-Old Male.** Samuel Lai, MS; Jairo Espinosa, MD; Gitonga Munene, MD
37. **Radiation Induced Angiosarcoma of the Breast in a 74-Year-Old Female.** Samuel Lai, MS; Jairo Espinosa, MD; Gitonga Munene, MD
38. **Acute Colonic Pseudo-Obstruction (Ogilvie Syndrome) Leading to Respiratory Compromise and Death.** John Dewey, BS; Joseph Prahlow, MD
39. **Trends and 30-Day Readmission Rate for Patients Discharged with Diabetes Mellitus with Complication: Analysis of 1,457,583 Admissions.** Jasreen Kaur, MD; Anandbir Bath, MD; Prashant Patel, DO
40. **Drugs that Make Your Skin React – Case of Steven-Johnson Syndrome Associated with Adalimumab Therapy.** Jasreen Kaur, MD; Vishal Deepak, MD; Anandbir Bath, MD; Prashant Patel, DO
41. **Who Ordered the Antiplatelet Therapy?: Analysis of ED Provider Use and Antiplatelet Therapy in the Setting of CVA and TIA.** Philip Pazderka, MD; Michael Williams, MD; John Hoyle, MD; John Aguilar, MD; Ryan Bade, DO; Sean Barkan, MD; Mark Cooper, DO; Benjamin Cramer, MD; Daniel Dietemann, DO; Jason Garner, DO; Jonas Adams, DO; Jordan Bleth, MD; Jessica Zhen, MD
42. **Forgotten but Not Gone: Hyperthyroidism in a Patient with Prior Total Thyroidectomy.** Seth Moffatt, BS; Laura Bauler, PhD; Mark Schauer, MD
43. **A Surprising Case of Adult Intussusception in a Patient with Prior Ileocolic Anastomosis.** Laura Stearns, DO; Joshua Hekmatjah, MS; Michael Chen, MD
44. **Challenges in the Diagnosis of Gallbladder Volvulus.** Vishal Somnay, BS; Joseph Walbridge, BS; Zakiur Rahaman, MD; Saad Shebrain, MD
45. **Spontaneous Retroperitoneal Bleed in an Elderly Patient on Apixaban.** Adil Khan, BS; Joshua Mastenbrook, MD; Laura Bauler, PhD
46. **A Comparative Analysis of Anterior Cruciate Ligament Reconstruction Rehabilitation Protocols in Southwest Michigan.** Donghoon Lee, BS; Tong Li, BS; Keith Kenter, MD
47. **Accidental Hanging: A Case of Autoerotic Asphyxiation Determined After Additional Information from Family.** Jalynn Zou, BS; Theodore Brown, MD; Laura Bauler, PhD
48. **Case Report: A Congenital Neuroblastoma Patient with Brain Metastases.** Minh Nguyen, DO; Carla Schwalm, MD; Nicholas George, MD

49. **Mind-Body Practices Delivered in a Cancer Infusion Suite to Reduce Symptoms and Improve Well-Being: A Practice-Based Study.** Ellen Drosdick, MS; Tina Walter, BA; Harini Pallerla, MS; Sian Cotton, PhD
50. **Spontaneous Peritonitis and Escalating Therapy from Bacterial to Fungal: A Case Report and Review of the Literature.** Eric Sieloff, MD; Richard Roach, MD
51. **Persistent Heart Failure Following Melphalan and Fludarabine Conditioning.** Gisella Newbery, BA; Neiberg de Alcantara Lima, MD; Livia Andrade Gurgel, MD; Ross Driscoll, MD; Carol C V Lima, MD
52. **A Unique Case of Osteomyelitis Caused by Gardnerella Vaginalis and Streptococcus Parasanguinis in a Post-Menopausal Woman.** Jin-Ju Kim, BS; Ricardo de Castro, MD; Mark Schauer, MD; Laura Bauler, PhD
53. **Death Related to Epiglottitis.** Joseph Prahlow, MD; Ernest Morton, MS
54. **Morel-Lavallée Lesion: A Closed De-Gloving Injury.** Karthik Ramaseshan, BS; Laura Bauler, PhD; Joshua Mastenbrook, MD
55. **Sunitinib-Induced Pneumatosis Intestinalis in a Patient with Multiple Malignancies.** Mridul Parmar, MD; Michael Reaume, MD; Mark Schauer, MD
56. **Acute Calcific Longus Colli Tendonitis: A Mimicker of Meningitis.** Mridul Parmar, MD; Richard Roach, MD
57. **Quality Improvement in CF Clinic: Patient Downtime and Clinic Workflow.** Carolina Herrera, RN; Myrtha Gregoire-Bottex, MD; Teresa Bailey, PharmD; Sally Bonnema, RD; Rachel Jackson, RN; Nichole Vess, RN; Debra Wells-Schmidt, RN; Julie Hovey, MA; Sheryl Lozowski-Sullivan, PhD; Andrea Caskey, LMSW; Niecia Anjorin, LMSW; Mariam Ischander, MD; Jayne Barr, MD
58. **Arrhythmogenic Right Ventricular Cardiomyopathy in a Young Athlete.** Lucas Rich, BS; Joshua Rarick, MS; Joseph Prahlow, MD
59. **An Intervention Designed to Increase Post-Partum Visit Attendance Rates as a Federally Qualified Health Center.** Mehmiya Raghid, MD; Megan Potilechio, DO; Dalal Kassir, MD; Lauren Vocke, DO; Angela Barreto, MD; Lauren Piper, DO; Jennifer Moubay; Alyssa Woodwyk, MS CAPM
60. **Central Sleep Apnea Thought to be a Results of Strangulation as a Presenting Symptom of MuSK Positive Myasthenia Gravis.** Mehmiya Raghid, MD; Megan Potilechio, DO; Dalal Kassir, MD; Glenn Dregansky, DO
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