



33rd Annual Research Day

Kalamazoo Community Medical Health and Sciences

Wednesday, May 13, 2015

8 a.m to 3:30 p.m.

The Fetzer Center
Western Michigan University
Kalamazoo, Michigan

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The complete program including abstracts is available on the Western Michigan University Homer Stryker M.D. School of Medicine website www.med.wmich.edu/research/research-day.

CME CREDIT

The evaluation of this activity will be done electronically through the WMed CME website:

<http://med.wmich.edu/education/continuing-medical-education>

Click on 'Evaluation Forms' from the left menu.

The CME Activity Code is 25251.

After completion of the form, print or save a copy for your files.

Western Michigan University Homer Stryker M.D. School of Medicine is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

Western Michigan University Homer Stryker M.D. School of Medicine designates this live activity for a maximum of five (5) AMA PRA Category 1 Credits. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Western Michigan University Homer Stryker M.D. School of Medicine is accredited by the Accreditation Council for Continuing Medical Education (ACCME). The Michigan Board of Nursing accepts continuing education credits from the ACCME.

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

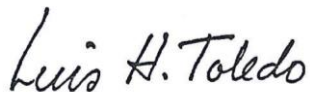
On this 33rd anniversary of Research Day, our institutions commemorate their commitment to maintaining the highest quality research and scholarship. Under the leadership and sponsorship of Western Michigan University Homer Stryker M.D. School of Medicine (WMed), we gather today to celebrate the extraordinary work being presented by faculty, residents, and students.

The commitment and participation of WMed faculty and the Kalamazoo scientific community continues with strong support. This year we had an overall submission of 129 abstracts of which 105 were accepted for inclusion in today's program. We appreciate the dedication and hard work of our academic participants.

Each research project was carefully reviewed by a panel of judges. Awards will be presented today to the best research studies in each of six categories as well as the top-scoring posters to celebrate the excellence of research, education, and scholarship.

The continuous support and collaborative efforts of Dale Vandré, PhD and Craig Beam, PhD are appreciated. Many insights pertaining to the organization and development of Research Day were incorporated as part of their recommendations during the planning of this event.

On behalf of WMed, Western Michigan University, and Kalamazoo College, the Kalamazoo Community Medical and Health Sciences Research Committee welcomes you. We hope you enjoy this rewarding day.

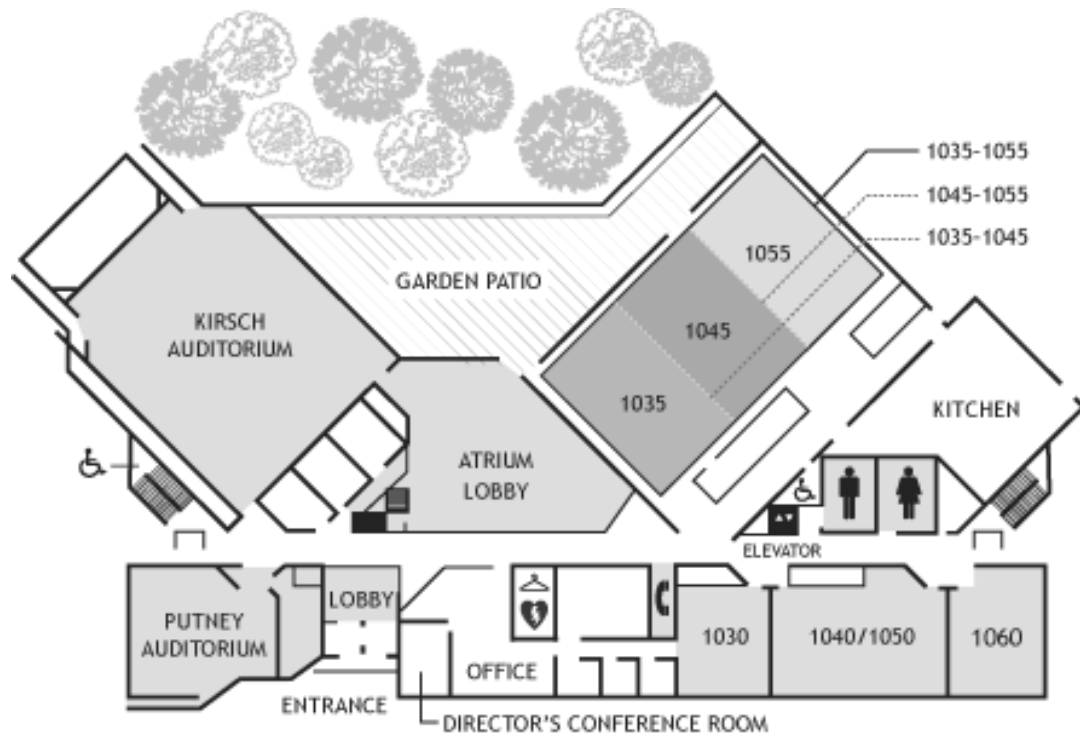


Luis H. Toledo, MD, PhD
Co-Chair, 2015 Kalamazoo Community Medical and Health Sciences Research Day

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

Robert Baker, MD	Donald Greydanus, MD	Vinay Reddy, MD
Susan Bannon, MD	John Hoyle, MD	Richard Roach, MD
Karen Bovid, MD	Mark Loehrke, MD	Ruqiya Tareen, MD
Joseph Chess, MD	Larry Lutwick, MD	Greg Vanden Heuvel, PhD
Martin Draznin, MD	Earl Norman, MD	Alan Wilke, MD
	David Overton, MD	

Fetzer Center Floor Plans



SCHEDULE

7:30 - 8:00 am	Registration Refreshments available in Rooms 1035/1045/1055	
8:00 - 9:35 am	Oral Presentation Session 1 Session 1A Session 1B Session 1C Session 1D	Putney Lecture Hall Rooms 1040/1050 Rooms 2016/2018 Room 2020
9:35 - 10:45 am	Poster Presentations Vendor Display Tables	Rooms 1035/1045/1055
10:45 - 11:40 am	Oral Presentation Session 2 Session 2A Session 2B Session 2C Session 2D	Putney Lecture Hall Rooms 1040/1050 Rooms 2016/2018 Room 2020
11:40 - 11:55 am	Break	
11:55 - 1:30 pm	Lunch / Keynote Speaker 2015 Dr. Robert P. Carter Research Lecture “The Cancer Epigenome” <i>Peter A. Jones, PhD, DSc</i> <i>Research Director and Chief Scientific Officer</i> <i>Van Andel Research Institute</i>	Kirsch Auditorium
1:35 - 4:00 pm	Oral Presentation Session 3 Presentation of awards to top-scoring abstracts from six topic areas As introduced by Hal B. Jenson, MD, MBA Founding Dean Western Michigan University Homer Stryker M.D. School of Medicine	Kirsch Auditorium
4:00 - 4:15 pm	Farewell and Thank-you	Kirsch Auditorium

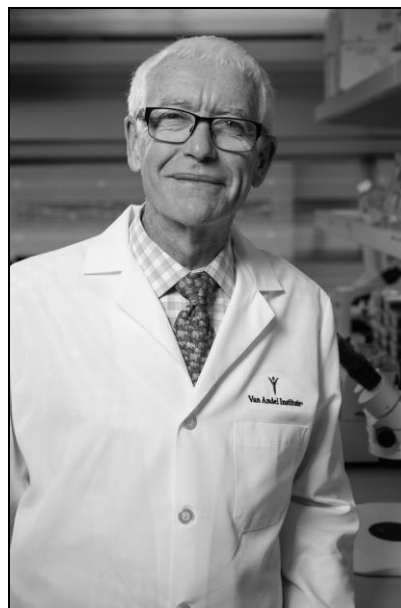
KEYNOTE SPEAKER**The Dr. Robert P. Carter
Research Lecture**

This is the seventh 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.

Peter A. Jones, PhD, DSc

Research Director & Chief Scientific Officer
Van Andel Research Institute

presents

“The Cancer Epigenome”

Peter A. Jones, PhD, DSc, is Research Director and Chief Scientific Officer of the Van Andel Research Institute. He also serves as a distinguished professor and as head of the Laboratory for Cancer Epigenomics.

Born, raised and educated in the former Rhodesia (now Zimbabwe), Jones received his doctorate in biochemistry from the University of London in 1973. He joined the University of Southern California in 1977, where he attained the rank of professor in 1985 and became director of the cancer center in 1993.

Jones' research concerns how cancer-related genes become heritably silenced during carcinogenesis, resulting in functional inactivation. The primary focus of his research is on DNA cytosine methylation and how this process interacts with chromatin structure to ensure heritable silencing. He is also interested in translating basic scientific discoveries into clinical treatments, specifically for people with bladder cancer. He and his colleagues are working on drugs that can reverse silencing and turn genes back on again, and designing strategies where this kind of epigenetic therapy can be applied to the treatment of human cancers.

A past president of the AACR and deputy editor of *Cancer Research*, Jones is the author of more than 250 journal publications and book chapters and serves on several national and international committees, panels and editorial boards. He has received a variety of honors, including the University of Southern California Associates Award for Creativity in Research and Scholarship and the Outstanding Investigator Grant from the National Cancer Institute. Recently, Jones, along with his colleague Stephen B. Baylin, M.D., deputy director of The Sidney Kimmel Comprehensive Cancer Center at Johns Hopkins, received the Kirk A. Landon-AACR Prize for Basic and Translational Cancer Research.

ORAL PRESENTATIONS

SESSION 1 A - Community Research, Family Medicine	Putney Lecture Hall
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Moderator: Alan Wilke, MD – Family and Community Medicine

- 8:00 – 8:15 **Accidents with Biological Material Among Hospital Housekeepers in Brazil.** Priscilla S. F. Ream, Anaclara F. V. Tipple, Thais A. Salgado, Adenicia C. S. Souza, Sandra M. B. Souza, Helio Galdino-Junior, Sergiane B. Alves
- 8:20 – 8:35 **Different Pathways to Postpartum Depression: Early-Onset versus Late-Onset Depression.** Catherine L. Kothari, Amy B. Curtis, R. Shama Tareen, Michael Liepman
- 8:40 – 8:55 **Mental Health Needs Loom Large for Victims of Partner Violence.** Pamela J. Wadsworth, Catherine Kothari, Jaclin Peterson, Grace Lubwama, Jennifer Frank Brenton
- 9:00 – 9:15 **WHO's Perinatal Periods of Risk Analysis: Mapping Kalamazoo's Infant Mortality Disparities to Community Action.** Catherine L. Kothari, Yasi Back, Deb Lenz, Lucinda Stinson, Nicholas Andreadis, Cheryl Dickson, Grace Lubwama, Jen Brenton
- 9:20 – 9:35 **A Case of Niacin Deficiency in an Alcoholic.** Hugh Wong, Imran Shafqat

SESSION 1 B - Pediatrics	Room 1040/1050
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Moderator: Donald Greydanus, MD – Pediatric and Adolescent Medicine

- 8:00 – 8:15 **Head Drop Episodes in a Toddler: A Case Report on Tuberos Sclerosis with Polycystic Kidney Disease.** Sonia Joychan, Emily Cordes, Alissa Welsh, Eric Bryant, Aaron Lane-Davies
- 8:20 – 8:35 **Positive Troponin in the Absence of Myocardial Injury in a Pediatric Patient: A Case Report.** Devika Malhotra, Emil Ebner, James L. Loker
- 8:40 – 8:55 **Persistently Patent Ductus Arteriosus: What Happens After NICU Discharge?** Matthew T. Siuba, Stephen L. McGinnis, Robin Fountain-Dommer, Andrea M. Scheurer-Monaghan
- 9:00 – 9:15 **Incidental Finding of an Arachnoid Cyst Status Post Mild Traumatic Brain Injury.** Thomas Pott, Silpa Nadella, Eric Bryant, Michelle Halley
- 9:20 – 9:35 **Non-Axial Osteomyelitis: A Rare Manifestation of Cat-Scratch Disease.** Sonia Joychan, Yamini Kuchipudi, Deepak Garg

SESSION 1 C - Orthopaedic Surgery**Room 2016/2018****Moderator: Joseph Chess, MD – Orthopaedic Surgery**

- 8:00 – 8:15 **Effect of Real-Time Feedback on Screw Placement into Synthetic Cancellous Bone.** Peter A. Gustafson, Andrew G. Geeslin, David M. Prior, Joseph L. Chess
- 8:20 – 8:35 **Arthroscopic Treatment of Subjective Hip Instability in Patients with Cam Deformity and Non-operatively Treated Posterior Wall Fracture and Dislocation.** Nicholas Miladore, Andrew G. Geeslin, Thomas G. Ryan
- 8:40 – 8:55 **The Influence of Screw Placement in Subtalar Joint Arthrodesis.** Saif Alrafeek, James R. Jastifer, Peter Howard, Peter A. Gustafson
- 9:00 – 9:15 **Surgical Treatment of Degenerative Scoliosis.** Nicholas Miladore, Tyler Snoap, Joshua Ellwitz
- 9:20 – 9:35 **A Systematic Review of the Surgical Treatment and Outcomes of Posterolateral Corner Knee Injuries: Part I, Acute Injuries and Part II, Chronic Injuries.** Andrew G. Geeslin, Samuel G. Moulton, , Robert F. LaPrade

SESSION 1 D - General Surgery**Room 2020****Moderator: Earl Norman, MD – General Surgery**

- 8:00 – 8:15 **Factors Associated with Hospital Readmission After Common Surgical Procedures?** Saad A. Shebrain, Brian C. Hill, Leandra H. Burke, Shivani Shah, Ethan J. Maltz
- 8:20 – 8:35 **Single Incision Laparoscopic Gastrostomy Button Placement: A Simple, Effective, and Inexpensive Technique.** Michael J. Leinwand, Kelsey S. Berndt
- 8:40 – 8:55 **A Case of False Gaseous Gangrene and Near Amputation: A Cautionary Tale.** Lauren Kwasny, Varinder S. Sidhu, Lisa A. Miller
- 9:00 – 9:15 **Obturator Bypass in Management of Infected Aortobifemoral Graft.** Julia J. Ng, Mark Rummel
- 9:20 – 9:35 **Nonunion Tibial Fracture Fixation with Intermedullary Nailing.** Christian W. Ertl, Kyle Harris, Brian Cheung.

SESSION 2 A - Emergency Medicine, Internal Medicine	Putney Lecture Hall
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Moderator: David Overton, MD – Emergency Medicine

- 10:45 – 11:00 **A Comparison of On-Scene Times for Out-of-Hospital Pediatric Cardiac Arrest Patients in a Statewide EMS Information System.** Emily M. Kraft, Emily Jonas, Kevin K. Putman, William D. Fales
- 11:05 – 11:20 **Primary Clear Cell Lung Cancer with Epidermal Growth Factor Receptor (EGFR) Mutation: The First Reported Case.** Devin Malik, Akshay Amaraneni, Sreenivsa Chandana
- 11:25 – 11:40 **Necrotizing Sarcoid Granulomatosis-A Rare Form of Granulomatous Lung Disease.** Ann-Marie Edwards

SESSION 2 B - Internal Medicine	Room 1040/1050
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Moderator: Mark Loehrke, MD – Internal Medicine

- 10:45 – 11:00 **A Hot Clot-Septic Pelvic Thrombophlebitis.** Ann-Marie Edwards, Mark Schauer
- 11:05 – 11:20 **Descending Necrotizing Mediastinitis: A Classical, Rarely Seen Entity.** Courtney Barrett, Larry Lutwick
- 11:25 – 11:40 **Stanford Type B Aortic Dissection in Loeys-Dietz Syndrome with a Repaired Stanford Type A Aortic Dissection.** Yashwant Agrawal, Bhavik Khajuria, Vishal Gupta

SESSION 2 C - Pediatric and Adolescent Medicine	Room 2016/2018
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Moderator: Martin Draznin, MD – Pediatric and Adolescent Medicine

- 10:45 – 11:00 **Periodic Fever Syndrome: A Case of TRAPS.** Sonia Joychan
- 11:05 – 11:20 **Genital Ulceration and Periorbital Edema as Atypical Presentations of Epstein-Barr Virus in Adolescent Females.** Christina D. Ball, Gonzalo Rodriguez
- 11:25 – 11:40 **De Novo Chromosomal 19 Partial Deletion of 19p13.11-p13.12.** Joseph Fakhoury, Thomas Pott, Seth Malin

SESSION 2 D - Orthopaedic Surgery	Room 2020
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Moderator: Karen Bovid, MD – Orthopaedic Surgery

- 10:45 – 11:00 **Development of a Validated Finite Element Model for Fracture Plating.** Peter A. Gustafson, Paul Danielsky, James R. Jastifer
- 11:05 – 11:20 **Musculoskeletal Education During Medical School: A Survey of Allopathic and Osteopathic Medical Students.** Jason Habeck, Mubashir Saeed, Nicole Van De Velde, Toufic Jildeh, DJ Lombardo, Vani Sabesan
- 11:25 – 11:40 **Injury to the Profunda Femoral Vein: A Rare but Devastating Result of a Displaced Lesser Trochanter Fracture.** Jessica G. Kingsberg, Robert R. Gorman

SESSION 3 - Awards Presentation**Kirsch Auditorium**

**The following presentations represent the top-scoring abstracts
in each of the six topic areas.**

Together with Dean Jenson, we congratulate all of the authors on their fine work.

- 1:35 – 1:55 **Quality Improvement Research Award**
**Improving the Quality of Prenatal Care Provided at the WMed Family
Medicine Clinic.** Susan Jevert, Kanika Jaggi, Lauren Piper, Allan Wilke, Michael Clarke
- 2:00 – 2:20 **Clinical Research Award**
**Three Dimensional (3D) Printing and Virtual Surgery for Preoperative
Planning of Deformity Correction in Orthopaedic Surgery.** James R. Jastifer,
Peter A. Gustafson, Tyler Snoap
- 2:25 – 2:45 **Community Research Award**
**The High Cost of Crime Victimization Experienced by Mental Health
Consumers.** Catherine Kothari, Robert Butkiewicz, Jeff Patton
- 2:50 – 3:10 **Education Research Award**
**A Survey of Wilderness Medicine Curricular Content in Emergency Medicine
Residency Programs.** Elizabeth J. Aronstam, David T. Overton
- 3:15 – 3:35 **Basic Sciences Research Award**
**Biomechanical Consequences of Lateral Meniscal Posterior Root Avulsions:
Influence of the Menisconfemoral Ligaments and Anterior Cruciate Ligament
on Tibiofemoral Contact Mechanics.** Andrew G. Geeslin, David M. Civitarese, Travis
L. Turnbull, Grant J. Dornan, Fernando Fuso, Robert F. LaPrade
- 3:40 – 4:00 **Medical Humanities Research Award**
The Historical Evolution of Endoscopy. Sarah L. Ellison, Luis H. Toledo-Pereyra

POSTER PRESENTATIONS

Rooms 1035/1045/1055

1. **Trends in the Hospital Stay for Multiple Myeloma Patients as per the Healthcare Cost and Utilization Project-Nationwide Inpatient Sample Database.** Abhishek Seth, Karthik Kannegolla, Rakshita Chandrashekhar, Mark Schauer
2. **Properties of a Single Global Question in Faculty Evaluation of Psychiatry Residency Graduates.** Robert D. Strung, Kathleen A. Gross, Michael R. Liepman, Nauman Khan, Olga Hadden, Julie Coyle
3. **Visceral Heterotaxy Syndrome with Isolated Levocardia, Interrupted IVC, and Jejunal Atresia.** Devika Malhotra, Silpa Nadella, Andrea Scheurer-Monaghan
4. **Management of the Pediatric Patient at Risk for Type 1 Diabetes.** Silpa Nadella, Aditya V. Dewoolkar, Craig Beam
5. **Management Affecting Long Term Survival in Trisomy 13.** Silpa Nadella, Stephanie Ling, Anju Patel, Meveshni Govender, Dilip Patel
6. **Excellence in Adolescent Immunizations at Western Michigan University Homer Stryker M.D. School of Medicine.** Glenn Dregansky, Susan Jevert, Julius Ramirez
7. **The Contributions of Galen to Modern Anatomy and Physiology.** Luis H. Toledo-Pereyra
8. **ACGME Milestone Achievement through Simulation: Development of an Extensor Tendon Repair Simulation Model.** Elizabeth J. Aronstam, David T. Overton
9. **Efficacy of Complementary and Alternative Therapy in Cerebral Palsy.** Jacqueline A. Harrison, Lindsey E. Hough, Dilip R. Patel
10. **Young Breast Cancer Survivors: Fear of Recurrence and Impact on Screening Behaviors.** Kelley H. Pattison
11. **Decrease in Inpatient Mortality for Acute Myeloid Leukemia Patients - an Analysis of 317,017 Hospital Visits From 1993-2012.** Abhishek Seth, Karthik Kannegolla, Rakshita Chandrashekhar, Sreenivas Chandana
12. **30-day Readmission Rate for Patients Discharged with Sickle Cell Crisis: an Analysis of 369,103 Admissions.** Abhishek Seth, Karthik Kannegolla, Sumaiya Ansari, Mark Schauer
13. **Old Disease, New Location: A Case of Iatrogenic Eustachian Valve Endocarditis.** Abhishek Seth, Karthik Kannegolla, Sumaiya Ansari, Mark Schauer
14. **Demographic Factors Associated with a High 30-day Readmission Rate after Bone Marrow Transplant.** Abhishek Seth, Karthik Kannegolla, Sreenivas Chandana
15. **Acquired Hemophilia: Patient with Factor VIII Antibodies, Presenting with Bilateral Upper Extremity Compartment Syndrome.** Abhishek Seth, Steve Stone, Karthik Kannegolla, Sreenivas Chandana
16. **Coexistent Xanthogranulomatous Pyelonephritis and Renal Cell Carcinoma.** Amir Koldorf, Andrea Landon, Aaron Roberts, Mark Schauer
17. **Adding to the Differential Diagnosis for Painless Jaundice.** Andrew J. Whipple, Christopher M. Begley, Akshay Amaraneni
18. **An Unknown Cause of Acute Disseminated Encephalomyelitis.** Anju Patel, Alexandra Melonakos, Aaron Lane-Davies
19. **Mycophenolate-Induced Posterior Reversible Encephalopathy Syndrome in the Setting of Lupus Nephritis: A Case Report and Review of Literature.** Bhavik Khajuria, Yashwant Agrawal, Amir Koldorf, Joanne Baker
20. **Sexsomnia: A Case Presentation of a New DSM 5 Diagnosis.** Brandon G. Moore
21. **Foot/Ankle Fracture in War Conditions.** Christian W. Ertl, Brian Cheung, Nicole Carpp

22. **Homeless in a Graveyard: Diagnosing a Book by its Cover.** Carmen D. Garcia, Mark Kanzawa
23. **Groin Injury in a Collegiate Football Athlete.** Charlotte M. H. Moriarty, Robert J. Baker
24. **Comparing Hospitalization Charges of Teaching vs Non-Teaching Hospitals: Analysis of the Leading 30 Admission Diagnoses.** Mark Loehrke, Andrew Whipple, Christopher M. Begley
25. **Not All Valve Vegetations are Endocarditis.** Christopher M. Begley, Akshay Amaraneni, Andrew Whipple, Ethan Ebner
26. **Animal Bacterium in the Human Heart – A Case of Native Valve Endocarditis Caused by Staphylococcus Simulans in an Immunocompetent Patient.** Christopher M. Begley, Akshay Amaraneni, Andrew J. Whipple
27. **Man’s Best Friend? A Case of Human Pulmonary Dirofilariasis.** Devin Malik, Akshay Amaraneni, Sukhpreet Singh
28. **The Association of Asymptomatic Bacteriuria and Behavioral Deterioration in Dementia.** Elmira Yessengaliyeva, Anusuiya Nagar, Perry Westerman, Susanne Haas
29. **Recurrent Suppurative Thyroiditis with Underlying Pyriform Sinus Fistula.** Geneva A. Sagun, Aaron L. Lane-Davies
30. **Viral Myocarditis Presenting as ALTE (Apparent Life-Threatening Event) in an Infant.** Geneva A. Sagun, Matthew T. Siuba, Bryan A. Corpus
31. **Are Firearms a Problem in Southwest Michigan?** Scott B. Davidson, Sheri L. VandenBerg
32. **Complete Nephrectomy and Splenectomy - The End Result of a Staghorn Calculus.** Ibad U. Farooqui, Kanika Jaggi, Steven Pollens
33. **Heat Exhaustion in a Pediatric Patient with Anhidrosis.** Jason Lam, Sapna Sadarangani, Tom Melgar
34. **Collegiate Football Movement Disorder.** Jedediah L. Jensen, James T. VanHuysen, Michelle L. Crooks
35. **Diagnosis and Management of Esophageal Adenocarcinoma: A Case Report and Literature Review.** Julia J. Ng, Earl Norman
36. **Rare Cause of Headache in a Child.** Kanika Jaggi, Ibad U. Farooqui
37. **Rare Cause of Failure to Thrive in an Infant.** Kanika Jaggi, Sneha Patel, Kristi Vanderkolk
38. **Rare Case of Renal Cell Carcinoma Metastasis to Parotid Gland and External Jugular Vein 15 Years Later Resection.** Karthik Kannegolla, Rakshita Chandrasekar, Abhishek Seth, Juraj Zahatansky, Sree Chandana
39. **Cryptococcus Neoformans Meningitis in an Immunocompetent Host – Rare but Becoming Less Uncommon.** Karthik Kannegolla, Rakshita Chandrasekar, Abhishek Seth, Monoj Kondra
40. **Historical Advances in Infectious Diseases Management as a Spring Board for General Medicine.** Kevin Cates, Larry Lutwick
41. **Lady Windermere Syndrome Due to Mycobacterium Abscessus.** Ann-Marie Edwards, Larry Lutwick
42. **Adult Brain Abscess Following Esophageal Dilation: An Uncommon Association.** Andrew Whipple, Larry Lutwick
43. **Paraphytonosis: Rhizobium Radiobacter, A Plant Pathogen Causing Human Disease.** Andrew Whipple, Larry Lutwick
44. **Left Ventricular Pseudoaneurysm Presenting as To-and-Fro Murmur Following Mitral Valve Repair.** Matthew T. Siuba
45. **Disseminated Visceral Varicella Zoster (DV-VZV) Masquerading as Gastrointestinal Ischemia.** Matthew T. Siuba, Richard Card II

- 46. Finger Amputation after Injection with Lidocaine and Epinephrine.** Todd Ruiter, Nicholas Miladore, Thomas Harter, Alice Neafus, Michael Kasdan
- 47. Extensor Carpi Radialis Longus and Brevis Rupture in a Boxer.** Nicholas Miladore, Timothy Mundell, Todd Ruiter
- 48. A Case Report of Bartonella Henselae Osteomyelitis in a Pediatric Patient.** Paul J. Danielsky, Karen M. Bovid
- 49. Distal Radius Fracture in a Surgeon's Dominant Wrist.** Eric D. Gallagher, Peter J. Howard, Todd Ruiter, Larry Walton
- 50. Cryptococcus Neoformans Pericarditis in an Immunocompromised Patient.** Kristin N. Harjer, Akshay Amaraneni, Thomas Flynn
- 51. WMed: Work on Medication Error Discrepancies.** Tracey L. Mersfelder, Kevin J. Kavanaugh, T. Kurtis Schubert, Richard D. Card II, John S. Fleming, Ryan F. Halas, Abhishek Seth, Carleigh Zahn
- 52. Application of a Modified Habit Reversal Treatment Protocol for Skin Picking.** Roberto Flachier
- 53. Rapid Visual Loss in the Setting of Recent Cognitive and Personality Change: A Case of Creutzfeldt Jakob Disease.** Sadia Shaukat, Perry Westerman
- 54. Pulmonary Tumor Embolism: An Uncommon Diagnosis with a Common Presentation.** William Fangman, Daniel Votava, Scott Gibson, Nigel Bramwell
- 55. Analysis of Tuberculosis Demographics and Survey of Ten Year Trend of 84,000 Patients in United States.** Rakshita Chandrashekar, Karthik Kannegolla, Mark Loehrke
- 56. The Missing Piece of the Puzzle: A Rare Case of Postsplenectomy Sepsis from GAS.** Rakshita Chandrashekar, Pimpawan Boapimp, Larry Lutwick
- 57. Metastatic Follicular Thyroid Carcinoma Presenting as Primary Renal Tumor.** Rakshita Chandrashekar, Lee A. Bricker
- 58. Complete Dihydropyrimidine Dehydrogenase Deficiency: A Rare Phenomenon.** Rakshita Chandrashekar, Karthik Kannegolla, Sreenivasa Chandana
- 59. Heart Bleeds into the Chest: Pseudoaneurysm Dissection into Anterior Chest Wall.** Rakshita Chandrashekar; Jagadeesh Kalavakunta; Monoj Konda; Karthik Kannegolla; Vishal Gupta
- 60. Peripartum Cardiomyopathy: Demographics and Trends.** Rakshita Chandrashekar; Jagadeesh Kalavakunta; Sourabh Aggarwal; Karthik Kannegolla; Christopher Rogers
- 61. Allopurinol for Primary and Secondary Prevention of Cardiovascular Disease.** Rakshita Chandrashekar, Karthik Kannegolla, Ben Dormitorio, Luis Toledo
- 62. Henoch Schonlein Purpura in an Adult Patient.** Sandeep Patri, Shannon McCormack, Akshay Amaraneni
- 63. A Mysterious Case of Drug Induced Delirium.** Sarah F. Raiyn, BK Ramesh, Michael R. Liepman
- 64. A Case of Neurocysticercosis in Western Michigan.** Imran Shafqat, Rakshita Chandrashkar, Hugh Wong
- 65. New Onset Adolescent Pulmonary Sarcoidosis.** Thomas Pott, Aditya Dewoolkar, Ifeoluwapo Eleyinafe, Mary Moore
- 66. Challenges in Recognizing Synthetic Cannabis-Induced Psychosis.** Thomas Pott, Ryan Jones, Larry Mann, Bryan Corpus
- 67. Saphenous Venous Graft Aneurysm with Right Atrial Fistulous Formation.** Yashwant Agrawal, Pavan Poturu, Jagadessh Kalavakunta, Vishal Gupta