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RADISSON CONFERENCE CENTER FLOOR PLANS .................................. 4
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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://www.med.wmich.edu/research/research-activities/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.
After completion of the form, print or save a copy for your files.

The CME Activity Code is available by handout at the Check-in table.

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 5.0 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 Accredidation
Council for Continuing Medical Education (AACME). 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

The 34th anniversary of Research Day represents a set of firsts in the growth of Western Michigan University Homer Stryker M.D. School of Medicine (WMed) and Research Day, as we not only look forward to holding the conference at a new venue located in the Radisson in downtown Kalamazoo, but for the first time we are also excited to include presentations from our WMed medical students. We look forward to the continued participation by our students, residents, faculty, and community in future years as we continue expansion of our research, clinical, educational, and service activities across the medical school and throughout the community.

The commitment and participation of WMed faculty and the Kalamazoo scientific community in Research Day continues, as represented by the large increase in number of submissions received for this year’s event. Over 230 abstracts were submitted for consideration this year, an increase of over 100 abstract submissions in comparison with last year’s event. As a result, there will be more oral presentations and significantly more posters than in previous years. The increased submission volume also meant that oral sessions could not accommodate all of the quality submissions, although each of these authors was provided an option to present their work in the poster session.

We also 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 30 judges participated in the reviews. Each judge typically reviewed approximately 30 submissions, which were assigned based upon area of expertise. The judges’ evaluations were critical in determining the award winning presentations and posters, as well as those selected for presentation in the oral sessions. Awards will be presented today to the best research studies in each of six submission categories, as well as the top-scoring posters, to recognize the excellence of research, education, and scholarship.

The continuous support and collaborative efforts of faculty and staff involved in the planning and implementation of this year’s Research Day are greatly appreciated.

On behalf of Western Michigan University Homer Stryker M.D. School of Medicine, we welcome you and hope you enjoy this rewarding day.

Dale D. Vandré
Associate Dean for Research
Chair, 2016 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 and/or session moderators for today’s event.

<table>
<thead>
<tr>
<th>Syed Alam, MD</th>
<th>Arthur Feinberg, MD</th>
<th>Gitonga Munene, MD</th>
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<tbody>
<tr>
<td>Fritz Allhoff, MD</td>
<td>Rolbert Fischre, MD</td>
<td>Ahsan Nazeer, MD</td>
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<tr>
<td>Hakima Bachimi-Aqel, MD</td>
<td>Tyler Gibb, JD, PhD</td>
<td>Earl Norman, MD</td>
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<td>Robert Baker, MD</td>
<td>Jeffrey Greene, PhD</td>
<td>David Overton, MD</td>
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<td>Joanne Baker, DO</td>
<td>Vishal Gupta, MD</td>
<td>Dilip Patel, MD</td>
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<td>Susan Bannon, MD</td>
<td>David Hartman, MD</td>
<td>Elizabeth Brooke Pope, PhD</td>
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<td>Daniel Barnas, MD</td>
<td>Kristen Hatten, PhD</td>
<td>Jerry Pratt, MD</td>
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<td>Tim Bauler, PhD</td>
<td>James R. Jastifer, MD</td>
<td>Kelly Quesnelle, PhD</td>
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<td>Craig Beam, PhD</td>
<td>Jagadeesh Kalavakunta, MD</td>
<td>Dale Rowe, MD</td>
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<td>Tom Blok, MD</td>
<td>Keith Kenter, MD</td>
<td>Steven Rudich, MD</td>
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<td>Karen Bovid, MD</td>
<td>Wendy Lackey, PhD</td>
<td>Sharma Saith, MD</td>
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<td>Joseph Calles, MD</td>
<td>Mark Loehrke, MD</td>
<td>Carrie Sandborn, DO</td>
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<td>Sreenivasa Chandana, MD</td>
<td>Larry Lutwick, MD</td>
<td>Robert Satonik, MD</td>
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<tr>
<td>Joseph Chess, MD</td>
<td>Jessica McCoy, MD</td>
<td>Mark Schauer, MD</td>
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<tr>
<td>Jim DeMoss, DO</td>
<td>Vicki McKinney, PhD</td>
<td>Saad Shebrain, MD</td>
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<td>Bonny Dickinson, PhD</td>
<td>Thomas A. Melgar, MD</td>
<td>Shama Tareen, MD</td>
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<tr>
<td>Martin Draznin, MD</td>
<td>Tracey Mersfelder, PharmD</td>
<td>Dale Vandré, PhD</td>
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<td>Glenn Dregansky, DO</td>
<td>Lisa Miller, MD</td>
<td>Perry Westerman, MD</td>
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<td>Glenn Ekblad, DO</td>
<td>Manoj Mithal, PhD</td>
<td>Allan Wilke, MD</td>
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<tr>
<td>Christian Ertl, MD</td>
<td>Nathan Mollberg, DO</td>
<td>Jeffrey Wilt, MD</td>
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RADISSON CONFERENCE CENTER FLOOR PLANS

Lobby Level

Check-in and Sessions

- Keynote Speaker with Lunch
- Afternoon Oral Presentations and Awards

Lower Level

Sessions

- Oral Presentations Sessions I & II
- Poster Session
- Vendor Displays
SCHEDULE

8:00 – 8:30 am  
**Check-in**  
Refreshments available  
Lobby Level

8:30 – 9:45 am  
**Oral Presentation Session 1**  
Session 1A  
Stone Theatre  
Session 1B  
The Prairies IV & V  
Session 1C  
The Glens I & II  
Session 1D  
The Meadows

9:50 – 10:50 am  
**Poster Presentations**  
Kalamazoo Room

9:50 – 10:50 am  
**Vendor Display Tables**  
Lower Level Area

11:00 am – 12:15 pm  
**Oral Presentation Session 2**  
Session 2A  
Stone Theatre  
Session 2B  
The Prairies IV & V  
Session 2C  
The Glens I & II  
Session 2D  
The Meadows

12:15 – 12:25 pm  
**Break**  
Restrooms, pick up boxed lunch, find seat

12:30 – 1:40 pm  
**Lunch / Keynote Speaker**  
Arcadia Ballroom I & II

1:45 – 3:15 pm  
**Oral Presentation Session 3**  
Arcadia Ballroom I & II  
1:45-2:00 pm  Community Research  
2:00-2:15 pm  Educational Research  
2:15-2:30 pm  Quality Improvement Research  
2:30-2:45 pm  Medical Humanities Research  
2:45-3:00 pm  Basic Science Research  
3:00-3:15 pm  Clinical Research

3:15 – 3:30 pm  
**Award Presentation**  
Arcadia Ballroom I & II

3:30 pm  
**Farewell**  
Arcadia Ballroom I & II
KEYNOTE SPEAKER

The Dr. Robert P. Carter
Research Lecture

Patrick Schlievert, PhD
Chair and Department Executive Office, Professor of
Microbiology and Internal Medicine, University of
Iowa Carver College of Medicine
presents

Staphylococcus aureus Can Cause
Diabetes Mellitus Type II

Dr. Patrick M. Schlievert is Professor and Department Executive Officer of the Department of Microbiology, University of Iowa Carver College of Medicine. He is also Co-founder and Chief Scientific Officer of Hennepin Life Sciences.

Dr. Schlievert and his clinical colleagues have described the causes of 29 newly recognized infections caused by Staphylococcus aureus and Streptococcus pyogenes. These include the first description, in 1981 in the Journal of Infectious Diseases, of toxic shock syndrome toxin, the major cause of the tampon-associated toxic shock syndrome in collaboration with the Centers for Disease Control and Prevention (CDC). In 1987, Drs. Larry Cone and Schlievert provided the first description of streptococcal toxic shock syndrome (also known as the “flesh-eating streptococcal disease”) and its cause in the New England Journal of Medicine. Most recently, he and his colleagues have proposed that S. aureus and its superantigens are important causes/contributors to development of diabetes mellitus type II.

Dr. Schlievert has focused attention on development of dual-acting anti-infectives, including glycerol monolaurate (GML). GML is a generally recognized as safe compound that is both broadly antimicrobial and anti-inflammatory, thus the name dualacting. The CDC has noted that infections constitute the greatest healthcare costs in the United States. Through the University of Iowa and Hennepin Life Sciences, it is Dr. Schlievert’s hope that GML, as a dual-acting anti-infective, can significantly reduce these infections.

In addition to Dr. Schlievert’s scientific accomplishments, he has trained large numbers of new scientists and physicians. He has received multiple teaching awards for his teaching of graduate and medical students, including being recognized the 2016 American Society for Microbiology Graduate and Medical Teacher of the Year.
# ORAL PRESENTATIONS

## SESSION 1A  
**STONE THEATRE**

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Presenters</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:30-8:45 am</td>
<td><strong>Minimalist Running: A Primer for the Running Athlete’s Medical Team.</strong></td>
<td>Andrew G. Geeslin, MD; James R. Jastifer, MD; Peter A. Gustafson, PhD</td>
</tr>
<tr>
<td>8:45-9:00 am</td>
<td><strong>Fibrolamellar HCC - A Case Series.</strong></td>
<td>Jairo A. Espinosa, MD; Gitonga Munene, MD, FACS; Yirong Zhu; Alex Merlo, MD; Mohamed Arafeh, MD; Marc T. Downing, MD</td>
</tr>
<tr>
<td>9:00-9:15 am</td>
<td><strong>Combined Pediatric Orthopaedic Surgery and General Surgery</strong></td>
<td>Nicholas Miladore, MD; Karen Bovid, MD; Audrey F. Hand, MD; Christian Ertl, MD</td>
</tr>
<tr>
<td>9:15-9:30 am</td>
<td><strong>Results of the Gravity Stress Examination in the Normal Patient Population.</strong></td>
<td>Matthew Jaykel, MD; James R. Jastifer, MD</td>
</tr>
<tr>
<td>9:30-9:45 am</td>
<td><strong>Gastrocnemius Contracture in Patients with and without Foot Pathology.</strong></td>
<td>Jessica Marston, MD; James R. Jastifer, MD</td>
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</table>

## SESSION 1B  
**THE PRAIRIES IV & V**

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Presenters</th>
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<tbody>
<tr>
<td>8:30-8:45 am</td>
<td><strong>Point-of-Care Ultrasound Education in Internal Medicine, Pediatric, and Medicine-Pediatrics Residency Programs: Preliminary Nationwide Survey Data.</strong></td>
<td>Matthew T. Siuba, DO; Michael S. Wagner, MD; Thomas A. Melgar, MD</td>
</tr>
<tr>
<td>8:45-9:00 am</td>
<td><strong>Computer Simulations of Influence of Deformable Blockages on Fluids in an Elastic Blood Vessel.</strong></td>
<td>Dewei Qi; Tai-hsien WU</td>
</tr>
<tr>
<td>9:00-9:15 am</td>
<td><strong>Julius Hess: The Father of American Neonatology.</strong></td>
<td>Alissa Welsh, MD; Luis H. Toledo-Pereyra, MD</td>
</tr>
<tr>
<td>9:15-9:30 am</td>
<td><strong>A Historical Review of Anterior Cruciate Ligament Reconstruction: A Century of Evolution.</strong></td>
<td>Andrew G. Geeslin, MD; Quinter Burnett, MD; Luis H. Toledo-Pereyra, MD, PhD</td>
</tr>
<tr>
<td>9:30-9:45 am</td>
<td><strong>Innovations in Anatomy Education: Reciprocal Peer-Teaching (RPT) at Western Michigan University Homer Stryker M.D. School of Medicine (WMed).</strong></td>
<td>Wendy Lackey-Cornelison, PhD</td>
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### ORAL PRESENTATIONS (cont.)

#### SESSION 1C

**Moderator:** Susan Bannon, MD; Medicine

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Presenters</th>
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<tbody>
<tr>
<td>8:30-8:45 am</td>
<td>Non-Staphylococcal Tricuspid Valve Endocarditis in a Non-Injection Drug User: A Rare Entity.</td>
<td>Larry Lutwick, MD; Eric Yoder, DO</td>
</tr>
<tr>
<td>8:45-9:00 am</td>
<td>Neurosarcoidosis: A Rare Cause of Isolated Myelopathy.</td>
<td>Sandra Koehn, DO; Sara Lang</td>
</tr>
<tr>
<td>9:00-9:15 am</td>
<td>Post Viral Transient Synovitis in a Three Week Old Infant.</td>
<td>Theotonius J. Gomes, DO; Ryan F. Halas, DO; Megan Sikkema, DO</td>
</tr>
<tr>
<td>9:15-9:30 am</td>
<td>A Case of Severe Necrotizing Pancreatitis Infected with the &quot;Nightmare Bacteria&quot; – Carbepenem Resistant Enterobacteriaceae.</td>
<td>Monoj Kumar Konda, MD; Karthik Kailasam, MD; Jason Lam, DO</td>
</tr>
<tr>
<td>9:30-9:45 am</td>
<td>Acute Infectious Purpura Fulminans Related to Pasteurella Multocida Sepsis.</td>
<td>Monoj Kumar Konda, MD; Stephanie Chang, Mathew Zaccheo, DO</td>
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#### SESSION 1D

**Moderator:** Earl Norman, MD; Surgery

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<thead>
<tr>
<th>Time</th>
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<tbody>
<tr>
<td>8:30-8:45 am</td>
<td>Why Patients Miss Scheduled Appointments in the Orthopedic Clinic.</td>
<td>Matthew Jaykel, MD; Karen Bovid, MD; Michael Fonger, PA-C; Satya Dalavayi</td>
</tr>
<tr>
<td>8:45-9:00 am</td>
<td>Identifiable Markers for Low-Income Children, 0-5, Who Fall Through Medical or Community Service Gaps.</td>
<td>Catherine L. Kothari, PhD; Cheryl A. Dickson, MD; Colleen MacCallum, Amy Curtis, PhD; Craig Beam, PhD</td>
</tr>
<tr>
<td>9:00-9:15 am</td>
<td>Case Management Program Shows Marginal Clinical Significance in Outcomes for Patients with Type-2 Diabetes Mellitus at Family Health Center.</td>
<td>Heather I-Hsuan Chen, Patricia J. Choi, Nicole C. Foley, Alan J. Hifko, Sheila Sullivan; Alyssa Woodwyk, Catherine L. Kothari, PhD</td>
</tr>
<tr>
<td>9:15-9:30 am</td>
<td>Mortality in Adult and Pediatric Cystic Fibrosis (CF) Patients Requiring Endotracheal Intubation: A Nationwide Cohort Study.</td>
<td>Matthew T. Siuba, DO; Amy Attaway, MD; Susan Bannon, MD; Frank Jacono, MD; Steven Strausbaugh, MD; Elliott Dasenbrook, MD</td>
</tr>
<tr>
<td>9:30-9:45 am</td>
<td>A Quality Improvement Project to Assess and Treat Cystic Fibrosis (CF) Patients with Inadequate Vitamin D Levels in Kalamazoo, Michigan.</td>
<td>M. Myrtha Gregoire-Bottex, MD; Sally Bonnema; Polly Hollenbeck; Nichole Sackett; Niecia Anjorin</td>
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</tbody>
</table>
ORAL PRESENTATIONS (cont.)

SESSION 2A

**Moderator:** Joseph Chess, MD; Orthopaedic Surgery

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<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Authors</th>
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<tbody>
<tr>
<td>11:00-11:15 am</td>
<td>Partial Tears of the Distal Biceps Brachii Tendon: A Systematic Review of Surgical Outcomes.</td>
<td>Michael A. Behun; Jeffrey C. King, MD; Andrew G. Geeslin, MD; Emma C. O’Hagan</td>
</tr>
<tr>
<td>11:15-11:30 am</td>
<td>Outcome of Glenoid Labral Repairs in Competitive Swimmers.</td>
<td>Keith Kenter, MD; Douglas Hollern, MD; John Divine, MD</td>
</tr>
<tr>
<td>11:30-11:45 am</td>
<td>The Ankle and Subtalar Joint Functional Unit, Rationale for the Development of a Ball and Socket Ankle Joint; A Computational Study.</td>
<td>Tyler Snoap, MD; James R. Jastifer, MD; Peter A. Gustafson, PhD; Aaron Labomuscus</td>
</tr>
<tr>
<td>11:45 am-12:00 pm</td>
<td>Current Concepts Review of Biologic Treatments for Sports Injuries: Basic Science, Clinical Applications, and FDA Regulation.</td>
<td>Andrew G. Geeslin, MD; Robert F. LaPrade, MD, PhD</td>
</tr>
<tr>
<td>12:00-12:15 pm</td>
<td>Prospective Study of Arthroscopic Biceps Tendon Tenodesis with Associated Rotator Cuff Repair: Preliminary Results.</td>
<td>Andrew G. Geeslin, MD; Tyler Snoap, MD; Christopher W. Uggen, MD</td>
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SESSION 2B

**Moderator:** Shama Tareen, MD; Psychiatry

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<tr>
<th>Time</th>
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<th>Authors</th>
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<tbody>
<tr>
<td>11:00-11:15 am</td>
<td>Innovative WMed-Community Partnership Revitalizes Kalamazoo Fetal Infant Mortality Review.</td>
<td>Deb Lenz; Catherine L. Kothari, PhD; Yamini Kuchipudi, MD; Cheryl A. Dickson, MD; Jen Brenton; Grace Lubwama, PhD</td>
</tr>
<tr>
<td>11:15-11:30 am</td>
<td>The Interplay of Race, Socioeconomic Status and Neighborhood Upon Birth Outcomes.</td>
<td>Catherine L. Kothari, PhD; Rajib Paul, PhD; Ben Dormitorio; Fernando Ospina; Arthur James; Deb Lenz; Kathleen M. Baker, PhD; Amy Curtis, PhD; James Wiley, PhD</td>
</tr>
<tr>
<td>11:30-11:45 am</td>
<td>Mapping Core Transmission Area of Single and Repeating Chlamydia and Gonorrhea Cases for Planning STI Interventions in an Urban-Rural County (2012-2014).</td>
<td>Claudio Owusu, Kathleen M. Baker, PhD; Yasaman Back; Rajib Paul, PhD; Elizabeth MacQuillan; Amy Curtis, PhD</td>
</tr>
<tr>
<td>11:45 am-12:00 pm</td>
<td>A Nasal Intermittent Positive Pressure Ventilation Device for Treatment of Neonatal Respiratory Distress in Low Resources Settings.</td>
<td>Nickolas D. Habben; Peter A. Gustafson, PhD; Stephen John; Joseph D. Barnett, Hoa T. Le</td>
</tr>
<tr>
<td>12:00-12:15 pm</td>
<td>Narrative Analysis of Fetal Infant Mortality Review (FIMR) Summaries.</td>
<td>Yamini Kuchipudi, MD; Catherine L. Kothari, PhD; Amy Damashek, PhD; Camryn Romph, Terra Bautista</td>
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### ORAL PRESENTATIONS (cont.)

#### SESSION 2C
**Moderator:** Joanne Baker, DO; Medicine

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Presenters</th>
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<tbody>
<tr>
<td>11:00-11:15 am</td>
<td><strong>TB or not TB: Pulmonary Infection with an Unusual Organism:</strong> Mycobacterium Celatum.</td>
<td>Larry Lutwick, MD; Pimpawan Boapimp, MD</td>
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<tr>
<td>11:15-11:30 am</td>
<td><strong>AKT: A Therapeutic Target in Hepatic Ischemia-Reperfusion Injury.</strong></td>
<td>Stephen Covington; Luis H. Toledo-Pereyra, MD, PhD</td>
</tr>
<tr>
<td>11:30-11:45 am</td>
<td><strong>Mononuclear Phagocytic Infiltration and Inflammation in the Brain in Response to Oral Salmonella Infection.</strong></td>
<td>Tim Bauler, PhD</td>
</tr>
<tr>
<td>11:45 am-12:00 pm</td>
<td><strong>Decreased TNF-α Levels in Preconditioned Rat Livers Following Ischemic Injury.</strong></td>
<td>H. Arad Abadi; Luis H. Toledo-Pereyra MD, PhD; Tarannom Shoghi</td>
</tr>
<tr>
<td>12:00-12:15 pm</td>
<td><strong>Evaluation of MTOT Modulators in Kidney Cell Lines.</strong></td>
<td>Eric Edewaard; Gregory Vanden Heuvel, PhD; Angela Brightell-Conrad, William McDonald, Jerry Colca, PhD; Rolf Kletzien, PhD</td>
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#### SESSION 2D
**Moderator:** David Overton, MD; Emergency Medicine

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<tr>
<td>11:00-11:15 am</td>
<td><strong>Analysis of Prehospital Opioid-Related Cardiac Arrests in a Statewide EMS Information System and the Potential Preventative Value of Non-Paramedic First Responder Naloxone.</strong></td>
<td>Kevin Patel, DO; William Fales, MD</td>
</tr>
<tr>
<td>11:15-11:30 am</td>
<td><strong>A Challenging Percutaneous Intervention of an Unprotected Left Main Coronary Artery.</strong></td>
<td>Monoj Kumar Konda, MD; Vishal Gupta, MD, MPH</td>
</tr>
<tr>
<td>11:30-11:45 am</td>
<td><strong>Increased Lung Weights in Drug Overdoses.</strong></td>
<td>Heather I. Chen; Joyce deJong, DO</td>
</tr>
<tr>
<td>11:45 am-12:00 pm</td>
<td><strong>Restrictive Cardiomyopathy Misdiagnosed as Asthma.</strong></td>
<td>Christopher J. Schmehil, MD</td>
</tr>
<tr>
<td>12:00-12:15 pm</td>
<td><strong>Rapid Response to Propranolol in a Stridorous Patient with Extensive Infantile Hemangiomas.</strong></td>
<td>Devika Malhotra, MD; Ryan F. Halas, DO; Robin Fountain, MD</td>
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ORAL PRESENTATIONS (cont.)

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.

<table>
<thead>
<tr>
<th>SESSION 3</th>
<th>ARCADIA BALLROOM</th>
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<tbody>
<tr>
<td><strong>Moderator:</strong></td>
<td>Dale Vandré, PhD; Biomedical Sciences</td>
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<tr>
<td>1:45-2:00 pm</td>
<td><strong>Pre-Gravid Overweight and Risk of Low Birthweight, Preterm Birth, and Stillbirth Among Kalamazoo County Mothers.</strong> Elizabeth MacQuillan; Amy Curtis, PhD</td>
</tr>
<tr>
<td>2:00-2:15 pm</td>
<td><strong>Domestic Violence Training Improves Trauma-Related Competencies Among Mental Health and Social Service Providers.</strong> Eleanor Yu; Julie Helmer; Sherry Brockway; Catherine L. Kothari, PhD</td>
</tr>
<tr>
<td>2:15-2:30 pm</td>
<td><strong>Improving the Quality of Prenatal Care Provided at the WMed Family Medicine Clinic.</strong> Susan Jevert, DO; Kanika Jaggi, MD; Lauren Piper, DO; Allan Wilke, MD</td>
</tr>
<tr>
<td>2:30-2:45 pm</td>
<td><strong>A Historical Consideration of the Role of Whole Organ Pancreas Transplantation Following 50 Years of Clinical and Experimental Use.</strong> Peter White; Luis H. Toledo-Pereyra, MD, PhD</td>
</tr>
<tr>
<td>2:45-3:00 pm</td>
<td><strong>Stress Concentrations at Coracoclavicular Ligament Reconstruction Tunnels: A Biomechanical and Finite Element Evaluation of Clavicle Fracture Risk.</strong> Peter A. Gustafson, PhD; Mark Omwansa; Mark Sytsma, MD; Andrew G. Geeslin, MD</td>
</tr>
<tr>
<td>3:00-3:15 pm</td>
<td><strong>Experimental Virotherapy of Human Melanoma Tumors in Nude Mice with 15L-knock-out Tanapoxvirus.</strong> Tiantian Zhang, Karim Essani, Yogesh R. Suryawansh, Dennis H. Kordish, Helene M. Woyczesczyk; David Jeng, PhD</td>
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</tbody>
</table>
POSTER PRESENTATIONS

1. **State-wide Patterns in Diabetes Screening Service Utilization: Comparing Medicaid and Blue Cross Blue Shield of Michigan.** Stephen Anim-Preko, Kathleen M. Baker, Monica Kwasnik, Rajib Paul, Elizabeth MacQuillan, Amy Curtis

2. **Improvement in Skill Level of Interns After a Focused Training Session at the Start of an Academic Year.** Abhishek Seth, Thomas A. Melgar, Alec Wilson

3. **All Inside ACL: How Does it Compare to Standard Techniques?** Alexander J Connaughton, Christopher W. Uggen

4. **Hypernatremia in a Patient with Lithium Induced Diabetes Insipidus.** Allan Wilke, Uzair Munshey


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8. **Initial Presentation of Angioedema and Hand Foot and Mouth Disease Caused by Coxsackie B4 Virus in an Adult.** Aness Al-Khateeb, Sumaiya Ansari, Chris Jacob, Guraminder Thind, Karthik Kailasam, Prashant Patel


10. **Mechanism of PWI Motif Function in RNA Processing.** Blair Szymczyna, Harry Chanzu


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13. **Presentation Efficacy: A Comparison of Lecture and Powerpoint--Based Presentation Methods in the Dissemination of Medical Information.** Catherine L. Kothari, Satya Dalavayi

14. **Increasing Participation Rates of the Kalamazoo Summer Food Service Program.** Catherine L. Kothari

15. **A Study of Criminal Justice Involvement of Persons with Intellectual or Developmental Disabilities and Associated Health Consequences.** Catherine L. Kothari, Kathy Lentz
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16. Unsafe Sleep Related Deaths Spike in Kalamazoo County in 2015. Catherine L. Kothari, Susmitha Daggubati, Terra Bautista


19. The Experience of Teachers Managing Attention Deficit/Hyperactivity Disorders (ADHD) in Classrooms at Milwood Magnet Middle School. Cheryl A. Dickson, Tarannom Shoghi, Alyssa Woodwyk, Abby Childs


23. Reducing No-Show Rates at the Family Health Center. Cheryl A. Dickson


25. How to Like Math Again: An Ecological Study in the Importance of High School Mathematics Coursework. Cheryl A. Dickson


27. A Severe Complication of Chronic Otitis Media. Chris Jacob, Christopher DeFelice


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50. Utilization of Liposomal Bupivacaine for Robotic-assisted Gynecologic Surgery at a Community Teaching Hospital: A Retrospective Study. James M. Curtis, David L. Montgomery, Brandon L. Seagle, Anna Hoekstra

51. Investigation of the Regulation of Chronic Inflammation in Endothelial Cells by a Pro-Inflammatory Epoxyisoprostane Phospholipid. James R. Springstead, Gabriel Cole, Piao Jian Tan

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58. Prognostic Factors of Mortality in Patients with Necrotizing Fasciitis of the Abdominal Wall. Jeffrey Johnson, Christian Ertl, Leandra Burke, Nicole Carpp

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70. Death Due to Adenovirus Respiratory Infection. Joseph Prahlow, Patricia J. Choi


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77. A Case of Hemolytic Uremic Syndrome in a 7-year-old Boy Caused by E. coli O157 Gastrointestinal Infection. Philip Bystrom, Joseph Prahlow

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83. **Evaluation of a Physician Education Program to Improve Understanding of Pre-Exposure Prophylaxis for HIV Prevention.** Kevin Cates, Kelly Doyle, Cheryl A. Dickson

84. **A Suspected Case of Alpha-1 Antitrypsin Deficiency in a Patient Deceased 8 Years Prior.** Kevin Cates, Joseph Prahlow

85. **Adaptive Immunity - A Historical Perspective.** Kevin Cates, Bonny Dickinson

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89. **Improving Communication and Provider Satisfaction via Implementation of a Standardized Emergency Department Handoff.** Kevin McKelvey, Philip Pazderka

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91. **Hereditary Chronic Neutrophilia: A Family with a Probable CSF3R Activating Mutation.** Larry Lutwick, Chinton Shah

92. **Penelope's Purulence: A Case of an Infected Pet Pot-Bellied Pig Bite.** Larry Lutwick, Aness Al-Khateeb

93. **The First Reported Case of Mycobacterium paraense sp. nov. in North America.** Larry Lutwick, Elizabeth Kluka

94. **Imported Dengue with Prominent Hepatitis and Neutropenia.** Larry Lutwick MD, Sandra Koehn, Emily Cordes

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97. **Pneumococcal Hip Bursitis: Two Cases of a Rare Infection.** Larry Lutwick, Kevin Cates, Deepak Garg

98. **The Basic Science of HIV Elite Control - A Case and Virologic Review.** Larry Lutwick

99. **Communication in the Patient Interview.** Leah Omilion-Hodges, Autumn Edwards

100. **Rudolf Ludwig Carl Virchow: Father of Modern Pathology.** Luis H. Toledo-Pereyra

101. **Doping Amines.** Mark Kanzawa, Sala Sadaps, Sarah Myer

102. **A Complex Crash Course.** Mark Kanzawa, Sala Sadaps, John Cochrane

103. **Lurasidone-Induced Mania: A Case Report.** Mark Kanzawa

104. **Urgent Release of Severe Psychomotor Retardation with Intramuscular Lorazepam.** Mark Kanzawa, Beena J. Premkumar

105. **Quetiapine: A Double Agent.** Mark Kanzawa, Andrea Landesman

106. **A Rare CFTR Mutation Associated with Severe Disease Progression in a 10-year-old Hispanic Patient.** M. Myrtha Gregoire-Botex, Katherine Soe, Polly Hollenbeck

107. **Caspofungin Resistant Disseminated Candidiasis in T cell Lymphoma.** Manasa Josyula, Michael Schmalz, Arthur Feinberg

108. **It's Always Lupus: An ANA Negative Patient with Lupus Nephritis.** Manpreet S. Narwal, Kanika Jaggi, Larry W. Mann

109. **Meningitis Retention Syndrome: A Rare Case of Saddle Anesthesia and Motor Dysfunction.** Mark Schauer

110. **Self-Poisonings by Kalamazoo Community Mental Health Patients.** Matthew J. Radler, Catherine L. Kothari, Michael R. Liepman, Kathleen A. Gross, Suzanne Suchyta, Alyssa Woodwyk


112. **Epidemiological Monitoring of Opioid Drug Use, Abuse, and Overdose Deaths in Southwest Michigan.** Michael R. Liepman, Achilles Malta, Ashley Bergeon, Mindie Smith

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116. Acute Renal Failure from Interstitial Nephritis Related to Proton Pump Inhibitors in a 39-year-old Patient. Monoj Kumar Konda, Sumaiya Ansari, Yashwant Agrawal

117. Hepatocellular Carcinoma presenting as Heart Failure due to Right Atrial Metastasis at the Time of Diagnosis. Monoj Kumar Konda, Christopher DeFelice, Hardik Chhatrala

118. Cystic Abdominal Mass Secondary to Distal Obstruction of Neovagina Mimicking Bowel Obstruction. Monoj Kumar Konda, Sandeep Patri

119. Chiari Network of the Heart. Monoj Kumar Konda, Vishal Gupta

120. Loculated Empyema Caused by Streptococcus constellatus. Monoj Kumar Konda, Jason Lam, Mark Schauer

121. Acute Triple Valve Infective Endocarditis Involving Native Valves. Monoj Kumar Konda, Yashwant Agrawal, Jagadeesh K. Kalavakunta

122. Aorto-Right Ventricular Fistula Following Percutaneous Trans-catheter Aortic Valve Replacement. Monoj Kumar Konda, Jagadeesh K. Kalavakunta, Vishal Gupta

123. Intravascular Leiomyomatosis Presenting as Right Atrial Myxoma. Monoj Kumar Konda, Jagadeesh K. Kalavakunta, Vishal Gupta

124. Acute Hypersensitivity Pneumonia in the Disguise of Community Acquired Pneumonia in a Young Exterminator. Monoj Kumar Konda, Sumaiya Ansari

125. Impact of Educational Intervention on Discussion of Advanced Directives in an Academic Outpatient Clinic. Anusha Surender, Matthew T. Siuba, Karthik Kannegolla, Sourabh Aggarwal, Craig Swanson, Thomas A. Melgar

126. A Rare Case of Corynebacterium Striatum Endocarditis in an Immunocompetent Patient. Alexander Witte


129. A Rare Cause of Neck Pain in a Pediatric Patient: Spontaneous Septic Arthritis of the Cervical Facet joint. Oro Enaohwo, Aaron Lane-Davies

130. A Finite Element Analysis of the Effects of Lateral Meniscus Posterior Root Avulsions on Tibiofemoral Contact Mechanics. Peter A. Gustafson, Andrew G. Geeslin
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131. **Failure of a Unicondylar Knee Arthroplasty: A Rare Fracture of a Metallic Prosthesis.** Peter Howard, Bernard Roehr, David Christ

132. **The Age of Resilience.** Peter Longstreet

133. **Contrasting a Case of Paranoia Using Freud's Schreber Case, Bio-reductionism and Jasperian Phenomology.** Peter Longstreet, Anusuiya Nagar

134. **Diagnosing Tracheoesophageal Fistula-H type.** Rasha Kazi, Joseph Fakhoury, Andrea Scheurer-Monaghan

135. **A Unique Case of Neuroleptic Malignant Syndrome with Medication Withdrawal.** Rasha Kazi, Joseph Fakhoury, Stephen Lee McGinnis

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138. **Olanzapine Induced Acute Hepatotoxicity: Do We Overlook this Potential Side Effect?** Ruqiya Tareen, Anusuiya Nagar, Kevin Kunzer, Kathleen A. Gross

139. **Pneumomediastinum in High Flow Nasal Cannula Use for Rhinovirus Bronchiolitis.** Ryan F. Halas, Christopher J. Schmehil, Jason Lam, Sherry Pejka

140. **Multi-Drug Resistant Streptococcus Pneumoniae as a Presentation of Cystic Fibrosis in a Two Year Old Male.** Ryan F. Halas, Theotonius J. Gomes, Bryan Corpus

141. **Ingestion of Lightbulb Fragments as Presentation for Pica Associated with Iron Deficiency.** Ryan F. Halas, Jason Lam, Sherry Pejka

142. **Persistent Hyperinsulinemic Hypoglycemia of Infancy as a Seizure Trigger in a 21 Month Old with Previous Epilepsy.** Ryan F. Halas, Theotonius J. Gomes

143. **Bearded Dragon Exposure Resulting in Salmonella Bacteremia.** Silpa Nadella, Oro Enaohwo, Aaron Lane-Davies

144. **Blue Toe Syndrome in an Adolescent Male.** Silpa Nadella, Sonia Joychan, Saad A. Shebrain

145. **Pulmonary Cavitary Lesion in a Patient with Cystic Fibrosis: A Case of Aspergillus Overlap Syndrome.** Sonia Joychan, McKenzie J. Akers, M. Myrtha Gregoire-Bottex

146. **Basal Ganglia Calcification in Newly Diagnosed Pseudohypoparathyroidism.** Sonia Joychan, Silpa Nadella, Dilip Patel, Daniel Fain

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150. Radial Artery Approach for Diagnostic and Therapeutic Procedures in Peripheral Arterial Disease. Syed Alam, Daniel Johnston, Mark Rummel, John Munn, Krishna Jain

151. Recurrent Uterine Papillary Serous Carcinoma Seen as an Isolated Lung Mass Several Years After Completion of Standard Treatment. Stephanie Chang, Monoj Kumar Konda, Anna Hoekstra

152. Solitary Lung Metastasis 2 Years After Successful Treatment of Primary Cervical Adenocarcinoma. Stephanie Chang, Monoj Kumar Konda, Anna Hoekstra

153. Severe Respiratory Disease from Adenovirus Serotype 7. Sumaiya Ansari, Christopher Begley, Andrew Whipple, Karthik Kailasam, Jeffrey Wilt

154. Gliomatosis Cerebri: A Case of a Rare and Lethal Brain Malignancy. Sumaiya Ansari, Monoj Kumar Konda, Jason Lam

155. Cameron Ulcer as a Cause of Acute Symptomatic Anemia. Sumaiya Ansari, Monoj Kumar Konda

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157. Role of Oxidative Stress in Glucosamine-Induced Insulin Resistance in Rat Liver Cells. Susan R Stapleton, Sylvie F Coulibaly

158. Immune Response Following Injury in the Adult Zebrafish Brain. Susanna R. Var, Darcy M. Trimpe, Christine A. Byrd-Jacobs

159. 5-Year Experience with Pre-Hospital Antiarrhythmic Medication in Pediatrics in a Statewide EMS System. William Fales

160. A Retrospective Comparison of the King Laryngeal Tube and I-gel Airways in Out-of-Hospital Cardiac Arrest Initial Experience in a Single EMS System. William Fales, Tyler Vaughn, Kevin Patel, Colleen MacCallum

161. Evaluating the Cost and Utility of Mandating Schools to Stock Epinephrine Auto-Injectors. William Fales, Chelsea Steffens, Benjamin D. Clement, Robert Swor

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163. Progressive Macrocephaly Leading to Emesis and Seizures as a Presentation of Cavernous Hemangioma in a Nine Month Old Infant. Theotonius J. Gomes, Ryan F. Halas, Bryan Corpus

164. Rapid Gram Negative Pathogen Identification Using PCR Diagnostics at Bronson Hospital. Thomas Beuschel

165. Feasibility of an Early Discharge Protocol in Patients with New Venous Thromboembolism in an Emergency Department. Thomas M. Blostica, James M. Curtis

166. A Novel Technique: Retrograde Fixation Femoral Neck for Combined Femoral Head and Neck Fractures Utilizing Surgical Hip Dislocation. Jeffrey Freyder, Tyler Snoap, Jason Roberts


168. Open Hip Dislocation Through the Scrotum: A Case Report. Tyler Snoap, Jason Habeck, Jason Roberts

169. Bone Grafting around an Antibiotic Nail: A Small Case Series. Tyler Snoap, Jason Roberts

170. Bilateral Frostbite of the Hands. Tyler Snoap, Eric Gallagher, Adam Snoap, Todd Ruiter

171. MADI: Medication and Allergy Discrepancy Improves. Tracey Mersfelder, Kevin J. Kavanaugh, Carleigh Zahn, John S. Fleming, Richard D. Card II, T. Kurtis Schubert, Ryan F. Halas, Abhishek Seth

172. Analysis of Pathogens Responsible for Health Care Associated or Community Acquired Pneumonia in the Intensive Care Unit (ICU). Tara Longman, Dean Van Loo

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