

43rd Annual
Southeast Michigan Center for Medical Education

Research Forum

May 26, 2021
8:00 am – 12:30 pm
Virtual



Presented by
**Southeast Michigan Center for Medical Education
Research Committee**

In Collaboration with the following
SEMCME Member Hospitals and Institutions



Beaumont



About the Forum

The Southeast Michigan Center for Medical Education and its member hospitals are pleased to present the 43rd Annual SEMCME Research Forum on Wednesday, May 26, 2021. In addition to their academic and clinical responsibilities, residents in graduate medical education programs participate in research activities. The Forum was established in 1978 to recognize the research efforts of residents from the SEMCME member hospitals and to recognize their scholarly achievements.

This year's Research Forum was expanded to include two opportunities for resident presentations. The voice-over PowerPoint presentations utilizing the YouTube platform will be judged the week of May 17th. The live stream slide presentations will take place on May 26th via Zoom and the winners from both categories will be announced at the end of the Research Forum.

All of the entries were selected from clinic day competitions at their respective SEMCME member hospitals. The 34 research projects submitted this year represent the best research efforts made by SEMCME residents.

Schedule of Events



- 7:45 am **Judges Meeting**
- 8:00 am **Welcome & Introductions**
Karen Hagglund, MS, Chair, SEMCME Research Committee
Medical Researcher, Ascension St. John Hospital
- 8:15 am **Slide Presentations 1-5**
Moderator: Karen Hagglund, MS, Chair, SEMCME Research Committee
Medical Researcher, Ascension St. John Hospital
- 9:30 am **Break**
- 10:00 am **Slide Presentations 6-9**
Moderator: Karen Hagglund, MS, Chair, SEMCME Research Committee
Medical Researcher, Ascension St. John Hospital
- 11:00 am **Break**
- Judges Meet to Review Final Results**
- 11:15 am **Allen Silbergleit, MD, PhD Keynote Lecture**
Introductions: Michael Geheb, MD, Executive Director, SEMCME
- The Impact of COVID-19: Where We Stand*
Arnold S. Monto, MD
The Thomas Francis, Jr. Collegiate Professor
Department of Epidemiology
School of Public Health
The University of Michigan
Ann Arbor, Michigan
- 12:15 pm **Awards & Wrap Up**
Karen Hagglund, MS, Chair, SEMCME Research Committee
Medical Researcher, Ascension St. John Hospital

Live Stream Slide Presentations¹

<p>Paper #1 8:15 – 8:30</p>	<p>Effect Of Morbid Obesity On Complications, Readmission, And Patient-Reported Outcomes Following Minimally Invasive Transforaminal Lumbar Interbody Fusion: An Inverse Propensity Score Weighted Analysis Authors: Chad F. Claus, DO*; Michael Lawless, DO; Evan Lytle, DO Department of Neurosurgery, Ascension Providence Hospital Faculty Sponsors: Doris Tong, MD; Peter Bono, DO; Prashant Kelkar, DO; Teck M. Soo, MD</p>
<p>Paper #2 8:30 – 8:45</p>	<p>History of Use of Angiotensin Converting Enzyme Inhibitors or Angiotensin Receptor Blockers and Covid 19 Mortality and ICU Admission Rates Authors: Eiman Elhouderi, MD*; Eman Elsawalhy, MD; Irum Mahmood, MD; Najilaa Alsundani, MD Department of Internal Medicine, Beaumont Hospital, Dearborn Faculty Sponsor: David Sengstock, MD</p>
<p>Paper #3 8:45 – 9:00</p>	<p>Sleep Disturbances Among Former Term Neonates Exposed to In Utero Tetrahydrocannabinol (THC) at Preschool Age Author: Mary Kasu, MD Department of Pediatrics, Ascension St. John Children’s Hospital Faculty Sponsors: Athina Pappas, MD; Susan Szpunar, PhD</p>
<p>Paper #4 9:00 – 9:15</p>	<p>Impact of COVID-19 on Cancer Screening: A Meta-Analysis Authors: Mackenzie Mayo, MD*; Rami Bzeih, MD; Bindu Potugari, MD Department of Internal Medicine, St. Joseph Mercy Ann Arbor Faculty Sponsors: Richard Shellenberger, DO; Carolyn Carrera, MD</p>
<p>Paper #5 9:15 – 9:30</p>	<p>Evaluating the Correlation Between Early and Late Quality of Life Declines Using the Expanded Prostate Cancer Index Composite for Clinical Practice (EPIC-CP) After Definitive Stereotactic Body Radiotherapy, Intensity-Modulated Radiotherapy, or Brachytherapy for Prostate Cancer Author: Jacob Parzen, MD Department of Radiation Oncology, Beaumont Hospital, Royal Oak Faculty Sponsors: Daniel Hamstra, MD, PHD; Andrew Thompson, MD; Thomas Quinn, MD; Peter Chang, MD</p>
<p>Break 9:30 – 10:00</p>	
<p>Paper #6 10:00 – 10:15</p>	<p>The Impact of Surgical Approach on Organ-Space Surgical Site Infections after Colon Resections Authors: Chinmayee Potti, MD*; Hassan Nasser, MD; Amy Tang, PhD Department of General Surgery, Henry Ford Hospital Faculty Sponsor: Amalia Stefanou, MD</p>
<p>Paper #7 10:15 – 10:30</p>	<p>The MuLBSTA Score: Predicting Risk of Mortality and Disease Severity in Patients with COVID-19 Pneumonia Authors: Jurgena Tusha, MD*; Verisha Khanam, MD Department of Internal Medicine, Ascension Providence Rochester Hospital Faculty Sponsors: Vesna Tegeltija, MD; Sarwan Kumar, MD</p>
<p>Paper #8 10:30 – 10:45</p>	<p>Improving Radiation Treatment Planning for Locally Advanced Breast Cancer Using Tangential Volumetric-Modulated Arc Therapy Author: Pedro Zamora, MD Department of Radiation Oncology, Harper University Hospital Faculty Sponsor: Michael Dominello, DO</p>
<p>Paper #9 10:45 – 11:00</p>	<p>DEXA Bone Density Scan: A Lateral Point of View Authors: Christopher Zarour, MD, MHA*; Kaitlin Zaki-Metias, MD; Jeffrey MacLean, MD; Barkat Ogunde, MD; Mohammed Al-Hameed, MD Department of Radiology, St. Joseph Mercy Oakland Faculty Sponsors: Khurram Rashid, MD; Bruce Henderson, MD</p>
<p>Break 11:00 – 11:15</p>	

¹The principal author is listed first. With co-authors the presenter is designated with an asterisk*

Allen Silbergleit, MD, PhD Keynote Lecture

The Southeast Michigan Center for Medical Education is pleased to have Arnold S. Monto, MD as the 2021 Allen Silbergleit Lecturer. He will present "The Impact of COVID-19: Where We Stand."

Dr. Monto is the Thomas Francis, Jr., Collegiate Professor of Public Health and Professor of Epidemiology at The University of Michigan School of Public Health in Ann Arbor. Dr. Monto chaired the US Food and Drug Administration's Vaccines and Related Biological Products Advisory Committee (VRBPAC) meetings in December that led to Emergency Use Authorization (EUA) of the Pfizer/BioNTech and Moderna vaccines.

The major focus of Dr. Monto's work has been the epidemiology, prevention, and treatment of acute infections in the individual and the community. Respiratory infections, particularly influenza, have been a major interest to Dr. Monto, with special reference to the evaluation of vaccines in various populations and the assessment of the value of antivirals. He has worked on these issues in tropical and temperate regions. He led the studies of respiratory infection in Tecumseh, Michigan, a landmark study of infection in the community. He has studied various approaches to influenza vaccine use, particularly to control transmission of the virus in the community. Dr. Monto is involved in assessing the efficacy of various types of influenza vaccine in prophylaxis and antivirals in prophylaxis and therapy of influenza, including implications of resistance. He now heads an observational study of effectiveness of influenza vaccines in various settings, including households. His recent activities have included evaluation of face masks and hand hygiene in the control of influenza transmission and determination of efficacy of the traditional inactivated and live attenuated influenza vaccines.

Dr. Monto has been a member of the National Allergy and Infectious Diseases Advisory Council of the U.S. National Institutes of Health and is currently a member of the Vaccine and Related Biological Products Advisory Committee of the U.S. Department of Agriculture. He was past president of the American Epidemiological Society, the 2009 recipient of the Alexander Fleming Award of the Infectious Diseases Society of America for lifetime achievement, and the 2012 recipient of the Charles Merieux Award of the National Foundation for Infectious Diseases. He was a member of the emergency committee making recommendations to the World Health Organization during the most recent influenza pandemic.

SEMCME established the lectureship, formerly the Meadow Brook Lecture Series, in 1977. In 2019, the lectureship was renamed in honor of Dr. Allen Silbergleit, founding member of SEMCME and a nationally recognized surgeon and dedicated researcher, educator, and medical historian. The lecture, held annually in conjunction with the SEMCME Research Forum, continues the tradition of providing physicians and medical education professionals in southeast Michigan with a unique opportunity to hear national and international prominent persons in the forefront of medicine. Past lecturers have included Dr. William Carter announcing the first results of the use of Interferon in tumor reduction, Dr. William DeVries reporting on the first human implantation of a mechanical heart, Dr. Michael DeBakey reporting the long term results of 10,000 coronary artery bypass grafts, Dr. Anthony S. Fauci updating on the Acquired Immunodeficiency Syndrome (AIDS), and Dr. Robert Gale reporting on the effects of the Chernobyl nuclear accident.

Awards

Residents in both the live and voice-over categories are judged on originality, quality of research, and effectiveness of presentation. Over \$2,000 in cash prizes and awards will be made to the winners.

The first place winner in the live stream PowerPoint presentations (LSPP) will also receive the **David R. Pieper, PhD SEMCME Research Award**. This Award, in the form of a handsome silver medal, will honor the many outstanding contributions made by Dr. David Pieper – researcher, faculty educator, mentor, and longtime Executive Director of SEMCME. **The Dawson Award**, also in the form of a silver medal, will be presented to the first place winner in this year's voice-over PowerPoint (VOPP) competition. For over 40 years, this coveted award has recognized the many contributions made by Donald Dawson, MD, a dynamic surgeon and medical researcher involved in early discussions of "cutting edge" medical education consortia in SE Michigan.

Voice-Over Power Point (VOPP) Presentations¹

<p><u>Paper #1</u></p>	<p>High Recurrence Rate for Isolated Elevated MSAFP - Could it Help Predict Adverse Pregnancy Outcomes? Author: Mariam Ayyash, MD, MSCR Department of Obstetrics & Gynecology, Henry Ford Hospital Faculty Sponsors: Madhurima Keerthy, MD ; Jacquelyn Roberson MD; Majid Shaman, MD</p>
<p><u>Paper #2</u></p>	<p>Special Interest Track: An Exploratory Analysis of Participation in a Resident Driven Longitudinal Elective Authors: Ursula Barghouth, DO, MHS, MSPH*; Lindsay Smith, MD, MPH Department of Family Medicine, Beaumont Hospital, Grosse Pointe Faculty Sponsor: Jennifer Kowalkowski, PhD</p>
<p><u>Paper #3</u></p>	<p>Predictive Influences Associated with Identification of Labor and Delivery Complications and Risk Factors Author: Shelby Booker, DO Department of Obstetrics and Gynecology, St. Joseph Mercy Oakland Faculty Sponsor: Daniel Applefield, MD</p>
<p><u>Paper #4</u></p>	<p>Randomized Phase III, Double-Blinded, Placebo-Controlled Study of Prophylactic Gabapentin for the Reduction of Radiation Therapy Induced Pain During the Treatment of Oropharyngeal Squamous Cell Carcinoma Author: Andrew Cook, MD Department of Radiation Oncology, Henry Ford Hospital Faculty Sponsors: Farzan Siddiqui, MD; Benjamin Movsas, MD</p>
<p><u>Paper #5</u></p>	<p>Predictors of Acute Radiation Dermatitis and Esophagitis in African American Patients Receiving Whole Breast Radiotherapy Author: Stephen Dzul, MD, PhD Department of Radiation Oncology, Harper University Hospital Faculty Sponsors: Michael Dominello, DO; Seongho Kim, PhD</p>
<p><u>Paper #6</u></p>	<p>Factors Influencing Procedural Entrustment: Differences Among Residents and Medical Students Author: Darci Foote, MD, MS Department of General Surgery, Beaumont Hospital, Royal Oak Faculty Sponsors: Niki Matusko, MSc; Rishindra Reddy, MD; Gurjit Sandhu, PhD</p>
<p><u>Paper #7</u></p>	<p>Utilization of Procalcitonin to Guide Antibiotic Discontinuation in Respiratory Tract Infections in a Community Hospital Authors: Mishita Goel, MD*; Ankita Aggarwal; Raashi Chawla; Ameer Khan; Aldin Jerome; Sourabh Bidhan Department of Internal Medicine, Ascension Providence Rochester Hospital Faculty Sponsors: Vesna Tegeltija, MD; Sarwan Kumar, MD</p>
<p><u>Paper #8</u></p>	<p>The Role of Sociodemographic Factors in Malignant Neoplasms Among Liver Transplant Recipients and the Associated Mortality and Hospital Burden - A Retrospective Study from the National Inpatient Sample Database Authors: Maryam Haider, MD*; Anusha Bapatla, MD Department of Internal Medicine, Sinai Grace Hospital Faculty Sponsors: Ahmed Jamal Chaudhary, MD; Sana Iqbal, MD; Rana Ismail, PhD, MSc</p>
<p><u>Paper #9</u></p>	<p>Urinary Catheter Alleviation Navigator Protocol (UCANP): Pilot to Reduce Urinary Catheter Reinsertion in Patients in Urinary Retention - Overview of Protocol and Review of Initial Experience Authors: Marcus Jamil, MD*; Hallie Wurst, BS Department of Urology, Henry Ford Hospital Faculty Sponsors: Paula Robinson, RN, BSN; Ilan Rubinfeld, MD; Geehan Suleyman, MD; Edward Pollak, MD; Ali Dabaja, MD</p>

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Voice-Over Power Point (VOPP) Presentations

<p><u>Paper #10</u></p>	<p>Do Telehealth Visits have a Similar Patient Satisfaction Rate to In-Office Visits? Author: Sri Jasti, MD Department of Internal Medicine, St. Joseph Mercy Ann Arbor Faculty Sponsors: A. Manjunathan, MD; A. Ammar, MD; C. Dean, MD</p>
<p><u>Paper #11</u></p>	<p>Attitudes Toward Participation in COVID-19 Vaccination Clinical Trials and COVID-19 Vaccination in Detroit, MI During the Pandemic Author: Reynald John, MD Department of Internal Medicine, Ascension St. John Hospital Faculty Sponsors: Michael Kern, MD; Susan M. Szpunar, PhD</p>
<p><u>Paper #12</u></p>	<p>Multi-Level Stabilization Screws Prevent Proximal Junctional Failure and Kyphosis in Adult Spinal Deformity Surgery: A Comparative Cohort Study Authors: Ascher Kaufmann, MD*; Chad Claus, DO Department of Neurosurgery, Ascension Providence Hospital Faculty Sponsors: Doris Tong, MD; Clifford Houseman, DO; Daniel Carr, DO; Teck-Mun Soo, MD</p>
<p><u>Paper #13</u></p>	<p>Standardizing Treatment for Pneumonia- A QI Initiative Authors: Verisha Khanam, MD*; Jurgena Tusha, MD; Bernadette Schmidt Department of Internal Medicine, Ascension Providence Rochester Hospital Faculty Sponsor: Vesna Tegeltija, MD</p>
<p><u>Paper #14</u></p>	<p>Pritikin Intensive Cardiac Rehabilitation Versus Traditional Cardiac Rehabilitation Outcomes Study (PICO) Author: Dario Manley, MD Department of Internal Medicine, St. Joseph Mercy Ann Arbor Faculty Sponsors: A. Suneja, MD; F. Smith, MD</p>
<p><u>Paper #15</u></p>	<p>Evidence for Use or Discontinuation of Angiotensin-converting Enzyme Inhibitors/Angiotensin Receptor Blockers in Patients with COVID-19 Author: Stephen Manuszak, MD Department of Family Medicine, Ascension Providence Hospital Faculty Sponsor: Emily Soni, DO</p>
<p><u>Paper #16</u></p>	<p>Intravenous Tranexamic Acid and Perioperative Blood Loss in Percutaneous Three-Level Lumbar Fusion: A Feasibility Study Author: Robert McCabe, DO Department of NeuroSurgery, Ascension Providence Hospital Faculty Sponsors: Doris Tong, DO; Clifford Houseman, DO; Prashant Kelkar, DO; Teck-Mun Soo, MD</p>
<p><u>Paper #17</u></p>	<p>Local/Regional Anesthesia Coupled With Dexmedetomidine is a Safe, Effective Anesthesia Modality for Carotid Endarterectomy Authors: Samik Patel, MD*; V. Sundararaghaven, MD; T. Keeney-Bon throne, MD Department of General Surgery, St. Joseph Mercy Ann Arbor Faculty Sponsors: J. Adams, MD; M. Heidenreich, MD; C. Shelgikar, MD; H. Thai, MD; A. Aziz, MD</p>
<p><u>Paper #18</u></p>	<p>Elective Induction of Labor at 39 Weeks Study in a Community-Based Hospital Authors: Farnoosh Qadri, MD*; Rusna Jhita, MD Department of Obstetrics and Gynecology, Beaumont Hospital, Dearborn Faculty Sponsor: Theodore Jones, MD</p>

Voice-Over Power Point (VOPP) Presentations¹

<p><u>Paper #19</u></p>	<p>The Effectiveness of the Nephrocheck Biomarker in the Early Diagnosis of Post-Transplant Acute Kidney Injury (Delayed Graft Function), and Long-Term Kidney Function Post-Transplant Authors: Cassandra Rodd, MD*; Russell Leong, DO; Kellyann Gomes, MD Department of Internal Medicine, Beaumont Hospital, Royal Oak Faculty Sponsor: Paul S. Kellerman, MD</p>
<p><u>Paper #20</u></p>	<p>Improving Knowledge and Quality of Repair in Obstetric Anal Sphincter Injuries (OASIS) Using Beef Tongue Model for Simulation Author: Robert Russell, MD Department of Obstetrics & Gynecology, Beaumont Hospital, Dearborn Faculty Sponsor: Ayesha Khan, MD</p>
<p><u>Paper #21</u></p>	<p>Outcomes of Cholecystectomy in US Veterans with Cirrhosis: Predicting Outcomes using Nomogram Authors: Awni Shahait, MD*; Jose Wilson B. Mesquita-Neto, MD; Mustafa Rashad Hasnain, MD; Mohanad Baldawi, MD Department of Surgery, Harper University Hospital Faculty Sponsors: Donald Weaver, MD; Khaled J. Saleh, MD; Gamal Mostafa, MD</p>
<p><u>Paper #22</u></p>	<p>Implementation of a Pediatric Asthma Pathway in the ED Authors: Jacob Vander Weide, MD*; Stephen Latosinsky, MD; Hamza Khan, MD Department of Emergency Medicine, Ascension St. John Hospital Faculty Sponsor: John Bahling, MD</p>
<p><u>Paper #23</u></p>	<p>Tocilizumab: A Retrospective Multi-Center Cohort Study of Critically Ill Patients with COVID-19 Author: Claudia Villatoro Santos, MD, PhD Department of Internal Medicine, Ascension St. John Hospital Faculty Sponsors: Ashish Bhargava, MD; Meredith Coyle, MD; Susan Szpunar, PhD; Louis Saravolatz, MD</p>
<p><u>Paper #24</u></p>	<p>Complications Related to Intravenous Fluid Management in Hypertensive Disorders of Pregnancy Author: Brian Vu, DO Department of Obstetrics and Gynecology, St. Joseph Mercy Oakland Faculty Sponsor: Adib Abdelrahman, DO</p>
<p><u>Paper #25</u></p>	<p>Sport Concussion Evaluations that Predict the Return to Play in Adolescent Concussive Athletes Authors: Ding Zhang, MD*; Rizwan Alvi, MD Department of Physical Medicine and Rehabilitation, Beaumont Hospital, Taylor Faculty Sponsor: P. Tyler Roskos, PhD</p>



Panel of Judges

Live Stream Slide Presentations

Dwayne Baxa, PhD, Associate Professor of Microbiology, Department of Foundational Medical Studies, Oakland University William Beaumont School of Medicine, Rochester, MI

Furqan Irfan, MBBS, PhD, MBA (Candidate), Assistant Professor and Director of Research Development, Michigan State University College of Osteopathic Medicine, East Lansing, MI

Jack Sobel, MD, Dean Emeritus & Distinguished Professor of Internal Medicine, Division of Infectious Diseases, Wayne State University School of Medicine, Detroit, MI

Holly Turula, PhD, Assistant Professor, Department of Biomedical Sciences
Western Michigan University Homer Stryker MD School of Medicine, Kalamazoo, MI

Voice-Over Powerpoint Presentations

Camelia Arsene, MD, PhD, Medical Director SDOH, ProMedica and Assistant Professor, University of Toledo, OH

Lisa Dillon, PhD, Academic Director, Graduate Medical Education, Detroit Medical Center, Detroit, MI

Alexandra Halalau, MD, FACP, Associate Program Director, Department of Internal Medicine; Research Director, Internal Medicine; Associate Professor, OUWB School of Medicine and Beaumont Hospital, Royal Oak, MI

Kedar Inamdar, MD, PhD, Residency Program Director, Anatomic & Clinical Pathology, Henry Ford Hospital, Detroit, MI

Nadia Juzych, Dsc, Project Manager, Southeast Michigan Center for Medical Education, Detroit, MI

David Pieper, PhD, Retired Executive Director, Southeast Michigan Center for Medical Education, Detroit, MI

David Sengstock, MD, MS, Director of Research, Beaumont Hospital Dearborn and Assistant Professor, Wayne State University School of Medicine, Detroit, MI

Anupam Suneja, MD, MPH, Medical Director, Academic Research; Chair, Research Committee; Associate Program Director and Residency Research Director, Internal Medicine Residency Program, St. Joseph Mercy Hospital, Ann Arbor, MI

Virginia (Ginnie) Uhley PhD, RDN, Associate Professor, Department of Foundational Medical Studies, Oakland University William Beaumont School of Medicine, Rochester, MI

Tracy Wunderlich-Barillas, MA, Director of Research Training, Oakland University William Beaumont School of Medicine, Rochester, MI