

MIDWESTERN VASCULAR 2021
45th Annual Meeting
September 9-11, 2021
Westin Chicago River North
Chicago, IL

PURPOSE AND CONTENT

The purpose of this meeting is to provide state of the art clinical research and vascular biology knowledge relating to vascular disease, with a special emphasis on surgical and endovascular therapy. The program will include presentations of original research by investigators interested in vascular disease. A portion of the program is dedicated to question-and-answer interaction between the presenters and the audience.

EDUCATIONAL OBJECTIVES

At the end of this activity, participants will be able to:

- 1) Apply new techniques and strategies to use electronic medical records more efficiently in their practice.
- 2) Identify important medical risk factors and their management for patients with peripheral artery disease.
- 3) Describe the optimal treatment for patients with challenging abdominal aortic anatomy.
- 4) Discuss risk factors that may contribute to poor outcomes in patients with acute aortic syndrome.
- 5) Improve the delivery of care to vascular patients by applying the latest advances in diagnosis and treatment of peripheral arterial disease, especially those with critical limb ischemia.
- 6) Recognize factors that influence the cost, value and outcomes of carotid artery revascularization procedures.
- 7) Explain which patients can benefit from superficial and deep venous interventions.

ACCREDITATION STATEMENT



In support of improving patient care, this activity has been planned and implemented by Amedco LLC and Midwestern Vascular Surgical Society. Amedco LLC 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.

Physicians (ACCME)

Amedco LLC designates this live activity for a maximum of 13.75 *AMA PRA Category 1 Credits*[™]. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

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2021 SCIENTIFIC PROGRAM

THURSDAY, SEPTEMBER 9, 2021

12:45 PM

WELCOME/INTRODUCTORY REMARKS

Kellie R. Brown, MD, President

1:00 – 2:15

SESSION 1A

1:00 -1:10

†1. Racial Disparities In Presentation And Short-Term Outcome In Patients With Acute Type B Aortic Dissection

Ahmed Sorour, Lee Kirksey, David J. Laczynski, Nicholas G. Hoell, Vidyasagar Kalahasti, Christopher J. Smolock, Sean P. Lyden, Francis J. Caputo

From: Department of Vascular Surgery, Heart Vascular and Thoracic Institute, Cleveland Clinic, Cleveland, OH

1:10 – 1:20

†2. The Effect Of The Location Of Claudication Pain On The Performance Of The Different Muscle Groups Of The Leg And The Walking Patterns Of Patients With Peripheral Artery Disease

Hafizur Rahman^{1,2}, Todd Leutzinger¹, Holly DeSpiegelaere, RN², Mahdi Hassan^{1,2}, Molly Schieber³, Jason Johanning^{2,3}, George Casale³, Iraklis Pipinos^{2,3}, Sara Myers^{1,2}

From: ¹University of Nebraska at Omaha, ²Veterans' Affairs Medical Center of Nebraska and Western Iowa, ³University of Nebraska Medical Center, Omaha, NE

1:20 – 1:30

†3. Evaluation Of A Standardized Protocol For Medical Management Of Uncomplicated Acute Type B Aortic Dissection

Antony Aziz¹, Hannah O'Donnell¹, Donald G. Harris², Hee Soo Jung¹, Paul DiMusto¹

From: ¹University of Wisconsin Hospital and Clinics, Madison, WI, ²University of Washington Medicine-Valley Medical Center, Renton, WA

1:30 – 1:40

†4. Temporary Diaphragm Pacing For Patients At Risk Of Prolonged Mechanical Ventilation After Extensive Open Aortic Surgery

Aric A. Wogsland, Saideep Bose, Norman H. Kumins, Vikram S. Kashyap, Raymond P. Onders, Jae S. Cho

From: Case Western Reserve University, Cleveland, OH

- 1:40 - 1:50 †5. **Opioid Utilization After Lower Extremity Amputation And Discharge Prescribing Recommendations**
- Kaitlyn Rountree**, Jamie B. Smith, Naveen Balasundaram, Jonathan Bath, Todd R. Vogel
From: Division of Vascular Surgery, University of Missouri Hospitals & Clinics, Columbia, MO
- 1:50 – 2:00 †6. **Impact Of Preoperative Anemia In Patients Undergoing Peripheral Vascular Intervention**
- Abdul Kader Natour**, Alexander Shepard, Timothy Nypaver, Ali Rteil, Paul Corcoran, Xiaoqin Tang, Loay Kabbani
From: Vascular Surgery, Henry Ford Health System, Detroit, MI
- 2:00 – 2:10 †7. **Predictors Of Amputation-Free Survival After Endovascular Intervention For Chronic Limb-Threatening Ischemia**
- Gaurang Joshi**¹, Suyue Zhang¹, Kathy Wang¹, Rym El Khoury², Chad Jacobs¹, John White¹, Lewis Schwartz¹
From: ¹Advocate Lutheran General Hospital, Park Ridge, IL, ²UCSF, San Francisco, CA

BREAK

2:30 – 3:45 PM SESSION 1B

- 2:30 – 2:40 †8. **Socioeconomic Disparities Do Not Affect Outcomes In Acute Limb Ischemia**
- Abdul Kader Natour**, Alexander Shepard, Timothy Nypaver, Mitchell Weaver, Andy Peshkepija, Loay Kabbani
From: Vascular Surgery, Henry Ford Health System, Detroit, MI
- 2:40 – 2:50 †9. **Open Surgical Revascularization For Aorto-iliac Occlusive Disease Across Surgical Eras And Surgeon Experience**
- Ali Khalifeh**, Thomas C. Bower, Manju Kalra, Todd E. Rasmussen, Bernardo C. Mendes, Jill Colglazier, Randall R. De Martino, Fahad Shuja
From: Mayo Clinic, Rochester, MN
- 2:50 – 3:00 †10. **Failure Of The SVS Clinical Practice Guidelines To Affect Short- And Intermediate-term Clinical Outcome Following Carotid Endarterectomy**
- Scot Stanulis**¹, Megan McKenna², Mark A. Mattos³
From: ¹Michigan State University College of Human Medicine, East Lansing, MI, ²Ascension Genesys Regional Medical Center, Grand Blanc, MI, ³Michigan Vascular Center/Michigan State University, Flint, MI

† Szilagyi Award, § Guthrie Award, ◇ Pfeifer Award

4:00 – 5:00 PM

NEW HORIZONS IN VASCULAR SURGERY SESSION 1|

“EMR AND YOUR PRACTICE”

“Standardization to Maximize EMR Efficiency”

Jeanette Man, MD

University of Iowa Hospitals and Clinics, Iowa City, IA

“Open Note Initiative and EMR – What We Need to Know”

Joseph Karam, MD, MBA, RPVI

Vascular & Endovascular Surgeon, Minneapolis Heart Institute at Abbott,
Northwestern Hospital, Minneapolis MN

“Strategies to Mitigate EMR-related Burnout and Promote Wellness”

Paul D. DiMusto, MD

Assistant Professor, Division of Vascular Surgery, University of Wisconsin
School of Medicine and Public Health, Madison, WI

“How to Make the EMR Work for You”

Nicolas J. Mouawad, MD MPH, RPVI

Chief and Medical Director, Vascular & Endovascular Surgery, McLaren
Health System - Bay Region, Bay City, MI

5:00 – 5:45 PM

WELCOME RECEPTION

6:00 – 7:00 PM

VIRTUAL POSTER COMPETITION SESSIONS

FRIDAY, SEPTEMBER 10, 2021

8:00 – 9:40 AM

SESSION 2

8:00 – 8:10

15. **Unexpected Emergency Department Visits After Acute Aortic Syndromes**

Julie M. Duke, Amy B. Reed, R. James Valentine

From: University of Minnesota- Twin Cities, Minneapolis, MN

8:10 – 8:20

16. **Impact Of Interfacility Transfer Of Ruptured Abdominal Aortic Aneurysm Patients**

Sungho Lim¹, Stephen Kwan², Benjamin D. Colvard², Alexandre d'audiffret¹, Vikram S. Kashyap², Jae S. Cho³

From: ¹Rush University, Chicago, IL, ²Surgery, Case Western Reserve University, Cleveland, OH

8:20 – 8:30

§17. **The Histone Methyltransferase SETDB2 Regulates Abdominal Aortic Aneurysm Formation**

William James Melvin, Frank Davis, Christopher Audu, Sriganesh Sharma, Amrita Joshi, Aaron DenDekker, Sonya Wolf, Emily Barrett, Andrea Obi, Katherine Gallagher

From: University of Michigan, Ann Arbor, MI

8:30 – 8:40

§18. **A New Paradigm For Endovascular Treatment Of Long Peripheral Arteries**

Rym El Khoury¹, Ivan Tzvetanov², Edward Estrada², Edward McCarroll², Jack Blumeyer², Martin Laflamme³, Louis-Georges Guy³, Lewis B. Schwartz²

From: ¹UCSF, San Francisco, CA, ²Efemoral Medical LLC, Los Altos, CA, ³Charles River Laboratories, Boisbriand, QC, Canada

Sponsored by: Chad Jacobs, MD

8:40 – 8:50

◇19. **Venous Stent Patency Is Independent Of Total Stented Length In Non-thrombotic Iliac Vein And Post Thrombotic Venous Stenoses**

Brent Robertson, Jacob Shapiro, Audrey Muck, Angela Fellner, PhD, Matthew Recht, Aaron Kulwicki, Mark Broering, Brian Kuhn, Patrick Muck

From: TriHealth, Good Samaritan Hospital, Cincinnati, OH

8:50 – 9:00

◇20. **Women Benefit From Endovenous Ablation With Fewer Complications: Analysis Of The VQI VVR**

Benjamin A. Y. Cher, Craig S. Brown, Andrea T. Obi, Thomas W. Wakefield, Peter K. Henke, Nicholas H. Osborne

From: University of Michigan Medical School, Ann Arbor, MI

- 9:00 – 9:10 **21. Evaluation Of Healing Potential In Diabetic Foot Ulcer With Pedal Acceleration Time**
- Kate Dell**, Shoaib Shafique
From: Ascension St Vincent, Indianapolis, IN
- 9:10 – 9:20 **22. Performance Of The Emergency Surgery Score (ESS) For Urgent Endovascular Aneurysm Repair**
- Naveen Balasundaram**, Alexis Peters, Vishruth T. Sunil Kumar, Maraya Camazine, Jonathan Bath, Todd R. Vogel
From: University of Missouri, Columbia, MO
- 9:20 – 9:30 **23. Ankle Brachial Index Use In Peripheral Vascular Intervention For Claudication**
- Katherine E. Hawkins**, R. James Valentine, Julie M. Duke, Amy B. Reed
From: University of Minnesota, Minneapolis, MN
- 9:30 – 9:40 **24. Follow Up Compliance Is Not Contingent On Insurance Provider, Race, Socioeconomic Status Or Patient Co-morbidities In AAA Surveillance**
- Kara Marie Hessel**, Zachary Brannan, John Quinn, Tony Satroplus, Christopher McQuinn, Alexandra Gobble, Robert Beaulieu, Jean Starr, Mounir Haurani
From: Vascular Surgery, The Ohio State University Wexner Medical Center, Columbus, OH

BREAK

10:00 – 10:45 AM SESSION 3

- 10:00 – 10:10 **25. A Deep Dive Into The Meaning Of The Renal Resistance Index, Its Limited Correlation With Renal Function And A Theoretical Way Forward To Improve Its Usefulness**
- Alan P. Sawchuk**¹, Whitney Yu², John Talamantes², Weichen Hong², Dave Rollins³, Raghu Motaganahalli¹
From: ¹Indiana University, ²Indiana University Purdue University Indianapolis, ³Indiana University Health, Indianapolis, IN
- 10:10 – 10:20 **26. Vascular Surgery Specific Ultrasound Model For Vascular Access**
- Jeanette Man**, Rachael Nicholson, Maen Aboul Hosn
From: University of Iowa Hospitals and Clinics, Iowa City, IA

- 10:20 – 10:30 **27. Female Gender A Leading Predictor Of Decline In Renal Function 5 Years After EVAR**
- Matthew J. Blecha**, Lillian Malach, Brooke Dickens, Emily Decicco, Melissa D'Andrea, Matthew Dejong, Carlos F. Bechara
From: Department of Surgery, Division of Vascular Surgery and Endovascular Therapy, Loyola University Chicago, Maywood, IL
- 10:30 – 10:40 **28. Outcomes In The One-Year Cohort After Transcarotid Artery Revascularization (TCAR) In The ROADSTER2 Trial**
- Kristine L. So**¹, Vikram S. Kashyap¹, Peter A. Schneider², Rama Rathore¹, Thi Pham³, Raghu L. Motaganahalli⁴, Douglas W. Massop⁵, Mazin I. Foteh⁶, Hans-Henning Eckstein⁷, Jeffrey Jim⁸
From: ¹University Hospitals Case Medical Center, Cleveland, OH, ²University of California San Francisco, San Francisco, CA, ³Silk Road Medical Inc., Sunnyvale, CA, ⁴Indiana University School of Medicine, Indianapolis, IN, ⁵The Iowa Clinic, West Des Moines, IA, ⁶Cardiothoracic and Vascular Surgeons, Austin, TX, ⁷Technical University of Munich, Munich, Germany, ⁸Abbott Northwestern Hospital, Minneapolis, MN
- 10:40 – 10:45 **29. ANNOUNCEMENT OF 2021 RECEIPT OF POSTER COMPETITION - WINNER PRESENTATION**
- 10:50 – 11:50 AM PRESIDENTIAL ADDRESS**
Introduced by: Raghu Motaganahalli, MD
- “CHALLENGES TO THE HEALTH OF VASCULAR SURGERY”**
- Kellie R. Brown, MD**
2020-2021 President, Midwestern Vascular Surgical Society
Medical College of Wisconsin, Milwaukee, WI
- 12:00 – 12:15 PM PRESENTATION OF RESEARCH AWARDS**
- 12:15 – 1:30 PM MVSS BUSINESS MEETING**

1:45 – 2:30 PM

SESSION 4

1:45 – 1:50

30. Endovascular Repair Of A Mycotic Aortic Aneurysm Infected With BCG After Treatment For Bladder Cancer

Nader Tehrani, Pegge Halandras

From: Loyola University Medical Center, Chicago, IL,

1:50 – 1:55

31. Aneurysmal Dilatation of a Variant Hepato-Spleno-Mesenteric Origin

Richard Longfei Li, Brian Beeman

From: Carle Illinois College of Medicine and Carle Foundation Hospital, Champaign, IL

1:55 – 2:00

32. A Hybrid Approach To Treatment Of A Superior Mesenteric Artery Aneurysm

Muhammad Saleem Khan, Visharad Patel, Austin Blythe, Alison Kinning, Christopher Goltz

From: McLaren Flint/MSU, Flint, MI

2:00 – 2:05

33. Management Of Spontaneous Dissection And Rupture Of Common Iliac Artery In Ehlers-danlos Iv

Simon Fraser, Peter J. Rossi, Eric J. Hohenwalter, Joseph P. Hart, Michael J. Malinowski

From: Vascular Surgery, Medical College of Wisconsin, Wauwatosa, WI

2:05 – 2:10

34. Type 1a Endoleak Unmasked By Catheter Directed Thrombolytics Causing AAA Rupture

Peter J. Lau, Nathan R. Graden, Daniel M. Ihnat, Derrick L. Green, R. James Valentine, Amy B. Reed, Paul M. Orecchia

From: Division of Vascular Surgery, University of Minnesota, Minneapolis, MN

2:10 – 2:15

35. Management Of Covid-associated Great Vessel Aneurysmal Degeneration Through A Hybrid Approach

Adeola Titilayo Odugbesi, Thuan Nguyen, Maen Aboul Hosn

From: Vascular Surgery, University of Iowa Hospitals and Clinics, Iowa City, IA

2:15 – 2:20

36. Internal Jugular To Atrial Bypass With Spiral Vein Graft For Superior Vena Cava Syndrome

William E. Poulson, Michael J. Moulton, Jonathan R. Thompson, Justine Miller, Bernard T. Baxter

From: Division of Cardiothoracic and Vascular Surgery, University of Nebraska Medical Center, Omaha, NE

2:20 – 2:25

37. Common Carotid To Common Carotid Artery Transposition For Brachiocephalic Trunk Occlusion

Shoaib Shafique, Kate Dell

From: Vascular Surgery, Ascension St Vincent, Indianapolis, IN

BREAK

3:00 – 4:30 PM

NEW HORIZONS IN VASCULAR SURGERY SESSION 2

“UPDATES IN VASCULAR MEDICINE”

“Thrombophilia Workup and Management: Who I Test and What I Do”

Andrea T. Obi MD

Assistant Professor, Vascular Surgery, Michigan Medicine Vascular Surgery Clinic, Cardiovascular Center, Ann Arbor, MI

“Exercise Programs for PAD”

Abdulhameed (Hameed) Aziz, MD

Vascular and Endovascular Surgeon, Associate Program Director – General Surgery, IHA Vascular and Endovascular Specialists, Saint Joseph Mercy Ann Arbor Hospital, Ypsilanti, MI

“Perioperative Management of Diabetic Patients”

Pegge M. Halandras, MD

Associate Professor, Chief of Vascular Surgery, Edward Hines Jr. VA Hospital, Department of Surgery, Division of Vascular Surgery and Endovascular Therapy Loyola University of Chicago/Stritch School of Medicine, Maywood, IL

“Smoking Cessation Programs – What Works”

John G. Maijub, MD, RPVI

Assistant Professor of Surgery, Associate Program Director of Vascular Surgery Training Programs, Division of Vascular Surgery, Department of Surgery, Indiana University School of Medicine, Indianapolis, IN

“Advances in Amputation and Rehabilitation”

Gregory A Dumanian, MD

Chief of Plastic surgery in the Department of Surgery
Orion H. and Lucille W. Stuteville Professor of Plastic and Reconstructive Surgery
Northwestern Feinberg School of Medicine, Chicago, IL

“Perioperative Management of the Vascular Patient with Renal Insufficiency”

Brian A. Kuhn, MD, RPVI

Associate Program Director Vascular Fellowship and Integrated Residency at TriHealth, Cincinnati, Ohio

SATURDAY, SEPTEMBER 11, 2021

8:30 – 9:30 AM

NEW HORIZONS IN VASCULAR SURGERY SESSION 3

“ADVANCES IN ENDOVASCULAR AORTIC REPAIR”

“Minimal Radiation options for EVAR Procedures”

Neel Mansukhani, MD

Assistant Professor, Medical College of Wisconsin, Milwaukee, WI

“Managing Difficult Access for EVAR”

Trissa A. Babrowski, MD

Assistant Professor of Surgery/Vascular Surgery, Director, Limb Salvage Program
University of Chicago Medicine, Chicago, IL

“Tips and Tricks for EVAR Explantation”

Francis J. Caputo, MD

Department of Vascular Surgery, Sydell and Arnold Miller Family Heart, Vascular &
Thoracic Institute, Cleveland Clinic, Associate Professor of Surgery, Cleveland
Clinic Lerner College of Medicine of Case Western Reserve University, Cleveland,
OH

“Contrast Enhanced Ultrasound For Endoleak Follow-up” (Virtual Presentation)

Thanila A. Macedo, MD

Associate Professor of Radiology, UTHealth, Health Science Center at Houston,
McGovern Medical School, Houston, TX

9:30 AM

“MVSS Webinar Series – Update”

Ross Milner, MD

Co-Chair, MVSS Educational Outreach Committee
Professor of Surgery, Section of Vascular Surgery and Endovascular Therapy,
Vice-Chair, Clinical Affairs and Peri-operative Services, Co-Director, Center for
Aortic Diseases, Pritzker School of Medicine, The University of Chicago
Medicine & Biological Sciences, Chicago, IL

9:45 AM – 10:45 AM

HONORARY GUEST LECTURE

Introduced by: Raghu Motaganahalli, MD

“Nations Doc to Doctors of the Nation: Reflections on the Past Four Years and Hopes for a New (And Better) Normal”

JEROME M. ADAMS, MD, MPH, FASA

20th Surgeon General of the United States

BREAK

- 11:00 – 11:05 **38. Safety And Feasibility Of Autologous And Allogeneic Cell Therapy In Preventing Wound Complications After Below-knee Amputation**
- Justin Rossel King**, Leni Moldovan, Michael D. Ingram, Katherin E. Leckie, Chang-Hyun Gil, Keisin Wang, Michael P. Murphy, Gregory G. Westin
From: Indiana University School of Medicine, Indianapolis, IN
- 11:05 – 11:10 **39. Assessment Of Determinants Of Value In Carotid Endarterectomy**
- Craig Brown**, Nicholas Osborne, Michael Kemp, Ahmad Hider, Caleb Scheidel, Jeremy Albright, Peter Henke
From: University of Michigan, Ann Arbor, MI
- 11:10 – 11:15 **40. Primary Patency Of Infrainguinal Bypass Is Correlated To The Quality Of The Profunda Femoral Artery**
- Alexis Peters**¹, Ankita Nallani¹, Raja K. Rajamanickam², Todd R. Vogel¹, Jonathan Bath¹, Naveen Balasundaram¹
From: ¹University of Missouri, Columbia, MO, ²Cleveland Clinic Foundation, Cleveland, OH
- 11:15 – 11:20 **41. Impact Of An Ultrasound (US) Demonstration On Vascular Surgery (VS) Interest In Pre-clinical Medical Students**
- Zachary J. Brannan**, John Quinn, Amanda Woo, Amber Mirza, Michael Go
From: The Ohio State University College of Medicine, Columbus, OH
- 11:20 – 11:25 **42. Race Dependent Variability In Rates Of Amputations And Revascularization, A Contemporary Trend Analysis Of Hospitalized Patients From 2003 – 2017**
- Alex Trenk**¹, Kristine Kuchta², David Jiang³, Julia Amundson³, Omar Morcos⁴, Benjamin Lind⁵, William Yoon⁵, Alfonso Tafur⁵, Arman Qamar⁵, Cheong J. Lee⁵
From: ¹General Surgery, University of Chicago, Chicago, IL,, ³University of Chicago, Chicago, IL, ^{2,4,5}Northshore University Health system, Evanston, IL
- 11:25 – 11:30 **43. Cost Comparison Of Transcarotid Arterial Revascularization With Carotid Endarterectomy And Transfemoral Carotid Stenting**
- John J. Kanitra**, Isabella Graham, David R. Hayward, Darla Granger, Richard Berg, Jimmy Haouilou
From: Department of General Surgery, Ascension St John Hospital and Medical Center, Detroit, MI

- 11:30 – 11:35 **44. Delay To Transfer Predicts A Worse Prognosis For Uncomplicated Type B Aortic Dissections**
- Nicholas G. Hoell**, Cassandra Beck, Sean P. Lyden, Christopher J. Smolock, Levester Kirksey, Jarrad Rowse, Jon Quatromoni, Francis J. Caputo
From: Cleveland Clinic, Cleveland, OH
- 11:35 – 11:40 **45. Worrisome Trends In The Prevalence Of Diabetic Peripheral Vascular Disease And Its Complications In The United States**
- David Jiang**¹, Kristine Kuchta², Julia Amundson³, Alex Trenk³, Omar Marcos², Benjamin Lind², William Yoon², Alfonso Tafur², Arman Qamar², Cheong Jun Lee²
From: ¹Surgery, University of Chicago Medicine, Chicago, IL, ²NorthShore University Health System, Evanston, IL
- 11:40 – 11:45 **46. Physician-Patient Relationship In Asymptomatic Vascular Consults: Analysis Of Encounters In Academic Practice**
- Abbygale M. Willging**¹, Elvis Castro², Jun Xu³
From: ²University of Iowa Carver College of Medicine, ¹Dept. of Surgery, Division of Vascular Surgery, University of Iowa Hospitals and Clinics, Iowa City, IA
- 11:45 – 11:50 **47. Single-state Trans-carotid Artery Revascularization (TCAR) Experience: Outcomes And Impact Upon Carotid Procedural And Operative Volumes**
- Chinmayee Potti**¹, Farah Mohammad¹, Loay Kabbani², Peter Henke³, Michael Battaglia⁴, Nicolas Mouawad⁵, Nick Osborne³, Matt Corriere⁶, Timothy Nypaver⁷
From: ¹Vascular Surgery, Henry ford hospital, Detroit, MI, ²Henry ford hospital, Detroit, MI, ³University of Michigan, Ann Arbor, MI, ⁴Methods Consultants of Ann Arbor, Ann Arbor, MI, ⁵McLaren Thumb Region Hospital, Bay City, MI, ⁶University of Michigan, Ann Arbor, MI
- 11:50 – 11:55 **48. Wells Clinical Probability And D-Dimer Testing: Risk Stratification For Acute Lower Extremity Deep Vein Thrombosis**
- Kristin Schafer**¹, Eric Goldschmidt¹, Drew Oostra², Fedor Lurie²
From: ¹University of Toledo College of Medicine, ²Jobst Vascular Institute, Toledo, OH
- 11:55 – 12:00 **49. Sex-based Differences In Survival Following Repair Of Ruptured Abdominal Aortic Aneurysm**
- Ayokunle S. Olowofela**, Peter J. Rossi, Abby Rothstein, Joseph P. Hart, Michael J. Malinowski, Brian D. Lewis, Kellie R. Brown, Neel A. Mansukhani
From: Surgery, Division of Vascular Surgery, Medical College of Wisconsin, Milwaukee, WI