

A wide-angle photograph of the Pittsburgh skyline at sunset. The city's skyscrapers, including the PPG Place, are silhouetted against a sky filled with soft, orange and pink clouds. The city lights are beginning to glow, and their reflection is visible on the calm water of the Allegheny River in the foreground.

UPMC LIFE
CHANGING
MEDICINE

2021

Pittsburgh Vascular Symposium

SPONSORED BY

University of Pittsburgh School of Medicine
Center for Continuing Education in the Health Sciences
UPMC Heart and Vascular Institute

COURSE CO-DIRECTORS

Michael J. Singh, MD, FACS, RPVI

Course Co-Director, Pittsburgh Vascular Symposium
Associate Professor of Surgery, Division of Vascular Surgery
UPMC Heart & Vascular Institute
Pittsburgh, PA

Georges Al-Khoury, MD

Course Co-Director, Pittsburgh Vascular Symposium
Assistant Professor of Surgery, Division of Vascular Surgery
UPMC Heart & Vascular Institute
Pittsburgh, PA

Ulka Sachdev, MD

Course Co-Director, Pittsburgh Vascular Symposium
Associate Professor of Surgery, Division of Vascular Surgery
UPMC Heart & Vascular Institute
Pittsburgh, PA

Kimberly G. Anderson, CRNP

Associate Course Director, Pittsburgh Vascular Symposium
Nurse Practitioner, Division of Vascular Surgery
UPMC Heart & Vascular Institute
Pittsburgh, PA

Steven A. Leers, MD, RVT, RPVI, FSVU

Associate Course Director, Pittsburgh Vascular Symposium
Medical Director, UPMC Vascular Laboratories
Professor of Surgery, Division of Vascular Surgery
UPMC Heart & Vascular Institute
Pittsburgh, PA

A smaller version of the Pittsburgh skyline at sunset photograph, showing the city's skyscrapers and the Allegheny River.

October 28-30, 2021

Fairmont Pittsburgh Downtown

Pittsburgh, Pennsylvania

OVERVIEW

This course will provide evaluation and critique of the current and future standards of care in the treatment of the vascular patient with respect to medical management, as well as endovascular and open therapies for the primary care provider, cardiologists, interventionalists, and the vascular surgeon. It continues to focus on new developments in technology, as well as surgical techniques, and will highlight the controversies as well as accepted practices.

OBJECTIVES

At the conclusion of the program, attendees should be able to:

- Explain the current standards of care for aortic and peripheral artery disease processes
- Identify and distinguish the various aspects of a modern vascular medical and surgical practice
- Recognize implications of a new era in health care delivery related to vascular pathology
- Delineate the optimal treatment strategies for patients with extremity arterial diseases, aortic aneurysms, thoracic aortic diseases and dissection, carotid artery stenosis, and varicose veins
- Discuss in detail multiple areas of cardiovascular medicine
- Draw informed clinical decisions in cardiovascular medicine
- Forecast and discuss important issues and trends in cardiovascular medicine
- Assess health locally and regionally by evaluating the quality of medical care and disease prevention.

WHO SHOULD ATTEND

This course is designed for primary care providers, cardiologists, interventionalists, vascular surgeons, and other interested healthcare professionals who provide primary care services.

ACCREDITATION AND CREDIT DESIGNATION

In support of improving patient care, the University of Pittsburgh 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 health care team.

Physician (CME) — The University of Pittsburgh designates this live activity for a maximum of **16.0 AMA PRA Category 1 Credits™**. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Nursing (CNE) — The maximum number of hours awarded for this Continuing Nursing Education activity is **16.0** contact hours.

Other Health Care Professionals — Other health care professionals will receive a certificate of attendance confirming the number of contact hours commensurate with the extent of participation in this activity.

WIRELESS INTERNET CONNECTION INFORMATION

For complimentary wireless internet access during the meeting, attendees should use the Fairmont Meeting wireless network and use the access code **UPMC2021** when prompted.

LOCATION AND ACCOMMODATIONS

The conference will be held in the Grand Ballroom on the second floor of the **Fairmont Pittsburgh Hotel**, located at 510 Market Street, Pittsburgh, PA 15222.

PARKING

Parking is on your own and facilities are available across the street from the Fairmont Pittsburgh Hotel.

SPECIAL NEEDS

Participation by all individuals is encouraged. Advance notification of any special needs will help us provide better service. Please notify us of your needs at least two weeks in advance of the program by emailing byrname@upmc.edu.

VISIT THE UPMC HEART AND VASCULAR INSTITUTE WEBSITE

The UPMC Heart and Vascular Institute invites you to visit our website at UPMC.com/HVI. Learn more about us and receive information about the conditions we treat, treatment options, specialty programs, services, research and education, our experts, patient stories, and locations.



2021 Pittsburgh Vascular Symposium

SCIENTIFIC PROGRAM AGENDA:

THURSDAY, OCTOBER 28, 2021

9:15 am **Registration & Exhibits**

10:00 am **Welcome Remarks**
Michael J. Singh, MD, FACS, RPVI
Georges Al-Khoury, MD
Ulka Sachdev, MD

Session I: APP and Nursing Session

*Moderators: Maryanne Henderson, DO and
Kimberly G. Anderson, CRNP*

10:10 am **Medical management of PVD**
Christine Pellegrini, CRNP

10:20 am **Nutrition support of the vascular patient:
Pre- and post-operatively**
Emily Stasko, RD, LDN, and Melissa Pearson, CRNP

10:30 am **Algorhythmic approach to lower extremity wounds**
Kathryn Reiter, PA-C

10:40 am **Varicose veins: What to treat and how**
Julie Bitner, PA-C

10:50 am **Discussion**

11:00 am **Collaborative care of the amputee**
Maryanne Henderson, DO, Lisa Franz, MPT, and
Lauren Tankesley, PA-C

11:25 am **Devices for lower extremity off-loading:
Foam, shoes, and braces**
Kimberly G. Anderson, CRNP

11:35 am **Lower extremity compression: Standard and
novel approaches**
Elizabeth Zinn, PA-C

11:45 am **Lunch & Exhibits**

12:55 pm **Opening Remarks**
Ulka Sachdev, MD
Michael J. Singh, MD, FACS, RPVI

Session II: Lower Extremity Arterial Disease

*Moderators: Kwame S. Amankwah, MD, Georges Al-Khoury, MD, and
Ulka Sachdev, MD*

1:00 pm **Covered or bare metal stenting for aortoiliac disease?
Evidence and current updates**
Elizabeth Genovese, MD, MS

1:10 pm **Is femoral endarterectomy still the gold standard for
common femoral occlusive disease?**
Catherine Go, MD

1:20 pm **Ballooning, stenting, or bypassing popliteal
occlusions?**
Raymond E. Eid, MD

1:30 pm **Current status of lithotripsy in SFA lesions: Does it
make a difference?**
Misaki M. Kiguchi, MD

1:40 pm **Management of femoropopliteal dissection: Update
on TACK endovascular system**
Kwame S. Amankwah, MD, MSc, FACS, FSVS, RPVI

1:50 pm **Atherectomy outcomes**
Richard E. Redlinger Jr., MD, RPVI, FSVS

2:00 pm **Case Presentation and Discussion**
Kathy Gonzalez, MD

2:30 pm **Break and Exhibits**

Session III: Venous Disease

*Moderators: Eric S. Hager, MD, Ellen D. Dillavou, MD, FACS, and
Misaki M. Kiguchi, MD*

3:00 pm **How my practice has changed since the introduction
of non-thermal techniques for GSV ablation**
Eric S. Hager, MD

3:10 pm **Venous ulceration: Ablate the superficial reflux early
but don't neglect deep reflux or obstruction**
Ellen D. Dillavou, MD, FACS

3:20 pm **What you should know about the novel dedicated
venous stents**
Natalie D. Sridharan, MD

3:30 pm **Infrared thermography and venous disease**
Karim Salem, MD

3:40 pm **PE intervention: Current role and novel techniques**
Misaki M. Kiguchi, MD

3:50 pm **Team approach to PE management: Have PERTs
improved outcomes?**
Efthymios "Makis" Avgerinos, MD, FACS, FEBVS

4:00 pm **Case Presentation and Discussion**
Robert Tahara, MD

4:35 pm **Thursday Adjournment**
Georges Al-Khoury, MD

- 4:45 pm **Cocktail Reception for Vendors and Conference Attendees in Ballroom Foyer**
- 6:30 pm **Dinner for U.S. and International Faculty**
Eddie Merlot's Pittsburgh
Four Gateway Center (Corner of Liberty Ave. and Stanwix St.)
444 Liberty Avenue, Suite #100
Pittsburgh, Pennsylvania 15222
Phone: 412-235-7676

FRIDAY, OCTOBER 29, 2021

- 7:00 am **Continental Breakfast and Registration**
- 7:40 am **Opening Remarks**
Michael J. Singh, MD, FACS, RPVI
Georges Al-Khoury, MD

Session IV: Carotids

Moderators: Brajesh K. Lal, MD, Edith Tzeng, MD, and Michael C. Stoner, MD

- 7:45 am **Best medical treatment for CAD: Can plaques stabilize or even shrink?**
Efthymios "Makis" Avgerinos, MD, FACS, FEBVS
- 7:55 am **Cognitive decline in asymptomatic carotid disease: Can intervention prevent the inevitable?**
Brajesh K. Lal, MD
- 8:05 am **Asymptomatic near occlusion of internal carotid artery: Do I have to intervene?**
Edith Tzeng, MD
- 8:15 am **TCAR update: Evidence, patient selection, and technical pearls**
Michael C. Stoner, MD
- 8:25 am **How do I choose the right patient for the right procedure: CEA vs CAS vs TCAR**
Brajesh K. Lal, MD
- 8:35 am **Urgent CEA timing and patient selection**
Michael C. Madigan, MD
- 8:45 am **Stroke intervention: Advanced techniques and standards of care**
Bradley Gross, MD
- 8:55 am **Case Presentation and Discussion**
Othman Abdul-Malak, MD
- 9:15 am **Break & Exhibits**

Session V: Thoracic Aorta

Moderators: Michael J. Singh, MD, FACS, RPVI, Jean M. Panneton, MD, FRCSC, FACS, and W. Darrin Clouse, MD

- 9:45 am **Arch aneurysms: Choosing the right treatment — open, hybrid, or endovascular**
W. Darrin Clouse, MD
- 9:55 am **Arch thoracic branch devices: Mid-term results**
Michael J. Singh, MD, FACS, RPVI
- 10:05 am **Off the shelf thoracoabdominal branch devices**
Jean M. Panneton, MD, FRCSC, FACS
- 10:15 am **Blunt aortic injuries: TEVAR indications and outcomes**
Kristofer M. Charlton-Ouw, MD, FACS
- 10:25 am **Acute type-B aortic dissection: Optimal timing of repair**
W. Darrin Clouse, MD
- 10:35 am **Chronic type-B dissections: Endovascular treatment options**
Jean M. Panneton, MD, FRCSC, FACS
- 10:45 am **TAAA endovascular treatment: TAMBE results**
Nathan Liang, MD
- 10:55 am **Case Presentation and Discussion**
Amanda R. Phillips, MD

- 11:15 am **Keynote Lecture:**
Endovascular treatment of failed EVAR with F/BEVAR
Darren B. Schneider, MD
Chief, Division of Vascular Surgery and Endovascular Therapy
Perelman School of Medicine, University of Pennsylvania
The Hospital of the University of Pennsylvania
Philadelphia, PA

- 11:45 pm **Lunch & Exhibits**

Session VI: Critical Limb Ischemia

Moderators: Elizabeth Genovese, MD, MS, Georges Al-Khoury, MD, and Steven A. Leers, MD, RVT, RPVI, FSVU

- 1:00 pm **Limb salvage in ESRD patients: Is it worth the effort?**
Steven A. Leers, MD, RVT, RPVI, FSVU
- 1:10 pm **Drug elution: When is it indicated in CLI patients?**
Kwame S. Amankwah, MD, MSc, FACS, FSVS, RPVI
- 1:20 pm **Endovascular first approach for CLI: Does it burn any bridges?**
Elizabeth Genovese, MD, MS
- 1:30 pm **Tibial interventions: Is there a role for stenting?**
Rabih A. Chaer, MD, MSc
- 1:40 pm **Tibial and pedal bypass: Is there a role for alternative conduits in the absence of single segment GSV?**
Lindsey Haga, MD

- 1:50 pm **Building a multidisciplinary limb salvage program**
Georges Al-Khoury, MD
- 2:00 pm **Case Presentation and Discussion**
Mirnal Chaudhary, MD
- 2:20 pm **Break & Exhibits**
- Session VII: Abdominal Aorta**
Moderators: Mohammad H. Eslami, MD, W. Darrin Clouse, MD, and Darren B. Schneider, MD
- 2:50 pm **Aortic neck dilation following EVAR: When is it a concern?**
Michael C. Stoner, MD
- 3:00 pm **Type IA endoleaks: Endovascular options**
Darren B. Schneider, MD
- 3:10 pm **Type IA endoleaks: Open repair options**
Kristofer M. Charlton-Ouw, MD, FACS
- 3:20 pm **Infected endografts: Treatment options and outcomes**
Mohammad H. Eslami, MD
- 3:30 pm **TEVAR and EVAR: The role for IVUS imaging**
Fanny S. Alie-Cusson, MD, FRCSC, RPVI
- 3:40 pm **Durability and fallibility of internal iliac branch devices**
Darren B. Schneider, MD
- 3:50 pm **Case Presentation and Discussion**
Elizabeth Andraska, MD

Session VIII: Dialysis Access

Moderators: Ellen D. Dillavou, MD, FACS and Theodore H. Yuo, MD, MSc

- 4:10 pm **Novel AVG: Advantages and disadvantages**
Theodore H. Yuo, MD, MSc
- 4:20 pm **Vein mapping for dialysis access: Do we need it?**
Ryan McEnaney, MD
- 4:30 pm **Management options for central venous stenosis and occlusion**
Ellen D. Dillavou, MD, FACS
- 4:40 pm **Percutaneous AVF: Why, when, who?**
Theodore H. Yuo, MD, MSc
- 4:50 pm **Peritoneal dialysis**
Ulka Sachdev, MD
- 5:00 pm **Case Presentation and Discussion**
Mitchell Dyer, MD
- 5:20 pm **Friday Adjournment**
Ulka Sachdev, MD

- 7:00 pm **Dinner for U.S. and International Faculty**
Hyde Park Prime Steakhouse
247 North Shore Drive
Pittsburgh, PA 15212
Phone: 412-222-4014

- 7:15 am **Continental Breakfast and Registration**
- 8:00 am **RPVI Review Course — Welcome and Opening Remarks**
Steven A. Leers, MD, RVT, RPVI, FSVU
- 8:10 am **Physics I**
Frank Miele, MSEE
- 8:30 am **Transducers and flow direction**
Hanna Kruk
- 8:40 am **Cerebrovascular testing**
Heather L. Gornik, MD, RVT, RPVI
- 9:00 am **Waveform bootcamp**
Steven A. Leers, MD, RVT, RPVI, FSVU and Heather L. Gornik, MD, RVT, RPVI
- 9:15 am **Venous: DVT and reflux testing**
Amanda Grealish
- 9:30 am **Refreshment Break**
- 9:50 am **Physics II**
Frank Miele, MSEE
- 10:10 am **PAD testing: Physiologic and duplex**
Amy L. Steinmetz, RDMS, RVT
- 10:30 am **PAD testing: Case studies**
Heather L. Gornik, MD, RVT, RPVI and Amy L. Steinmetz, RDMS, RVT
- 10:50 am **Visceral testing**
Steven A. Leers, MD, RVT, RPVI, FSVU
- 11:10 am **Surveillance after intervention**
Heather L. Gornik, MD, RVT, RPVI
- 11:30 am **Post-EVAR duplex**
Amanda Grealish
- 11:50 am **Panel discussion and questions**
Moderator: Steven A. Leers, MD, RVT, RPVI, FSVU
- Noon **Conference Adjournment**

FACULTY

U.S. GUEST FACULTY

Kwame S. Amankwah, MD, MSc, FACS, FSVS, RPVI

Chief, Vascular and Endovascular Surgery
University of Connecticut
Farmington, CT

Kristofer M. Charlton-Ouw, MD, FACS

Gulf Coast Vascular, HCA Houston Healthcare
HCA Gulf Coast Division Medical Director, Vascular Surgery
Clinical Professor, Departments of Clinical and Biomedical Sciences
University of Houston College of Medicine
Houston, TX

W. Darrin Clouse, MD

Chief, Vascular & Endovascular Surgery
Professor of Surgery
University of Virginia
Charlottesville, VA

Ellen D. Dillavou, MD, FACS

Associate Professor, Division of Vascular Surgery
Duke University Medical Center
Duke Regional Hospital
Durham, NC

Elizabeth Genovese, MD, MS

Assistant Professor of Surgery
Division of Vascular Surgery
Medical University of South Carolina
Charleston, SC

Heather L. Gornik, MD

Co-Director, Vascular Center
University Hospitals Harrington Heart & Vascular Institute
Professor of Medicine, Case Western Reserve University
Cleveland, OH

Misaki M. Kiguchi, MD

Vascular Surgeon
MedStar Heart and Vascular Institute
MedStar Georgetown University Hospital
Washington, DC

Brajesh K. Lal, MD

Professor, Vascular Surgery, University of Maryland
School of Medicine
Chief, Vascular Service, Baltimore VA Medical Center
Director, Center for Vascular Research, University of Maryland
Baltimore, MD

Frank Miele, MSEE

Pegasus Lectures, Inc.
Dallas, TX

Jean M. Panneton, MD, FRCSC, FACS

Professor of Clinical Surgery
Vascular Surgery Chief & Program Director
Eastern Virginia Medical School
Norfolk, VA

Darren B. Schneider, MD

Chief, Division of Vascular Surgery and Endovascular Therapy
Perelman School of Medicine, University of Pennsylvania
The Hospital of the University of Pennsylvania
Philadelphia, PA

Michael C. Stoner, MD

Professor and Chief, Division of Vascular Surgery
Vice Chair Operations, Department of Surgery
University of Rochester
Rochester, NY

LOCAL FACULTY

Othman Abdul-Malak, MD

Vascular Surgery Resident
Division of Vascular Surgery

Fanny S. Alie-Cusson, MD, FRCSC, RPVI

Assistant Professor of Surgery
Division of Vascular Surgery

Georges Al-Khoury, MD

Assistant Professor of Surgery
Division of Vascular Surgery

Kimberly G. Anderson, CRNP

Nurse Practitioner
Division of Vascular Surgery

Elizabeth Andraska, MD

Vascular Surgery Resident
Division of Vascular Surgery

Efthymios “Makis” Avgerinos, MD, FACS, FEBVS

Associate Professor of Surgery
Division of Vascular Surgery

Julie Bitner, PA-C

Physician Assistant
Division of Vascular Surgery

Rabih A. Chaer, MD, MSc

Residency and Fellowship Program Director
Professor of Surgery
Division of Vascular Surgery

Mirnal Chaudhary, MD

Vascular Surgery Fellow
Division of Vascular Surgery

Mitchell Dyer, MD

Vascular Surgery Fellow
Division of Vascular Surgery

Raymond E. Eid, MD

Assistant Professor of Surgery
Division of Vascular Surgery

Mohammad H. Eslami, MD

Professor of Surgery
Division of Vascular Surgery

Lisa Franz, MPT

Physical Therapist
Facility Director, UPMC Mercy South Side Outpatient Center
UPMC Centers for Rehab Services

Catherine Go, MD

Assistant Professor of Surgery
Division of Vascular Surgery

Kathy Gonzalez, MD

Vascular Surgery Resident
Division of Vascular Surgery

Amanda Grealish

Peripheral Vascular Lab Technologist
Division of Vascular Surgery

Bradley Gross, MD

Assistant Professor
Director of Endovascular Neurosurgery
Department of Neurological Surgery

Lindsey Haga, MD

Assistant Professor of Surgery
Division of Vascular Surgery

Eric S. Hager, MD

Associate Professor of Surgery
Division of Vascular Surgery

Maryanne Henderson, DO

Assistant Professor
Department of Physical Medicine and Rehabilitation

Hanna Kruk

Peripheral Vascular Lab Technologist
Division of Vascular Surgery

Steven A. Leers, MD, RVT, RPVI, FSVU

Medical Director, UPMC Vascular Laboratories
Professor of Surgery
Division of Vascular Surgery

Nathan Liang, MD

Assistant Professor of Surgery
Division of Vascular Surgery

Michael C. Madigan, MD

Assistant Professor of Surgery
Division of Vascular Surgery

Michel S. Makaroun, MD

Co-Director, UPMC Heart and Vascular Institute
Professor and Chair
Division of Vascular Surgery

Ryan McEnaney, MD

Assistant Professor of Surgery
Division of Vascular Surgery

Melissa Pearson, CRNP

Nurse Practitioner
Division of Vascular Surgery

Christine Pellegrini, CRNP

Nurse Practitioner
Division of Vascular Surgery

Amanda R. Phillips, MD

Vascular Surgery Resident
Division of Vascular Surgery

Richard E. Redlinger Jr., MD, RPVI, FSVS

Vascular Surgeon
Heritage Valley Health System
Beaver, PA

Kathryn Reiter, PA-C

Physician Assistant
Division of Vascular Surgery

Ulka Sachdev, MD

Associate Professor of Surgery
Division of Vascular Surgery

Karim Salem, MD

Assistant Professor of Surgery
Division of Vascular Surgery

Michael J. Singh, MD, FACS, RPVI

Associate Professor of Surgery
Division of Vascular Surgery

Natalie D. Sridharan, MD

Assistant Professor of Surgery
Division of Vascular Surgery

Emily Stasko, RD, LDN

Dietician, Food & Nutrition Services
UPMC Presbyterian Shadyside

Amy L. Steinmetz, RDMS, RVT

Peripheral Vascular Lab Technologist
Division of Vascular Surgery

Robert Tahara, MD

Attending Surgeon in Vascular Surgery
Bradford Regional Medical Center
Director, Allegheny Vein & Vascular
Bradford, PA

Lauren Tankesley, PA-C

Physician Assistant
Division of Vascular Surgery

Edith Tzeng, MD

Professor of Surgery
Division of Vascular Surgery

Theodore H. Yuo, MD, MSc

Assistant Professor of Surgery
Division of Vascular Surgery

Elizabeth Zinn, PA-C

Physician Assistant
Division of Vascular Surgery

Local faculty members are affiliated with the University of Pittsburgh School of Medicine and/or UPMC and reside in the Pittsburgh, PA area unless otherwise identified.

VISIT THE UPMC CENTER FOR CONTINUING EDUCATION IN THE HEALTH SCIENCES WEBSITE

The UPMC Center for Continuing Education in the Health Sciences invites you to visit our website at <https://cce.upmc.com>. Receive information on CME programs, earn CME credits on the Internet, and access information about our formal courses and much more. Discover who we are and how you can contact us. Please visit our web location often to get updated information on upcoming programs.

FACULTY DISCLOSURES

All individuals in a position to control the content of this education activity including members of the planning committee, speakers, presenters, authors, and/or content reviewers have disclosed all relevant financial relationships with any proprietary entity producing, marketing, re-selling, or distributing health care goods or services, used on, or consumed by, patients.

The following relevant financial relationships were disclosed:

Kristofer M. Charlton-Ouw, MD, FACS is a consultant with W.L. Gore and Associates, Inc. and Medtronic, Inc.

Ellen D. Dillavou, MD, FACS is a consultant with WL Gore, Angiodynamics, 3M/KCI, and Inari. Dr. Dillavou also sits on the Scientific Advisory Board for Boston Scientific and the Board of Directors for IAC.

Elizabeth Genovese, MD, MS is a consultant with Penumbra, Cook Medical, and Philips.

Heather L. Gornik, MD is a board member for IAC Vascular Testing.

Bradley Gross, MD is a consultant with Medtronic, Inc. and Microvention.

Misaki M. Kiguchi, MD participates on the CE Speakers' Bureau for Medtronic, Inc.

Michel S. Makaroun, MD receives grant/research support from Medtronic, Inc. and WL Gore. Dr. Makaroun is also a consultant for Medtronic, Inc., WL Gore and Kowa Research Institute.

Jean M. Panneton, MD, FRCSC, FACS receives grant/research support from Terumo Aortic, Cook Medical, Medtronic, Inc., and WL Gore. Dr. Panneton is also a consultant for Medtronic, Inc., WL Gore, Terumo Aortic, Mellon Medical, and Getinge. Dr. Panneton participates on the CE Speakers' Bureau for Terumo Aortic, Medtronic, Inc., Volcano Corp., and WL Gore.

Darren B. Schneider, MD receives grant/research support from WL Gore and Cook Medical and is a consultant with WL Gore, Cook Medical, Medtronic, Penumbra, Boston Scientific, and Abbott.

Michael C. Stoner, MD received Grant / Research Support from Silk Road Medical and is a consultant for Silk Road Medical and Terumo Aortic.

Theodore H. Yuo, MD, MSc is a consultant with Becton Dickinson.

No other planners, members of the planning committee, speakers, presenters, authors, content reviewers and/or anyone else in a position to control the content of this education activity have relevant financial relationships to disclose.

The information presented at this CME program represents the views and opinions of the individual presenters, and does not constitute the opinion or endorsement of, or promotion by, the UPMC Center for Continuing Education in the Health Sciences, UPMC / University of Pittsburgh Medical Center or Affiliates and University of Pittsburgh School of Medicine. Reasonable efforts have been taken intending for educational subject matter to be presented in a balanced, unbiased fashion and in compliance with regulatory requirements. However, each program attendee must always use his/her own personal and professional judgment when considering further application of this information, particularly as it may relate to patient diagnostic or treatment decisions including, without limitation, FDA-approved uses and any off-label uses.

For additional information, contact the Event Manager, Mark Byrne, at **412-802-3031** or via email at byrneme@upmc.edu.

ACKNOWLEDGEMENT OF COMMERCIAL SUPPORT

*We gratefully acknowledge the following
for their generous support:*

EDUCATIONAL GRANTS

Abbott Laboratories

Boston Scientific Corporation

Cook Medical, LLC

GE Healthcare Inc.

Medtronic, PLC

W.L. Gore & Associates, Inc.

EXHIBITORS

Abbott Vascular

AngioDynamics

B. Braun Interventional Systems Inc.

BD

Boston Scientific Corporation

Cook Medical

ēlizur

Endologix

Getinge

Gore & Associates

Janssen

Medtronic, Inc.

Misonix

Penumbra, Inc.

Philips Image Guided Therapy Devices

Silk Road Medical

Smith & Nephew, Inc.

Tactile Medical

Terumo Aortic

Union Orthotics & Prosthetics Co. &
De La Torre Orthotics & Prosthetics Co.

Urgo Medical

SAVE THE DATE

2 0 2 2

Pittsburgh

Vascular

Symposium

**Thursday, May 19 —
Saturday, May 21, 2022**

Fairmont Pittsburgh Downtown

510 Market Street

Pittsburgh, PA 15222

UPMC **LIFE
CHANGING
MEDICINE**

Registration will be available in 2022.

For more information, please contact

Mark Byrne at byrneme@upmc.edu.