

# **M Northwestern Medicine®** Feinberg School of Medicine

Northwestern Medicine® is the shared vision that joins Northwestern Memorial HealthCare and Northwestern University Feinberg School of Medicine in a collaborative effort to transform medicine through quality healthcare, academic excellence and scientific discovery.

Northwestern University  
Division of Vascular Surgery  
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Chicago, IL 60611

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**InterContinental Chicago | Chicago, Illinois**



# 45th Annual Northwestern Vascular Symposium

DECEMBER 9-11, 2021

InterContinental Chicago  
Chicago, Illinois

SPONSORED BY:

**M Northwestern Medicine**<sup>®</sup>  
Feinberg School of Medicine

Northwestern University  
Feinberg School of Medicine  
Division of Vascular Surgery and  
The Office of Continuing Medical Education

# PROGRAM INFORMATION

## TARGET AUDIENCE

Vascular surgeons, radiologists, cardiac surgeons, cardiologists and general surgeons who treat vascular disease. Also, current trainees in these disciplines and advanced practice providers in these areas of study.

## EDUCATIONAL OBJECTIVES:

At the conclusion of the Northwestern Vascular Symposium, participants will be able to:

1. Discuss new information about treatment of lower extremity venous disease
2. Evaluate limitations of EVAR
3. Demonstrate treatment options for visceral and renal artery aneurysm and occlusive disease
4. Evaluate new developments in management of complex venous disease
5. Relay information about latest development in treatment of thoracoabdominal aortic aneurysm disease
6. List current treatment recommendations for extra-cranial carotid and supra-aortic trunk arterial occlusive disease
7. Discuss the growing application of TEVAR for thoracic aortic pathology
8. Recall information on the latest in treatment of upper extremity vascular disease
9. Describe expected outcomes of lower extremity revascularization for arterial occlusive disease following open surgical and endovascular techniques
10. Discuss new trends in dialysis access surgery
11. Describe the role and importance of vascular surgery medicine in comprehensive clinical care
12. Evaluate the best practices for quality care
13. Review changes to new and upcoming procedural and outpatient coding and billing

## CONFERENCE LOCATION

The program will be held at the InterContinental Chicago, 505 N. Michigan Avenue, Chicago, Illinois. Please contact the hotel directly at (312) 944-4100 for directions and parking information.

## HOTEL ACCOMMODATIONS

A block of rooms has been reserved at the InterContinental Chicago for a special rate of \$169 (plus tax) for single or double occupancy in the Main Building. Participants are responsible for making their own hotel reservations. Guests may register online by accessing the following link: [Annual Northwestern Vascular Symposium](#). Otherwise, guests can call central reservations and state the group's name to book their rooms like before by calling **1-800-628-2112**. Please identify yourself as a registrant of 45th Annual Northwestern Vascular Symposium to receive the reduced room rate. Room reservations made after November 17, 2021 are subject to availability at regular hotel rates.

Chicago is a popular vacation and convention destination. We recommend that you make your reservations as soon as possible in order to guarantee accommodations.

## ACCREDITATION STATEMENT

The Northwestern University Feinberg School of Medicine is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

## CREDIT DESIGNATION

The Northwestern University Feinberg School of Medicine designates this live activity for a maximum of 21.25 *AMA PRA Category 1 Credits™*. Physicians should claim only credit commensurate with the extent of their participation in the activity.

## REFUNDS

Cancellations must be made in writing to the Office of Continuing Medical Education. The paid registration fee, minus a \$50 administrative charge, will be refunded. No refunds will be granted after December 1, 2021.

## SPECIAL NEEDS

The Feinberg School of Medicine fully intends to comply with the legal requirements of the American with Disabilities Act. If any participant of this conference is in need of accommodation, please indicate those needs on the registration form or submit written requests to the Office of CME at least one month prior to the conference date.

## FACULTY DISCLOSURES

Speakers are required to disclose any significant relationships with commercial companies prior to the symposium. The course syllabus will identify any significant relationships.

## ADDITIONAL INFORMATION

Contact the Office of Continuing Medical Education, Northwestern University Feinberg School of Medicine, phone: 312-503-8533, fax: 312-503-4531, e-mail: [cme@northwestern.edu](mailto:cme@northwestern.edu) or visit our website at <https://northwestern.cloud-cme.com/course/courseoverview?P=O&EID=81164>. Please note: Credit card payments cannot be accepted for phone, postal mail or for on-site registrations. If you plan to register on-site, please bring a check made payable to "Northwestern University".

# FACULTY

### COURSE DIRECTOR:

Mark K. Eskandari, MD

### SPEAKERS

**Cherrie Z. Abraham, MD**

Oregon Health & Science University

**Ali F. AbuRahma, MD**

West Virginia University

**Frank Arko III, MD**

Sanger Heart & Vascular Institute

**Bernadette Aulivola, MD, MS**

Loyola University of Chicago  
Stritch School of Medicine

**M. Reza Azarpazoo, MD**

University of Western Ontario

**Hernan A. Bazan, MD**

Oschner Clinic

**Kellie R. Brown, MD**

The Medical College of Wisconsin

**O. William Brown, MD, JD**

Oakland University/William  
Beaumont Hospital of Medicine

**Kristofer M. Charlton-Ouw, MD**

University of Houston College of  
Medicine

**Jill J. Colglazier, MD**

Mayo Clinic College of Medicine

**Mark F. Conrad, MD, MMSc**

Harvard Medical School

**Michael S. Conte, MD**

University of California @ San  
Francisco

**Alan Dardik, MD, PhD**

Yale School of Medicine

**R. Clement Darling III, MD**

Albany Medical College

**Audra A. Duncan, MD**

Western University  
London Health Sciences Centre

**Yazan Duwayri, MD**

Emory University School of Medicine

**Jens Eldrup-Jorgensen, MD**

Tufts University School of Medicine

**Ignacio Escotto, MD**

University of Mexico

**Mohammad H. Eslami, MD, MPH**

University of Pittsburgh Medical  
School

**Rumi Faizer, MD**

University of Minnesota

**Alik Farber, MD, MBA**

Boston University School of Medicine

**Peter L. Faries, MD**

Icahn School of Medicine  
Mount Sinai Hospital

**Katherine A. Gallagher, MD**

University of Michigan

**Manuel Garcia-Toca, MD, MS**

Stanford University

**Peter Gloviczki, MD**

Gonda Vascular Center  
Mayo Clinic

**Philip P. Goodney, MD, MS**

Dartmouth Hitchcock Medical Center

**Karen J. Ho, MD**

Northwestern University  
Feinberg School of Medicine

**Andrew W. Hoel, MD**

Northwestern University  
Feinberg School of Medicine

**Thomas S. Huber, MD, PhD**

University of Florida College of  
Medicine

**Jeffrey Jim, MD, MPH**

Minneapolis Heart Institute  
Abbott Northwestern Hospital

**Manju Kalra, MBBS**

Mayo Clinic

**Peter F. Lawrence, MD**

Ronald Reagan UCLA Medical Center  
University of California Los Angeles

**Scott A. LeMaire, MD**

Stanford University

**Timothy Liem, MD**

Oregon Health & Science University

**Thomas S. Maldonado, MD**

New York University  
Langone Health

**Walter J. McCarthy, MD, MS**

Rush University Medical Center

**Mary M. McDermott, MD**

Northwestern University  
Feinberg School of Medicine

**Jahan Mohebbi, MD, MPH**

Harvard Medical School

**Patrick E. Muck, MD**

Good Samaritan Hospital

**Christian J. Ochoa, MD**

Keck School of Medicine  
University of Southern California

**William H. Pearce, MD**

Northwestern University  
Feinberg School of Medicine

**Juan Carlo Parodi, MD, PhD**

University of Buenos Aires

**Heron E. Rodriguez, MD**

Northwestern University  
Feinberg School of Medicine

**Vincent L. Rowe, MD**

Keck School of Medicine  
University of Southern California

**Salvatore T. Scali, MD**

University of Florida College of  
Medicine

**Sherene Shalhub, MD, MPH**

University of Washington School of  
Medicine

**Malachi Sheahan III, MD**

Louisiana State University

**Matthew Sideman, MD**

UT Health San Antonio

**Michael J. Singh, MD**

University of Pittsburgh Medical  
Center

**Jeffrey J. Siracuse, MD, MBA**

Boston Medical Center  
Boston University

**Rami Tadros, MD**

Mount Sinai Hospital

**Tadaki M. Tomita, MD**

Northwestern University  
Feinberg School of Medicine

**Ashley Vavra, MD, MS**

Northwestern University  
Feinberg School of Medicine

**Karen Woo, MD, MS**

David Geffen School of Medicine  
University of California Los Angeles

**Houssam K. Younes, MD**

Cleveland Clinic Abu Dhabi

## PROGRAM DESCRIPTION

Welcome to our 45th Annual Northwestern Vascular Symposium, a notable achievement for an institutional surgical specialty meeting. In spite of the one year postponement due to the pandemic, we are excited to come together again for this education event. The 2.5 day course provides 21.25 *AMA PRA Category 1 Credit(s)*<sup>™</sup>, maintenance of certification (MOC) credits, and a hardcover textbook authored by the participating faculty. We have brought together over 50 international experts in their respective fields of vascular care who have contributed an up-to-date written chapter that accompanies their corresponding 15-minute presentation. As has been the tradition, we have selected speakers based on recent peer-reviewed publications, national societal presentations, and/or recognized leaders in their discipline. The program provides a comprehensive analysis of the current management of vascular disease as it relates to treatment of extracranial cerebrovascular and supra-aortic trunk disease, new approaches to lower extremity arterial and venous problems, recent cutting-edge developments in open and endovascular approaches to treat aortic and visceral arterial disease, as well as novel techniques for hemodialysis access, complex venous problems, upper extremity disorders. Concluding each session, a 30-minute panel discussion will occur allowing the audience ample time to ask more in-depth questions of the experts.

A long-standing tradition of our program has been the inclusion of several short case presentations given by the Northwestern faculty during the continental breakfast on Friday and Saturday mornings. We recognize the educational value of this interactive experience and invite the audience to participate along with our panelists.

In addition to the CME and MOC credits, registration for the meeting includes a daily continental breakfast, lunch, refreshments, and the hardcover textbook.

We look forward to having you join us in Chicago during this festive time of year and celebrating 45 years of knowledge sharing started by the pioneers Drs. Bergan and Yao.

## AGENDA

### THURSDAY, DECEMBER 9, 2021

- 7:00 a.m. **Registration and Continental Breakfast**
- 7:20 a.m. **Welcome and Introduction**  
Mark K. Eskandari, MD
- 7:25 a.m. **45th Anniversary of the Northwestern Vascular Symposium—A Reflection**  
William H. Pearce, MD
- 7:35 a.m. **SVS History Working Group: Rise of Endovascular Aortic Surgery**  
Walter J. McCarthy, MD, MS

#### ■ Abdominal Aortic Diseases

- Moderator:* Mark K. Eskandari, MD
- 8:00 a.m. **Fluoroquinolones And Aortic Disease: What Is The Evidence?**  
Scott A. LeMaire, MD
  - 8:15 a.m. **Methods To Reduce Anastomotic Degeneration After Open Juxtarenal Repair**  
Mark F. Conrad, MD, MMsc
  - 8:30 a.m. **Superficial Femoral Artery Access As An Alternative For Percutaneous EVAR**  
Rumi Faizer, MD
  - 8:45 a.m. **EVAR For Ruptured AAA: Step-By-Step Approach From Call To Discharge**  
R. Clement Darling III, MD
  - 9:00 a.m. **Improving Screening Criteria And Public Communication For AAA**  
Malachi G. Sheahan III, MD
  - 9:15 a.m. **Panel Discussion**
  - 9:45 a.m. **Refreshment Break and Exhibits**

#### ■ Thoracic/Thoracoabdominal Aortic Diseases

- Moderator:* Heron E. Rodriguez, MD
- 10:00 a.m. **Tips And Tricks For Thoracofemoral Bypass**  
Thomas S. Huber, MD, PhD
  - 10:15 a.m. **Open Thoracoabdominal Aneurysm Repair: Surgical Technique And Lessons Learned**  
Jahan Mohebbali, MD, MPH
  - 10:30 a.m. **Current Algorithm For Managing Acute Uncomplicated Type B Aortic Dissections**  
Rami O. Tadros, MD
  - 10:45 a.m. **Managing False Lumen Flow After TEVAR For Acute Type B Aortic Dissection**  
Cherrie Z. Abraham, MD
  - 11:00 a.m. **How Close Are We To An Ascending Aortic Stent Graft For Acute Type A Dissections?**  
Kristofer M. Charlton-Ouw, MD

11:15 a.m. **Percutaneous Upper Extremity Access For Complex Aortic Procedures**

Ignacio Escotto Sanchez, MD

11:30 a.m. **Restenosis After CEA And CAS: Incidence And Management Options**

Ali F. AbuRahma, MD

11:45 a.m. **Panel Discussion**

12:00 p.m. **Luncheon - Camelot Room**

## ■ **Complex Arterial And Venous Diseases**

*Moderator:* Andrew W. Hoel, MD

1:30 p.m. **Diagnosis And Management Of Vascular Ehlers-Danlos Syndrome**  
Sherene Shalhub, MD, MPH

1:45 p.m. **Contemporary Management Of Aorto-Enteric Fistulas: Lessons From The VLFDC**

Peter F. Lawrence, MD

2:00 p.m. **Complications Of Stenting For Nutcracker Syndrome**

Peter Gloviczki, MD

2:15 p.m. **Current Management Of Acute Mesenteric Venous Thrombosis**

Audra A. Duncan, MD

2:30 p.m. **Leiomyosarcoma Of The IVC: Choosing The Right Conduit And Size**

Karen Woo, MD, MS

2:45 p.m. **Advances In Anterior Lumbar Spine Exposure For Interbody Fusion**

Christian Ochoa, MD

3:00 p.m. **Panel Discussion**

3:15 p.m. **Refreshment Break and Exhibits**

## ■ **Vascular Access**

*Moderator:* Ashley K. Vavra, MD, MS

3:30 p.m. **Complete Versus Partial Excision Of Infected Arteriovenous Graft: Does Remnant Graft Impact Outcomes?**

Alik Farber, MD, MBA

3:45 p.m. **Do Tapered Arteriovenous Grafts Make A Difference In Outcomes?**

Jeffrey J. Siracuse MD, MBA

4:00 p.m. **Oakes Salvage Procedure To Preserve Brescia-Cimino Arteriovenous Fistula**

Manuel Garcia-Toca, MD, MS

4:15 p.m. **Does An Ipsilateral Tunneled Dialysis Catheter Impact Arteriovenous Fistula Maturation?**

Houssam K. Younes, MD

4:45 p.m. **Hand Ischemia After Arteriovenous Access Creation: Diagnosis And Treatment**

Salvatore T. Scali, MD

5:00 p.m. **Panel Discussion**

5:15 p.m. **Adjourn**

## **FRIDAY, DECEMBER 10, 2021**

*Moderator:* Heron E. Rodriguez, MD

7:00 a.m. **Case Presentations and Continental Breakfast**

## ■ **Current Issues In Vascular Surgery**

*Moderator:* Mark K. Eskandari, MD

8:00 a.m. **Informing Patients About Aortic Surgery: The Health Literacy Gap**  
Philip P. Goodney, MD, MS

8:15 a.m. **Why Join The Vascular Quality Initiative?**

Jens Eldrup-Jorgensen, MD

8:30 a.m. **Physicians And Medical Innovation: How To Maintain Your Intellectual Property**

Juan C. Parodi, MD

8:45 a.m. **How To Prepare For A Deposition**

O. William Brown, MD, JD

9:00 a.m. **Important New Codes For The 2020's**

Matthew J. Sideman, MD

9:15 a.m. **Panel Discussion**

9:45 a.m. **Refreshment Break and Exhibits**

## ■ **Lower Extremity Venous Disease**

*Moderator:* Ashley K. Vavra, MD, MS

10:00 a.m. **Open Surgical Removal Of Perforating IVC Filters**  
Timothy K. Liem, MD

10:15 a.m. **Durability Of Venous Ablation Techniques**

Bernadette Aulivola, MD, MS

10:30 a.m. **Should All Saphenous Vein Recanalizations Be Treated?**

Kellie R. Brown, MD

10:45 a.m. **Popliteal Venous Aneurysms: When And How To Treat**

Heron E. Rodriguez, MD

11:00 a.m. **Choosing The Ideal Venous Stent For Occlusive Iliac And Venacaval Occlusions**

Patrick Muck, MD

11:15 a.m. **Panel Discussion**

11:30 a.m. **Refreshment Break and Exhibits**

*Moderator:* Karen J. Ho, MD

12:00 p.m. **Case Presentations and Luncheon**

## ■ Vascular Medicine

*Moderator:* Tadaki M. Tomita, MD

- 1:30 p.m. **Managing Periprocedural Glucose In The Vascular Population**  
Yazan Duwayri, MD
- 1:45 p.m. **Value Of Low Dose Rivaroxaban For Vascular Patients**  
Michael S. Conte, MD
- 2:00 p.m. **Optimal Medical Treatment For Asymptomatic Carotid Stenosis**  
Reza Azarpazhooh, MD
- 2:15 p.m. **Update On Medical And Exercise Programs For Claudication**  
Mary M. McDermott, MD
- 2:30 p.m. **Impact Of The Microbiome On Vascular Disease**  
Karen J. Ho, MD
- 2:45 p.m. **Panel Discussion**
- 3:15 p.m. **Refreshment Break and Exhibits**

## ■ Lower Extremity Arterial Disease

*Moderator:* Karen J. Ho, MD

- 3:30 p.m. **Popliteal Aneurysm Repair: Should Endovascular Exclusion Be First Line Therapy?**  
Tadaki M. Tomita, MD
- 3:45 p.m. **Surgical Treatment Of Functional Popliteal Artery Entrapment Syndrome**  
Katherine A. Gallagher, MD
- 4:00 p.m. **Improving The Outcomes Of Vein Grafts: A View From The Molecular Level**  
Alan Dardik, MD, PhD
- 4:15 p.m. **Is It Really Mandatory To Harvest Contralateral Saphenous Vein For Traumatic Arterial Injuries?**  
Vincent L. Rowe, MD
- 4:30 p.m. **Retrograde Pedal Access For Treatment Of Critical Limb Ischemia**  
Hernan A. Bazan, MD
- 4:45 p.m. **Percutaneous Aspiration Thrombectomy For Acute Limb Ischemia: When And How?**  
Frank R. Arko III, MD
- 5:00 p.m. **Panel Discussion**
- 5:15 p.m. **Adjourn**

## SATURDAY, DECEMBER 11, 2021

*Moderator:* Heron E. Rodriguez, MD

- 7:00 a.m. **Case Presentations and Continental Breakfast**

## ■ Upper Extremity And Supra-Aortic Trunk Disease

*Moderator:* Tadaki M. Tomita, MD

- 8:00 a.m. **Equipment And Technical Tips For Transaxillary TOS Decompression**  
Ashley K. Vavra, MD, MS
- 8:15 a.m. **Treating Pectoralis Minor Syndrome**  
Michael J. Singh, MD
- 8:30 a.m. **Surgical And Endovascular Options For Superior Vena Cava Syndrome**  
Manju Kalra, MBBS
- 8:45 a.m. **Technical Tips For A Successful Aorto-Innominate Bypass**  
Jill Johnstone Colglazier, MD
- 9:00 a.m. **Contemporary Management Of The Aberrant Subclavian Artery**  
Andrew W. Hoel, MD
- 9:15 a.m. **Panel Discussion**
- 9:45 a.m. **Refreshment Break and Exhibits**

## ■ Cerebrovascular Disease

*Moderator:* Mark K. Eskandari, MD

- 10:00 a.m. **Clinical Significance Of Vertebral Artery Flow Reversal On Duplex**  
Thomas S. Maldonado, MD
- 10:15 a.m. **Timing Of CEA After Acute Stroke**  
Mohammed H. Eslami, MD, MPH
- 10:30 a.m. **Is There Still A Role For Transfemoral Carotid Stenting?**  
Peter L. Faries, MD
- 10:45 a.m. **TCAR: Anatomic Considerations And Technical Tips For Success**  
Jeffrey Jim, MD, MPhS
- 11:00 a.m. **Panel Discussion**
- 12:00 p.m. **Closing Comments**  
Mark K. Eskandari, MD

