



THE C^{VEINS}

Venous Endovascular INterventional Strategies

OCTOBER 30 – 31, 2022 • WYNN LAS VEGAS

Vascular InterVentional Advances



CELEBRATING 20 YEARS OF ENDOVASCULAR EDUCATION

OCTOBER 31 – NOVEMBER 3, 2022 • WYNN LAS VEGAS

THE GLOBAL EDUCATION COURSES FOR
VASCULAR MEDICINE AND INTERVENTION

The VIVA Foundation is a not-for-profit
organization dedicated to vascular
education and research

viva-foundation.org



TWO DECADES OF EXCELLENCE

In 2022, VIVA celebrates its 20th year of defining innovation in vascular medicine and intervention. VIVA22 offers a week of comprehensive education for specialists involved in the care of patients with vascular disease. For this milestone year, VIVA attendees will experience an incredible symposium, including presentations from a world-renowned, multispecialty faculty; extended concurrent and pre-course sessions; state-of-the-art technology; and an unmatched spirit of collegiality and camaraderie. We are proud to once again bring together a faculty that challenges attendees to critically evaluate evolving trends and to remain at the forefront of the vascular field.

After the past two years of hosting VIVA in the context of the COVID-19, both virtually and in person, we remain mindful of how fortunate we are to return to a live conference in Las Vegas. We look forward to convening with the VIVA community once again, joining together with gratitude toward all healthcare providers who have worked to care for others during this time.

Since 2003, VIVA has focused intently on keeping the annual conference innovative and fresh, while remaining devoted to our mission of improving patient outcomes, through practical sessions that include disruptive technologies, hands-on education, and live case demonstrations. We're especially excited to present a series of talks on the Global Theater stage about improving care in vulnerable populations.

VIVA brings together attendees and faculty from vascular surgery, interventional cardiology, interventional radiology, vascular medicine, neurointervention/neurosurgery, and cardiothoracic surgery, offering intimate access to the best minds in endovascular care. This year VIVA also invites our attendees to take an active role in the agenda by submitting cases, expanding our ongoing efforts to center patients in our education and keep live interaction at the forefront of our conference. This special session offers a roundtable forum for the VIVA Board of Directors, faculty members, and your colleagues to discuss your case.

With so many opportunities to learn, interact, and engage, attendees are guaranteed an unparalleled educational experience. As one attendee stated, "If you haven't been to VIVA lately, you haven't been to VIVA!"

We invite you to celebrate our 20th anniversary at Wynn Las Vegas for the premier vascular education event of the year. Please visit viva-foundation.org to learn more about the VIVA Foundation's not-for-profit efforts in advocacy, research, and education, and to register for VIVA and The VEINS 2022.



A handwritten signature of Joshua A. Beckman, MD, in black ink.

Joshua A. Beckman, MD
VIVA Board President

2022 SESSION HIGHLIGHTS:

- Cutting-edge clinical trials
- CLTI, Aortic, and Pharmacorx Pre-courses
- Cases, cases, and more cases in Strategies on the Frontline
- Hot topic discussions in the Roundtable
- Cadaver Lab and Simulator Showcase
- World Insights, offering fresh international perspectives

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TUITION RATE DEADLINES

Industry registration will open on August 1.
Learn more on page 38.

EARLY

Ends July 11

PRIME

July 12 - September 12

STANDARD

September 13 - November 3

PHYSICIANS-IN-TRAINING PROGRAM

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IMPORTANT DEADLINES

AUGUST 2

U.S. physicians-in-training registration deadline

AUGUST 18

U.S. physicians-in-training scholarship application
submission deadline

Face-Off presentations due



NEW IN 2022

WORLD INSIGHTS

VIVA brings global perspectives to the forefront in this two-part Wednesday event. The morning World Insights session will explore different international responses to the COVID-19 pandemic and lessons learned by the endovascular community worldwide. The afternoon session will feature case presentations by experts from Asia, Australia, Europe, and Latin America. See page 20 for more.

MASTER WORKSHOP

Get up close and personal in this series of focused roundtable sessions. Faculty members will offer practical tips and tricks at 4 tables, each featuring a unique clinical topic. See page 22 for more.



ATLAS LECTURE

Hear the 2022 ATLAS Award recipient and leading interventional radiologist Dr. Michael Dake offer his perspective on how to prepare for the future amid shortages in the healthcare workforce.

See page 9 or visit viva-foundation.org/awards for a complete list of VIVA22 award recipients and to learn more about the distinguished honorees.



CASE STUDY CENTRAL

Attendees are invited to be part of the action in this Discovery Theater session, where faculty members will take a closer look at attendee-submitted cases and offer their expert analyses.

SUBMIT YOUR CASE

Deadline: September 18

Attendees will receive submission instructions after registering for the conference. See page 22 for a list of approved clinical topics.

HANDS-ON OPPORTUNITIES

VASCULAR INNOVATION LAB

This cadaver lab will offer morning and afternoon sessions focused on lower extremity access, imaging, and intervention. Attendees will have the opportunity to explore vascular techniques using artificially revascularized lower limbs that provide a pulsatile, lifelike "blood flow." See page 18 for more.

SIMULATOR SHOWCASE

The VIVA exhibit hall will host a collection of simulators focused on vascular disease treatment. This 1-day event will feature a morning session specifically for Physicians-in-Training Program participants and an afternoon session for all conference attendees. See page 17 for session details and pages 26-27 for information about our Physicians-in-Training Program and Face-Off scholarships.

CME ACCREDITATION

This activity has been planned and implemented in accordance with the accreditation requirements and policies of the Accreditation Council for Continuing Medical Education (ACCME) through the joint providership of the University at Buffalo Jacobs School of Medicine and Biomedical Sciences and the VIVA Foundation. The University at Buffalo Jacobs School of Medicine and Biomedical Sciences is accredited by the ACCME to provide continuing medical education for physicians.

The University at Buffalo Jacobs School of Medicine and Biomedical Sciences designates this live activity for a maximum of **25.5 AMA PRA Category 1 Credits™**.

Physicians should claim only the credit commensurate with the extent of their participation in the activity. Note that multiple sessions will run concurrently each day. Participants may claim credit for sessions attended live, either in-person or virtually. Credits are not available for sessions viewed on demand.



MONDAY PRE-COURSES

- Aortic: 3.4
- CLTI: 5.7
- PharmacRx: 3.4

TUESDAY

- CLTI Track: 0.9
- Global Theater: 7
- Roundtable: 1.5

WEDNESDAY

- Aortic Track: 0.9
- CLTI Track: 0.9
- Global Theater: 7
- Roundtable: 4

THURSDAY

- Aortic Track: 0.9
- Dialysis: 0.9
- Spotlight Theater: 3.1

CME certificates will be available beginning November 4, 2022.

TARGET AUDIENCE

VIVA is designed for physicians specializing in interventional cardiology; interventional and neurologic radiology; vascular medicine; vascular, neurologic, and cardiothoracic surgery; podiatry; fellows and residents; and allied health professionals (including nurses, vascular clinic staff, endovascular operating room staff, cath lab and angiography suite staff, nurse practitioners, vascular technologists, and physician assistants).

OBJECTIVES

At the conclusion of the course, the targeted learners should be able to:

- Understand the current indications, risks, complications, and outcome of medical, interventional, and surgical therapies for the treatment of peripheral arterial, venous diseases and hemodialysis vascular access.
- Incorporate advanced medical, endovascular, and surgical techniques and approaches into their own practices to improve the care and outcomes of patients.
- Implement high-quality guidelines-based programs to improve the early identification and care of patients with non-cardiac vascular conditions.
- Increase knowledge in critical decision making and the comprehensive spectrum of care for patients with stroke, intracranial and extracranial carotid and artery disease.
- Improve the delivery of balanced and scientifically valid vascular care in accordance with expert opinion and practice.
- Apply a strategic multidisciplinary and team-based approach to the treatment of vascular disease.
- Gain and then disseminate the most current knowledge base regarding vascular care as learned from experts in the field, exposure to live cases, and data from late-breaking clinical trials.
- Understand medical, endovascular and surgical therapies for superficial and chronic venous disease, as well as other venous pathologies.
- Identify and discuss socioeconomic factors that result in variations in vascular care.



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Adventist Health St. Helena
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Nashville, Tennessee

Venita Chandra, MD

Vascular Surgery
Stanford University Medical Center
Stanford, California

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Interventional Cardiology
Connected Cardiovascular Care Associates
Dallas, Texas

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Interventional Radiology
Oregon Health & Science University
Portland, Oregon

Maureen P. Kohi, MD

Interventional Radiology
University of North Carolina
Chapel Hill, North Carolina

Raghu Kolluri, MD, MS

Vascular Medicine
OhioHealth Riverside Methodist Hospital
Columbus, Ohio

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Vascular Surgery
Cleveland Clinic
Cleveland, Ohio

D. Christopher Metzger, MD

Interventional Cardiology
Ballad CVA Heart Institute
Kingsport, Tennessee

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Interventional Radiology
Medical College of Wisconsin
Milwaukee, Wisconsin

Saher Sabri, MD

Interventional Radiology
MedStar Georgetown University Hospital
Washington, DC

Peter A. Schneider, MD

Vascular Surgery
University of California San Francisco
San Francisco, California

Eric A. Secemsky, MD, MSc

Interventional Cardiology
Beth Israel Deaconess
Medical Center / Harvard Medical School
Boston, Massachusetts

Niten Singh, MD

VIVA22 Program Chair
Vascular Surgery
Harborview Medical Center
Seattle, Washington



Not pictured: Maureen P. Kohi, MD; Parag J. Patel, MD, MS; Eric A. Secemsky, MD, MSc

FACULTY

Aaron W. Aday, MD, MSc

Vascular Medicine
Vanderbilt University
Medical Center
Nashville, Tennessee

J. Fritz Angle, MD

Interventional Radiology
University of Virginia
Charlottesville, Virginia

Gary Ansel, MD

Interventional Cardiology
University of Toledo
Columbus, Ohio

Mohammad Badran, MD

Interventional Radiology
King Faisal Specialist Hospital &
Research Centre
Riyadh, Saudi Arabia

Subhash Banerjee, MD

Interventional Cardiology
UT Southwestern & VA
North Texas
Dallas, Texas

Donald Baril, MD

Vascular Surgery
Cedars-Sinai Medical Center
Los Angeles, California

Iris Baumgartner, MD

Angiology
Swiss Cardiovascular Center
Bern, Switzerland

Varinder Bedi, MD

Vascular Surgery
Sir Ganga Ram Hospital
New Delhi, India

Teodora Bochnakova, MD

Interventional Radiology
Oregon Health &
Science University
Portland, Oregon

Marc Bonaca, MD, MPH

Vascular Medicine
University of Colorado
Aurora, Colorado

Marianne Brodmann, MD

Vascular Medicine
Medical University Graz
Graz, Austria

Scott Cameron, MD, PhD

Vascular Medicine
Cleveland Clinic
Cleveland, Ohio

Joseph Campbell, MD

Interventional Cardiology
OhioHealth Riverside
Methodist Hospital
Columbus, Ohio

Frank Caputo, MD

Vascular Surgery
Cleveland Clinic
Cleveland, Ohio

Teresa Carman, MD

Vascular Medicine
University Hospitals Cleveland
Medical Center
Cleveland, Ohio

Daniel Clair, MD

Vascular Surgery
Vanderbilt University
Medical Center
Nashville, Tennessee

FACULTY

Michael Dake, MD

Interventional Radiology
University of Arizona
Tucson, Arizona

Steven M. Dean, DO

Vascular Medicine
The Ohio State University
Wexner Medical Center
Columbus, Ohio

David Deaton, MD

Vascular Surgery
Hospital of the University
of Pennsylvania
Crownsville, Maryland

Kush R. Desai, MD

Interventional Radiology
Northwestern University
Feinberg School
of Medicine
Chicago, Illinois

Anahita Dua, MD, MS, MBA

Vascular Surgery
Massachusetts General Hospital /
Harvard Medical School
Boston, Massachusetts

Matthew Eagleton, MD

Vascular Surgery
Massachusetts General Hospital
Boston, Massachusetts

Foluso Fakorede, MD

Interventional Cardiology
Cardiovascular Solutions of
Central Mississippi
Cleveland, Mississippi

Javairiah Fatima, MD

Vascular Surgery
MedStar Health
Washington, DC

Luis Mariano Ferreira, MD

Vascular Surgery
Clinica La Sagrada Familia
CABA, Argentina

Bryan Fisher, MD

Vascular Surgery
TriStar Health
Nashville, Tennessee

Eva Freisinger, MD

Vascular Medicine, Research
University Hospital Muenster
Muenster, Germany

Lawrence A. Garcia, MD

Interventional Cardiology
Steward St. Elizabeth's
Medical Center
Boston, Massachusetts

Elizabeth Genovese, MD

Vascular Surgery
Medical University of
South Carolina
Charleston, South Carolina

Patrick Geraghty, MD

Vascular Surgery
Washington University
Medical School
St. Louis, Missouri

Jay Giri, MD, MPH

Interventional Cardiology
Hospital of the University
of Pennsylvania
Philadelphia, Pennsylvania

Bruce H. Gray, DO

Vascular Medicine
Prisma Health System
Greenville, South Carolina

William A. Gray, MD

Interventional Cardiology
Lankenau Heart Institute
Wynnewood, Pennsylvania

Dave W. Griffin, DPM

Podiatry
Oregon Health &
Science University
Portland, Oregon

Mohamad Hamady, MD

Interventional Radiology
Imperial College London
London, England

Sukgu Han, MD

Vascular Surgery
Keck School of Medicine of USC
Los Angeles, California

Karem Harth, MD

Vascular Surgery
University Hospitals Cleveland
Medical Center
Cleveland, Ohio

Beau Hawkins, MD

Interventional Cardiology
University of Oklahoma Health
Sciences Center
Oklahoma City, Oklahoma

Connie N. Hess, MD, MHS

Interventional Cardiology
University of Colorado School
of Medicine
Aurora, Colorado

Caitlin W. Hicks MD

Vascular Surgery
Johns Hopkins University School
of Medicine
Baltimore, Maryland

Jade Hiramoto, MD

Vascular Surgery
University of California
San Francisco
San Francisco, California

James Iannuzzi, MD

Vascular Surgery
University of California
San Francisco
San Francisco, California

Sasanka Jayasuriya, MD

Interventional Cardiology
Ascension Columbia St. Mary's
Hospital Ozaukee
Mequon, Wisconsin

Daniella Kadian-Dodov, MD

Vascular Medicine
Icahn School of Medicine at
Mount Sinai
New York, New York

Esther S. H. Kim, MD

Vascular Medicine
Vanderbilt University
Medical Center
Nashville, Tennessee

Paul B. Kreienberg, MD

Vascular Surgery
Albany Medical College / Albany
Medical Center Hospital
Albany, New York

Prakash Krishnan, MD

Interventional Cardiology
Mount Sinai
New York, New York

John R. Laird Jr, MD

Interventional Cardiology
Adventist Health St. Helena
St. Helena, California

Jason T. Lee, MD

VIVA22 Steering Committee
Vascular Surgery
Stanford University
Medical Center
Stanford, California

Jun Li, MD

Interventional Cardiology
University Hospitals Cleveland
Medical Center
Parma, Ohio

Michael Lichtenberg, MD

Angiology
Arnsberg Vascular Center
Arnsberg, Germany

Joseph Lombardi, MD, MBA

Vascular Surgery
Cooper University Health Care
Camden, New Jersey

Robert Lookstein, MD, MHCDL

Interventional Radiology
Icahn School of Medicine at
Mount Sinai
New York, New York

Kumar Madassery, MD

Interventional Radiology
Rush University Medical Center
Chicago, Illinois

M. Victoria Marx, MD

Interventional Radiology
Keck School of Medicine of USC
Los Angeles, California



FACULTY

S. Jay Mathews, MD, MS

Interventional Cardiology
Manatee Memorial Hospital /
Bradenton Cardiology Center
Bradenton, Florida

Nora McDermott-Tabori, MD

Interventional Radiology
MedStar Washington
Hospital Center
Washington, DC

Derek Mittleider, MD

Interventional Radiology
Holmes Regional
Medical Center
Viera, Florida

Peter Monteleone, MD

Interventional Cardiology
UT Austin Dell School
of Medicine
Austin, Texas

Miguel Montero-Baker, MD

Vascular Surgery
Baylor College of Medicine
Houston, Texas

Kieran Murphy, MD

Interventional Radiology
Toronto Western Hospital
Toronto, Ontario

Leigh Ann O'Banion, MD

Vascular Surgery
UCSF-Fresno
Fresno, California

Sahil A. Parikh, MD

Interventional Cardiology
New York Presbyterian /
Columbia University Irving
Medical Center
New York, New York

Constantino Peña, MD

Interventional Radiology
Miami Cardiac &
Vascular Institute
Miami, Florida

Ryan Priest, MD

Interventional Radiology
Oregon Health &
Science University
Portland, Oregon

Elina Quiroga, MD

Vascular Surgery
University of Washington
Seattle, Washington

Gaurav Rana, MD

Interventional Cardiology
Ballad CVA Heart Institute
Kingsport, Tennessee

Mahmood Razavi, MD

Interventional Radiology
St Joseph Heart &
Vascular Center
Orange, California

John Rollo, MD

Vascular Surgery
University of California
Los Angeles
Marina del Rey, California

Thom Rooke, MD

Vascular Medicine
Mayo Clinic
Rochester, Minnesota

Kenneth Rosenfield, MD

Interventional Cardiology
Massachusetts General Hospital
Boston, Massachusetts

Vincent Rowe, MD

Vascular Surgery
Keck School of Medicine of USC
Los Angeles, California

John H. Rundback, MD

Interventional Radiology
Advanced Interventional &
Vascular Services, LLP
Teaneck, New Jersey

Ravish Sachar, MD

Interventional Cardiology
UNC REX Healthcare
Raleigh, North Carolina

Gloria M. Salazar, MD

Interventional Radiology
University of North Carolina
Chapel Hill, North Carolina

Robert Schainfeld, DO

Vascular Medicine
Massachusetts General Hospital
Waltham, Massachusetts

Dierk Scheinert, MD

Angiology
University of Leipzig
Medical Center
Leipzig, Germany

Ryan Schenning, MD

Interventional Radiology
Oregon Health &
Science University
Portland, Oregon

Darren B. Schneider, MD

Vascular Surgery
University of Pennsylvania,
Perelman School of Medicine
Philadelphia, Pennsylvania

Mehdi Shishehbor, DO, MPH, PhD

Interventional Cardiology
University Hospitals
of Cleveland
Pepper Pike, Ohio

Adnan Siddiqui, MD, PhD

Neurosurgery
University at Buffalo's Jacobs
School of Medicine and
Biomedical Sciences
Buffalo, New York

Mitchell Silver, DO

Interventional Cardiology
OhioHealth Riverside
Methodist Hospital
Columbus, Ohio

Peter A. Soukas, MD

Interventional Cardiology
Lifespan Cardiovascular
Institute
Providence, Rhode Island

Sunita Srivastava, MD

Vascular Surgery
Massachusetts General Hospital
Boston, Massachusetts

Benjamin Starnes, MD

Vascular Surgery
University of Washington
Seattle, Washington

Jordan R. Stern, MD

Vascular Surgery
Stanford University
Medical Center
Palo Alto, California

Allison Tan, MD

Interventional Radiology
Thomas Jefferson University
Philadelphia, Pennsylvania

James Topper, MD, PhD

Cardiovascular Research
Frazier Healthcare Partners
Seattle, Washington

Ramon Varcoe, MBBS, MS, PhD

Vascular Surgery
Prince of Wales Hospital
Randwick, Australia

Suresh Vedantham, MD

Interventional Radiology
Washington University
in St. Louis
St. Louis, Missouri

Suman Wasan, MD

Vascular Medicine
UNC REX Healthcare
Raleigh, North Carolina

Mike Watts, MD

Interventional Radiology
Atlantic Medical Imaging
Vineland, New Jersey

Ido Weinberg, MD

Vascular Medicine
Massachusetts General Hospital
Boston, Massachusetts

Bret N. Wiechmann, MD

Interventional Radiology
Vascular & Interventional
Physicians
Gainesville, Florida

Timothy Yates, MD

Interventional Radiology
Palm Vascular Center
Boca Raton, Florida

Thomas Zeller, MD, PhD

Vascular Medicine
Universitäts-Herzzentrum
Bad Krozingen, Germany

Wayne Zhang, MD

Vascular Surgery
Harborview Medical Center
Seattle, Washington

2022 AWARD RECIPIENTS

ATLAS AWARD

The ATLAS (**A** Teacher, **L**eader, **A**nd **S**cholar) Award celebrates the career and impact of physicians who have distinguished themselves as scholars and leaders in their respective vascular fields. The VIVA Foundation is proud to honor the 2022 recipient, one of the founders of VIVA, Dr. Michael Dake.

Michael Dake, MD, is Senior Vice President of Health Sciences at the University of Arizona where he is Professor of Medical Imaging, Surgery, and Medicine. He is also Emeritus Professor of Cardiothoracic Surgery at Stanford University School of Medicine. At the University of Arizona, he is responsible for the Colleges of Medicine in Tucson and Phoenix, as well as the Colleges of Nursing, Public Health, and Pharmacy. He served as Division Chief of Interventional Radiology for 15 years at Stanford before being named Chairman of the Department of Radiology at the University of Virginia. He returned to Stanford in 2008 to focus on developing endovascular procedures to manage patients with thoracic and abdominal diseases.

His research interests include the use of drug-eluting stents and balloons for the treatment of peripheral arterial disease (PAD), and the use of percutaneous therapies to address a range of venous lesions. In addition to specialty certification in diagnostic radiology and vascular and interventional radiology, Dr. Dake is board certified in internal medicine and pulmonary disease.



Michael Dake, MD

LIVE AWARD

The LIVE (**A** Leader **I**n Endo**V**ascular **E**ducation) Award recognizes those vascular specialists who have dedicated their professional careers to educating students, postgraduate trainees, and peers in all aspects of vascular medicine and intervention. The VIVA Foundation is proud to present the 2022 LIVE Award to Dr. Daniel Clair.

Daniel Clair, MD, currently serves as the chair of Surgery at the Palmetto Health/University of South Carolina Medical Group, where he manages a department of over 30 surgeons as part of the largest group of medical providers in the mid-portion of South Carolina. He completed a general and vascular surgical training program at the Brigham and Women's Hospital and subsequently served four years as a vascular surgeon at Andrews Air Force base in Maryland, completing his service as the Chief of the Vascular Surgery section. He has served as the Chair of Vascular Surgery at Columbia Presbyterian Medical Center from 2002-2004 and was the Chair of Vascular Surgery at the Cleveland Clinic from 2006-2016.

Dr. Clair has had extensive experience in endovascular and open vascular surgical techniques for dealing with complex aortic and lower extremity occlusive disease. He has 4 U.S. patents and has published over 100 peer-reviewed articles.



Daniel Clair, MD

THE VCA AWARD

VIVA and LINC have collaborated to develop the VCA (**V**ascular **C**areer **A**dvancement) Award to recognize young physicians who show promise as potential leaders in the vascular field. We are pleased to honor Drs. Eva Freisinger and Eric A. Secemsky, who have been selected for their dedication to a philosophy of multidisciplinary vascular care and improving patient outcomes.

Eva Freisinger, MD, has been in practice at the University Hospital Muenster since 2012, and became a Senior Physician in the Department of Cardiology and Angiology in 2018. Her scientific focus lies in healthcare research for cardiovascular diseases and gender medicine. She currently serves as a project leader in major projects funded by the federal government of Germany.

Dr. Freisinger is the recipient of several awards and recognitions, most recently the August Wilhelm and Lieselotte Becht Scientific Prize of the German Heart Foundation in 2021 for her research on the safety of oral anticoagulation in high-risk individuals. Furthermore, her large-scale real-world analyses on the safety of paclitaxel-coated devices in the peripheral arteries has substantially contributed to reform this methodical approach in PAD.

Eric A. Secemsky, MD, MSc, is the Director of Vascular Intervention in the CardioVascular Institute at Beth Israel Deaconess Medical Center, Director of Vascular Research at the Smith Center for Outcomes Research in Cardiology, and an Assistant Professor of Medicine at Harvard Medical School.

Dr. Secemsky's research focuses on the comparative effectiveness of coronary and vascular therapies, with an emphasis on the use of novel statistical methods. He also examines outcomes related to cardiovascular disorders and the use of risk prediction models to guide treatment decisions. He has authored more than 100 peer-reviewed publications and has lectured nationally and internationally on his research. His research is funded by the NIH, Harvard Medical School, philanthropy, and extramural grants. He also serves as an Associate Editor of Vascular Medicine and on the Editorial Board of Circulation: Cardiovascular Intervention.



Eva Freisinger, MD



Eric A. Secemsky, MD, MSc



The VIVA Foundation is a not-for-profit organization dedicated to advancing the field of vascular medicine and intervention through multidisciplinary collaboration. We appreciate your ongoing support as we work to transform the world of endovascular care and research, ultimately improving the lives of our patients.

EDUCATION

- ✓ VIVA and The VEINS annual meetings
- ✓ Physicians-in-Training Program with Face-Off scholarships
- ✓ Transformative webinars across the spectrum of vascular disease

ADVOCACY

- ✓ Convening the Vascular Leaders Forum, a biennial symposium that brings together physicians, scientists, members of industry, the FDA, and CMS to produce white papers to provide direction for key clinical issues and effect advancement of vascular care:
 - 2016: CLTI
 - 2017: Carotid Artery Stenting
 - 2019: Paclitaxel Safety
 - 2022: Iliac Vein Stenting and Thrombectomy
- ✓ Creating forums for dialogue between the clinical vascular community and regulatory agencies to break down barriers in communication



RESEARCH

- ✓ Field-leading advances in vascular disease:
 - Patient-Level Meta-Analysis of 999 Claudicants Undergoing Primary Femoropopliteal Nitinol Stent Implantation—*Catheterization & Cardiovascular Interventions*, 2017
 - Carotid Artery Stenting in Asymptomatic Carotid Artery Stenosis—*JACC*, 2020
 - Mortality and Paclitaxel-Coated Devices: An Individual Patient Data Meta-Analysis—*Circulation*, 2020
 - Directional Atherectomy Before Paclitaxel-Coated Balloon Angioplasty in Complex Femoropopliteal Disease: The VIVA REALITY Study—*Catheterization & Cardiovascular Interventions*, 2021
- ✓ Sponsorship and bridge funding for key trials in the field:
 - BEST-CLI (NHLBI)
 - BEST Registry (NHLBI)
 - REALITY
 - XCELL
- ✓ Developing the next generation of research leaders in clinical vascular research through competitive grant awards in partnership with the American Heart Association



PHILANTHROPY

- ✓ Providing support for:
 - Americares
 - The American Heart Association—PAD Summit
 - The American Red Cross—Japan Earthquake and Pacific Tsunami Relief
 - Doctors Without Borders, USA
 - Feeding America
 - Fibromuscular Dysplasia Society of America
 - Fogarty Institute for Innovation
 - Mercy Corps and Ochsner Clinic Foundation—Hurricane Relief
 - Vascular Disease Foundation
 - World Food Program



V I R T U A L V I V A

PLAN • ACCESS • INTERACT

The Virtual VIVA app allows attendees to plan their conference experience using the in-app agenda, watch live and recorded sessions, and much more. Access to Virtual VIVA is included in tuition for in-person attendees.



REVIEW PRESENTATION SLIDES



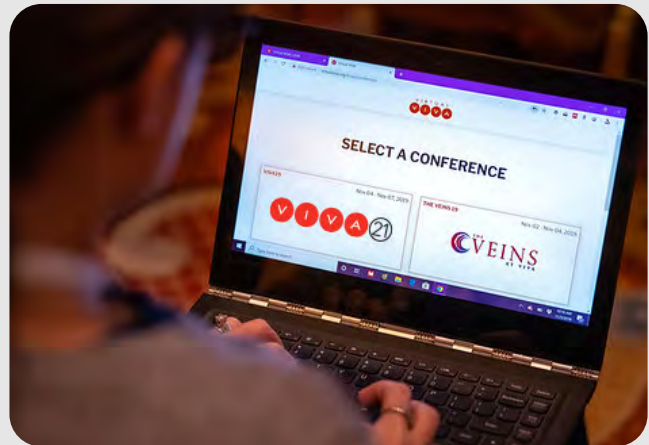
RECEIVE UP-TO-THE MINUTE ALERTS AND REMINDERS



SUBMIT QUESTIONS TO FACULTY



CLAIM CME CREDITS



VIRTUAL ATTENDEES

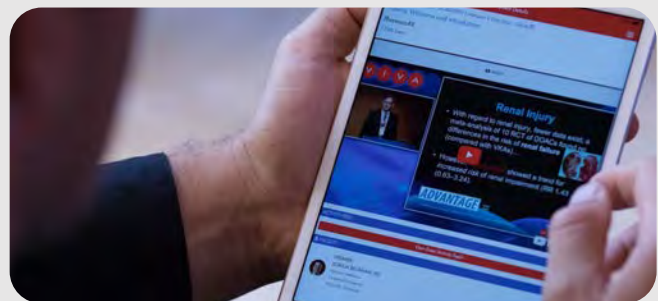
Physicians who choose to attend virtually can use the Virtual VIVA app to watch live sessions, access presentation slides, and interact with faculty during the conference. At the end of the conference, all recorded sessions and presentation slides will remain accessible for review.

Note that CME credits are available for sessions attended live, either in person or virtually. Participants may not claim CME credit for watching recorded sessions after the live broadcast.

ACTIVE DUTY MILITARY PHYSICIANS

Active duty military healthcare providers can use the Virtual VIVA app to participate online from any location or base at no charge.

See page 38 for complete tuition information and visit viva-foundation.org/register to register for VIVA and The VEINS 2022.



For more information, visit viva-foundation.org/viva-app.

SCHEDULE AT-A-GLANCE

	Morning Tracks and Breakfast Sessions 7:00 - 7:55am	Morning Sessions
SUNDAY Exhibit Hours: 7:15am - 6:30pm		The VEINS
MONDAY Exhibit Hours: 7:15am - 4:00pm	The VEINS Blue Sky Breakfast This innovation summit will highlight the latest treatment technologies in venous care.	The VEINS
		CLTI Pre-Course
TUESDAY Exhibit Hours: 7:30am - 4:00pm	CLTI Track	Global Theater
	Simulator Showcase	Nurses + Techs
	Satellite Session	Face-Off Competition
WEDNESDAY Exhibit Hours: 7:30am - 7:15pm	CLTI Track	Global Theater
	Aortic Track	Strategies on the Frontline
	Physicians-in-Training Sponsored Breakfast	The Roundtable
		World Insights
	Satellite Session	Face-Off Competition
		Nurses + Techs
		Hands-On Vascular Innovation Lab
THURSDAY <i>Sessions end at 12:00pm</i>	Aortic Track	Spotlight Theater
	Dialysis Track	Discovery Theater
		Face-Off Winners' Circle



Midday	Afternoon Sessions	Evening
Lunch and Exhibits / Satellite Sessions VIVA: 12:00 - 1:15pm The VEINS and VIVA Pre-Courses: 12:15 - 1:30pm	The VEINS	The VEINS Reception Join your colleagues for a reception in The VEINS exhibit hall as we welcome you to the 2022 conference.
	The VEINS	
	CLTI Pre-Course	
	Aortic Pre-Course	
	PharmacoRx Pre-Course	
	Global Theater	
	Nurses + Techs	
	Strategies on the Frontline	
	Face-Off Competition	Physicians-in-Training Program Reception
	The Roundtable	
	Simulator Showcase	Satellite Sessions
	Global Theater	VIVA Reception Join your fellow VIVA attendees in the exhibit hall following the conclusion of all sessions to enjoy food, drinks, and entertainment, as we celebrate our 20th year of exemplary endovascular education.
	Strategies on the Frontline	
	The Roundtable	
	World Insights	
	Face-Off Competition	
	Nurses + Techs	



CLTI

CASE PLANNING FOR CLTI CASES

- 10:15am** Preprocedure Imaging: My Approach
- 10:24am** Occupational Radiation Damage and Protecting Our Nuclear and Mitochondrial DNA
- 10:31am** Access Sites: How I Prep My CLTI Case
- 10:50am** Target Artery Path and Angiosomes: What Are the Preprocedural and Intraprocedural Considerations?
- 10:57am** Is There a Role for Endovascular Therapy in Rutherford 6/WIFI Stage 4 Patients? How Should I Approach These Patients?
- 11:04am** Panel Discussion

KEY STRATEGIES FOR CLTI PROCEDURES

- 11:15am** Strategies for Crossing Complex BTK Lesions
- 11:22am** How to Choose the Right Wire for the Right Lesions
- 11:29am** How Does IVUS Change My Approach to Infrapopliteal Intervention?
- 11:49am** Below-the-Ankle Pedal Arch Reconstruction
- 11:56am** When Is Below-the-Ankle Angioplasty Futile and Deep Vein Arterialization Should Be Considered?
- 12:03pm** Panel Discussion

BETWEEN A ROCK AND A HARD PLACE: MANAGING SEVERE VESSEL CALCIFICATION

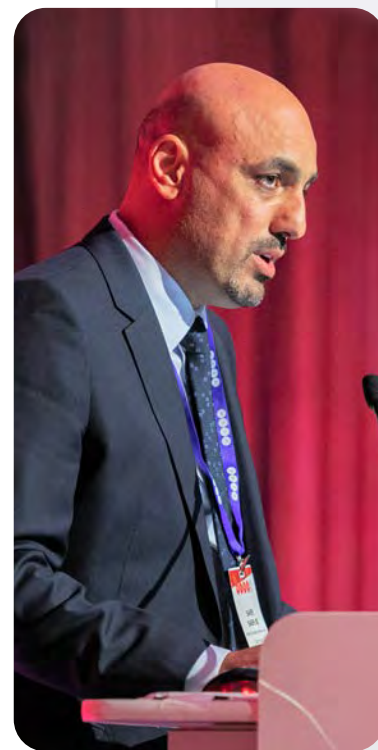
- 1:30pm** How Does Severe Calcification Affect Long-Term Procedural Outcomes for CLTI?
- 1:37pm** My Approach to Diagnosing and Managing Severe Calcific SFA Disease
- 1:44pm** My Approach to Diagnosing and Managing Severe Calcific BTK Disease
- 2:00pm** Drug Delivery and Calcium: Does Vessel Prep Matter?
- 2:07pm** Specialty Balloons, Atherectomy, and IVL: Tips and Tricks
- 2:14pm** Case Presentation: Multilevel Disease
- 2:31pm** Picking, Sticking Infrapopliteal CTOs and DEKIAP Techniques
- 2:38pm** Do Pedal Calcium and the MAC Score Affect Outcomes?
- 2:45pm** Panel Discussion

BTK THERAPY DEVELOPMENT: WHAT'S THE LATEST?

- 3:25pm** Plain Angioplasty and Specialty Balloons in BTK
- 3:32pm** DCB Trials in BTK
- 3:39pm** Scaffolds Trials in BTK
- 3:54pm** Atherectomy in BTK Lesions
- 4:01pm** Deep Vein Arterialization in CLTI
- 4:08pm** Panel Discussion

INVESTING IN THE LONG TERM: WOUND MANAGEMENT AND POSTPROCEDURE SURVEILLANCE

- 4:16pm** Wound Bed Management Beyond Debridement: My Thoughts and Algorithm for Challenging Wounds
- 4:23pm** Tips and Tricks for Compression and Offloading
- 4:30pm** Remote Wound Monitoring: Ready for Prime Time?
- 4:37pm** Debridement: Who, When, and How
- 4:53pm** Pharmacotherapy Following Revascularization: Which Agents and for What Duration
- 5:00pm** Optimizing Limb and Life: Reducing Global Cardiovascular Risk
- 5:07pm** Perfusion Imaging Post Revascularization: My Approach
- 5:14pm** Novel Devices for Perfusion Imaging
- 5:21pm** Panel Discussion



AORTIC

OUTCOMES AND MEDICAL MANAGEMENT

- 1:30pm** How Can We Achieve Reliable Long-Term Data After EVAR?
- 1:41pm** EVAR Long-Term Outcomes Have Improved: Is it Catching Up to Open Results?
- 1:49pm** FEVAR Neck Dilatation: Should We Be Concerned?
- 1:57pm** Outcomes With CHIMPS: Should We Still Be Doing These Procedures?
- 2:19pm** Impact of Medical Management on Inhibition of Growth of AAAs: Is There Evidence It Works?
- 2:27pm** Aortic Thrombus Effects on CV Events and Sac Regression
- 2:35pm** Inflammation, Infection, Degeneration: Have the Theories Changed in Regard to AAA Origin?
- 2:43pm** Panel Discussion

ACUTE AORTIC EMERGENCIES

- 3:25pm** Short Infraarenal Neck: PMEG, in Situ Laser Fenestration, or Just Open Repair
- 3:33pm** Type B Aortic Dissection: Timing of Intervention and Technical Tips
- 3:41pm** Acute Aortic Occlusion: Endovascular Treatment Options
- 3:59pm** What Is the Optimal Proximal Neck Length for TEVAR in Blunt Aortic Injury (BAI)?
- 4:07pm** Branch Graft and Its Role in BAI
- 4:15pm** Panel Discussion

THORACIC AORTIC DISSECTION/TAAA

- 4:25pm** Understanding the Pathology of Thoracic Aortic Dissection Makes Treatment Options Easy
- 4:33pm** BEVAR for TAAA: Lessons Learned From the Aortic Consortium
- 4:51pm** Is the Risk of Open TAAA Justifiable in Patients With Suitable Endovascular Anatomy?
- 4:59pm** Understanding Optimal, Preoperative, and Intraprocedural Imaging
- 5:07pm** FEVAR: Surveillance of Branches and When to Re-Intervene
- 5:15pm** Panel Discussion



PHARMACORx

MEDICAL THERAPY FOR PERIPHERAL ARTERY DISEASE

- 1:30pm** Everyone Uses Clopidogrel After Endovascular Revascularization. Why?
- 1:40pm** Are There Sex Differences in Antiplatelet Agent Choice?
- 1:48pm** Should We Implant a Watchman So PAD Patients Can Be Treated With Low-Dose Rivaroxaban
- 1:56pm** Does Cilostazol Help in CLTI?
- 2:14pm** What Is the Right LDL Level in Claudicants?
- 2:22pm** Does REDUCE-IT Indicate Triglyceride Treatment for PAD?
- 2:30pm** What Is the Deal With Lp(a), PAD, and PCSK9s?
- 2:38pm** Inclisiran: What Do I Need to Know?
- 2:46pm** Panel Discussion

ANTICOAGULANTS FOR VENOUS THROMBOEMBOLIC DISEASE

- 3:25pm** Initial Medical Therapy in PE: Should We Ever Use Unfractionated Heparin?
- 3:33pm** How Should I Manage Enoxaparin When CDT Is Needed?
- 3:41pm** When Is Warfarin the Best Choice Anticoagulant?
- 3:59pm** DOAC Antidotes: What, When, Why?
- 4:07pm** Factor XI Inhibitors: The Future?
- 4:15pm** Panel Discussion

MEDICAL THERAPY FOR AORTIC AND CAROTID ARTERY DISEASE

- 4:25pm** Does Aspirin Impact AAA Growth and Rupture?
- 4:33pm** What Medical Therapy Should Be Applied in Aortic Aneurysm Patients?
- 4:51pm** Do We Use Low-Dose Rivaroxaban in Carotid Disease?
- 4:59pm** Medical Management of Symptomatic Aortic Atheroma
- 5:07pm** Anticoagulation in Aortic Branch Vessel Dissection: How Does That Make Sense?
- 5:15pm** Panel Discussion



MORNING TRACK

CLTI

BEST OF THE BEST AND WORST OF THE WORST CASES

7:00am

Expert presenters will share 4 CLTI cases, highlighting some of their biggest successes and most difficult challenges.



8:00am WELCOME TO VIVA

8:10am LIVE CASE DEMONSTRATION

Ballad CVA Heart Institute
Live Case Site Operator: **D. Christopher Metzger, MD**
Kingsport, Tennessee



2022 AWARD PRESENTATIONS

9:25am ATLAS Award: **A Teacher, Leader, And Scholar**
Michael Dake, MD

9:32am ATLAS Lecture: Preparing for the Future: Building a Learning Environment
While Addressing Our Healthcare Workforce Shortages
Michael Dake, MD

9:54am LIVE Award: A **Leader In Vascular Education**
Daniel Clair, MD

10:01am VCA Award: **Vascular Career Advancement**
Eva Freisinger, MD; and **Eric A. Secemsky, MD, MSc**

Read about our distinguished award recipients at viva-foundation.org/awards.



2021 VCA Award:
Venita Chandra, MD



2021 ATLAS Award: John Bartholomew, MD
Award presenter: Raghu Kolluri, MD, MS

10:45am LATE-BREAKING CLINICAL TRIALS

CLTI: DISRUPTIVE TECHNOLOGIES

1:15pm Specialty Balloons and Intravascular Lithotripsy for BTK
Application: How to Apply These for Optimal Angioplasty
1:22pm Current and Future BTK Stent Technology
1:29pm Atherectomy: Emerging Data, New Uses, New Devices
1:41pm Drug-Coated Balloons BTK: What Is the Evidence for Paclitaxel?
What Is the Status of Limus-Based DCB?
1:48pm What Emerging Technologies Could Change our Approach to BTK Disease?

2:00pm LIVE CASE DEMONSTRATION

Ballad CVA Heart Institute
Live Case Site Operator: **D. Christopher Metzger, MD**
Kingsport, Tennessee

3:45pm LATE-BREAKING CLINICAL TRIALS

NEW

THE **ROUNDTABLE**

INNOVATIONS

- 1:15pm** What Is the Ideal Vascular Space for Disruptive Innovation?
- 1:26pm** How to Get Involved With Early-Stage Companies as a Physician Operator
- 1:37pm** Reinventing Yourself as an Interventionalist in 2022
- 1:48pm** How Will Blockchain Disrupt Medicine: A Look Into the Future

HOW TO BE A TRIALIST

- 2:15pm** What Are Sponsors Looking for in a Principal Investigator (PI)?
- 2:26pm** What Are the True Time Commitments and Requirements for a Clinical Trial PI?
- 2:37pm** Increasing Diversity in Clinical Trials
- 2:48pm** How to Build a Research Team at Your Site

The Roundtable provides concentrated clinical and research-based discussions. In-depth dialogue, expert opinions, and open reviews of controversies will increase your understanding of the latest treatment approaches and technologies.



★ **STRATEGIES ON THE FRONTLINE** ★

OPTIONS AND CONSIDERATIONS IN ACUTE LE OCCLUSIVE DISEASE*

- 1:15pm** Classic CDT: When Is It Still the Right Choice?
- 1:24pm** Endovascular Clot Extraction
- 1:33pm** Pulse Spray Thrombolysis and Mechanical Thrombectomy
- 1:42pm** Open Thrombectomy and How to Make the Choice
- 1:51pm** Fasciotomy: Is It Always Required?

COMPLICATIONS AND HOW I SALVAGED THE SITUATION*

- 2:15pm** EVAR Case
- 2:24pm** Iliac Perforation Case
- 2:33pm** Femoropopliteal Case
- 2:42pm** Subclavian Case
- 2:51pm** Tibial Case

Join these dynamic and interactive case conversations in a "theater-in-the-round" setting, encouraging attendees and speakers to discuss real-world challenges and practice approaches.

SIMULATOR SHOWCASE*

Two simulator sessions will help you plan for technical success, offering hands-on experience to enhance your skill set.

SESSION 1*

7:00-7:55am

Physicians-in-Training Program rotation (see pages 26-27 for more information)

SESSION 2*

1:15-2:30PM

General session, open to all attendees



*Non-CME

MORNING TRACKS

CLTI

WHEN IS IT TIME TO DV8

- 7:00am** How I Select Patients for DVA: Endo and Open
- 7:07am** Preoperative Imaging: Is Vein Mapping Needed?
- 7:14am** Planning Access: Tips and Tricks
- 7:32am** Proximal vs Distal DVA
- 7:39am** Surveillance Imaging and When to Re-Intervene
- 7:46am** Panel Discussion

AORTIC

RE-INTERVENTIONS, ENDOLEAKS, AND MORE

- 7:00am** Are Type II Endoleaks Truly Benign?
- 7:08am** Managing the Occult or Elusive Endoleak
- 7:16am** Tips on Treating Type II Endoleaks, Transarterial or Transcaval
- 7:33am** Adjunctive Measures Such as Endoanchors and Proximal Stenting: Are They Effective for Type II Endoleaks?
- 7:41am** FEVAR for Type II Endoleaks: Tips and Techniques
- 7:49am** Panel Discussion



HANDS-ON VASCULAR INNOVATION LAB

This cadaver lab offers a unique opportunity to explore vascular techniques using artificially revascularized specimens. These limbs provide a pulsatile, lifelike “blood flow” and are the perfect model for practicing:

- Atherectomy
- Vessel prep
- Retrograde/deep vessel access
- Stent placement

SESSION 1*

8:00-9:00AM

General session, open to all attendees

SESSION 2*

10:45AM-12:00PM

Physicians-in-Training Program rotation
(see pages 26-27 for more information)

VIVA RECEPTION

Wednesday, November 2

5:15-7:15pm

Join your colleagues at the VIVA Reception following the conclusion of all sessions. We will convene in the VIVA exhibit hall to enjoy food, drinks, and entertainment. Admission to the reception is included in your course registration. Guest tickets may be purchased for an additional fee.





8:00am REVIEW OF TUESDAY LIVE CASES

8:05am LINC AT VIVA: LIVE CASE DEMONSTRATION

University Hospital Leipzig
Live Case Site Operator: **Andrej Schmidt, MD**
Leipzig, Germany



LINC AT VIVA: FEM-POP AND BTK CHALLENGES



- 9:20am** DCB vs DES Paradigm in the Treatment of Fem-Pop Disease: Which Is Better? How to Select Patients?
- 9:28am** Eccentric, Circumferential, or Diffuse Calcium of the Fem-Pop Arteries: How Should This Be Managed in 2022 and What Are My Best Tools?
- 9:36am** Embolization of the Distal Runoff Bed During Complex Endovascular Procedures: How Big of a Problem Is it and What Can We Do to Prevent It?
- 9:53am** What Will Improve the Patency of Tibial Reconstruction: Plaque Modification, Better Lumen Gain, Drugs, Scaffolds, or Something Else?
- 10:01am** What Are the New Tools and the Next Tools to Improve Our Ability to Assess Tissue Perfusion in CLTI?

10:45am LATE-BREAKING CLINICAL TRIALS

1:15pm LIVE CASE DEMONSTRATION

University of Washington
Live Case Site Operators:
Benjamin Starnes, MD; Sara Zettervall, MD, MPH
Seattle, Washington



DISRUPTIVE TECHNOLOGY IN AORTIC INTERVENTION

- 2:25pm** Aortic Arch Branch Grafts: Will They Work?
- 2:33pm** Single Side Branch Grafts for the Left SCA: Are They Needed?
- 2:50pm** PMEG: Dispersing the Technology?
- 2:58pm** IBE: Is the Cost/Benefit Really Worth It?

IMPROVING VASCULAR CARE FOR THE DISADVANTAGED—ANY HOPE ON THE HORIZON?

- 3:45pm** Amputation Trends in Different Populations and Regions of the Country
- 3:53pm** Is There Any Other Disease More Associated With Poverty Than CLTI?
- 4:01pm** Vascular Specialists: Why Aren't We Located Where the Problem Is?
- 4:09pm** Outreach: How Do We Educate Primary Care Doctors to Identify CLTI Before It Is Too Late?
- 4:30pm** Overcoming Bias: Even the Laboratory Data and Risk Prediction Scores Need Scrutiny
- 4:38pm** What Is a Food Desert and How Is It Associated With Poor Outcomes?
- 4:46pm** Is the Latest Technology Equitable in the United States?
- 4:54pm** Putting It All Together and Moving Forward: Steps to Improve Care in Vulnerable Populations

VIVA will examine barriers and biases that result in variations in vascular care, with steps to move toward a more equitable future for all patients.



NEW

NEW

WORLD INSIGHTS

8:00am SILVER LININGS: WHAT WE'VE LEARNED FROM THE COVID PANDEMIC*

World Insights convenes clinicians from around the globe to discuss how the COVID pandemic has changed practice and research. Presentations will explore COVID-related arterial thrombosis, CLTI treatment and vascular surgery emergencies during the pandemic, and differing responses to COVID in Argentina, Australia, Singapore, and Saudi Arabia.

4:00pm INTERNATIONAL CASE PRESENTATIONS**

Experts from Asia, Australia, Europe, and Latin America will present cases chosen to challenge your clinical perspective and provide a fresh look at endovascular care around the world.

THE ROUNDTABLE

CAROTID AND BRACHIOCEPHALIC

- 8:05am Is TCAR Going to Replace TFCAS and CEA?
- 8:16am Treating Innominate Artery Stenosis: Approach and Techniques
- 8:27am New Advances in Embolic Protection for CAS
- 8:38am Is it Time to Revoke the Carotid NCD? What Is the Evidence?

AORTOILIAC OCCLUSIVE DISEASE

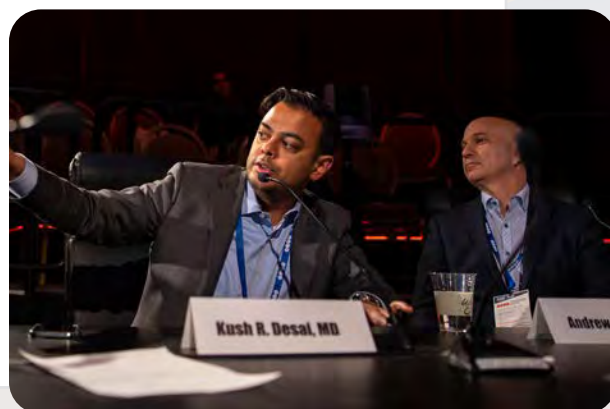
- 9:00am To Raise the Bifurcation or Not?
- 9:11am CTOs: Crossing Techniques Plan A, B, and C
- 9:22am Is the Aortobifemoral Bypass a Thing of the Past?
- 9:33am Novel Techniques to Deal With Calcium in the Aortoiliac Segment

CROSSROADS IN YOUR CAREER: HOW TO REINVENT YOURSELF

- 1:15pm Transitioning From Bedside to Industry: Pros and Cons
- 1:24pm Healthcare Administration: Is it for You?
- 1:33pm So You Want to Be the Chair of Your Department?
- 1:52pm Getting Involved in Medical Device Start-Up
- 2:01pm Capitalizing on Your Medical Knowledge in Venture/Private Equity
- 2:10pm I Am a Busy Clinician: How Do I Become a Thought Leader?

WOUND CARE MANAGEMENT

- 4:00pm Wound Etiology: Understanding the Pathology for Effective Therapy
- 4:09pm Mixed Arterial and Venous Wounds: Treatment Strategies
- 4:18pm How Do We Choose Which Biologic Agent May Assist in Wound Healing?
- 4:37pm Evaluating Wounds: Which Assessment Tool Should We Use?
- 4:46pm Compression Therapy for Venous Wounds: How to Make it Successful
- 4:55pm Other Adjunctive Therapies for Diabetic Wounds: Offloading Hyperbaric Oxygen



*This session is only accredited for Nurses + Techs program attendees.
**Non-CME

WEDNESDAY, NOVEMBER 2

★ STRATEGIES ON THE FRONTLINE ★

CLTI: DEALING WITH CALCIUM*

- 8:05am** Iliac Case
- 8:14am** Femoropopliteal Case: Atherectomy
- 8:23am** Femoropopliteal Case: Scaffolding
- 8:32am** Tibial Case: Specialty Balloons
- 8:41am** Tibial Case: Scaffolding

REOPERATIONS*

- 9:00am** Endovascular Therapy After Failed Open
- 9:09am** Solution for Failed Femoropopliteal Interventions
- 9:18am** Failed First Carotid Intervention: What's Next?
- 9:27am** Femoropopliteal Re-intervention Without Burning a Bridge
- 9:36am** Open Salvage of a Failed Endovascular Intervention

ACCESS SETS THE TEMPO*

- 1:15pm** Ultrasound Foresight and Hindsight: Looking to Get In and Out and Using It Everywhere
- 1:23pm** Percutaneous Large Bore Access
- 1:31pm** Antegrade Femoral Access
- 1:39pm** Radial Access Gone Bad
- 1:47pm** Complex Femoral Pseudoaneurysm

MY LONELIEST CASE AND WHAT I LEARNED*

- 2:00pm** AAA Case
- 2:08pm** Thoracic Case
- 2:16pm** Aortoiliac Occlusion Case
- 2:24pm** Femoropopliteal Case
- 2:32pm** Tibial Case

CHALLENGES IN THE NECK*

- 4:00pm** Transfemoral CAS Case
- 4:07pm** Carotid Dissection
- 4:14pm** TCAR Case
- 4:21pm** Vasculitis Case
- 4:28pm** Open CEA Case

DVT/PE*

- 4:40pm** Challenging Acute PE Case
- 4:47pm** Dealing With DVT: Clot Extraction
- 4:54pm** Dealing With DVT: Multimodal Therapy
- 5:01pm** IVC Filter Complication
- 5:08pm** May-Thurner Case With Clot Extraction and Stenting



MORNING TRACKS

AORTIC

HOW I DO IT

- 7:00am** Blunt Aortic Injury: When to Repair and How to Make This an Easy Procedure
7:08am Complex Aortic Repair and Devices That Can Make the Procedure Easier: Steerable Sheaths, Endoanchors, Etc.
7:16am Advanced IBE Techniques
7:33am Ruptured AAA: Open
7:41am Ruptured AAA: Endo
7:49am Panel Discussion

DIALYSIS

HOT TOPICS IN DIALYSIS ACCESS

- 7:00am** Tips and Tricks for EndoAVF
7:08am Two Devices, One Patient: Which Do I Use?
7:16am Complications and Re-Interventions: Open vs EndoAVF
7:33am DCB for AVF Stenosis: Is There Any Reason to Not Use It?
7:41am When to Use Covered Stents
7:49am Panel Discussion



NEW

DISCOVERY THEATER

8:00am MASTER WORKSHOP

Get practical tips and tricks in a roundtable format. Expert faculty will host four table discussions on the following topics:

Alternative Access
Aortoiliac Occlusions
Fem-Pop Occlusions
Venous: Acute Thrombus Removal

CASE STUDY CENTRAL: SHARE YOUR CASE WITH THE PANEL*

Continuing the interactive expert-led roundtable format, Case Study Central will feature cases submitted by VIVA22 attendees.

- 9:10am** Alternative Access
Aortoiliac Occlusions
Fem-Pop Occlusions
Venous: Acute Thrombus Removal

- 10:25am** BTK
Carotid
Medical Management

SUBMIT YOUR CASE

Deadline to submit: September 18

Attendees will receive submission instructions after registering for the conference. Submissions must fall into one of the clinical categories under the session listing.

SPOTLIGHT THEATER

CHALLENGING CASES

8:00am	Venous/PE
8:08am	Aortic
8:16am	Dialysis
8:36am	Visceral
8:44am	Tibial
9:10am	Fem-Pop Scaffold
9:18am	Innominate
9:26am	Carotid
9:46am	Thoracic Dissection
9:54am	Maldeployment



VIVA FACE-OFF

10:25am FACE-OFF WINNERS' CIRCLE

The top Face-Off scorers will showcase their winning presentations. See pages 26-27 to learn more about the 2022 Physicians-in-Training Program and Face-Off scholarships.

NEW

FUTURE PERSPECTIVES

10:50am VIVA22 concludes with a look toward what's next on the horizon for endovascular care as the field continues to evolve.



CE ACCREDITATION

TARGET AUDIENCE

The target audience for the Nurses + Techs program is nurses, physician assistants, nurse practitioners, and technologists who work in cardiovascular care, cath labs, angiography suites, and endovascular operating rooms.

OBJECTIVES

At the conclusion of the course, the targeted learners should be able to:

- Describe anatomy/physiology and management of arterial, venous, and lymphatic disorders
- Discuss the role of nurses and techs in safely navigating the cath lab suite

ACCREDITATION

This nursing continuing professional development activity was approved by the American Association of Critical-Care Nurses, an accredited approver by the American Nurses Credentialing Center's Commission on Accreditation.

This activity has been approved for **7.75 contact hours**.

CE certificates will be available beginning November 4, 2022.

PROGRAM COMMITTEE

John A. Kaufman, MD
Interventional Radiology
Oregon Health & Science University
Portland, Oregon



Melissa A. Strickengloss, MSN, NP-C
2022 Program Chair and Nurse Planner
Vascular Medicine
OhioHealth Heart & Vascular Physicians
Columbus, Ohio



FACULTY

Iris Baumgartner, MD
Vascular Medicine
Swiss Cardiovascular Center
Bern, Switzerland

Joshua A. Beckman, MD
Vascular Medicine
Vanderbilt University
Medical Center
Nashville, Tennessee

Teodora Bochnakova, MD
Interventional Radiology
Oregon Health & Science University
Portland, Oregon

Marc Bonaca, MD, MPH
Vascular Medicine
University of Colorado
Aurora, Colorado

Joseph Campbell, MD
Interventional Cardiology
OhioHealth Riverside
Methodist Hospital
Columbus, Ohio

Paul Davis, RN
Vascular Medicine
OhioHealth
Columbus, Ohio

Wendy Fields, ANP-BC
Cardiology
Ballad CVA Heart Institute
Kingsport, Tennessee

Rebecca Garcia, MN, AGACNP-BC
Interventional Radiology
Oregon Health & Science University
Portland, Oregon

Bruce H. Gray, DO
Vascular Medicine
Prima Health System
Greenville, South Carolina

Dave W. Griffin, DPM
Podiatry
Oregon Health & Science University
Portland, Oregon

Mohamad Hamady, MD
Interventional Radiology
Imperial College London
London, England

Caitlin W. Hicks, MD
Vascular Surgery
Johns Hopkins University
School of Medicine
Baltimore, Maryland

Esther S. H. Kim, MD
Vascular Medicine
Vanderbilt University
Medical Center
Nashville, Tennessee

Paul B. Kreienberg, MD, FNP-C
Vascular Surgery
Albany Medical College / Albany
Medical Center Hospital
Albany, New York

M. Victoria Marx, MD
Interventional Radiology
Keck School of Medicine of USC
Los Angeles, California

Ali Moran, AGACNP
Vascular Medicine
Vanderbilt University
Medical Center
Nashville, Tennessee

Christine T. Owen, MS, ACNP-BC, RNFA
Vascular Surgery
MedStar Washington
Hospital Center
Washington, DC

John H. Rundback, MD
Interventional Radiology
Advanced Interventional &
Vascular Services, LLP
Teaneck, New Jersey

Robert Schainfeld, DO
Vascular Medicine
Massachusetts General Hospital
Waltham, Massachusetts

Jan Sloves, RVT, RCS
Vascular Medicine
Mount Sinai Beth Israel
New York, New York

Bret N. Wiechmann, MD
Interventional Radiology
Vascular & Interventional
Physicians
Gainesville, Florida

Christy Willocks, NP-BC
Interventional Cardiology
Ballad CVA Heart Institute
Kingsport, Tennessee

Timothy Yates, MD
Interventional Radiology
Palm Vascular Center
Boca Raton, Florida

Wayne Zhang, MD
Vascular Surgery
University of Washington
Seattle, Washington

TUESDAY, NOVEMBER 1

VENOUS AND THROMBOEMBOLIC DISORDERS

- 8:00am** Chronic Venous Insufficiency: Anatomy and Diagnosis
- 8:14am** Definitive Therapy of Superficial Venous Disorders
- 8:23am** Lymphedema: Anatomy, Physiology, and Conservative Management
- 8:32am** Management of DVT and PE

CAROTID ARTERY STENOSIS

- 8:50am** Carotid Artery Duplex: Making Sense of the Different Criteria for Stenosis Severity
- 8:58am** Medical Therapy, Stents, and Endarterectomy: Is There Really a Difference?
- 9:06am** When Do You Choose TCAR? When Do You Choose Percutaneous?
- 9:22am** Advances in Stroke Intervention
- 9:30am** Carotid Intervention: A Procedural Nurse's Perspective
- 9:38am** Innominate and Subclavian Artery Disease: How to Evaluate, When to Treat

RISK FACTOR REDUCTION MEASURES: TECHNIQUES IN PAD

- 11:00am** Smoking Cessation: Options for Treatment
- 11:09am** New Advances in PAD Rehabilitation
- 11:18am** Role of Statin Therapy in PAD Risk Reduction and Other Lipid-Lowering Strategies
- 11:27am** Antiplatelet and Low-Dose Anticoagulation in PAD
- 11:36am** Expanding Access to Outpatient Vascular Care

HEALTHCARE IN THE COVID ERA

- 1:30pm** COVID: Silver Linings?
- 1:38pm** COVID Thrombosis: Not Going Away
- 1:46pm** Safe Personal Practices for Healthcare Providers
- 2:04pm** How to Handle Your Schedule in the COVID Era
- 2:12pm** Ethical Challenges and Dilemmas of COVID

WEDNESDAY, NOVEMBER 2

8:00am NURSES + TECHS CONTINUES WITH WORLD INSIGHTS

Attendees will join VIVA's newest session to gain an international perspective on medical care and innovation through the COVID pandemic. See page 20 for the World Insights agenda.

RADIATION PROTECTION IN THE CATH LAB

- 11:20am** Radiation Refresher: the Basics Of Exposure and Risk
- 11:28am** Getting Better All the Time: Radiation Safety Tools, Techniques, and Best Practices
- 11:36am** Towards Safer Procedures With Reduced Radiation Doses in Complex Aortic Interventions: Lessons Learned and Suggested Technical Guidance
- 11:44am** My Aching Back: Ergonomic Considerations in the Procedural Suite

PAD

- 1:15pm** Multidisciplinary Approach to PAD
- 1:23pm** PAD: Anatomy/Physiology/Physical Exam
- 1:31pm** Lower Extremity PAD: Case Presentation
- 1:39pm** Critical Limb Threatening Ischemia: New Approaches to Revascularization
- 1:47pm** Renal Artery Stenosis: Management and When to Stent
- 1:55pm** Mesenteric Ischemia Interventions

NONATHEROSCLEROTIC ARTERIAL DISORDER

- 2:15pm** The Many Faces of Fibromuscular Dysplasia
- 2:23pm** Field Guide to Vasculitis
- 2:31pm** Inherited Arterial Diseases
- 2:39pm** Vasospastic Disorders
- 2:47pm** Managing Vascular Trauma
- 2:55pm** Vascular Complications of Malignancy



PHYSICIANS-IN-TRAINING PROGRAM

VIVA FACE-OFF

The Face-Off Competition is designed for U.S. physicians in training (fellows and qualifying residents) to present original research or interesting cases with a focus on complex procedures, complication management, advanced and novel techniques, or new technology.

VIVA faculty will judge each presentation on clarity, interest, value, originality, depth, and scope. Winners will present in the Spotlight Theater on Thursday, November 3.

- **Registration deadline is August 2**
- **Scholarship and presentation submission deadline is August 18**
- **Scholarships awarded August 29**

Additional details are available at viva-foundation.org/physicians-in-training.



2021 TOP FACE-OFF PRESENTERS

Winner: Daryl Goldman, MD

Runners up: Dhara Kinariwala, MD;
Raghuram Posham, MD; Brent Robertson, MD

*From left to right: Niten Singh, MD (Face-Off Winners' Circle presenter);
Raghuram Posham, MD; Daryl Goldman, MD; Brent Robertson, MD; Dhara Kinariwala, MD*

PHYSICIANS-IN-TRAINING SCHOLARSHIP PROGRAM

A limited number of scholarships to attend VIVA and The VEINS are available for qualifying U.S. fellows and residents. Scholarships include registration costs, roundtrip economy airfare, and up to 5 nights' hotel room/tax. Participants will arrive on Saturday, October 29, to attend both VIVA and The VEINS; and either Sunday, October 30 or Monday, October 31 to attend VIVA only (note that the VIVA Pre-Courses begin at 10am on Monday). Departures should be after 2pm on Thursday, November 3.

Physicians in training must submit their scholarship application and a presentation for the Face-Off Competition by the **August 18** deadline. Scholarship recipients must attend the full course, including required Physician-in-Training Program sessions and events.

WHO CAN APPLY

- U.S. physicians in training who can attend the entirety of the course
- All current 1st- and 2nd-year fellows in endovascular medicine; interventional cardiology and interventional radiology; vascular surgery; neurology; and cardiology
- All residents in PG 1-5 vascular surgery or interventional radiology

Visit viva-foundation.org/physicians-in-training for complete guidelines, and visit viva-foundation.org/register to begin the registration process.



PHYSICIANS-IN-TRAINING SESSIONS AND EVENTS

TUESDAY, NOVEMBER 1

7:00am SIMULATOR SHOWCASE

Physicians-in-Training will get a first look at this collection of simulators from a variety of device manufacturers.

VIVA FACE-OFF

11:00am The Face-Off competition begins and will continue throughout the day.

TOP 5 TIPS, TRICKS, AND PEARLS

4:00pm CLTI
4:08pm Embolization
4:16pm PE
4:24pm Aneurysm/Dissections
4:32pm Venous Disease

HOW WOULD YOU DO IT?

4:48pm Experts will present complex cases designed to challenge and transform trainees' future practices.

PHYSICIANS-IN-TRAINING PROGRAM RECEPTION

5:30pm Attendees will visit the exhibit hall, partake in refreshments, and meet with program supporters and VIVA faculty.



Venita Chandra, MD
Physicians-in-Training
Program Chair

WEDNESDAY, NOVEMBER 2

7:00am SPONSORED BREAKFAST SESSION

VIVA FACE-OFF

8:05am The Face-Off competition begins and will continue throughout the day.

HANDS-ON INNOVATION LAB

9:00am Trainees will have exclusive time to experience this hands-on cadaver lab featuring a variety of demonstrations.



THURSDAY, NOVEMBER 3

BUILDING A SUCCESSFUL PRACTICE

7:00am Key Considerations for a First Job in a Private Practice or Hospital
7:08am Key Considerations for a First Academic Job
7:16am 3 Things I Wish I'd Done Differently My First Year in Practice
7:32am Top Tips and Pearls for Contract Negotiation
7:40am What to Do When My First Job Doesn't Work Out

VIVA FACE-OFF WINNERS' CIRCLE

10:25am The top scorers will be announced and invited to present their work from the Spotlight Theater stage. All program attendees must be present in the event their name is called.

Points
every team approach
for every scenario
in techniques/devices
research



COMMERCIAL SUPPORTERS

VIVA and The VEINS are possible in part due to generous educational grants from commercial supporters. Their contribution to VIVA's educational vision strengthens our goal of providing the highest quality education through a variety of learning formats and improving patient outcomes.

2021 VIVA Supporters

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2021 CLTI Pre-Course Supporters

Abbott Vascular
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2021 EXHIBITORS

All conferences

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DISCLAIMERS

MEDICAL CONFIDENTIALITY

Because live case demonstrations will be presented, you are reminded that any patient information you may receive as a part of this continuing medical education (CME) program is considered confidential. Confidential patient information includes all information that could be used to identify the individual patient. By participating in this CME program, you agree to maintain the confidentiality of all patient information and not release that information to any third party.

MEDICAL JUDGMENT DISCLAIMER

The information provided at this meeting is for continuing education purposes only and is not meant to substitute for the independent medical judgment of a physician relative to diagnostic and treatment options of a specific patient's medical condition.

UNLABELED PRODUCTS AND/OR PROCEDURES

Faculty may discuss information about pharmaceutical agents and/or devices and/or procedures that are outside of U.S. Food and Drug Administration-approved labeling. This information is intended solely for CME and is not intended to promote off-label use of these medications, devices, and procedures. If you have questions, contact the medical affairs department of the manufacturer for the most recent prescribing information.

FACULTY DISCLOSURES

The University at Buffalo Jacobs School of Medicine and Biomedical Sciences, in accordance with ACCME accreditation requirements, requires faculty to disclose any financial interest or other relationship with the manufacturer(s) of any commercial product(s) and/or provider(s) of commercial services discussed during this educational activity and with any commercial supporters of the activity.

SOCIAL MEDIA DISCLAIMER

The VIVA Foundation accepts comments and discussions via our social media outlets related to vascular education. The VIVA Foundation does not solicit nor endorse any comment that may be posted, and comments, likes, or follows do not necessarily express the opinion or views of the foundation. We will remove any information, discussion, comment, and material that we deem to be inappropriate and/or which violates our policy to protect patient identities. All commentary with a promotional purpose for a service, device, or technology will be removed immediately. The VIVA Foundation assumes no liability for information posted or presented by others, and only endorses comments and postings provided directly by the foundation. Any posting or live streaming of entire sessions or live cases and use of any course content, branding, or logos for commercial use is strictly prohibited. If you wish to report any violation of the above, please contact marketing@viva-foundation.org.

AUDIO/VIDEO RECORDING AND PHOTOGRAPHY POLICY

The VIVA Foundation encourages and promotes the exchange and accessibility of educational content from the conferences. Presentation recordings and slides are available at no charge to attendees through Virtual VIVA. Photography, audio, and video recordings with handheld devices are permitted for social, personal, or educational purposes, if not disruptive. However, any posting or live streaming of entire sessions or live cases and use of any VIVA or The VEINS course content for commercial purposes is strictly prohibited.



COMPREHENSIVE • CASE-BASED • CUTTING-EDGE

The VEINS (**V**enous **E**ndovascular **I**nterventional **S**trategies) is a transformative multidisciplinary educational event dedicated to the diagnosis, intervention, and management of venous disorders.

The VEINS Course Directors and Scientific Committee are pleased to present a thorough and challenging agenda that will explore key clinical topics, challenge your perspective on current practice trends, and offer a glimpse of what's next in venous disease care. The 2022 program will delve into PE, superficial and deep vein disease, pelvic vein disease, dialysis, and medical management. Returning for a third year, the Blue Sky Breakfast: The VEINS Innovation Summit will showcase new technological solutions for unmet needs in venous care.

We are especially excited to offer two new sessions:

- The VEINS Late-Breaking Clinical Trials, featuring first-on-podium presentations of trial data specifically relevant to venous specialists
- A series of audience-submitted cases at the end of each day, with analysis from expert panelists

As always, program attendees will be able to gain new insight from expert faculty members through didactic talks as well as continuous opportunities for live interaction and Q&A.

We hope you will join us in Las Vegas this October, as we look forward to sharing the next iteration of this exceptional program with you.

THE VEINS COURSE DIRECTOR



Maureen P. Kohi, MD
Interventional Radiology
University of North Carolina
Chapel Hill, North Carolina

THE VEINS CO-COURSE DIRECTORS



Raghu Kolluri, MD, MS
Vascular Medicine
OhioHealth Riverside Methodist Hospital
Columbus, Ohio




Peter A. Schneider, MD
Vascular Surgery
University of California San Francisco
San Francisco, California

CME ACCREDITATION

This activity has been planned and implemented in accordance with the accreditation requirements and policies of the Accreditation Council for Continuing Medical Education (ACCME) through the joint providership of the University at Buffalo Jacobs School of Medicine and Biomedical Sciences and the VIVA Foundation. The University at Buffalo Jacobs School of Medicine and Biomedical Sciences is accredited by the ACCME to provide continuing medical education for physicians.

The University at Buffalo Jacobs School of Medicine and Biomedical Sciences 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. Participants may claim credit for sessions attended live, either in-person or virtually. Credits are not available for sessions viewed on demand.

 **University at Buffalo** The State University of New York
Jacobs School of Medicine and Biomedical Sciences

**CME certificates will be available
beginning November 4, 2022.**

TARGET AUDIENCE

The VEINS is designed for physicians specializing in interventional cardiology; interventional and neurologic radiology; vascular medicine; vascular surgery; podiatry; as well as fellows and residents; and allied health professionals (including nurses, nurse practitioners, technologists, and physician assistants) interested in the diagnosis, management, and treatment of venous disease.

OBJECTIVES

At the conclusion of the course, the targeted learners should be able to:

- Understand medical, endovascular and surgical therapies for superficial and chronic venous disease, as well as other venous pathologies.
- Discuss the role of imaging for diagnosis of venous disease and uses during intervention.
- Appreciate the currently available therapeutic options and review the novel data in the management of superficial and deep vein disease.



THE VEINS 2022 SCIENTIFIC COMMITTEE



Geoffrey Barnes, MD, MSc

Vascular Medicine
University of Michigan
Ann Arbor, Michigan



Michael Jolly, MD

Interventional Cardiology
OhioHealth Riverside
Methodist Hospital
Columbus, Ohio



Kathleen J. Ozsvath, MD

Vascular Surgery
St. Peters Health Partners
Troy, New York



Gloria M. Salazar, MD

Interventional Radiology
University of North Carolina
Chapel Hill, North Carolina

FACULTY

Steven Abramowitz, MD

Vascular Surgery
MedStar Washington
Hospital Center
Washington, DC

Aaron W. Aday, MD, MSc

Vascular Medicine
Vanderbilt University
Medical Center
Nashville, Tennessee

Riyaz Bashir, MD

Interventional Cardiology
Temple University Hospital
Philadelphia, Pennsylvania

Iris Baumgartner, MD

Angiology
Swiss Cardiovascular Center
Bern, Switzerland

Stephen Black, MD

Vascular Surgery
St Thomas' Hospital
London, England

Teodora Bochnakova, MD

Interventional Radiology
Oregon Health &
Science University
Portland, Oregon

Scott Cameron, MD, PhD

Vascular Medicine
Cleveland Clinic
Cleveland, Ohio

Teresa Carman, MD

Vascular Medicine
University Hospitals Cleveland
Medical Center
Cleveland, Ohio

Venita Chandra, MD

Vascular Surgery
Stanford University
Medical Center
Stanford, California

Tony S. Das, MD

Interventional Cardiology
Connected Cardiovascular
Care Associates
Dallas, Texas

Steven M. Dean, DO

Vascular Medicine
The Ohio State University
Wexner Medical Center
Columbus, Ohio

Kush R. Desai, MD

Interventional Radiology
Northwestern University
Feinberg School of Medicine
Chicago, Illinois

Chelsea Dorsey, MD

Vascular Surgery
University of Chicago
Chicago, Illinois

Steve Elias, MD

Vascular Surgery
Englewood Hospital and
Medical Center
Englewood, New Jersey

Kathleen Gibson, MD

Vascular Surgery
Lake Washington
Vascular Surgeons
Bellevue, Washington

Manj Gohel, MD

Vascular Surgery
Cambridge University Hospitals
Cambridge, England



FACULTY

Karem Harth, MD

Vascular Surgery
University Hospitals Cleveland
Medical Center
Cleveland, Ohio

Lowell S. Kabnick, MD

Vascular Surgery
Atlantic Health Morristown
Medical Center
Far Hills, New Jersey

Yogen Kanthi, MD

Vascular Medicine
National Heart, Lung, and
Blood Institute
Bethesda, Maryland

John A. Kaufman, MD

Interventional Radiology
Oregon Health &
Science University
Portland, Oregon

Minhaj S. Khaja, MD, MBA

Interventional Radiology
University of Michigan
Ann Arbor, Michigan

Neil Khilnani, MD

Interventional Radiology
Weill Cornell Medicine-New York
Presbyterian Hospital
New York, New York

S. Jay Mathews, MD, MS

Interventional Cardiology
Manatee Memorial Hospital /
Bradenton Cardiology Center
Bradenton, Florida

Mark H. Meissner, MD

Vascular Surgery
University of Washington School
of Medicine
Seattle, Washington

Mahmood Razavi, MD

Interventional Radiology
St Joseph Heart & Vascular Center
Orange, California

Thom Rooke, MD

Vascular Medicine
Mayo Clinic
Rochester, Minnesota

Saher Sabri, MD

Interventional Radiology
MedStar Georgetown
University Hospital
Washington, DC

Aditya Sharma, MBBS

Vascular Medicine
University of Virginia
Charlottesville, Virginia

Mitchell Silver, DO

Interventional Cardiology
OhioHealth Riverside
Methodist Hospital
Columbus, Ohio

Akhilesh Sista, MD

Interventional Radiology
Weill Cornell Medicine
New York, New York

Sunita Srivastava, MD

Vascular Surgery
Massachusetts General Hospital
Boston, Massachusetts

Suresh Vedantham, MD

Interventional Radiology
Washington University in
St. Louis
St. Louis, Missouri

Suman Wasan, MD

Vascular Medicine
UNC REX Healthcare
Raleigh, North Carolina

Ronald S. Winokur, MD

Interventional Radiology
Thomas Jefferson University
Philadelphia, Pennsylvania



SUNDAY, OCTOBER 30

7:55am **WELCOME TO THE VEINS 2022**

MEDICAL MANAGEMENT

8:00am Anticoagulation for Acute VTE: How Long Is Long Enough?
8:08am VTE in Challenging Populations: Tips From an Expert
8:16am Cancer-Associated VTE: Which Anticoagulant to Use?
8:33am Chronic Venous Insufficiency: Medical Therapy Options Besides Compression
8:41am Using Imaging to Guide Post-Thrombotic Syndrome Management

PE

9:00am Case of an Intermediate- to High-Risk PE With Various Treatment Options
9:07am Anticoagulation Alone is the Best Therapy for Intermediate- to High-Risk PE
9:14am Catheter-Directed Thrombolysis Is the Best Therapy for Intermediate- to High-Risk PE
9:21am Catheter Thrombectomy Is the Best Therapy for Intermediate- to High-Risk PE
9:37am Residual Pulmonary Vascular Obstruction: Does It Matter?
9:44am Optimal Follow-Up for Patients With Intermediate- to High-Risk PE

DEEP VEIN DISEASE: ACUTE

10:30am Acute DVT Case Presentation
10:37am Updates on Recent Venous Stent Trials
10:44am Treatment of Acute DVT
10:51am Management of Acute DVT in Pregnancy
10:58am Medical Management Post Stenting for Acute DVT
11:05am Management of Acute Upper Extremity DVT
11:12am Complications of Thrombectomy and Stent Placement

11:30am THE VEINS AWARD PRESENTATION

The 2022 award ceremony will feature a panel discussion with The VEINS Co-Course Directors and Scientific Committee.



THE VEINS AWARD

The VEINS (Venous Educator, Innovator, and National Statesman) Award celebrates individuals who have made significant contributions to improving the care of patients with venous disease.

The VIVA Foundation is proud to honor Dr. Raghu Kolluri as a leader in venous education and patient care. In addition to his work as the Founder and Co-Course Director of The VEINS conference, Dr. Kolluri serves as the System Medical Director of Vascular Medicine for OhioHealth System and Riverside Methodist Hospital, the President of Syntropic CoreLab, a Clinical Professor of Medicine at Ohio University Heritage College of Osteopathic Medicine, and a member of the VIVA Board of Directors.

He has authored numerous articles and book chapters, and has lectured extensively on vascular disease. His research interests include DVT prophylaxis and vascular testing.

Read about our distinguished award recipients at viva-foundation.org/awards.



Raghu Kolluri, MD, MS

SUNDAY, OCTOBER 30

DEEP VEIN DISEASE: CHRONIC

- 1:30pm** Chronic DVT Case Presentation
- 1:37pm** Superior Vena Cava Syndrome
- 1:44pm** IVC Syndrome: Malignant and Chronic
- 1:51pm** Tips, Tricks, and Tools for Recanalization of Occluded Deep Veins
- 1:58pm** Assessing Venous Inflow
- 2:05pm** Choosing the "Right" Stent for the Right Lesions
- 2:12pm** Medical Management Post Stenting of Chronic Deep Vein Disease

SWOLLEN LEG

- 2:30pm** Swollen Leg Case Presentation
- 2:37pm** First Visit Evaluation of Swollen Limb
- 2:44pm** Lymphedema Management: State of the Art
- 2:51pm** Lipedema and Overlap Syndromes: Treatment Algorithm
- 2:58pm** Compression From A to Z
- 3:05pm** Treatment Options for Venolymphatic Edema
- 3:12pm** Modern Management of Stage 3 Lymphedema

DEEP VEIN DISEASE: COMPLEX

- 4:00pm** Complex Venous Case Presentation
- 4:07pm** Complex Filter Retrieval
- 4:14pm** Stent Migration: Why and What to Do
- 4:21pm** Stent Failures: Treatment Options
- 4:28pm** Valve Transfers vs Neovalve Creation: What Does the Data Show?
- 4:35pm** My Worst Day in the Lab: 2 Case Presentations



NEW

CASES AND CONVERSATION

- 5:00pm** Present your case from The VEINS mainstage! Each day of the 2022 conference will end with attendee-submitted case presentations with Q&A from a multidisciplinary panel.



SUBMIT YOUR CASE

Deadline to submit: September 18

The VEINS 2022 attendees will receive additional instructions for submitting their case after registering for the conference.

THE VEINS RECEPTION

Join your colleagues for a welcome reception following the conclusion of the main session on Sunday, October 30. We will enjoy food and drinks in The VEINS exhibit hall from 5:30-6:30pm. Admission is included in your course registration, and guest tickets may be purchased for an additional fee.

MONDAY, OCTOBER 31

BLUE SKY BREAKFAST: THE VEINS INNOVATION SUMMIT*

7:00am Join colleagues and faculty for breakfast and catch a glimpse of the next chapter of technology in venous care.

SUPERFICIAL VEIN DISEASE: THE BASICS

8:00am Economics and Healthcare Issues in Venous Disease
8:07am The New CEAP System: Why and How?
8:14am Ultrasound Evaluation of Superficial Venous Disease
8:30am Compression Therapy First: When and How Long?
8:37am Saphenous Vein Ablation: What Is the Best Treatment?
8:44am Management of Perforators

NEW

LATE-BREAKING CLINICAL TRIALS

9:00am Attendees will be the first to hear the latest in venous data with multidisciplinary analysis and Q&A.

VENOUS DISEASE TREATMENT PATHWAYS SUPERFICIAL: ALL IN THE LEGS

10:30am What Have We Learned With Cyanoacrylate?
10:37am Recurrent Venous Disease: Clinical Algorithm and Treatment
10:44am Ulcers: C5 and C6 Disease Management and Treatment
11:00am Calf DVT and Superficial Thrombophlebitis
11:07am Management of Severe Arterial and Venous Disease
11:14am Management of Reproductive Age Women: Ablate or Not?

POTPOURRI

11:30am How to Develop a Successful Venous Practice
11:37am Management of Mesenteric Venous Occlusion
11:44am Endovascular Management of Recurrent Varicocele
11:51am COVID-19 and Anticoagulants: Where Are We Now?
11:57am Hypercoagulable Workup: Who Actually Needs to be Tested?
12:03pm Management of Complex Venous Malformations



MONDAY, OCTOBER 31

DIALYSIS AND CENTRAL VEIN

- 1:30pm** Racial and Socioeconomic Disparities in Hemodialysis Care
1:37pm Patient Evaluation for Novel AV Dialysis Access: What Is Different From a Traditional Approach?
- 1:44pm** AVF Creation: Algorithm for Surgical Access Choice
1:51pm How to Manage Steal
1:58pm Complex Access for Dialysis: When Traditional Access Fails
2:05pm Treating Venous Problems in AV Access: Failure to Mature?
2:12pm Stenting vs Balloon Angioplasty for Venous Outflow Stenosis



VENOUS DISEASE TREATMENT PATHWAYS: BEYOND SUPERFICIAL REFLUX TREATMENT

- 2:30pm** Wound Management 101 to Advanced
2:37pm Managing Deep or Superficial Disease: What Comes First?
2:44pm Rare Venous Syndromes: Identification and Treatment Plan
3:00pm Associated Conditions: Nonsaphenous Vein Reflux—Where Does It Come From?
3:07pm When the Deep System Is Compromised: Post-Thrombotic Management of Venous Disease
3:14pm Complex Case Presentation: Deep + Superficial + Perforators

PELVIC VEIN DISEASE

- 4:00pm** Symptom Varices Pathology: Nomenclature and Examples
4:07pm Updates on PVD: Where Are We Now?
4:14pm What Is the Best Embolic Agent for Pelvic Venous Reflux?
4:30pm Iliac Vein Obstruction and Nutcracker Syndrome: What Order to Treat?
4:37pm Surgical Options for Nutcracker Syndrome
4:44pm How to Manage Persistent Pelvic Pain After Embolization

NEW

CASES AND CONVERSATION

- 5:00pm** The VEINS 2022 will conclude with a final selection of attendee-submitted cases, with Q&A from our expert faculty.



SUBMIT YOUR CASE

Deadline to submit: September 18

The VEINS 2022 attendees will receive additional instructions for submitting their case after registering for the conference.

REGISTRATION

TUITION RATES

Register early to secure tuition discounts! Tuition fees include all course materials, attendance to all sessions, and access to the Virtual VIVA app. Payment in full is required to confirm your registration.

Join us as we
celebrate
VIVA's 20th
anniversary,
live in
Las Vegas!

VIVA 22	EARLY BIRD Ends July 11	PRIME July 12 - September 12	STANDARD September 13 - November 3
Physicians (U.S. and International)	\$1,195	\$1,395	\$1,545
Active Duty Military	\$100	\$100	\$100
Nurses, Techs, HCPs	\$750	\$750	\$750

VIVA FACE-OFF	SCHOLARSHIP ELIGIBILITY Ends August 2	STANDARD August 3 - November 3	REQUIREMENTS
U.S. Physicians in Training	Free	Register as physician	Fellowship verification letter

THE VEINS	EARLY BIRD Ends July 11	PRIME July 12 - September 12	STANDARD September 13 - November 3
Physicians (U.S. and International)	\$600	\$600	\$750
Active Duty Military	\$50	\$50	\$50
Nurses, Techs, HCPs	\$500	\$500	\$500

INDUSTRY PROFESSIONALS	-	PRIME August 1 - September 12	STANDARD September 13 - November 3
VIVA	-	\$1,395	\$1,545
The VEINS	-	\$600	\$750

VIRTUAL VIVA	
Active Duty Military	Free
VIVA	\$750
The VEINS	\$350

REGISTER ONLINE TODAY:
viva-foundation.org/register

Cancellation Policy

Cancellations through your online account by September 26 will be accepted less a 15% administrative fee. Refunds are not available within 48 hours of registration to allow for credit card settlement. Once registration is canceled in your online account, refunds will be settled within 7 days.

No refunds will be given after September 26. Refunds or credits will not be given for failure to attend, late arrival, unattended events, or early departure. VIVA is not responsible for airfare, hotel, or other costs incurred by participants in the event of registration cancellation for any reason.

Note that for physicians attending the event virtually, tuition is nonrefundable and cancellations will not be accepted.

In the event that VIVA and/or The VEINS are amended to be held virtually due to COVID-19, in-person registrations will be transferred to virtual-only registrations and the difference will be refunded.



ON-SITE REGISTRATION AND CHECK-IN HOURS

All times are listed in Pacific Time.

DAY	TIME
Saturday, October 29	3:00 - 5:00pm
Sunday, October 30	6:45am - 5:30pm
Monday, October 31	6:45am - 5:15pm
Tuesday, November 1	6:30am - 5:00pm
Wednesday, November 2	7:30am - 5:00pm
Thursday, November 3	8:00am - 12:00pm

EXHIBIT PAVILION HOURS

The VEINS

DAY	TIME
Sunday, October 30	7:15am - 6:30pm
Monday, October 31	7:15am - 4:00pm

VIVA Pre-Course

DAY	TIME
Monday, October 31	7:15am - 4:00pm

VIVA

DAY	TIME
Tuesday, November 1	7:30am - 4:00pm
Wednesday, November 2	7:30am - 7:15pm



ACCOMMODATIONS/RESERVATIONS

Wynn Las Vegas
3131 Las Vegas Boulevard South
Las Vegas, Nevada 89109

After registering for the conference you will receive a confirmation email with a link to the hotel booking page. Note that industry registration will open on August 1. Exhibiting companies will receive the hotel booking link in their booth confirmation email.

VIVA has reserved a block of rooms at the discounted rate of \$274 per night plus tax (currently 13.38%). This rate includes access to the fitness center, internet access for up to four devices, boarding pass printing, daily newspapers, and more. A nonrefundable deposit of the first night's room and tax will be required to confirm all reservations.

Reservations are accepted on a first-come, first-served basis and will be accepted until October 4 at 5:00pm PT, or until the room block fills, whichever occurs first. The room block will fill up quickly, so registering for the conference and making your hotel reservation should be completed as soon as possible.

A charge of \$50 per person per night will apply to each guest over double occupancy.

