

VIVA AND  
THE VEINS  
RETURN **LIVE**  
TO WYNN  
LAS VEGAS

THE 19<sup>TH</sup> ANNUAL

*Vascular InterVentional Advances*



**OCTOBER 4-7, 2021 • WYNN LAS VEGAS**



THE 11<sup>TH</sup> ANNUAL

*Venous Endovascular  
INterventional Strategies*



**OCTOBER 3-4, 2021 • WYNN LAS VEGAS**



THE GLOBAL EDUCATION COURSES FOR  
VASCULAR MEDICINE AND INTERVENTION

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

[vivaphysicians.org](http://vivaphysicians.org)



## MULTIDISCIPLINARY • INNOVATIVE • TRANSFORMATIVE

Now in its 19th year, VIVA continues to offer unparalleled endovascular education with a curriculum designed to engage practitioners across a variety of specialties. We are thrilled to return to Wynn Las Vegas once again to bring together our celebrated faculty of leading clinicians and researchers in interventional cardiology, interventional radiology, vascular medicine, and vascular surgery with the shared goal to present an impactful, transformative series of educational sessions.

VIVA21 will explore new and evolving therapies, best practices, and ongoing controversies to enhance your clinical perspective. Each session features multidisciplinary panels selected to foster a lively, interactive learning environment and provide a balanced look at the current state and future of endovascular care. In 2021 we are pleased to present:

- Great Debates, offering competing views from expert clinicians
- Groundbreaking research and trial data in the Late-Breaking Clinical Trials and Drinks and Data sessions
- International live cases from the U.S. and Germany
- Pre-courses focused on critical limb-threatening ischemia and aortic intervention
- Innovation sessions exploring tech development and the digitization of healthcare

Reflecting on the past year, VIVA and The VEINS remain mindful of the ongoing effects of COVID-19. As in-person meetings and activities slowly resume, VIVA is committed, to the extent possible, to providing a safe environment to attendees, faculty, exhibitors and staff. Las Vegas is taking steps toward a full reopening, including monitoring community vaccination rates and declining infection rates. Though these metrics may modify social distancing requirements in the near future, we remain committed to following the recommended safety protocols outlined by Wynn and the state and local mandates at the time of the VIVA conference. This may require all attendees to be vaccinated, which will be communicated as we get closer to the conference.

Visit [vivaphysicians.org](http://vivaphysicians.org) to learn more and to register for VIVA and The VEINS 2021. We look forward to seeing you in Las Vegas this fall.

A handwritten signature in black ink, appearing to read 'Josh Beckman'.

**Joshua Beckman, MD**  
VIVA Board President

## BOARD OF DIRECTORS

**Ehrin Armstrong, MD**  
Interventional Cardiology  
Adventist Health St. Helena  
St. Helena, California

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

**Venita Chandra, MD**  
Vascular Surgery  
Stanford University  
Medical Center  
Stanford, California

**Tony Das, MD**  
Interventional Cardiology  
Connected Cardiovascular  
Care Associates  
Dallas, Texas

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

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

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

**John Laird Jr, MD**  
Interventional Cardiology  
Adventist Health St. Helena  
St. Helena, California

**Sean Lyden, MD**  
Vascular Surgery  
Cleveland Clinic  
Cleveland, Ohio

**D. Christopher Metzger, MD**  
Interventional Cardiology  
Ballad CVA Heart Institute  
Kingsport, Tennessee

**Saher Sabri, MD**  
Interventional Radiology  
MedStar Washington  
Hospital Center  
Washington, DC

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

**Niten Singh, MD**  
Vascular Surgery  
Harborview Medical Center  
Seattle, Washington



# TABLE OF CONTENTS

## V I V A 21 October 4-7

Faculty ..... 4-5  
 CME Accreditation ..... 6

### Agenda

Monday Pre-Courses ..... 7  
 Tuesday ..... 8  
 Wednesday ..... 9  
 Thursday ..... 10

Face-Off ..... 11  
*The registration deadline is July 19.  
 Scholarship applications and Face-Off presentations are due August 2.*

## THE VEINS AT VIVA October 3-4

The VEINS Welcome Letter ..... 12  
 Course Directors and Scientific Committee ..... 12  
 Faculty ..... 13  
 CME Accreditation ..... 14

### Agenda

Sunday ..... 15  
 Monday ..... 16

Virtual VIVA ..... 17  
 Registration ..... 18  
 Accommodations and On-Site Hours ..... 19

## TUITION RATE DEADLINES

|              |                     |                         |
|--------------|---------------------|-------------------------|
| <b>Early</b> | <b>Prime</b>        | <b>Standard</b>         |
| Ends June 14 | June 15 - August 31 | September 1 - October 7 |

*Industry registration will open on Monday, August 2.  
 See page 18 for complete registration & tuition information.*

# NEW IN 2021

## INNOVATION SESSIONS

Experts will explain the process of developing and bringing new devices to the market in the vascular space. Topics from intellectual property to commercialization from world experts with proven track records will explore what's next in Digital Health, AI, and machine learning. Come ready to learn what to expect as the biggest tech companies continue to shape the future of healthcare. *More on page 10.*

## 15-MINUTE MENTORING

Early career clinicians—now is your chance to engage leaders and make connections. On Thursday, October 7, VIVA will host its first-ever 15-Minute Mentoring sessions. Members of VIVA's Board of Directors and faculty will be available on a first-come, first-served basis to answer your burning questions about early career strategies and life in academics, research, or private practice. You have the floor!

Space is limited, so sign up early on-site at VIVA21.



# FACULTY

## INTERVENTIONAL CARDIOLOGY

**George Adams, MD, MHS, MBA**  
UNC REX Healthcare  
Raleigh, North Carolina

**Gary Ansel, MD**  
University of Toledo  
Columbus, Ohio

**Subhash Banerjee, MD**  
UT Southwestern Medical  
Center / VA North Texas  
Dallas, Texas

**Charles Botti Jr, MD**  
OhioHealth Riverside  
Methodist Hospital  
Columbus, Ohio

**Joseph Campbell, MD**  
Cleveland Clinic  
Cleveland, Ohio

**Peter Fitzgerald, MD, PhD**  
Stanford University  
Medical Center  
Stanford, California

**Lawrence A. Garcia, MD**  
Steward St. Elizabeth's  
Medical Center  
Boston, Massachusetts

**Jay Giri, MD, MPH**  
Hospital of the University  
of Pennsylvania  
Philadelphia, Pennsylvania

**Prakash Krishnan, MD**  
Mount Sinai  
New York, New York

**Jun Li, MD**  
University Hospitals Cleveland  
Medical Center  
Cleveland, Ohio

**Sahil A. Parikh, MD**  
New York Presbyterian /  
Columbia University Irving  
Medical Center  
New York, New York

**John Phillips, MD**  
OhioHealth Riverside  
Methodist Hospital  
Columbus, Ohio

**Kenneth Rosenfield, MD**  
Massachusetts General Hospital  
Boston, Massachusetts

**Ravish Sachar, MD**  
UNC REX Healthcare  
Raleigh, North Carolina

**Eric A. Secemsky, MD, MSc**  
Beth Israel Deaconess  
Medical Center / Harvard  
Medical School  
Boston, Massachusetts

**Mehdi Shishehbor, DO, MPH, PhD**  
University Hospitals Cleveland  
Medical Center  
Cleveland, Ohio

**Peter A. Soukas, MD**  
Cardiovascular Institute  
Providence, Rhode Island

## INTERVENTIONAL RADIOLOGY

**J. Fritz Angle, MD**  
University of Virginia  
Charlottesville, Virginia

**Laura K. Findeiss, MD**  
Emory Healthcare  
Atlanta, Georgia

**Mark J. Garcia, MD**  
EndoVascular Consultants  
Wilmington, Delaware

**Andrew Holden, MBChB**  
Auckland Hospital  
Auckland, New Zealand

**Sanjay Misra, MD**  
Mayo Clinic  
Rochester, Minnesota

**Isabel Newton**  
VA San Diego Healthcare  
System / University of  
California San Diego  
San Diego, California

**Parag J. Patel, MS, MD**  
Medical College of Wisconsin  
Milwaukee, Wisconsin

**Constantino Peña, MD**  
Miami Cardiac &  
Vascular Institute  
Miami, Florida

**Alex Powell, MD**  
Miami Cardiac &  
Vascular Institute  
Miami, Florida

**Mahmood Razavi, MD**  
St Joseph Heart &  
Vascular Center  
Orange, California

**John Rundback, MD**  
Advanced Interventional &  
Vascular Services, LLP  
Teaneck, New Jersey

**Gloria M. Salazar, MD**  
Massachusetts General  
Hospital / Harvard  
Medical School  
Boston, Massachusetts

**Allison Tan, MD**  
Thomas Jefferson University  
Philadelphia, Pennsylvania

**Suresh Vedantham, MD**  
Washington University  
in St. Louis  
St. Louis, Missouri

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

## VASCULAR MEDICINE

**J. Michael Bacharach, MD**  
North Central Heart Institute  
Sioux Falls, South Dakota

**Geoffrey Barnes, MD, MSc**  
University of Michigan  
Ann Arbor, Michigan

**Marc Bonaca, MD, MPH**  
University of Colorado  
Aurora, Colorado

**Marianne Brodmann, MD**  
Medical University Graz  
Graz, Austria

**Scott Cameron, MD**  
Cleveland Clinic  
Cleveland, Ohio

**Bruce H. Gray, DO**  
Prisma Health System  
Greenville, South Carolina

**Michael R. Jaff, DO**  
Harvard Medical School  
Maple Grove, Minnesota

**Daniella Kadian-Dodov, MD**  
Icahn School of Medicine at  
Mount Sinai  
New York, New York

**Nicholas Leeper, MD**  
Stanford University Medical Center  
Stanford, California

**Suman Wasan, MD**  
UNC REX Healthcare  
Raleigh, North Carolina

**Thomas Zeller, MD, PhD**  
Universitäts-Herzzentrum  
Freiburg-Bad Krozingen  
Bad Krozingen, Germany



## VASCULAR SURGERY

### **Ali Azizzadeh, MD**

Cedars-Sinai Smidt  
Heart Institute  
Los Angeles, California

### **Trissa Babrowski, MD**

University of Chicago  
Medical Center  
Chicago, Illinois

### **Daniela Branzan, MD**

University Hospital Leipzig  
Leipzig, Germany

### **Frank Caputo, MD**

Cleveland Clinic  
Cleveland, Ohio

### **Koen R. Deloose, MD**

az Sint-Blasius  
Dendermonde, Belgium

### **Brian DeRubertis, MD**

UCLA-Ronald Reagan  
Medical Center  
Los Angeles, California

### **Matthew Eagleton, MD**

Massachusetts General Hospital  
Boston, Massachusetts

### **Caitlin Hicks, MD**

Johns Hopkins University  
School of Medicine  
Baltimore, Maryland

### **Angela Kokkosis, MD**

Stony Brook  
University Hospital  
Stony Brook, New York

### **Jason T. Lee, MD**

Stanford University  
Medical Center  
Stanford, California

### **Miguel Montero-Baker, MD**

Baylor College of Medicine  
Houston, Texas

### **Gustavo S. Oderich, MD**

McGovern Medical School  
at UTHealth  
Houston, Texas

### **Jean Panneton, MD**

EVMS Division of  
Vascular Surgery  
Norfolk, Virginia

### **Elina Quiroga, MD**

University of Washington  
Seattle, Washington

### **Darren B. Schneider, MD**

University of Pennsylvania,  
Perelman School of Medicine  
Philadelphia, Pennsylvania

### **Sherene Shalhub, MD, MPH**

University of Washington  
Seattle, Washington

### **Christopher J. Smollock, MD**

Cleveland Clinic  
Cleveland, Ohio

### **Benjamin Starnes, MD**

University of Washington  
Seattle, Washington

### **Karen Woo, MD, PhD**

UCLA Division of  
Vascular Surgery  
Los Angeles, California

## ANGIOLOGY

### **Dierk Scheinert, MD**

University Hospital Leipzig  
Leipzig, Germany

### **Andrej Schmidt, MD**

University Hospital Leipzig  
Leipzig, Germany

## 2021 AWARD RECIPIENTS

### LIVE AWARD

#### **James F. Benenati, MD**

Interventional Radiology  
Miami Cardiac &  
Vascular Institute  
Miami, Florida

### ATLAS AWARD

#### **Jerry Bartholomew, MD**

Vascular Medicine  
Cleveland Clinic  
Cleveland, Ohio

### VCA AWARD

#### **Venita Chandra, MD**

Vascular Surgery  
Stanford University  
Medical Center  
Stanford, California

### VCA AWARD

#### **Yoshimitsu Soga, MD, PhD**

Interventional Cardiology  
Kokura Memorial Hospital  
Fukuoka, Japan

*Read about our  
distinguished award  
recipients at  
[vivaphysicians.org/awards](http://vivaphysicians.org/awards).*

## 2021 KEYNOTE SPEAKER

### **Lee A. Fleisher, MD**

Chief Medical Officer, Director  
The Center for Clinical Standards and Quality  
Baltimore, Maryland



## INNOVATIONS SPEAKERS

### **Todd Brinton, MD**

Edwards Lifesciences  
Irvine, California

### **Louis A. Cannon, MD**

Cardiac & Vascular Research  
Center of Northern Michigan  
Charlevoix, Michigan

### **Brian Doughty, MBA, MPA**

Delta Force Group, Inc.  
Mooresville, North Carolina

### **Hanson S. Gifford III, BSME**

The Foundry, LLC /  
Lightstone Ventures  
Menlo Park, California

### **Preeti Jois, MD, MBA**

Humana  
Tampa, Florida

### **Jeff Mirviss, MBA**

Boston Scientific  
Maple Grove, Minnesota

### **Mintu Turakhia, MS, MD**

Stanford University  
Medical Center  
Stanford, California

### **Nicolaus Wilson**

Philips  
Cambridge, Massachusetts

## VIVA IS MULTIDISCIPLINARY

- Representation from all stakeholders in PVD care
- Productive discourse and debate between specialties
- Leaders at the forefront of endovascular care and technology offering unique viewpoints



# CME ACCREDITATION

CME certificates will be available beginning October 8, 2021.

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 VIVA Physicians. 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 **21.3 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.



## MONDAY PRE-COURSES

- Aortic: 3.5
- CLTI: 3.5

## WEDNESDAY

- Global Theater: 6.25
- Spotlight Theater: 3.9

## TUESDAY

- Global Theater: 6.3
- Spotlight Theater: 3

## THURSDAY

- Global Theater: 5.25
- Spotlight Theater: 3.9

## 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 outcomes for hemodialysis vascular access as well as medical, interventional, and surgical therapies for peripheral arterial and venous diseases.
- 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.

## 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

VIVA 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 manufacture(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.

# MONDAY, OCTOBER 4 · PRE-COURSES

## CLTI

### STRATEGIES & CASE MANAGEMENT

1:30 - 2:45pm

- The Cost of CLTI and Vascular Care: How Many Amputations Occur Each Year, and What Is the Cost of CLTI to the Patient and Society?
- Risk Stratification Using WIFI and GLASS (Global Limb Anatomic Staging System) Scores: How Do These Apply to Decision-Making?
- Case Planning: Angiosomes, Angiographosomes, and Target Artery Path. What Are the Preprocedural and Intraprocedural Considerations?
- Is There a Role for Endovascular Therapy in Rutherford 6 Patients? How Should I Approach These Patients?



#### CLTI KEYNOTE

**The Importance of the “Toe and Flow” Concept, Models for Team Care, Standardizing Wound Management, and Best Practices for Long-Term Care**

Miguel Montero-Baker, MD

### DISRUPTERS & EMERGING TECHNOLOGY

3:25 - 4:25pm

- Specialty Balloons and Intravascular Lithotripsy for BTK Application: How to Apply These for Optimal Angioplasty
- Current and Future BTK Stent Technology
- Tacks and Other Novel Scaffolds for BTK Application
- Drug-Coated Balloons BTK: What Is the Evidence for Paclitaxel? What Is the Status of Limus-Based DCB?
- Perfusion Monitoring: Will New Technologies Impact Our Definitions of Procedural Success?

### “NO OPTION” OPTIONS

4:25 - 5:40pm

- Targeted Revascularization of Vascular Compartments in the Foot
- Deep Venous Arterialization: Case Selection, Outcomes, and Managing Complications
- Deep Venous Arterialization: Tips and Techniques
- Stem Cell and Cytokine-Based Therapies: Will These Change Our Management of CLTI in the Next 5 years?
- Sympathectomy and Spinal Cord Stimulators: What Are the Applications in Advanced CLTI?
- My Best CLTI Case of the Year and What I Learned

## AORTIC



### FEVAR/CHIMPS/BRANCHED TEVAR

1:30 - 2:45pm

- FEVAR Planning Made Easy: How I Do It
- CHIMPS Has a Role in Your Practice and These Are the Situations to Employ It
- Iliac Branch Devices Should Be the Norm, Not Coiling and Covering the Internal Iliac Artery
- Branched TEVAR: Progress and Remaining Challenges
- Rescuing Failed F/BEVAR: How I Do It
- The Need for Regionalization of Care for Complex Aortic Pathology

### DISSECTION

3:25 - 4:25pm

- Branched TEVAR: Will Carotid Subclavian Transposition and Bypass Become Obsolete?
- Is TEVAR a Safe Strategy in Genetically Triggered Aortopathies?
- Acute TBAD: Do Alternative Strategies vs Central Aortic Repair Make Sense?
- Managing Branch Vessels in Chronic Dissections
- False Lumen Obliteration Techniques

### MISCELLANEOUS AORTIC

4:25 - 5:40pm

- Failure of SAC Regressions and Implications on Mortality
- Update on Adjunctive Proximal Fixation: Results of Endoanchors
- Minimizing Radiation Exposure During Complex Aortic Repair
- Blunt Aortic Injury: Lessons Learned
- Visceral Aneurysms: Indications and Timing of Intervention
- Lumbar Drains With Extensive Aortic Coverage

## VIVA IS INNOVATIVE

- Disruptive Technology: Applications for new and emerging technologies that will change the field of PVD
- Innovation Summit: How to turn novel ideas into reality, and how new technology is changing the future of healthcare

# TUESDAY, OCTOBER 5



## COVID CONUNDRUMS: THE GLOBAL IMPACT ON VASCULAR CARE

8:00 - 9:15am

- VIVA Returns Live! Changes in the Vascular Space Since We Last Met
- Vascular Considerations in COVID and COVID-Recovered Patients
- COVID Impact: A Vascular Industry Perspective
- The Effects of COVID on Research and Education
- Looking Forward as a Vascular Field After COVID

## LATE-BREAKING CLINICAL TRIALS

9:15 - 10:10am

## LIVE CASE DEMONSTRATIONS

10:45am - 12:00pm

OhioHealth Riverside Methodist Hospital

**Live Case Site Operators: Charles Botti Jr, MD; John Phillips, MD**

Columbus, Ohio

## LATE-BREAKING CLINICAL TRIALS

1:15 - 2:10pm

## LIVE CASE DEMONSTRATIONS

2:10 - 3:05pm

Stanford University Hospital

**Live Case Site Operator: Venita Chandra, MD**

Stanford, California

## LIVE and ATLAS Awards

3:05 - 3:25pm

**LIVE Award: A Leader In Vascular Education**  
James F. Benenati, MD



**ATLAS Award: A Teacher, Leader, And Scholar**  
Jerry Bartholomew, MD



*Read about our distinguished award recipients at [vivaphysicians.org/awards](http://vivaphysicians.org/awards).*



## VIVA21 Keynote

4:00 - 4:45pm

**The Healthcare Ecosystem Post Pandemic:  
A CMS Perspective**

Lee A. Fleisher, MD

## SPOTLIGHT THEATER

### CLTI-BTK

11:00am - 12:00pm

- When Is Surgical Bypass the Way to Go?
- Alternative and Unique Access Techniques for the CLTI Patient
- BTA Endo: When Are They Truly Needed and How Do I Do Them?
- CLTI Cases: Heavy Calcium, Dissection/Scaffolding, and Deep Venous Arterialization

### WOUND CARE MANAGEMENT

2:15 - 3:15pm

- What's the Etiology of This Wound and How Do I Treat It?
- Algorithms for Initial Wound Assessment and Wound Care
- Can We Heal All Wounds? How to Recognize the Unsalvageable Foot
- My Puzzling Wound Cases

### FEMOROPOPLITEAL

4:00 - 5:00pm

- How I Perform Endo Interventions for Long Femoropopliteal Disease
- Recurrent Fem-Pop Cases: What to Do With Repeat Failures
- How to Manage Severe Calcium in Fem-Pop Interventions
- Fem-Pop Cases

## VIVA IS TRANSFORMATIVE

- Debates and discussions featuring all vascular specialties to expand your perspective
- Challenging live case presentations
  - Practice-changing data in the Late-Breaking Clinical Trials and Drinks and Data sessions





# WEDNESDAY, OCTOBER 6



## LINC AT VIVA

### LATE-BREAKING CLINICAL TRIALS

8:05 - 9:15am

9:15 - 10:10am

### LIVE CASE DEMONSTRATIONS

10:45am - 12:00pm

University Hospital Leipzig

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

### LATE-BREAKING CLINICAL TRIALS

1:15 - 2:10pm

### LIVE CASE DEMONSTRATIONS

2:10 - 3:10pm

Advanced Interventional & Vascular Services

**Live Case Site Operator: John Rundback, MD**  
Teaneck, New Jersey

### Vascular Career Advancement (VCA) Awards

Venita Chandra, MD

Yoshimitsu Soga, MD, PhD



3:10 - 3:25pm

*Read about our distinguished award recipients at [vivaphysicians.org/awards](http://vivaphysicians.org/awards).*

### GREAT DEBATES

4:00 - 5:00pm

- CFA: Surgery Is the Gold Standard!
- CFA: Endo Is Frontline and May Be the New Gold Standard
- Femoropopliteal Interventions: Strategies That Leave Nothing Behind Are Best!
- Femoropopliteal Interventions: Strategies Including Vessel Scaffolding Provide the Best Results!
- We've Examined the Data, It's Time to Accept PTX and Move On!
- Hold On... PTX Is a Major Issue and Its Use Should be Minimized!

## SPOTLIGHT THEATER



### AORTOILIAC

8:10 - 9:15am

- Aortoiliac Reconstruction: Best Techniques and Available Data
- Management of Heavy Calcium in Aortoiliac Disease
- Crossing Techniques for Aortoiliac Occlusion
- Aortoiliac Case Presentations

### COMPLICATIONS

11:00am - 12:00pm

- Access-Related Complications: How to Avoid Them, How to Manage Them
- Strategies to Prevent and Treat Vessel Perforations
- Complication Cases: External Iliac Perforation, Distal Embolization, Foreign Body Retrieval, and My Worst Complication

### CAROTID-BRACHIOCEPHALIC

2:15 - 3:15pm

- Subclavian Interventions: Tips and Tricks
- TCAR: Why We Have Adopted This, and Our Advice
- Transfemoral or Transradial CAS: Strategies to Maximize Embolic Protection
- Case Presentations: Innominate, Transfemoral, and TCAR

### AV DIALYSIS

4:10 - 5:00pm

- Building an EndoAVF Practice: Lessons Learned
- EndoAVF Creation: Techniques and Pitfalls
- Surgical AVF Access Remains the Standard
- DCB for AV Access Maintenance
- Stent Grafts for AV Access Salvage

## VIVA RECEPTION

Join your colleagues at the VIVA Reception following the conclusion of all sessions on Wednesday, October 6. We will convene on the ground floor of the new conference space to enjoy food, drinks, and entertainment. Admission to the reception is included in your course registration, and guest tickets may be purchased on-site for an additional fee.



## CAROTID, AORTIC, VENOUS

8:05 - 9:40am

- CEA Is Best for Carotid Disease
- TCAR Is Best for Carotid Disease
- TFCAS Is Best for Carotid Disease
- How and When I Treat DVT: All My Tips and Tricks
- Proximal, Symptomatic DVT Can and Should be Treated With Interventional Therapy, Sometimes in a Single Session
- Medical Therapy Is the Best Treatment for Symptomatic DVT
- How I Perform EVAR for Ruptured AAA
- EVAR: How Far Should We Go or Not Go Outside of the IFUs?

## FACE-OFF WINNER'S CIRCLE

9:40 - 10:00am

### INNOVATIONS—PART 1

10:35am - 12:00pm

- Turning a Novel Idea Into a Successful Device: The Shockwave Story
- I Think I Have a Great Device Idea: A 52-Point Vetting Process for Guaranteed Success
- How Do I Raise Money for My Idea? Winning Elevator Pitches and Lessons in Dilution
- How Long Does It Take to Get an Idea Off the Ground? How Do You Build a Team for Your Device?
- Developing Winning Intellectual Property: What Is the Secret Sauce?
- What's My Exit Strategy? What Are Strategics Looking for With Innovation in 2021?

### INNOVATIONS—PART 2

1:15 - 2:20pm

- The Digitization of Medicine and the Future of Digital Healthcare: How Facebook, Google, Amazon, Microsoft, and Apple Will Change Everything in Healthcare by 2025
- Digital Patient Data: AI, Machine Learning, and Sensor Technology in the New Era of Medicine. You Better Get Ready.
- How Do I Incorporate Digital Health Into My Practice Right Now? What Tools Exist Today?
- Why Doctors Aren't the Focus of Most Digital Health Tech Companies: The Future of Assessing Health Risk Scores with Big Data

## DRINKS AND DATA

2:20 - 3:30pm

- VIVA21 concludes with a review of some of the most clinically relevant trial data and celebratory refreshments.

## SPOTLIGHT THEATER



## VASCULAR MEDICINE WE NEED TO KNOW

8:00 - 9:10am

- Is Atherosclerosis Really the Same Disease in CLTI as CAD? Implications for Treatment
- Is CAS a CAD Risk Equivalent?
- Fibromuscular Dysplasia: All You Need to Know
- Submassive PE: Is Medical Therapy Best?
- Submassive PE and Thrombolytic Therapy: Ultrasound-Assisted or Catheter Alone? How Much and for How Long?
- Supervised Exercise for Claudicants: Let's Maximize This!
- State-of-the-Art Medical Therapy for PAD

## EMBOLIZATION: UNDERSTANDING THE TOOLKIT

9:10 - 10:00am

- When to Use Vascular Plugs, NCBA, and Onyx™
- When to Use Coils and How Each Coil Is Different
- ETOH, Particles, Beads, and the Rest

## VENOUS AND PULMONARY EMBOLIZATION

10:45 - 11:50am

- Is Maximized Medical Therapy the Preferred Treatment? How Can We Do It Best?
- Strategies for Acute Iliofemoral DVT Single-Session Mechanical
- Strategies for Acute Iliofemoral DVT Thrombolysis With Mechanical Assist
- PE Management: What Happens 3-6 Months Down the Road?
- Submassive Acute PE Single-Session Mechanical
- Submassive Acute PE Overnight Lysis Without Mechanical Assist
- CTEPH Interventional Therapy

## IVC, FILTERS, DVT

1:25 - 2:25pm

- AUC for IVC Filters
- Late Removal of Retrievable Filters: Indicated, or Disaster Waiting to Happen?
- The Impact of New Devices: Is Post-Thrombotic Syndrome Being Improved?
- Case Presentations: Complex IVC Reconstruction, Iliofemoral DVT Management in Pregnancy, and Complex IVC Filter Retrieval

NEW  
IN 2021

# FELLOWS & RESIDENTS



## VIVA FACE-OFF

- **Registration deadline is July 19**
- **Scholarship and presentation submission deadline is August 2**
- **Scholarships awarded August 12**

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 Global Theater on Thursday, October 7. Additional details are available at [vivaphysicians.org/physicians-in-training](http://vivaphysicians.org/physicians-in-training).

## PHYSICIANS-IN-TRAINING SCHOLARSHIP PROGRAM

A limited number of scholarships to attend VIVA and The VEINS are available for qualifying fellows and residents. Scholarships include registration costs, roundtrip economy airfare, and up to 5 nights' hotel room/tax (for arrival on either Saturday, October 2, for The VEINS or Sunday, October 3, for VIVA; departures should be after 6:00pm on October 7). Physicians in training must submit their scholarship application and a presentation for the Face-Off Competition by the August 2 deadline. Scholarship recipients must attend the full course, including required fellows 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 [vivaphysicians.org/physicians-in-training](http://vivaphysicians.org/physicians-in-training) for complete guidelines and application.

## FELLOWS SESSIONS & EVENTS

### MONDAY, NOVEMBER 4

#### Fellows & Residents Reception

5:40 - 7:00pm

Join us on the Cristal Terrace for a reception with program supporters and VIVA faculty.

### TUESDAY, OCTOBER 5

#### How to Find the Right First Job and Set Yourself Up for Success

7:00 - 7:55am

- How Do You Identify Available Jobs?
- Key Considerations for a First Private Practice Job
- Key Considerations for a First Academic Job
- Negotiating Your First Contract

### THURSDAY, OCTOBER 7

#### How to Have a Successful First Year

7:05 - 7:55am

- How to Approach Your First Year in Practice
- How to Collaborate in the Treatment of Vascular Disease
- Three Things I Wish I'd Done Differently in My First Year of Practice

#### Face-Off Winner's Circle

9:40 - 10:00am

The top Face-Off participants will present their work from the main stage. All fellows & residents must be present in the event their name is called.

## 15-MINUTE MENTORING

Sign up for 15-Minute Mentoring at VIVA21! Members of VIVA's Board of Directors and faculty will be available to answer questions about early career strategies, life in academics, research, private practice, and more. Check on-site for sign up details.


# THE VEINS AT VIVA

It is with great pleasure and enthusiasm that I take on the role of Course Director for The VEINS (Venous Endovascular Interventional Strategies) at VIVA 2021. This is the 11th year of this innovative and multidisciplinary global educational meeting for venous specialists.

With the support and leadership of my Co-Course Directors, Drs. Raghu Kolluri and Peter Schneider, and the 2021-22 Scientific Committee, we have designed a robust program to debate controversial topics, dive into current practice trends, and explore what's next in venous disease care. As always, attendees should take advantage of continuous opportunities to ask questions and interact with experts in interventional cardiology, interventional radiology, vascular medicine, and vascular surgery.

I especially look forward to the keynote address and discussion with internationally recognized researcher and epidemiologist, Dr. Mary Cushman, about the impact of 2020 on medical care. Additionally, this year's VEINS Award winner, Dr. Mark Meissner, will join Dr. Kolluri and me in a roundtable discussion about venous education and the future of venous care.

We are excited to return to Wynn Las Vegas live in October and hope you will take part in this unique program.



**Maureen P. Kohi, MD**  
The VEINS Course Director



## COURSE DIRECTOR

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

## CO-COURSE DIRECTORS

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

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

## SCIENTIFIC COMMITTEE

**Geoffrey Barnes, MD, MSc**  
Vascular Medicine and Cardiology  
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  
Massachusetts General Hospital /  
Harvard Medical School  
Boston, Massachusetts



# FACULTY

## INTERVENTIONAL CARDIOLOGY

### **Riyaz Bashir, MD**

Temple University Hospital  
Philadelphia, Pennsylvania

### **Jeff Carr, MD**

Tyler Cardiac and  
Endovascular Center  
Tyler, Texas

### **Tony Das, MD**

Connected Cardiovascular  
Care Associates  
Dallas, Texas

### **Jay Mathews, MD**

Manatee Memorial Hospital /  
Bradenton Cardiology Center  
Bradenton, Florida

### **Mitchell Silver, DO**

OhioHealth Riverside  
Methodist Hospital  
Columbus, Ohio

## INTERVENTIONAL RADIOLOGY

### **Kush R. Desai, MD**

Northwestern University Feinberg  
School of Medicine  
Chicago, Illinois

### **Mark J. Garcia, MD**

EndoVascular Consultants  
Wilmington, Delaware

### **Mona Gupta, MD**

Northwestern University Feinberg  
School of Medicine  
Chicago, Illinois

### **John A. Kaufman, MD**

Oregon Health and  
Science University  
Portland, Oregon

### **Minhaj S. Khaja, MD, MBA**

University of Virginia Health  
Charlottesville, Virginia

### **Mahmood Razavi, MD**

St Joseph Heart & Vascular Center  
Orange, California

### **Deepak Sudheendra, MD**

Hospital of the University  
of Pennsylvania  
Philadelphia, Pennsylvania

### **Suresh Vedantham, MD**

Washington University in St. Louis  
St. Louis, Missouri

### **Ronald S. Winokur, MD**

Thomas Jefferson University  
Philadelphia, Pennsylvania

## VASCULAR MEDICINE

### **Teresa Carman, MD**

University Hospitals Cleveland  
Medical Center  
Cleveland, Ohio

### **Michael R. Jaff, DO**

Harvard Medical School  
Maple Grove, Minnesota

### **Yogen Kanthi, MD**

National Heart, Lung, and  
Blood Institute  
Bethesda, Maryland

### **Thom Rooke, MD**

Mayo Clinic  
Rochester, Minnesota

### **Aditya Sharma, MBBS**

University of Virginia  
Charlottesville, Virginia

### **Suman Wasan, MD**

UNC REX Healthcare  
Raleigh, North Carolina

## ANGIOLOGY

### **Tim Sebastian, MD**

University Hospital Zurich  
Zurich, Switzerland

## 2021 AWARD RECIPIENT

### **The VEINS Award**

Mark H. Meissner, MD  
Vascular Surgery  
University of Washington School  
of Medicine  
Seattle, Washington

## VASCULAR SURGERY

### **Steve Elias, MD**

Englewood Hospital and  
Medical Center  
Englewood, New Jersey

### **Manj Gohel, MD**

Cambridge University Hospitals  
Cambridge, England

### **Lowell S. Kabnick, MD**

Atlantic Health Morristown  
Medical Center  
Far Hills, New Jersey

### **Erin Murphy, MD**

Sanger Heart & Vascular Institute -  
Atrium Health  
Charlotte, North Carolina

### **Andrea Obi, MD**

University of Michigan  
Ann Arbor, Michigan

### **Julianne Stoughton, MD**

Massachusetts General Hospital  
Boston, Massachusetts

## 2021 KEYNOTE SPEAKER

### **Mary Cushman, MD**

Epidemiology  
University of Vermont  
Larner College  
of Medicine  
Colchester, Vermont



# CME ACCREDITATION

## 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

Upon completion of The VEINS, learners should be able to:

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

## 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 VIVA Physicians.

The University at Buffalo Jacobs School of Medicine and Biomedical Sciences is accredited by the ACCME to provide continuing medical education for physicians.

## CERTIFICATION

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.

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

CME  
certificates will  
be available  
beginning  
October 8,  
2021.



Maureen P. Kohi, MD  
2021 Course Director  
VIVA Board of Directors



Raghu Kolluri, MS, MD  
The VEINS Founder  
2021 Co-Course Director  
VIVA Board of Directors



Peter A. Schneider, MD  
2021 Co-Course Director  
VIVA Board of Directors

# SUNDAY, OCTOBER 3



## THE BASICS

8:00 - 9:00am

- How to Make Physiological Sense of Reflux vs Obstruction: Where We Are and Where We Need to Be
- To Glue or Not to Glue: Positives and Pitfalls
- Mechano-Chemical Ablation: Who Is a Good Candidate?
- Venous Insufficiency Test Interpretation: When and What to Intervene On
- Foam Sclerotherapy: How Does It Compare to Other Choices?
- Should IVUS Be the Standard for Managing Post-Thrombotic Syndrome?

## PHARMACOTHERAPY IN VTE

9:00 - 10:00am

- DOAC Use in Obese Populations: Is It Supported by the Evidence?
- DOAC Use in Antiphospholipid Syndrome: When Is It Okay?
- Managing PE in the Outpatient Setting: How to Avoid Hospitalization
- Low-Dose DOAC for VTE: Selecting Appropriate Patients
- COVID-Associated VTE: Anticoagulation Selection and Duration
- Antithrombotic Therapy Following Venous Stenting: Is There Consensus?

## The VEINS Award

10:30 - 11:15am

Venous Educator, Innovator, and National Statesman  
Mark H. Meissner, MD



The 2021 VEINS Award ceremony will include a roundtable discussion with Drs. Mark H. Meissner, Maureen P. Kohi, and Raghu Kolluri on venous education and the future of venous care.

*Read about our distinguished award recipients at [vivaphysicians.org/awards](http://vivaphysicians.org/awards).*

## DEEP VEIN DISEASE—PART 1

11:15am - 12:15pm

- Visualization of Deep Veins: Cross-Sectional Imaging vs US and the Use of IVUS
- Treatment Options in Acute Iliofemoral DVT
- Treatment of Acute Iliofemoral DVT in Pregnancy
- Treatment of Iliocaval DVT: Tips and Tricks
- Taped Live Case: Complex Iliocaval DVT
- Open Vein Hypothesis: Is the Debate Settled?

## THE VEINS RECEPTION

Join your colleagues for a welcome reception following the conclusion of the main session on Sunday, October 3. We will enjoy food and drinks on the Cristal Terrace from 5:30-6:30pm.

## PULMONARY EMBOLISM

1:30 - 2:30pm

- PE Risk Stratification in 2021
- Debate: Thrombolysis Is the Best Catheter-Based Therapy for Acute PE
- Debate: Thrombectomy Is the Best Catheter-Based Therapy for Acute PE
- Debate: Anticoagulation Is the Best Therapy for Acute PE
- Residual Pulmonary Obstruction: Does It Explain the Post-PE Syndrome?
- Balloon Angioplasty for CTEPH

## SUPERFICIAL VENOUS DISEASE—PART 1

2:30 - 3:30pm

- Available Sclerosants and What Doses Are Best
- Microphlebectomy vs Sclerotherapy
- The Role of Compression Therapy in Recalcitrant Ulcers and Severe Venous Disease: From Static to Dynamic Compression
- Pathologic Perforators: When and How to Treat Them
- Future Use for Cyanoacrylate
- Taped Live Case: Perforator Treatment

## DEEP VEIN DISEASE—PART 2

4:00 - 5:00pm

- Evaluation of Patients with Post-Thrombotic Syndrome
- Non-Thrombotic vs Post-Thrombotic Venous Occlusive Disease
- Venous Stents: The Good, the Bad, and the Ugly
- Techniques to Cross Difficult Lesions
- What to Do When a Venous Stent Occludes
- Optimizing Outcomes by Managing Poor Inflow

## TAPED CASES: EXTREME VENOUS

5:00 - 5:30pm



## BLUE SKY BREAKFAST: THE VEINS INNOVATION SUMMIT

7:00 - 7:55am

Join us for breakfast and catch a glimpse of the next chapter of technology in venous care.

## DEEP VEIN DISEASE—PART 3

8:00 - 9:00am

- IVC Filters: Removal Techniques
- IVC Filters and Acute PE: Updates From the SIR 2020 Guidelines
- What to Do With an Occluded IVC
- New Venous Valve Technology on the Horizon
- Management of Superior Vena Cava Syndrome
- Venous TOS (Paget-Schroetter Disease)

## SUPERFICIAL VENOUS DISEASE—PART 2

9:00 - 10:00am

- What Constitutes a Well-Rounded Vein Center?
- Is Vein Center Accreditation Important?
- Appropriate Use Criteria in Venous Disease
- Practice Growth: Educating Your Patients and Colleagues
- Should Training Be Standardized Across Specialties?
- Managing Payor Struggles



## KEYNOTE PLENARY SESSION

10:30 - 11:15am

Mary Cushman, MD

This keynote address and discussion will shed new light on the lasting impact of 2020 on medical care.

## LATE-STAGE VENOUS DISEASE

11:15am - 12:15pm

- C-TRACT: An Update
- EVRA: Hot Topic
- VLU: Cost Analysis in a 7-Country Assessment
- VIEW VLU Results
- Meeting Unmet Needs in Chronic Venous Insufficiency
- Spectrum Trial Update

## PELVIC VENOUS DISEASE

1:30 - 2:30pm

- One Size Does Not Fit All: New Classification System
- Clinical Differences in Presentation by Age and Physiopathology
- Coils, Sclerotherapy, or Both? What Is the Evidence?
- State-of-the-Art Management of Nutcracker Syndrome
- What Is the Available Evidence for Stenting in the Setting of Obstruction and Reflux?
- Future Directions in Research: RTC, Registry, or New Technologies

## DIALYSIS AND CENTRAL VEIN

2:30 - 3:30pm

- Non-Invasive Imaging for Dialysis Access
- Overview of Novel Approaches to AV Access
- Challenges in AV Access: Central Venous Obstruction
- Therapies and Devices to Optimize AVF Maturation
- Updates in Drug-Coated Balloons for Dysfunctional AVF
- Effect of Iliocaval Occlusion on Exercise Tolerance

## POTPOURRI

4:00 - 5:00pm

- Not All Swelling Is Venous: Diagnosing Lymphedema and Lipedema
- Managing the Swollen Limb: Compression for Non-Venous Causes
- COVID Toes and Other Common Findings of the Feet
- COVID and Pro-Thrombotic Biomarkers: The State of the Science
- Preventing VTE After Hip and Knee Surgery: Is Aspirin Enough?
- The Role of Endovenous Therapies in Post-Thrombotic Syndrome and Refluxing Saphenous Veins

## M&M

5:00 - 5:30pm

- My "Partner's" Worst Complication
- My Biggest Save

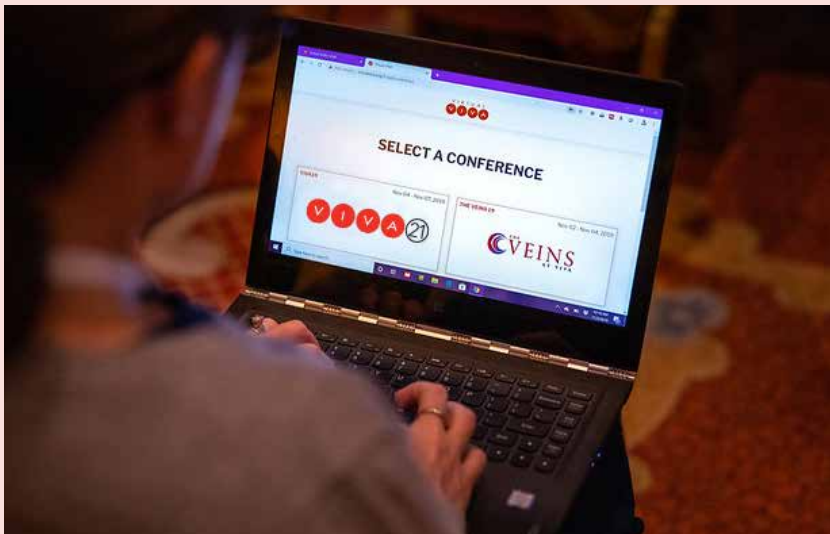




# VIRTUAL VIVA

## 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.



## DISCLAIMERS

### SOCIAL MEDIA DISCLAIMER

VIVA Physicians, Inc. (VPI) accepts comments and discussions via our social media outlets related to vascular education. VPI 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 VPI. VPI 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. VPI assumes no liability for information posted or presented by others, and only endorses comments and postings provided directly by VPI. Any posting or live streaming of entire sessions or live cases and use of any VIVA course content, branding, or logos for commercial use is strictly prohibited. If you wish to report any violation of the above, please contact [marketing@vivaphysicians.org](mailto:marketing@vivaphysicians.org).


### AUDIO, VIDEO RECORDING, AND PHOTOGRAPHY POLICY

VIVA encourages and promotes the exchange and accessibility of educational content from the conference. All videos 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 course content for commercial purposes is strictly prohibited.


# 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.

|  V I V A 21 | <b>EARLY BIRD</b><br>Ends June 14 | <b>PRIME</b><br>June 15 - August 31 | <b>STANDARD</b><br>September 1 - October 7 | <b>REQUIREMENTS</b>                     |
|--|-----------------------------------|-------------------------------------|--|---|
| Physicians<br>(U.S. and International)   | \$1,195                           | \$1,395                             | \$1,545                                    | No requirements                         |
| Active Duty Military   | \$100                             | \$100                               | \$100                                      | Upload military ID / active duty status |
| Nurses / Techs / HCPs  | \$750                             | \$750                               | \$750                                      | License / NPI#                          |

|  VIVA FACE-OFF | <b>SCHOLARSHIP ELIGIBILITY</b><br>Ends July 19 | <b>STANDARD</b><br>July 20 - October 7 | <b>REQUIREMENTS</b>            |
|---|--|--|--------------------------------|
| U.S. Physicians in Training   | Free   | Register as physician                  | Fellowship verification letter |

|  THE VEINS<br>AT VIVA | <b>EARLY BIRD</b><br>Ends June 14 | <b>PRIME</b><br>June 15 - August 31 | <b>STANDARD</b><br>September 1 - October 7 | <b>REQUIREMENTS</b>                     |
|--|-----------------------------------|-------------------------------------|--|---|
| Physicians<br>(U.S. and International)   | \$600                             | \$600                               | \$750                                      | No requirements                         |
| Active Duty Military   | \$50                              | \$50                                | \$50                                       | Upload military ID / active duty status |
| Nurses / Techs / HCPs  | \$500                             | \$500                               | \$500                                      | License / NPI#                          |

| <b>INDUSTRY PROFESSIONALS</b> | <i>Early registration not available</i> | <b>PRIME</b><br>August 2 - August 31 | <b>STANDARD</b><br>September 1 - October 7 | <b>REQUIREMENTS</b> |
|-------------------------------|---|--------------------------------------|--|---------------------|
| VIVA                          | -                                       | \$1,395                              | \$1,545                                    | No requirements     |
| The VEINS                     | -                                       | \$600                                | \$750                                      | No requirements     |

| <b>VIRTUAL-ONLY</b> | <b>STANDARD</b><br>Available until October 7 | <b>REQUIREMENTS</b> |
|---------------------|--|---------------------|
| VIVA                | \$500  | No requirements     |
| The VEINS           | \$100  | No requirements     |

**REGISTER ONLINE TODAY:**  
[vivaphysicians.org/register](http://vivaphysicians.org/register)

## CANCELLATION POLICY

To cancel your registration, please email [registration@vivaphysicians.org](mailto:registration@vivaphysicians.org) by Tuesday, August 31, 2021. Cancellations by this date will incur 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 Tuesday, August 31, 2021. 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 registrants attending the event virtually, tuition is nonrefundable and cancellations will not be accepted.

## COVID-19 POLICY

In the event that VIVA and/or The VEINS are canceled in their entirety due to COVID-19, 100% of registration fees will be refunded.

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.

**Vaccinations MAY be required to attend the meetings in person. Please visit our website for updated safety protocols prior to registering.**

## ON-SITE REGISTRATION AND CHECK-IN HOURS

All times are listed in Pacific Daylight Time.

| DAY                  | TIME            |
|----------------------|-----------------|
| Saturday, October 2  | 3:00 - 5:30pm   |
| Sunday, October 3    | 6:45am - 5:30pm |
| Monday, October 4    | 6:30am - 5:45pm |
| Tuesday, October 5   | 6:45am - 5:00pm |
| Wednesday, October 6 | 7:15am - 5:15pm |
| Thursday, October 7  | 8:00am - 1:30pm |

## EXHIBIT HOURS

### The VEINS

| DAY               | TIME            |
|-------------------|-----------------|
| Sunday, October 3 | 7:00am - 5:30pm |
| Monday, October 4 | 7:00am - 4:00pm |

### VIVA Pre-Courses

| DAY               | TIME          |
|-------------------|---------------|
| Monday, October 4 | 1:00 - 6:00pm |

### VIVA

| DAY                  | TIME            |
|----------------------|-----------------|
| Tuesday, October 5   | 7:00am - 5:00pm |
| Wednesday, October 6 | 7:30am - 5:00pm |
| Thursday, October 7  | 7:30am - 1:15pm |

## ACCOMMODATIONS

### 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 later than usual, beginning on August 2.

VIVA has reserved a block of rooms at the discounted rate of \$274 per night plus tax (currently 13.38%). This rate includes the resort fee, which provides access to the fitness center, internet access for up to 4 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 September 2 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.



**VIVA Physicians**

5671 Santa Teresa Blvd, Suite 104  
San Jose, CA 95123



NONPROFIT ORG  
US POSTAGE  
**PAID**  
SAN JOSE, CA  
PERMIT NO. 828

V I V A 21

THE  
**CV** VEINS  
AT VIVA

Official publication: **Endovascular**  
TODAY

Endorsements:     

THE GLOBAL EDUCATION  
COURSES FOR VASCULAR  
MEDICINE AND INTERVENTION

REGISTER ONLINE TODAY: [vivaphysicians.org/register](http://vivaphysicians.org/register)