



ADVANCES IN CARDIOVASCULAR MEDICINE

December 1 – 2, 2018

WVU Heart and Vascular Institute
Morgantown, West Virginia

CME Credits
13 CME, 15.5 Nursing Credit

Course Director

Partho Sengupta, MD, MBBS, FACC, FASE

Chief, Division of Cardiology,
WVU Heart and Vascular Institute

Director, Cardiovascular Imaging,
WVU Heart and Vascular Institute

Professor of Medicine,
WVU School of Medicine

Course Co-Director

Vinay Badhwar, MD, FACS, FACC

Executive Chair, WVU Heart and Vascular
Institute

Gordon F. Murray Professor and Chair,
Department of Cardiovascular and
Thoracic Surgery, WVU School of
Medicine

For more information visit: www.wvumedicine.org/info/advances

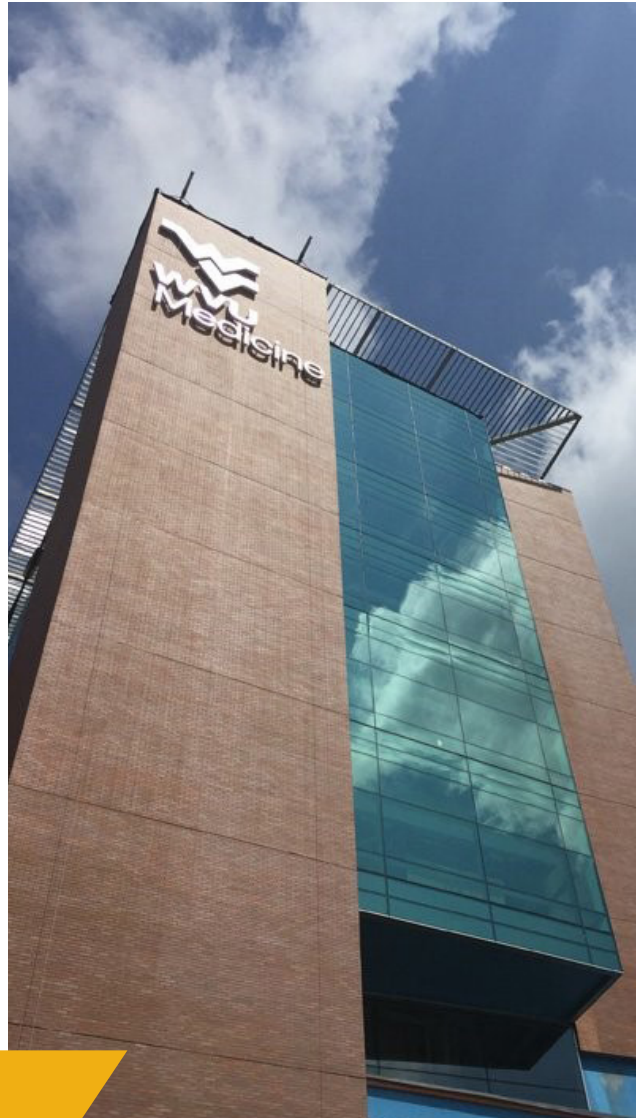
OVERVIEW

The WVU Heart and Vascular Institute is proud to host the inaugural Advances in Cardiovascular Medicine conference presented by national leaders in contemporary cardiology.

This conference has been designed for physicians who have interest in cardiovascular medicine, including specialists in interventional cardiology, advanced heart failure, electrophysiology and imaging diagnostics, as well as fellows, residents, nurses and other healthcare professionals interested in cardiology related diseases and treatments.

During the two-day event there will be keynote presentations followed by case presentations and panel discussions. The focus will be on integrating multidisciplinary teams for optimizing patient-centered therapies. The schedule provides opportunities to meet with exhibiting vendors and research groups who are helping provide improved treatment options.

The course also features networking opportunities including a technology exhibit where the latest diagnostic algorithms and therapies will be displayed.



Topics in contemporary cardiology with case based panel discussions include:

- / Personalized vs. Guideline Based Medicine
- / mHealth and AI
- / Screening for Coronary Atherosclerosis
- / CMR Stress Perfusion and Viability assessments
- / Coronary Computed Tomography – Fractional Flow Reserve
- / Complex High Risk PCI
- / Asymptomatic Valvular Heart Disease
- / TAVR and mitral valve interventions
- / Coils, Plugs, and Devices
- / Advanced Heart Failure
- / Cardiogenic Shock
- / Pulmonary Hypertension
- / Endocarditis
- / Atrial Fibrillation
- / VT Ablation
- / HIS Bundle Pacing

COURSE DIRECTOR



Partho Sengupta, MD, MBBS, FACC, FASE

Chief of the Division of Cardiology, Director of Cardiovascular Imaging, and Chair of Cardiovascular Innovation at WVU Heart and Vascular Institute; Professor of Medicine in the WVU School of Medicine

COURSE CO-DIRECTOR

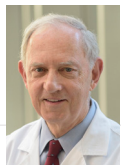


Vinay Badhwar, MD, FACS, FACC

Executive Chair of the WVU Heart and Vascular Institute, Gordon F. Murray Professor and Chief of the Division of Cardiothoracic Surgery in the WVU School of Medicine's Department of Surgery; Co-Director of the WVU Heart and Vascular Institute's Center for Mitral Valve Disease and Director of the Center for Atrial Fibrillation



INVITED FACULTY



Robert O. Bonow, MD

Vice Chair for Development and Innovation, Department of Medicine, Max and Lilly Goldberg Distinguished Professor of Cardiology, Northwestern Medicine, Feinberch School of Medicine; Chicago, IL



Barry A. Borlaug, MD

Professor of Medicine, Chair for Research, Division of Circulatory Failure, Department of Cardiovascular Medicine Mayo Clinic; Rochester, MN



Anthony DeMaria, MD

Professor of Medicine, UC San Diego, Judith and Jack White Chair in Cardiology, Founding Director, Sulpizio Cardiovascular Center at UCSD; San Diego, CA.



Spencer B. King III, MD, MACC, FSCAI, FESC

Professor of Medicine Emeritus, Emory University School of Medicine, Editor-in-Chief, JACC: Cardiovascular Interventions; Atlanta, GA



Jayanthi Koneru, MD

Assistant Professor of Medicine, Cardiac Electrophysiology, Division of Cardiology, Virginia Commonwealth University; Richmond, Virginia



Paul J. Mather, MD, FACC, FAHA, FHFSA, FESC, FACP

Professor of Clinical Medicine Heart Failure - Transplant Program, Perelman School of Medicine University of Pennsylvania; Philadelphia, PA



Leslee Shaw, PhD, FACC, FASNC, FAHA

Professor of Health Services Research in Radiology, Weill Cornell Medical College; New York, NY



Elie G. Gharib, MD

Governor, American College of Cardiology, West Virginia Chapter; Charleston, WV

CONTINUING EDUCATION INFORMATION

Target Audience

Cardiovascular professionals, faculty, residents, medical students, nurses, and community providers.

Learning Objectives

By attending the conference, participants should be able to:

- ✓ Compare contemporary diagnostic methods in cardiology including mobile health solutions
- ✓ Compare and contrast the benefits of non-surgical management with surgical management of complex coronary artery disease
- ✓ Discuss the medical management of heart failure and identify advanced treatments
- ✓ Recognize expanding indications for structural heart interventions with real world case illustrations
- ✓ Discuss guidelines and advances in cardiac ablation and HIS bundle pacing

Accreditation and Designation

The West Virginia University School of Medicine is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

The WVU Office of CME designates this live activity for a maximum of 13 *AMA PRA Category 1 Credits*[™]. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

This continuing education activity has been provided by the West Virginia University School of Nursing for 15.5 contact hours. The West Virginia University School of Nursing is an approved provider of continuing education by the State of West Virginia Board of Examiners for Registered Professional Nurses, Legislature Rule §19CSR11-4 under provider number WV1996-0120RN.

Disclosure

It is the policy of the WVU School of Medicine Office of CME to ensure balance, independence, objectivity, and scientific rigor in all its educational activities. All faculty/authors/planners participating in our programs are expected to disclose any relevant relationships they may have with commercial companies. For this conference, Dr. Borlaug has disclosed he has received honoraria as a speaker or consultant for AstraZeneca, Actelion, Amgen, Arteriomedix, Corvia, Merck and Myokardia. Dr. DeMaria has received honoraria from ResMed Foundation as a member of the Scientific Advisory Board and from Zoll as a speaker; and research grant funding from Bracu and Trust as a Principal Investigator. Dr. Koneru has received honoraria from Medtronic as a consultant. All others have indicated that they have no relevant interests to disclose.

These relationships, along with the educational content of this program, will be reviewed and any potential conflicts of interest will be resolved to the satisfaction of the WVU School of Medicine Office of CME prior to the activity. If a conflict cannot be resolved, the person involved will be removed from control of content or the content will not be presented as part of the educational program.

Special Thanks

Special thanks to our exhibitors for their support of this conference.

REGISTRATION AND LOCATION INFORMATION

Registration

Attendees and vendors can visit the event website at: www.wvumedicine.org/info/advances and complete the online registration form.

Location

The Bruce B. McClymonds Conference Room is located at the WVU Heart and Vascular Institute main campus location in Morgantown, WV..

1 Medical Center Drive,
Morgantown, WV 26506.

For directions please visit:

www.wvumedicine.org/locations

Additional Information

For more information on this and other upcoming CE conferences, visit our web site at www.ce.wvu.edu or e-mail us at ce@wvu.edu. In case of emergency during the conference, please call Angelyn McGrew (304) 598-4687.

Cancellations

Important: If you are unable to attend the conference after you have registered, you must notify us in writing by November 23, 2018, to receive a refund. No refunds for conference fees will be made after November 23, 2018. A \$25 fee will be charged for all cancelled registrations.

We reserve the right to cancel individual sessions or the entire conference. In the event of a conference cancellation, a full tuition refund will be made.

ACCOMODATIONS

Hampton Inn Morgantown

1053 Van Voorhis Road
Morgantown, West Virginia 26505
Phone: 304.599.1200

Group Name: WVU Cardiology

Group Code: WVC

Online Room Reservations Available. Please visit the event website for special group rate hotel link: www.wvumedicine.org/info/advances

Reservation by phone: Call 304.599.1200 and be sure to mention that you are with the WVU Cardiology.

Hilton Garden Inn Morgantown

150 Suncrest Towne Centre Dr
Morgantown, West Virginia 26505

Phone: 304-225-9500

Online Room Reservations Available. Please visit: www.wvumedicine.org/info/advances for special group rate hotel link.

Holiday Inn

1188 Pineview Drive
Morgantown, West Virginia 26505
Phone: 304.241.6649

Group Name: WVU Cardiology

Group Code: CAD

Reservation by phone: Call 304.241.6649 and be sure to mention that you are with WVU Cardiology. Online room reservations available. Please visit: www.wvumedicine.org/info/advances for special group rate hotel link.

Cut-off Date: November 14, is the last day to book under the group block and receive the discounted group rate. Any rooms reserved after November 14 will be subjected to hotel's best available rate.

SCHEDULE OF EVENTS

SATURDAY, DECEMBER 1, 2018

7:00 a.m. Registration & Breakfast

8:00 a.m. Opening Remarks, Acknowledgements, Announcements

Speakers: Partho Sengupta, Vinay Badhwar

8:10 a.m. Opening Keynote: Cardiology at a Pivot Point

Speaker: Anthony DeMaria

8:35 a.m. Open discussions / Q&A

8:45 a.m. - 10:00 a.m.

Cardiac Risk Assessment

Moderators: Elie Gharib, Vinay Badhwar

8:45 a.m. Will Artificial Intelligence replace the diagnosing physician?

Speaker: Partho Sengupta

9:05 a.m. - 10:00 a.m. Case Based Reviews

Panelists: Jim Mills, Sudarshan Balla, Irfan Zeb, Matt Frick, Anthony DeMaria

9:05 a.m. Thinking outside the lumen: is the stress test really false positive?

Speaker: Jim Mills

9:15 a.m. Overcoming fixation: When to use CMR stress perfusion?

Speaker: Sudarshan Balla

9:25 a.m. Make it simple: Should CT angiogram be the front line strategy?

Speaker: Irfan Zeb

9:35 a.m. Optimal stress testing strategy for coronary artery disease evaluation

Moderated Discussion

10:00 a.m. Break

10:20 a.m. - 12:00 p.m.

Coronary Artery Interventions: The Known and Unknown

Moderators: Bryan Raybuck, Lawrence Wei

10:20 a.m. Coronary Interventions: The remaining unanswered questions

Speaker: Spencer King

10:40 a.m. Open discussions / Q&A

10:50 a.m. - 11:20 a.m. Case Based Reviews

Panelists: Jason Moreland, Anthony Roda-Renzelli, Spencer King, Partho Sengupta, Mohamad Alkhoul, Chris Cook

10:50 a.m. Lesion Quantification: FFR vs I-FFR vs I-VUS vs. just "I-ball"?

Speaker: Anthony Roda-Renzelli

11:00 a.m. Complex high risk PCI: to support or bypass?

Speaker: Jason Moreland

11:10 a.m. Robotic Revascularization: Indications and Outcomes

Speaker: Lawrence Wei

11:20 a.m. - 11:50 a.m.

Debate: Based upon EXCEL & NOBEL, should PCI be indicated for unprotected LM disease when technically feasible?

11:20 a.m. Pro

Speaker: Mohamad Alkhoul

11:35 a.m. Con

Speaker: Chris Cook

11:50 a.m. Hybrid Revascularization Trial

Moderated Discussion

12:00 p.m. Lunch

Lunchtime Talk: Recent Advances in noninvasive assessment of cardiac function

Speaker: Partho Sengupta

1:00 p.m. - 3:00 p.m.

Structural Interventions: Today and Tomorrow

Moderators: Partho Sengupta, Vinay Badhwar

1:00 p.m. Asymptomatic Valvular Heart disease: when to intervene?

Speaker: Robert Bonow

1:20 p.m. Open discussions / Q&A

1:30 p.m. - 3:00 p.m. Structural Heart Team Presentations

Panelists: Spencer King, Anthony DeMaria, Mohamad Alkhoul, Robert Bonow, Bryan Raybuck, Lawrence Wei

1:30 p.m. Novel techniques for Mitral valve disease

Speaker: Vinay Badhwar

1:45 p.m. Creativity Meets Necessity: Coil, Plugs, Device Innovation

Speaker: Mohamad Alkhoul

2:00 p.m. Debate: TAVR will replace low risk SVR – PRO

Speaker: Bryan Raybuck

2:15 p.m. Debate: TAVR will not replace low risk SVR – CON

Speaker: Lawrence Wei

2:30 p.m. Moderated Discussion

3:00 p.m. Break

3:20 p.m. - 5:30 p.m.

Success with Failure

Moderators: George Sokos, Muhammad Salman

3:20 p.m. Can viability assessments help revascularization decisions in Heart Failure patients?

Speaker: Robert Bonow

SCHEDULE OF EVENTS (continued)

SATURDAY, DECEMBER 1, 2018 (continued)

- 3:40 p.m. Open discussions / Q&A
- 3:50 p.m. HFpEF: Challenges and Opportunities
Speaker: Barry Borlaug
- 4:10 p.m. Open discussion / Q&A
- 4:20 p.m. Caring for the advanced heart failure patient in Rural Appalachia: Role of technology and the non-medical provider
Speaker: George Sokos
- 4:35 p.m. Role of durable and temporary devices in cardiogenic shock
Speaker: Paul Mather
- 4:55 p.m. Open discussion / Q&A
- 5:05 p.m. Pulmonary hypertension: cases and approaches for best outcomes
Speaker: Marco Caccamo
- 5:20 p.m. Discussion
- 5:30 p.m. Saturday Adjournment

6:00 p.m. - 8:30 p.m.

Reception

Touch Down Terrace – WVU Football Stadium

SUNDAY, DECEMBER 2, 2018

7:00 a.m. Breakfast

8:00 a.m. - 9:30 a.m.

Stump the Experts: Rapid Fire Cases

Moderators: David Tingler, Luke Marone

Speakers: Ajay Virmani, Mike Campsey, Anthony Morise, Christopher Bianco, C. Michael Brown, Chalak Berzingi, Stephen Gnegy

Panelists: Anthony DeMaria, Leslie Shaw, Barry Borlaug, Paul Mather

9:30 a.m. - 11:00 a.m.

Controversies in Cardiology

Moderators: Dean Wolz, Jim Mills

- 9:30 a.m. Noninvasive screening for coronary atherosclerosis: Appropriate and cost-effective?
Speaker: Leslee Shaw
- 9:50 a.m. Open discussion / Q&A
- 10:00 a.m. Foundations of hemodynamics assessment and interpretations: Echo vs. Cath Lab?
Speaker: Barry Borlaug
- 10:20 a.m. Open discussion / Q&A

10:30 a.m. Gender Related Bias in Assessments and Cardiovascular Outcomes

Speaker: Leslee Shaw

10:50 a.m. Open discussion / Q&A

11:00 a.m. Break

11:15 a.m. - 12:45 p.m.

Rhythm Ride

Moderators: John Lobban, Stanley Schmidt

11:15 a.m. HIS bundle pacing

Speaker: Jayanthi Koneru

11:35 a.m. Open discussion / Q&A

11:45 a.m. Clinical prediction and approach for ensuring a successful Atrial Fibrillation Ablation

Speaker: Ted Friebling

12:00 p.m. Refractory Atrial fibrillation: Robotic Cox Maze Procedure

Speaker: Vinay Badhwar

12:15 p.m. The success of VT ablation

Speaker: Donald Siddoway

12:30 p.m. Open discussions

12:45 p.m. **Closing Remarks**

1:00 p.m. Adjournment

LOCAL FACULTY



Mohammad Alkhouli, MD
INTERVENTIONAL,
STRUCTURAL HEART



Sudarshan Balla, MD
CARDIOLOGY



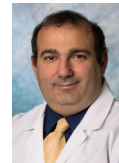
Chalak Berzingi, MD
INTERVENTIONAL
CARDIOLOGY



Christopher Bianco, DO
HEART FAILURE



C. Michael Brown, MD
INTERVENTIONAL
CARDIOLOGY



Marco Caccamo, DO
HEART FAILURE



Mike Campsey, MD
INTERVENTIONAL
CARDIOLOGY



Chris Cook, MD
CARDIAC SURGERY



Ted Friebling, MD
ELECTROPHYSIOLOGY



Matt Frick, MD
RADIOLOGY
ONCOLOGY



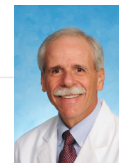
John Lobban, MD
ELECTROPHYSIOLOGY



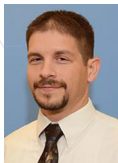
Luke Marone, MD
VASCULAR SURGERY



James Mills, MD
CARDIOLOGY



Anthony Morise, MD
LIPIDOLOGY



Jason Moreland, MD
INTERVENTIONAL
CARDIOLOGY



Brian Raybuck, MD
INTERVENTIONAL,
STRUCTURAL HEART



Anthony Roda-Renzelli, MD
INTERVENTIONAL
CARDIOLOGY



Muhammed Salman, MD
CARDIAC SURGERY



Stanley Schmidt, MD
ELECTROPHYSIOLOGY



Donald Siddoway, MD
ELECTROPHYSIOLOGY



George Sokos, DO
HEART FAILURE



David Tingler, MD
CARDIOLOGY



Ajay Virmani, MD
INTERVENTIONAL
CARDIOLOGY



Lawrence Wei, MD
CARDIAC SURGERY



Dean Wolz, MD
CARDIOLOGY



Irfan Zeb, MD
CARDIOLOGY



WVU Medicine unites the clinical and research faculty of the West Virginia University Health Sciences Center with the hospitals, clinics, and health professionals of the West Virginia University Health System. Together, they are a national leader in patient safety and quality, and are unified and driven by a passion to provide the most advanced healthcare possible to the people of West Virginia and beyond. WVU Medicine includes the physicians, specialists, and sub-specialists of the West Virginia University School of Medicine; the affiliated schools of the WVU Health Sciences Center; four community hospitals; three critical access hospitals; and a children's hospital, all anchored by a 690-bed academic medical center that offers tertiary and quaternary care.

WVU Heart and Vascular Institute

Led by Vinay Badhwar, MD, FACS, FACC, and some of the most respected cardiac surgeons, cardiologists, interventional radiologists, cardiac electrophysiologists, thoracic surgeons, and vascular surgeons, the heart and vascular programs of West Virginia University and WVU Medicine are among the best in the United States. Considered national experts in their field, our physicians are an integrated team that works closely together to bring state-of-the-art therapies to patients from West Virginia and the surrounding region.



The Division of Cardiology

The WVU Heart and Vascular Institute's Cardiology Division is led by Partho Sengupta, M.D., Chief of the Division of Cardiology in the Heart and Vascular Institute and in the WVU School of Medicine Department of Medicine, and Director of Cardiovascular Imaging and Chair of the Center for Innovation at the WVU Heart and Vascular Institute.

The Cardiology faculty and fellows represent a very accessible resource in clinical medicine, teaching, scientific knowledge and basic and applied research. Currently, there are 35 full time faculty within the Division of Cardiology. Our highly-skilled and dedicated faculty provide expertise in every aspect of cardiac care, ranging from standard procedures such as outpatient consultation, echocardiography, and angiography to advanced clinical research into heart failure, preventive cardiology, and radio-frequency ablation.



ABOUT MORGANTOWN, WEST VIRGINIA

Quick Facts

- / 30,666 permanent residents
- / Additional 28,766 full-time West Virginia University students
- / Vibrant, diverse college town atmosphere
- / Ranked 18th best college town by Business Insider
- / Named best small city in the East by Rating Guide to Life in America's Small cities
- / Ranked number 1 dream town in the country by bizjournals.com

WVU Medicine is headquartered in Morgantown, West Virginia, a vibrant city located along the Monongahela River and close to the Pennsylvania border in the north central part of the state. The seat of Monongalia County and the home of West Virginia University, Morgantown has been voted Best Small City by numerous national organizations. With excellent schools, diverse restaurants, and outdoor activities, Morgantown is one of the major growth areas in West Virginia.

Points of Interest

- / West Virginia University
- / WVU Core Arboretum
- / West Virginia Botanical Gardens
- / Coopers Rock State Forest
- / Dorsey's Knob Park
- / Don Knotts Statue

For more information visit the Greater Morgantown Convention and Visitors Bureau at:
www.tourmorgantown.com

