



RWJBARNABAS HEALTH HEART & VASCULAR PRESENTS

2nd ANNUAL

Heart of the Matter: Case-Based and Hands-On Experience for the Echo Lab Team

Saturday, September 13, 2025 | 7:45 a.m. to 5:30 p.m.

Jane Voorhees Zimmerli Art Museum

Rutgers University

71 Hamilton Street, New Brunswick, NJ 08901

Jointly Provided by

Robert Wood Johnson University Hospital, Heart & Vascular Services
and

Rutgers Health, Rutgers Robert Wood Johnson Medical School,
Department of Medicine, Division of Cardiovascular Diseases and Hypertension

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Overview

Cardiovascular diseases remain the leading cause of morbidity and mortality worldwide. While significant advancements have been made in cardiology, early recognition and accurate assessment of cardiovascular conditions continue to present challenges. Echocardiography plays a critical role in diagnosing and managing a wide spectrum of cardiac disorders, including heart failure, valvular disease, pericardial conditions, and emerging applications in cardio-oncology and artificial intelligence (AI)-assisted imaging.

This symposium is designed to address professional practice gaps by providing a comprehensive, case-based, and hands-on approach to echocardiographic assessment. Through expert-led discussions and interactive workshops, participants will enhance their proficiency in two-dimensional, Doppler, and three-dimensional echocardiography; explore emerging imaging modalities such as left atrial strain and AI-assisted interpretation; and refine their skills in standardized imaging protocols. Special focus areas include the recognition and quantification of heart failure, valvular disease assessment, pericardial pathology, and the role of point-of-care ultrasound (POCUS) in clinical decision-making.

By the end of this symposium, attendees will be better equipped to integrate echocardiographic findings into patient care, improve diagnostic accuracy, and contribute to advancing cardiovascular imaging practices.

Target Audience

This activity is intended for physicians, sonographers, advanced practice providers, nurses, pharmacists, residents, fellows, paramedics, emergency medical technicians, and other allied healthcare professionals involved in the echocardiographic assessment and management of cardiovascular disease. Specialties that may benefit from this program include cardiology, internal medicine, anesthesiology, critical care, emergency medicine, neurology, and hospital medicine.

Learning Objectives

Upon completion of this activity, participants should be better able to:

- Apply the latest evidence-based approaches to diagnose and manage heart failure using echocardiography.
- Accurately quantify valvular heart disease severity and integrate findings into treatment decisions.
- Identify and evaluate pericardial diseases using echocardiographic techniques.
- Utilize emerging imaging modalities, including strain imaging, 3D echocardiography, and AI-driven applications.
- Implement guideline-based algorithms for cardiovascular disease assessment and management.
- Recognize the role of point-of-care ultrasound (POCUS) in acute and critical care settings.
- Develop proficiency in 3D echocardiography, strain imaging and analysis techniques.
- Review quality assurance principles in echocardiographic imaging, including safety, reproducibility, and equipment maintenance.
- Describe the integral role of nursing professionals in the transesophageal echocardiography (TEE) lab to enhance procedural efficiency and safety.
- Explain the hemodynamic principles of shock and demonstrate echocardiographic strategies for assessing patients supported with mechanical circulatory devices.

Activity Director

Kameswari Maganti, MD, FASE

Professor of Medicine, Section Chief, Non-Invasive Cardiology, Rutgers Robert Wood Johnson Medical School; Director of Echocardiography Lab, Cardiodynamics and Vascular Laboratory, Robert Wood Johnson University Hospital

Activity Co-Directors

Alicia Wright, RCS, FASE

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Choula Panchal

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Faculty

Justin W. Ady, MD, RPVI

Assistant Professor of Surgery, Medical Director, Non-Invasive Vascular Laboratory, Rutgers Robert Wood Johnson Medical School

Chonyang L. Albert, MD

Assistant Professor of Medicine, Rutgers Robert Wood Johnson Medical School; Medical Director, Left Ventricular Assist Devices and Mechanical Circulatory Support, Robert Wood Johnson University Hospital

Ashok Chaudhary, MD

Associate Professor of Medicine, Program Director, Interventional Cardiology Fellowship, Robert Wood Johnson Medical School

Sasha-Ann East, MD

Assistant Professor of Medicine, Rutgers Robert Wood Johnson Medical School

Yasmin Hamirani, MD

Associate Professor of Medicine, Rutgers Robert Wood Johnson Medical School; Director of Structural Heart Imaging and Innovations, Robert Wood Johnson University Hospital

Sheila Hernandez, RN, BSN, PCCN

Cardiac Nurse, Robert Wood Johnson University Hospital

Andreana Jones, RCS

Cardiac Sonographer, Robert Wood Johnson University Hospital

Audrey McIntyre, RN, BSN

Clinical Coordinator, Robert Wood Johnson University Hospital

Lydia McMurray, RDCS

Cardiac Sonographer, Robert Wood Johnson University Hospital

Sharada Muralidhar, RVT

Vascular Lab Supervisor, Robert Wood Johnson University Hospital

Ekta Patel, MS, RDCS, RVT

Cardiac Sonographer, Monmouth Medical Center

Julio C. Perez-Mego, BS, RCS, RCCS, RVS, FASE

Cardiac Sonographer, Rutgers Robert Wood Johnson Medical School

Kayla Senape, RCS

Cardiac Sonographer, Robert Wood Johnson University Hospital

Partho Sengupta, MD, FASE

Henry Rutgers Professor of Cardiology, Chief, Division of Cardiovascular Diseases and Hypertension, Rutgers Robert Wood Johnson Medical School; Chief of Cardiac Services, Robert Wood Johnson University Hospital

Daniel Shindler, MD

Professor of Medicine, Rutgers Robert Wood Johnson Medical School

Nidhi Tripathi, MD

Assistant Professor of Medicine, Director, Cardio-Oncology, Rutgers Robert Wood Johnson Medical School

Esad Vucic, MD, PhD

Director, Cardiac Imaging, Newark Beth Israel Medical Center; Clinical Assistant Professor of Medicine, Rutgers New Jersey Medical School

Yanting Wang, MD

Assistant Professor of Medicine, Director, Cardio-Obstetrics, Rutgers Robert Wood Johnson Medical School

Agenda

7:45 am	Registration/Continental Breakfast/Exhibits	
8:15 am	Welcome Address	Partho Sengupta, MD
Session 1: Systolic Function Assessment: Focus on 3D and Strain Moderators: Kameswari Maganti, MD		
8:30 am	Systolic Function Assessment	Kameswari Maganti, MD
8:45 am	Case 1 - Heart Failure with Preserved Ejection Fraction (HFpEF)	Ekta Patel, MS, RDCS, RVT
9:00 am	Case 2 - Imaging in Cardio-Oncology: Heart Failure with Reduced Ejection Fraction (HFrEF)	Nidhi Tripathi, MD
9:15 am	Case 3 - Don't Forget the RV/RV Dysfunction	Kayla Senape, RCS
9:30 am	Case 4 - Assessment of Wall Motion	Andreana Jones, RCS
9:45 am	Panel Discussion; Audience Q&A	
10:00 am	Refreshment Break/Exhibits	
Session 2: Diastolic Function: Focus on LA Strain Moderators: Partho Sengupta, MD and Sasha-Ann East, MD		
10:15 am	Diastolic Function Assessment	Partho Sengupta, MD
10:30 am	Case 1 - Cardiac Amyloidosis	Esad Vucic, MD, PhD
10:42 am	Case 2 - HCM	Julio Perez-Mego, RCS, RCCS, RVT
10:54 am	Panel Discussion; Audience Q&A	
Session 3: Pericardial Diseases Moderators: Daniel Shindler, MD and Yanting Wang, MD		
11:15 am	Assessment of Pericardial Diseases	Daniel Shindler, MD
11:30 am	Case 1 - Cardiac Tamponade	Lydia McMurray, RDCS
11:40 am	Case 2 - Constrictive Pericarditis	Yanting Wang, MD
11:50 am	Case 3 - Restrictive Cardiomyopathy	Nidhi Tripathi, MD
12:00 pm	Panel Discussion; Audience Q&A	
Session 4: Carotid Artery Disease and Nursing/TEE Lab Moderators: Yasmin Hamirani, MD and Kameswari Maganti, MD		
12:15 pm	What is Carotid Ultrasound? What Are the Indications?	Justin W. Ady, MD
12:30 pm	How Do You Perform a Carotid Duplex Study?	Sharada Muralidhar, RVT
12:45 pm	Lunch/Exhibits	
1:30 pm	What is the Role of Nursing Staff in the TEE Lab?	Audrey McIntyre, RN, BSN Sheila Hernandez, RN, BSN, PCCN
Session 5: Mitral Valve Disease Moderators: Ashok Chaudhary, MD, Yasmin Hamirani, MD and Kameswari Maganti, MD		
2:00 pm	Overview of Mitral Valve Disease	Yasmin Hamirani, MD
2:15 pm	Case 1 - Mitral Stenosis	Kameswari Maganti, MD
2:25 pm	Case 2 - Mitral Regurgitation	Kameswari Maganti, MD
2:35 pm	Case 3 - Ice Imaging for LAA Occlusion	Ashok Chaudhary, MD
2:50 pm	Primary versus Secondary MR: How Do We Assess and Manage?	Sasha-Ann East, MD
3:05 pm	Panel Discussion; Audience Q&A	
3:15 pm	Refreshment Break/Exhibits	
Session 6: "How-To" Moderators: Chonyang L. Albert, MD, Sasha-Ann East, MD and Yasmin Hamirani, MD		
3:30 pm	Introduction to Mechanical Circulatory Support	Chonyang L. Albert, MD
3:45 pm	How Do You Interrogate the Following Devices: Impella, LVAD and ECMO	Alicia Wright, RCS
4:15 pm	Break	
Session 7: Hands-On Moderators: Chonyang L. Albert, MD and Yasmin Hamirani, MD		
4:30 pm	Room A: Introduction to Strain Lydia McMurray, RDCS Nidhi Tripathi, MD	Room B: Introduction to 3D Sasha-Ann East, MD Andreana Jones, RCS Alicia Wright, RCS
5:30 pm	Adjourn	

General Information

Registration Fees	
Physician	\$75
Other Healthcare Professional	\$60
Rutgers Health/RWJBarnabas Health Faculty/Staff	\$40
Resident/Fellow/Healthcare Student (with letter)*	Complimentary

**Registration must be accompanied by program director’s letter confirming resident/fellow/student status. Please upload your letter when registering or email to ccoe@rbhs.rutgers.edu.*

Registration fee includes continental breakfast, refreshment breaks, lunch, continuing education credits and course material. **Registration can only be accepted through our secure online website through September 10, 2025.** Registration will not be confirmed until payment is received. If payment is not received in time for the activity, Rutgers reserves the right to cancel the registration.



Pre-registration is recommended. On-site registration will be accommodated on a space available basis.

To Register: rutgers.cloud-cme.com/NJEcho2025

Course Material

In an effort to provide the most complete materials to attendees and conserve resources, PDF versions of the lecture slides will be made available online to registered attendees. Additional information will be provided in future confirmation communications.

Confirmation

Once registered, you will receive an email confirmation. As the activity date approaches, you will receive additional information to assist you with your plans to participate in this activity.

Location

Jane Voorhees Zimmerli Art Museum | Rutgers
71 Hamilton Street
New Brunswick, NJ 08901

Cancellation Fee/Refund

A full refund, less a \$25 cancellation fee, will be granted if notice is received no later than September 12, 2025. Refunds will not be issued for any cancellations received after September 12, 2025 and cannot be given for no shows. To cancel, please contact Rutgers Center for Continuing and Outreach Education by email at ccoe@rbhs.rutgers.edu.

For Additional Information

For additional information, questions, concerns, or if you require special arrangements to attend this activity, please contact Rutgers Center for Continuing and Outreach Education by email at ccoe@rbhs.rutgers.edu.

Rutgers Health and Robert Wood Johnson University Hospital reserve the right to modify program content, faculty and program activities and reserve the right to cancel the activity, if necessary. If the activity is cancelled, liability is limited to the registration fee.

Accreditation



In support of improving patient care, this activity has been planned and implemented by Rutgers Biomedical and Health Sciences and Robert Wood Johnson University Hospital. Rutgers Biomedical and Health Sciences is jointly accredited by the Accreditation Council for Continuing Medical Education (ACCME), the Accreditation Council for Pharmacy Education (ACPE), and the American Nurses Credentialing Center (ANCC), to provide continuing education for the healthcare team.

Physicians: Rutgers Biomedical and Health Sciences designates this live activity for a maximum of *7.5 AMA PRA Category 1 Credits™*. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Nurses: This activity is awarded 7.5 ANCC contact hours. Nurses should only claim those contact hours actually spent participating in the activity.

Physician Associates: NCCPA accepts certificates of participation for educational activities approved for *AMA PRA Category 1 Credit™* from organizations accredited by ACCME.

Sonographers: An application has been submitted to Society of Diagnostic Medical Sonography (SDMS) for approval.

Method of Participation

In order to meet the learning objectives and receive continuing education credits, participants are expected to register for the activity, check in at the registration desk, attend the program and complete an online evaluation at the conclusion of the activity. A CE certificate will be emailed to participants upon completion of the online evaluation.