CE Accredited Live Activity

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

Saturday, October 19, 2024 7:45 a.m. to 5:15 p.m.

Rutgers Robert Wood Johnson Medical School
Clinical Academic Building
125 Paterson Street
New Brunswick, NJ 08901

Jointly Provided by

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

and

RWJBarnabas Health
Robert Wood Johnson University Hospital
Division of Cardiology

RWJBarnabas HEALTH
Robert Wood Johnson University Hospital

RUTGERS HEALTH
Robert Wood Johnson Medical School

Overview

Cardiovascular diseases are the leading cause of death globally. Despite the multitude of strides that have been made in the field of cardiology, early recognition of some of these disease states remains a challenge. Understanding the underlying causes of death is important, nevertheless, rigorously diagnosing and evaluating cardiovascular disease through echocardiography provides additional tactics to tackle the epidemic of heart disease.

Professional practice gaps persist among healthcare providers regarding echocardiographic assessment, including image acquisition, interpretation, and integration into patient care plans. This program aims to address these gaps by providing a comprehensive overview of two-dimensional and Doppler echocardiography, standardized imaging protocols, understanding advanced imaging modalities, and effectively integrating echocardiographic findings into clinical practice.

The activity will highlight the recognition of systolic and diastolic heart failure, accurate assessment of valvular heart disease, and cardiac masses. In addition, small group, hands-on workshops will be offered to instruct providers in becoming proficient in 3D and strain imaging.

Armed with the information and techniques from this activity, learners will be able to enhance their proficiency in echocardiography, improve their understanding of advanced imaging techniques, and develop skills to integrate echocardiographic findings into patient care plans effectively. As a result, learners will contribute to improved patient outcomes and the advancement of cardiovascular imaging practices.

Target Audience

This activity is intended for sonographers, nurses, residents, fellows, students and other allied healthcare professionals involved in the echocardiographic assessment of patients with cardiovascular disease. Physicians and advanced practice providers may find this activity useful.

Learning Objectives

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

- Develop proficiency in standardized image acquisition techniques for echocardiography, ensuring consistency and reproducibility across examinations.
- Determine the proper patient positioning, transducer placement, and imaging planes to optimize image quality.
- Interpret echocardiographic findings related to cardiac structure, function, and hemodynamics.
- Recognize common abnormalities, such as valvular disorders, chamber size, wall motion abnormalities, and assess their clinical significance.
- Review advanced imaging modalities in echocardiography, such as strain imaging, three-dimensional echocardiography, and contrast-enhanced echocardiography.
- Summarize principles of quality assurance and safety in echocardiography, including equipment maintenance, infection control, and patient safety measures.
- Implement protocols to ensure accurate and safe echocardiographic examinations for optimal patient care.

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.

Nurses: This activity is awarded 7 ANCC contact hours. Nurses should only claim those contact hours actually spent participating in the activity.

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

Activity Director

Kameswari Maganti, MD, FASE, Professor of Medicine, Section Chief, Non-Invasive Cardiology, Rutgers Robert Wood Johnson Medical School; Director of Echocardiography Lab, Robert Wood Johnson University Hospital

Activity Co-Directors

Alicia Wright, RCS, FASE, Supervisor of Echocardiography, Cardiodynamics Laboratory, Robert Wood Johnson University Hospital

Grace Casaclang-Verzosa, MD, MBA, FASE, Administrative Director, Non-Invasive Cardiology, Robert Wood Johnson University Hospital

Faculty

Anthony Altobelli, III, MD, Assistant Clinical Professor of Medicine, Rutgers Robert Wood Johnson Medical School; Associate Chief Medical Officer, Robert Wood Johnson University Hospital, Clinical Chief of Cardiology, Robert Wood Johnson University Hospital and RWJBH Medical Group - RWJUH Service Area

Sasha-Ann East, MD, Assistant Professor of Medicine, Rutgers Robert Wood Johnson Medical School

Yasmin Hamirani, MD, Associate Professor of Medicine, Director of Structural Heart Imaging and Innovations, Rutgers Robert Wood Johnson Medical School

Yekaterina Kim, MD, FASE, Assistant Clinical Professor of Medicine, Rutgers New Jersey Medical School; Associate Program Director of Cardiovascular Fellowship, Newark Beth Israel Medical Center

Partho Sengupta, MD, FASE, Henry Rutgers Professor of Cardiology, Chief, Division of Cardiovascular Diseases and Hypertension, Rutgers Robert Wood Johnson Medical School; Chief of Cardiovascular Service Line, Robert Wood Johnson University Hospital

Daniel Shindler, MD, Professor of Medicine, Rutgers Robert Wood Johnson Medical School

Yanting Wang, MD, Assistant Professor of Medicine, Director of the Women's Heart Clinic, Rutgers Robert Wood Johnson Medical School

Ashley Chan, RDCS, Registered Cardiac Sonographer, Robert Wood Johnson University Hospital

Cynthia Christensen, RCS, Registered Cardiac Sonographer, Robert Wood Johnson University Hospital

Neerav Kumar, RCS, Registered Cardiac Sonographer, Robert Wood Johnson University Hospital

Audrey McIntyre, RN, Clinical Coordinator, Robert Wood Johnson University Hospital

Julio C. Perez-Mego, RCS, RCCS, RVS, Registered Cardiac Sonographer, Rutgers Robert Wood Johnson Medical School

Alexis Shelley, RCS, Registered Cardiac Sonographer, Robert Wood Johnson University Hospital

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The relevant financial relationships of all individuals who affect the content of continuing education activities and any discussion of off-label/investigational uses will be disclosed to the audience at the time of the activity.

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.

Agenda

7:45 am	Registration/Continental Breakfast/Exhibits	
8:15 am	Welcome Address	Partho Sengupta, MD, FASE
	Session 1: Systolic Function **Moderators: Yekaterina Kim, MD, FASE and Kameswari Maganti, MD, FASE**	
8:30 am	Systolic Function Assessment	Kameswari Maganti, MD, FASE
8:45 am	Case 1 - Heart Failure with Preserved Ejection Fraction (HFpEF)	Alicia Wright, RCS, FASE
9:00 am	Case 2 - Heart Failure with Reduced Ejection Fraction (HFrEF) with an Apical Thrombus	Sasha-Ann East, MD
9:15 am	Case 3 - Mechanical Circulatory Support: A Case of Impella	Alexis Shelley, RCS
9:30 am	Case 4 - It Is No Longer Forgotten: Assessment of Right Ventricle	Yekaterina Kim, MD, FASE
9:45 am	Panel Discussion; Audience Q&A	
10:00 am	Refreshment Break/Exhibits	
	Session 2: Diastolic Function **Moderators: Partho Sengupta, MD, FASE and Yanting Wang, MD**	
10:30 am	What is Diastolic Function? How Do You Assess It?	Partho Sengupta, MD, FASE
10:45 am	Case 1 - Is It Really Stiff? Guideline-Based Grading of Diastolic Dysfunction	Yanting Wang, MD
11:00 am	Case 2 - Comprehensive Evaluation of Cardiac Amyloidosis	Ashley Chan, RDCS
11:15 am	Panel Discussion; Audience Q&A	
	Session 3: Cardiac Masses **Moderators: Anthony Altobelli, III, MD and Daniel Shindler, MD**	
11:30 am	Assessment of Cardiac Masses	Anthony Altobelli, III, MD
11:45 am	Case 1 - The Many Faces of Endocarditis	Daniel Shindler, MD
12:00 pm	Case 2 - What is That Mass in the Pulmonary Artery?	Julio Perez-Mego, RCS, RCCS, RVS
12:15 pm	Panel Discussion; Audience Q&A	
12:30 pm	Lunch/Exhibits	
1:00 pm	How Do You Set Up and Perform Contrast Enhanced Ultrasound?	Audrey McIntyre, RN
	Session 4: Aortic Valve Disease **Moderators: Yasmin Hamirani, MD and Kameswari Maganti, MD, FASE**	
1:30 pm	Overview of Aortic Valve Disease	Yasmin Hamirani, MD
1:45 pm	Case 1 - Pitfalls of Echo Assessment of Severe Aortic Stenosis	Neerav Kumar, RCS
2:00 pm	Case 2 - What is Low Flow-Low Gradient Aortic Stenosis? How Do We Assess?	Kameswari Maganti, MD, FASE
2:15 pm	Panel Discussion; Audience Q&A	
2:30 pm	Refreshment Break/Exhibits	
	Session 5: Hands-On "How-To" Workshops **Facilitators: Ashley Chan, RDCS, Cynthia Christensen, RCS, Neerav Kumar, RCS and Alexis Shelley, RCS**	
3:00 pm	**Group 1** How to Do Strain Imaging Moderator: Yanting Wang, MD	**Group 2** How Do You Do 3D Echo Moderator: Sasha-Ann East, MD
4:00 pm	Break	
4:15 pm	Rotate Workshop Stations	
5:15 pm	Adjourn	

General Information

Registration Fees	
Physician	$50
Other Healthcare Professional	$40
RBHS/RWJBarnabas Faculty/Staff	$25
Resident/Fellow/Healthcare Student*	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 October 16, 2024.** 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/NJEcho

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

Rutgers Robert Wood Johnson Medical School
Clinical Academic Building
125 Paterson Street
New Brunswick, NJ 08901

Parking

Complimentary parking will be available in the Paterson Street parking deck located directly across from the Clinical Academic Building. Participants will receive additional information in their confirmation materials.

Cancellation Fee/Refund

A full refund, less a $25 cancellation fee, will be granted if notice is received no later than October 18, 2024. Refunds will not be issued for any cancellations received after October 18, 2024 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 reserves the right to cancel the activity, if necessary. If the activity is cancelled, liability is limited to the registration fee.