

Jeffrey M. Carlton Heart & Vascular Institute Presents:

38th ADVANCED ECHO CONFERENCE

October 25 – 26, 2024

The Waterfront Beach Resort, A Hilton Hotel
21100 Pacific Coast Highway
Huntington Beach, California 92648



PROGRAM DIRECTOR

David Liang, M.D., F.A.C.C.

Medical Director, Nancy & Bill Thompson
Heart Valve Center

Director, Noninvasive Cardiac Imaging
Jeffrey M. Carlton Heart & Vascular Institute

PROGRAM CO-DIRECTOR

Marc Gorman, R.D.C.S.

Supervisor, Echocardiography Laboratory
Jeffrey M. Carlton Heart & Vascular Institute

Supported by philanthropy through
the Hoag Hospital Foundation



Jeffrey M. Carlton
Heart & Vascular Institute



The 38th Advanced Echo Conference is offered in
cooperation with the American Society of Echocardiography.



California
CHAPTER

American College of Cardiology

INVITED FACULTY

Jin Kyung Kim, M.D., F.A.C.C., F.A.S.E.

Professor of Medicine
Medical Director, Cardiac Diagnostic Center
University of California, Irvine

Wyman W. Lai, M.D., M.P.H., M.B.A.

Medical Director, CHOC Echocardiography
Clinical Professor, UCI Department of Pediatrics

Rekha Mankad, M.D., F.A.C.C., F.A.S.E.

Assistant Professor of Medicine
Mayo Clinic College of Medicine
Director, Women's Heart Clinic
Director, Cardio-Rheumatology Clinic
Program Director, Advanced Echocardiography Fellowship
Mayo Clinic, Rochester, MN

Sunil Mankad, M.D., F.A.C.C., F.C.C.P., F.A.S.E.

Professor of Medicine
Mayo Clinic College of Medicine
Director, Transesophageal Echocardiography
Vice Chair Education and Quality, Division of
Cardiovascular Ultrasound
Mayo Clinic, Rochester, MN

David Ouyang, M.D., F.A.C.C.

Assistant Professor of Medicine
Cedar-Sinai Medical Center

Muhammed Saric, M.D., Ph.D., F.A.C.C., F.A.S.E.

Director, Noninvasive Cardiology
Professor of Medicine
New York University Langone Health

Robert J. Siegel, M.D., F.A.C.C.

Kennamer Chair in Cardiac Ultrasound
Director of Echocardiography, HCM and Aortopathy Clinics
Professor of Medicine Cedars-Sinai Medical Center
Distinguished Professor of Medicine UCLA

Mirela Tuzovic, M.D., F.A.C.C.

Director, Stanford Center for Marfan Syndrome
and Related Conditions
Clinical Assistant Professor, Division of
Cardiovascular Medicine,
Stanford University, Stanford CA

JEFFREY M. CARLTON HEART & VASCULAR FACULTY

Marc Gorman, R.D.C.S

Supervisor, Echocardiography Laboratory

David Liang, M.D., Ph.D., F.A.C.C.

Medical Director, Nancy & Bill Thompson Heart
Valve Center
Director, Noninvasive Cardiac Imaging

Natesa G. Pandian, M.D., F.A.C.C.

Physician Leader, Senior Cardiologist Professor of
Medicine, Tufts University

Asad A. Shah, M.D., F.A.C.C., F.A.C.S.

Co-Director, Cardiac Surgery

ACKNOWLEDGEMENT

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in cooperation with the American Society of
Echocardiography.

VENUE AND ACCOMMODATIONS

Program to be held at the Waterfront Beach Resort, A
Hilton Hotel, located at 21100 Pacific Coast Highway,
Huntington Beach, California. The hotel phone number is
714-845-8000. Room rates start at \$369-\$409 per night,
plus applicable taxes/resort fees, per room, based upon
availability. Reservations can be secured with a credit
card. Reservations should be made prior to Thursday,
October 3, 2024. Room block will no longer be available
after this date.

REGISTRATION FEES

- Member Physicians (ASE, ACC CA Chapter): \$640
- Nonmember Physicians: \$800
- Member Technologists / Sonographers / Allied Health Professionals / Fellows in Training / Students
(ASE, ACC CA Chapter): \$440
- Nonmember Technologists / Sonographers / Allied Health Professionals / Fellows in Training / Students: \$560

Register at [Hoag.org/AdvEchoConf](https://www.hoag.org/AdvEchoConf)

Questions: Hoagevents@hoag.org

OVERVIEW

CONFERENCE OVERVIEW

This program will include succinct didactics and interactive, case-based learning of the latest in clinical echocardiography. The program will present a variety of clinical problems and discuss the role of 2D/3D echo, Doppler modalities, strain imaging, flow quantitation, and contrast echo in the diagnosis and therapeutic guidance in a variety of clinical scenarios. In-depth discussion of the strengths of various echo techniques and parameters will be coupled with tips to avoid pitfalls. The conference will discuss the spectrum of valve disease – both common and uncommon, surgical and percutaneous interventions and complicated valve issues. Application of echo in aortic diseases, ischemic and non-ischemic myocardial disorders, acute and chronic heart failure, arrhythmic diseases, pericardial disorders and neoplastic pathology will be discussed with illustrative patient examples.

WHO SHOULD ATTEND

This program is intended for cardiologists, cardiac anesthesiologists, cardiac surgeons, intensivists, sonographers and nurses.

OBJECTIVES

- Describe the mechanisms, patho-anatomy, and severity assessment of mitral and aortic valve diseases using quantitative and semiquantitative parameters.
- Explain the role of echocardiography in clinical decision-making related to valve pathology and new advances in the echocardiographic assessment of tricuspid valve disease, and right heart pathologies.
- Recognize emerging applications for echo using artificial intelligence and recognize how Transthoracic echocardiography and Transesophageal echocardiography are used to help identify and manage endocarditis and prosthetic valve pathologies.
- Explain the role of echocardiography and its implications on diagnosis, surgical decision-making, and structural heart interventions and discuss the elements of transesophageal echocardiography in the perioperative and structural heart procedural settings.
- Describe the role of echo in the evaluation and treatment of aortic dissection and aortic disorders.
- Describe the applications of echocardiography advances and how it applies to the future of imaging of children and adults.
- Integrate echo evaluation in the diagnosis and treatment of pulmonary hypertension and right ventricular pathology.
- Recognize the role of echo Doppler in diagnosis of pericardial disease, diastolic dysfunction, and atrial cardiomyopathies and the implications for clinical management of patients.
- Evaluate the role of stress echo in CAD diagnosis and management.
- Examine emerging and innovative echo imaging for the management of cardio-oncology patients.

CME ACCREDITATION

Accreditation

Hoag Memorial Hospital Presbyterian is accredited by the California Medical Association (CMA) to provide continuing medical education for physicians.

Credit Designation



Hoag Memorial Hospital Presbyterian designates this educational activity for the maximum of 16.50 hours AMA PRA Category 1 Credits™. Physicians should claim credit commensurate with the

extent of their participation in the activity. This credit can apply to the CMA Certification of Continuing Medical Education.

PROGRAM AGENDA: OCTOBER 25 – 26, 2024

DAY 1 – FRIDAY, OCTOBER 25

7:30 a.m.	Registration, Exhibits and Breakfast	SESSION 4	Moderator: Dr. David Liang
8:00 a.m.	Welcome, Introductions and Program Format	3:30 p.m.	Wet lab Demonstration of Valvular and Chamber Anatomy – Implications on Diagnosis/Surgery/Interventions TBD
SESSION 1	Moderator: Dr. David Liang	4:15 p.m.	Bicuspid Aortic Valve, Aortic Dissection and Other Aortic Disorders Dr. David Liang
8:30 a.m.	Mitral Regurgitation and Mitral Stenosis Dr. Robert Siegel	4:45 p.m.	Questions and Answers, Discussion
9:10 a.m.	Aortic Stenosis Dr. Sunil Mankad	5:00 p.m.	Doppler Hemodynamics Interactive Workshop Dr. Natesa Pandian and Dr. Muhamed Saric
9:45 a.m.	Aortic Regurgitation Dr. David Liang	5:50 p.m.	Sonographer Questions and Answers Mr. Marc Gorman and Dr. Jin Kim
10:15 a.m.	Morning Break and Exhibits	6:30 p.m.	Adjourn
SESSION 2	Moderator: Dr. Rekha Mankad		
10:45 a.m.	Tricuspid Regurgitation and Stenosis Dr. Muhamed Saric		
11:15 a.m.	Wide spectrum Of Varied Pathology Causing Valve Disorders Dr. Rekha Mankad		
11:45 p.m.	Questions and Answers		
12:00 p.m.	Lunch and Exhibits		
SESSION 3	Moderator: Dr. Mirela Tuzovic		
1:00 p.m.	Artificial Intelligence (AI) Applications in Echocardiography Dr. David Ouyang		
1:30 p.m.	Hypertrophic Cardiomyopathy – The Spectrum and Guide to Treatment Dr. Robert Siegel		
2:00 p.m.	Endocarditis, always a Challenge Dr. Jin Kim		
2:30 p.m.	Prosthetic Valve Function and Dysfunction (Normal and Abnormal Values and Pathology) Dr. Sunil Mankad		
3:00 p.m.	Afternoon Break and Exhibits		

DAY 2 – SATURDAY, OCTOBER 26

7:00 a.m.	Registration, Exhibits and Breakfast	SESSION 7	Moderator: Dr. Sunil Mankad
SESSION 5	Moderators: Marc Gorman and Dr. David Liang	1:20 p.m.	Heart Failure with Decreased EF – How to Sort Out Causes? Dr. Muhamed Saric
7:30 a.m.	Adult Congenital Heart Disease – A Tour Dr. Wyman Lai	1:50 p.m.	Heart Failure with Preserved EF – What Do We Look for in Echo? Dr. Rekha Mankad
8:20 a.m.	Robotic Cardiac Surgery – What Imaging Information is Critical Dr. Asad Shah	2:20 p.m.	Increased LV Wall Thickness and Heart Failure – How to Use Echo to Assess the Cause? Dr. Sunil Mankad
9:10 a.m.	Cardiac Masses – How to Sort Them Out? Dr. Sunil Mankad	2:50 p.m.	Athletes Heart – Important Distinction from True Pathology Dr. Robert Siegel
9:40 a.m.	Pulmonary Hypertension and RV Function Dr. David Liang	3:10 p.m.	Cardio-Oncology - Impact on Cardiac Function on Cancer Therapy. How to Use Echo to Recognize Them? Dr. Mirela Tuzovic
10:00 a.m.	Morning Break and Exhibits	3:40 p.m.	Afternoon Break and Exhibits
SESSION 6	Moderator: Dr. Robert Siegel	SESSION 8	Moderators: Dr. David Liang and Mr. Marc Gorman
10:30 a.m.	Pericardial Disorders Dr. Robert Siegel	4:10 p.m.	Cases of Patients with Chest Pain, Cases of Patients with Shortness of Breath, Cases of Patients with Palpitations, Patients with Syncope, Patients with Emboli, Patients with Shock, Patients with Unexplained Symptoms All Faculty
11:00 a.m.	Stress Echo for CAD – All Aspects Dr. Muhamed Saric	6:00 p.m.	Program Adjourns
11:30 a.m.	Atrial Cardiomyopathy and Consequences Dr. Natesa Pandian		
12:00 a.m.	Diastolic Dysfunction and Filling Pressure Assessment – How Reliable are the Echo Parameters? Dr. Sunil Mankad versus Dr. Muhamed Saric		
12:30 p.m.	Lunch and Exhibits		