

## CME INFORMATION

# Chicago Hemodynamic Forum November 15, 2024 Chicago, IL

### **Target Audience**

This activity is designed to meet the educational requirements for Cardiologists, Intensivists, Internists, Nurses, Advanced Practice Providers, and Trainees.

### **Overview**

The purpose of this educational activity is to discuss best practices in hemodynamic assessment and interpretation across the spectrum of cardiovascular disease processes.

### **Learning Objectives**

- Identify best practices for performing and interpreting invasive hemodynamic measurements and waveforms.
- Interpret hemodynamic assessment via pressure-volume loops, as well as methods for their direct and in-direct measurement.
- Describe the differences between pressure and volume assessment, and its role in invasive hemodynamic assessment.
- Recognize hemodynamic prognosticators of advanced heart failure, cardiogenic shock, and myocardial recovery.
- Demonstrate comprehension of the hemodynamic effects of exercise on patients with dyspnea, heart failure, pulmonary hypertension, and those implanted with left ventricular assist devices.
- Identify which patients will benefit from exercise invasive hemodynamic testing for evaluation of dyspnea and be able to interpret the results to achieve a diagnosis.
- Describe the hemodynamic effects of implanted devices for heart failure management, including interatrial shunt devices, neuro-hormonal modulators, and left ventricular assist devices.
- Discuss the effects of the right ventricle and pericardium on cardiac hemodynamics.
- Demonstrate a comprehension of hemodynamic changes seen with durable left ventricular assist device support, including in the peri-operative, chronic, and exercise settings.
- Describe the role of continuous, remote hemodynamic assessment (both invasive and non-invasive) in the diagnosis and management of patients with dyspnea, heart failure, and pulmonary hypertension.

### **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 *CMEsolutions* and Gaffney Events. The *CMEsolutions* is accredited by the ACCME to provide continuing medical education for physicians.

The *CMEsolutions* designates this live activity for a maximum of 6.75 *AMA PRA Category 1 Credits™*. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

### **American Board of Internal Medicine (ABIM) MOC**

Successful completion of this CME activity, which includes participation in the evaluation component and 75% passing on MOC test, enables the participant to earn up to 6.75 Medical Knowledge MOC points in the American Board of Internal Medicine's (ABIM) Maintenance of Certification (MOC) program. It is the CME activity provider's responsibility to submit participant completion information to ACCME for the purpose of granting ABIM MOC credit.

*ABIM MOC points will be reported within 30 days of claiming credit.*

### **PARTICIPATION REQUIREMENTS**

1. Read CME Information.
2. Attend/Participate in Sessions – credit given commensurate with attendance.
3. Log onto the following URL: <https://online-med-edu.com/chf/111524/cme/>
4. Complete evaluation, credit request form, ABIM MOC request (if applicable), and download or print credit statement/certificate. MOC credit will appear in your ABIM account within 30 days after successful completion of your request.

***Participants have 60 days to claim credit.***

***ABIM MOC points will be reported within 30 days of claiming credit.***

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**FACULTY DISCLOSURES**

*CMEsolutions* requires everyone in a position to control the content of this activity to disclose any relevant financial conflict of interest they may have as related to the content of this activity. All identified conflicts of interest are thoroughly vetted by *CMEsolutions* for fair balance, scientific objectivity of studies mentioned in the materials or used as the basis for content, and appropriateness of patient care recommendations. *CMEsolutions* has resolved all conflicts of interest prior to this educational activity.

The following faculty have indicated that they may have a relationship, which in the context of their presentation(s), could be perceived as a potential conflict of interest:

Name	Company	Relationship
Dan Burkhoff, MD, PhD	Zoll Therox; Boston Scientific	Consulting
Bow Chung, MD	Boehringer Ingelheim; Pfizer	Teaching and Speaking
William Cornwell III, MD	Merck Corp.	Research
Jennifer Cowger, MD, MS	Abbott	Teaching and Speaking, Consulting, Advisor or Review Panel Participant; Research
	Medtronic	Consulting, Research
	Berlin Heart; BiVacor; AstraZeneca	Advisor or Review Panel Participant
	CorWave; Pumpin Heart	Consulting
	Endotronix, Inc.; Nuwelllis	Research
	Bioventrix	Consulting, Teaching and Speaking
	Zoll	Teaching and Speaking
	BrioHealth Solutions	Teaching and Speaking, Consulting, Research
	Procyron	Advisor or Review Panel Participant, Ownership Interest (stock, stock options in a publicly owned company), Research

Marat Fudim, MD	NIH; Alleviant; Gradient; Reprieve; Sardocor; and Doris Duke	Research
	Abbott; Astellas; CVRx; Daxor; Medtronic; Novo Nordisk; SCPharma; Terumo; Zoll	Consulting, Ownership Interest (stock, stock options in a publicly owned company)
	Acorai; Ajax; Alio Health; Alleviant; Artha; Audicor; AxonTherapies; Bodyguide; Bodyport; Boston Scientific; Broadview; Cadence; Cardiosense; Cardioflow; Edwards LifeSciences; Echosens; EKO; Endotronix; Feldschuh Foundation; Fire1; FutureCardia; Galvani; Gradient; Hatteras; HemodynamiQ; Impulse Dynamics; ISHI; NucleusRx; NXT Biomedical; Omega; Orchestra; Parasym; Pharmacosmos; Presidio; Procyreon; Proton Intelligence; Puzzle; ReCor; Shifamed; Splendo; STAT Health; Summacor; SyMap; Vascular Dynamics; Vironix; Viscardia	Consulting, Ownership Interest (stock, stock options in a privately owned company)
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	Acceleron; Merck; Aerovate; Altavant; Gossamer	Research
	United Therapeutics; Apollo; Acceleron; Merck; Aerami; Janssen; JucaBio; Keros; United Therapeutics	Consulting
Rohan Goswami, MD	Abiomed	Research
	CVRx	Teaching and Speaking
Jonathan Grinstein, MD	Abbott	Teaching and Speaking, Consulting
	Medtronic; Abiomed; BrioHealth	Teaching and Speaking
	PAC Dynamic	Advisor or Review Panel Participant, Intellectual property rights (royalties or patent sales)
Thomas Hanff, MD	Abiomed	Research
Albert Hicks III, MD, MPH	Abbott	Teaching and Speaking, Advisor or review panel participant
Brian Houston, MD	Edwards Lifesciences	Consulting
	Aria CV	Independent contractor (including contracted research)
	Bioventrix	Research
Liviu Klein, MD	Abbott, Medtronic	Teaching and Speaking, Consulting
	Ancora Heart	Research
	Boston Scientific	Consulting
	Edwards Lifesciences	Teaching and Speaking, Consulting, Research
	Cardiosense	Consulting, Ownership interest (stock, stock options in a publicly owned company)

Gregory Lewis, MD	Rivus Pharmaceuticals	Research, Advisor or review panel participant
	Ask Bio	Advisor or review panel participant
	Edwards Lifesciences	Consulting
	Amgen; Cytokinetics; Pfizer; NIH; Applied Therapeutics	Research
Susanna Mak, MD, PhD	Astra Zeneca; Accorai	Independent contractor (including contracted research)
Nikhil Narang, MD	Boehringer Ingelheim; Astra Zeneca	Teaching and Speaking
	BridgeBio	Consulting
Sean Pinney, MD	Abbott; ADI; Ancora; BMS; CareDx; Cordio; Impulse Dynamics; Medtronic; Nuwellis; Procyron; Restore Medical; Transmedics; Valgen Medtech	Consulting
Andrew Sauer, MD	Abbott; Boston Scientific; Bayer	Teaching and Speaking, Consulting, Research
	Astra Zeneca	Consulting, Research
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Ryan Tedford, MD	Abbott; Acorai; Adona; Aria CV Inc.; Acceleron/Merck; Alleviant; Boston Scientific; Cytokinetics; Edwards LifeSciences; Gradient; Medtronic; Morphic Therapeutics; Restore Medical; United Therapeutics	Consulting
	Abiomed; Abbott; Edwards; Endotronix; Merck	Advisor or review panel participant
	Aria CV	Ownership interest (stock, stock options in a publicly owned company)
Adriano Tonelli, MD	Janssen	Consulting
	Merck	Consulting, Research
Nir Uriel, MD	Leviticus; Live Metric; Revamp	Advisor or review panel participant
	Fire1	Consulting, Research
	Abbott; Abiomed	Teaching and Speaking, Consulting, Research

All other individuals have indicated no relationship which, in the context of their involvement, could be perceived as a potential conflict of interest.

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- **Abbott Laboratories**
- **ABIOMED, Inc.**
- **Edwards Lifesciences, LLC**
- **Zoll**

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No member of *CMEsolutions* or Gaffney Events has any relevant financial relationships to disclose regarding this activity.

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There are fees for participating in this activity.

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