CME INFORMATION

# 2026 Chicago Hemodynamic Forum
# November 6, 2026
## Chicago, IL

**Learning Objectives**

- Discuss the variable hemodynamic effects of extra-corporeal membrane oxygenation (ECMO) on systemic hemodynamics
- Identify best practices for performing and interpreting invasive hemodynamic measurements and waveforms
- Discuss the practical needs to complete a supine and upright invasive exercise hemodynamic test
- Describe the practical needs to complete invasive pressure-volume loop assessment
- Differentiate between phenotypes of heart failure with preserved ejection fraction (HFpEF) based on underlying hemodynamics
- Describe the pros and cons of supine versus upright invasive hemodynamic exercise testing
- Describe common mistakes and pitfalls in hemodynamic interpretation
- Discuss the physiologic underpinnings of intrathoracic pressure and how it applies to invasive hemodynamic assessment
- Describe improved hemodynamic phenotyping, for trial inclusion, and hemodynamic targets for clinical trial design for HFpEF, pulmonary hypertension, and cardiogenic shock
- Identify equipment needed for a modern invasive hemodynamic cardiac catheterization laboratory
- Interpret hemodynamic assessment via pressure-volume loops, as practical considerations for their direct and in-direct measurement
- Interpret invasive hemodynamic cardiopulmonary exercise stress testing results.
- Demonstrate an understanding of hemodynamic changes seen with durable left ventricular assist device support, including in the peri-operative, chronic, and exercise settings
- Explain their understanding of engineering opportunities and limitations to improve hemodynamic-related cardiac devices
- 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
- Discuss the advantages and disadvantages of the various invasive and non-invasive remote hemodynamic monitoring devices

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## FACULTY DISCLOSURES

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