# Stanford’s 3rd Annual Mechanical Circulatory Support: Optimal Management and New Frontiers

A Continuing Medical Education Conference Presented by the Department of Cardiothoracic Surgery and the Division of Cardiovascular Medicine at the Stanford University School of Medicine

**June 3, 2017 • 7:00 AM – 4:20 PM**  
Li Ka Shing Center for Learning and Knowledge  
Stanford, CA

<table>
<thead>
<tr>
<th>Program (subject to change)</th>
<th>Faculty</th>
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</table>
| Registration and Light Breakfast | **Course Director**  
Richard Ha, MD  
Surgical Director, Mechanical Circulatory Support Program  
Clinical Assistant Professor, Cardiothoracic Surgery |
| Welcome and Announcements | **Course Co-Director**  
Dipanjan Banerjee, MD, MS  
Medical Director, Mechanical Circulatory Support Program  
Clinical Associate Professor, Medicine – Cardiovascular Medicine |
| Mechanical Circulatory Support: Overview | **Intensive Care Unit Management of MCS Patients**  
Joseph Woo, MD |
| Who is the Right Patient for MCS? | **Inpatient Management of MCS Patients**  
Dipanjan Banerjee, MD  
Intensive Care Unit Management of MCS Patients |
| Pressors and Other Stressors | **Outpatient Management of MCS Patients**  
Vidya Rao, MD  
Vidya Rao, MD |
| Transesophageal Echocardiography | **New Frontiers in MCS**  
Charles Hill, MD  
Charles Hill, MD |
| Percutaneous Support | Break  
**Course Director**  
Richard Ha, MD |
| Pressors and Other Stressors | Break  
Vidya Rao, MD, MD  
Vidya Rao, MD, MD |
| Transesophageal Echocardiography | **Inpatient Management of MCS Patients**  
Charles Hill, MD  
Charles Hill, MD |
| Percutaneous Support | **Outpatient Management of MCS Patients**  
Richard Ha, MD  
Richard Ha, MD |
| Infections | **New Frontiers in MCS**  
Shanti Kappagoda, MD  
Shanti Kappagoda, MD |
| Stroke |  
Neil Schwartz, MD  
Neil Schwartz, MD |
| Panel Discussion: Mechanical Circulatory Support — Inpatient Management |  
Richard Ha, MD; Dipanjan Banerjee, MD; Charles Hill, MD; Dipanjan Banerjee, MD; Kelly Cordero, NP; Neil Schwartz, MD; Shanti Kappagoda, MD |
| Panel Discussion: Mechanical Circulatory Support — Outpatient Management |  
Richard Ha, MD; Dipanjan Banerjee, MD; Sebastien Duclos, PA; Casey Miller, NP; Stacey Tullis, RN; Sara Vande Vrede, RN; Cherry Jumoc, RN; Karim Sallam, MD; Matthew Wheeler, MD, PhD |
| Driveline Complications and Anticoagulation |  
Stacey Tullis, RN  
Stacey Tullis, RN |
| Blood Pressure Management |  
Sebastien Duclos, PA  
Sebastien Duclos, PA |
| Anticoagulation |  
Cherry Jumoc, RN and Sara Vande Vrede, RN  
Cherry Jumoc, RN and Sara Vande Vrede, RN |
| Advance Care Planning for MCS Patients |  
Casey Miller, NP  
Casey Miller, NP |
| Panel Discussion: Mechanical Circulatory Support — Outpatient Management |  
Richard Ha, MD; Dipanjan Banerjee, MD; Sebastien Duclos, PA; Casey Miller, NP; Stacey Tullis, RN; Sara Vande Vrede, RN; Cherry Jumoc, RN; Karim Sallam, MD; Matthew Wheeler, MD, PhD |
| Hemodynamic Evaluation |  
Dipanjan Banerjee, MD  
Dipanjan Banerjee, MD |
| Evaluation of Recovery |  
Matthew Wheeler, MD, PhD  
Matthew Wheeler, MD, PhD |
| Stem Cells |  
Karim Sallam, MD  
Karim Sallam, MD |
| Future of MCS |  
Richard Ha, MD  
Richard Ha, MD |
| Closing Remarks and Adjourn |  
Closure  
**Course Co-Director**  
Dipanjan Banerjee, MD, MS  
Medical Director, Mechanical Circulatory Support Program  
Clinical Associate Professor, Medicine – Cardiovascular Medicine |

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**FACULTY DISCLOSURE**

The Stanford University School of Medicine adheres to ACCME Criteria, Standards and Policies regarding industry support of continuing medical education. Disclosure of faculty and their commercial relationships will be made prior to the activity.
Conference Information

STATEMENT OF NEED
This CME workshop seeks to improve the knowledge of cardiology physicians, cardiothoracic surgeons, nurses and nurse practitioners regarding appropriate options in mechanical circulatory support (MCS) for patients with end stage heart failure and management of these patients before and after receiving MCS. We will include review of clinical criteria to refer patients, different types of MCS and the scenarios for their use, strategies to support and manage patients prior to and post MCS, based on latest development in treatment. We will employ didactic lectures, interactive cases, and small group discussions to improve learner's knowledge of evidence based management of patients with end stage heart failure.

TARGET AUDIENCE
This is a regional program, designed for physicians, nurse practitioners, nurses, and allied health professionals who practice in the fields of:
• Cardiology
• Cardiothoracic Surgery
• Internal Medicine

LEARNING OBJECTIVES
At the conclusion of this activity, learners will be able to:
• Identify and implement clinical criteria to refer patients who may benefit from mechanical circulatory support at an optimal time to create better patient outcomes.
• Identify appropriate patients for emergent mechanical circulatory support and select appropriate therapy options (ECMO, percutaneous pVAD, intra-aortic balloon pump).
• Optimally manage patients prior to MC by initiating inotropic therapy at the appropriate time and serially monitoring right ventricular and end organ function.
• Discuss the need and opportunities to build a MCS framework that includes appropriate infrastructure and personnel, and partnering with referring providers.
• Develop strategies to manage post MCS complications based on the latest development in treatment for patients with:
  • Gastrointestinal bleeding post LVAD
  • Arrhythmias post LVAD
  • Right ventricular failure post LVAD

ACCREDITATION
The Stanford University School of Medicine is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

CREDIT DESIGNATION
The Stanford University School of Medicine designates this live activity for a maximum of 6.50 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity. The California Board of Registered Nursing recognizes that Continuing Medical Education (CME) is acceptable for meeting RN continuing education requirements; as long as the course is certified for AMA PRA Category 1 Credit™ (rn.ca.gov). Nurses will receive a Certificate of Participation following this activity that may be used for license renewal.

COMMERCIAL SUPPORT ACKNOWLEDGEMENT
This CME activity is supported in part by educational grants A complete list of commercial supporters will be published in the course syllabus.

REGISTRATION
Registration fee includes course materials, certificate of participation, breakfast, and lunch.
Register online with a Visa or Master Card by visiting cme.stanford.edu/mcs. If you prefer to pay by check or need assistance, please call (650) 497-8554 or email stanfordcme@stanford.edu. Be sure to register with an email address that you check frequently. Your email address is used for critical information including: registration confirmation, evaluation, and certificate.

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<tr>
<td>Nurse/AHP</td>
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CANCELLATION POLICY
Cancellations received in writing no less than 30 days before the course will be refunded, less a 20% administrative fee. No refunds will be made on cancellations received after that date. Please send cancellation requests to stanfordcme@stanford.edu.

CONFERENCE LOCATION
Li Ka Shing Center for Learning and Knowledge
291 Campus Drive, 2nd Floor Conference Center
Stanford, California 94305
conferencecenter.stanford.edu

ACCOMMODATIONS
Hotels near campus:
Sheraton Palo Alto Hotel (650) 328-2800
The Westin Palo Alto (650) 321-4422
Please contact the hotel directly to secure a reservation.

VISITOR INFORMATION
To learn more about traveling to Stanford University, please browse visit.stanford.edu.

CONTACT INFORMATION
For questions about the symposium, please contact Yolanda Cervantes, CME Conference Coordinator at (650) 724-9549 or ycervant@stanford.edu.

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If you have needs that require special accommodations, including dietary concerns, please contact the CME Conference Coordinator.

Please register early – space is limited • Register online at cme.stanford.edu/mcs