A Continuing Medical Education Conference presented by the Divisions of Cardiovascular Medicine and Cardiothoracic Surgery at the Stanford University School of Medicine

- Intensive Care Unit Management
- Inpatient Management
- Outpatient Management
- New Frontiers in MCS

June 9, 2018  7:00 AM – 3:40 PM
Li Ka Shing Center for Learning and Knowledge
Stanford, CA

### Program *(subject to change)*

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>7:00-8:00 AM</td>
<td>Registration and Light Breakfast</td>
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<tr>
<td>8:00-8:10</td>
<td>Welcome &amp; Announcements</td>
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<tr>
<td></td>
<td>Dipanjan Banerjee MD, MS</td>
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<tr>
<td>8:10-8:30</td>
<td>Overview of Mechanical Circulatory Support – Adult</td>
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<tr>
<td></td>
<td>Jeffrey Teuteberg, MD</td>
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<tr>
<td>8:30-8:50</td>
<td>Overview of Mechanical Circulatory Support – Pediatric</td>
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<td>David Rosenthal, MD</td>
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<td>8:50-9:10</td>
<td>MCS vs Heart Transplant: Pro</td>
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<td>Dipanjan Banerjee, MD</td>
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<td>9:10-9:30</td>
<td>MCS vs Heart Transplant: Con</td>
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<td>William Hiesinger, MD</td>
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<td>9:30-9:50</td>
<td>Break</td>
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<tr>
<td>9:50-10:10</td>
<td>Unique Challenges in Pediatric VADs</td>
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<td>Jenna M. Murray, MS, RN, CPNP-AC</td>
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<td>10:10-10:30</td>
<td>Shared Care for VADs: Coordinator Perspective (Adult)</td>
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<td>Chermymae Jumoc, RN, Omar Joseph Odeh, BSN-RN</td>
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<td>10:30-10:50</td>
<td>Shared Care for VADs: Medical Perspective</td>
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<td>Sirtaz Adatya, MD</td>
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<td>10:50-11:10</td>
<td>Shared Care for VADs: Surgical Perspective</td>
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<td>Richard Ha, MD</td>
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<td>11:10-11:20</td>
<td>Preparing Patients for LVADs – Before and After</td>
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<td>Catherine Nash, LCSW</td>
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<td>11:20-11:50</td>
<td>Round Robin (All Faculty)</td>
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<td>11:50-12:50 PM</td>
<td>Lunch</td>
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<td>12:50-1:10</td>
<td>Adult Track: Managing VADs</td>
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<td>Shirin Zarafshar, MD</td>
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<td>1:10-1:30</td>
<td>Anticoagulation in LVADs</td>
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<td>Karim Sallam, MD</td>
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<td>1:30-1:50</td>
<td>Hemodynamics in LVAD</td>
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<td>Matthew Wheeler, MD</td>
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<td>1:50-2:10</td>
<td>LVADs and Exercise/Frailty</td>
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<td>Francois Haddad, MD</td>
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<td>2:10-2:30</td>
<td>LVADs and Transplant</td>
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<td>Christopher Almond, MD</td>
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<td>2:30-2:50</td>
<td>LVAD Complications</td>
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<td>Sebastien Duclos, PA, Alex Lyapin, NP</td>
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<td>2:50-3:10</td>
<td>Round Table</td>
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<td>All Faculty</td>
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<td>3:10-3:40 PM</td>
<td>Break</td>
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<td>All Faculty</td>
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<td></td>
<td>MCS Case Studies</td>
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<td>All Faculty</td>
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Sponsored by the Stanford University School of Medicine
Course Directors & Reviewer:

Course Director
Dipanjan Banerjee, MD, MS
Medical Director, Mechanical Circulatory Support Program
Clinical Assistant Professor, Cardiovascular Medicine

Co-Course Director
William Hiesinger, MD
Assistant Professor, Cardiovascular Surgery

Reviewer
Matthew Wheeler, MD, PhD
Clinical Assistant Professor, Cardiovascular Medicine

Guest Speakers:

Sirtaz Adatya, MD
Medical Director of Mechanical Circulatory Support
Kaiser Permanente, Santa Clara

Richard Ha, MD
Surgical Director of Mechanical Circulatory Support
Kaiser Permanente, Santa Clara

Stanford Faculty:

Christopher Almond, MD
Associate Professor, Pediatrics (Cardiology)

Dipanjan Banerjee, MD, MS
Medical Director, Mechanical Circulatory Support Program
Clinical Assistant Professor, Cardiovascular Medicine

Sebastien Duclos, PA
Physician Assistant, Care Team
– Mechanical Circulatory Support Program

Francois Haddad, MD
Clinical Associate Professor, Cardiovascular Medicine

William Hiesinger, MD
Assistant Professor, Cardiovascular Surgery

Cherrymae Jumoc, RN
VAD RN Coordinator, Care Team
– Mechanical Circulatory Support Program

Alexey Lyapin, NP
Nurse Practitioner, Care Team
– Mechanical Circulatory Support Program

Katsuhide Maeda, MD
Clinical Associate Professor, Pediatric Cardiac Surgery

Jenna M. Murray, MSN, RN, CPNP-AC
Ventricular Assist Device Coordinator/Heart Failure Nurse Practitioner

Catherine Nash, LCSW
Social Worker, Care Team
– Mechanical Circulatory Support Program

Omar Joseph Odeh, BSN-RN
VAD Coordinator, Care Team
– Mechanical Circulatory Support Program

David Rosenthal, MD
Professor, Pediatric Cardiology

Karim Sallam, MD
Clinical Assistant Professor, Cardiovascular Medicine

Jeffrey Teuteberg, MD
Associate Professor, Cardiovascular Medicine

Matthew Wheeler, MD, PhD
Clinical Assistant Professor, Cardiovascular Medicine

Shirin Zarafshan, MD
Clinical Assistant Professor, Cardiovascular Medicine

Faculty

All faculty are with the Stanford University School of Medicine unless otherwise noted.

Conference Information

Statement of Need
This CME workshop seeks to improve the knowledge of cardiology physicians, cardiologists, 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 developments in treatment. We will employ didactic lectures, interactive cases, and small group discussions to improve learners’ knowledge of evidence-based management of patients with end-stage heart failure.

Target Audience
This regional conference is designed to meet the educational needs of:

- Physicians, specializing in Cardiology or Cardiothoracic Surgery
- Nurses/Other Allied Health Professionals

Learning Objectives
At the conclusion of this activity, participants should be able to:

1. Identify and implement clinical criteria to refer patients who may benefit from mechanical circulatory support (MCS) at an optimal time to improve patient care.
2. Identify appropriate patients for emergent MCS and select appropriate therapy options (ECMO, percutaneous ventricular assist device (pVAD), intra-aortic balloon pump).
3. Optimally manage patients prior to MCS by initiating inotropic therapy at the appropriate time and serially monitoring right ventricular and end organ function.
4. Develop strategies to manage post-MCS complications based on the latest developments in treatment for patients who:
   - Gastrointestinal bleeding post-left ventricular assist device (LVAD)
   - Arrhythmias post-LVAD
   - Right ventricular failure post-LVAD
5. Discuss the need and opportunities to build a MCS framework that includes appropriate infrastructure and personnel, and partnering with referring providers.
6. Create an algorithm for learners to determine which MCS complications can be managed at their center vs. the implanting institution.
7. Determine the centers available for MCS for pediatric patients and the types of treatment options they can provide.

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 5.75 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.

Registation
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.

Attendee Type

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<thead>
<tr>
<th>Attendee Type</th>
<th>Fees</th>
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<tbody>
<tr>
<td>Physicians</td>
<td>$175</td>
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<tr>
<td>Nurses/Other Allied Health Professionals</td>
<td>$125</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
(650) 725-6884
conferencecenter.stanford.edu

Accommodations
Nearby hotels to 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 Debbie Aube, CME Conference Coordinator at (650) 724-5318 or debbie.aube@stanford.edu.

Stanford Center for Continuing Medical Education
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(650) 497-8554 • cme.stanford.edu

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