**Our Programs**

We offer unbiased, human-centered design services provided by world-class cardiovascular physicians from the Minneapolis Heart Institute®. The Cardiovascular Learning and Innovation Center reduces bureaucratic innovation barriers by waiving all rights to publications, intellectual property or royalties for services rendered. All educational services are developed and taught by world-class cardiovascular physicians.

All proceeds are allocated directly to support the Cardiovascular Learning and Innovation Center and MHIF research and education programs. Physician faculty do not receive direct compensation for services provided as part of the Cardiovascular Learning and Education Center.

Educational content is designed using state-of-the-art imaging modalities (magnetic resonance imaging, computed tomography imaging and echocardiographic imaging) that provide comprehensive images and videos to enable the learner to gain an in-depth understanding of various cardiovascular diseases.

**Cardiovascular Areas of Focus**

- Advanced Coronary Interventions (CCAD)
- Cardiothoracic Surgery
- Clinical Cardiology
- Electrophysiology
- Gene Therapy, Stem Cells and Biomaterials
- Heart Failure and Transplant/VAD
- Imaging
- Interventional
- Prevention and Population Health
- Valve and Structural Heart Disease
- Vascular and Endovascular Surgery
- Women’s Cardiovascular Health

**Visit mplsheart.org/CLIC for upcoming, scheduled events**

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mplsheart.org
Our Programs

1. **Live Case Viewing** (Live Streaming)

   Unique learning experience to view intricate details of an operating room procedure, without the “burden” of being there (e.g., no credentialing or need to change into scrubs)

   Get a live-stream comprehensive view of cardiovascular procedures in the comfort of the MHIF Learning Center. Live cases are projected on large screen monitors with visibility to the same data monitors the physicians use during the procedure. Potential for direct interaction with the physician during “non-procedure” moments to further enhance your educational experience.

   - Minimum 5 participants
   - Includes 1 hour evening debrief
   - Estimated 2-3 cases per day

2. **Evening Grand Rounds**

   Physician-to-physician dialog highlighting therapy decisions/recommendations for optimal treatment

   Engage in physician-to-physician dialog while they discuss specific patient cases. Experience an in-depth process on the language, data and diagnostic tools used while physicians, from various subspecialties discuss patient disease states and co-morbidities. This experience will enhance your knowledge on the process and data physicians use to determine optimal patient care pathways.

   - Minimum 8 participants
   - Minimum 2-hour evening debrief session
   - Maximum 15 participants
   - 2-4 cases reviewed per session, contingent on audience engagement

3. **Clinical Immersion Session**

   Engage in the work flow process and “life of a physician” during clinical rounds

   Better understand a day-in-the-life of physicians and medical staff in their specific area of cardiovascular expertise. Session enables participants to engage in the daily care and management of patients through in-depth clinical round examples and case discussions. Topics typically covered include patient evaluation, diagnostic information, lab tests selected, colleagues consulted, patient compliance, and physician time and follow-up actions.

   - Up to 15 attendees per session
   - Minimum two-hour session contingent upon engagement of audience questions

4. **Clinical Consultation**

   Transform your ideas into clinical reality with our world-class cardiovascular experts

   Assess the unbiased clinical utility of your ideas with nationally recognized cardiovascular leaders. Whether you choose a single or multi-physician consultation agreement, our physicians will guide you with their clinical knowledge and experience to help transform your ideas into clinical reality. Flexible consulting agreements aid in the rapid clinical assessment and development of your ideas.

   - General consultation customized to customer needs
   - Specific clinical disciplines selected for consultation team
   - Development agreements available *(call for details)*
   - Phone consultation is an option for rapid assessment; typically occurs within three business days from request

Visit mplsheart.org/CLIC for our scheduled events, including: seminars, workshops, Lunch-n-Learns and more.
Your biodesign cardiovascular clinical consulting and education team
Transform your ideas with our world-class cardiovascular experts

5 Course Modules
Courses developed and taught by world-class physicians

Immersion in educational and clinical content on specific cardiovascular areas of focus that can be combined to create a customized training program. All course curriculum is developed and taught by physicians so you get a blended combination of medical knowledge and experience in each course.

- Up to 15 attendees per course module

6 Imaging Consultation
Engage with expert imaging cardiologists using advanced multi-modality imaging techniques

Gain a thorough understanding of cardiovascular morphology and function with a 1:1 consultation with a cardiovascular imaging physician specialist. The imaging consultation will be customized to suit your needs and provide you with a comprehensive review of cardiovascular anatomy and function using our extensive imaging database collection comprised of Echocardiography (3D and TEE), Cardiac Magnetic Resonance (CMR) and Computed Tomography (CT) imaging modalities.

- Minimum 2-hour consult session required

7 Custom Case Review
Experience intricate details of surgical procedures with pre-recorded cases and one-on-one tutorial with case physician

Pre-recorded cases covering selected cardiovascular surgical procedures are provided with the physician who performed the procedure. No credentialing or need to change into scrubs. Cameras provide visibility to data screens used in procedure, as well as product prep and physician handy/eye motion.

- Up to 5 attendees per case
- Maximum 4 cases per session

Key Advantages:
- High cardiovascular procedure volume
- Reduced bureaucratic barriers to innovation
- Selective services tailored to your needs
- Early assessment of your concept’s clinical utility
Minneapolis Heart Institute® at Abbott Northwestern Hospital World-Class Cardiovascular Experts

- 60 cardiologists and 15 cardiac and vascular surgeons
- Ranked #19 nationally in cardiology and heart surgery
- 193 publications in 2018 in key medical journals including:
  - Journal of the American Medical Association (JAMA)
  - New England Journal of Medicine (NEJM)
  - Circulation
  - Journal of the American College of Cardiology (JACC)
  - European Heart Journal (EHJ)
- Nationally recognized cardiovascular leaders with physicians on editorial boards of key medical journals including:
  - Journal of the American College of Cardiology (JACC)
  - Circulation
  - Journal of the American Medical Association (JAMA)
  - Catheterization and Cardiovascular Interventions (CCI)
- Associated with Minneapolis Heart Institute Foundation®, an independent, nonprofit cardiovascular research institute for 36 years, supported by physicians and the community
- First in Minnesota to use Epic EMR system beginning in 2006
- Deliver more than 10,000 hours annually of professional education worldwide
- Pioneered Cardiology Curbside®, a novel program that allows for physicians from any institution to obtain real-time guidance from an MHI® cardiologist on the care of a patient
- Pioneered MHI® Teleheart®, a telemedicine program developed through the Outreach Network, a system that allows MHI® physicians to provide local world-class care in over 36 communities throughout Minnesota and western Wisconsin
- Developed MHI® Healthcare Delivery Innovation (HDI) Center, a cardiovascular model to focus on improving quality, reducing costs, decreasing care variation, and improving care coordination across the continuum
- As part of the Allina Health System, MHI® physicians participate in over 6 million patient encounters every year

“Over the past 36 years, Minneapolis Heart Institute® physicians have developed a true culture of excellence and we are positioned better than ever to lead the nation in cardiovascular care, innovative care delivery, and research."

William Katsiyiannis, MD, MS, FACC, FHRS
President and Chairman of Cardiology
Minneapolis Heart Institute®