

Offering Experiential Learning & Collaboration

Cardiovascular Learning and Innovation Center



Creating a world without heart and vascular disease

Who We Are

The Minneapolis Heart Institute Foundation® (MHIF) is an independent, nonprofit cardiovascular research organization. We conduct high-quality clinical research into all facets of heart and vascular disease, and we disseminate our findings throughout the world to change the way cardiovascular disease is prevented, diagnosed and treated.

What is the Cardiovascular Learning and Innovation Center

The Cardiovascular Learning and Innovation Center is a collaboration managed by MHIF with world-renowned cardiovascular physicians from the Minneapolis Heart Institute® at Abbott Northwestern Hospital. Faculty members are dedicated to the experiential transfer of knowledge through educational programs, seminars and consultations.



Our Mission

To foster the growth, development and global dissemination of new ideas through learning experiences.

LEARN | CONNECT | SUCCEED

Our Programs

Our consulting, education and training programs are tailored to specific needs with non-disclosure agreements in place when requested.

For some programs, the Cardiovascular Learning and Innovation Center will waive all intellectual property, publication and royalty rights associated with the activity. For others, such as development agreements, contracts are negotiated on a project-specific basis.

All proceeds received are allocated directly to support the Cardiovascular Learning and Innovation Center and MHIF research and education programs.

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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Our Programs

1

Physician Proctorships

Physician shadowing immersion program:

Use this service to better understand a day-in-the-life of a physician and staff in their area of clinical expertise. Proctorships enable observers to view live techniques that may not conventionally be taught in a classroom setting. Q & A sessions at the end of the day allow observers to discuss their observations with their physician proctor.

- Custom selection of medical specialty and procedures of interest
- Learn about specific patient interactions and procedures
- Independent Q & A time with shadowed physician

2

Focused Clinical Consultation

Consult with physician or physician team:

Use this service to assess the unbiased clinical utility of your ideas. 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)

3

Course Modules

Onsite cardiovascular courses:

Use this service to register for courses taught by our world-class physicians. All course curriculum is developed by physicians and taught by physicians so you get a blended combination of medical knowledge and experience in each course.

- Single course fee, up to 15 attendees
- Customize course modules for class preferences
- On-site/off-site course instruction available
- CME's available

4

Phone Consultation

Scheduled phone consult:

Use this service for rapid clinical assessment of your ideas. Innovation is a continuous process that requires the ability to quickly assess the clinical utility of novel ideas. Understanding the clinical feasibility of your idea is paramount in the transformation of your idea into the concept feasibility phase.

- Up to 1-hour phone consult with selected physician
- Contact time scheduled in advance

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

Your biodesign cardiovascular clinical consulting and education team

Transform your ideas with our world-class cardiovascular experts

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Imaging Consultation

Consult with an imaging physician:

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. Compared to conventional standard textbook reading and drawings, this consultation provides the opportunity to discuss your specific needs, challenges and questions using an engaging framework to facilitate dialog and collaboration based on our experience in advanced cardiac imaging.

7

Data Solutions *(coming soon!)*

Access to data and analysis to support your research:

Queries through an extensive patient record database can be made through an MHI® principal investigator to answer questions you have about your desired patient population subject, such as heart patient demographics, therapeutic outcomes, continuum of care, and other patient research information of interest. The data will be analyzed internally and a report will be generated to fulfill your research objectives.

Visit mplsheart.org/CLIC for our scheduled events, including: seminars, workshops, Lunch-n-Learns and more.

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Custom Case Review

Custom case tutorials on specific disease states:

Use this service to register for case reviews provided by our world-class physicians. Pre-recorded cases covering selected surgical procedures such as transcatheter valve replacements, open heart surgery, bypass surgery, etc., are provided with the physician who performed the procedure. Q & A sessions allow participants to discuss their case observations with the case review physician.

- Case review consultation with physician using selected imaging media: MRI, CT, Echo
- 1-hour Q & A with case physician



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