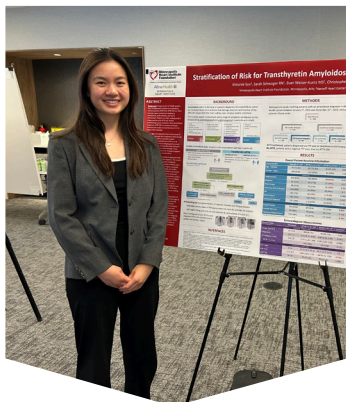
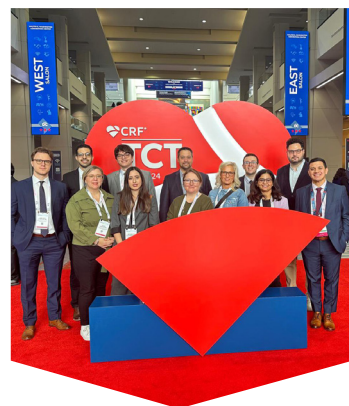
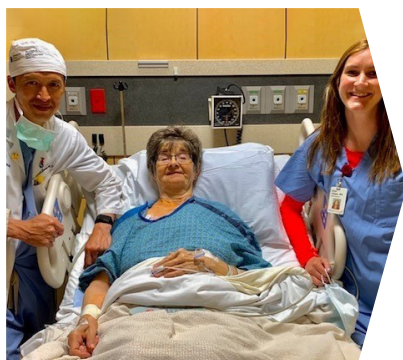


INNOVATIVE CARDIOVASCULAR RESEARCH AND EDUCATION

Advancing Care for Patients Around the World



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Dear Friends,

2024 was a phenomenal year at the Minneapolis Heart Institute Foundation® (MHIF)! It was full of milestones that move us toward realizing our vision of a world without heart and vascular disease. Our DNA guides us to be relentless in the pursuit of groundbreaking research and meaningful education, with an unwavering spirit of innovation across all that we do. We will share that spirit as we summarize our accomplishments in this report.

To start, MHIF continued to be at the forefront of first-in-human studies, pioneering therapies for complex cardiovascular conditions. From the groundbreaking study of a new lead for implantable cardioverter defibrillator (ICD) technology to innovative therapies targeting heart failure prevention and statin tolerance, our research team remained unyielding in the drive to continually deliver better outcomes.

In 2024 we celebrated landmark achievements that bring new options to patients. One example is the U.S. Food and Drug Administration (FDA) approval of the TriClip™, a first-of-its-kind technology for patients living with the debilitating effects of a leaky tricuspid valve. MHIF was the top-enrolling site in the pivotal trial, and we made history as the first in the world to provide this life-changing therapy to patients when the research first began.

Patients are at the core of everything we do—the 2,200+ individuals participating in active studies and the thousands more who place their trust in our research. Their courage and hope fuel our work and fill our hearts every single day.

Our commitment to education extended far beyond the walls of our organization. We hosted the country's first physician training courses in CT-guided Percutaneous Coronary Intervention (PCI) and were proud to initiate this ripple effect of innovative coronary disease treatment that will benefit patients worldwide.

We were honored to be recognized by the Cardiovascular Research Foundation as one of the 2024 Scientific Excellence Top 10—a testament to the incredible passion, resilience, and brilliance of the MHIF research community.

We enter the year ahead with renewed energy and vision for cardiovascular innovation, improving lives through research, and sharing our knowledge with the world through education. Thank you for standing with us in our mission—to improve cardiovascular health through innovative research and education. Your belief in our work is the heartbeat behind every breakthrough.

With heartfelt gratitude,



Kristine Fortman, PhD
CEO, Minneapolis Heart Institute Foundation



Scott Sharkey, MD
President and Chief Medical Officer, Minneapolis Heart Institute Foundation



Thom Gunderson
Chairman of the Board, Minneapolis Heart Institute Foundation



Kristine Fortman, PhD



Scott Sharkey, MD



Thom Gunderson

Advancing Care and Outcomes for Patients Around the World



11,000+ hours
of professional and
community education
each year reaching
4,000+ attendees

70,000+ downloads
by physicians
worldwide reflect the
influence of MHIF's
suite of digital apps,
which provide expert
insights on heart valve
and coronary artery
disease.

**245 podium
presentations** and
invited talks

**15 media
presentations**

**5,500+ community
members celebrated**
the impact of
lifesaving research
at MHIF's Heart360
Concert for World-
Class Heart Research
with Brad Paisley
at the Armory in
Minneapolis

**3,000+ visits with
patients** who have
hope and options
through research

**350+ new patients
enrolled** in research;
220+ active studies
with 2200+ patients
at any given time

270 publications in
leading, peer-reviewed
journals

**90+ posters and
abstracts** accepted
to national and
international
conferences

**8 MHIF International
Scholars** contributed
to advancing research;
these scholars are
practicing medical
doctors from around
the world who come
to MHIF to partner
with leading MHI
physicians in research

To learn more, please visit mplsheart.org



Research

Minneapolis Heart Institute Foundation® (MHIF) leads innovative cardiovascular research to improve care and outcomes for patients around the world.



2024 Research Highlights

The Minneapolis Heart Institute Foundation® (MHIF) leads innovative cardiovascular research and education to benefit individuals and communities around the world. Through this lifesaving work, we seek to improve outcomes for all patients, including how they receive care and the options that exist to manage or cure all kinds of heart conditions. We evaluate thousands of patients each year for eligibility in clinical trials, and many of them find hope with a treatment that is only available through research.

The following are highlights achieved across key areas of research in 2024:

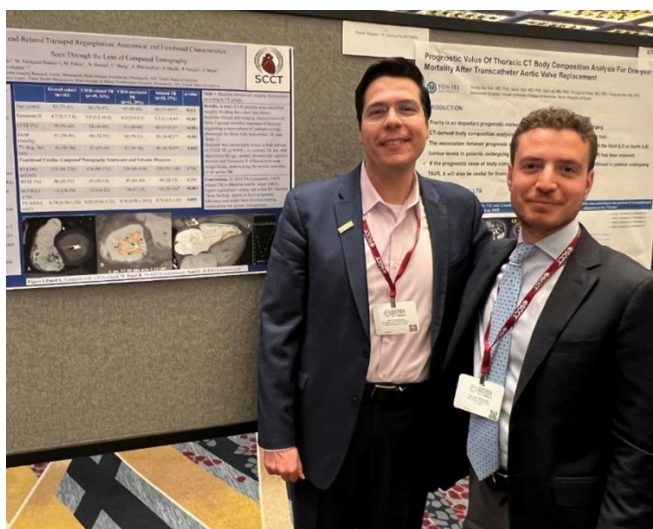
Cardiovascular Imaging and Core Lab

The MHIF Cardiovascular Imaging Research Center and Core Lab continues to build and reinforce its reputation for quality, personalized care with a depth of expertise across multi-modalities of advanced cardiac imaging, including cardiac magnetic resonance (CMR) imaging, computerized tomography (CT) imaging and echocardiography. State-of-the-art imaging provides physicians with better information to consider many more treatments – from interventions to medications – across all areas of cardiology.

2024 Highlights

- Shared MHIF research with physicians around the world through 30 peer-reviewed publications and 60 international presentations.
- Dr. João Cavalcante presented the Triluminate Pivotal Trial Imaging Sub-study results to the FDA Advisory Panel. This novel imaging sub-study used advanced cardiac imaging to characterize the right side of the heart and demonstrated physiological changes that correlated with quality-of-life improvements that were observed in the clinical trial. The imaging sub-study data bolstered the overall trial results to support FDA approval of the TriClip (Abbott) transcatheter procedure to treat tricuspid regurgitation. The Imaging Sub-study results were then published in the *Journal of the American College of Cardiology*, a premier peer-reviewed publication.
- The Core Lab more than doubled its number of active studies, with 12 industry- and NIH-funded projects underway.
- Thanks to generous funding from PIE Medical Imaging and Greg & Lisa Smith, among others, the MHIF International Scholar Program engages practicing MDs as full-time research scholars to learn from world-renowned MHIF experts, while helping to accelerate groundbreaking cardiovascular imaging research.

- Dr. Davide Margonato, an echocardiologist from Milan, Italy, completed two years as an MHIF Imaging Research Scholar. His research highlights include an oral presentation at the Innovation Session at the Transcatheter Cardiovascular Therapeutics (TCT) conference describing a unique imaging biomarker for patients with tricuspid regurgitation. Dr. Margonato was also selected for an Early Career Leadership Award for the Cardiovascular Research Technologies Conference in March 2025.
- The center also welcomed a new MHIF Imaging Research International Scholar, Dr. Takahiro Nishihara from Okayama, Japan. Dr. Nishihara brings unique expertise as a practicing interventional cardiologist who also utilizes advanced cardiac imaging. His MHIF research will focus on imaging biomarkers and exploring the use of cardiac MRI to better understand functional mitral regurgitation.



Dr. João Cavalcante and Dr. Davide Margonato.

Cardiovascular Prevention

As one of the nation's premier cardiovascular research institutions, MHIF plays a unique role in accelerating the prevention and treatment of cardiovascular disease both nationally and internationally. The MHIF Nolan Family Center for Cardiovascular Health, led by Dr. Michael Miedema, aims to shift the focus from treating heart disease to helping people achieve optimal heart health. This work takes a diverse approach to cardiovascular disease prevention across three key pillars of research, education and leadership.

2024 Highlights

- Shared MHIF research with physicians around the world through 5 abstracts, 10 published manuscripts and 2 invited talks.
- Anchoring the Center's education mission, the team created a robust library of patient/consumer learning resources. The collection includes 7 videos on contemporary topics, 2 popular booklets on heart-healthy eating along with a digital recipe collection, and a booklet about cardiovascular risk management.
- The Sixth Annual Prevention Symposium, featuring Elizabeth Tuohy, MD; Ambareesh Bajpai, MD; Michael Miedema, MD; Felipe Martignoni, MD; Carolyn Wambach, PharmD and Susan White, RDN assembled more than 130 physicians, advanced practice providers, and broader healthcare team members to learn about the latest updates in cardiovascular prevention and care guidelines. Education topics included GLP-1 medications, lipid management including Lipoprotein (a), and the impact of marijuana on heart health.
- The center held 2 special lectures honoring Dr. Kevin Graham, former president of the Minneapolis Heart Institute, and his significant contributions to cardiovascular health. Dr. Martha Gulati presented "Women and Cardiovascular Disease: Is There Really a Sex Difference?" while Dr. Amit Khera presented "Familial Hypercholesterolemia: New Era in Diagnosis and Treatment."
- Emerging studies at the center include research on cutting-edge imaging technology, including artificial intelligence, and novel lipid-lowering therapies.
- The center's third fellow, Dr. Felipe Martignoni, is conducting research around a Lipoprotein (a) preventative medication used in STEMI patients and dietary factors associated with coronary plaque



development. Through the fellowship program, the Nolan Center is committed to training the next generation of physician leaders in cardiovascular prevention.

Coronary Artery Disease

Coronary Artery Disease (CAD) is the leading cause of death in the developed world. An internationally recognized research institute, MHIF is integrated with a high-quality, high-volume cardiovascular care center at Abbott Northwestern Hospital. This enables us to study and offer cutting-edge treatment to a large number of patients with CAD. Led by Dr. Emmanouil Brilakis, the MHIF Center for Coronary Artery Disease works to decrease the burden of CAD through research, innovation and education.

2024 Highlights

- Shared learnings from MHIF research with physicians around the world through:
 - > 131+ textbook chapters and published manuscripts in leading cardiovascular journals
 - > 51 presentations and invited talks
 - > 1 live Visible Heart Lab case
- PROGRESS Research – Through a series of registries, the center is exploring a number of areas related to CAD:
 - > PROGRESS-CTO, an ongoing, contemporary, multi-center global registry of more than 15,000 chronic total occlusion percutaneous coronary interventions (CTO-PCIs). MHIF is the coordinating site, and Dr. Brilakis is the principal investigator. This work is providing novel insights into the most complex type of CTO-PCIs through rigorous study of techniques and outcomes across a varied group of operators and medical practices.
 - > PROGRESS-Complications, a registry designed to study complications during cardiac catheterization.

- > PROGRESS-Cath Registries and Microvascular Disease/Coronary Physiology, a registry designed to study microvascular disease and coronary physiology.
- > PROGRESS-Bifurcation examines current strategies for treating bifurcation (branching) coronary artery lesions, determines the impact of implementation of new techniques and assesses their effect on angiographic and clinical outcomes.
- > REBIRTH study – This randomized prospective trial compares radial (wrist) artery access to state-of-the-art femoral (groin) artery access for cardiac catheterization and PCI procedures.
- MHIF continued efforts around a digital application called PCI, providing collaborative research efforts and learnings about treatment options and outcomes to guide the best clinical care for cases involving chronic total occlusions (CTOs) – the most severe, total blockages. A second app focused on CTO blockages is also under development. Made possible with funding from the Joseph F. and Mary M. Fleischhacker Family Foundation, the MHIF suite of apps have earned more than 70,000 downloads from around the world.
- Two website manuals maintained by MHIF feature more than 400 online patient case procedures to help educate cardiologists worldwide on new and innovative treatments.
- The Frank J. and Eleanor A. Maslowski Complex High Risk Indicated Percutaneous Coronary Interventions (CHIP) – Chronic Total Occlusion (CTO) Fellowship provides advanced clinical training to interventional cardiologists in CTO and complex, high-risk coronary interventions. The fellowship was established to help solve for the shortage of interventional cardiologists trained in treating complex coronary artery disease.



CHIP-CTO Fellows Drs. Ahmed Al-Ogaili, MD; Salman Allana, MD; Sandeep Jalli, MD

Health Quality and Outcomes

- **Cardiovascular Quality Improvement and Care Innovation Consortium (CV-QUIC)** is a national collaborative of clinicians and health systems led by Dr. Steve Bradley and focused on rapidly improving cardiovascular care by developing and spreading better ways to deliver care across hospitals and clinics. CV-QUIC has grown into a vibrant network of clinicians across the country—including Allina Health MHI, Stanford, Emory, Atrium Health and others—who meet regularly to share lessons from their own institutions, collaborate on multicenter projects and support each other in navigating challenges like data quality, staffing and reimbursement. CV-QUIC members have led projects on: reducing hospital readmissions by improving follow-up care, optimizing heart failure treatment in hospital and outpatient settings, improving documentation to better reflect patient complexity and support quality metrics, and streamlining outpatient care, including new models for managing palpitations and lipid disorders using team-based approaches with pharmacists and primary care.
- The **National Cardiovascular Data Registry (NCDR)** is the American College of Cardiology's (ACC) flagship program for improving heart care through real-world data. Dr. Bradley completed his three-year term as Chair of NCDR Oversight Committee in March 2025.
- The **CardioHealth Alliance** is a collaborative network of clinicians, researchers, health systems and life science partners working together to improve care for people with cardiovascular, kidney and metabolic diseases. The Alliance is co-led by Dr. Adrian Hernandez (Duke Clinical Research Institute) and Dr. Javed Butler (Baylor Scott & White Research Institute), and includes partners like Stanford, Novartis and the American Heart Association. Dr. Steve Bradley serves on the executive committee and MHIF participated in the REVEAL Study providing real-world insights into cholesterol management and partnered with the Prevention Science Center to participate in the Test 2 Treat Trial of implementation strategies to improve lipid management for patients hospitalized with coronary disease.

Heart Rhythm

The MHIF Joseph F. Novogratz Family Heart Rhythm Center, under the leadership of Dr. Jay Sengupta, is at the forefront of heart rhythm disorder research and treatment. Focusing on conditions such as atrial fibrillation, sudden cardiac arrest, and medical devices like pacemakers and implantable cardiac defibrillators (ICDs), the center is made possible by the generous contribution from the Novogratz family. In 2024, the center advanced its vision of enabling patients to lead longer, healthier lives by leveraging genetic research and personalized medicine, enhancing the safety and effectiveness of implantable devices, advancing ablation techniques and driving innovation in heart rhythm disorder treatment worldwide.

2024 Highlights

- Sharing learnings from MHIF research with physicians around the world through:
 - > 7 manuscripts in leading cardiovascular journals
 - > 17 abstracts and 10 presentations at prestigious conferences, including the Heart Rhythm Society, American College of Cardiology and Cardiovascular Innovations
- Dr. Jay Sengupta, MD, director of the Joseph F. Novogratz Family Heart Rhythm Center at MHIF, successfully performed Abbott Northwestern Hospital's first procedure to treat cardiac arrhythmia using the newly FDA-approved Affera™ Mapping and Ablation System with the Sphere-9™ Catheter from Medtronic. This procedure was not only a first for the hospital, but also for Minnesota and the Upper Midwest. The novel treatment integrates precise mapping technology with innovative ablation capabilities to enhance the effectiveness of cardiac ablation procedures and ultimately improve patient quality of life.



Dr. Jay Sengupta and team were among the first to use a newly approved ablation system in the U.S.



Dr. John Zakaib and team were the first to enroll a patient in the LEADR study for a new ablation technology.

- MHIF was the first research site to successfully complete enrollment for Medtronic's pivotal LEADR LBBAP clinical trial globally. This study investigates the innovative, small-diameter OmniaSecure™ lead when implanted in the left bundle branch area and has the potential to shape future care standards in cardiac resynchronization.
- The Joseph F. Novogratz Family Heart Rhythm Center welcomed two International Scholars from Egypt in 2024. This robust team of dedicated physicians now includes Ali Bahah, MD; Mariam Desouki, MD; and Kerollos Abdelsayed, MD, all who came to MHIF to support research and bring a global perspective. These scholars learn from MHIF expertise and physician mentors during the two-year program, after which they will return to continue their work as practicing physicians in their home country.
- MHIF's annual awareness event drew nearly 100 participants to help educate the community about atrial fibrillation, a common heart rhythm disorder. The 2024 event was recorded to amplify its impact with more than 225 additional views.
- The annual Riebe Run is a community 5K event hosted by MHIF to honor Greg Riebe who lost his life to a genetic cardiovascular condition that affects heart rhythm. The 2024 event raised awareness about sudden cardiac death and more than \$10,000 to support heart rhythm research.
- Dr. Daniel Melby, primary investigator, launched a new multi-center hybrid study focused on atrial fibrillation.

Heart Valve Disease and Cardiac Surgery

The MHIF Valve Science Center is using research and education to provide life-saving solutions to the preventable health crisis of heart valve disease. MHIF has a multi-disciplinary team of globally recognized cardiovascular experts, including interventionalists, surgeons and imagers who are leaders in their fields. Together, they lead research to advance care and outcomes for all patients regardless of where they are in their journey to take care of their heart valve health, making an outstanding impact in valve disease research, education, and innovation.

2024 Highlights

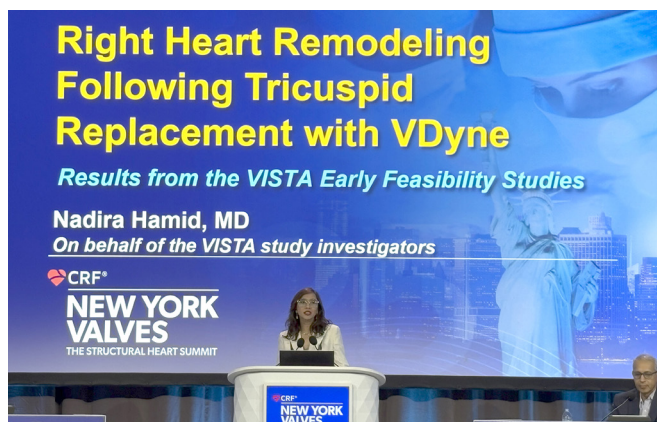
- Sharing learnings from MHIF research through:
 - > 121 presentations, posters and abstracts at national and international conferences
 - > 116 clinical publications in leading cardiovascular journals
- The MHIF Valve Science Center team received a top industry honor, being named one of the Cardiovascular Research Foundation's (CRF) Scientific Excellence Top 10 (SET-10). This annual global ranking recognizes academic and medical institutions making groundbreaking research contributions to interventional cardiovascular medicine. It also reflects the exceptional quality of the research accepted for presentation.



- The team continues to promote education through several popular apps created by Dr. Vinayak Bapat. The most recent app is the Redo-TAV app launched in April. This app offers systematic guidance on assessing the suitability of transcatheter aortic valves for redo procedures. It provides comprehensive CT analysis and insight for the surgery. With nearly 6,000 downloads, the app has been touted for impressive engagement metrics that rival those typically seen from social media apps. This app is

part of a suite of physician apps that were made possible through funding from the Joseph F. and Mary M. Fleischhacker Family Foundation.

- The Valve Science Center was privileged to welcome several international scholars, including Atsushi Akada, MD from Osaka, Japan; Mohammed Abed, MD from Iraq; and Asa Phichaphop, MD from Siriraj Hospital in Bangkok, Thailand—all of whom delivered several presentations around the world. TCTMD highlighted Dr. Phichaphop's algorithm research to predict low-risk patients who might be eligible for same-day discharge after Transcatheter Aortic Valve Replacement.
- MHIF enrolled the first patient in the VISTA U.S. early feasibility study offering a new transcatheter tricuspid valve technology for severe tricuspid valve regurgitation. This first successful procedure for a patient in the United States was completed by a multi-disciplinary team at the MHIF Valve Science Center, including Dr. Paul Sorajja, Dr. Vinayak Bapat and Dr. Nadira Hamid. VDYNE, the manufacturer of the new technology, was previously granted Breakthrough Device Designation from the U.S. Food and Drug Administration (FDA). Tricuspid regurgitation is a condition when the tricuspid valve's flaps (or leaflets) do not close properly. When the right ventricle of the heart pumps blood from the heart to the lungs for re-oxygenation, a leaky tricuspid valve allows blood to flow backwards, leading to shortness of breath, fatigue, abnormal heart performance and an enlarged heart. VDYNE's minimally invasive delivery system delivers a prosthetic valve via a transfemoral catheter to replace the body's "leaky valve".



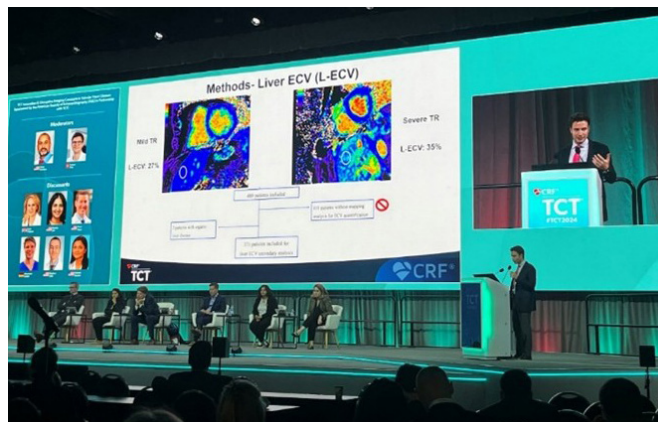
Dr. Nadira Hamid presented data from the study of Vdyne technology at the New York Valves Conference in 2025.

Van Tassel Innovation Center

The Van Tassel Innovation Center and Endowment was established to honor Dr. Robert Van Tassel's spirit of innovation and support visionaries for years to come. The Center provides the resources necessary for independent research to answer critical heart and vascular health questions, share the findings with professionals worldwide and ultimately improve the quality and length of patients' lives.

2024 Highlights

- Overall MHIF-designed (physician-initiated) research highlights:
 - > 272 manuscripts published
 - > 79 abstracts and 174 podium presentations and moderated sessions at national and international conferences
- As the Inaugural Innovation Chair, Dr. João Cavalcante participated in 44 presentations, including 5 Grand Rounds lectures at 5 external institutions. Greg and Lisa Smith are making significant heart failure research projects possible at MHIF. The imaging and heart failure projects, under Dr. Cavalcante's leadership, will likely change the way the condition is managed in the ever growing population of patients.
- Dr. Davide Margonato is an interventional echocardiographer, who aspired to work with Dr. João Cavalcante and the MHIF Cardiovascular Imaging Research Center. He has 2 first-author papers already accepted, 5 more under peer review, and a forthcoming book chapter in the Cardiac CT Companion to Braunwald's Heart Disease. He earned the "Early Career Leadership Award" at the CRT 2025 Congress in Washington, D.C., and is an accomplished speaker at prestigious conferences nationally and internationally.



Dr. Davide Margonato presenting on TCT Innovation Main Stage.

- MHIF research pioneered the use of a novel imaging biomarker called Liver Extracellular Volume, which was identified as a powerful tool for assessing risk and guiding treatment decisions in patients with chronic tricuspid regurgitation. By leveraging advanced cardiac magnetic resonance imaging, MHIF identified a way to personalize care for those at risk of heart failure. This work was recently highlighted by Dr. Margonato's oral presentation on the prestigious TCT Innovation Main Stage, underscoring its potential to transform patient care.
- MHIF is leading multicenter multimodality imaging studies to enhance early diagnosis, referral and treatment of aortic regurgitation, another critical condition linked to heart failure. Dr. Cavalcante's globally recognized expertise in advanced cardiac imaging resulted in top-tier publications, cementing our position at the forefront of this field.
- The team is exploring the role of cardiac CT in evaluating tricuspid regurgitation caused by intracardiac device leads, a growing issue as more patients rely on these devices. This research aims to better understand how these leads impact heart function, ultimately improving outcomes for those with heart failure.

Women's Heart Health

The MHIF Penny Anderson Women's Cardiovascular Center focuses on advancing the understanding of heart and vascular disease in women, how to prevent it and optimize patient care.

2024 Highlights:

- Shared learnings from MHIF research through 8 podium presentations and 6 manuscripts, abstracts and posters at national and international conferences.
- Supported 7 clinical trials focused on women's heart outcomes.
- Published original research focused on the role of a Cardio-Obstetrics program (CVOB), a collaboration between cardiologists at the Allina Health Minneapolis Heart Institute® and Maternal Fetal Medicine specialists. The CVOB program delivers specialized care for patients with a preexisting cardiovascular condition or those at high risk for cardiovascular complications during and/or after pregnancy. A multidisciplinary care team provides preconception counseling, risk stratification, prenatal care, development of a collaborative individualized pregnancy and birth plan, and coordinated postpartum care.

THE JOURNAL OF MATERNAL-FETAL & NEONATAL MEDICINE
2024, VOL. 37, NO. 1, 236/7090
<https://doi.org/10.1080/14767058.2024.2367090>



ORIGINAL ARTICLE

OPEN ACCESS Check for updates

Reach and effectiveness of a non-university cardio-obstetrics program

Retu Saxena^{a,b}, Gretchen Benson^a, Abbey C. Sidebottom^c, Brynn Okeson^d, Joy Hayes^e, Kirsten Shaw^f, Courtney Jordan-Baechler^g and William Wagner^h

^aMinneapolis Heart Institute Foundation, Minneapolis, MN, USA; ^bMinneapolis Heart Institute, Minneapolis, MN, USA; ^cCare Delivery Research, Allina Health, Minneapolis, MN, USA; ^dMinnesota Perinatal Physicians, Allina Health, Minneapolis, MN, USA

ABSTRACT

Background: Current guidelines recommend multidisciplinary cardiovascular obstetric programs (CVOB) to manage complex pregnant patients with cardiovascular disease. Minimal evaluation of these programs exists, with most of these programs offered at university-based centers.

Methods: A cohort of 113 patients managed by a CVOB team at a non-university health system (2018–2019) were compared to 338 patients seen by cardiology prior to the program (2016–2017). CVOB patients were matched with comparison patients (controls) on modified World Health Organization (mWHO) category classification, yielding a cohort of 102 CVOB and 102 controls.

Results: CVOB patients were more ethnically diverse and cardiovascular risk was higher compared to controls based on mWHOz-II-III (57% vs 17%) and. After matching, CVOB patients had more cardiology tests during pregnancy (median of 8 tests vs 5, $p < .001$) and were more likely to receive telemetry care (32% vs 19%, $p = .025$). The median number of perinatology visits was significantly higher in the CVOB group (8 vs 2, $p < .001$). Length of stay was a half day longer for vaginal delivery patients in the CVOB group (median 2.66 vs 2.13, $p = .006$).

Conclusion: Implementation of a CVOB program resulted in a more diverse patient population than previously referred to cardiology. The CVOB program participants also experienced a higher level of care in terms of increased cardiovascular testing, monitoring, care from specialists, and appropriate use of medications during pregnancy.

ARTICLE HISTORY
Received 28 March 2024
Revised 3 June 2024
Accepted 6 June 2024

KEYWORDS
Cardio-obstetrics;
cardiovascular risk;
multidisciplinary
coordinated care;
maternal morbidity;
cardiology; maternal fetal
medicine



Dr. Liz Tuohy, registered dietician Susan White, Dr. Tom Knicklebine and MHIF CEO Kristine Fortman at Hope, Health and Humor women's event.

- In a blockbuster crossover between medicine and movies, Dr. Kirsten Shaw took a deep dive into Hollywood's portrayal of heart attacks. Lead study author, Dr. Shaw, is a cardiology fellow at Allina Health Minneapolis Heart Institute and supports research through MHIF. Dr. Shaw's study, "[Portrayal of Acute Myocardial Infarction in Popular Film: A Review of Gender, Race, and Ethnicity](#)," published in the *Journal of the American Heart Association*, is like the ultimate director's cut—except instead of action sequences, the focus is on how gender, race, and ethnicity get cast in the role of acute myocardial infarctions (heart attacks). Spoiler alert: Hollywood could use a better script to improve public understanding of the heart attack reality.
- MHIF joined forces with NICE Healthcare to challenge current care delivery services by offering both virtual and in-home care to women who did not receive adequate follow-up for gestational diabetes or gestational hypertensive disorders postpartum. This pilot study assessed whether an extension of care can help women overcome barriers related to access, transportation, traditional clinic hours and childcare limitations among patients experiencing the highest care disparities. Blood glucose and blood pressure changes were measured on postpartum patients to assess future cardiovascular risk.



Education

Minneapolis Heart Institute Foundation® (MHIF) is dedicated to promoting education to improve patient care. Our lifesaving research has been published in leading heart journals and included in presentations at national and international conferences. We regularly convene events to share these learnings with healthcare professionals and help raise awareness in the community. MHIF is committed to educating the next generation of healthcare professionals through its International Scholar Program, Research Fellowships and Clinical Research Internships.





Brachman Center for Advanced Cardiovascular Learning and Education Established to Accelerate Medical Education and Training of Next Generation of Healthcare Providers

The Minneapolis Heart Institute Foundation® (MHIF) received a \$5 million transformational gift from Armand and Mary Brachman to accelerate

medical education programs with global reach, including training for the next generation of healthcare providers. The gift established the Armand and Mary Brachman Center for Advanced Cardiovascular Learning and Education, continuing a core commitment of the MHIF mission to share learnings from research around the world and inspire the rising generation of medical providers trained in world-class cardiovascular care.

“Our gift to the Minneapolis Heart Institute Foundation reflects our intention to provide philanthropic funding to organizations that make a measurable and sustainable difference in people’s lives,” said Mary Brachman. “We believe in the power of education to transform lives and improve outcomes. By supporting the MHIF education center, we are investing in the future of cardiovascular care and empowering the next wave of healthcare professionals and researchers to make a lasting impact on heart health worldwide.”

“Mary and I are honored to be in a position where we can provide this gift to the Minneapolis Heart Institute Foundation,” said Armand Brachman. “My hope for the gift is that the Foundation continues to grow and sustain the level of excellence they currently embrace with their commitment to education, and as a leader in cardiovascular research.”

“This extraordinary gift will allow us to expand our education initiatives, reach even more healthcare providers as well as train the younger generation in the innovative field of heart and vascular care,” said Scott Sharkey, MD, MHIF president and chief medical officer. “We are deeply grateful for the Brachman’s vision and generosity in helping us shape the future of cardiovascular care through their thoughtful support of education.”

The Brachman Center for Advanced Cardiovascular Learning and Education embodies MHIF’s mission to improve cardiovascular health through research and education.



- **Innovative Medical Education:** MHIF physician researchers share their renowned expertise with physicians around the world. This level of physician-to-physician education accelerates the impact of innovation uncovered through research as its reach multiplies with all the physicians who can learn from cutting-edge research.
- **Pioneering New Therapies:** MHIF physicians have renowned expertise and play a role in partnering with other leaders on entrepreneurial cardiovascular advancements. Their expertise makes them ideal partners for medical device companies and supports the device-to-commercial-use model, sharing insights from hands-on experience with patients and training opportunities from extensive use in research for new devices. These efforts are critical to the introduction of new cardiovascular technologies.
- **Summer Clinical Research Internship Program:** Interns work alongside leading MHIF researchers and clinicians, gaining direct exposure to clinical research, data analysis and patient-centered care. This program is designed to inspire the next generation of healthcare professionals and researchers by providing real-world experience and mentorship, and leads to opportunities to publish and present on their research at leading cardiovascular conferences.

“This transformational gift honors the vital role of professional education in advancing cardiovascular care around the world,” said Kristine Fortman, PhD, MHIF chief executive officer. “We are grateful to the Brachmans for the faith they put in MHIF and the shared vision they have for this critical work.”

International Scholar Program

In 2024, MHIF hosted 14 international scholars. MHIF is committed to training the next generation of global healthcare leaders in heart and vascular health. Our scholars play a key role in advancing groundbreaking physician-led research and sharing valuable insights worldwide. Since 2017, our International Scholar program has welcomed practicing physicians from around the globe for one- or two-year periods, offering them the opportunity to collaborate directly with Allina Health Minneapolis Heart Institute® physicians and contribute to MHIF's innovative cardiovascular research.

These research scholars bring diverse perspectives and expertise to our team. Under the guidance of a physician mentor, they help design and conduct a wide range of clinical studies. Additionally, they support MHIF research teams in disseminating findings by publishing in peer-reviewed journals and submitting abstracts and case studies for presentation at international scientific conferences. Their efforts help elevate MHIF's research on a global scale. To date, the International Scholar program has welcomed scholars from China, Japan, Brazil, Hungary, Turkey, Iraq, Thailand, Egypt, Italy and Greece.

Nolan Family Center for Cardiovascular Health

Felipe Martignoni – Brazil

Center for Coronary Artery Disease

Michaela Alexandrou – Greece

Dimitrios Strepkos – Greece

Deniz Mutlu – Turkey

Pedro Carvalho – Brazil

Athanasios (Thanasis) Rempakos – Greece

Valve Science Center

Mohammed Abed – Iraq

Atsushi Okada – Japan

Asa Phichaphop – Thailand

Joseph F. Novogratz Family Heart Rhythm Center

Mariam Desouki – Egypt

Ali Bahbah – Egypt

Kerollos Abdelsayed – Egypt

Cardiovascular Imaging Research Center

Davide Margonato – Italy

Takahiro Nishihara – Japan

2024 Stats

- 46 abstracts
- 52 manuscripts
- 45 conference presentations

Totaling 143 unique publications/presentations

“The International Scholar program has been instrumental in the success of MHIF’s Center for Coronary Artery Disease. They bring a wealth of knowledge, but also tremendous drive and motivation that is critical in moving often challenging projects forward. The research work of the international scholars has been published in the top interventional journals and has helped advance the contemporary practice of interventional cardiology.”

— Dr. Emmanouil Brilakis, Chairman,
Center for Coronary Artery Disease



MHIF team members from the Center for Coronary Artery Disease.

Clinical Research Internship

In 2024, 10 interns from around the country contributed to 10 different groundbreaking research projects. Supported by the generous contributions of individual donors, MHIF provides an exceptional and distinctive internship program for undergraduate students who are pre-med or pursuing a career in medicine. This unique educational opportunity pairs interns with a physician mentor who guides them through conducting a research project. In addition to facilitating research, interns have the opportunity to shadow healthcare professionals in a hospital setting, participate in engaging field trips, attend lunch-and-learn sessions and present their research at an open house and poster session. Many interns have the chance to co-author articles published in national scientific journals, and some may even present their work at a national cardiovascular conference.

Stats

Since 2002, 244 research interns have contributed to:

- 223 posters and presentations at national scientific sessions
- 219 publications in peer-reviewed journals

Where are they now?

- 59% are practicing physicians
- 24% are currently in medical school
- 12% are in healthcare related fields
- 5% are in non-healthcare fields



2024 MHIF Clinical Research Interns

“Everything from the lunch and learns to the field trips and observation experiences were well designed for our benefit. I will recommend this program to all my pre-med friends in the future. I hope to return to MHIF in some way during the next few years, as I had such a great time!”

— Ibby Miyanoorwala

“I was excited to come to work every single day, and I can't say that was the case for any other internship I have done. The people's kindness and their dedication to the research is contagious, and I am so happy to have been a part of it for these past few months.”

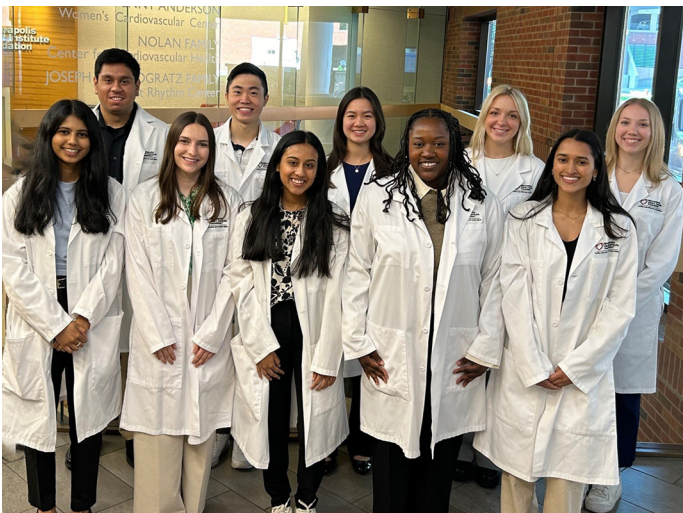
— Melanie Sun

“I absolutely loved every second of this internship. Thank you for such a positive experience.”

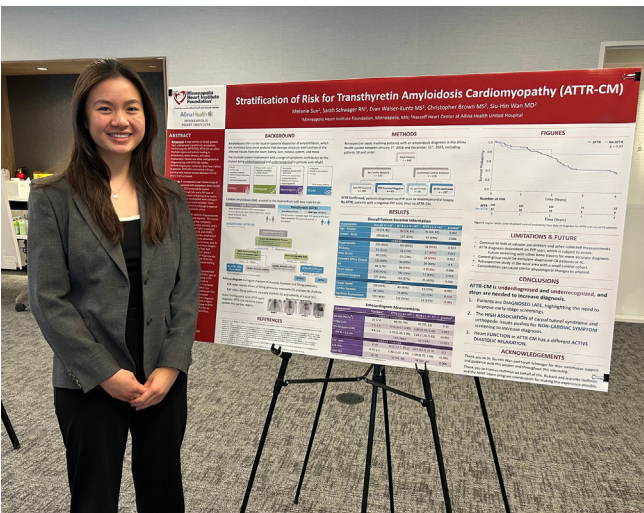
— 2024 intern

2024 Research Project List

Intern	Research Topic
Paige Carlson Lead Intern	Supersaturated Oxygen Therapy (SSO2) to Salvage Myocardium and Improve Outcomes in Late-Presentation Anterior STEMI with Dr. Jay Traverse
Jayne Parry Discovery Intern	Access, Efficacy and Safety of a GLP-1 Cardiology/Pharmacy Integrated Program with Dr. Michael Miedema
Melanie Sun Drs. Richard and Jeanette Hoffman Intern	Stratification of Risk for Transthyretin Amyloid Cardiomyopathy (ATTR-CM) with Dr. Siu-Hin Wan
Misha Bukkasagaram Heart Rhythm Intern	Atrial Lead Outcomes: Septal 3830 vs 5076 with Dr. Matthew Olson
Zachary Chan Cline and Dianne Hickock Intern	Frequency and Outcomes of Stenting Strategies in Coronary Bifurcation Lesions with Dr. Manos Brilakis
Prapthi Jayesh Sirkay Leonardus Loos and Shelley Holzemer Intern	Treatment Outcomes for Patients with Internal Carotid and Vertebral Arteriopathies with Dr. Nedaa Skeik
Rahmah Jingo Dubes Family Intern	Understanding the Peripartum Cardiomyopathy Care-Continuum within the Allina Health System with Dr. Retu Saxena
Ankitha Kumar Leonardus Loos and Shelley Holzemer Intern	Heart Failure Guideline Directed Medical Therapy Utilization at Allina Health with Dr. Mosi Bennett
Hailey Miedema Pete Pierce Intern	Radiolabeled Blood Volume Analysis During Hospitalization for Acute Decompensated Heart Failure and Risk of 30-Day Readmission with Dr. Peter Eckman
Ibby Miyanoorwala Pete Pierce Intern	Clinical CRT Optimization with Dr. Alan Bank



2024 MHIF Clinical Research Intern Cohort



MHIF Summer Clinical Research Intern, Melanie Sun.

Professional Education

Grand Rounds

In 2024, MHIF hosted 32 cardiovascular Grand Rounds sessions featuring 46 unique speakers that reached over 3,200 learners! These accredited educational activities are held every Monday morning throughout the spring and fall and offer physicians and other healthcare providers a valuable opportunity to review and discuss the latest advancements in cardiovascular care. These meetings cover a broad range of topics in cardiovascular medicine, featuring research highlights, diagnostic and treatment best practices and collaborative discussions aimed at enhancing care for patients with cardiovascular disease.

Stats

• 32 Sessions • 3,230 Attendees • 46 Speakers

CT-Guided PCI Course

This physician-led educational conference focused on the use of coronary computed tomography angiography (CT), a non-invasive imaging modality, to guide percutaneous coronary interventions (PCI) with the ultimate goal of improving patient outcomes.

The event was hosted by MHIF's Center for Coronary Artery Disease and led by course directors Drs. Yader Sandoval, Emmanouil Brilakis, João Cavalcante and Carlos Collet, and was the first-of-its-kind in the United States. Attendees included international and national key opinion leaders including interventional cardiologists, cardiac imagers, radiologists, trainees, researchers and industry partners who came to learn about this modern PCI approach. It was a full day and a half filled with lectures, debates and vibrant discussions; hands-on training with different software for pre-procedural planning; and two interactive live cases broadcast from Abbott Northwestern Hospital.

CT-guided PCI uses coronary computed tomography imaging to provide detailed views of coronary arteries, including non-invasive assessments of plaque composition and physiology to allow for pre-procedural planning. MHIF is part of the ongoing P4 randomized trial, aimed at documenting the efficacy of CT-guided PCI, compared to routine intravascular ultrasound (IVUS)-guided PCI.

Details

Date: April 4–5, 2024

Location: MacMillan Center at Abbott Northwestern Hospital

Attendance: 44 attendees from around the world

At the Heart of Cardiovascular Disease Prevention 2024

The aging population, rising prevalence of cardiometabolic diseases and insufficient management of risk factors may contribute to an increased incidence of cardiovascular disease nationwide. *At the Heart of Cardiovascular Disease Prevention 2024* was a professional education event designed to inform physicians, advanced care providers and support staff about current guidelines and expert opinions on the identification and treatment of cardiovascular disease. This included a review on the GLP-1 RA medications, LDL cholesterol guidelines, lipoprotein(a) research and an overview of how marijuana use impacts cardiovascular disease.

Details

Date: Thursday, May 2, 2024 | 5PM–8:30 PM

Location: Brackett's Crossing Country Club | Lakeville, MN

Attendance: 111 Attendees



Professional education events



Live case during CT-Guided PCI Course



CT-Guided PCI Course



At the Heart of Cardiovascular Disease Prevention event

For the Heart of MN: 4TH Annual Cardiovascular Nursing Conference

Care for individuals with cardiovascular disease continues to grow in complexity. In the area of rural healthcare, nurses face additional challenges to staying abreast of best practices. Opportunities for training are limited and travel can be a barrier to accessing high-quality education. The need to address cardiovascular health in rural America is not just a local issue—it has been recognized nationally with the AHA's call to action on rural health. Moreover, while nurses have an important role to play in addressing health in rural settings, they do need comprehensive and specialized training in order to do so. Allina Health Minneapolis Heart Institute® in Baxter, MN, and the Minneapolis Heart Institute Foundation recognized this challenge and collaborated to host this cardiovascular nursing conference.

Details

Date: Friday, October 4, 2024

Location: Gather on 3 at The Woods | Brainerd, MN

Attendance: 79 in-person + 28 remote | 107 total

CT for PCI Course 2.0

Based on the success of the first CT-Guided PCI Course, the Minneapolis Heart Institute Foundation decided to host the CT for PCI Course 2.0. Partnering with the Society for Cardiovascular Angiography & Interventions (SCAI), this conference was another physician-led educational workshop focused on the use of coronary computed tomography angiography, a non-invasive imaging modality, to guide percutaneous coronary interventions (PCI), with the ultimate goal of improving patient outcomes.

Attendance included physicians from all over the United States and abroad, bringing together thought leaders to discuss this innovative approach to PCI procedures. Featuring lectures, discussions, hands-on training and four interactive live cases—this engaging experience left attendees inspired to bring their learnings back to their own hospital systems.

Details

Dates: October 24–25, 2024

Location: MacMillan Center at Abbott Northwestern Hospital

Attendance: 60 attendees

2024 Stats

- Educated 3,552 people
- Delivered over 67 hours of professional education content
- Featured 80 presenters

“At the Minneapolis Heart Institute Foundation, cardiovascular research is foundational to everything we do. By being a part of the latest research, we can explore new therapies to diagnose, treat and prevent cardiovascular disease.”

—David Hurrell, MD | Cardiologist,
Allina Health Minneapolis Heart
Institute®; Chair, Education
Committee, MHIF



Annual Cardiovascular Nursing Conference



Dr. Carlos Collet presenting at the CT for PCI Course 2.0.

Community Education

On the Pulse

In 2024, MHIF brought heart health straight to the people with five dynamic *On the Pulse* sessions that are also recorded and published on the MHIF website—mplsheart.org/events. This free, virtual webinar series delivers cutting-edge cardiovascular insights from top experts at MHIF and the Allina Health Minneapolis Heart Institute®. Covering a wide range of heart health topics, each session stands out with a Q&A segment—giving patients and community members a rare chance to have their questions answered by leading cardiologists and healthcare professionals.

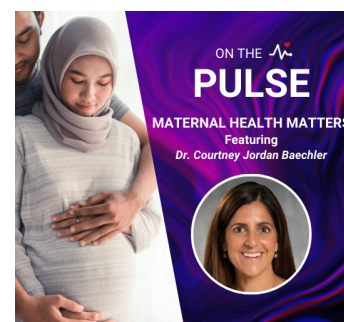
On the Pulse | 5 Myths About Obesity & the New Weight Loss Medications **Dr. Michael Miedema | Wednesday, April 17, 2024**

According to the National Institutes of Health more than 2 in 5 adults (42.4%) have obesity. Prescription weight loss medications, such as GLP-1 agonists, have shown promising results in treating obesity and cardiovascular disease. A recent study found that 89% of surveyed physicians have observed a recent uptick in patients requesting weight-loss medications. Despite significant attention in the media and online, it's important to note that myths still exist regarding this type of medication and obesity.



On the Pulse | Maternal Health Matters: Pregnancy Cardio Tips **Dr. Courtney Jordan Baechler | Wednesday, May 15, 2024**

During pregnancy, the body undergoes significant physiological changes affecting the cardiovascular system. Pregnancy results in increased heart rates, stroke volume, cardiac output, enhanced myocardial contractility and more, all of which can contribute to cardiovascular complications. The National Institutes of Health estimates that up to 68% of pregnancy-related deaths caused by cardiovascular conditions are preventable. Raising awareness about adverse events during pregnancy and implementing prevention and treatment strategies are crucial steps in preventing cardiovascular complications during pregnancy.



On the Pulse | Chilling Insights: Cold Plunges, Hydrotherapy and Cardiovascular Health **Dr. Mario Gössl | Thursday, June 20, 2024**

Cold plunges involve immersing oneself in cold water (50°F or colder) as part of a therapeutic regimen. They are popular amongst athletes, fitness enthusiasts and those pursuing health advantages such as improved circulation, reduced inflammation and enhanced recovery. This practice has surged in popularity due to its perceived ability to invigorate the body and mind. However, it's important to note that cold plunges and hydrotherapy can impact cardiovascular health. This *On the Pulse* session covered the intricacies of cold plunges, their cardiovascular effects, hydrotherapy and more!



On the Pulse | Heart and Hope: Thriving with Heart Failure **Dr. Siu-Hin Wan | Wednesday, November 20, 2024**

According to the U.S. Centers for Disease Control and Prevention, it is estimated that nearly 6.7 million Americans aged 20 years or older have heart failure. Heart failure is a condition that occurs when the heart is incapable of pumping enough blood and oxygen to the body's organs. Symptoms include shortness of breath during daily activities; difficulty breathing when lying down; weight gain with swelling in the legs, ankles, feet or stomach; and generally feeling weak or tired. This diagnosis can seem daunting; however, heart failure does not have to define you. With the right care and mindset, you can still live a fulfilling and joyful life!



On the Pulse | Nourishing Your Heart

Gretchen Benson, RDN, CDCES & Susan White, RDN, LD | Wednesday, December 18, 2024

Eating a heart-healthy diet is an important step in reducing your risk for cardiovascular disease. According to the American Heart Association, “Poor diet quality is strongly associated with elevated risk of cardiovascular disease.” The link between nutrition and cardiovascular disease has long been established, but what constitutes a heart-healthy diet?

This webinar session navigated the often-confusing landscape of nutrition and heart health. In a world overflowing with mixed messages from the media, it can be challenging to discern what truly supports our heart health.

Overall 2024 Stats

- 5 sessions
- 1,733 total registrants



Inspiring Optimism in Heart Valve Patients (Heart Valve Disease Awareness Day)

On Saturday, February 17, 2024, we were joined by 150 community members and patients at Brackett's Crossing Country Club in Lakeville, MN, for an afternoon of valvular heart disease education and awareness. Although heart valve disease affects as many as 11 million Americans, many people have never heard of it. Heart valve disease is estimated to affect 1 in 10 people aged 75 and over, and age is the greatest risk factor. Unfortunately, symptoms are often dismissed as a “normal” part of aging. It's crucial that members of the community and patients are educated to recognize specific risks and symptoms. This event gave an overview of the public health epidemic of heart valve disease, the latest in heart valve disease research and treatments and featured inspiring stories of life after heart valve disease treatment.

Details

Date: Saturday, February 17, 2024

Venue: Brackett's Crossing Country Club | Lakeville, MN

Attendees: 150



Heart Valve Awareness Day community event

Navigating Atrial Fibrillation: Key Insights and Strategies for Better Heart Health

MHIF's Joseph F. Novogratz Family Heart Rhythm Center hosted a free interactive, engaging educational opportunity for individuals impacted by arrhythmias and the general public interested in heart health—with the goal of raising awareness for Atrial Fibrillation (AFib)!

A widespread lack of awareness about AFib leads to delayed diagnosis, poor management and higher health risks. Misconceptions about AFib causes, symptoms and treatments only add to the problem. Many remain unaware of key risk factors like hypertension, obesity and lifestyle choices. Limited resources for those living with AFib further hinder self-care. Our initiative tackles these gaps, equipping individuals with the knowledge to take charge of their heart health, reduce complications and enhance community well-being.

Details

Date: Saturday, October 26, 2024

Venue: The Wilder Foundation | St. Paul, MN

Attendees: 98



Navigating Atrial Fibrillation community event

Philanthropy & Community

Philanthropic investments support the Minneapolis Heart Institute Foundation® (MHIF) mission. We are grateful for the generosity of our community that makes lifesaving cardiovascular research and education possible!



The MHIF Mission is made possible because of community members who believe in supporting lifesaving cardiovascular research and education.

As an independent, nonprofit organization, MHIF's Mission is fulfilled because of the generosity of contributors who want to support groundbreaking research and education. Your gift creates hope for patients through new treatments and care practices to ensure the best outcomes for life-threatening heart and vascular conditions. Your support funds research designed and led by MHIF partners and world-renowned physician researchers from Allina Health Minneapolis Heart Institute®, who bring extensive cardiovascular expertise and constantly advocate for patients by asking, "What can we do better?"

MHIF research occurs in partnership with leading medical companies that have new medicines and

technologies need research to understand their safety and potential to help patients. New options available through research are the only hope for some patients.

MHIF is equally committed to education by sharing key findings from research around the world and raising awareness about heart and vascular conditions with patients and providers. Throughout the year, MHIF also offers internships and fellowships that support our commitment to educating the next generation of healthcare providers.

Every day we work to create a world without heart and vascular disease.

2024 MHIF Highlights



\$15 MILLION in new charitable commitments

\$25.9 MILLION endowment to support long-term investments in research



1,469 DONORS

2,351 CHARITABLE CONTRIBUTIONS made to MHIF



565 HOUSEHOLDS made their first gift to MHIF in 2024

168 GIFTS made in tribute to a loved one, friend or physician/research team



223 GIFTS were matched by the donor's company, helping double their impact!

Patients and Families are at the Heart of Everything We Do

Grateful patients fuel our commitment to work every day to deliver innovative cardiovascular research and education that improves care and outcomes for patients around the world.

Thank you for being a part of the MHIF community. From world-class, life-saving heart research to educating physicians across the globe, you are a critical partner in saving lives and improving patient care. Your philanthropic investment is creating new breakthroughs in cardiology, educating the next generation of physicians and helping curb disparities in treatment.

Each year, MHIF works with physician researchers to bring forward new areas of charitable investments to meet the changing needs in cardiac and vascular care. We welcome the opportunity to share these with our grateful patients in the year ahead and continue to be thankful for your remarkable contributions.

Patients and families shared these notes of gratitude for the hope and treatment they received through MHIF research.

“Thank you so much for your care and attention to my heart issues. Thank you for all that MHIF does.”

“This contribution is made in honor of Dr. Brilakis and his great teams in the treatment and research of heart disease.”

“Keep up the good work!”

2024 Patient Spotlight

Tim is an avid outdoorsman. He enjoys fly fishing, mountain biking, running and more. Tim is also a husband and father, so when he noticed he was getting short of breath after longer workouts, he quickly sought the opinion of a cardiologist. He was diagnosed with hypertrophic cardiomyopathy, a genetic condition where the heart muscle thickens and impacts the heart's function over time. Thanks to medical technology and great care, Tim and his family are enjoying life while managing a genetic heart condition. See Tim's story at mplsheart.org/tim.



If you would like to explore ways to support MHIF or make a memorial or tribute gift, please visit mplsheart.org/giving. You may also call 612-863-7806 or email donorrelations@mhif.org. Thank you!

Heart 360 Concert for Heart Research

Growing a community of people to celebrate the impact of lifesaving heart research and be inspired to take care of their own hearts!

On November 2, 2024, MHIF gathered 5,500+ members of the community to recognize the 360-degree approach that is critical to advancing heart and vascular care—renowned physicians, committed researchers, grateful patients and community!



Award-winning, country music artist Brad Paisley and opening talent Cory Kent performed at the Armory in Minneapolis for a concert affair that included a half-time show focused on the impact of cardiovascular research.

Chris Carr and Company from K102.1 FM emceed the evening and the venue was filled with physician and patient voices, as well as heart health facts and education. The content inspired the community to engage in their own heart health and believe in lifesaving heart research—for them, their families and generations to come!



Heart 360 was supported by leaders in our community, sponsors and industry partners.

Thank you to Great Clips, K102, IDI, Medtronic, Clear Channel Outdoor, Handy Product Company, Lifelink III, Artivion, Abbott, APi Group, Boston Scientific, Cargill Risk Management, Carlson Caspers, Crown Bank, Edwards, Entourage Events Group, Event Lab, Fredrikson & Byron P.A., Thom and Stephanie Gunderson, Sharon Hawkins, Nextern, Plastics International, Prouty Project, Joseph and Tamara Schwartz, Jeff and Renee Steinle, and Valpak.

Heart 360 Presenting Sponsor – Great Clips



Rhoda Olsen, Vice Chair of the Great Clips Board of Directors, is a passionate advocate for heart health and healthy living. Rhoda's family has an extensive history of heart disease, and she appreciates the impact of heart health on individuals and our community. Her dedication to awareness, women's heart health and prevention has led to a deep partnership between Great Clips and Minneapolis Heart Institute Foundation (MHIF).

"Research and education are important to Great Clips. The lack of information around women's health was staggering to learn. In addition to research, the role MHIF plays in educating medical professionals is impressive. If an ER physician attends one seminar on pregnancy and heart issues like spontaneous coronary artery dissection (SCAD), it can change the care they provide to their community forever," said Olsen.

From being at the forefront of women's heart health community engagement efforts to their four years as the Presenting Sponsor of Heart 360, we are grateful for Great Clips' generosity and investment in MHIF's mission.

Rhoda shared, "The Great Clips team wants to have fun while supporting an important community resource! As we look at heart health issues, it's hard to engage people in a meaningful way. Minneapolis Heart Institute Foundation's Concert for Heart Research—Heart 360 is an interesting twist to engage our employees and a unique access point for awareness about heart health issues. And most people take their heart health for granted."



Brad Paisley with Rhoda Olsen at the Heart 360 Concert for Heart Research

"If an ER physician attends one seminar on pregnancy and heart issues like spontaneous coronary artery dissection (SCAD), it can change the care they provide to their community forever"

— Rhoda Olsen, Vice Chair of the Great Clips Board of Directors

Donor Recognition

Thank you to the donors who make the Minneapolis Heart Institute Foundation® (MHIF) mission possible. Your support protects life and transforms patient care through innovative, world-class heart research and education.



Minneapolis Heart Institute Foundation® Founders

The founders of the Minneapolis Heart Institute Foundation® (MHIF) believed that investing in innovative research was essential to improving cardiovascular health in our community, and in 1982 they pooled their resources to create MHIF. Today, we are grateful to these founders, companies and families who continue to support our mission by investing their talent and resources.

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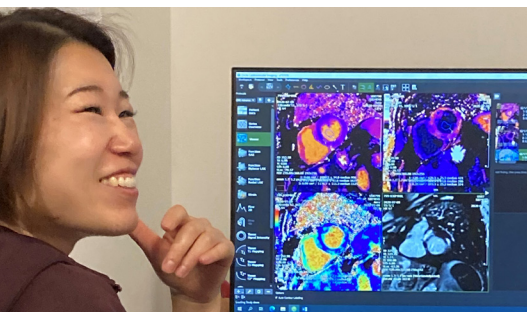
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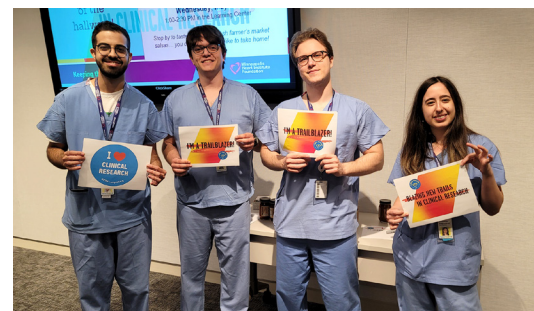
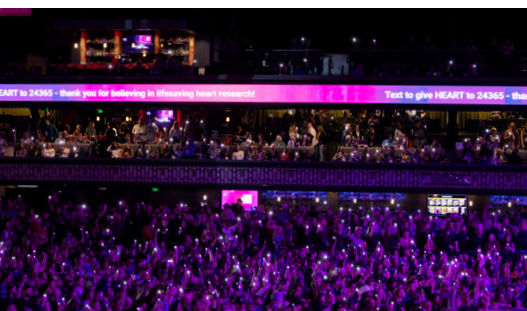
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Timothy Thorpe

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Robert Van Tassel, MD, *Emeritus*

Carmen Volkart, *Treasurer*

Sheldon Wert*, *Emeritus*

Brianna Williamson

* *Noting deceased, prior to date of publication*

Financials

Through the contributions and support of donors around the world, lives are being improved, changed and saved. The Minneapolis Heart Institute Foundation® (MHIF) takes pride in using charitable contributions transparently and effectively.

2024 Statement of Activities

REVENUES

	Percent	Operations	Funds with Time or Purpose Restrictions	Endowments	Total
Contributions	27%	\$5,261,729	\$9,416,437	\$185,717	\$14,863,883
Grants	2%	448,190	386,050	—	834,240
Research Study Revenues	28%	5,423,076	—	—	5,423,076
Investment Gain	4%	668,924	857,580	3,075,824	4,602,328
Net Assets Released from Restrictions	28%	5,461,427	(5,461,427)	—	—
Net Assets Released – Endowment Earnings	5%	981,807	—	(981,807)	—
Other Revenues	6%	1,165,212	—	—	1,165,212
Total Support and Revenues		\$19,410,365	\$5,198,640	\$2,279,734	\$26,888,739

EXPENSES

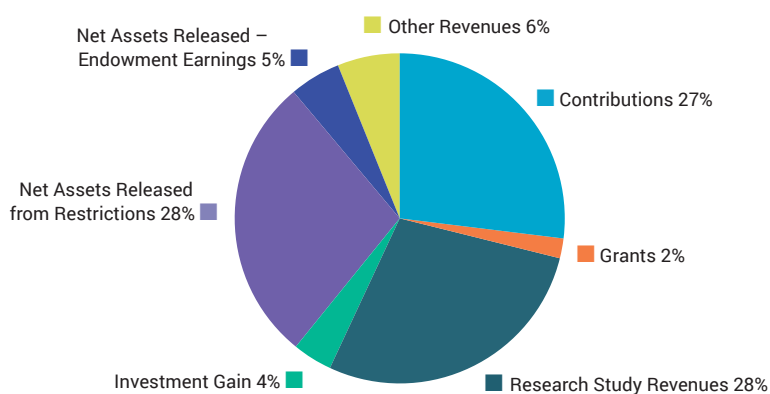
PROGRAM SERVICES

Education	3%	\$676,642	—	—	\$676,642
Research	64%	12,388,264	—	—	12,388,264
Total Program Services		\$13,064,906	—	—	\$13,064,906

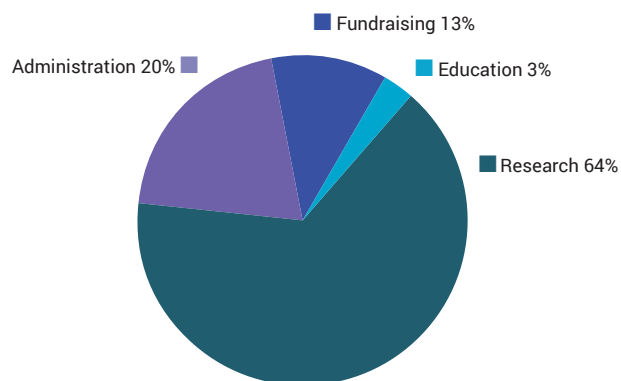
SUPPORTING SERVICES

Administration	20%	\$3,855,256	—	—	\$3,855,256
Fundraising	13%	2,455,397	—	—	2,455,397
Total Supporting Services		\$6,310,653	—	—	\$6,310,653
Total Expenses		19,375,559	—	—	19,375,559
Change in Net Assets		\$34,806	\$5,198,640	\$2,279,734	\$7,513,180

OPERATING REVENUES



OPERATING EXPENSES



2024 Balance Sheet

ASSETS

Cash and Cash Equivalents	\$11,727,537
Investments	42,718,310
Contributions Receivable	109,404
Pledges Receivable (net)	6,589,930
Other Receivables (net)	3,036,917
Other Assets	634,701
Right of Use Asset (net)	7,268,768
Fixed Assets (net)	2,371,612
Total Assets	\$74,457,179

LIABILITIES

Accounts Payable	\$585,382
Accrued Payroll	1,357,884
Accrued Pension	641,882
Amounts Due for Research and Study Costs	358,213
Deferred Revenues	90,760
Lease Liability	7,574,837
Total Liabilities	\$10,608,958

NET ASSETS

Without Donor Restrictions	\$13,587,954
With Donor Restrictions	50,260,267
Total Net Assets	63,848,221
Total Liabilities and Net Assets	\$74,457,179