Thanks to support from donors, patients, physicians, staff and community, **look what MHIF accomplished in 2021**

- **11,000+** HRS of professional and community education
- **250+** scientific papers published
- **3,000+** visits with patients who have hope through research studies
- **300+** new patients enrolled in studies; connected with thousands of patients to understand options through research
- **2,200+** patients involved in 220+ research studies at any given time
- **65+** new research studies, advancing options and outcomes for all patients

2021 was a strong year. In fact, MHIF activated more studies in 2021 than in any other year... for the second consecutive year!

---

**2022 / ACCELERATING IMPACT — WHAT WILL MHIF DO IN THE NEXT 40 YEARS?**

Committed to accelerating the impact of the MHIF mission—leading world-class cardiovascular research and education for the benefit of individuals and communities around the world. MHIF’s vision is to create a world without heart and vascular disease!
MESSAGE FROM THE CEO AND CMO

Happy Anniversary!

This year the Minneapolis Heart Institute Foundation® celebrates the 40th anniversary of the life-saving impact that was made possible by the founding physicians and community members who believed in the promise of world-class cardiovascular research and education. But let’s talk about last year...

Many would still like to forget 2021 (and 2020) due to its many challenges. Within these pages we are sharing the silver lining that you all made possible at MHIF. 2021 was a record-breaking year in the area of cardiovascular research and education. As you read the content of this report, you may first think it is science fiction; we guarantee this is great science, made possible by the collaboration of leading physicians, dedicated research staff, brave patients and grateful family and community members. We invite you to travel your community and the globe, pondering the magnitude of research and its impact. This is life-saving work.

We are inspired thinking about how this acceleration sets us up for more incredible impact in the next 40 years. Thank you for your important role in moving this work forward as we create a world without heart and vascular disease.

Scott Sharkey, MD  and Kristine Fortman, PhD

Kristine Fortman, PhD, Chief Executive Officer Minneapolis Heart Institute Foundation

Scott Sharkey, MD, FACC, President and Chief Medical Officer Minneapolis Heart Institute Foundation
2021 Research and Education Highlights

The Minneapolis Heart Institute Foundation® (MHIF) has a 40-year history of world-class cardiovascular research and education that has proven its positive impact on the standard of care for patients around the world. We enroll hundreds of research participants every year, providing hope through options that may only be available because of research.

2021 was a strong year, despite the challenges and realities of the COVID-19 pandemic. In fact, we activated more studies in 2021 than we have in any other year, for the second consecutive year, across all practice areas of cardiovascular medicine and care. 2021 in numbers:

- 3,000+ visits with patients who have hope and options through research studies
- 300+ new patients enrolled in research
- 65+ new research studies initiated
- 250+ published scientific papers
- 11,000+ hours of professional education

Following are a small selection of highlights across key areas of research and education in 2021:

Cardiac Surgery/Transplant

MHIF completed the first two successful heart transplants in the state and was one of only seven clinical sites in the country participating in a new research study to evaluate a new technology, called the heart-in-a-box. This research has the potential to change the way we do heart transplants and give hope to the 3,400+ patients in the U.S. who remain on a waitlist for a heart every year. The research focused on using the investigational technology to reanimate and resuscitate a donor heart that has stopped beating. The process involved a collaborative team of cardiothoracic surgeons, cardiologists, transplant coordinators, specialty care perfusionists, research coordinators, pharmacists and an organ procurement organization.

Cardiovascular Imaging

The MHIF Cardiovascular Imaging Research Center has a vision to create a new standard of personalized care through advanced imaging. Access to world-class expertise in imaging provides physicians with a roadmap to a patient's heart and vascular system. Not long ago, the standard was to explore options through open-heart surgery. Now, state-of-the-art imaging provides physicians and patients with better information to consider less-invasive transcatheter options — a radical improvement for patients.

2021 Highlights:

- MHIF participated as a site in the TRILUMINATE Imaging sub-study to evaluate the role of cardiac CT and MRI in patients receiving TriClip, a catheter-based, non-surgical treatment for severe tricuspid regurgitation. MHIF enrolled the first patient and remains the lead enroller.
- MHIF held three workshops on complex cardiovascular (CV) imaging and transcatheter mitral valve replacement (TMVR). These virtual conferences attracted physicians and other health care professionals from around the world and provided physician-led lectures and opportunities for interactive, hands-on training.

Cardiovascular Prevention

The MHIF Nolan Family Center for Cardiovascular Health is focused on research to help determine the optimal approach to cardiovascular prevention.

2021 Highlights:

- Published 44 manuscripts in leading cardiovascular journals
- 7 abstracts published and 14 invited talks at leading national and international conferences
- The manuscript, "Assessment of Coronary Artery Calcium (CAC) Scoring to Guide Statin Therapy Allocation According to Risk-Enhancing Factors," was published in the Journal of the American Medical Association (JAMA) Cardiology. The rates of heart attack and stroke according to CAC and other risk-enhancing factors (e.g. pregnancy-related conditions, elevated CRP, family history of heart disease, etc), demonstrated that CAC is the most important tool to assess cardiovascular risk.
- The annual Kevin Graham lecture focused on "The Evolution of the ABCs of Primary and Secondary Prevention of Cardiovascular Disease" with speaker: Roger Blumenthal, MD, FACC, FAHA, Kenneth Jay Pollin Professor of Cardiology, Director Ciccarone Center for...
the Prevention of Cardiovascular Disease, Johns Hopkins University.

- The 2021 Cardiovascular Prevention Symposium, Optimal Preventive Care was held in September, reaching more than 100 primary care providers.
- Established the cardiovascular prevention fellowship with Dr. Ayman Haq serving as the inaugural fellow. Through fellowship and internship opportunities, MHIF will leave a legacy of training future leaders in the field of cardiovascular prevention.

Coronary Artery Disease

The MHIF Center for Coronary Artery Disease is focused on making the impossible possible for patients with coronary artery disease (CAD) through innovative research, education and clinical practice. CAD is the leading cause of death for both men and women in the United States.

MHIF's Center for Coronary Artery Disease works to decrease the burden of CAD through research, innovation and education. MHIF's integration with the high-volume cardiovascular care center at Abbott Northwestern Hospital allows us to study and offer cutting-edge treatment to a large number of patients with CAD.

2021 Highlights:
- Published 101 peer-reviewed manuscripts, 38 abstracts/posters and 19 invited talks/podium presentations
- Presented live cases at TCT 2021, EuroCTO 2021, Award Winning Cases at CTO Connect 2021
- Published the Manual of Percutaneous Coronary Interventions, which is now widely considered the go-to textbook for interventional cardiologists in training – www.pcimanual.org.
- The center is also the coordinating center for the largest global registry of Chronic Total Occlusion (CTO) Interventions, known as the PROGRESS-CTO Registry. In 2021 this work was expanded to start two new registries focusing on collecting data and contributing to the knowledge base on Bifurcation Lesions and Complications related to Cardiac Catheterization, namely the PROGRESS Bifurcations and PROGRESS Complications Registry.
- MHIF has a robust clinical research scholar program, which draws on physician scientists from around the world to spend approximately two years doing research at MHIF. The scholars from Greece graduated from this program and started their clinical training at Yale University. Two new scholars from Turkey and Greece to join a Senior Scholar from Hungary who came to MHIF MHIF in 2020.
- The team received a generous gift from the Frank J and Eleanor Maslowski Charitable Trust to start a named Clinical and Research Fellowship Program starting in 2022, in collaboration with the MHI Clinical Program. This fellowship is a one-year program for US licensed Interventional Cardiologists to obtain specialized training in the field of Complex High Risk Indicated Procedures and Chronic Total Occlusion Interventions (CHIP-CTO).
- In-hospital mortality was high: 33 percent (4 percent for patients without COVID)
- Symptoms were unique: majority (54 percent) presented with respiratory symptoms (shortness of breath) rather than chest pain
- Significant proportion of COVID-positive patients presented with high-risk STEMI: cardiogenic shock (18 percent) and cardiac arrest (11 percent), which may explain the high mortality rate

COVID-19 and Heart Attacks

MHIF is the national coordinating data center for the North American COVID-19 ST-Segment Elevation Myocardial Infarction (NACMI) Registry, contributing to the international effort to inform optimal care during the rapidly evolving pandemic.

In April, MHIF announced the first publication of outcomes from the NACMI research showing that COVID-positive patients with STEMI represent a high-risk group of patients with unique demographic and clinical characteristics that are important to consider in providing optimal care. The findings included:
- Minorities were disproportionally affected: nearly 50 percent of the STEMI patients had minority ethnicity (23 percent Hispanic; 24 percent Black)

Heart Rhythm Disorders

In 2021, MHIF formally established a Heart Rhythm Center focused on advancing the treatment of all types of heart rhythm disorders, ranging from most prevalent to rare and inherited. This research is done in partnership with the Allina Health Minneapolis Heart Institute, one of the most comprehensive arrhythmia programs in the country.

MHIF researchers conduct cutting-edge research to improve and expand treatment options for patients with all types of heart rhythm disorders. As part of this work, researchers monitor and analyze the safety and effectiveness of implantable cardiac devices while working closely with MHIF's heart failure and structural heart disease teams.

2021 Highlights:
- Shared important research findings through 14 publications, 4 presentations and 8 abstracts.
- Published a case report in Journal of the American College of Cardiology about two siblings with desmoplakin cardiomyopathy, an inherited heart muscle disorder that can cause sudden cardiac death, particularly in young patients and athletes.

Continued on page 6
These technologies repair and replace diseased heart valves—aortic, mitral, pulmonary, and tricuspid—through peripheral vessels or small incisions. The multidisciplinary team includes physicians across multiple specialties, including interventional cardiologists.

gathered from the research showed a statistically significant reduction in blood pressure across a broad range of hypertension severity, offering hope for patients.

Vascular Surgery

MHIF published research showing improved patient outcomes and significantly decreased 30-day mortality in aortic dissection patients managed through a unique comprehensive care strategy designed by a team with multidisciplinary expertise. Research is often focused on a new technology or technique; this research highlighted the importance of the process, protocol and expertise involved in determining the care pathway for patients that can lead to the best outcomes for all involved, even in cases where more complex repairs were performed. The manuscript, “Impact of a multidisciplinary acute aortic dissection program: Improved outcomes with a comprehensive initial surgical repair strategy,” was published in the Journal of Vascular Surgery.

MHIF contributed to research that led to US FDA approval for a new endovascular aneurysm repair solution, called the Gore Excluder conformable abdominal aortic aneurysm (AAA) endoprosthesis that is designed to prevent the aneurysm from getting bigger, bursting, or causing death.
• Treatment for calcified cardiovascular disease is advancing with a potential new procedure called Intravascular Lithotripsy (IVL). MHIF participated in the study, confirming excellent one-year outcomes with coronary IVL in both women and men.

Regenerative Therapies/Stem Cells

In 2021, MHIF enrolled patients with chronic chest pain in both gene and stem cell therapy trials. The EXACT trial studied the strategy of delivering genetic information to the heart muscle. This genetic information prompts existing blood vessels to create new vessels that will deliver oxygen rich blood to the heart. With the FREEDOM stem cell study, a patient’s own stem cells are harvested, processed and then injected directly into the coronary arteries to help repair damaged blood vessels.

Women’s Heart Health

The MHIF Penny Anderson Women’s Cardiovascular Center has a goal to advance the understanding of heart disease in women, how to prevent it and optimize patient care.

2021 Highlights:

• The MHIF team participated in 7 podium presentations and published 10 manuscripts/abstracts. Two of these research publications to include:

  Original research about Spontaneous Coronary Artery Dissection (SCAD), which occurs predominately in women in their 40s and 50s. After reviewing our database of SCAD patients over the last decade and conducting interviews with patients, we found there is significant opportunity to better meet the needs of this younger demographic of women while still obtaining evidence-based medicine goals.

  Findings about women’s heart health during pregnancy were presented at the American Heart Association Scientific Sessions 2021 and published in Circulation. In a review of data from 200+ women, the team found women who participated in a multidisciplinary cardio-obstetrics program were more closely monitored during pregnancy, which may have contributed to fewer postpartum emergency visits and readmissions postpartum.

• Dr. Retu Saxena, MHIF researcher and cardiologist at the Allina Health Minneapolis Heart Institute®, was elected to serve as the next President of the Minnesota Chapter of the American College of Cardiology.

• Dr. Courtney Jordan Baechler, MHIF researcher and cardiologist at the Allina Health Minneapolis Heart Institute®, was elected to serve on the board for WomenHeart, the National Coalition for Women with Heart Disease.

• The annual Hope, Health & Humor event event brought together 150+ women from different backgrounds for an evening of connection, inspiration and education. The event featured a keynote from Pilar Gerasimo, health journalist and author of the book, Healthy Deviant, as well as an interactive dialogue with Allina Health Minneapolis Heart Institute® female cardiologists.

• Throughout the year, the MHIF team presented more than 20 community education talks to a wide variety of groups about women’s heart health.

Health Equity and Community Engagement

MHIF and Insight News partnered with Insight Health Equity Action Lab (iHEAL) to offer a series of five Heart-to-Heart Conversations. With a goal of informing and inspiring others, the series featured guest speakers from the North Minneapolis community who shared their stories of thriving in spite of living with heart disease and were joined by MHIF research cardiologists.

Health Quality and Outcomes

• The Cardiovascular Quality Improvement and Care Innovation Consortium was developed under the guidance of Dr. Steven Bradley and seeks to rapidly improve quality and innovation in cardiovascular care through the development, validation, and dissemination of novel care delivery strategies. As of 2022, the collaborative represents 15 health systems and has presented abstracts and led panels at meetings of the American Heart Association.

• Novel strategies are needed to address gaps in the use of advanced and emerging therapies in cardiovascular disease. Clinical data captured in routine care delivery is being used to identify and streamline patient referrals for advanced therapies in advanced heart failure, valvular heart disease, and electrophysiology. Publications in leading journals have shared the learnings of this work.
Cardiac Transplantation: Past, Present & Future by Dr. Benjamin Sun, cardiac surgeon and MHIF researcher

Congestive heart failure affects more than six million patients and 600,000 new patients a year. Treatment options for end-stage heart failure include medical therapy, which only offers a 20 to 30 percent two-year survival for patients, and transplantation, which offers nearly 70 percent five-year survival outcomes.

Dr. Benjamin Sun discussed limitations of the current procurement process, where donor hearts are transported on ice, and the new Organ Care System (OCS Heart) from TransMedics that MHIF researched as part of the EXPAND heart trial.

“One of the limitations of the traditional system is that heart needs to be ‘perfect’ for acceptance, which means we’re probably not using every heart that is usable,” said Dr. Sun. “We also don’t know how the heart is doing once it’s on ice.”

In the research of the OCS Heart, the physician learned about advantages, including continual monitoring of a donor heart during transport.

“Now we have a tool where we can assess the heart for the entire trip. Because we’re monitoring, we can actually see if the heart is getting better, stable or worse and we can intervene. Our experience has been very positive. It has the potential to totally change what organ procurement may look like down the road.”

You can read the story of patient Kevin Manion who received a heart transplant through MHIF research at mplsheart.org/kevin.

Fish Oil for the Prevention of Cardiovascular Disease by Dr. Michael Miedema, director of Nolan Family Center for Cardiovascular Health and MHIF researcher

Whether or not to take a fish oil supplement is a common question cardiologists hear from patients in the clinic. The American Heart Association recommends 2,000 mg/week of omega-3 fatty acids, which can be achieved by eating two servings a week of salmon or other fatty fish such as such mackerel, albacore tuna, sardines and herring.

Dr. Michael Miedema explained, "Fish oil is typically considered a supplement. For most supplements, we don't have a lot of research. That's not the case with fish oil; we have good studies looking at the cardiovascular benefits of fish oil."

Dr. Miedema provided an overview of six randomized trials for fish oil supplements that looked at the cardiovascular benefits and what he described as a “threshold” relationship for taking a supplement versus eating seafood high in omega-3.

“People who don’t have any seafood in their diet seem to get benefit from taking a fish oil supplement, whereas once you already have some seafood in your diet with omega 3s, getting more doesn’t seem to change anything,” said Dr. Miedema. “Eat the real thing! When we try to get smarter than food, we tend to end up on the wrong side of things.”

Heart Attacks, Blockages & Stents: Why and How You Should Care for Your Coronary Arteries for a Healthier Heart by Dr. Emmanouil Brilakis, director of Center for Coronary Artery Disease and MHIF researcher

With coronary artery disease, blockages that cause a heart attack can develop over many years. In some cases, patients will say they had a recent stress test or an angiogram that showed everything was fine, then a few days or weeks or months later they have a heart attack.

“The answer is that the angiogram only looks at the lumen of the artery, which is where the blood is flowing,” explained Dr. Emmanouil Brilakis. “However, we have ways to look inside the artery itself and look at the wall of the artery. That can be done by what's called intravascular imaging, which is literally putting our head and eyes inside the artery and when we do that, we often find that even though the artery may look good, there's cholesterol piling up on the sides of the artery.”

There are different types and locations of blockages and in recent years, cardiologists are seeing more complicated blockages that are more difficult to open. Additionally, patients are getting older, have more comorbidities, diabetes and kidney problems, which also adds complexity. At the same time, there is progress with new equipment and new techniques.

“We now see that more than half of the blockages we take care of on a day-to-day basis are actually complex blockages for one or more reasons,” said Dr. Brilakis. “The good news is we have new imaging technologies that we can look inside the artery. The disease is getting tougher, but we’re improving and there is a lot of work being done at the Center for Coronary Artery Disease to understand this process and find solutions to get the best outcomes for patients.”
MHIF returned to an in-person 12-week Clinical Research Internship Program and welcomed 12 undergraduate students. Each year, MHIF selects interns from a strong pool of candidates who are pre-med or planning a career in medicine. Interns are paired with Allina Health Minneapolis Heart Institute physicians and participate in groundbreaking research projects that are presented at the end of the summer. Many interns become authors on articles published in scientific journals and some interns have the opportunity to present at a national conference.

This cutting-edge educational experience is made possible by the generous contributions of individual donors, local foundations and industry organizations who support that hands-on experience for the future generation of health care providers. MHIF is grateful for the generous corporations, foundations and individuals that have helped to underwrite the MHIF Clinical Research Internship Program!

“I wanted to participate in this internship because MHIF researchers and practitioners have an admirable record of excellence in research pursuits, innovation and patient care. I believe that all these factors can be cohesive with each other, and this experience offers me the best opportunity to learn more. This internship offers a unique experience to deeply learn and engage in mentorship with a full clinical research team (physicians, research nurses, biostatisticians, etc.) while also shadowing practitioners in all facets of cardiology. There isn't another internship opportunity for undergraduates that offers such a robust experience.”
— Thomas Basala, 2021 MHIF Clinical Research Intern

“After last summer's MHIF program, I became very excited about the potential to be a physician researcher. My experience through the unique internship program helped solidify my commitment to a career as a lifelong learner and educator.”
— Ananya Shah, 2021 lead intern and part of the hybrid internship experience from the summer 2020 program

The goal of MHIF's internship program is not only to develop, but also empower the next generation of health professionals.

“Getting to write case reports, an abstract, and a paper prepared me for not only scientific writing but gave me the confidence to take on new projects, no matter how intimidating.”
— Alex Gutierrez, 2021 MHIF Clinical Research Intern

### Interns and Research Topics

<table>
<thead>
<tr>
<th>Intern</th>
<th>Research Topic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ananya Shah</td>
<td>Myocardial Infarction with No Obstructive Coronary Arteries (MINOCA), Clinical Experience with Leadless Intracardiac Pacemaker Implantation</td>
</tr>
<tr>
<td>Vennela Avula Cline and Dianne Hickok Intern</td>
<td>Coronary Artery Perforation during Percutaneous Coronary Interventions</td>
</tr>
<tr>
<td>Aaron Bae</td>
<td>Pulmonary Hypertension in Hemodialysis Arteriovenous Fistulas</td>
</tr>
<tr>
<td>Thomas Basala Sheldon Z. Wert Intern</td>
<td>Neochordal Replacement versus Leaflet Resection for Surgical Mitral Valve Repair</td>
</tr>
<tr>
<td>Marissa Dulas</td>
<td>Cardiovascular Complications Associated with COVID</td>
</tr>
<tr>
<td>Alex Gutierrez Rose Peterson Memorial Intern</td>
<td>Bifurcation Vs Non-Bifurcation in Percutaneous Coronary Intervention (PCI)</td>
</tr>
<tr>
<td>Anais Marenco</td>
<td>Patients Hospitalized for COVID-19</td>
</tr>
<tr>
<td>Riya Pillai</td>
<td>Clinical Presentation and Classification of Cardiac Sarcoidosis</td>
</tr>
<tr>
<td>Anish Sethi</td>
<td>Multi-LEAD ECGs for Measuring Electrical Synchrony in Patients with Heart Failure</td>
</tr>
<tr>
<td>Joseph Verry Pete Pierce Intern</td>
<td>Heart Failure Medications in Patients with Chemotherapy-Induced Cardiomyopathy</td>
</tr>
<tr>
<td>Julia Wang</td>
<td>Renal Artery Vasculopathy</td>
</tr>
<tr>
<td>Kathryn Xu Richard Kantrud Intern</td>
<td>Big Data and Quality for Electrophysiology Procedures; Magnetic Field Interference and Cardiac Rhythm Devices</td>
</tr>
</tbody>
</table>
PATIENT STORY

Life After Aortic Dissection: Grateful to be Part of a Miracle

Randy White, 62, lives in a small town in Iowa and has always been healthy with no significant family history of cardiovascular disease. His heart journey began in early 2021. He was semi-retired and helping a friend renovate houses.

“It felt like somebody took their fist and run it up from my stomach to the top of my throat, I got real sweaty and my chest hurt bad,” said Randy.

Randy’s left side went numb and he thought he was having a heart attack. At the local hospital emergency room (ER), the doctor on duty was asking questions and beginning her investigation.

“The doctor came back to talk to my wife and I and she asked me if I believe in God,” said Randy. “I said, yes I do. She said you better start praying because this is not good.”

Randy had an acute aortic dissection (tear in the aorta—the largest artery in the body). They needed to quickly find a hospital with the capabilities to do the complex surgery necessary to fix the tear and save Randy’s life. This condition has a mortality rate (or risk of dying) of 1% per hour that passes without surgery. Due to the COVID-19 pandemic and limited bed availability at specialized centers, the doctor called nine hospitals throughout Iowa, South Dakota and Minnesota before they connected with the Allina Health Minneapolis Heart Institute® at Abbott Northwestern Hospital, where there was a team of doctors with the expertise and capabilities to do the surgery.

Randy’s wife, Betty, and their daughter arrived at Abbott around 1:00 a.m. and were let in to see Randy. He was out of surgery and sedated.

“I didn’t think I was coming home,” said Randy. “I remember in the middle of the night, I couldn’t talk, but I could hear the doctors talking and I know sign language, so I started signing, ‘Am I dying?’ I heard one of the doctors ask what I was doing. They looked it up on their phone and a hand touched my shoulder and they said, ‘No, you are not dying.’ I met that doctor two days later.”

Randy’s aortic dissection occurred in the main artery that comes out of the top of his heart. An aortic dissection can occur in a diseased aorta (or aneurysm). Many patients with this condition may die suddenly before reaching medical care; even in many specialized centers in the United States, the mortality for those getting surgery, is 1 in 5.

Randy appreciates the importance of the care he received from the ER to the flight crew, and to the multi-disciplinary team of imaging experts and cardiac and vascular surgeons at Abbott who created a plan and provided the life-saving surgery.

Randy is a living example of the care and outcomes that exist today for aortic dissections because of world-class cardiovascular research.

Research Published in 2021

MHIF published research showing improved outcomes and significantly decreased 30-day mortality in aortic dissection patients managed through a comprehensive care strategy designed by a team with multidisciplinary expertise. The goal is to integrate care between specialties to expedite the diagnosis and transfer, standardize pharmacotherapy and imaging protocols, expedite operating room mobilization and determine the optimal surgical approach. Research showed involving both vascular and cardiac surgeons in the initial evaluation led to complex surgical procedures, addressing more than just the initial repair of the acute aortic dissection. For patients, results showed significant improvement in long-term outcomes, including survival.
Highlights From a Few Members of the MHIF Board

We are grateful to the members of MHIF’s Board of Directors, who all bring a wealth of experience, knowledge and unique perspective along with their passionate support for MHIF and its vision. Their dedication to exceptional governance guides MHIF in continuing its legacy of cardiovascular innovation. Meet a few members who served in 2021:

Cheri Rolnick, PhD, MPH
Cheri Rolnick joined the board in 2017 and is the retired former associate director of research at the HealthPartners Institute, where she focused on women’s health, heart disease and access to care. She’s passionate about health care and education and is particularly excited about the health equity work MHIF started in the North Minneapolis community in 2021 to help reduce disparities in the diagnosis and treatment of heart and vascular disease.

“MHIF is an organization of action, not just a bunch of empty words. MHIF thought about their logical space in this arena and started programs to make a real difference in a community that has real needs. I think that sets MHIF apart from other organizations who have very good intentions, but don’t necessarily take concrete action steps. MHIF leadership is stellar with strength everywhere. It’s a joy to be in the midst of such brilliant, caring, capable, state-of-the-art physicians who are so humble yet doing miraculous work.”

Hugh T. Nierengarten, JD
Hugh Nierengarten is a principal at Nierengarten Law who was pleased to join the board in 2019 in order to continue his support of MHIF’s mission after serving on the Allina Health Board of Directors for 10 years. Hugh is also a former resident of New Ulm and served on the New Ulm Medical Center Board in 2009 when MHIF launched its 10-year award winning population health research initiative, The Heart of New Ulm Project.

“I’m a big believer in science-based research from basic science through complex, disease specific research. The ability of MHIF to foster and support world-class physicians and other researchers to pursue such research is exciting and engaging. When I hear about the hundreds of studies, publications, reports and presentations made and prepared by MHIF physicians and researchers each year, I can’t help but be proud of the organization. One of my favorite areas of research and education is MHIF’s physician-initiated research, as it allows physicians to pursue their own vision for the future of cardiac care.”

Kristen Bowlds
Kristen Bowlds joined the board in 2021 and brings a passion for marketing and spreading awareness about heart disease. As a young marketing leader at C.H. Robinson, her focus abruptly shifted in 2016 following the birth of her second child when she experienced multiple heart attacks due to Spontaneous Coronary Artery Dissection (SCAD). Her experience sparked a desire to share her story and help advocate for MHIF’s mission, particularly around women and heart disease.

“I was very lucky to have Dr. Scott Sharkey be the cardiologist on call the night that I was admitted. I was able to develop a relationship with not only him, but MHIF as a whole. I experienced firsthand how they put their patients first. I also saw the passion they put into their research and finding answers for their patients and in turn, I wanted to help advocate for them. I find the research around women’s heart health extremely exciting and seeing MHIF at the center of this work is just so amazing.”

Dr. Mosi Bennett, MD, PhD
Dr. Mosi Bennett is a partner and senior consulting cardiologist specializing in heart failure and transplantation at the Allina Health Minneapolis Heart Institute® (MHI®). He received his MD and PhD degrees in the Medical Scientist Training Program at Johns Hopkins University School of Medicine. MHIF and its renowned reputation for research played a large role in his decision to join the MHI® clinical practice in 2013.

“I think MHIF is what makes MHI® great; it’s unique to have a non-university-affiliated group like MHI® have such a strong research presence. I’m a strong believer in the foundation’s mission and I had a desire to get more involved. In addition to the clinical work I do in heart failure specifically, serving on the board allows me to make more of an impact, since the research helps many more patients. Being able to participate in some really groundbreaking and influential research trials has allowed us to offer our patients more in terms of therapies and devices, and for some patients, the opportunity to participate in a study when we’ve exhausted other options to help them.”
We would like to thank our physicians from the Allina Health Minneapolis Heart Institute® for your generosity. You are an inspiration as we work together to create a world without heart and vascular disease.

**PHYSICIAN LEADER**
- Richard Bae, MD and Lauren Kim-Bae
- Steven Bradley, MD and Kelly Ryan
- Emmanouil Brilakis, MD and Nicole Brilakis
- M. Nicholas Burke, MD and Sue Slattery-Burke
- Alex Campbell, MD
- João Cavalcante, MD and Kimberly Cavalcante
- Ivan Chavez, MD and Gail Chavez
- Victor Cheng, MD and Yoon-Hee Cha, MD
- Peter Eckman, MD and Erika Olson, MD
- Thomas Flavin III, MD
- Charles Gornick MD and Nancy Gornick
- David Hurrell, MD and Stacey Hurrell
- Desmond Jay, MD and Podaly Jay, MD
- John Lesser, MD and Julie Lesser, MD
- Michael Mooney, MD and Jodi Mooney
- JoEllyn Moore, MD and Andrew Roalstad

**PHYSICIAN GIVING**
- Marc Newell, MD and Kari Newell
- Quirini Orlandi, MD and Helena Orlandi
- Anil Poulose, MD and Sheila Carr
- Michael Samara, MD and Stephanie Samara
- Retu Saxena, MD and Greg Ripley
- Jay Sengupta, MD and Ria Bardhan, MD
- Scott Sharkey, MD and Patricia Sharkey
- Paul Sorajja, MD, and Abbie Young
- Ashenafti Tamene, MD and Selome Gebremariam Gezahegn
- Norma Thiessen, MD
- Jay Traverse, MD and Sarah Traverse
- Yale Wang, MD and In-Zu Tuan, MD

**PHYSICIAN SUSTAINER**
- Joshua Buckler, MD and Molly Carlson, MD
- Timothy Dirks, MD and Teresa Dirks
- Eric Fenstad, MD and Brooke Fenstad, MD
- Kevin Harris, MD and Ila Harris

**ROBERT G. HAUSER LEADERSHIP AWARD**
The Robert G. Hauser Leadership Award recognizes an individual who promotes visionary leadership. Innovation in clinical practice and research requires champions who take risks to identify necessary changes and create innovative solutions to set those improvements in motion. The award is given to an individual who is active in cardiovascular disease prevention or treatment, advocates for patients and the profession, demonstrates visionary leadership and a strong commitment to excellence, and provides leadership to MHI®, MHIF and other organizations. Thanks to a generous donor, the honoree will receive up to $10,000 to be used for innovation or leadership training.

2021 RECIPIENT
- Marc Newell, MD
  - Researcher and Vice President
  - Minneapolis Heart Institute Foundation®
  - Senior Consulting Cardiologist
    - Allina Health Minneapolis Heart Institute®

**RAY BENDTAHL DISTINGUISHED SERVICE AWARD**
The Ray Bentdahl Distinguished Service Award recognizes an individual’s contributions to MHIF and accomplishments as an outstanding leader, mentor, philanthropist, educator or researcher. This award specifically honors an individual whose achievements embody the qualities of an outstanding leader, recognizing exceptional service to the foundation that is reflected in the organization delivering exemplary service to its valued constituents. As of 2019, the Bentdahl family will make a $5,000 gift to MHIF in honor of the recipient, to an area of work determined by the recipient.

2021 RECIPIENT
- M. Nicholas Burke, MD
  - Cardiologist and Associate Director, Center for Coronary Artery Disease
  - Minneapolis Heart Institute Foundation®
  - Director, Cardiovascular Lab Operations
    - Allina Health Minneapolis Heart Institute®
MEMORIAL GIFTS

We are grateful to those who made gifts in memory of loved ones. Names in bold are those of the deceased.

Morris Alpert
Dr. Susan Alpert

Doug Anderson
Christy Eichers

Rolf Andreassen, MD
Norma Neumann
(Rolf L. Andreassen Trust)

Jason Bass
Jeffrey Brown

Mark Edward Bass
David and Gail Brown

Philip Bayles
Kathleen Hanson

Mary Beecher
Phyllis and Russell Eklund
Marilyn Hokkala
Beverly Jodsaas
Douglas and Bonnie Larson
Dorothy Staples
Sandy Stier
Gail and Shirley Tilton
Realm of Mounds View
Beverly Wedan

Ralph Berlovitz
Mary Cress Berlowe

Harvey "Harry" Bligard
Marilyn Haugen

Grace Cameron
John Cameron

Ray Carlson
Gail and Shirley Tilton

Roger Cersine
Barbara and Arnold Helgemoe

Rodney Cooperman
James Dailey and Family

Eleanor "Ellie" Cunniff
Virginia "Ginny" Blood
Nancy and Mark Correia
Stephanie Duffy
McKnight Foundation Employee
Matching Gift Program
Jason Steffen
Jean Wolff

Raymond "Ray" Debevec
Kathryn and Roy Hertenstein

Joyce Edwards
Jane and James Hruby

Stephanie Coltvet Erdmann
Paul Erdmann

Dolores Faber
Doris and Leonard Peters

Margie Fischer
Amy and Richard Fischer

David Forster, Jr.
Sandra and David Forster, Sr.

Gary Fredrickson
Kenneth and Faye Johnson

Donna Marie Gangelhoff
Neil Naftalin

Stephen Geer
Elizabeth Pfeifer

Randi Sundet Griner
Heidi Sundet

Verle Hammer
Janice Hammer

Maurice Hayes
Marion Hayes

Robert "Bob" Heine
Gertrude Anderson
Janice Born
Naomi and Harley Uber
Steven and Diane Winkels

Marilyn Hoffman
Ruth and Charles Gassmann
Cecelia Lundin

Burton Horsch
Aaron and Stacy Horsch

Karen Karst
Kathryn and Roy Hertenstein

Sharon Kaster
Harriet, Bob, Robin, and Jeff Berland
Adam Berman
Mary Byron
Julie Dragat
Carly Loewen
Leslie Stearns

Larry Katz
Neil Naftalin

Beverly Koch
William and Gloria Walsh

Bernard "Bernie" Kriens
Joan Anderson
Angela Cooper
Beth Dahlmeier
Laura Fix
William and Barbara Gabler
Gaylen Glylin
Evangelina Gunderson
Larry R. Larson
Douglas and Michelle Leba
Patti Ledin
Afton SavATree (Michael Pizzi)
Nancy and Brian Porter
Carole and Rick Reynolds
Kent Robbins
Gerald Sombrk

Patricia Marble
Craig and Melissa Wiklund

Catherine Ann Marx
Hunegs, LeNeave, and Kvas, PA

Susan Nierengarten
Hugh Nierengarten

Kathryn O'Donoghue
Joann and Dale Statsman

James W. Olson
Jacquelynn Olson

Kara Olson
Susan L. Olson

Lucille Kyler Olson
Dianne McInnis Safley and James Safley

Rose Peterson
Erik Hendrickson
Bixby and Heidi, Mark and Brenda
(Brenda Knight)
Shirley and Mike Lundgren
Holly MacDonald and John Orbison
ReCor Medical, Inc.
Tom Buslee and Lindsay Rogers
Jaye Traverse, MD and Sarah Traverse
Yale Wang, MD and In-Zu Tuan, MD

Brian Peterson
Cynthia Youtz

Daniel Prins
Jay and Karin Addy

Timothy Puhek
Susan L. Olson

Greg Riebe
Erin and Ryan Albu
Sanofi-Aventis
Troy Azzivitto
Canika Babal
William Barnett
Erin Bischoff
Kimbra Boitnott
Shelly Brouwer
James and Sue Casey
Eva Christianson
Erin Cote
Joan DeFilippo
Dennis Endy
Steve English
Paul Erdmann
Christopher Ewert
Thrivent Financial
Kelly Flesch
Scott Forman
Heather Forrest
Corianne Gregg
Melanie Hedlund
Erin Hente
Katie Hessen
Kristine Higgins
Meghan and Russell Holmes
Kelley Hoolihan

Continued on next page
Memorial Gifts, continued

Greg Riebe, continued
Lyndsey Howard
Madeline Jensen
Tom Jensen
Mark Johnson
Hani Khalil
Renae and Ryan Kuehl
Jessica Kurth
Heidi Lynch
Joseph and Annie Lynch
Heidi McDonald
Sandra McRainey
Daniel and Megan Meyers
Rosemary and Robert Meyers
Lauren Motzko
Diana Noller
Jay O’Neal
Alison Petersen
John and Katie Rickert
Pauline Ridyard
Kate Riebe
Kelly and Richard Riebe
Margaret Riebe
Matt and Meghan Schadow
Elizabeth Schepis

John Schmidt
Bink Semmer
The Severins
Stacey Sigurdson
Leslie Slomka
Lucy Smith
Mary and John Spohn
Tom Sullivan
Cortney Swensen
Amy and Paul Vajgrt
Eric Vogel
Christy Wood
Marco Rodriguez
Jaime Wang
Marilyn Ryerse
Roland Sigurdson
Stacey Sigurdson
Margo Skillings
Kathryn and Roy Hertenstein
Tim Sussa
Glory Blakeborough
Donna Sperr
The Bell Eenigenburg Family
(Dianne, Dave, Jakob, and Luke)

Robert Swartz
Kathleen Haines
Judy Thompson
Robert Thompson
Jason Tilton
Gail and Shirley Tilton
Irving Victor
Jeffrey Victor
Neal Viemeister
Ginn Kirby
Harvey Volk
Hinckley-Finlayson Public Schools
Daniel Krueger
Robert Wendt
Doreen Wendt
Daniel ‘Dan’ Wieczorek
Pamela Burns
Robert Lafavor
Jackie, Kris, and Kathy Larson
Susan Wieczorek

*Noting deceased, prior to date of publication

HONOR GIFTS
We are grateful to those who made gifts in honor of family, friends, physicians and caregivers. Honorees are listed in bold.

Emmanouil Brilakis, MD and the entire
MHI Team
David and Denise Kleppen
M. Nicholas Burke, MD
Amanda and Kent Adams
Marko Mrkonich
Gary and Susan Rappaport
M. Nicholas Burke, MD, Elizabeth Grey, MD and William Katsiyiannis, MD
Jack Lewis
David and Sandra Carlson
Parr McKnight Wealth Management
Foundation (Renaissance Charitable
Foundation)
Jessica, Brent, and Jack Gottlieb
Jim and Betsy Backe
Linda and Butch Bialick
Jessica Gottlieb
Mike, Jen, Fred, and Jonah Hartman
Gregory Graves
Entegris, Inc
Elizabeth Grey, MD
Lisa Rotenberg
Robert Hauser, MD, John Lesser, MD and
Paul Sorajja, MD
John and Susan Morrison
Rosemary Jordan
Carol Schmidt
Lyle Joyce
Joseph Amato
William Katsiyiannis, MD
Sara and Wayne Criger
Vibhu Kshettry, MD
Al and Sally Hanser
Patient Morissa “Missy” Lavintman and her
physicians, including: Peter Eckman, MD,
Karol Mudy, MD, and Michael Samara, MD
F. Bruce Cohen and Laura Friedlander
Patient Andrew Lerud and the doctors and
nurses at MHI
Cathy and Thomas Lerud
John Lesser, MD
Sheldon and Terry Fleck
Harvey Mackay
Neil Naftalin

Kevin Manion
Eamonn Manion
Nurses and Doctors in the ICU Heart
Transplant Unit
Wayne Boike
Quirino Orlandi, MD and Team
Jacqueline Lindman
Patty Peterson
Nancy Deiter
Kate and Greg* Riebe
Karla Brustad
Jacquelyn Sandidge
The Lebens Family
Timothy Sawyer
Sally Sawyer
The Tendyne Research Team, William
Katsiyiannis, MD and Elizabeth Grey, MD
Jack Lewis
Robert Van Tassel, MD
Al and Sally Hanser
Nancy Meyer Wilson
Harry Lerner
The Minneapolis Heart Institute Foundation® (MHIF) Van Tassel Society includes donors who have made a planned gift or who have informed MHIF of their future estate gift.

Thelma Aaby*
Linda and Ward* Anderson
Barbara and Siah* Armajani
Mosi Bennett, MD and Vickie Gillifilian-Bennett
Ray* and Shirley* Bentdahl
Gladycle* Bergman
Signe and Wayne Boysen
Frank* and Sylvia* Brennan
C. Richard* and Eleanor* Brisbois
Conley* Brooks Sr. and Marney* Brooks
M. Nicholas Burke, MD and Sue Slattery-Burke
Walter* Bush, Jr. and Kathleen* Bush
Gloria* and Gerald* Cessna
Stanford* and Elise* Church
Ellen Daunefy*
Robert and Marilyn* Davidson
Merle Dobbs*
Edna Downing*
Michael and Glenda Dubes
Gerhard Duesterhoeft*
Rev. Peggy Durda-Knapp*
Dorothy Ewing*
Laverne* and John* Ford
Vicki Fraher and Robert Gilbert
Angela Frerichs and Burton* Goldstein
Marna and James* Fumerton
Frederick Gobel, MD and Suzanne Gobel
Willard Goitz*
Charles Gornick MD and Nancy Gornick
James Grantman*
Margie and Richard* Haag
Lynne Hannon
M. Lenore Hannon*
Robert Hauser, MD and Sally Hauser
Marilyn and Donald* Henkel
Timothy Henry, MD
Kathryn and Roy Hertenstein
Edward* and Florence* Hesse
John and Leslie* Hollister
Eva Holmes*
Deborah Hopp and Kit Dahl*
Ann Hrdlichka*
David Hurrell, MD and Stacey Hurrell
C. Charles Jackson*
Lawrence* and Joyce* Johnson
Margaret and Thomas Johnson
Marylyn* and Milton* Johnson
Phyllis Johnson*
Viola Johnson*
Debra and Michael Jorgensen
Richard D. Kantrud Charitable Trust
William Katsiyiannis, MD and Natalie Katsiyiannis
Robert* and Patricia* Kelsey
Harold Kiecker*
Linda and Jerry* Kieman
Bernice Klask*
Charles* and Shirley* Koplen
Charlotte Krueger*
Eleanor Larson*
John Lesser, MD and Julie Lesser, MD
Jacqueline and Stuart* Lindman
Luella* and Donald* Mackdanz
Grace Mahlberg*
Rose Mallinger*
Kathryn* and Norman* McGrew
Kathleen and William McReavy
J. Donald* and Dorothy* Meyer
Michael Miedema, MD and Allison Miedema
Michael Mooney, MD and Jodi Mooney
Michael Mulligan
Ruth and Donald* Murphy
A. Louis* and Dorothy* Neste
Norma Neumann and Rolf Andreassen*, MD
Marc Newell, MD and Kari Newell
Ellen Olson*
Gordon Olson*
Quirino Orlandi, MD and Helena Orlandi
Margaret Osterberg*
Carol* and Aleck* Ostrow
Janet Paper*
Lucile* and Donald* Pearson
Wesley Pederson, MD and Stephanie Pederson
Daniel Perschau
Ralph Peterson*
Kenneth and Rose* Peterson
Jody and Octavio Portu
Joshua* and Jean* Premack
Henry Reget*
Lester* and Marion* Reinhardt
Dianne McInnis Safley
Wilson Salter, MD and Barbara Salter
Ilene Saunders*
Robert and Allene Sayre
Joseph* and Norein* Scallon
Margaret Schaefer*
Margaret* and Gordon* Schmidt
Alyce Scholten*
Scott Sharkey, MD and Patricia Sharkey
Mary Smith*
Roger Smith*
Paul Sorajja, MD and Abbie Young
Jack and Elva* Spillane
George Stepnovitz*
Hilda Stoetzel*
Peter Stokman, MD and Marcie Stokman
Hillary* and Audrey* Tanke
Lois Thompson*
Jay Traverse, MD and Sarah Traverse
Robert Van Tassel, MD and Betty Van Tassel
Frank Wallace*
W. Shelley* and Virginia* Walsh
Yale Wang, MD and In-Zu Tuan, MD
Lucille Wellington*
Matilda Westerdahl*
Charlotte* and Donald* Wethington
Penny and Mike* Winton

*Noting deceased, prior to date of publication
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.

Thelma Aaby*
Beverly and Steve Aanenson
Margaret* and Vernon* Aanenson
Abbott Northwestern Hospital
Abbott
Lynn and Mike Allen
Paul G. Allen Family Foundation
Allianz Life Insurance Company
Adrian Almquist, MD and Sally Almquist
Lollie and Richard* Ames
Ames Construction, Inc.
Jeanne* and Kenneth* Anderson
Penny and Lee Anderson Sr.
Marion* and John* Andrus III
DeWalt* Ankeny Sr. and Marie* Ankeny
Apache Foundation
Ark Foundation
Orn Arnar, MD and Magret* Arnar
Sumonda and Kit Aron*, MD
Karen and Edward* Baker
Baker Foundation
Constance Bakken*
Doris and Earl* Bakken
B. John Barry
Barry Foundation
Helen* and Paul Baszucki
Ford Bell, MD and Amy Bell
Ann Bentdahl and Roger Smith
Craig Bentdahl
Ray* and Shirley* Bentdahl
Berger Transfer & Storage, Inc.
Patricia* and Glenn* Bergstrom
BMO Harris Bank N.A.
Boston Scientific
Mary Bowen and Ivan Bowen* II
Signe and Wayne Boysen
Frank* and Sylvia* Brennan
Conley* Brooks Sr. and Marney* Brooks
Irving* and Beverly* Brooks
Janet and Thomas* Brosig
Charles Burnside, MD and Amy Burnside
Elaine and Ron* Burton
Barbara and Rodney* Burwell
Sally* and William* Bye
Cardiac Surgeons of St. Paul
Katy* and Ted* Carlson
Jeffrey Carlson*
Ceridian Corp.
James Chafoulias
Lloyd Cherne*
Fay and Jack Chestnut
Chestnut Cambronne Attorneys at Law
Richard Cohen Jr. and Diane Cohen
Beverly* and Sidney* Cohen
Community Credit
Community Health Charities, Minnesota
Marilyn Conlon
Consulting Radiologists, Ltd.
Judith and Rodney* Cooperman
Dorothy* and David* Dalquist
Judy McMahon and James Daniel*
Col. Thomas* and Frances* Davis
Julia* and Kenneth* Dayton
Theodore Deikel
Deikel Family Foundation
Janice and William Dircks
Ernie Dorn Sr.* and Beverlee Dorn*
Ernie Dorn III and Mary Dorn
Andrew Duff
Dolores* and Joseph* Durda
Jaye* and Betty* Dyer
Eagan Lions Club
Frazier Eales III, MD and Heidi Eales
Joanne and William Edlefsen
Robert Emery Jr., MD and Ann Emery
Ernst & Young
Judy and James* Fetterly
JoAnn and Gary Fink
First Bank National Association
Barbara Forster and Larry Hendrickson
Frederick O. Watson Foundation
Mama and James* Fullerton
William and Penny George
George Family Foundation
Fredarick Gobel, MD and Suzanne Gobel
Nancy and Robert* Goldberger
Herbert and Judy* Goldenberg
Irv Goldenberg, MD and Jeanne Goldenberg
Donald and Therese Goldfus
John Goodman*
Kevin Graham, MD and Irene Graham
James Grantman*
Greater Metro Auto Dealers Association of MN
Great River Energy
Groves Foundation
Margie and Richard* Haag
Nancy Harris Robertson
Robert Hauser, MD and Sally Hauser
Hawkins, Inc.
Howard* and Helen* Hawkins
Hearst Foundations
Douglas Heltne
Louis and Kathrine Hill
Hoechst Marion Rousel, Inc.
Gary Holmes
Mary Holmes
Holmes-CSM Family Foundation
Horton
Elizabeth Howell
Hubbard Broadcasting, Inc.
Russell and Margaret Huffer
International Dairy Queen
Jack J. Jorgensen Charitable Trust
C. Charles Jackson*
Jacobs Management Corp.
Benjamin and Patricia* Jaffray
James and Chris Renier Fund of The Minneapolis Foundation
James Ford Bell Foundation
John W. Mooty and Jane N. Mooty Foundation Trusts
Jay F. and Betty F. Dyer Foundation
Joyce* and Jim* Jennings
Elizabeth Johnson MD and Joel Johnson
John W. Mooty and Jane N. Mooty Foundation Trusts
Sally Jorgensen, MD and Charles Jorgensen, MD
Joseph Durda Foundation
Lyle Joyce, MD and Tina Joyce
James and Mary Judt
Thomas Keller III and Victoria Keller
William Kelly*, MD and Claire Kelly
Linda and Jerry* Kiernan
Janet King*
Michael King, MD and Peggy King
Laura Kiser and Joseph Kiser*, MD
Alexandra Klas Robert Klas Sr.*
Barbara and David* Koch
Arthur* and Emma Jean* Kydd
Rita and John* Lamoureux
Joseph and Donna Langer
Dan and Joanne Lastavich
Don and Jean Lein
Jean* and Laurence* LeJeune
John Lesser, MD and Julie Lesser, MD
Lifetouch, Inc.
Randy and Dale* Lindquist
Jo-Ann Lindsay and William Lindsay*, MD  
Terrence Frederick Longe MD and  
Barbara Jean Longe  
Thomas Lowe Sr. and Mari* Lowe  
Ann Lowry, MD and John Overton, MD  
Diana* and Donald* Lucker  
Russell Lund III  
Bruce and Debbie Lundeen  
Wallace* and Janis* Lundeen  
Lunds & Byerlys  
David and Anne Luther  
Dan and Cathy* Luther  
Rudy* and Shirley* Luther  
Marlene and John* Lynch  
Harvey and Carol Mackay  
James Madison, MD and  
Constance Madison  
Thomas and Marilyn* Madison  
Rose Mallinger*  
Mary Smith*  
Gail and Dennis* Mathisen  
Maurice and Mitzi Spiegel Family  
Philanthropic Fund  
Philip* and Patti* McElroy  
Cynthia McGarvey and Robert McGarvey* Jr.  
Rosalyn and Burton* McGlynn  
Richard McNamara*  
Kathleen and William McReavy  
Medtronic Foundation  
Patricia Meier Grundhofer and  
John Grundhofer*  
Meritex Foundation  
Midway National Bank  
Simon Milstein, MD and Renee Milstein  
Minneapolis Heart Institute  
Scott and Sheila Mitchell  
Michael Mooney, MD and Jodi Mooney  
John* and Jane* Mooty  
John and Susan Morrison  
Michael Mulligan  
Ellis and Robert* Naegele  
Stephanie and William Naegele  
Richard Nelson, MD and Kathleen Nelson  
Gail and ElRoy* Nemess  
Norma Neumann and Rolf Andreassen*, MD  
Ardelle Nicoloff and Demetre Nicoloff*, MD  
Mary and Thomas* Noble  
Pamela Nolan  
Stuart Nolan  
American Anesthesiology of Minnesota  
William Northrup III, MD and Joey Northrup  
Earl Olson*  
Vance and Darin Opperman  
Paper Warehouse, Inc.  
Troy and Lucia Paul  
Paul G. Allen Family Foundation  
Lucile* and Donald* Pearson  
Wesley Pederson, MD and  
Stephanie Pederson  
Raymond Plank*  
Carl Pohlad Jr. * and Eloise Pohlad*  
Burke* and Margaret* Potter  
Marc Pritzker, MD and Linda Hedemark  
Protective Insurance  
Noel and Angelina Rahn  
Lillian and Jerry* Rau  
Thomas and Qian Redmond  
Thomas Rempfer, Sr and Sandra Rempfer  
Christine Renier  
Richard M. and Sandra J. Schulze Family  
Fund of the Saint Paul Foundation  
Jonathan Rodgers, MD and Trish Rogers  
Harold Roitenberg*  
Ruth Roitenberg  
Rudy and Shirley Luther Fund of  
The Minneapolis Foundation  
Russell T. Lund Charitable Trust  
Hugh Schilling Sr. and Margaret Schilling*  
Dick and Micki Schneider  
Schneider (USA), Inc.  
Maureen and Richard Schulze  
Raymond* and Marie* Schweigert  
Sandra and David* Sherman  
John and Jane* Sieff  
Sieff Family Foundation  
Stephanie Simon  
Gail and Eugene* Sit  
Sit Investment Associates Foundation  
Mary Smith*  
Maurice and Mitzi Spiegel Family  
Philanthropic Fund  
Maurice* and Mitzi* Spiegel  
Jack and Elva* Spillane  
Spring Lake Park Lions Club  
Jayne Mondello and Gary St. Marie*  
Glady*s and Clai*r Strommen  
Lee and Louise Sundet  
Tapemark  
TCF Foundation  
Barbara and Bruce* Telander  
Mary and Jon* Thesenga  
Thrivent Financial  
Twin Cities Heart and Lung  
UBS Financial Services Inc.  
UBS Financial Services Inc.— CBM Group  
Robert Van Tassel, MD and Betty Van Tassel  
Varitronic Systems, Inc.  
Venture Solutions  
Thomas Von Rueden, MD  
John von Steinbergs  
Maxine and Winston* Wallin  
Wallin Foundation  
W. Shelley* and Virginia* Walsh  
Walter G. Anderson, Inc.  
Kathleen Wanner and William Wanner Jr.  
Beverly and Frederick O. Watson  
David Weiner*  
Lucille Wellington*  
Marilyn Jean and Sheldon* Wert  
Dewey* and Mary Kay* White  
Shirley and Roger* Wikner  
Max* and Helen* Winter  
Penny and Mike* Winton  
Judith and Michael* Wright  
Lowell and Norma* Zitzloff  
*Noting deceased, prior to date of publication
2021 DONOR RECOGNITION

$2,000,000+
Allina Health
$1,000,000+
Anonymous
Ray* and Shirley* Bentdahl
Margaret and Tom Johnson

$500,000+
Anonymous
Frank J. and Eleanor A. Maslowski
Charitable Trust

$250,000+
Michael and Glenda Dubes
$100,000+
Carole and Glenn Bolles
Boston Scientific Corporation
Paula and Craig Evanich
Joseph F. and Mary M. Fleischhacker
Family Foundation
Medtronic plc
Sprint Fidelis Settlement Fund
Paula and Craig Evanich

$50,000+
Anonymous (2 gifts)
American College of Cardiology (ACC)
Anonymous Fund of
The Minneapolis Foundation
Mary Ann and Looe Baker III
F. Bruce Cohen and Laura Friedlander
Cornwall Foundation
Robert and Marilyn* Davidson
Edwards Lifesciences
Carolyn and Peter Pierce
Peter F. Pierce, Jr. Revocable Trust
Robert and Allene Sayre
Society for Cardiovascular Angiography
and Interventions (SCAI)

$25,000+
Abbott Laboratories
Aetna Inc.
Kerry and Scott Bader
Estate of Gloria* and Gerald* Cessna
Gary and Sue Ellis
Gary and Sue Ellis Charitable Fund
(Schwab Charitable)
Kay and Gerald Erickson
KG Foundation
Jerome and Charlotte Golinvaux
Jerry and Charlotte Golinvaux Family Fund
(Bank of America Charitable Gift Fund)
Jiselle and Gregory Graves
Graves Family Charitable Fund
Charles and Anne Luther
Daniel Spiegel and Marilyn Jax
John Turner

$10,000+
BioStable Science and Engineering, Inc
Allan and Stacey Bly
Bly Family Charitable Foundation
(Minneapolis Foundation)
Carlson Caspers
Gloria M. Cessna Transitional Trust
(Bremer Bank)
Judith and Rodney* Cooperman
Judith Cosentino and Louis Cosentino, MD
L&J Cosentino Family Fund
(Fidelity Charitable)
Bonnie Bottoms and Richard Erickson
Thom and Stephanie Gunderson
Thomas and Stephanie Gunderson Donor
Advised Fund (Schwab Charitable)
Harvey and Sharyl Hansen
Hansen Family Foundation
Sharon Hawkins
Sharon D. Hawkins Charitable Fund
Hopkins Youth Hockey Association
Caryn Ireland
Benjamin Jaffray
Mike and Cara Jennings
Mari and Thomas Lowe Sr.
Rudy and Shirley Luther Fund II of The
Minneapolis Foundation
Marie M. MacMillan Trust (Bremer Bank)
Susan and Edwin McCarthy
McCarthy-Bjorklund Foundation
Dick and Joyce McFarland
Dick and Joyce H. McFarland Family Fund of
The Minneapolis Foundation
John and Karen Meslow
Daniel and Linda Pelak
Dan and Linda Pelak Charitable Fund
Jody and Octavio Portu
Kate and Jerry Roehl
Roehl Foundation
William Ryerse
Marilyn and William Ryerse Donor
Advised Fund
Dianne McNinns Safley and James Safley
Renee and Jeffrey Steinle
Kathleen and Les Tune
Robert Van Tassel, MD and Betty Van Tassel
Carmen and Bruce Volkart
James & Jane Welch Foundation
Linda and Larry Wilford

$5,000+
Anonymous (2 gifts)
Abiomed, Inc.
Ben Bache-Wig, MD
Ben Bache-Wig Family Charitable Fund (RCF)
Jane and Walter Barry
Craig Bentdahl
Diana Walton Brashears
Carol and Conley Brooks Jr.
David Carver, DDS and Judith Carver

Carver Family Fund of the National Christian
Foundation
Shirley Chenard
Juleen Christopher, PhD and Edward
Bergmark, PhD
Christopher Bergmark Foundation
Ann and Michael Ciresi
Michael V. & Ann C. Ciresi Foundation
Brian Cohen
Rev. Peggy Durda Knapp*
Joseph Durda Foundation
Mary Ann and Joel Elftmann
Jim Fisher
Sheldon and Terrence Fleck
Terry and Sheldon Fleck Fund (American
Endowment Foundation)
Kristine and Mark Fortman
Fredrikson & Byron, P.A.
John Gabbert and Cristina Olvera
Charles A. Geer Family Fund of The
Minneapolis Foundation
Debbie and Larry Getlin
Fredarick Gobel, MD and Suzanne Gobel
Al and Sally Hanser
Hanser Family Foundation
Alfred Harrison and Ingrid Lenz Harrison
Marilyn and Donald* Henkel
Kit Dahl* and Deborah Hopp
Frank Horak
Dale and Wilma Johnson
Patrice Kloss and Rob Machalek
Lathrop GPM
Stephen and Judith Lewis
Stablish Foundation FBO John A. and
Karen J. Meslow Charitable Fund
Lori and Brian Milbrandt
Needham & Company
Needham Foundation Trust
(Fidelity Charitable)
Buzz and Carolyn Pierce Family Fund
of the Minneapolis Foundation
RBC Wealth Management
ReCor Medical, Inc.
Schwebel, Goetz, & Sieben
Deborah and Michael Stein
Steinle Family Fund of
The Minneapolis Foundation
Tune Giving Fund
United Health Foundation
Diana Walton Brashears Trust
David J. Weiner Foundation

$2,500+
Anonymous
Mary C. Dolan - The Longview Foundation
Linda and Mike Fitzerman
Patty and Bob Glorvick
Robert Hauser, MD and Sally Hauser
Blanche and Thane Hawkins
Hawkins Family Foundation
Janice and Richard* Hazen
Mary Ellen and D. William Kaufman
Ginny Kirby
Sheila and Steve Lieberman
Jane Phillips
Kelly Phillips Charitable Fund of the Lutheran Funds
David Roen
Cheryl and Arthur Rolnick
Bonnie and Thomas Schwabe
Marion and David Williams
$1,000+
Anonymous (2 gifts)
Ameren
Woodbury and Cynthia Andrews
Woodbury H. Andrews and Cynthia A. Andrews Donor Advised Fund
Schwab Charitable
Shirley and Albert Arendt
Betsy and Jim Backe
Backe Family Charitable Fund
Schwab Charitable
Linda and Robert Barrows
Trudy and Daniel Beranek
Jolene Billy
Cheryl and Greg Bjorklund
BMO Harris-Commercial Banking
BMO Harris-Wealth Management
Bristol-Myers Squibb Company
Brooks Resources Corporation
A. Oscar and Valerie Carlson
Oscar and Val Carlson Charitable Fund
Larry Carlson
Miles Cohen and Cheryl Durda-Cohen
Crown Bank
Carolyn and Alan Diamond
Jan and Earl Dick
Gary Domann and Brian Ellingson
Facebook Fundraiser
Judy and James* Fetterly
Fredrikson & Byron Foundation
Archelle Georgiou Feldshon, MD and Fredrikson & Byron Foundation
Judy and Gerald Madison
Deeptanshu Malik
Marbrook Foundation
Lee and Susan Martinson
John and Mary Anne Mauriel
Mauriel Family Foundation
James and Diane McCarthy
Jim and Diane McCarthy Foundation
Ralph and Janet Millerbernd
Paul and Marsha Mittendorff
Mittendorff Charitable Fund
Schwab Charitable
Marko Mrkonich
Music Finance Company
Jean and Dennis Nelson
Bonnie Niehaus
Northland Aluminum Products Inc.
Nordic Ware
Sandy and Patrick Oberembt
Eugene Ollila, MD and Julie Ollila
Harriet and S. Bartley Osborn
S. Bartley Osborn Family Charitable Trust
David Parry
Pfizer, Inc.
Tad and Cindy Piper
Tad and Cindy Piper Fund of The Minneapolis Foundation
Molly and Ronald Poole
Molly and Ronald Poole Family Fund of The Minneapolis Foundation
Berta and Michael Porterfield
Gary and Susan Rapaport
Gary and Susan Rappaport Family Charitable Fund
Kevin and Trudy Rautio
Cindy and John Resman
Point Forward Communications
Howard and Patricia Rethemeier
Margaret Riebe
Lisa Rotenberg
Lisa A. Rotenberg Fund
Rob and Renae Saunders
Nancy and Steve Schachtman
Steven C. Schachtman Revocable Trust
Forrest Schmidt
James and Char Schmuck
Senator Tina Smith and Archie Smith
Archie and Senator Tina Smith Donor Advised Fund
Jerry Steelman
Sustainable Cardiovascular Health Equity Development Alliance (SCHEDA)
Don Swanson
Donald F. Swanson Sr. Fund of The Minneapolis Foundation
Tradition Family Foundation
USI Insurance Services
Carol Walter
Eleanor and Fred Winston—The Longview Foundation
Edward Yoch
Charles Zaugg
Lowell Zizloff
$500+
Anonymous (5 gifts)
Joan Abbott and Karen Roehl
Kent and Amanda Adams
Kevin and Pat Adolf
Norma Neumann and Rolf Andreassen*
Rolf L. Andreassen Trust
Robert Bateman
Bateman Family Fund (Fidelity Charitable)
Adam Berman
Wayne Boike
Julie Borris
Kristen and Ryan Bowlds
Brian Buhl
Melissa Sweatt-Carberry and Bruce Carberry
Carol and Lynn Truesdell
Ramesh Chandan
Thomas and Karen Conboy
Conboy Family Fund
Minneapolis Foundation
Jeanne Corwin
Jeanne E. Corwin Revocable Trust
Mary Cress Berlowe
Sara and Wayne Criger
Carol and Christopher Dart
Warner Dart Legacy Fund (National Christian Foundation Twin Cities)
Mary and Ernie Dorn
James and Yvonne Dorsey
Theodore Erickson
Douglas Gorence
Desto Ketema and Jay Griep
William and Rita Griffin
Terry Guy
Bruce and Grace Haugen
Maia Hendel-Paterson
Anne and Matthew Hendrickson
Hohenstein Charitable Fund
Meghan and Russell Holmes
Robert Hoyler
Janssen Pharmaceuticals, Inc.
Liz Jensen
Tom Jensen
Gerhard Johnson
Steven Johnson and Susan Iverson
Johniver Family Charitable Fund

Continued on next page
Donor Recognition, continued

Microsoft
Myra Nagel
Ann and Norman Newell
Hugh Nierengarten
Susan & Hugh Nierengarten Donor
Advised Fund
Timothy and Dana O'Connor
Charles Olson
Nels Otto
David Perschau
David and Ellen Phelps
Porterfield Family
Fred and Phylis Radde
Ritz Family Foundation

Sally and Timothy Sawyer
Morton Silverman
Rhonda and James Smiley
Joan and Dale Statsman
Donald Swanson
Charles B. Sweatt Foundation
Vdyne, Inc.
Robert and Bonnie Vidlund
Ann Yoerg
Lowell and Norma Zitzloff Donor Advised Fund (American Bible Society)

ALLINA HEALTH MINNEAPOLIS HEART INSTITUTE® PHYSICIANS

Thank you to the physicians at the Minneapolis Heart Institute® who inspire us every day to accomplish our goal of creating a world without heart and vascular disease!

Raed Abdelhadi, MD
Richard Bae, MD
Courtney Jordan Baechler, MD
Ambareesh Bajpai, MD
Alan Bank, MD
Vinayak Bapat, MD
Mosi Bennett, MD
Thomas Biggs, MD
Steven Bradley, MD
Emmanouil Brilakis, MD
Richard Brody, MD
Joshua Buckler, MD
M. Nicolas Burke, MD
Durand Burns, MD
Barry Cabuay, MD
Alex Campbell, MD
Santiago Garcia, MD
João Cavalcante, MD
Edris Charaf, MD
Ivan Chavez, MD
Víctor Cheng, MD
Matthew Chu, MD
Daniel Couri, MD
Ranjan Dahiya, MD
James Davis, MD
Timothy Dirks, MD
Peter Eckman, MD

Eric Fenstad, MD
Thomas Flavin III, MD
Mark Fleming, MD
Björn Flygenring, MD
Robert Fraser, MD
Charles Gornick, MD
Mario Gössl, MD
Elizabeth Grey, MD
Nicholas Haglund, MD
Kevin Harris, MD
Brian Horst, MD
Mark Houghland, MD
Katarzyna Hryniewicz, MD
David Hurrell, MD
Desmond Jay, MD
Senthil Jayarajan, MD
Jeffery Jim, MD
Joseph Karam, MD
William Katsiyannis, MD
Kalie Kebed, MD
Akbar Khan, MD
Mohammad Khasawneh, MD
Thomas Knickelbine, MD
James Kolbeck, MD
Kristopher Krueger, MD
John Lesser, MD
David Lin, MD

Brian Mahoney, MD
Jesse Manunga, MD
Benjamin McKinley, MD
Daniel Melby, MD
Michael Miedema, MD
Brian Miller, MD
Aleem Mirza, MD
Michael Mooney, MD
JoEllyn Moore, MD
Arashk Motiei, MD
Karol Mudy, MD
Bilal Murad, MD
Sara Murray, MD
Marc Newell, MD
Thomas Nobrega, MD
Jeffrey Olson, MD
Matthew Olson, MD
Quirino Orlandi, MD
Manjunath Pai, MD
Michael Peterson, MD
Kamaleesh Pillai, MD
Anil Poulose, MD
Tarang Ray, MD
Henry Riter, MD
Peter Rusterholz, MD
Manpreet Sabharwal, MD
Nazifa Sajady, MD

Michael Samara, MD
Retu Saxena, MD
Erik Schelbert, MD
Jay Sengupta, MD
Salima Shafi, MD
Scott Sharkey, MD
Bassam Shukrallah, MD
Nedaa Skei, MD
Paul Sorajja, MD
Robert Steffen, MD
Elliot Stephenson, MD
Peter Stokman, MD
Craig Strauss, MD
Benjamin Sun, MD
Ashena Afam Tamene, MD
Chuen Tang, MD
Xiaoyi Teng, MD
Norma Thiessen, MD
Jessica Titus, MD
Jay Traverse, MD
Elizabeth Tuohy, MD
Raymond Underwood, MD
Pierce Vatterott, MD
Yale Wang, MD
John Zakaib, MD
Peter Zimbwa, MD

MINNEAPOLIS HEART INSTITUTE FOUNDATION BOARD OF DIRECTORS

The MHIF Board of Directors is responsible for governance of all aspects of the foundation's organization, operations, policies and mission.

Jason Alexander, MD
Lee Arostegui, MD,
ANFW Representative
Ben Bache-Wig, MD
Mosi Bennett, MD
Craig Bentdahl
Ray Bentdahl*, Emeritus
Kristen Bowlds
Conley Brooks
Juleen Christopher, PhD
Sara Criger, Allina Representative
Christopher "Kit" Dahl*,
ANFW Representative
Kristine Fortman, PhD, Chief Executive Officer; Ex Officio
Lawrence Getlin
Kevin Graham, MD, Emeritus
Gregory Graves, Treasurer
Thomas Gunderson, Past Chair
Robert Hauser, MD
Sharon Hawkins
David Hurrell, MD
Carol Huttner
Benjamin Jaffray
Jerald Johnson
William Katsiyannis, MD

Thomas Keller III, Emeritus
James King
Virginia "Ginny" Kirby
Patrice Kloss
Richard Meyer,
ANFW Representative
Lori Milbrandt
Marc Newell, MD
Hugh Nierengarten
Stuart Nolan, Emeritus
Michael Peterson, MD
Raymond Plank*, Emeritus
Cheri Rolnick

Retu Saxena, MD
Scott Sharkey, MD, President and Chief Medical Officer
Jeffrey Steinele, Chair
Benjamin Sun, MD
Jay Traverse, MD
Robert Van Tassel, MD, Emeritus
Sheldon Wett*, Emeritus
Raymond Yu, MD, Secretary

*Noting deceased, prior to date of publication
MESSAGE FROM THE CHAIRMAN

I am honored and grateful to serve on the board of an organization that was founded with a vision to think big in advancing cardiology research while maintaining a passionate focus on every patient. The groundwork laid by Dr. Robert Van Tassel and the other founders 40 years ago created the Minneapolis Heart Institute Foundation® (MHIF) and the platform through which the entire team works together to create a world without heart and vascular disease.

From that early vision, MHIF developed into a cardiology research powerhouse, harnessing the brilliance and dedication of our team to advance groundbreaking technologies such as transcatheter valves and advanced diagnostic imaging. We created new care pathways to save lives like the Level 1 program. We thought holistically and measured outcomes based on how our patients live their lives through the Heart of New Ulm study. Through countless examples, our team has advanced the science of cardiovascular care.

We remain committed to paving the way for future generations. We have one of the best cardiology internship programs in the country offering aspiring medical students the opportunity to be part of world-class research, scientific publications, and presentations at scientific conferences. We have global reach through an international scholars program and we do all of this while publishing more than 250 scientific papers every year. In line with the importance of thinking big, more is on the horizon!

I'm proud to be on the Board, and this year we will build a strategic plan that drives impact in the next three years. I see many opportunities for MHIF leadership – in imaging and the novel use of artificial intelligence for diagnostics, as well as rethinking care delivery platforms to ensure health equity across patient populations. MHIF will also continue to lead through the science centers and protect and strengthen our partnership with industry partners to drive technology innovation.

I have been touched directly by the world-class advances made possible by MHIF as I’ve witnessed my dad’s heart journey. Our family is beyond grateful for the research that allows him to live life to the fullest and for the miracles and day-to-day “wins” that come from constant dedication to asking how we can do better for patients.

To our community, thank you for your steadfast support of a mission that challenges and improves cardiovascular care and outcomes for patients and their families around the world.

Jeffrey Steinle
Chair, Minneapolis Heart Institute Foundation Board of Directors
2021 Statement of Activities

REVENUES

<table>
<thead>
<tr>
<th>Source</th>
<th>Percent</th>
<th>Operations</th>
<th>Funds with Time or Purpose Restrictions</th>
<th>Endowments</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contributions</td>
<td>27%</td>
<td>$4,486,247</td>
<td>$3,194,153</td>
<td>$21,827</td>
<td>$7,702,227</td>
</tr>
<tr>
<td>Grants</td>
<td>1%</td>
<td>225,044</td>
<td>345,043</td>
<td></td>
<td>570,087</td>
</tr>
<tr>
<td>Research Study Revenues</td>
<td>33%</td>
<td>5,398,807</td>
<td></td>
<td></td>
<td>5,398,807</td>
</tr>
<tr>
<td>Investment Gain</td>
<td>0%</td>
<td>7,791</td>
<td>667,222</td>
<td>2,568,161</td>
<td>3,243,174</td>
</tr>
<tr>
<td>Net Assets Released from Restrictions</td>
<td>18%</td>
<td>3,049,543</td>
<td>(3,049,543)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Net Assets Released – Endowment Earnings</td>
<td>5%</td>
<td>770,085</td>
<td></td>
<td>(770,085)</td>
<td></td>
</tr>
<tr>
<td>Other Revenues</td>
<td>16%</td>
<td>2,616,874</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Total Support and Revenues</strong></td>
<td></td>
<td>$16,554,391</td>
<td>$1,156,875</td>
<td>$1,819,903</td>
<td>$19,531,169</td>
</tr>
</tbody>
</table>

EXPENSES

PROGRAM SERVICES

<table>
<thead>
<tr>
<th>Service</th>
<th>Percent</th>
<th>Operations</th>
<th>Funds with Time or Purpose Restrictions</th>
<th>Endowments</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Education</td>
<td>3%</td>
<td>$411,038</td>
<td></td>
<td></td>
<td>$411,038</td>
</tr>
<tr>
<td>Research</td>
<td>65%</td>
<td>8,452,174</td>
<td></td>
<td></td>
<td>8,452,174</td>
</tr>
<tr>
<td><strong>Total Program Services</strong></td>
<td></td>
<td>$8,863,212</td>
<td></td>
<td></td>
<td>$8,863,212</td>
</tr>
</tbody>
</table>

SUPPORTING SERVICES

<table>
<thead>
<tr>
<th>Service</th>
<th>Percent</th>
<th>Operations</th>
<th>Funds with Time or Purpose Restrictions</th>
<th>Endowments</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Administration</td>
<td>21%</td>
<td>$2,796,404</td>
<td></td>
<td></td>
<td>$2,796,404</td>
</tr>
<tr>
<td>Fundraising</td>
<td>11%</td>
<td>1,444,147</td>
<td></td>
<td></td>
<td>1,444,147</td>
</tr>
<tr>
<td><strong>Total Supporting Services</strong></td>
<td></td>
<td>$4,240,551</td>
<td></td>
<td></td>
<td>$4,240,551</td>
</tr>
<tr>
<td><strong>Total Expenses</strong></td>
<td></td>
<td>13,103,763</td>
<td></td>
<td></td>
<td>13,103,763</td>
</tr>
<tr>
<td>Change in Net Assets</td>
<td></td>
<td>$3,450,628</td>
<td>$1,156,875</td>
<td>$1,819,903</td>
<td>$6,427,406</td>
</tr>
</tbody>
</table>

OPERATING REVENUES

- Contributions 27%
- Grants 1%
- Research Study Revenues 33%
- Net Assets Released – Endowment Earnings 5%
- Net Assets Released from Restrictions 18%
- Other Revenues 16%

OPERATING EXPENSES

- Fundraising 11%
- Education 3%
- Research 65%
- Administration 21%
### 2021 Balance Sheet

**ASSETS**

<table>
<thead>
<tr>
<th>Item</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cash and Cash Equivalents</td>
<td>$11,124,872</td>
</tr>
<tr>
<td>Investments</td>
<td>33,506,515</td>
</tr>
<tr>
<td>Contributions Receivable</td>
<td>88,620</td>
</tr>
<tr>
<td>Pledges Receivable (net)</td>
<td>7,407,973</td>
</tr>
<tr>
<td>Other Receivables (net)</td>
<td>2,927,293</td>
</tr>
<tr>
<td>Other Assets</td>
<td>281,296</td>
</tr>
<tr>
<td>Fixed Assets (net)</td>
<td>1,767,450</td>
</tr>
<tr>
<td><strong>Total Assets</strong></td>
<td><strong>$57,104,019</strong></td>
</tr>
</tbody>
</table>

**LIABILITIES**

<table>
<thead>
<tr>
<th>Item</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accounts Payable</td>
<td>$392,766</td>
</tr>
<tr>
<td>Accrued Payroll</td>
<td>633,536</td>
</tr>
<tr>
<td>Accrued Pension</td>
<td>444,377</td>
</tr>
<tr>
<td>Other Accrued Expenses</td>
<td>552,619</td>
</tr>
<tr>
<td>Deferred Rent</td>
<td>948,293</td>
</tr>
<tr>
<td>Deferred Revenues</td>
<td>401,948</td>
</tr>
<tr>
<td><strong>Total Liabilities</strong></td>
<td><strong>$3,373,539</strong></td>
</tr>
</tbody>
</table>

**NET ASSETS**

<table>
<thead>
<tr>
<th>Item</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Without Donor Restrictions</td>
<td>$12,844,788</td>
</tr>
<tr>
<td>With Donor Restrictions</td>
<td>40,885,692</td>
</tr>
<tr>
<td><strong>Total Net Assets</strong></td>
<td><strong>53,730,480</strong></td>
</tr>
<tr>
<td><strong>Total Liabilities and Net Assets</strong></td>
<td><strong>$57,104,019</strong></td>
</tr>
</tbody>
</table>

---

We made an exhaustive search of our records to ensure inclusion of names on all of the lists, including founders, donors and involved relations. Please contact Maggie Forster if you notice an omission or error in the listings at donorrelations@mhif.org or by calling 612-863-7346.
PROUD OF A STRONG PARTNERSHIP

CREATING A WORLD WITHOUT HEART AND VASCULAR DISEASE