In 1982, a group of cardiologists from Minneapolis Heart Institute® (MHI®) at Abbott Northwestern Hospital recognized that maintaining the finest patient care required an enduring commitment to cardiovascular research and education. Those physicians founded the Minneapolis Heart Institute Foundation® (MHIF). Today, MHIF is one of the premier nonprofit cardiovascular and population health research centers in the country.

Our mission is broad: to improve people's lives through the highest-quality cardiovascular research and education. We are realizing that goal in many ways – through our research on topics ranging from heart rhythm disorders to heart failure to vascular diseases, as well as through clinical trials of new devices and medications. We also focus on prevention, sharing successes of the Heart of New Ulm Project and conducting research into new and innovative heart disease prevention strategies. Finally, we’re translating our groundbreaking research to practice through our educational programs for interns, physicians, and community health leaders.

The following pages highlight some of our key accomplishments in 2014. We achieved so much more than we could begin to fit in this report so please visit our website, www.mplsheart.org, to learn more.
When the Minneapolis Heart Institute Foundation (MHIF) was formed in 1982, the founding cardiologists set one lofty goal: to achieve their vision of creating a world without heart disease.

Today, our commitment to pioneering cardiovascular research is just as strong as it was 33 years ago. Our team of physicians and researchers is world-renowned and admired for its expertise and innovation in the field of cardiology. This collaborative approach allows researchers at MHIF to identify life-saving therapy options for individuals with cardiovascular disease.

Every MHIF employee is passionate and committed to this vision. Each also knows the success in prevention and treatment of cardiovascular disease is rooted in the work they do every day. Our highly collaborative team accomplishes demanding research protocols while also finding time to interact with the individuals participating in the 175 studies currently in progress. This dedication is exceptional and is a distinguishing characteristic of our organization.

Last year alone MHIF researchers produced more than 120 peer-reviewed publications and 150 presentations, many of which reached international acclaim. Our dedication to prevention of heart disease is nowhere more evident than in our Hearts Beat Back®: The Heart of New Ulm project, which received national recognition in 2014 and serves as a model for replication. Our professional education is second to none providing more than 10,000 hours of education to physicians, nurses, and allied staff.

Our future is bright, the team is in place, and momentum is building. We are proud of our many successes, yet look forward to working tirelessly until we achieve our goal of a world without heart disease.

Sincerely,

Scott Sharkey

Scott W Sharkey, MD, FACC
President and
Chief Medical Officer
2014 Accomplishments

Research Teams Build Quality and Efficiency
MHIF researchers worked on more than 175 studies in 2014, including 31 new sponsored trials and 30 new investigator-initiated trials. This helped MHIF maximize research capacity for the year.

MHIF Continues to Invest in Compliance
In 2014, MHIF hired a new Director of Compliance and Clinical Regulatory Affairs and secured an outside compliance/IRB auditor to review practices and procedures, strengthening our ongoing commitment to securing strong practices and ensuring credibility.
Attendance Increases at Professional Education Events

MHIF provided 10,000 professional education hours in 2014 through conferences, Cardiology Grand Rounds and other trainings. More than 750 people participated in education events, a 23 percent increase from 2013. Our Connecting to Transform Communities Conference continued its success, attracting participants from 15 states.

Sharing Knowledge Gained Through Research

More than 120 peer-reviewed manuscripts and studies were published in 2014 — a 14 percent increase from 2013. In addition, MHIF researchers made 150 presentations at national and international scientific meetings.
Intern Program Alumni Achieve Success

By the end of 2014, there were 145 alumni of MHIF’s internship programs. Of that number, 28 percent are now practicing physicians, 17 percent are in other health care professions, and 55 percent are in medical school or other educational programs. The 2014 summer research interns were, like all before them, an exceptional group – four of the 13 interns went on to present at the American College of Cardiology’s Scientific Session.

Expertise in Cell Therapy Research

Research criteria for grants from the government are stringent. In 2014, MHIF, because of our quality research reputation and results, was awarded a grant from the National Institutes of Health to become part of the Cardiovascular Cell Therapy Research Network at the National Heart Lung and Blood Institute. Through this grant, our research work on cardiovascular cell therapies continues to expand to a variety of conditions. MHIF also created and presented an interactive training module in February 2014 as part of this exciting grant award.
Lotus Cardiac Valve System Implant Performed

MHIF Researchers performed two implants of the Lotus™ Cardiac Valve System at Minneapolis Heart Institute® at Abbott Northwestern Hospital, making MHIF the third research facility in the U.S. to perform Lotus valve implants. Both participants that received the valve were deemed too high-risk for traditional valve replacement surgery, but made full and fast recoveries after receiving Lotus implants.

World’s Smallest Pacemaker Implanted

MHIF was the first research facility in the Midwest to facilitate the implant of the Micra™ Transcatheter Pacing System, a tiny pacemaker that is about the size of a small vitamin! The size and design of the Micra allows the pacemaker to be implanted in a minimally-invasive procedure without a surgical incision. Unlike traditional pacemakers, it does not require the use of wires to connect to the heart, further minimizing the potential for complications.
Seth Ball  HYPERTROPHIC CARDIOMYOPATHY

When six-year-old Seth Ball’s hypertrophic cardiomyopathy (HCM) worsened, putting him in heart failure in January 2014, his parents had no choice but to fear the worst. They began carrying an automated external defibrillator with them everywhere, always anticipating the sudden cardiac arrest that can occur in HCM patients. But when a chance encounter – through a colleague of a family member – led them to MHIF and Dr. Barry Maron, all that changed. Dr. Maron advised the Balls that Seth needed a septal myectomy to remove the enlarged part of his septum. Through the coordination of MHIF’s HCM Center, Seth was connected to specialists who performed the surgery and implanted a cardioverter defibrillator (ICD), giving him a new lease on his young life.

Thanks to Dr. Maron’s pioneering work, life with HCM is no longer a game of chance for individuals like Seth.

Gerry Yumul  CORONARY ARTERY DISEASE

In late 2014, MHIF Marketing and Communications Specialist Gerry Yumul was named the winner of the third annual American College of Cardiology (ACC) “I am CardioSmart” contest, which aims to find people who are living well with heart disease and showcase their stories to inspire other patients.

Gerry’s story is truly an inspiring one. When he began to feel chest discomfort, he initially attributed the pain to stress. But when the knowledge he had gained at MHIF came into play, he realized that he needed to be tested. That turned out to be a very good decision, as Gerry was diagnosed with coronary artery disease and underwent bypass surgery.

“Being part of MHIF helped me pay attention to the signs and signals,” Gerry said. “Everyone needs to make sure that they are aware of heart disease symptoms and listen to them if they occur.”
Denise Leitz  LOSE IT TO WIN IT

Embarking on the journey toward better health wasn’t easy for Denise Leitz. But now, she has lost 40 pounds and is able to keep up with her 13 grandchildren. She said it’s all thanks to the support and motivation she’s received through the LOSE IT to WIN IT Community Health Challenge, part of Hearts Beat Back®: The Heart of New Ulm Project (HONU).

Denise’s weight struggle began with the birth of her first child in 1977. Three years ago, at the urging of her children, she made the decision to lose weight. “There is nothing worse than sitting on a bench because you can’t play with your grandchildren,” Leitz says. Making healthier food choices has been a big part of her success. Leitz also drinks plenty of water and stays active. “I don’t put off exercise anymore. It’s at the top of my list for the day,” she said. Leitz credits the HONU staff who took the time to explain the program, answer her questions and give her the confidence she needed to get started.

Anna Schu  LOTUS VALVE PATIENT

When Anna Schu learned that calcium had built up in her aortic heart valve, she thought that she didn’t have many options. Anna is 85 years old, and like many people her age, was not a good candidate for open heart surgery to repair her valve. But then, in late 2014, Anna learned about a clinical trial of the Lotus Cardiac Valve System being conducted by researchers at the Minneapolis Heart Institute Foundation (MHIF). The system would allow her valve to be replaced in a transcatheter aortic valve replacement (TAVR) procedure, which carries less risk and a shorter recovery time than traditional open heart surgery — vitally important for someone of her age and medical history.

Because of clinical trials conducted at MHIF, Anna will now be able to continue enjoying living her life to the fullest for many years to come.
When 90-year-old Betty Vaughn started experiencing exhaustion and shortness of breath, her doctor told her to just live with it. “It was not living,” she said. “It was existing.” She knew that something had to be done if she wanted to maintain her independence and quality of life. So Betty met with MHIF Research Cardiologist Dr. Paul Sorajja and was diagnosed with mitral valve regurgitation. Because of her age, however, Betty was deemed too high-risk for traditional open-heart surgery.

But there was another option. In a short, minimally-invasive surgery, Betty received a MitraClip implant through a small vein in her leg. The procedure was successful and she was home within 48 hours. That would not have been the case if she had undergone open-heart surgery. Just a month later, Betty felt fully recovered. “I’m living now,” she said. “I’m doing anything and everything I want.”

In 2014, an MHIF research coordinator received a call from her niece, who had recently learned that her husband, Curt Bolin, might need to have his leg amputated. Curt had popliteal artery entrapment syndrome, a rare vascular disease that restricted blood flow to his leg. Needless to say, this was devastating news for a young father.

In a remarkable coincidence, a scheduled educational talk on that very syndrome was soon taking place at MHIF. The coordinator attended the session, and then sought the advice of presenter Dr. Nedaa Skeik. That conversation led to an incredible collaboration. Dr. Jason Alexander of the Minneapolis Heart Institute® at Abbott Northwestern Hospital, a leading expert in this vascular condition, agreed to see Curt and ultimately performed treatment which saved his leg.
Heart of New Ulm POPULATION HEALTH

In July, Hearts Beat Back®: The Heart of New Ulm Project (HONU) and the New Ulm Medical Center were awarded the NOVA Award from the American Hospital Association. This prestigious award honors programs that focus on improving community health through effective community collaboration.

HONU was honored for demonstrating how hospitals and health organizations working with partners in the community can improve the health and wellness of the people and patients that hospitals serve. Only five NOVA Awards are given every year, so to receive the award was a tremendous honor.

Doug Limon RENEW STUDY PARTICIPANT

In 2014, Minneapolis Heart Institute Foundation’s first RENEW study participant literally got up and danced. Doug Limon was facing a poor quality of life. He had undergone surgery and all the interventions possible for Class 3-4 refractory angina. Doug experienced chest pain every day, and couldn’t participate in Native American community activities with his 4-year-old son. Knowing that he faced a life on medication to help manage the constant pain in his chest, he opted to participate in the RENEW program, a stem cell study that began at MHIF in 2012. Doug received placebo vs. cell injection aimed at stimulating new blood vessel growth in viable, non-damaged heart tissue. Twenty-four months later, his diagnosis has improved. His cardiovascular status has now changed to Class 1-2 refractory angina, he no longer has constant chest pain and, best of all, he can now dance within his community with his son!
Focus Areas For the Future

Hypertrophic Cardiomyopathy

Minneapolis Heart Institute Foundation’s Center for Hypertrophic Cardiomyopathy (HCM), one of the largest and most notable in the world, has played a key role in understanding and identifying treatments for the disease. The work, under the direction of Dr. Barry J. Maron, has transformed HCM from a disease with grim prognosis into a treatable disease with a mortality rate of 0.5 percent per year.

Effective treatment interventions include implantable defibrillators for prevention of sudden death (first applied to HCM patients at MHIF), surgical septal myectomy and heart transplant for advanced heart failure, and modern defibrillation and therapeutic hypothermia for cardiac arrest. Moving forward, MHIF’s HCM center continues to focus on improving the outlook for those with HCM.

Structural Heart and Valve Disease

At MHIF, our team of physicians from the Minneapolis Heart Institute® at Abbott Northwestern Hospital is hard at work conducting innovative and original research aimed at reaching the roughly one in three people with heart valve disease who are not receiving appropriate treatment.

In 2014, our research and physician teams were instrumental in studies of valvular heart disease, with participation in major trials of cutting edge treatments. Invited as faculty to major national meetings, our physicians gave more than 40 presentations. Education and research on these innovative and minimally invasive technologies provides hope for life-saving treatments with shortened recovery times. And for some people, who otherwise might be considered at high risk for traditional surgeries, new options now exist.
Women’s Heart Health

The mission of the MHIF Women’s Heart Health Program is to improve women’s heart health through education, cutting-edge research, clinical care and community programming. Our goal is to reach women at the right time with the right messages, programs and treatments.

One way we are doing this is through our BROACH study, or Broadening the Role of OBGYNs in Assessing Cardiovascular Health. Many women see an OBGYN as their sole primary care provider. By integrating cardiovascular screening as a standard of care at these visits, we can ensure more women are screened and treated.

In addition, MHIF is partnering with WomenHeart to conduct research evaluating the benefit of peer led support groups and exploring medication adherence among women living with heart disease.

Heart Disease Prevention

At MHIF, we believe that we are entering a new landscape where traditional care methods must be paired with a larger view of the surrounding forces that influence individual, population and community health. This is why we are moving beyond the clinic walls to identify risk and address health behaviors, socio-economic factors and the physical environment.

MHIF has long been a leader in studying how to improve population health through the Hearts Beat Back®: Heart of New Ulm Project and similar programs. Future initiatives include participation in trials of novel lipid-lowering agents, the establishment of registries to identify at-risk individuals, healthy lifestyle interventions, provider education and training, community capacity building and additional innovative evidence-based approaches to heart disease prevention. MHIF is committed to being at the forefront of determining the ideal methods for integrating new prevention guidelines, and to conducting groundbreaking research to measure their impact.
Hearts Beat On Society

The Hearts Beat On Society of the Minneapolis Heart Institute Foundation celebrates the vision of a world without heart disease, made possible by generous individuals who have created a lasting legacy by including the Foundation in their estate or financial plans.

Ms. Thelma Aaby*
Mr. Howard D. Anderson
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Mr. Michael Walsh and Mrs. Maureen Kucera-Walsh
Ms. Lucille S. Wellington*
Ms. Matilda Westerdahl*

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Honor and Memorial Gifts

MHIF received contributions in honor and memory of the following individuals in 2014.

In Honor of

Ms. Sarah Braun
Mr. Stephen Funk
Mr. Marvin Goldstein
Ms. Jennifer & Ms. Martha Hick
Mr. Harvey Mackay
Dr. Barry Maron

Dr. Barry Maron, Dr. John Lesser, Ms. Vicki Pink, and the care team
Dr. Richard Nelson
Ms. Patty Peterson
Mr. Timothy Sawyer
Ms. Laurie Ann Snow

Mr. Bruce Telander
Mr. Tom Tinkham
Dr. Jay Traverse
Mr. Sheldon and Mrs. Marilyn Jean Wert
Mr. Girma Wolde-Michael

In Memory of

Ms. Lorna Abdo
Mr. Mark “Sparky” Anderson
Dr. Rolf Andreassen
Mr. Jason E. Bass
Mr. Ronald and Mr. Larry Beckman
Mr. Virgil Beecher
Mr. Mike Belmore
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Mr. Donald Schwartz
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Ms. Glenda Strobush
Ms. LaVonne Utue
Ms. Betty VanderVegt
Ms. Margaret Williamson
Mr. Zip Ziemer

*Deceased
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$250,000+
- Abbott Northwestern Hospital Foundation

$100,000+
- Mrs. Dolores Du Toit
- James W. Grantman* Trust
- Estate of Mr. Richard Haag*
- The Lampert Foundation
- Mr. Thomas and Mrs. Mari Lowe
- Medtronic, Inc.

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- Community Health Charities/Community Health Charities Minnesota
- St. Jude Medical, Inc.
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- Mrs. Ann Bentdahl and Mr. Roger Smith

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- Mr. Michael Walsh and Mrs. Maureen Kucera-Walsh
- Well Foot and Ankle Institute Research Foundation
- Dr. Peter Zimbwa

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Mr. Frederick and
Mrs. Eleanor Winston

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*Deceased
Financial Information

Revenues

- Contributions: 23% $2,105,362
- Grants: 9% $763,256
- Special Events: 4% $368,633
- Research Study Revenues: 38% $3,423,083
- Licensing Fees: 9% $809,743
- Income from Services: 3% $242,862
- Investments/Income: 14% $1,258,189

Total Revenues $8,971,128

Expenses

- Education: 23% $2,183,693
- Research: 55% $5,259,662

Total Program Services $7,443,355

- Administration: 16% $1,595,587
- Fundraising: 6% $564,860

Total Supporting Services $2,160,447

Total Expenses $9,603,802
### Assets

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### Liabilities

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<td>Accrued Payroll</td>
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<td>Accrued Pension</td>
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<tr>
<td>Accrued Research Expenses</td>
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<td>Deferred Rent</td>
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<td>Deferred Revenue</td>
<td>$181,661</td>
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<td><strong>Total Liabilities</strong></td>
<td><strong>$1,806,624</strong></td>
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### Net Assets

<table>
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<tr>
<th>Description</th>
<th>Amount</th>
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<tr>
<td>Unrestricted</td>
<td>$5,959,668</td>
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<tr>
<td>Temporarily Restricted</td>
<td>$7,130,103</td>
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<td>Permanently Restricted</td>
<td>$13,170,172</td>
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<tr>
<td><strong>Total Net Assets</strong></td>
<td><strong>$26,259,943</strong></td>
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The Minneapolis Heart Institute Foundation is a proud member of Community Health Charities Minnesota, an alliance of 36 leading nonprofit health research and service organizations working to improve lives affected by chronic illness by investing in health research, services and education.
How Your Contribution is Invested

HEART AND VASCULAR RESEARCH
Improving Quality of Life
- Hypertrophic Cardiomyopathy
- Structural and Valve Heart Rhythm
- Cardiovascular Stem Cell Therapy
- Vascular and Endovascular Imaging
- Heart Transplant
- Diagnostic Catheterization and Coronary Therapeutics

POPULATION HEALTH
Building Healthier Communities
- Heart of New Ulm
- Heart Disease Prevention
- Women’s Heart Health

PROFESSIONAL EDUCATION
Educating the Future Generation
- Grand Rounds
- Conferences and Summits
- Intern Program

ADMINISTRATIVE/FUNDRAISING
Supporting our Mission
- Finance and Human Resources
- Marketing and Public Relations
- Fundraising Expenses

55%
17%
6%
22%
2014 Physicians and Board of Directors

Physicians - Minneapolis Heart Institute® at Abbott Northwestern Hospital and the Minneapolis Heart Institute Foundation

Adrian Almquist, MD
Alex R. Campbell, MD
Andrew Cragg, MD
Anil Poulose, MD
Barry Cabuay, MD
Benjamin Sun, MD
Björn Flygenring, MD
Casey Lawler, MD
Charles C. Gornick, MD
Chuen-Yin Tang, MD
Craig Strauss, MD
Daniel Lips, MD
Daniel Melby, MD
David Hurrell, MD
David Lin, MD
Desmond Jay, MD
Domenico Calcaterra, MD
Durand Burns, MD
Elizabeth Z. Grey, MD
Elliott Stephenson, MD
Frazier Eales, MD
Ivan Chavez, MD
James Furda, MD
James Madison, MD
Jason Alexander, MD
Jay H Traverse, MD
Jay Sengupta, MD
Jesse Manunga, MD
Jessica Titus, MD
JoEllyn Abraham, MD
John Bernhardson, MD
John Graber, MD (retired)
John Lesser, MD
Katarzyna Hryniewicz, MD
Kevin Harris, MD
Luis Pagan-Carlo, MD
M. Nicholas Burke, MD
Marc Newell, MD
Maria-Teresa Olvari, MD (retired)
Mark A. Houghland, MD
Matthew Chu, MD
Michael Miedema, MD
Michael Mooney, MD
Michael Samara, MD
Mosi K. Bennett, MD
Nedaa Skeik, MD
Norma Thiessen, MD
Paul Soraja, MD
Peter Alden, MD
Peter Stokman, MD
Peter Zimmbwa, MD
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Raed H. Abdelhadi, MD
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Richard Nelson, MD (retired)
Richard Y. Bae, MD
Robert Hauser, MD

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William Hession, MD
William Katsiyiannis, MD
Yale L. Wang, MD

Robert Hauser, MD
# 2014 Minneapolis Heart Institute Foundation Staff

<table>
<thead>
<tr>
<th>Name</th>
<th>Name</th>
<th>Name</th>
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<tbody>
<tr>
<td>Aisha Ahmed</td>
<td>JoAnne Goldman</td>
<td>Deepa McGriff</td>
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<tr>
<td>Theresa Arndt</td>
<td>Anna Griffin</td>
<td>Amy McMeans</td>
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<tr>
<td>Beth Barnes</td>
<td>Tammy Haas</td>
<td>Karen Meyer</td>
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<td>Gretchen Benson</td>
<td>Betty Jo Haggerty</td>
<td>Patricia Mitchell</td>
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<td>Charlene Boisjolie</td>
<td>Joy Hayes</td>
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<td>Jackie Boucher</td>
<td>Derek Hersch</td>
<td>Charles O’Hare</td>
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<td>Melissa Buescher</td>
<td>Melinda Huerta</td>
<td>Rachel Olson</td>
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<td>Deanna Bulthuis</td>
<td>Sara Jones</td>
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<td>Theresa Bunkers-Lawson</td>
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<td>Nadra Patterson</td>
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<td>Peg Demmer</td>
<td>Jennifer Krech</td>
<td>Raquel Pereira</td>
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<td>Deborah Diskerud</td>
<td>Shari Larsen</td>
<td>Rose Peterson</td>
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<td>Jackie Dosmann</td>
<td>Rebecca Lindberg</td>
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<td>Ashley Lyle</td>
<td>DeShaune Poe</td>
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<td>Jane Fox</td>
<td>Christine Majeski</td>
<td>Sybille Redmond</td>
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<td>Barry J. Maron, MD</td>
<td>Erin Rohne</td>
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<td>Ross Garberich</td>
<td>Hayley Matthews-Jones</td>
<td>Adam Rondeau</td>
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<td>Eva Zewdie</td>
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</table>
The Minneapolis Heart Institute Foundation was founded with the mission to improve people’s lives through the highest quality cardiovascular research and education. I am confident that our founders would agree that 2014 was another great year for MHIF.

We contributed greatly to the improvements in cardiovascular and vascular treatments. In fact, our clinical research expertise was sought in many important clinical trials, including some of the first implants of the Medtronic Micra™ pacemaker, the Portico™ Resheathable Transcatheter Aortic Valve and the Lotus Cardiac Valve.

We also made great strides in education. In 2014, with funding support from the National Institutes of Health, we created and launched a major stem cell training program. Through our summer research intern program, we provided 13 students with educational experiences that introduced them to the valuable role research plays in the practice of medicine. Four of our interns were selected to present their research at the American College of Cardiology’s Scientific Session.

Despite all of the cardiovascular disease diagnostic and treatment advancements in the past 32 years, it remains the number one cause of death for both men and women – more than all cancers combined. We celebrate our contributions to the knowledge of effective treatments but we know there is much more that must be done to improve outcomes.

To that end, we have expanded our efforts to studying prevention and the complicated dynamics of community health. In partnership with Allina Health and the city of New Ulm, MN and with financial support from many generous donors, we are performing one of the most comprehensive community health demonstration research projects ever initiated. Hearts Beat Back: The Heart of New Ulm Project is our effort to better understand the obstacles to good health and to demonstrate the effectiveness of various intervention methodologies. In 2014, the sixth year of the project, we were awarded the prestigious NOVA Award from the American Hospital Association. This project is a shining example of how MHIF is working diligently to improve people’s lives by performing research and sharing what we learn through education.

We are grateful to all who are helping us realize our vision of a world without heart disease. There is much more to be done. With your continued support and the unwavering dedication of our staff, board of directors and physicians at the Minneapolis Heart Institute, we will continue to make meaningful progress toward that goal. A heartfelt thank you!

Sincerely,

Jerry Johnson
Chair, Board of Directors
Minneapolis Heart Institute Foundation