



# PROJECT MY HEART YOUR HEART ANNUAL REPORT



Saving lives one heart at a time

# 2024

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***Our team presenting at the AHA November 2024***

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# OUR VISION

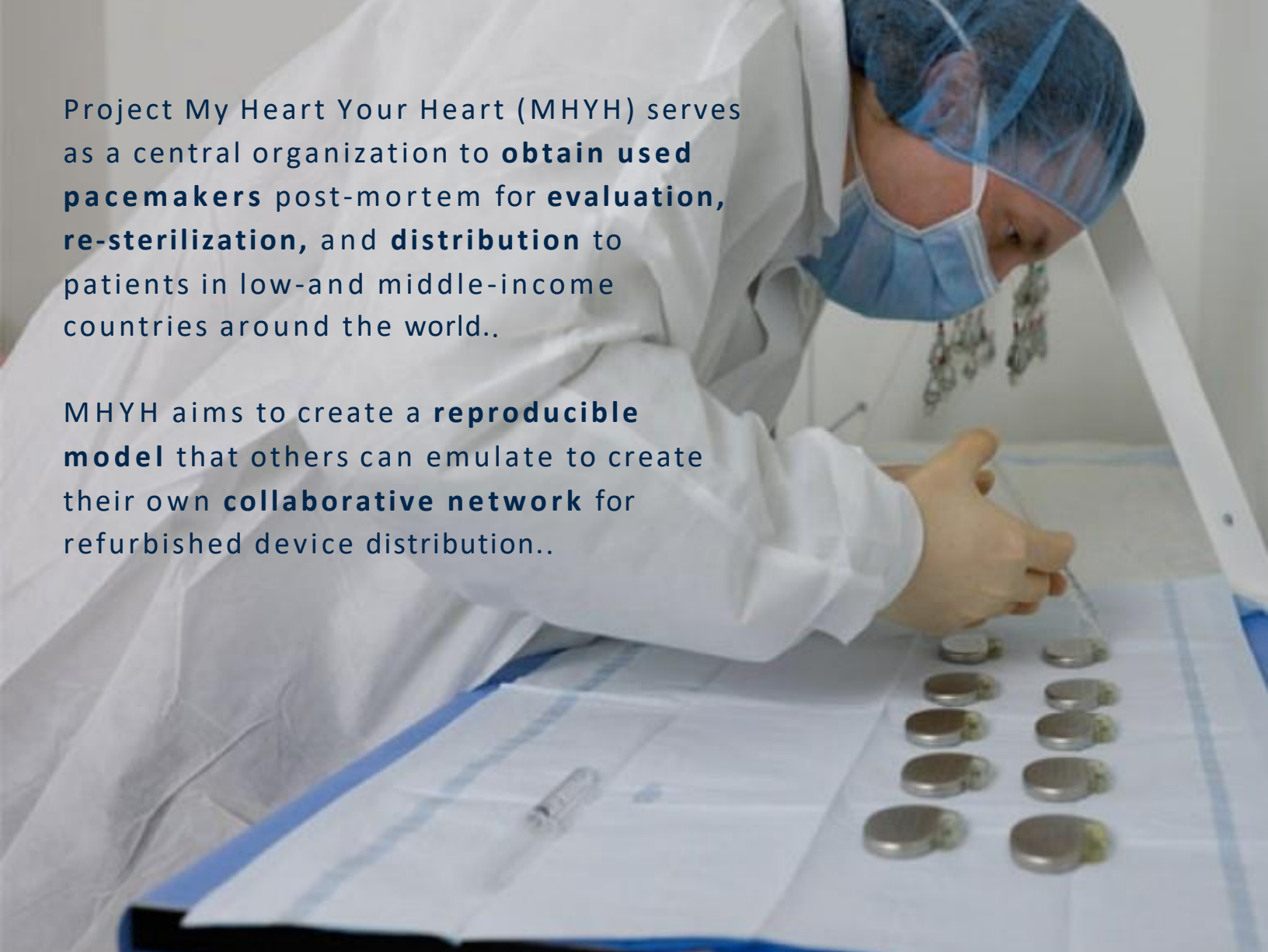
The vision for Project My Heart Your Heart began in 2009 when a patient asked how to best recycle the device that was explanted from his wife.



**Each year, over 1 million people worldwide die due to a lack of access to pacemakers and defibrillators.**

**Kim Eagle, M.D.**, Albion Walter Hewlett Professor of Internal Medicine, Professor of Health Management & Policy at the School of Public Health, and Director of the Frankel Cardiovascular Center, and **Timir S. Baman, M.D.**, former cardiology fellow, **founded Project My Heart Your Heart** at the University of Michigan Frankel Cardiovascular Center.

**Thomas Crawford, M.D.**, clinical professor of cardiac electrophysiology, has been the **principal investigator** of the randomized trial since 2012.



Project My Heart Your Heart (MHYH) serves as a central organization to **obtain used pacemakers** post-mortem for **evaluation, re-sterilization, and distribution** to patients in low-and middle-income countries around the world..

MHYH aims to create a **reproducible model** that others can emulate to create their own **collaborative network** for refurbished device distribution..

Project Manager Eric Puroll reconditions pacemakers at World Medical Relief.

**“The opportunity to work with so many partners, both near and far, to make pacemaker recycling a reality . . . that is a true privilege.**

**It is entirely appropriate that the University of Michigan Frankel Cardiovascular Center is at the forefront of this global initiative which, when fully developed, has the potential to save tens of thousands of patients worldwide.”**

**– Kim Eagle, M.D.,  
MHYH founder**

# MILESTONES

- ◆ Michigan Medicine (MM) IRB approves international clinical trial
- ◆ First patients enrolled in clinical trial
- ◆ MM IRB approves clinical trial site in Sierra Leone
- ◆ MHYH device is the first pacemaker ever implanted in Sierra Leone
- ◆ FDA approves device export to Nigeria, Ethiopia & Kenya

2015  
First FDA approval for export of reconditioned pacemakers

2015

2017  
Pacemaker testing suite completed at World Medical Relief & first donated devices tested

2017

2018

2019  
MM IRB approves clinical trial sites in Kenya and Nigeria

2019

2021

- ◆ MM IRB approves clinical trial site in Venezuela
- ◆ FDA approves device export to Mozambique
- ◆ First clinical trial patient enrolled at Port Harcourt, Nigeria

2022

- First clinical trial patients enrolled in Lasuth, Nigeria and Asuncion, Paraguay

2023

- 100th patient enrolled in clinical trial

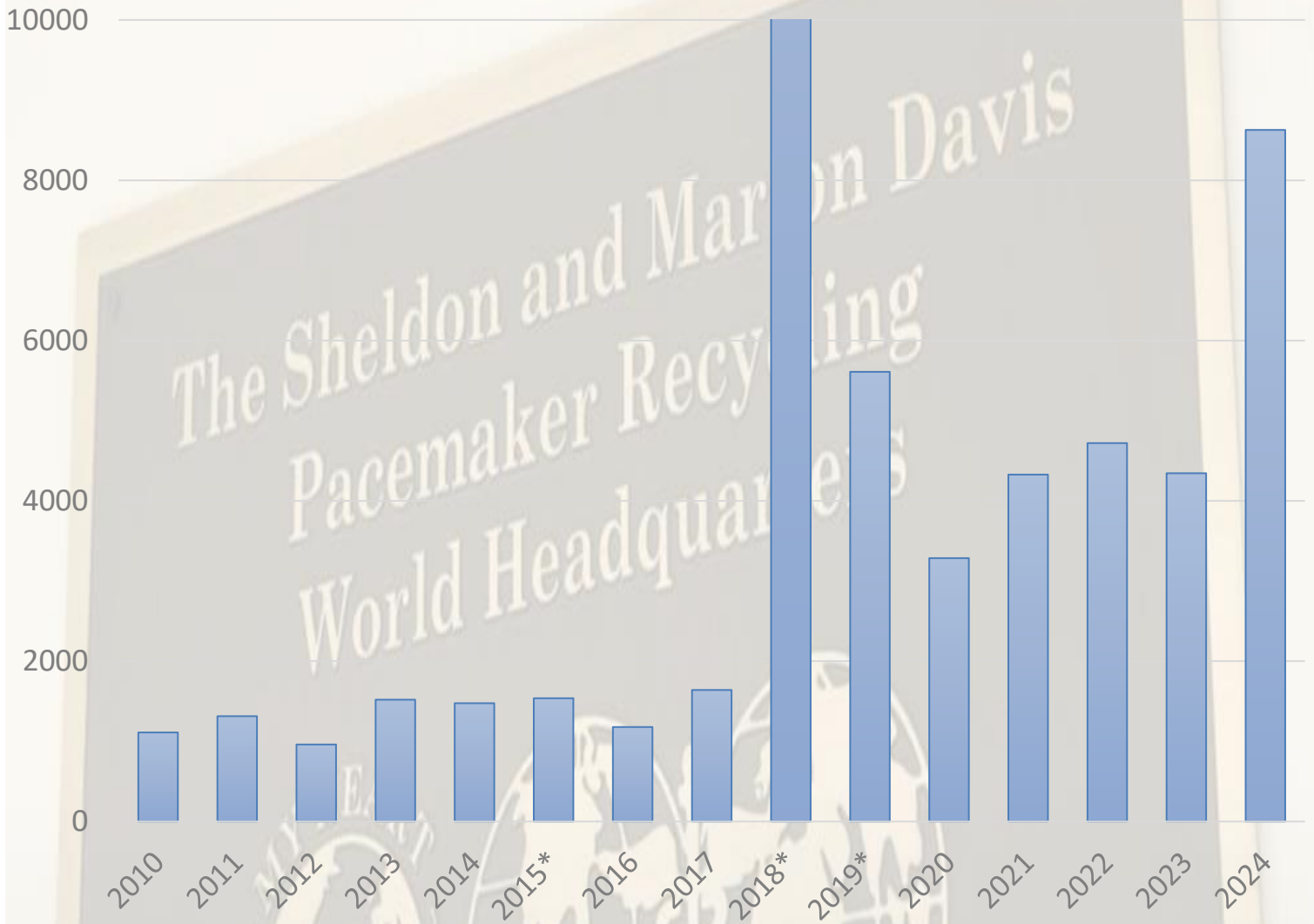
2024

- 250th patient enrolled in clinical trial
- *Presented Preliminary Results at the American Heart Association's Late-Breaking Science: Scientific Session*



# DONATED DEVICES

To date, MHYH has received over **62,000 used devices** from funeral homes, hospitals, private citizens, and our collaborators.



\* Received pallets of donated devices from Implant Recycling

Our program has been approved by the [Michigan Funeral Directors](#). We work with the funeral and crematory industry as well as individuals who wish to donate their devices.

Donated devices are shipped to World Medical Relief, where they are sorted by volunteers for testing.

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# ADVANCING MEDICAL RESEARCH

The [Frankel Cardiovascular Center](#) has been conducting research for over a decade to establish pacemaker and defibrillator reuse as a feasible, safe, and ethical means of delivering this life-saving therapy to patients with limited resources.

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*Dr Crawford presenting  
MHYH at the AHA  
November 2024*

Research for MHYH has led to over **two dozen publications** since 2009, including publications in:

**Journal of Interventional Cardiac Electrophysiology**

**Pacing and Clinical Electrophysiology (PACE)**

**Journal of Cardiovascular Electrophysiology**

**Heart Rhythm Society**

**Progress in Cardiovascular Diseases**

**Heart, a journal of the British Cardiovascular Society**

**Circulation, a journal of the American Heart Association**

**Promoting Cardiovascular Health Worldwide, a publication from Scientific American**

**Clinical Electrophysiology, a journal of the American College of Cardiology**

**World Journal of Cardiology**

**Nature Reviews Cardiology**

For access to our publications, please visit:  
[www.umcvc.org/conditions-treatments/publications](http://www.umcvc.org/conditions-treatments/publications)

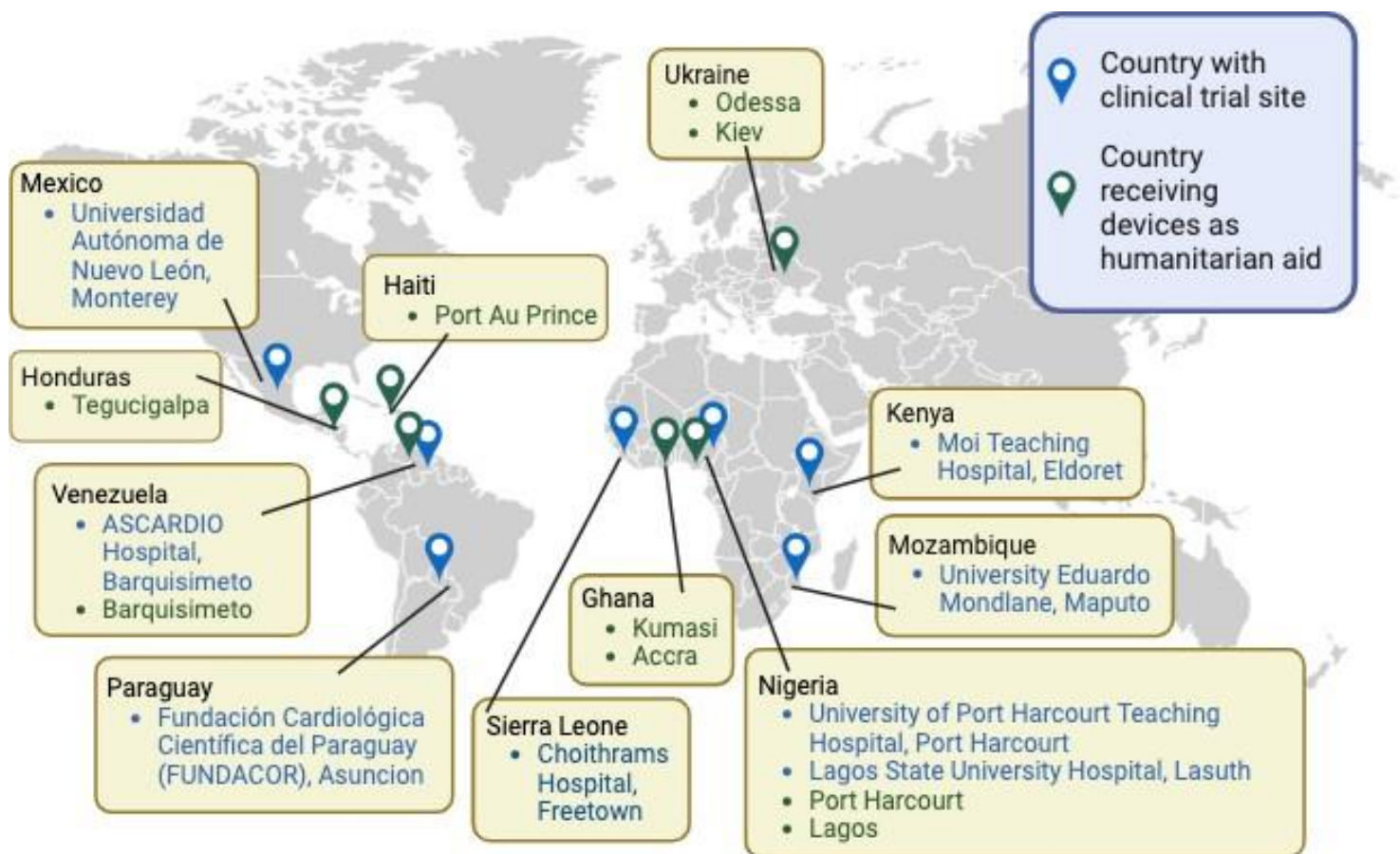
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# CLINICAL TRIAL

Project MHYH has received FDA and IRB approval to conduct a **randomized study** to show that **postmortem pacemaker reutilization** is a **safe and effective** means of delivering care.

To date, over **250 patients** across **7 countries** have been enrolled in our clinical trial and have received either a new or refurbished pacemaker.

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# OUR TEAM

<b>Founding Director</b>	<ul style="list-style-type: none"><li>• <i>Kim Eagle MD</i></li></ul>
<b>Project Director</b>	<ul style="list-style-type: none"><li>• <i>Thomas Crawford MD</i></li></ul>
<b>Project Managers</b>	<ul style="list-style-type: none"><li>• <i>Eric Puroll, B.S.</i></li><li>• <i>Constantina Alexandris- Souphis, R.N., B.S.N., B.S</i></li></ul>
<b>Statisticians</b>	<ul style="list-style-type: none"><li>• <i>Xiaokui Gu, M.A.</i></li><li>• <i>Chin-Wen Pai, M.S.P.H., Ph.D.</i></li></ul>
<b>Programmer</b>	<ul style="list-style-type: none"><li>• <i>Brian Shensky, B.S.</i></li></ul>
<b>IRB Specialists</b>	<ul style="list-style-type: none"><li>• <i>Patsy Bruenger, B.A.</i></li><li>• <i>Jolene Daniels</i></li></ul>
<b>Communications &amp; Development</b>	<ul style="list-style-type: none"><li>• <i>Kristy Demas</i></li><li>• <i>Noah Fromson</i></li><li>• <i>Nathaniel Tobi, Jr.</i></li></ul>
<b>Consultants</b>	<ul style="list-style-type: none"><li>• <i>AJ Hale, M.B.A., C.C.D.S.</i></li><li>• <i>Eva Kline-Rogers, R.N., N.P., M.S.N</i></li></ul>
<b>Dedicated Volunteers</b>	<ul style="list-style-type: none"><li>• <i>Dan Bochinski, R.N.</i></li><li>• <i>Michelle Bochinski, DNP, MHI, BSN, RN, CNRM, CNE, CNOR</i></li><li>• <i>Sharon Gadoth-Goodman, R.N.</i></li><li>• <i>Noah Klugman, Ph.D.</i></li><li>• <i>Lane Powell</i></li><li>• <i>Al Romero, M.D.</i></li><li>• <i>Patricia Sovitch, R.N., N.P., M.S.N.</i></li><li>• <i>Kevin Weatherwax, C.C.R.C. , C.C.R.A.</i></li><li>• <i>Kevin Wunderly, B.S.</i></li><li>• <i>United 2Heal</i></li></ul>

*Our team at American Heart Association Presenting initial findings Nov 2024*

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# OUR SUPPORTERS

We are grateful for the steadfast support of our donors, whose generosity and commitment provides us the resources to help heart patients around the world.

Sandra Arlinghaus, Ph.D. | William Brehm  
Douglas Colwell | Craig R. Davis  
Sheldon & Marion Davis | Rebecca Duffey | Kay Fuller  
Lindsay Hefter | Mary H. Jaffe | David Katcher  
Noah Klugman & Lane Powell | Sandra Lefkofsky  
Craig R. Sincock | Katharine B. Soper | Bonnie Upton  
Elizabeth Upton | The Hon. Frederick Upton  
Stephen Vlay, M.D. | Bradley Wasserman  
Wayne & Joan Webber Foundation | Steven Wolter

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A gift to MHYH advances health care in tangible and far-reaching ways.

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# OUR COLLABORATORS

MHYH is a collaboration between volunteers, physicians, funeral directors, the Frankel Cardiovascular Center, World Medical Relief, Implant Recycling, and NE Scientific.



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## CONTACT

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Michigan Medicine | MCORRP | MHYH

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Sheldon and Marion Davis Pacemaker Recycling World Headquarters

World Medical Relief | Project My Heart Your Heart |

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