



MMRF

Minneapolis Medical Research Foundation

The Past, Present and Future of MMRF

Ajay Israni MD, MS

Interim President, Minneapolis Medical Research Foundation
Renal Division Faculty, HHS



MMRF History

- Established in 1952, MMRF is one of the largest non-profit medical research institutions in the State of MN.
- The MMRF supports the work of over 200 MDs, PhDs, and other scientists conducting research on the Hennepin County Medical Center (HCMC) campus.
- In the 2012 integration between HCMC and Hennepin Faculty Associates (HFA), MMRF became the research subsidiary of HCMC.



MMRF Mission and Vision

Our Mission

Improving patient care and the health of our community through research and education.

Our Vision

A dynamic and responsive organization that serves the community through scientific excellence.



MMRF Values

Innovation – *discovering high impact solutions that promote health.*

Perseverance – *pursuing the answers to our questions wherever they lead.*

Teamwork – *creating meaningful partnerships with those that share our values.*

MMRF Governance

Members of the MMRF Board of Directors are accomplished and influential professionals with strong HCMC and community ties.

MMRF Board Members

Richard King, MD, PhD, AB, *Chair*

Janine Laird, JD, *Vice Chair*

Anne Murray, MD, MS, *Secretary/Treasurer*

Jason Baker, MD, MS, *MMRF Vice President*

William Heegaard, MD, MPH, *HCMC Chief Medical Officer*

Ajay Israni, MD, MS, *MMRF Interim President*

Derrick Hollings, CPA

Mark LeSage, PhD

James Miner, MD, *HCMC Chief of Emergency Medicine*

Raymond Sailer

Mary Tambornino

Jayant Parthasarathy, PhD

Devdatt Kurdikar, PhD, MBA

Dean Rustad, MBA, *HCMC patient*

Position/Affiliation

Professor, Dept of Medicine, U of MN (retired)

Executive Director, MN Justice Foundation

HCMC Physician, Geriatrics; Professor, U of MN

HCMC Physician, Infectious Disease and HIV; Assoc Prof, U of MN

HCMC Physician, Emergency Medicine; Professor, U of MN

HCMC Physician, Nephrology, Assoc Prof, U of MN

Chief Financial Officer, HCMC

Senior Investigator, Clinical Pharmacology, MMRF; Professor, U of MN

HCMC Physician, Emergency Medicine; Professor, U of MN

Finance Director of Provider Services, HCMC

Former Hennepin County Commissioner

VP - Innovation and R&D, United Health Group

Chief Executive Officer, Cardiac Science Corporation

Vice President of Finance, Medtronic



MMRF Accreditations

- MMRF's human subjects protection programs have been accredited by the Association for the Accreditation of Human Research Protection Programs (AAHRPP) since 2011.
- MMRF animal care programs have been accredited by the Association for Assessment and Accreditation of Laboratory Animal Care (AAALAC) since 1995.



MMRF Services and Support

- MMRF provides grants administration, accounting and compliance services, as well as maintains laboratories and animal housing.
- MMRF also invests in investigator support programs such as bridge funding, post-doctoral, and career development awards.



Alignment with the HCMC Mission

- MMRF's research focuses on areas of concern that disproportionately affect the HCMC patient population and represent particular strengths and opportunities for growth.
 - Acute Care/Trauma
 - Addiction Research
 - Health Services
 - HIV/Infectious Disease
- MMRF research provides a scholarly base to sustain HCMC's teaching mission (e.g. GME accreditation).
- MMRF research enhances HCMC's clinical mission (provides early access to innovative treatments, e.g. \$1 M for Hep C treatment).



MMRF Focus Areas

- MMRF research topics are diverse. In 2016 MMRF researchers published 251 articles in academic peer-reviewed journals.



Recent Focus Area Faculty Investments & Mentorship Focus

Clinical Research Scholar Appointments (aka White Paper awards)

2013 HIV/Infectious Disease: Dr. Jason Baker

2014 Health Services: Dr. Kate Vickery

2016 Trauma/Surgery: Dr. Amy Anne Lassig

2017 Health Services: Dr. Tyler Winkelman

2017 Addiction: Dr. Andrew Busch

4 Appointments promised to Chair of Medicine, 1 to Chair of Surgery



Post-doctoral Scholar Investments

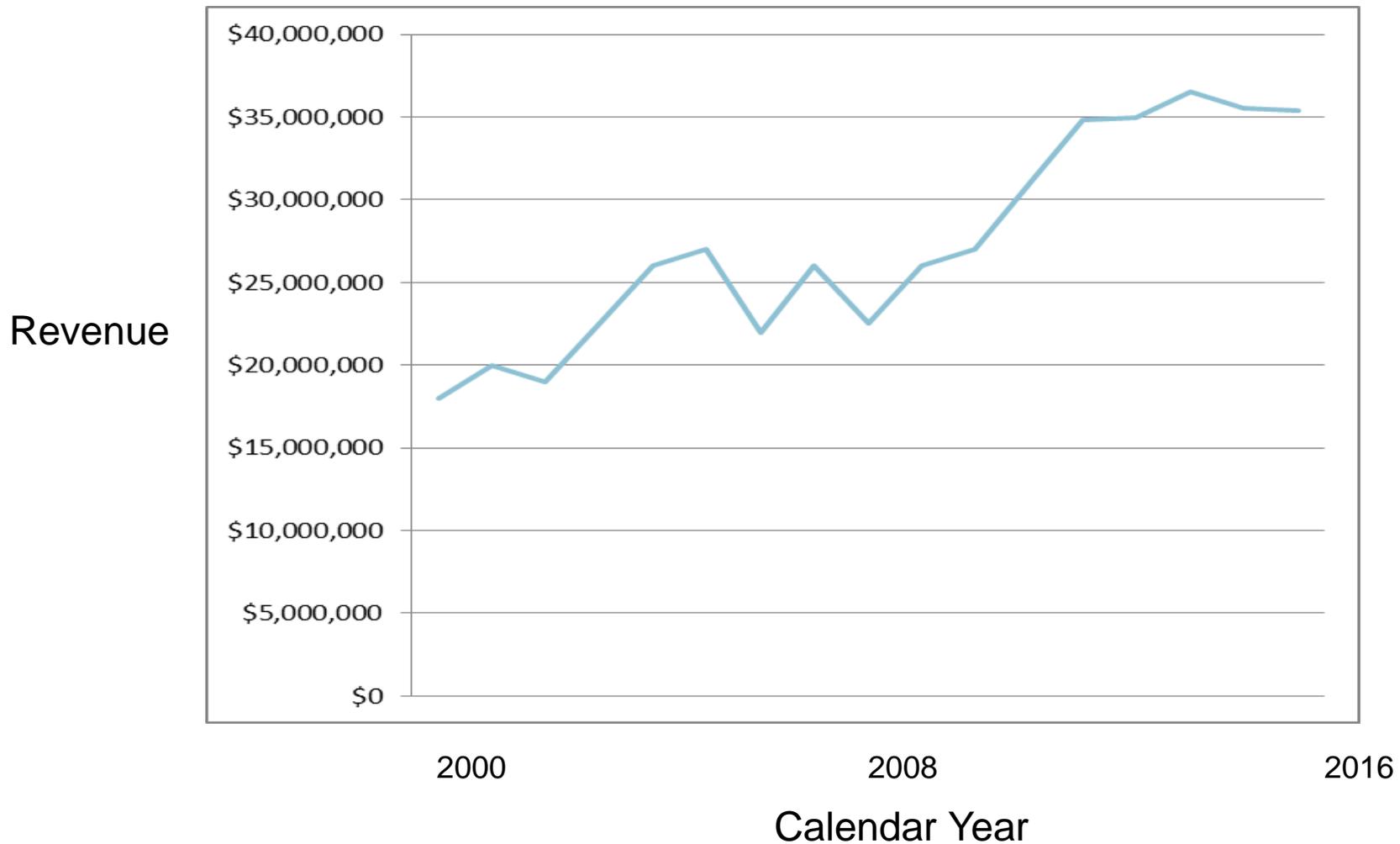
- The MMRF promotes the development of research in a variety of ways, including supporting post-doctoral positions for existing programs.
- The goal of the program is to provide partial salary support for post-doctoral investigators to support the establishment of independent careers at MMRF, while also sustaining and building existing MMRF programs.
- In 2016-2017 the MMRF supported two Post-doctoral researchers: one in Dementia research and one in Kidney Transplant research.



Award and Scholarly Activity

- Approximately 70% of MMRF's research awards came from federal sources in 2016.
- Of the almost 2,600 institutions receiving awards from the National Institutes of Health annually, the MMRF consistently ranks in the top 10% (rank #221 of 2,588 in 2016).
- In 2016, MMRF researchers published 251 manuscripts in academic peer-reviewed journals.

MMRF Total Revenues by Year





Current Program Highlights

- MMRF scientists are working to develop therapeutic vaccines for the treatment of oxycodone, hydrocodone, and heroin abuse and dependence.
- MMRF researchers are investigating the connection between dementia and chronic kidney disease.
- MMRF investigators are launching a pilot project with 16 transplant programs that will establish a registry of living donors, entitled the "Living Donor Collective", to follow long-term health outcomes after living donation.



Program Highlights continued

- The Minnesota Healthy Brain Initiative Study is exploring ways to improve classification of brain injury to make it easier to identify people who do not recover from their injuries.
- MMRF Infectious Diseases Researchers are at the front edge of efforts to understand the impacts of HIV on heart disease in low- to middle- income countries specifically as global efforts have expanded HIV treatment in sub-Saharan Africa.
- Early data from collaborations between MMRF and Hennepin Health suggest that Hennepin Health strategies are helping to improve patients' health, while reducing the number of Emergency Room visits and saving the government money.



Recent Enhancements to Collaboration with HCMC

- Established EPIC's Research Billing Functionality
- Enhanced Approval Process of Sponsored Research Proposals Submitted (Application for External Support Form)
- Better Identification of HCMC Clinical Resources on IRB Application (Resource Utilization and Coverage Analysis Checklist)



Approving Sponsored Research

Application for External Support Form

Human Subjects

Animal Use

Research Materials (Biological Safety)

HCMC Resources (refers to form for clinical research)

Conflict of Interest

Chief Signature on last page indicates departmental leadership approval to proceed



Approving Clinical Research

Resource Utilization and Coverage Analysis Checklist

Appendix A to IRB Application

Serves both to identify all hospital resources and determine if services can be billed to Medicare

Ensures that research personnel intending to access patient care services or data using EPIC have access

Chief Signature on IRB Application includes approval of Appendix A



Additional Alignment Projects underway with HCMC

- Common Intellectual Property/Innovation Management Pathways
- Joint Publications Policy
- Joint Endowed Chair Positions Policy



Looking Ahead

- Additional alignment with HCMC on Branding, Marketing, Communications, and Fundraising. Should authors mention MMRF, HCMC, UMN affiliation?
- Additional investments in Clinical Research Scholar and educational programs. Are there opportunities for fund raising for research and future cures?
- Consolidation of research in the Shapiro building to leverage existing resources that enhance and support the long-range strategic plans for the campus overall.
- Have we taken advantage of all the device and biomedical industry research opportunities in the area?
- How do I access MMRF resources?



Summary

- Research remains a part of HCMC's mission.
- Research endeavors are financially responsible.
- Successful at obtaining sponsored research funding, trajectory is good.
- Clinical research scholars are receiving mentoring. Incoming Chiefs are looking for such scholars to join their departments.



Where To Find More Info

<https://mmrf.org>

Email:
researchinquiry@mmrf.org

Thank you