## Health Sciences Overview

Oct. 25, 2023



### Delivering On Our Promise to Minnesota

Minnesotans benefit from UMN's breadth and depth of expertise across our health sciences schools and programs.



Our service extends across

the entire state

### **UMN** Health in Your Community



Caring for underserved communities



Community-partnered research, teaching, and engagement



Partnerships with health care providers across the state



### Improving Health Access Across Minnesota

Our health sciences schools partner with communities across the state to advance the health and wellbeing of all Minnesotans.

#### Examples include:



#### Rural Physician Associate Program

- Oldest program of its kind
- Goal: Increase the number of primary care physicians in rural Minnesota



#### **Mobile Dental Clinic**

- Brings care to people in places where dentistry is scarce
- Serves 1,000+
   Minnesotans a year



### Metropolitan Physician Associate Program

 Medical students learn how to effectively address the needs of underserved patients in urban communities

### Advancing Interprofessional Health Care

Collaborations among health professionals lead to improved patient outcomes. Unfortunately, current funding models don't adequately support interprofessional health care.

Our examples of interprofessional care include:



#### **Student-Run Free Clinics**

 Students from multiple health professions care for underserved populations



### Community-University Health Care Center

- State's first and oldest community health center
- Serves the medical/dental/ mental health care and social service needs for nearly 10,000 patients/year

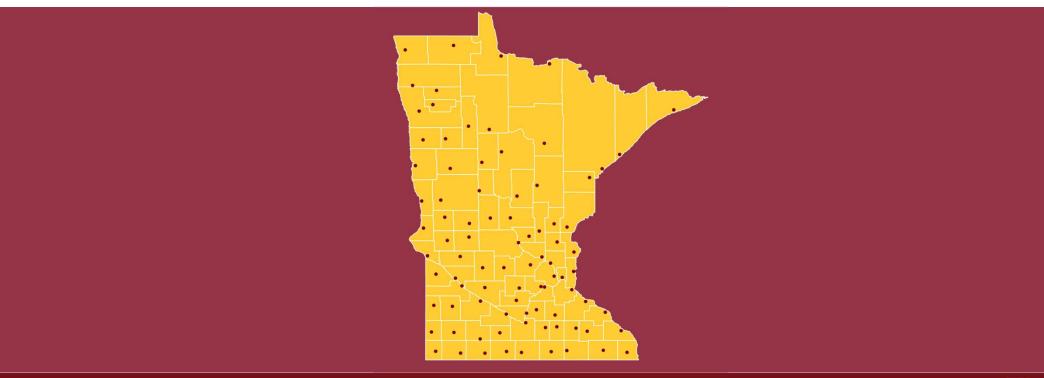


#### **Mobile Health Initiative**

- Addresses health
   disparities and implements
   innovative models of
   health care
- Seen thousands of people throughout the state since 2020

### Partnerships to Transform Health Care Delivery

Our partnerships across the entire state drive innovation in care, research, education and training





### **School of Dentistry**



600 STUDENTS IN AY 2023-24



187
GRADUATES IN AY 2022-23





#### **Degree Programs**

DDS BSDH DT

MS PhD



### School of Dentistry

- The School of Dentistry affiliates with 16 clinical sites within MN.
- The Mobile Dental Clinic serves patients at 14 unique sites across the state.
- In 2022 our Outreach program served 16,040 patients
- Dental, Dental Hygiene, and Dental Therapy students rotate to these clinics for a minimum of 6-8 weeks



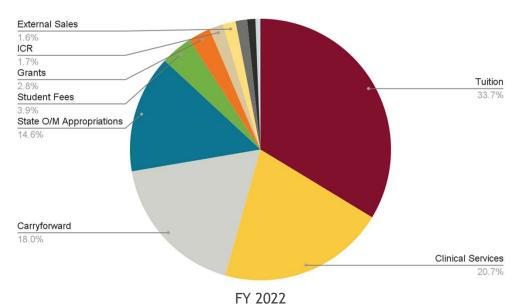
\*Apple Valley, Blaine, Eden Prairie, Forest Lake, North Minneapolis, Roseville, South Minneapolis, West St. Paul



### School of Dentistry

#### **MAJOR FUNDING SOURCES**





- Behavioral, Public Health and Educational Research
- 2. Biomaterials, Biomechanics and Technology
- Oral Microbiology,
  Virology, Immunology
  and Cancer
- 4. Systems Biology of the Orofacial Complex
- 5. Clinical and Translational Research





961 STUDENTS IN AY 2023-24



374
TRAINEES AT UMMC
IN AY 2023-24

789
RESIDENTS IN AY 2023-24

221
GRADUATES IN AY 2022-23



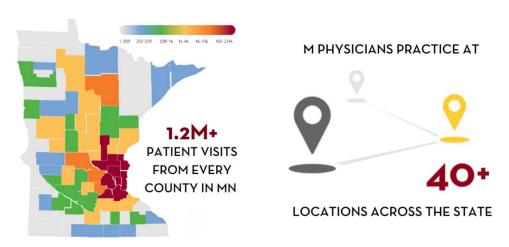


#### **Degree Programs**

MD
DPT
MD/PhD
MD/MPH
MD/MS
JD/MD
MD/MBA
MD/MHI



#### **PATIENT CARE**





1:5 of MINNESOTA'S TOP DOCTORS ARE M PHYSICIANS

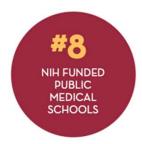
#### **RESEARCH**



2,830

**PUBLICATIONS IN 2022** 

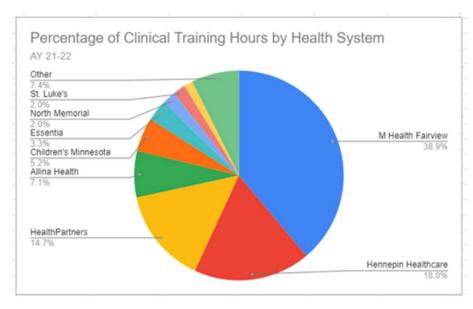


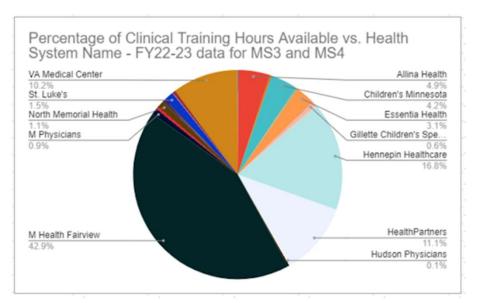






#### UNDERGRADUATE MEDICAL EDUCATION

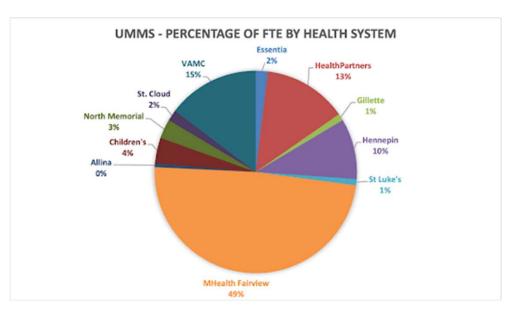




YEAR 1 + 2 YEAR 3 + 4

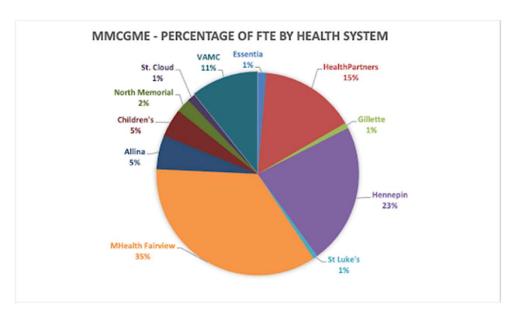


#### **GRADUATE MEDICAL EDUCATION**



RESIDENCIES AND FELLOWSHIPS BY SPECIALTY TRAINING LOCATION (JULY 1, 2022 - JUNE 30, 2023)

#### ALL MN SPONSORED ACCREDITED PROGRAMS\*

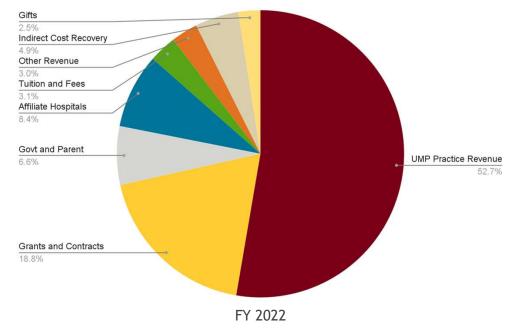


\*MAYO PROGRAMS NOT INCLUDED



#### **MAJOR FUNDING SOURCES**





- 1. Neuroscience/Neurology
- 2. Cardiovascular Care and ECMO
- 3. Cancer and Aging
- 4. Primary Care

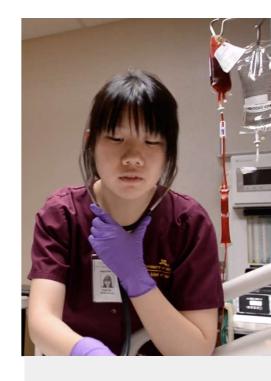


1,132
STUDENTS IN
AY 2023-24









#### **Degree Programs**

BSN MN DNP PhD



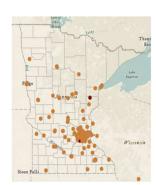




### The State of Minnesota's Nursing School

- The state's only PhD program and the largest source of nursing faculty in Minnesota
- 2<sup>nd</sup> largest full-time DNP program in the nation (Ranked #6 by US News)
- 116 BSN students on the Rochester campus and a vibrant relationship with UMR on nursing/healthcare issues (BSN Program ranked #16)
- Nursing Pathway partnerships with Crookston, Duluth and Morris
- 2<sup>nd</sup> to Extension on the U's Public Engagement Footprint map
- Doctoral pathway for American Indian/Alaska Native (AI/AN) students resulted in 14 new AI/AN students this fall, largest cohort in nation
- Home to the Center for Nursing Equity and Excellence, which is now the state's nursing workforce center and official voice nationally joining 41 states.







#### **Academic Health Impact**

Academic-Practice Partnerships - 3 Legs of Mission (Collaboratories)

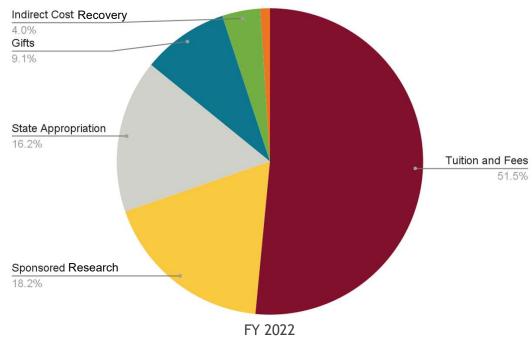
- 2015 First School of Nursing Collaboratory formed with M Health Fairview
  - 2017 Academic-Practice Partnership Award from American Association of Colleges of Nursing (AACN) and American Organization of Nursing Leaders (AONL)
- Current Collaboratories:
  - Allina Health
  - Children's Minnesota
  - Essentia Health
  - Faith Community Nurse Network
  - Minneapolis Veterans Affairs Health Care System
  - M Health Fairview
  - Mayo Clinic
  - Minnesota Hospital Association
  - PrairieCare





#### **MAJOR FUNDING SOURCES**





- Health Promotion Among Vulnerable Populations
- 2. Prevention and
  Management of Chronic
  Health Conditions
- 3. Symptom Management
- Health/Nursing Informatics and Systems Innovation



### College of Pharmacy



774
STUDENTS IN

STUDENTS IN AY 2023-24



TRAINEES AT UMMC IN AY 2023-24 24
RESIDENTS IN
AY 2023-24

262
GRADUATES
IN 2022





#### **Degree Programs**

PharmD MS MLS PhD OTD BS

Certificate

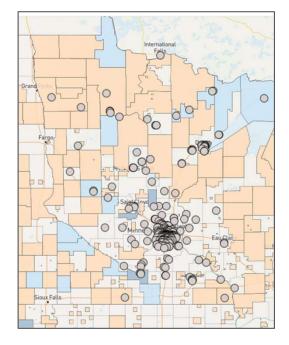


### College of Pharmacy

### **Partnerships Throughout the State**

Medical Laboratory Sciences, Occupational Therapy and Pharmacy programs have robust partnerships throughout the state:

- clinical
- community
- research



>350 clinical sites/partners

~600 students

66 community partnerships



### Diversity of College of Pharmacy Partnerships

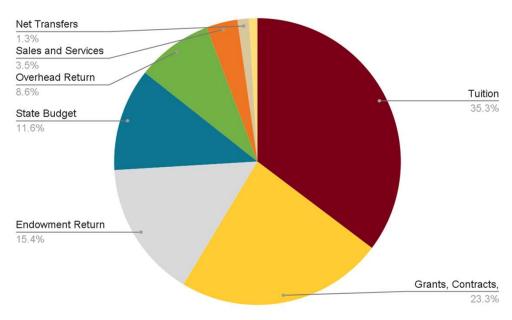
- Working together to:
  - Improve access to and quality of care
  - Address health disparities
  - Address workforce needs by educating the next generation of practitioners
  - Engage in research that spans patient access and experience, to improve systems of care, understand workforce trends and advance public health
- Examples of partnerships:
  - Pharmacy faculty provide clinical services at seven different clinics, health systems and practice sites across state
  - Federally Qualified Health Center Urban Health Network (FUHN)
  - Wilderness Health
  - Center for Alcohol and Drug Treatment
  - >350 clinical sites (health systems, clinics and community pharmacies)



### College of Pharmacy

#### MAJOR FUNDING SOURCES





#### FY 2022

- Substance Use Disorders
- Neuroscience
- 3. Cancer
- 4. Pharmacogenomics
- 5. Clinical and Translational Research
- 6. Progression of a Therapy from Conception to Clinic
- 7. Solutions to Major Global Problems
- 8. Policy and Initiatives in Pharmaceutical Technology, Precision Medicine, Community Engagement, Health Economics, and the Scholarship of Teaching and Learning



### School of Public Health

1,014
STUDENTS IN
AY 2023-24

51% MINNESOTA RESIDENTS 368
GRADUATES
IN 2022





#### **Degree Programs**

MPH MS MHA Dual Degrees Certificates Minors





### School of Public Health: MN Clinical Impact

The School of Public Health (SPH) is a critical component of Minnesota's healthcare environment through:

Training MN's healthcare leaders

Embedding equity in clinical settings

Advancing "upstream" discoveries & innovation

Engaging communities & policymakers



**Training** 

#2 Master of
Healthcare
Administration (MHA)
program in the U.S.

**34%** MHA alumni work in MN (35% of Executive MHA students are physicians)

200+

MN healthcare orgs employ MHA alumni

**Equity** 

Example: The SPH Center for Antiracism Research for Health Equity and partners developed and launched new clinician training on biasfree and equitable perinatal care to meet the requirements of the Dignity in Pregnancy and Childbirth Act (MN § 144.1461).

**Innovation** 

\$1.1M Avg. funding level per faculty. Much of the school's research is focused on healthcare delivery and improving patient outcomes.

#### Major themes:

- Rural healthcare access
- Healthcare organization, management, and finances
- Long term care
- Maternal and child health

**Engagement** 

SPH experts partner closely with MN healthcare orgs and are continuously tapped for their expertise by the media and state and federal policymakers.



### Top MHA alumni employers in MN:

- MHealth Fairview
- 2. HealthPartners
- 3. Allina Health
- 4. Mayo Clinic
- 5. United HealthGroup
- 6. Hennepin Healthcare
- CentraCare
- 8. Essentia Health
- 9. Medtronic
- 10. North Memorial Health
- 11. Veterans Administration
- 12. Children's Minnesota



**Jennifer Myster, MHA, MBA** President, Methodist Hospital

Megan Remark, MHA, MBA
President, Regions Hospital
Sr. Vice President, Health Partners



Deepi Goyal, MD, MHA Mayo Physician, Director of American Board of Emergency Medicine

Sabeen Aksari, MD, MHA President of Medical Staff, Fairview

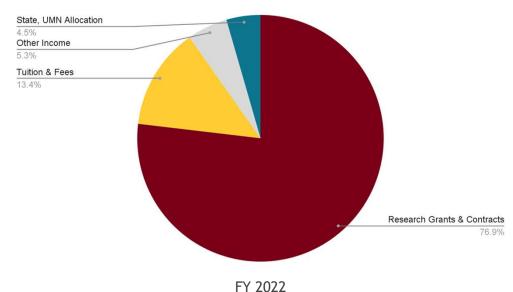




### School of Public Health

#### **MAJOR FUNDING SOURCES**





- Healthcare Delivery and Improving Patient Outcomes
- 2. Rural Health
- Healthcare Organization, Management, and Finances
- 4. Aging
- 5. Maternal and Child Health
- 6. Chronic Diseases
- Food and Nutrition
- 8. Environmental Health
- 9. Genomics
- 10. Health Equity
- 11. Infectious Disease
- 12. Injury
- 13. Mental Health



### College of Veterinary Medicine



586 STUDENTS IN AY 2023-24



**INTERNS AND RESIDENTS ONSITE IN AY 2023-24** 

593

**EXTERNSHIPS IN** AY 2022-23

**GRADUATES IN** AY 2022-23



\*of those who had accepted employment vs. going on to advanced training



#### **Degree Programs**

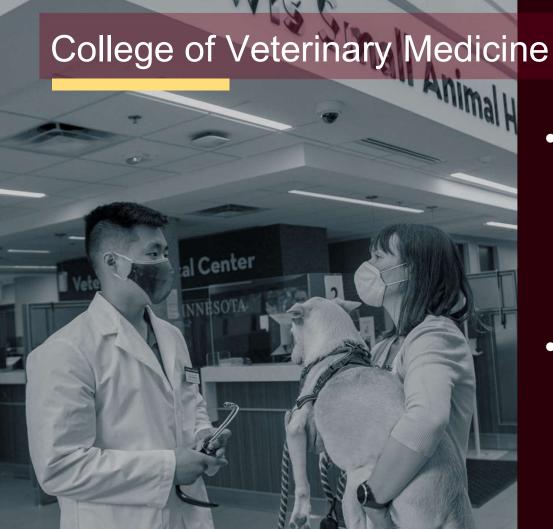
DVM PhD

MS

Post-Baccalaureate Certificate







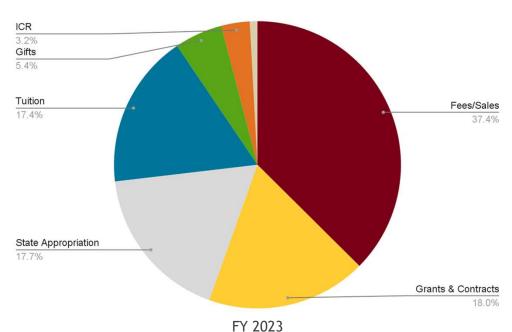
- Comparative medicine is vital to a One Health approach to medicine
  - Oncology, Cardiology, Prion diseases, etc.
  - University of Minnesota has a unique opportunity to lead
- Pet ownership provides health benefits
  - Mental health, blood pressure, cholesterol



### College of Veterinary Medicine

#### MAJOR FUNDING SOURCES





- Clinical and Translational Research in a Range of Medical Specialties Using Animal Models to Understand both Veterinary and Human Diseases
- 2. Chronic Disease Biology
- 3. Genomics and Computational Biology
- 4. Host-Pathogen Interface
- 5. Microbiomes and Antimicrobial Resistance
- 6. Pathogen Discovery and Surveillance
- 7. Ecosystem Health
- 8. Food Animal Health and Production
- 9. Food Safety and Security





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The University of Minnesota is an equal opportunity educator and employer.