



Special Committee on Academic Health

November 2023 - Special Meeting

November 21, 2023

10:30 a.m.

Boardroom, McNamara Alumni Center

CAH - NOV 21, 2023 - Special Meeting

1. The University's Health Sciences

Docket Item Summary - 3

Presentation Materials - 4



BOARD OF REGENTS DOCKET ITEM SUMMARY

Special Committee on Academic Health

November 21, 2023

AGENDA ITEM: The University's Health Sciences

Review **Review + Action** **Action** **Discussion**

This is a report required by Board policy.

PRESENTERS: Tim Beebe, Interim Dean, School of Public Health, Twin Cities campus
Connie Delaney, Dean, School of Nursing, Twin Cities campus
Keith Mays, Dean, School of Dentistry, Twin Cities campus
Laura Molgaard, Dean, College of Veterinary Medicine, Twin Cities campus
Todd Sorensen, Executive Senior Associate Dean and Acting Dean, College of Pharmacy, Twin Cities campus
Jakub Tolar, Dean, Medical School, Twin Cities campus and Vice President for Clinical Affairs

PURPOSE & KEY POINTS

The purpose of this item is to provide the special committee with an overview of the University's six health sciences schools and engage in a discussion that illustrates the connections between them. The University's six health sciences schools are the School of Dentistry, the Medical School, the School of Nursing, the College of Pharmacy, the School of Public Health, and the College of Veterinary Medicine. Each of these schools plays a pivotal role in care delivery in Minnesota through training, research, and clinical service.

BACKGROUND INFORMATION

The special committee received a high-level overview of the University's six health sciences schools and their accomplishments at the September 2023 meeting.

The University's Health Sciences

Special Committee on Academic Health

November 21, 2023



School of Dentistry




627
STUDENTS IN
AY 2023-24




187
GRADUATES IN
AY 2022-23



Degree Programs

DDS
BSDH
DT
MS
PhD

School of Dentistry

The state's only dental school and the only dental school in the northern tier of states between Wisconsin and the Pacific Northwest.

- Moos Tower Dental Clinics is the largest oral health safety net clinic provider in the state: **55%** of visits funded with public program assistance
- The School of Dentistry affiliates with 16 unique clinical sites within MN beyond the Moos Tower clinics
- The Mobile Dental Clinic serves patients at 14 unique sites across the state.



16,040 Patient visits
AT OUTREACH SITES

School of Dentistry

Interprofessional Collaborations & Engagements

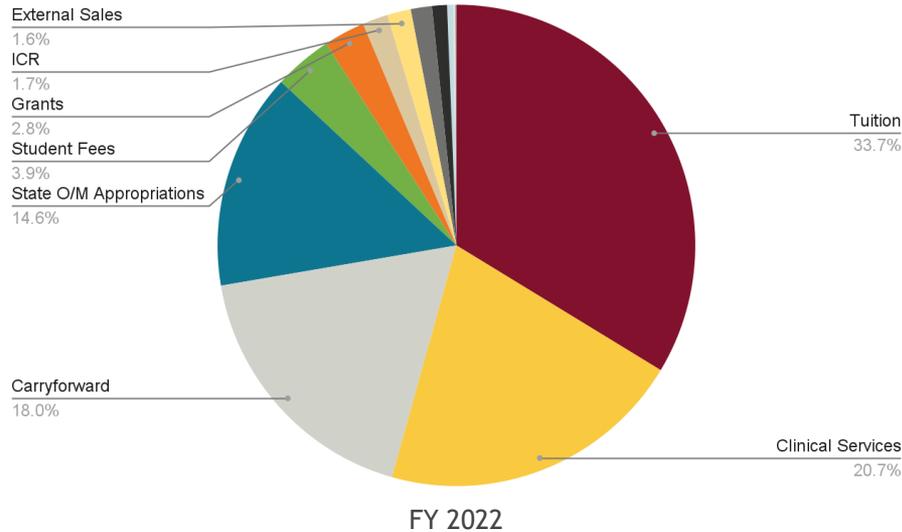
- School of Dentistry Hygiene Program & Hospital Rounding Teams (DH/DT/MD)
- An Interprofessional Education & Collaborative Practice Model for Dentistry & Pharmacy (DDS/PharmD)
- Community-University Health Care Center - focused on improving interprofessional practice care model (DDS/DNP/MA)
- Veterans Administration - develop and implement tools to scale huddle systems meant to manage safety and risk concerns (MHA/DDS/MPH)
- National Center - Develop and refine patient, family and community resources focused on mitigating racism and caste within healthcare teams (MN/DDS/OTD)
- Nurse Practitioner Clinic/Dental Therapy collaboration (NP/RN/DT)



School of Dentistry



MAJOR FUNDING SOURCES



Notable Areas of Research

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



Medical School




961
STUDENTS IN
AY 2023-24




374
TRAINEES AT UMMC
IN AY 2023-24




221
GRADUATES IN
AY 2022-23




789
RESIDENTS IN
AY 2023-24

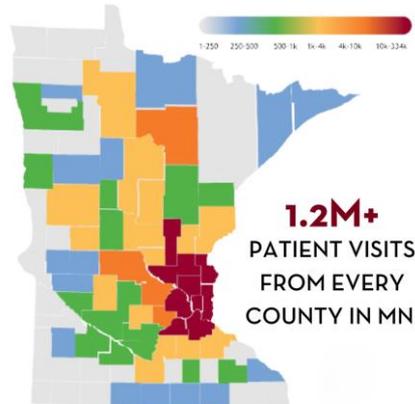


Degree Programs

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

Medical School

PATIENT CARE



M PHYSICIANS PRACTICE AT



LOCATIONS ACROSS THE STATE



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

RESEARCH

\$357M 
SPONSORED RESEARCH IN 2022

2,830
PUBLICATIONS IN 2022



#8

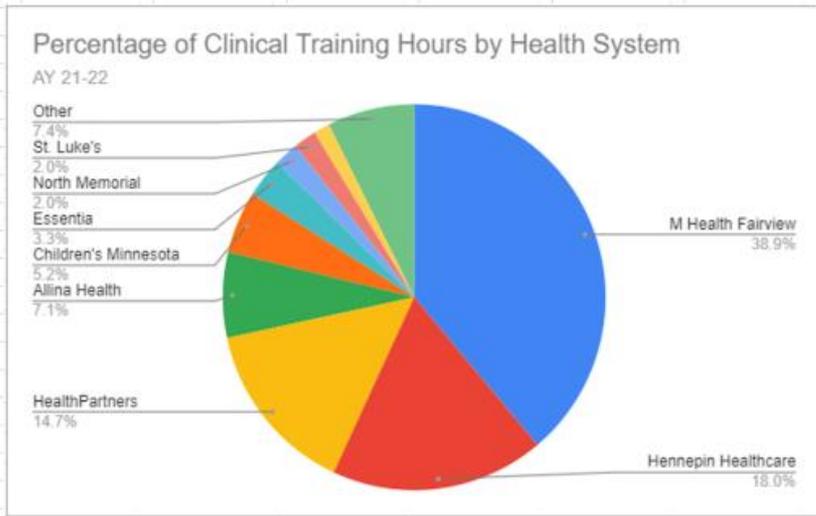
NIH FUNDED
PUBLIC
MEDICAL
SCHOOLS

#21

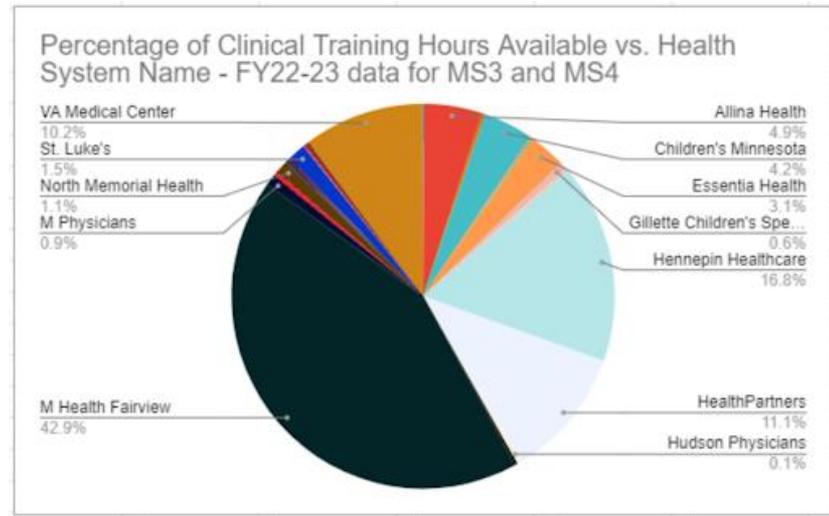
NIH FUNDED
MEDICAL
SCHOOLS

Medical School

UNDERGRADUATE MEDICAL EDUCATION



YEAR 1 + 2

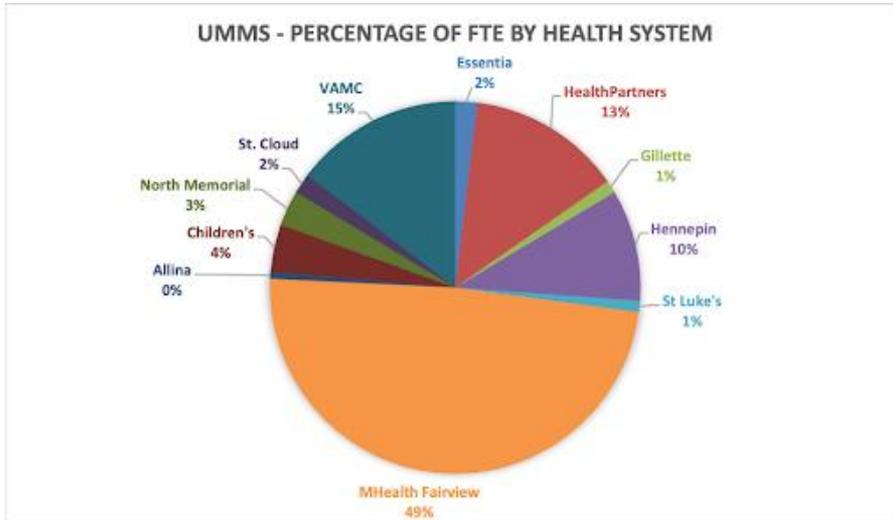


YEAR 3 + 4

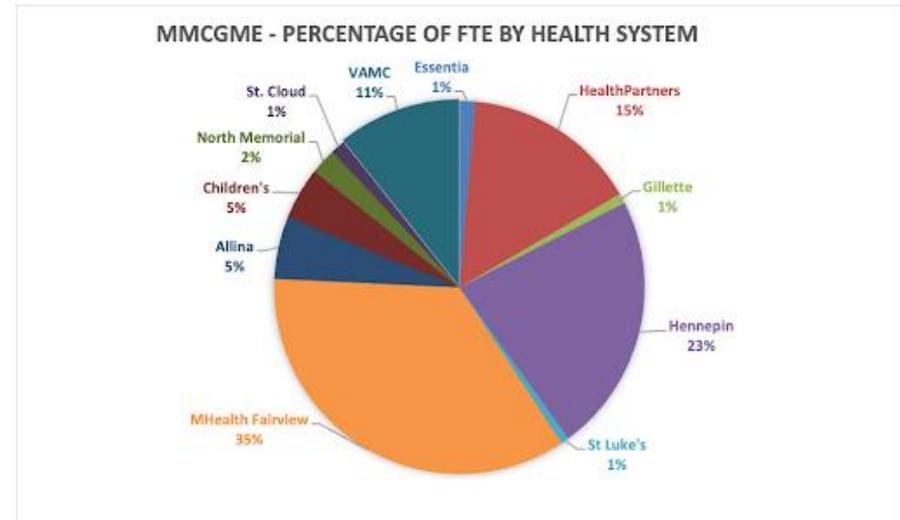
Medical School

GRADUATE MEDICAL EDUCATION

ALL MN SPONSORED ACCREDITED PROGRAMS*



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



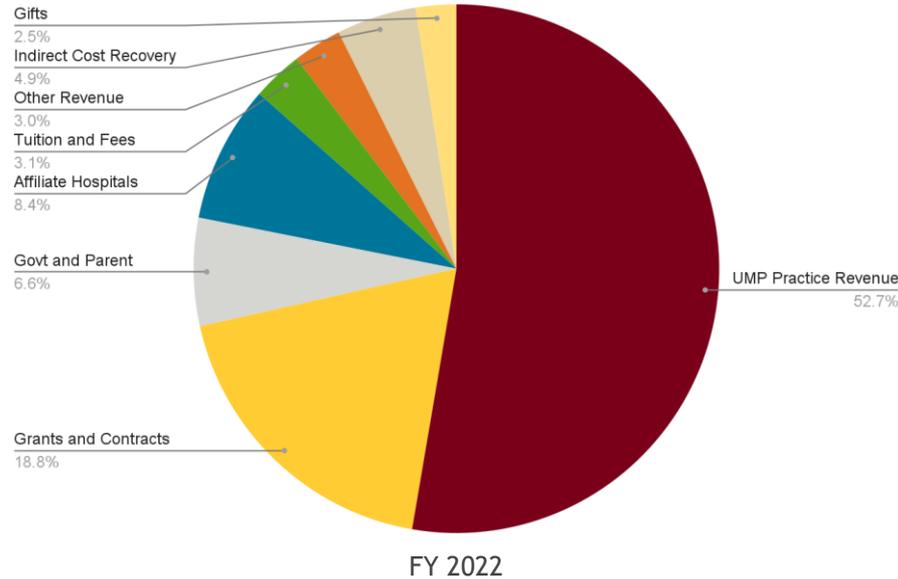
*MAYO PROGRAMS NOT INCLUDED

Medical School

Notable Areas of Research

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

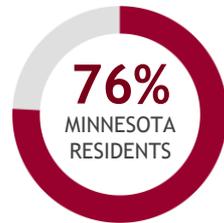
MAJOR FUNDING SOURCES



School of Nursing




1,132
STUDENTS IN
AY 2023-24




312
GRADUATES IN
AY 2022-23


129
TRAINEES AT UMMC
IN AY 2023-24

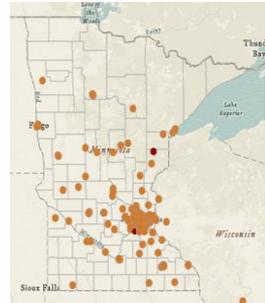


Degree Programs

BSN
MN
DNP
PhD

The State of Minnesota's Nursing School

- State's only PhD program and primary producer of nursing faculty
- 2nd 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
- 2nd 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.



School of Nursing

Academic Health Impact **Academic-Practice Partnerships - 3 Legs of Mission** **(Collaboratories)**

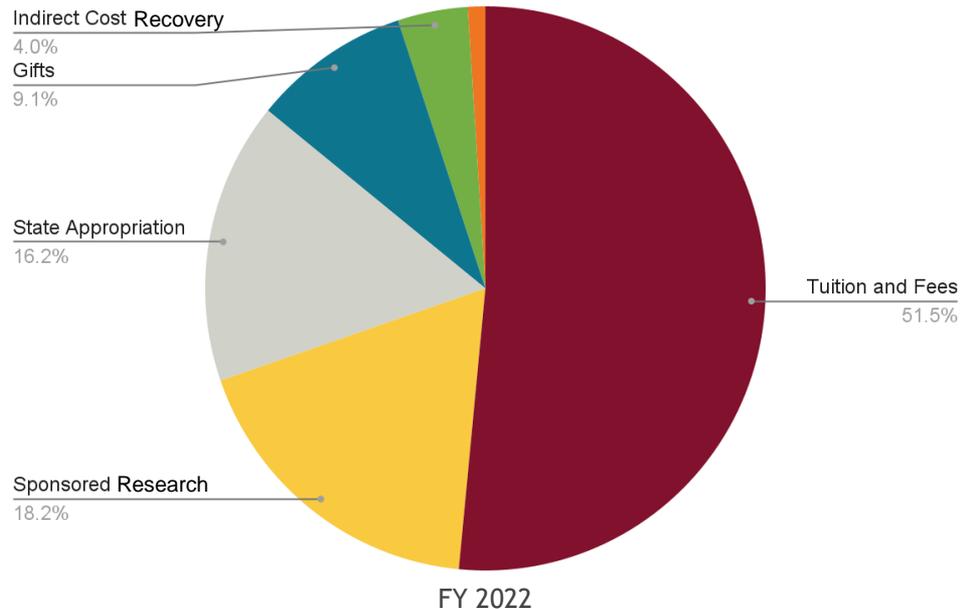
First School of Nursing Collaboratory formed with M Health Fairview in 2015. Received Academic-Practice Partnership Award from American Association of Colleges of Nursing (AACN) and American Organization of Nursing Leaders (AONL) in 2017.

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

School of Nursing

MAJOR FUNDING SOURCES



Research Examples

Addressing social determinants of health that influence health behaviors, nutrition and obesity of individuals and families living in underserved communities.

Reducing the burden of stroke in African American communities with research that builds trust and improves understanding of stroke risk factors and warning signs.

Discovering how nature-based therapies can improve mental health and overall wellbeing and creating mobile health strategies to monitor symptoms and improve health outcomes.

Harnessing the power of public health data to develop disease-prevention and wellbeing improvement initiatives.



School of Nursing

Education, Research and Clinical Engagement Funding

- Academic programs supported through tuition and fees
- Research supported by grants and indirect funds
- Clinical Engagement:
 - Nearly 1,000 clinical placements per year, primarily in Minnesota
 - Students (including doctoral) do not receive payment for clinical work
 - Preceptors do not receive payment for hosting students
 - Practitioner trainees are counted in systems MERC formula
- Shortage of clinical placements is significant barrier to academic program growth



College of Pharmacy




774
STUDENTS IN
AY 2023-24




38
TRAINEES AT UMMC
IN AY 2023-24




24
RESIDENTS IN
AY 2023-24


262
GRADUATES
IN 2022




202
PHARMACY ROTATIONS
(INCLUDING IPPE/APPEs)



Degree Programs

PharmD
MS
MLS
PhD
OTD
BS
Certificate

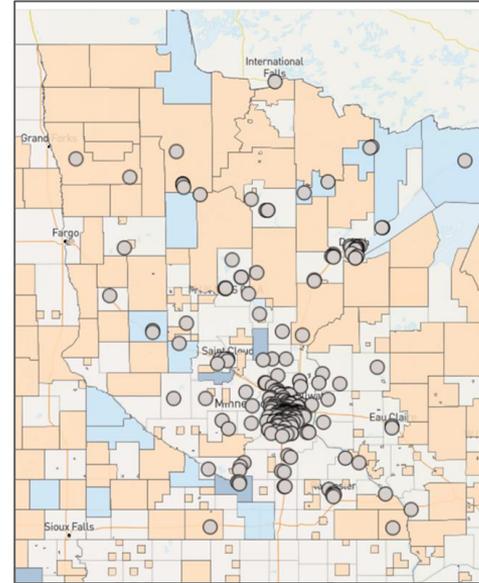


College of Pharmacy

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

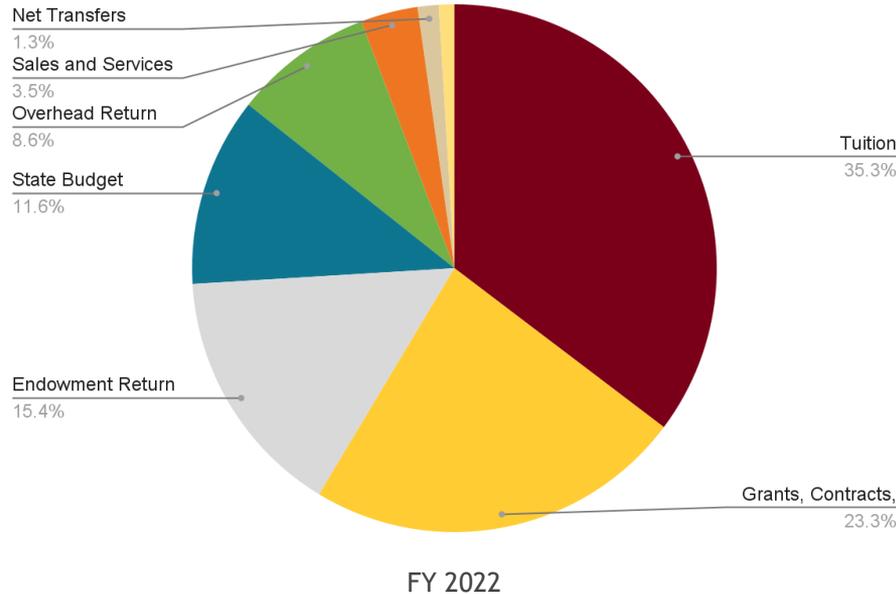
- Working together to:
 - Improve access to and quality of care
 - Address health disparities
 - Address workforce needs by educating the next generation of practitioners
 - Engage in research that spans patient access and experience, to improve systems of care, understand workforce trends and advance 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



Notable Areas of Research

1. Substance Use Disorders
2. 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




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 bias-free 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

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:

1. MHealth Fairview
2. HealthPartners
3. Allina Health
4. Mayo Clinic
5. United HealthGroup
6. Hennepin Healthcare
7. 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

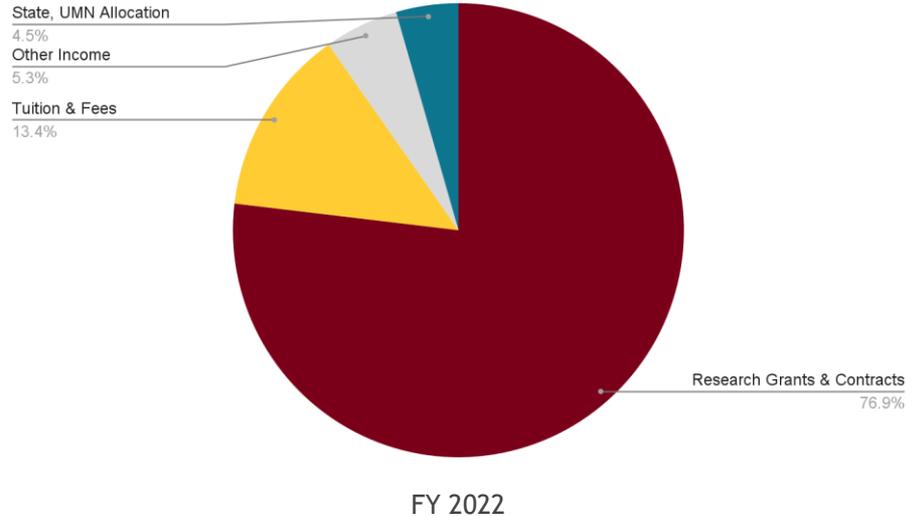


Sabeen Aksari, MD, MHA
President of Medical Staff, Fairview

Engagement

School of Public Health

MAJOR FUNDING SOURCES



Notable Areas of Research

1. Healthcare Delivery and Improving Patient Outcomes
2. Rural Health
3. Healthcare Organization, Management, and Finances
4. Aging
5. Maternal and Child Health
6. Chronic Diseases
7. 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




53
INTERNS AND RESIDENTS
ONSITE IN AY 2023-24




119
GRADUATES IN
AY 2022-23




593
EXTERNSHIPS IN
AY 2022-23

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



Degree Programs

- DVM
- PhD
- MS
- Post-Baccalaureate Certificate



College of Veterinary Medicine

- Operates 3 hospitals
- 34,000 patient visits last year
- One of the largest academic veterinary medicine programs in the country
- College is ranked #4 in the U.S. for research, #7 for overall program
- Graduating ~100 DVMs annually, Expanding to 125 in 2025.
- Students participate in externships - over 300 placements last year in MN



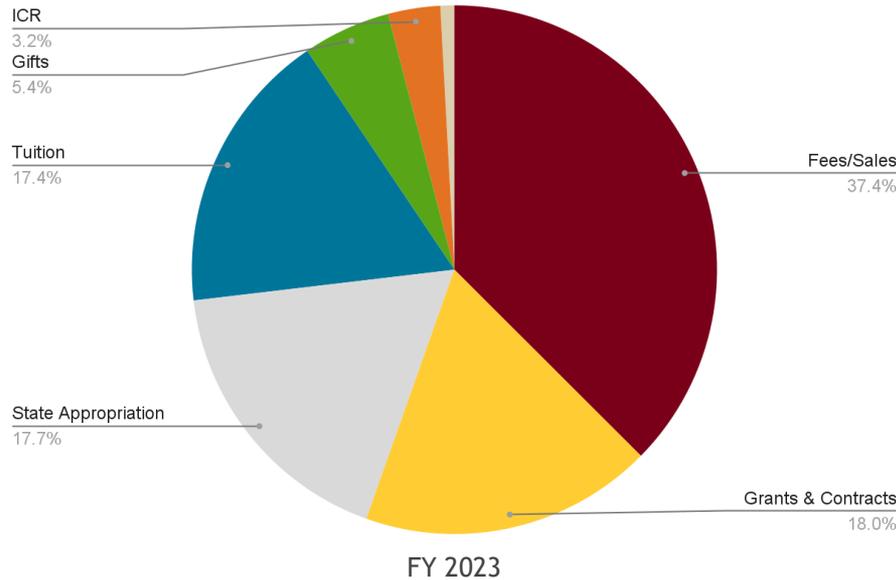
College of Veterinary Medicine



- 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



Notable Areas of Research

1. 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





UNIVERSITY OF MINNESOTA

Driven to Discover®

Crookston Duluth Morris Rochester Twin Cities

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