



ANNUAL REPORT

2023



COLLEGE OF
MEDICINE

CENTRAL MICHIGAN UNIVERSITY

MESSAGE FROM THE DEAN



George E. Kikano, M.D.

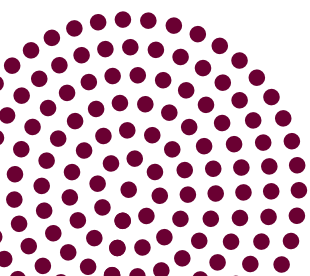
The College of Medicine began the 2022-23 academic year knowing that it was a changed world. The COVID-19 pandemic has left its mark on the study and practice of medicine. Rapid advancements in science and technology were necessary to improve vaccine development, enhance research initiatives, expand virtual health care access and increase collaboration on a global scale. Now, as we move forward in a post-pandemic setting, the advancements continue at the speed of innovation.

We are excited to be a foundation of medical knowledge at a time when knowledge is growing and improving so significantly. Our students learn from experienced educators and faculty physicians who provide high-quality instruction and hands-on training. State-of-the-art, accredited simulation centers at both campuses use the most advanced technology in simulation, robotics and virtual reality to provide supplemental training in clinical skills and patient care. The education and experiences our students receive help prepare them to become confident and compassionate physicians who will thrive in the rapidly changing practice and field of medicine.

As such, the College of Medicine supports a robust research department and devotes significant resources to expanding research activities with a particular emphasis on issues important to people in our region. Our faculty investigates crucial aspects of medical research with the potential to contribute new innovations while training medical students and resident physicians in proper research methodology. CMU students and residents develop a strong sense of discovery, which leads to scholastic contributions and improved educational and medical outcomes.

We are committed to improving health and health care in the Great Lakes Bay Region and beyond. In the last year, we launched two significant initiatives that work to improve health outcomes in the area and throughout Michigan.

The Rural Health Equity Institute focuses on the rural health priorities in our communities; to improve access to services, expand telehealth capacity and deliver the education and training necessary to respond to local needs. The RHEI provides an innovation and collaboration hub where health care providers and community leaders can come together and forge solutions that improve the health and well-being of our rural residents. By creating collaborative partnerships for rural revitalization and building on existing relationships within rural communities the RHEI ensures CMU is fully engaged in community solutions to regional health care concerns.



The Women and Children's Center is a comprehensive care facility that serves children from birth to adolescence and women of all ages. The Center will provide the highest quality care to women and children from all areas of central and northern Michigan. Pediatricians, obstetricians and other specialists and services are now more easily accessible. Removing barriers to care is essential to making positive change in the health inequities that exist throughout the region.

The CMU College of Medicine has a goal to improve health through education. This goal is met by educating and training outstanding physicians. It is also achieved when our faculty physicians, residents and students provide excellent medical care and education to their patients to improve their health and well-being. Better education for doctors and patients leads to overall better medical outcomes and positively influences the wellness of the community as a whole. As we look toward the next year and further into the future, our faculty, staff and students are well-positioned to make a lasting impact in the field of medicine.

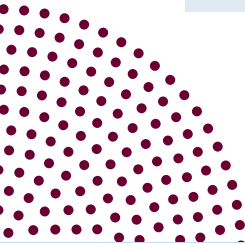
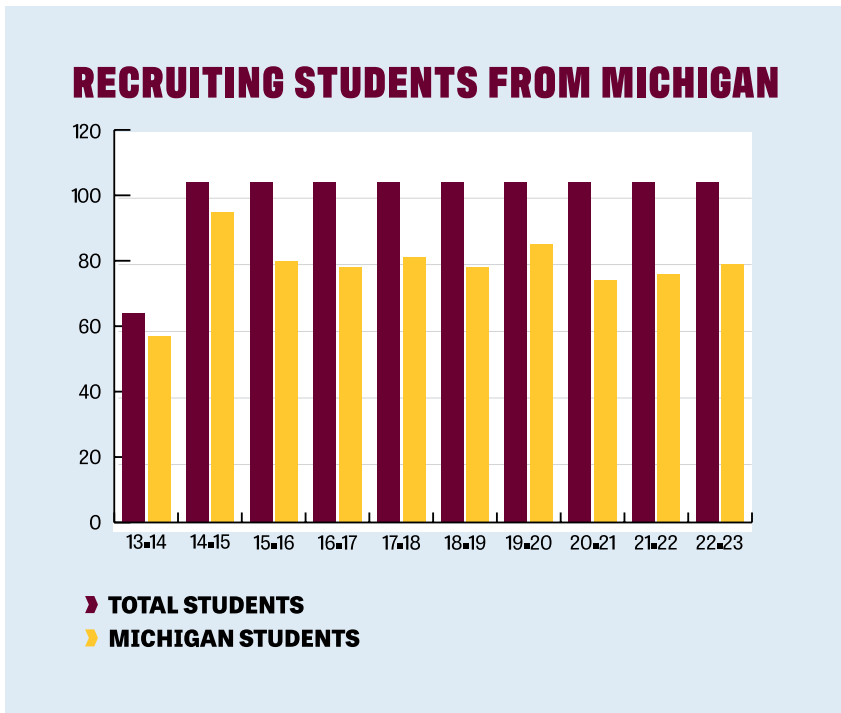




Educating Doctors for MICHIGAN COMMUNITIES

The College of Medicine provides exceptional medical education that prioritizes people and community. Our mission focuses on recruiting students from Michigan who want to become doctors for Michigan. The College upholds this mission by attracting well-qualified candidates from throughout the state. For the 2022-23 academic year, the College received 7,989 applications to fill 104 student spots; 1,436 were from Michigan students. Seventy-nine members of the enrolled class were Michigan residents.

The College of Medicine consistently sustains 70-80% enrollment from Michigan applicants.





Recent community studies indicate Michigan will need an additional 862 primary care physicians by 2030 just to maintain the current, insufficient, ratio of 1,400 people to 1 doctor. Much like the rest of the state and country, our region is experiencing a severe physician shortage; in some areas the ratio is an alarming 2,500 people to 1 doctor. The College is committed to addressing this inequity.

The College of Medicine has now graduated over 600 new physicians ready to attend their residency programs with confidence and compassion. Consistently, the majority of our graduating students are choosing to serve as primary care physicians, with 40-50% of them electing to stay in Michigan. In this way, the College is directly impacting the physician shortage in our own communities.

Studies conducted by the AAMC estimate a projected shortfall of up to **124,000 physicians by the year 2034.**



The 2023 graduating class achieved a **99% residency placement rate.**

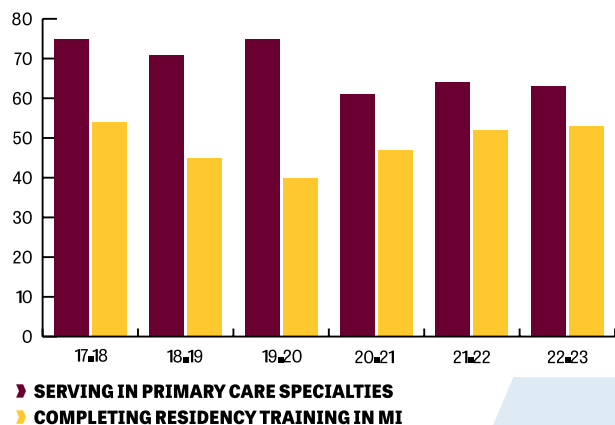
- » 12 of the graduates are completing their residency training at the Saginaw campus or other satellite locations.
- » 53% of these resident physicians will remain in Michigan to serve in our communities.
- » 63% will use their skills as primary care providers.

Under the leadership of CMU Medical Education Partners, the residency programs have doubled in size from 80 total residents to over 160. Each year there is more of a demand for capacity. In 2022, 52 residents matched in positions with CMU Medical Education Partners. This was the largest class in the program's history. In 2022-23, CMU Medical Education Partners had a total of 155 residents. At the end of the year, 42 of these physicians graduated from their residency programs.

Programming has been developed to better serve the rising health care needs in the region. In 2022, the first residents were welcomed to the new pediatric residency program, a collaboration between CMU Medical Education Partners and Covenant HealthCare, the region's leader in pediatric

medicine. The program gives learners outstanding educational opportunities and access to experience with specialty services including pediatric neurology, endocrinology and infectious disease.

TRAINING DOCTORS FOR MICHIGAN





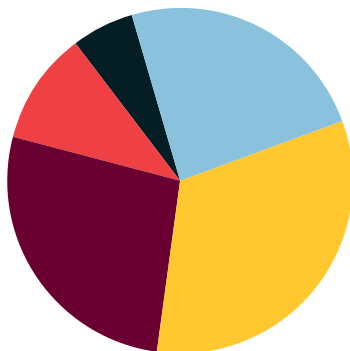
Innovative Research to **ADVANCE MEDICAL CARE**



Research is an important part of the mission of the CMU College of Medicine. Our faculty, medical students and resident physicians work with state-of-the-art technology and emerging scientific advancements to seek sustainable solutions for medical issues and health care concerns. Our educators encourage projects that will contribute to groundbreaking discoveries in medicine while training our learners in proper research methodology and evaluation.

Each year the College of Medicine hosts an annual, spring Research Symposium in conjunction with CMU Medical Education Partners. This event is a great opportunity for students and residents to gain valuable experience presenting their research to peers in a familiar environment.

2023 RESEARCH SYMPOSIUM



- 25%** ➤ **QI/Med Ed**
- 34%** ➤ **Case Reports**
- 28%** ➤ **Clinical Science**
- 22%** ➤ **Basic Science**
- 6%** ➤ **Population Health**

College of Medicine researchers successfully received funding from 76 grants totaling nearly **\$8.3 million.**

These projects represent 44.7% of University research grant funding.

S. Sethu K. Reddy, M.D.,

CMU College of Medicine senior associate dean for research and president of the American Association of Clinical Endocrinology is an author of the new clinical guideline that provides recommendations for the care and management of people with or at risk for diabetes. The guideline addresses a variety of new topics related to the management of diabetes, including COVID-19 vaccination, telehealth, social determinants of health, male and female infertility, secondary diabetes, and nutritional supplements. This update also includes expanded sections on the management of hyperglycemia in the hospital setting and hypoglycemia, quality of life recommendations on sleep hygiene and depression, and updated safety-oriented recommendations on occupational risk and risk of cancer.

Lauren Yagiela, M.D.,

assistant professor for the College of Medicine, was awarded a 4-year NIH K23 grant to study the crucial need for psychosocial interventions for parents of critically ill children. The overall objective of the project is to gain the skills to build and test the feasibility of a theory-driven and evidence-based parent psychosocial intervention identified as EMPOWER. The expected outcome is that EMPOWER will help parents gain skills to reduce immediate distress, enhance caregiver self-efficacy and improve parents' ability to support their child's recovery, thereby improving PICU outcomes.



The Telehealth Broadband Pilot program through CMU's Rural Health and Equity Institute is collecting data about the speed and quality of the internet in rural areas with an emphasis on evaluating how connectivity affects telemedicine access. The switch to telehealth appointments during the pandemic raised the question of whether rural communities receive adequate access to the internet. The study will identify gaps in broadband coverage and determine if consumers are getting the services they need with the goal of collecting accurate data to support future broadband deployment efforts.

Doctoral student Emmanuel Crespo received the NIH Outstanding Scholars in Neuroscience Award. His research is being conducted in the College of Medicine's Bioluminescent Optogenetics Lab under the mentorship of Ute Hochgeschwender, M.D. His research takes place along two tracks, building molecular tools and then applying them to study the brain. The goal is to investigate the potential connection between neural stimulation during brain development and the development of autism spectrum disorder.



Community Initiatives FOR BETTER HEALTH



The CMU College of Medicine provides excellent health care in the Great Lakes Bay Region. CMU faculty, residents and students are training and working in the community and CMU Health is a trusted name in the community, with more than 70,000 patient visits annually.

The Women and Children's Center opened in Saginaw in 2023. The Center is a comprehensive care facility that serves children from birth to adolescence and women of all ages. The Center is one substantial example of how the College of Medicine responds to community need. The disparities surrounding infant mortality in Saginaw County are startling. More than a third of births happen without prenatal care and infant mortality rates are nearly 2.5 times the national rate. The Center will provide the highest quality care to women and children from all areas of central and northern Michigan. It is centrally located and easily accessible by private and public transport, making it ideally suited to serve a wide demographic. Removing barriers to care is essential to making positive change in the health inequities throughout the region.

The College of Medicine also launched the Rural Health Equity Institute in 2023 with

the mission to ally with rural communities to improve the health and well-being of rural residents across Michigan and beyond. By focusing on the health priorities of our rural communities, the RHEI seeks to improve access to services, expand telehealth capacity and deliver the education and training necessary to respond to local needs.

The RHEI also provides an innovation and collaboration hub where health care providers and community leaders can come together and forge solutions that improve the health and well-being of our rural residents. By creating collaborative partnerships for rural revitalization and building on existing relationships within rural communities the RHEI will ensure CMU is fully engaged in community solutions to regional health care concerns.





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Mission

The Central Michigan University College of Medicine educates diverse students and trains culturally competent physicians to provide comprehensive health care and services to underserved populations in Michigan and beyond. Our faculty, staff and graduates advance health and wellness through exceptional education, innovative research, quality patient care and strategic collaborations to improve the health and well-being of individuals and communities.

Vision

We will realize our bold vision by producing future generations of well-trained physicians, developing new solutions from innovative research, improving access to high-quality health care and forging strategic partnerships to build thriving communities and better lives for all people in Michigan.

Values

Integrity | Respect | Empathy | Excellence |
Inclusiveness | Social Responsibility | Innovation



Medical Education

MOUNT PLEASANT CAMPUS

1280 East Campus Drive
Mount Pleasant, MI 48859
989-774-7547

SAGINAW CAMPUS

1632 Stone Street
Saginaw, MI 48602
989-746-7504

Clinical Training

COVENANT HEALTHCARE

700 Cooper Avenue
Saginaw, MI 48602

ASCENSION ST. JOHN HOSPITAL

22101 Moross Road
Detroit, MI 48236

ASCENSION ST. MARY'S HOSPITAL

800 S. Washington Avenue
Saginaw, MI 48601

MYMICHIGAN HEALTH

4000 Wellness Drive
Midland, MI 48670

COREWELL HEALTH LAKELAND HOSPITAL

1234 Napier Avenue
St. Joseph, MI 49085



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MEDICINE

CENTRAL MICHIGAN UNIVERSITY

CMU, an AA/EO institution, strongly and actively strives to increase diversity and provide equal opportunity within its community. CMU does not discriminate against persons based on age, color, disability, ethnicity, familial status, gender, gender expression, gender identity, genetic information, height, marital status, national origin, political persuasion, pregnancy, childbirth or related medical conditions, race, religion, sex, sex-based stereotypes, sexual orientation, transgender status, veteran status, or weight (see <http://www.cmich.edu/ocrie>). 20673 MGX 900 qty (01/24)