



Unlimited Possibilities

University of Mississippi Medical Center
Annual Report 2022-2023





This past year was a period of growth and transition. We expanded our health services to include complex burn care, enhanced children's services and additional telehealth care for Mississippi's students and adults.

Our schools increased in overall enrollment, producing caregivers and scientists who work to change the landscape of health care in the state. We received an overwhelmingly positive response to our efforts to attract health professional students through an array of outreach programs.

Research broadened its reach through deeper dives into memory loss and Alzheimer's disease. Our scientific pursuits involved the study of disease at a molecular level to discover new treatments and cures and joining a national study to examine newborn health.

These are more than just bragging points. These are tangible results of the innovation, hard work and commitment of our faculty, staff and students. We will remain focused on our three-fold mission of health care, research and education as we continue to build upon the progress we've made.

We have several new projects and initiatives in the coming years that will add to our ability to care for even more Mississippians. The future is bright, and unlimited possibilities for a healthier Mississippi lie ahead.

LouAnn Woodward, M.D.

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Vice Chancellor for Health Affairs

University of Mississippi Medical Center



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2025

UMMC STRATEGIC PLAN

UMMC 2025, the strategic plan for the University of Mississippi Medical Center, provides a roadmap for future growth and development within our three mission areas of patient care, research and education in the health sciences and is in the third year of a five-year plan.

Overall progress will be measured by the accomplishment of specific annual goals, which are updated each year. As a team, we will build upon UMMC's accomplishments over the previous two years. The five strategies ground our work, and the third-year goals reflect an ambitious but achievable plan to drive us closer to our goal of becoming a nationally recognized academic medical center.

1



Maximize value in quality of care

- Develop and refine the Office of Operational Excellence
- Augment the spectrum of care coordination
- Minimize variability in clinical care documentation
- Reduce direct cost of care

2



Drive strategic clinical growth

- Standardize outpatient capacity and access
- Enhance ambulatory referral processes
- Optimize physician compensation plan
- Standardize advanced practice provider compensation plan

3



Expand health care services statewide

- Optimize services and scope at Merit Health Madison
- Strengthen current clinical affiliations
- Grow primary and specialty care networks
- Increase physician outreach presence

4



Position academic programs for the next generation of learners

- Modernize the Rowland Medical Library
- Revitalize the Nelson Student Union
- Enhance the Office of Faculty Affairs
- Establish an honors college

5



Strengthen research programs

- Optimize compensation plan for School of Medicine non-clinical research faculty
- Boost faculty recruitment, especially in cancer biology and population health
- Improve clinical trial operations and management
- Modernize research space, including labs and vivarium

Learn more at umc.edu/strategicplan

Fast Facts

Education (AY23)



Number of Learners **3,082**

Graduate Medical Education (Residents & Fellows) **659**

School of Dentistry **200**

School of Graduate Studies **220**

School of Health Related Professions **451**

School of Medicine **657**

School of Nursing **850**

School of Population Health **53**

Clinical Care (AY23)



Hospital Admissions: **30,423** (10% uninsured)

ER Visits: **117,093** (14% uninsured)

Hospital Outpatient Visits: **246,641**

Clinic Visits: **526,149**

Research (AY23)



Sponsored Activities (all sources)

FY2023 - **\$96 million**

Top Five Research Grants (FY23)

CIDA (Center for Innovation and Discovery in Addictions)
\$6 million

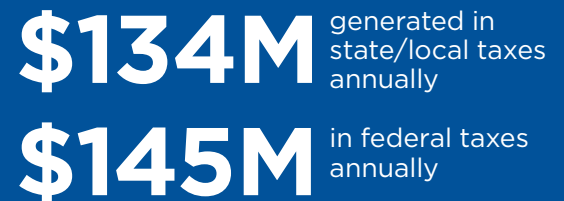
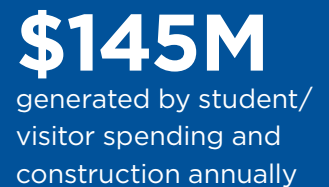
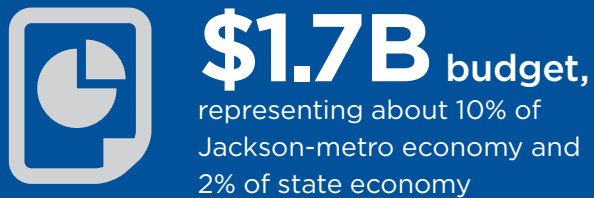
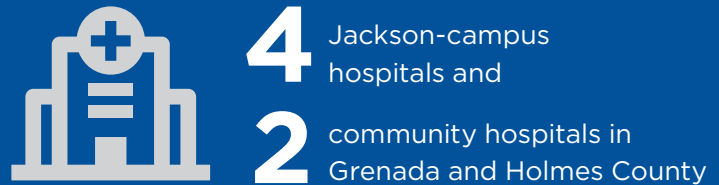
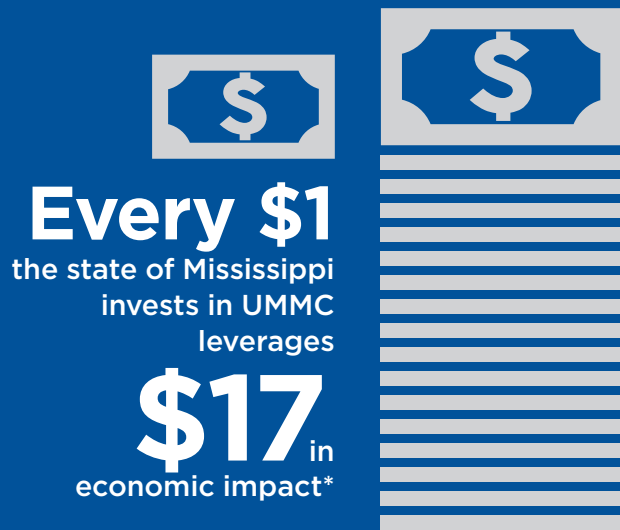
ESSER Telehealth Services in Schools Grant **\$5.2 million**

Mississippi Center for Clinical and Translational Research
\$3.9 million

Telehealth Center of Excellence **\$3.7 million**

AWARE in Mississippi (AIM) **\$3.5 million**

UMMC Economic Impact



*Source: "The Economic Value of the University of Mississippi Medical Center," study produced by Emsi.



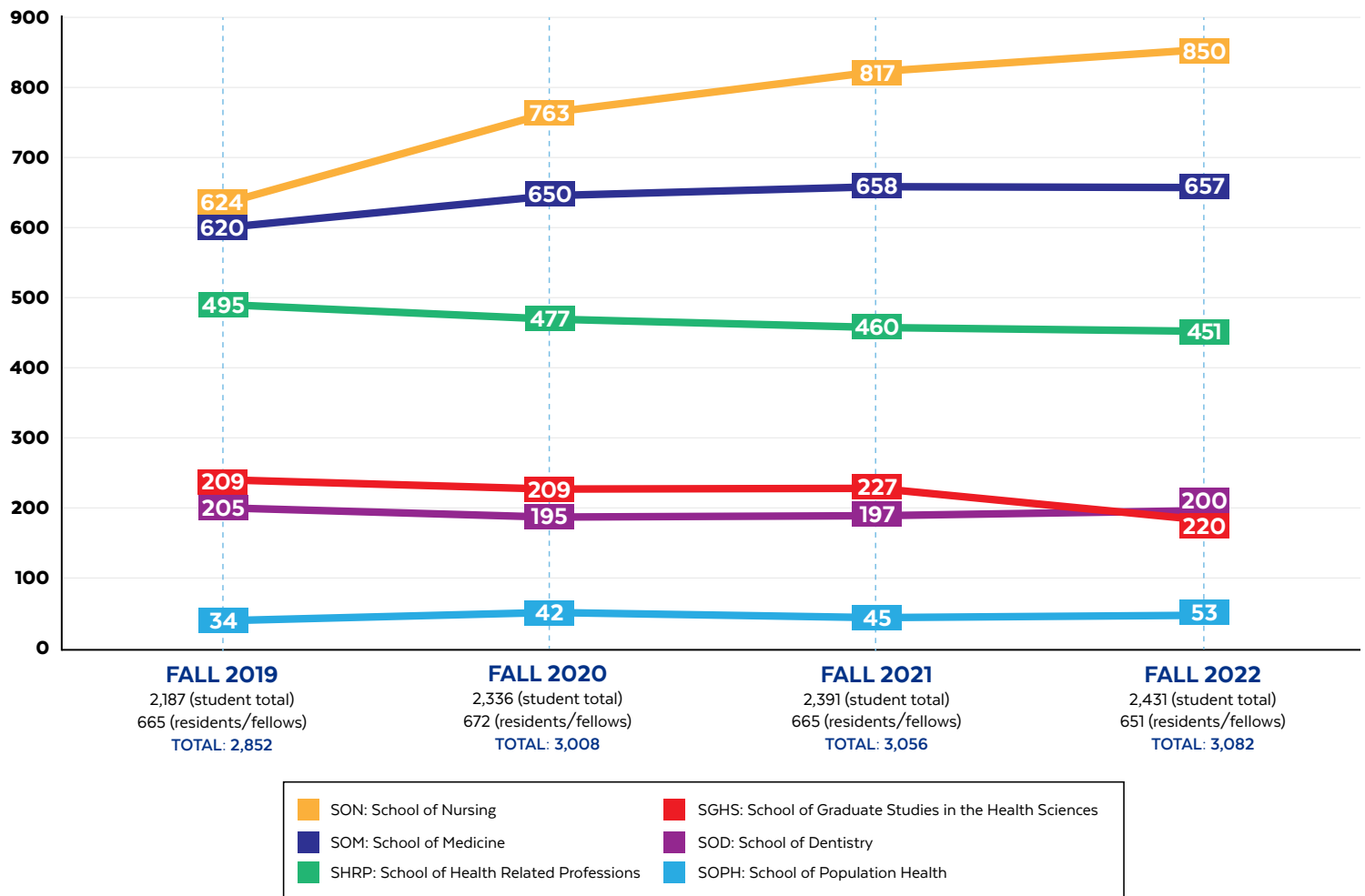
Educating
Tomorrow's
Health Sciences
Workforce

Academic Enrollment

To meet the health care needs of Mississippians, we help train the state's health professionals. We aim to improve the health of those we serve through our most sacred responsibility of education. Our students are educated in a challenging academic environment

while attaining the skills required of an innovative and compassionate clinician or scientist. We continue to grow in our academic mission as we prepare caregivers and researchers for their careers right here in Mississippi.

UMMC SCHOOLS' FALL ENROLLMENT, FOUR-YEAR COMPARISON



UMMC Enrollment Pattern Continues Rise



For the fourth consecutive year, campus schools at the University of Mississippi Medical Center made a jump in overall enrollment.

The figure for fall 2022 surged 1.4 percent over the record-breaking year of 2021. The numbers capture six Medical Center schools – all but pharmacy, whose share is part of the official count for the University of Mississippi’s School of Pharmacy in Oxford.

This expansion defies a national trend: The National Student Clearinghouse Research Center reported in October that the graduate tally fell by 1 percent, while a second successive decrease in the undergraduate roster equaled a 4.2 percent drop since 2020.

Dr. LouAnn Woodward, vice chancellor for health affairs at UMMC and dean of the School of Medicine, is encouraged by the upswing despite the pandemic-induced pressures on health care since 2020.

“We continue to see sustained levels and, in some schools, significant increases in our student enrollment,” Woodward said. “This tells me that our mission to create a healthier Mississippi is resonating with those who seek careers as caregivers and scientists in our state, and we are proud of our role in producing health professionals as the state’s only academic medical center.”



Number of degrees conferred (AY23) 914

Number of certificates conferred (AY23) 22

Academic Achievements

UMMC celebrates 900-plus May 2023 graduates across six health sciences schools

In its 67th annual Commencement, the University of Mississippi Medical Center conferred degrees to hundreds of students who are beginning their careers in the health sciences, or entering into a new chapter.

The graduates of the schools of Dentistry, Graduate Studies in the Health Sciences, Health Related Professions Medicine, Nursing and Population Health left campus with the aim of improving health and quality of life. Of this year's graduating class of 914 students, about 740 walked across the stage in cap and gown to receive their diplomas in person.

"You will never practice any profession well if you don't have a good time doing it," said Dr. LouAnn Woodward, vice chancellor for health affairs and dean, School of Medicine. "The work before you is hard. It is important. It is heavy. And, it is rewarding and it is worth doing. Remember the excitement, the spirit and the passion you have today, and keep it with you."

Dr. Glenn Boyce, chancellor of the University of Mississippi, told graduates that he's confident they are well prepared for their next steps of training or for launching their careers as a health care provider or researcher.

"We're especially grateful to celebrate this class that demonstrated perseverance and resilience in the face of tremendous disruption in their personal lives and in their education during one of the most challenging periods in our nation's history," Boyce said. "You've reached this pinnacle and fulfilled your educational goals through hard work, grit and determination."



Other academic accomplishments:

- The online Master of Science in Nursing program at the UMMC School of Nursing was ranked 33rd in the nation by U.S. News & World Report. The ranking is the highest for any online MSN program in the state.
- UMMC's dental hygiene program celebrated 50 years of education and training. About 85 students apply annually for a coveted 20 openings in the state's only B.S. in dental hygiene program in the School of Dentistry.
- Match Day 2023 was the largest in UMMC history, with 163 students. Every one of them matched to a program, representing 27 specialties.
- S.M.I.L.E. U held its inaugural session at the School of Dentistry. S.M.I.L.E. U, short for Shaping Minds to Inspire, Lead and Explore, is the creation of Dr. Kristin Nalls, assistant dean for community and lead director of admissions, and Dr. Alexa Lampkin, assistant professor and a director of admissions. It targets rising sixth- through eighth-graders who either live in rural areas, are the child of a first-generation high school or college graduate, or who are from an underrepresented minority group in dentistry. More than 200 children applied for the program's 30 slots.



- The School of Nursing was named one of the 10 best nursing schools for men in the United States by the American Association for Men in Nursing.
- Dr. Loretta Jackson-Williams, vice dean of the School of Medicine, was recognized for her career as a physician-educator by receiving the Career Educator Award from the Southern Group on Educational Affairs – the organization's highest honor.
- Students completing rotations at UMMC Grenada benefitted from refurbished space, including a student lounge and a conference room with computers and other learning technology. The renovations were provided through federal grant funding for the IMPACT the RACE Rural Track Program.
- A crew of Medical Center students, staff and physicians, along with faculty from several campus schools, worked with Jackson State University to present the inaugural Pre-Med Day, a bid to encourage more African American students to choose careers in medicine, as well as other health professions.
- The Office of Continuing Health Professional Education has earned reaccreditation with commendation from the Accreditation Council for Continuing Medical Education (ACCME). The accreditation is a significant honor that recognizes the hallmark of excellence in continuing health professional education.







- Mississippi State University students pursuing a degree in nursing now have a new route to the UMMC School of Nursing through a partnership that allows completion of a degree in interdisciplinary studies at MSU alongside a UMMC nursing degree. This new dual-degree route furthers options for those desiring to enter the nursing profession, which is in high demand and a source of high-quality employment opportunities.
- Mosaic Summer Enrichment Program brought high schoolers from rural schools or counties to the Medical Center, illuminating for them the literal and figurative heart and brain of a multitude of health care careers. Mosaic was sponsored by IMPACT the RACE, which is committed to improving access to primary care in the state's rural communities through education.
- The UMMC School of Nursing is the top-ranked Bachelor of Science in Nursing program in the state, according to rankings from U.S. News & World Report. The BSN programs at the Jackson and Oxford locations were 67th in U.S. News & World Report's ranking, tying with undergraduate nursing programs including Florida State University, Texas Tech University Health Sciences Center-Lubbock, Texas Christian University, the University of Arkansas, the University of North Carolina's Charlotte and Greenville campuses, the University



- of Nevada-Las Vegas and Auburn University. About 660 BSN programs are ranked each year so that puts UMMC's baccalaureate nursing programs just outside the top 10 percent in the country.
- Addressing all of a patient's needs that can be taken care of in one visit is the goal of a new School of Dentistry pilot program. Its focus is integrated patient care by empowering students to efficiently embrace multiple oral health issues at a time.
- The School of Medicine hosted its first-ever Hispanic Day, attracting students from across the state. The school recruited UMMC faculty and several of the Medical Center's 3,000 students to represent a variety of health professions.
- One of the nation's largest and most selective collegiate honor societies grew larger when scholars at the University of Mississippi Medical Center joined the Honor Society of Phi Kappa Phi, naming 39 UMMC students from five Medical Center schools as 2022-2023 initiates.
- The School of Medicine hosted its second statewide rural medicine education symposium, drawing faculty residents, students and rural physicians together to discuss issues in providing care.

Leading in Education:

- Established The Academy for Excellence in Education, focused on enhancing the learning environment, supporting and recognizing educators and promoting innovation, leadership and scholarship.
- Establishment of *Forever Learning*, a collaboration with the Office of Alumni Affairs and the Office of Academic Affairs, designed to engage the alumni community.
- Dr. Alexa Lampkin, assistant professor and a director of admissions in the School of Dentistry, was confirmed by the Mississippi Senate to a seat on the state Board of Dental Examiners, becoming the only dental school faculty member and first woman dentist to serve on the board in its history.
- Dr. Alaina Herrington, an assistant professor in the School of Nursing and director of the Judith Gore Gearhart Clinical Skills Center in the School of Medicine, was selected for Fellowship in the American Academy of Nursing.
- Dr. Michael Garrett, professor of pharmacology, was named chair of the Department of Cell and Molecular Biology.
- Dr. Kristi Moore, chair and professor of radiological sciences in the School of Health Related Professions, has been named the Most Effective Radiologic Sciences Educator for 2022 by AuntMinnie.com.
- Dr. Babette LaMarca was named chair of the Department of Pharmacology and Toxicology.
- New academic leadership was announced:
 - Dr. John C. “Jay” Garner, dean of the School of Health Related Professions;
 - Dr. Sydney Murphy, dean of the School of Graduate Studies in the Health Sciences;
 - Dr. Hanna Broome, chief student affairs officer;
 - Dr. Penni Foster, associate chief student affairs officer;
 - Dr. Risa Moriarity, associate chief faculty affairs officer;
 - Dr. Kim Adcock, director of the Office of Interprofessional Education;
 - Dr. Robin Thompson, director of the Office of E-Campus.



A healthcare worker, likely a nurse or technician, is shown in a clinical setting. She is wearing a yellow protective gown, a bright orange surgical mask, and safety glasses. On top of her glasses, she has a head-mounted display (HMD) with two small cameras or sensors. She is looking towards the camera with a focused expression. In the foreground, the head of a patient is visible, lying on a bed. The patient has a clear nasal cannula and a green ECG lead attached to his forehead. The background shows a computer monitor displaying medical data and other hospital equipment.

Caring for
Mississippians

Patient Care Achievements

Whether it's a mother with a high-risk pregnancy or patients requiring advanced medical treatment, the University of Mississippi Medical Center stands ready to respond to the state's health care needs. We continually evaluate and expand our statewide health care delivery system to offer services found nowhere else in Mississippi. Our skilled caregivers are dedicated to serving patients and helping them on their journey to healing and good health. We have made important progress in our goal of expanding access to high-quality care, and we expect to continue our work toward creating a healthier state.



400 and counting: UMMC's liver transplant program continues to shine

The University of Mississippi Medical Center performed its 400th liver transplant May 28, marking a significant milestone in the revitalization of abdominal transplant in 2013 at the state's sole academic medical center. UMMC's vast multidisciplinary liver care has been nationally recognized, with the transplant program's outcomes in 2022 being listed in the top three by the Scientific Registry of Transplant Recipients, a federally controlled organization that compares 148 transplant centers nationwide.



Transplant hepatologist Dr. Laura Smart checks the heartbeat of liver transplant recipient Randal Russell during a follow-up appointment.

UMMC designated as a Mississippi Burn Center by Department of Health

The Mississippi State Department of Health has designated the University of Mississippi Medical Center as a Mississippi Burn Center.

Department of Health officials reviewed UMMC's application for designated burn center status and visited the campus to assess compliance with the rules and regulations of the Mississippi Trauma Care System and standards of care.

"We are pleased that the University of Mississippi Medical Center has been deemed qualified to provide the level of multidisciplinary care required for burn treatment," said Dr. Peter Arnold, professor of surgery

and chief of the Division of Plastic and Reconstructive Surgery. "The depth of medical skills and resources of an academic medical center make UMMC uniquely qualified and an ideal location for burn treatment in the state."

As the state's only Level I trauma center, UMMC has a multifaceted care team for burn patients that will include specialists in emergency medicine and trauma surgery, as well as several sub-specialties in plastic surgery, critical care, laboratory medicine, mental health, occupational therapy and physical therapy.

- The Medical Center celebrated the 30th anniversary of the state's sole program providing bone marrow transplants to patients of all ages. Since the program began in 1992, UMMC has performed more than 1,700 bone marrow transplants now averaging about 75 a year, an average 15 of those are pediatric.
- UMMC was the first hospital in the Jackson area to be redesignated as a Baby-Friendly Hospital and the second in the state to reach the milestone.
- The first pediatric patient in Mississippi to use the Maxframe Autostrut multi-axial correction system was at UMMC. Approved by the U.S. Food and Drug Administration in 2022, it is the first fully automated orthopaedic implant in the world. Dr. Kellie Leitch, professor and chief of pediatric orthopaedics and rehabilitation, was among a handful of surgeons around the country to train on the robotics device.
- Mississippi has seen a dramatic rise in early childhood developmental and behavioral health screenings, a goal of Mississippi Thrive!, an innovative partnership between the University of Mississippi Medical Center and Mississippi State University's Social Science Research Center. Mississippi is now 34th in the country in childhood developmental screenings, with a 15.5 percent rise in the screenings that will pinpoint developmental or behavioral health problems in young children and connect them to treatment, so they're prepared for school.
- The Medical Center is helping to fill a neurology gap with a first: offering inpatient telehealth services. UMMC neurologists are conducting live telehealth visits with patients at South Central Regional Medical Center in Laurel.
- Treating pain in children is the focus of the transdisciplinary pediatric pain clinic opened at the Kathy and Joe Sanderson Tower at Children's of Mississippi. The clinic is the first of its kind in Mississippi and the 56th in the country.
- The Medical Center was awarded a two-star rating from the Society of Thoracic Surgeons for its patient care and outcomes in aortic valve replacement and stand-alone coronary artery bypass grafting. STS star rating system is one of the most sophisticated and highly regarded overall measures of quality in health care.
- The Medical Center's inpatient Epilepsy Monitoring Unit, the only one of its kind in the state, observes a patient with seizure-like episodes 24/7 via video, intercom and continuous EEG and EKG.
- The UMMC Police and Public Safety Department's Behavioral Response Team was designed to reduce the number of workplace violence incidents and injuries to patients, employees, students and visitors.





UMMC helps Ladner family welcome rare set of quintuplets

The Ladner family grew from two to seven Feb. 16 when Haylee and Shawn welcomed the birth of quintuplets at Wiser Hospital for Women and Infants at the University of Mississippi Medical Center.

“Haylee’s pregnancy was quite rare,” said Dr. Rachael Morris, associate professor of maternal fetal medicine, who provided prenatal care and delivered the babies. “She had a quintuplet pregnancy with four identical females. Reports of spontaneous quintuplets vary but are about 1 in 60 million. There are very few reports of identical quadruplets in the literature to date. Reported incidence is 1 in 10 to 15 million pregnancies. There

is only one other report of this combination in the literature from 2018.”

Adalyn Elizabeth was born at 9:19 a.m. at 2 pounds, 2 ounces and 13.38 inches long. Following her were Everleigh Rose at 9:20 a.m., 2 pounds, 0.8 ounces, 12.59 inches; Malley Kate at 9:21 a.m., 1 pound, 11 ounces, 12.99 inches; Magnolia Mae at 9:22 a.m., 2 pounds, 2 ounces, 13.18 inches; and Jake Easton at 9:23 a.m., 2 pounds, 5 ounces, 13.77 inches.

All were born by Caesarean section and fared well for their gestational age of 28 weeks and one day at birth. All babies are currently thriving at home.

Additional patient care achievements:

- Made possible through private gift, significant renovations are coming for Children's of Mississippi's Center for Cancer and Blood Disorders. Updates will add more space, privacy and comfort to the infusion area and will increase the number of exam rooms for families.
- The app MyChart Bedside was made available to patients or family members in pediatric intensive care in the Sanderson Tower and in inpatient medical-surgical units inside the Batson Tower at Children's of Mississippi. Patients and parents can view medical information through MyChart, see the day's schedule, watch informational videos, stream movies or play games. Also included are names and photos of patients' care team members, which can be helpful for children and parents who may be meeting a lot of health care professionals in a short amount of time.
- The growing number of diverse initiatives from the Office of Well-being and its departmental partners has been recognized nationally by the American Medical Association with its Joy in Medicine Health System Recognition Program. Joy in Medicine guides organizations interested, committed or already engaged in improving physician satisfaction and reducing burnout.
- The Medical Center's bariatric surgery program was re-accredited by the American College of Surgeons as a Comprehensive Metabolic and Bariatric Surgery Center. The national accolade comes from the college's Metabolic and Bariatric Surgery Accreditation and Quality Improvement Program.
- A \$6 million federal grant awarded to the Medical Center is making possible more drug and alcohol addiction services statewide to directly help those fighting increasingly deadly substance abuse. The award comes from the U.S. Department of Health and Human Services Substance Abuse and Mental

Health Services Administration. It makes possible new services ranging from expanded substance abuse telemedicine to real-time information on what residential treatment centers have available beds.

- UMMC performed an abdominal procedure that eliminates tumors while sparing organs, arteries and nerves perilously close to the cancerous growths. It's called intraoperative radiation therapy, or IORT, an intensive radiation treatment administered during surgery. IORT allows direct radiation during surgery to the target area without disturbing healthy surrounding tissues.



- The American Cancer Society honored four Medical Center faculty at its annual awards: Dr. Pierre de Delva, director of thoracic oncology and program director of thoracic surgery residency, Jonathan Hontzas, a nurse practitioner, clinical programs director of the ACT Center for Tobacco Treatment, Education, and Research, and co-director of the Lung Cancer Early Detection Program; Dr. Sarah Jones, associate professor of pediatrics; Dr. Barbara Craft, professor of medicine in the Division of Oncology and director of the Breast Cancer Treatment and Prevention Program and UMMC Cancer Center and Research Institute medical director for University Physicians.



Leading in Health Care:

- Dr. Sara Gleason, a professor in the Department of Psychiatry and Human Behavior, was named assistant vice chancellor for clinical affairs.
- Dr. Rodney Rocconi was named the director of the UMMC Cancer Center and Research Institute and Ergon Chair of Cancer Foundation.
- Dr. Matthew Graves, professor of orthopaedic surgery and the Hansjörg Wyss AO Medical Foundation Chair of Orthopaedic Trauma, was named chair of the Department of Orthopaedic Surgery.
- Dr. Lisa Didion, professor of pediatrics and a pediatric hospitalist, was named the chief medical officer.
- Dr. Phyllis Bishop was named the Paul Parker Chair of Pediatric Gastroenterology.
- Dr. Michelle Goreth, a certified pediatric acute care nurse practitioner in the Division of Pediatric Neurology, was named the 2022 Pediatric Nurse Practitioner of the Year for the National Association of Pediatric Nurse Practitioners (NAPNP) e-Chapter.
- Dr. Josie Bidwell, a lifestyle medicine nurse practitioner and associate professor in the Department of Preventive Medicine, was selected a Fellow of the American College of Lifestyle Medicine.
- The American Academy of Pediatrics presented Dr. Charlotte Hobbs, professor of pediatric infectious diseases, and Dr. Gail Megason, professor of pediatric hematology and oncology, with the AAP Special Achievement Award, which is given to recognize the outstanding achievements of individuals or AAP chapters.
- Dr. Joshua Mann, professor and chair of the Department of Preventive Medicine, was elected chair of the Preventive Medicine Review Committee of the Accreditation Council for Graduate Medical Education (ACGME). ACGME accredits sponsoring institutions and residency and fellowship programs, confers recognition on additional program formats or components, and dedicates resources to initiatives addressing areas of importance in graduate medical education.
- Dr. Kendall McKenzie, professor and chair of the Department of Emergency Medicine, was tapped for service on a U.S. Department of Transportation advisory panel. McKenzie will serve a two-year term as the emergency physicians sector representative on the DOT's National Emergency Medical Services Advisory Council (NEMSAC).
- Dr. Zeb Henson was named chief of medical staff.
- Clinical Affiliations:
 - Active Clinical Affiliations during 2022-2023
 - Anderson Regional Medical Center; Gulfport Memorial Hospital; Affinity Medical Group/Vantage Health; North Mississippi Medical Center; Southwest Mississippi Regional Medical Center; Hattiesburg Clinic; Methodist Rehabilitation Center; OCH Regional Medical Center in Starkville.

UMMC expands care to students, expectant moms, babies



The University of Mississippi Medical Center initiated several programs that extended our reach into the communities we serve. Two prominent programs were a first-responder training called STORK, which stands for Stabilizing OB and Neonatal Patients, Training for OB/Neonatal Emergencies, Outcome Improvements, Resource Sharing, and Kind Care for Vulnerable Families, and a school telehealth system for students in kindergarten through 12th grade.

In a state like Mississippi, where infant and maternal mortality ranks among the highest in the country, emergency responders, nurses and providers in small, rural hospitals often must deliver pre-term babies and work to save the lives of mothers who can experience a plethora of life-threatening complications before and after giving birth.

They need the tools to stabilize a mom or baby in trouble - to keep them alive - until they are transported to a higher level of care. The Medical Center is making that happen by taking hands-on training directly to those who need it the most.

A team of UMMC providers, led by Dr. Rachael Morris, associate professor of obstetrics and gynecology, is blanketing the state with both classroom-style instruction and real-life scenarios using sophisticated simulation moms and babies who talk, cry, scream, breathe and register vital signs such as heartbeat and rate of respiration. UMMC's Mississippi Center for Emergency Services is using a grant from the W.K. Kellogg Foundation to carry out STORK.



Health care access is a click away for students, thanks to a \$17.6 million grant from the Mississippi Department of Education and care through the School of Nursing and Center for Telehealth at UMMC.

School-based Telehealth

The grant created a telehealth delivery system within kindergarten through 12th grade schools to make care ranging from urgent care to behavioral health care available to students during school hours. The funding is provided through the American Rescue Plan Elementary and Secondary School Emergency Relief III.



Health
Research
Exploration

Research Accomplishments



Funding awarded

\$96.8M

(83% federal; 12% industry; 3% private organizations; 2% state and foreign sources)

311 awards



350

funding submissions



58

clinical trials activated



UMMC researchers authored

1,176 peer-reviewed papers

(210% increase over 10 years; 31% increase over five years)

Intellectual Property



11 invention disclosures



4 patent applications filed



2 patents granted

Research Achievements:

- The Memory Impairment and Neurodegenerative Dementia (MIND) Center launched its landmark UMMC MIND Center-Mayo Clinic Study of Aging after surpassing its \$5 million private fundraising goal thanks to strong philanthropic support. Building on over two decades of research collaborations with investigators at Mayo Clinic, this study seeks to provide critical answers for Alzheimer's disease, one of the most complex, costly and heartbreaking diseases of our time. Several thousand Mississippians, age 55 and older, will be recruited and followed over the course of their lifetime in this important project which will lead to greatly improved early diagnosis, a better understanding of disease mechanisms and factors underlying disparities by race and geographic region, enhanced strategies of prevention and treatment for Alzheimer's and dementia, as well as improved ways to protect brain and physical function as we age.
- A three-year clinical trial conducted at four study sites, including The Memory Impairment and Neurodegenerative Dementia (MIND) Center at UMMC, found that using hearing aids to treat hearing loss in older adults at increased risk for dementia slowed the rate of cognitive decline by 48% over a three-year follow-up period relative to a control group. The key findings of the Aging and Cognitive Health Evaluation in Elders (ACHIEVE) Study were published in Lancet earlier this year and presented at the Alzheimer's Association International Conference in Amsterdam. The randomized, controlled trial began in 2018 and recruited 977 participants aged 70 to 84 with 243 from The MIND Center. Treatment of hearing loss may be a low-risk intervention for slowing cognitive decline in older adults at increased risk for cognitive decline.
- A new center will arm researchers with tools to study health and diseases at the molecular level - where they start - with the goal of developing new treatments. The Molecular Center of Health and Disease, funded by an \$11.5 million Centers of Biomedical Research Excellence (COBRE) grant, will help scientists better understand genetic susceptibility and factors that cause disease, enabling them to create earlier interventions and cures.
- New research showed that the two main methods of assessing kidney function provide substantially different results in about half of patients, which could lead to missed opportunities to prevent or manage renal disease. The paper was published in the Annals of Internal Medicine. Co-lead author of the paper is Dr. Tariq Shafi, professor of medicine and John D. Bower Chair of Nephrology at UMMC.
- Dr. Lei Zhang, professor and associate dean for research and scholarship in the School of Nursing, received two grants: \$5.5 million from the National Institutes of Health to establish the Mississippi Violence Injury Prevention Program and \$2 million from the Department of Health and Human Services to help prevent domestic violence against women.
- Dr. Kedra Wallace, associate professor in the Department of Pharmacology and Toxicology, received a \$1.15 million, five-year Science Diversity Leadership Award from the Chan Zuckerberg Initiative. She was among 25 awardees recognized by the Initiative, which supports science, technology and education to cure, prevent and manage diseases by the end of the 21st century and fosters collaboration between scientists and engineers, among other goals.
- The Medical Center recognized 23 faculty and staff members during its annual Excellence in Research Awards ceremony. In its 23rd year, the ceremony celebrate investigators most successful at securing extramurally funded original research during their careers at UMMC.

UMMC awarded NIH funding to help improve newborn health outcomes



The University of Mississippi Medical Center has been selected to join a network of medical centers studying ways to improve health outcomes for newborns.

As part of the Neonatal Research Network, UMMC will work with 14 other centers across the country over the next seven years to conduct collaborative, multi-site clinical trials and observational studies on newborn infants, providing evidence to guide clinical practice. The network is funded by the Eunice Kennedy Shriver National Institute of Child Health and Human Development, part of the National Institutes of Health. The Medical Center will receive nearly \$2.1 million in funding.

“UMMC has received international recognition by joining this group of other reputed academic centers across the U.S.,” said Dr. Abhay Bhatt, professor of pediatrics and director of research in the Division of Neonatology, and the study’s principal investigator.

Other network members include Duke University, Emory University, Stanford University and Cincinnati Children’s Medical Center.

“Our faculty and trainees will get the opportunity to collaborate with their counterparts in other institutions, and our scientists, in collaboration with our newborn faculty, will get the opportunity to develop funded translational research studies involving newborns,” said Bhatt.

Dr. Mobolaji Famuyide, chief of pediatric neonatology and alternate principal investigator, supported Bhatt through the competitive process of joining the network, which required the interdisciplinary teamwork of many.

“Having our division in the NRN is a dream come true,” said Famuyide. “In Mississippi, we serve a unique population with significant health care needs and who are underserved.

“This allows this cohort to benefit from novel medical interventions and practices and to contribute to neonatal literature. It also affords our junior faculty with a desire for a research career the opportunity to be involved in NIH-funded studies and the prestige that comes with that.”

This is a “monumental achievement” for UMMC, said Dr. Courtney Walker, assistant professor of psychiatry and follow-up principal investigator, as is Mississippi’s representation in the network.

“We have the highest preterm birth rate in the country, and being a part of the NRN gives infants and their families the opportunity to be a part of cutting-edge treatment and management strategies that they may not have access to otherwise.”



- A MIS-C study that includes research from UMMC was a winner in the Prevention and Control Category of the prestigious annual Charles C. Shepard Science Award from the U.S. Centers for Disease Control and Prevention.
- The Medical Center is participating in the RheSolve Study, which is investigating the safety and effectiveness of bronchial rheoplasty for the treatment of chronic bronchitis in adult COPD patients. UMMC is one of 40 centers in the United States, Canada and Europe selected.
- Dr. Matthew Morris, associate professor of psychiatry and human behavior, is principal investigator of a five-year, \$3.3 million study to examine how social and biobehavioral factors contribute to a greater risk of transitioning from acute to chronic pain following a traumatic orthopaedic injury in Black patients compared to white patients.

- The UMMC Biobank received accreditation from the American National Standards Institute's National Accreditation Board.

Leading in Research:

- Dr. Denise C. Cornelius, associate professor of emergency medicine, was selected early-career representative on the Board of Directors at the Federation of American Societies for Experimental Biology.
- Dr. Jason Griggs, professor of biomedical materials science, was recognized by the International Association of Dental Researchers (IADR) with its Wilmer Souder Award.
- Dr. Gene "Lee" Bidwell was named associate vice chancellor for research.
- Dr. Caroline Compretta was named assistant vice chancellor for research.

UMMC donor support shines light on the importance of the mission

Gifts to the University of Mississippi Medical Center over the last year served diverse purposes but all in support of a singular mission: to improve the health and well-being of Mississippians.

From funding life-changing medical and research pursuits to improving faculty recruitment and the clinical spaces where children receive care, the steadfast generosity of donors reached new heights. The state's only academic medical center received the highest level of philanthropic support to date, representing donations large and small to further the three-part mission of health care, research and education.

"We are incredibly grateful for the philanthropic support we received over the past year. Each gift makes a difference," said Meredith Aldridge, executive



director of development. "We are honored by and ever-mindful of the trust our donors place in the Medical Center, and we will continue to strive for excellence in meeting our shared vision for a healthier Mississippi."

The Memory Impairment and Neurodegenerative Dementia (MIND) Center received two substantial gifts this year to further research, including one of its largest philanthropic gifts ever. Fred Rodgers Adams Jr.'s legacy of philanthropy, entrepreneurship and humility will continue through a \$10 million gift from Jean Reed Adams, who made the donation in honor of her late husband. Fred died in 2020 at age 88.

ADDITIONAL ANNUAL GIFTS OF \$1,000,000 AND ABOVE

BOWER FOUNDATION

CHILDREN'S MIRACLE NETWORK HOSPITALS

PACCAR FOUNDATION

ROBERT M. HEARIN FOUNDATION

A \$3 million gift is shining a bright light on the most advanced cleft and craniofacial treatment available to Mississippi's children through the Children's of Mississippi Stephanie and Mitchell Morris Center for Cleft and Craniofacial Research and Innovation.

An endowment also will be created to support the center and its research and care, and a genetic counselor will spend more time seeing patients of the craniofacial program, which, like the cleft program at Children's of Mississippi, is the only one of its kind in the state with accreditation from the American Cleft Palate-Craniofacial Association.

After helping make the Kathy and Joe Sanderson Tower at Children's of Mississippi a reality, Priscilla and David O'Donnell were inspired to give again - a \$1.5 million gift toward the renovation of the Blair E. Batson Tower.

The couple's 2017 gift of \$1 million created the Priscilla and David O'Donnell Pediatric Intensive Care Unit Cardiac Wing located in the Sanderson Tower. The unit includes 12 dedicated cardiac beds for

management of medical and surgical care, including pre- and post-operative, for children with congenital heart defects.

The O'Donnells' new commitment supports the renovation of the cardiac stepdown and medical-surgical floor in the Batson Tower. The tower named for Dr. Blair E. Batson, the first pediatrics chair of the Medical Center, was opened in 1997 and is home to the medical-surgical units of the state's only children's hospital.

Endowed professorships are the hallmark of leading higher education institutions. Gifts establishing endowed faculty positions support faculty in their research and buoy retention and recruitment of faculty who are leaders in their field.

A \$1 million gift from Friends of Children's Hospital is creating a chair in honor of one of the state's leaders in pediatrics, Dr. Owen B. "Bev" Evans, and his wife, Lynn. The two, along with several community volunteers, were instrumental in founding the nonprofit.



Drs. G. Rodney and Sara M. Meeks



Priscilla and David O'Donnell

Dr. Colette Parker, chief of the Division of Pediatric Neurology, is the first to hold the Dr. Owen B. and Lynn M. Evans Chair of Pediatric Neurology.

Suzan B. Thames was among the supporters of the Center for Cancer and Blood Disorders at Children's of Mississippi when it was a dream on the drawing board of the Medical Center's first pediatric hematologist-oncologist physician. Thames is still showing her support for the center by making a \$1 million donation toward its renovation. The gift will create the Dr. D. Jeanette Pullen Childhood Cancer and Blood Disorders Research Laboratory and Office within the center.

The Drs. G. Rodney and Sara M. Meeks Endowed Chair in Obstetrics and Gynecology, announced during a celebration in Jackson, became the 27th fully endowed chair at the University of Mississippi Medical Center. Rodney Meeks, professor emeritus of obstetrics and gynecology at UMMC, inscribed his name in UMMC's history book thanks to a 35-year career of achievement at the Medical Center,

not counting his years as a medical student – he graduated in 1974.

Twenty-four hours of broadcasting added up to \$401,703 raised during the 22nd annual Mississippi Miracles Radiothon. Radiothon donations raise funds for items that contribute to the care and comfort of patients and their families. During the past 22 years, more than \$7.94 million has been raised.

Dea Dea Adams Baker, daughter of Fred Adams, said most of her father's cousins also developed dementia in their later years. She wanted to lend her support to The MIND Center by donating \$1 million to establish an endowed professorship in honor of her father, and mother, Dorothy "Dot" Adams, who died in 1993, and her aunts and uncles who died of dementia.

The recipient of the professorship, Dr. Michael Griswold, professor of biostatistics and data science, and director of The MIND Center's science, evidence and technology core, is among the best in his field and has significantly impacted all research at The MIND Center.



Dr. Bev Evans



Dea Dea Adams Baker and Dr. Michael Griswold

Organizational Achievements

- Jennifer Sinclair was named chief financial officer.
- Kevin Yearick was named chief information officer.

Diversity, Equity and Inclusion

The University of Mississippi Medical Center has made diversity, equity and inclusion an important aspect of our three-part mission of education, research and health care. We recognize it in all its many facets relating to students, faculty and staff. We are proud of the work we have done to offer all the opportunity to succeed and to enjoy a healthy life. The following reflects some of the work we've done over the past year:

- Children's of Mississippi Child Life Team received the DEI Champion Award from the Starlight Foundation and received accessible and inclusive



toys for pediatric patients as well as wheelchair covers and accessories for imaginative, interactive play to meet the needs of diverse patient populations.

- The UMMC Health System expanded its nursing workforce through a partnership with AMN Healthcare's International Nurse recruitment staffing program with a goal of hiring 300 international nurses in the next few years.
- The Biomedical Sciences Master's Program in the School of Graduate Studies in the Health Sciences significantly increased enrollment of historically underrepresented minority (URM) students to 40% in AY2023 compared to 20% in AY2018.
- The number of lactation spaces for nursing mothers significantly increased to 12 identified UMMC campus locations.
- The School of Nursing was recognized among the top ten best schools for men according to the American Association for Men in Nursing (AAMN).
- For the fourth consecutive year, the School of Pharmacy, in partnership with the American Association of Colleges of Pharmacy (AACP), hosted the national Equity, Diversity and Inclusion (EDI) Institute.
- Student volunteers at the Jackson Free Clinic significantly increased gynecological and women's primary health care to the underserved - representing a 104% increase in related health services compared to the prior year.
- University of Mississippi Medical Center Police and Public Safety Department joined "30X30," a national initiative and first in the state, with the goal of increasing the experiences and representation of women in policing.

‘That’s what we do in Mississippi’: Medical Center responds to tornado

Many of the University of Mississippi Medical Center faculty, staff and students raced to Rolling Fork in Sharkey County and other Mississippi Delta towns in March to help victims of a devastating storm.

As noted by Dr. LouAnn Woodward, vice chancellor for health affairs and dean of the School of Medicine, who stated at the time: “We have deployed UMMC resources to support the heroic local effort in collaboration with [the Mississippi Emergency Management Agency] and [the Mississippi State Department of Health], and we will monitor the medical and health care needs of the impacted areas to lend support in all ways possible.”

Shortly after the tornado raked through Sharkey County, several medical students were among those who drove up from Jackson. Those providing aid included UMMC nurse practitioners, physicians,

administrators and others. AirCare was also deployed to the scene.

UMMC’s School of Nursing, which has operated school-based clinics in Rolling Fork for a decade, traveled with a mobile health unit to help the community.

“We’ve been in the Rolling Fork community for a decade, so we know families here and they know us,” said Dr. Anne Norwood, professor of nursing and associate dean for practice and partnerships. “We are here for them in good times and bad. It’s part of our commitment to the community.”





Serving the Community

UMMC helps communities in our state in several ways:

- Caregiver University (CGU) is a free community education program provided by the UMMC MIND Center for family caregivers of persons with Alzheimer’s disease and related dementias. Offered on a quarterly basis, CGU offers 18 educational sessions taught by experts from The MIND Center and other UMMC departments as well as by partner organizations providing dementia care and support services in Mississippi. In partnership with UMMC’s Center for Telehealth and supported by a grant from the Office for the Advancement of Telehealth, Health Resources and Services Administration, an increased number of participants from diverse populations across Mississippi and the continental United States “graduated” from Caregiver University over the past year.
- Project REACH (Reaching Education and Changing Healthcare) is a partnership between the School of Graduate Studies in the Health Sciences and Barack H. Obama Magnet Elementary. The program was created to enrich the teaching and learning of science at the International Baccalaureate School, exposing underrepresented students to medical sciences careers and creating a pool of Mississippians equipped to serve the state’s health care needs.
- The annual See, Test and Treat program offers free mammograms, cervical and oral cancer screenings to women who qualify. In 2023, 60 women received their results the same day, and those with positive screenings were connected to resources for follow-up care.

- Partnering with community optometrists, the Mississippi Vision Foundation and others, the Jackson Free clinic has expanded its services once again to fill a gap and treat the whole patient, by expanding services to vision care. JFC offers free medical, dental and psychiatric services, physical therapy and occupational therapy on Saturdays to uninsured patients ages 18 and up in the Jackson metropolitan area. Its newest in-house addition, the Vision Clinic, operates several times monthly, based on availability of a partnering community optometrist.
- The team from Project ADAM, a national program offered in Mississippi by the Children's Heart Center at Children's of Mississippi, trained faculty and staff at the Mississippi Schools for the Deaf and Blind in hands-only CPR and using defibrillators. The campus is the first in the state to join Project ADAM, and Dr. Charles Gaymes, professor of

pediatric cardiology at the University of Mississippi Medical Center, a cardiologist with the Children's Heart Center and Project ADAM's medical director, hopes schools around the state will follow their lead.

- Teddy bears and footballs, fashion dolls and coloring books, sleepers for babies and T-shirts for teens - all these and more were collected for the Children's of Mississippi Safe Center by student advocates for children who survived trauma, abuse or neglect.
- Nearly 800 Mississippians received basic and specialized care during Dental Mission Week, an annual event since 2017. The effort involves volunteers from the schools of dentistry, nursing, health related professions and medicine, along with dentistry and dental hygiene students, volunteer dentists and staff from local practices.



FINANCIAL RESULTS

HEALTH SYSTEM OPERATING STATISTICS

Health System (includes Grenada and Lexington)	June 30, 2023	June 30, 2022	June 30, 2021
Admissions (exc. Newborns)	30,423	29,115	30,032
Newborn Deliveries	2,076	1,647	1,664
Patient Days	230,348	223,270	223,662
Hospital Clinic Visits	234,889	211,994	197,375
Emergency Dept. Visits	117,093	107,940	99,865
Surgeries - Inpatient	12,130	11,306	12,077
Surgeries - Outpatient	19,108	16,922	15,749
Univ. Physicians Clinic Visits	526,149	499,256	554,824
New Patient Visits	79,065	73,587	69,395
Jackson Campus and UP only	June 30, 2023	June 30, 2022	June 30, 2021
Admissions (exc. Newborns)	28,380	27,189	28,032
Newborn Deliveries	1,711	1,413	1,409
Patient Days	220,522	212,787	212,246
Hospital Clinic Visits	173,694	153,350	138,979
Emergency Dept. Visits	90,860	85,655	79,477
Surgeries - Inpatient	11,699	10,950	11,671
Surgeries - Outpatient	17,638	15,594	14,383
Univ. Physicians Clinic Visits	526,149	499,256	554,824
New Patient Visits	79,065	73,587	69,395

In fiscal year 2023, UMMC posted a \$5.6 million positive net margin, which exceeded the budget by \$4.9 million. While UMMC did continue to experience the impact of rising costs for contract labor and supplies, the drastic inflationary increases experienced in fiscal year 2022 did begin to stabilize in fiscal year 2023.

Operating revenue exceeded budget by \$46.7 million, which was primarily related to patient care revenue exceeding budget by \$47.1 million. The increase in patient care revenue can be attributed to outpatient surgical procedures and outpatient clinic visits exceeding budget, in addition to better than anticipated disproportionate share payments

and continued growth in retail pharmacy services. Grants revenue is favorable as compared to budget by \$6.9 million due to growth in new grants and utilization of existing grants.

Investment income of \$12.5 million exceeded budget by \$11.7 million. The improvement in investment income can be attributed to favorable market conditions as rising interest rates generated returns on cash investments and endowment values.

Operating expenses exceeded budget by \$40.6 million. This unfavorable result is primarily driven by

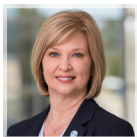
an excess of contract labor costs. Supply expenses exceeded expectations, which is primarily attributed to patient volume increases and inflationary increases over planned increases.

Looking ahead into fiscal year 2024, UMMC budgeted for specific strategic initiatives designed to help improve access to care, streamline patient throughput and reduce the overall cost structure. The success of those initiatives is key to achieving the budgeted targets as UMMC continues to recover from the financial impact of the COVID-19 pandemic.

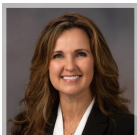
STATEMENT OF REVENUE AND EXPENSES

Revenues:	June 30, 2023	June 30, 2022	June 30, 2021
State Appropriations	\$186,924,508	\$170,192,799	\$167,469,574
Net Tuition and Fees	\$41,743,651	\$38,662,744	\$37,126,132
Grants	\$97,185,852	\$93,385,788	\$82,239,537
Patient Care Revenues	\$1,365,774,381	\$1,251,077,963	\$1,176,245,589
Federal Stimulus Funds	\$1,360	\$27,960,325	\$54,591,171
Gifts	\$8,650,457	\$19,205,027	\$14,140,085
Other Revenues	\$144,704,777	\$106,370,339	\$112,606,223
Total Revenues	\$1,844,984,986	\$1,706,854,985	\$1,644,418,311
Expenses:	June 30, 2023	June 30, 2022	June 30, 2021
Salaries, Wages and Fringe	\$1,025,720,286	\$993,060,357	\$968,760,695
Contractual Services	\$304,544,668	\$237,256,511	\$192,855,362
Commodities	\$386,715,554	\$360,872,552	\$342,906,222
Depreciation Expense	\$73,530,018	\$66,648,269	\$50,355,965
Other Expenses	\$50,031,685	\$40,478,363	\$38,257,225
Total Expenses	\$1,839,338,996	\$1,698,316,052	\$1,593,135,469
Net Income (Loss)	\$5,645,990	\$8,538,933	\$51,282,842

EXECUTIVE LEADERSHIP



LouAnn Woodward
*Vice Chancellor for Health Affairs
and Dean, School of Medicine*



Stacy Baldwin
Chief Integrity Officer



Lee Bidwell
*Associate Vice Chancellor
for Research*



Kristina Cherry
Chief Nursing Executive



Caroline Compretta
*Assistant Vice Chancellor
for Research*



Britt Crewse
*Chief Executive Officer,
Adult Hospitals*



Lisa Didion
Chief Medical Officer



Natalie Gaughf
*Assistant Vice Chancellor
for Academic Affairs*



Guy Giesecke
*Chief Executive Officer,
Children's of Mississippi*



Sara Gleason
*Assistant Vice Chancellor
for Clinical Affairs*



Loretta Jackson-Williams
*Vice Dean for Medical Education,
School of Medicine*



Alan Jones
*Associate Vice Chancellor
for Clinical Affairs*



Frank Lenior
Chief Human Resources Officer



Dodie McElmurray
*Chief Executive Officer,
Community Hospitals*



Scott Rodgers
*Associate Vice Chancellor
for Academic Affairs*



Marc Rolph
*Executive Director,
Communications and Marketing*



Brian Rutledge
Chief of Staff



Juanyce Taylor
Chief Diversity and Inclusion Officer

EXECUTIVE LEADERSHIP



William Smith
General Counsel



Jennifer Sinclair
Chief Financial Officer



Jonathan Wilson
Chief Administrative Officer



Kevin Yearick
Chief Information Officer

ACADEMIC DEANS



Thomas Dobbs
*Dean of the School
of Population Health*



John C. "Jay" Garner
*Dean of the School of Health
Related Professions*



Loretta Jackson-Williams
*Vice Dean for Medical Education,
School of Medicine*



Sreenivas Koka
Dean of the School of Dentistry



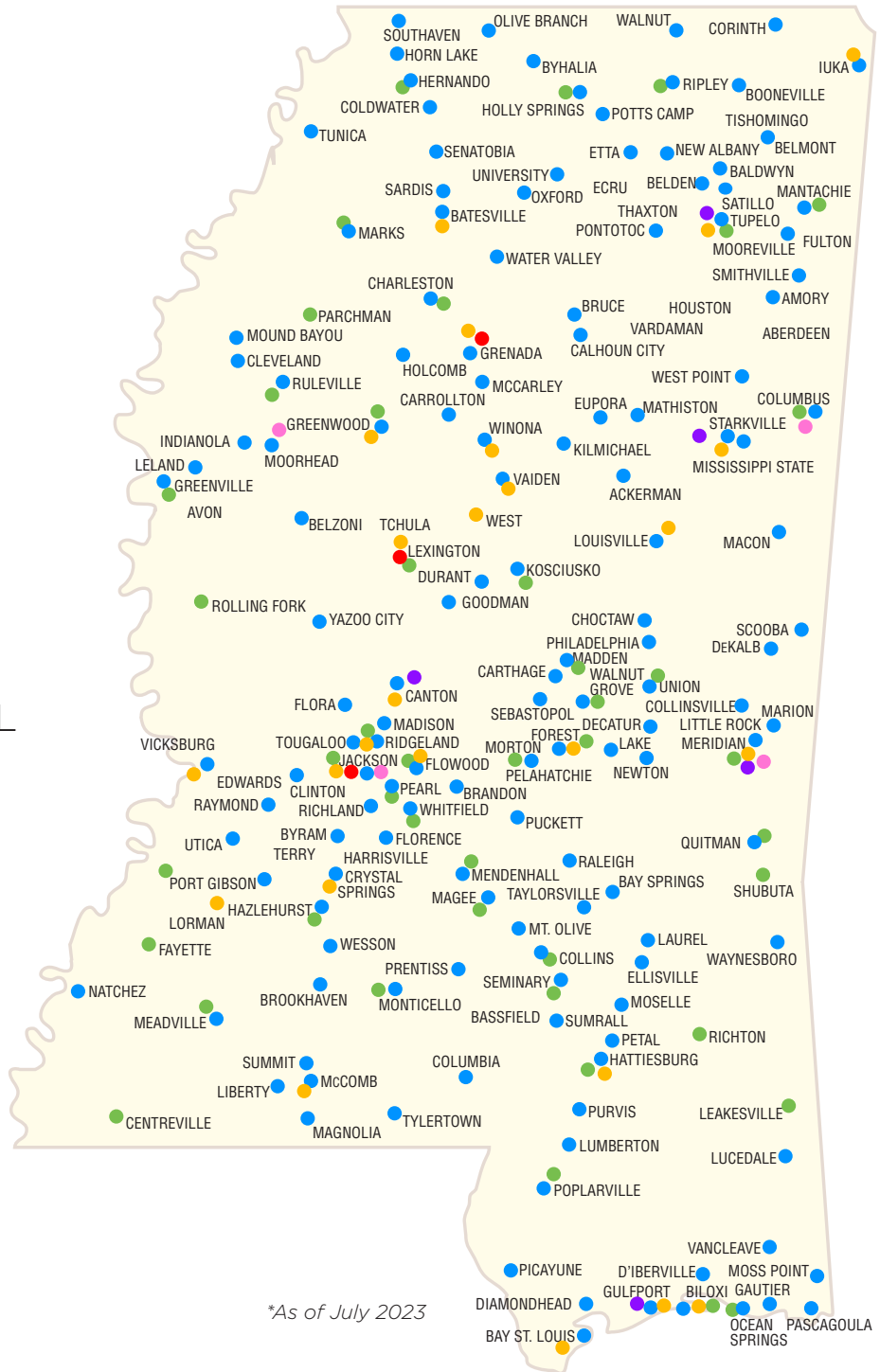
Tina Martin
Interim Dean of the School of Nursing



Sydney Murphy
*Dean of the School of Graduate
Studies in the Health Sciences*

UMMC PRESENCE ACROSS THE STATE

- LEARNERS
- TELEHEALTH
- CLINIC
- HOSPITAL
- AFFILIATED HOSPITAL
- HELICOPTER



*As of July 2023





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