



**2023
ANNUAL
REPORT**



UNIVERSITY OF IOWA
HEALTH CARE



University of Iowa Health Care is Iowa's comprehensive academic health system

UI Hospitals & Clinics
UI Roy J. and Lucille A. Carver
College of Medicine
UI Physicians



Our Mission
Changing medicine.
Changing lives.



Our Vision
To be a destination
academic medical
center for Iowa
and the world.



**Provides high-quality
primary and specialty care**
to patients and families
across Iowa and
throughout the region



**Teaches and trains
the next generation**
of physicians and
health care professionals



**Seeks discoveries that
advance understanding**
of human health and disease
and lead to new therapies
and treatments



**Offers programs and
services to communities**
that address identified
health needs and provide
measurable improvement
in health care access,
health status, and use of
health care resources



From left: **Patricia Winokur, MD**, executive dean, Carver College of Medicine; **Denise Jamieson, MD, MPH**, University of Iowa vice president for medical affairs and the Tyrone D. Artz Dean, Carver College of Medicine; and **Bradley Haws, MBA**, associate vice president, UI Health Care, and CEO, UI Hospitals & Clinics.

MISSION-DRIVEN FOR IOWA

To be mission-driven means to pursue excellence in all aspects of research, education, patient care, and community service.

It means transforming the way we understand and deliver health care and sharing that knowledge with future health care professionals. It means using our collective experience, resources, and expertise to serve patients, families, and communities.

It means delivering on our commitment to change medicine and change lives.

This is what Iowans expect from University of Iowa Health Care.

This is what drives us every day.



NEW LEADERSHIP

Mission-driven to advance UI Health Care

Denise Jamieson, MD, MPH, joined the University of Iowa in August 2023 as vice president for medical affairs and the Tyrone D. Artz Dean of the Carver College of Medicine. She came to Iowa from Atlanta, where she served as chair of the Department of Gynecology and Obstetrics at the Emory University School of Medicine.

Before that, she spent 20 years at the Centers for Disease Control and Prevention in a variety of leadership roles—for example, serving as incident manager during the CDC's Zika emergency response.

"What really appeals to me about UI Health Care are its people and its reputation," Jamieson says. "Also, we have a clear mission to serve 3.2 million Iowans across 99 counties. That's very compelling, and I'm inspired by that."

In November, **Bradley Haws, MBA**, returned to UI Health Care as associate vice president and CEO of UI Hospitals & Clinics. Haws, who came to Iowa from Emory Healthcare in Atlanta, served as chief financial officer for UI Health Care from 2018 to 2021.



Haws' return allowed interim CEO **Kimberly Hunter, DNP, MBA, RN, NEA-BC**, to return full time to her role as chief nurse executive for UI Hospitals & Clinics. As CEO, Hunter oversaw the hospital's successful review from The Joint Commission and its fifth consecutive Magnet designation from the American Nurses Credentialing Center. Hunter also led ongoing patient care workflow improvements and employee recruitment efforts.



“...WE HAVE A CLEAR MISSION TO SERVE 3.2 MILLION IOWANS...”



Jamieson succeeded **Brooks Jackson, MD, MBA**, who had served as vice president for medical affairs and dean since fall 2017. During his leadership tenure, Jackson oversaw increased extramural research funding; led modifications in patient care services, research, and education in response to the COVID-19 pandemic; created new medical education scholarship opportunities; and received approval to plan for capital projects as part of the university's 10-year facilities master plan.

MEDICAL EDUCATION AND TRAINING

Mission-driven to prepare tomorrow's health care professionals

SPOTLIGHT

TEACHING EMPATHY, TRANSFORMING CARE

As director of the residency training program in the Department of Internal Medicine, **Manish Suneja, MD**, consistently models how to take a useful medical history and outlines the process of clinical decision-making during inpatient rounds or noon conferences. He also models empathy—understanding another person's pain and suffering—which studies have found to be a critical component of transformative care.

Suneja, a nephrologist and clinical professor of internal medicine, was a co-author of a 2023 study, published in the journal *BMC Medical Education*, that assessed empathy levels and predictors of empathy among students at the Carver College of Medicine and other UI health sciences colleges. The study reported that students' empathy scores were linked to their perception of a faculty member's empathy levels toward students and patients.

"Teachers have to lead by example," Suneja says. "They provide a tangible example for students and trainees to observe and emulate."

Empathy is a critical skill that Suneja and others incorporate into their teaching and training programs. It helps identify a learner's strengths and areas for improvement. It also encourages them to consider each patient's perspective.

"It makes us more effective communicators," Suneja says, "allowing us to build trust and establish rapport, which becomes important for an accurate diagnosis, prescribing the right treatment plan, and adherence with that plan."



1,403

Faculty members



617

Medical students



74

Physician assistant students



155

Physical therapy students



783

Resident and fellow physicians and resident dentists



300+

Graduate students

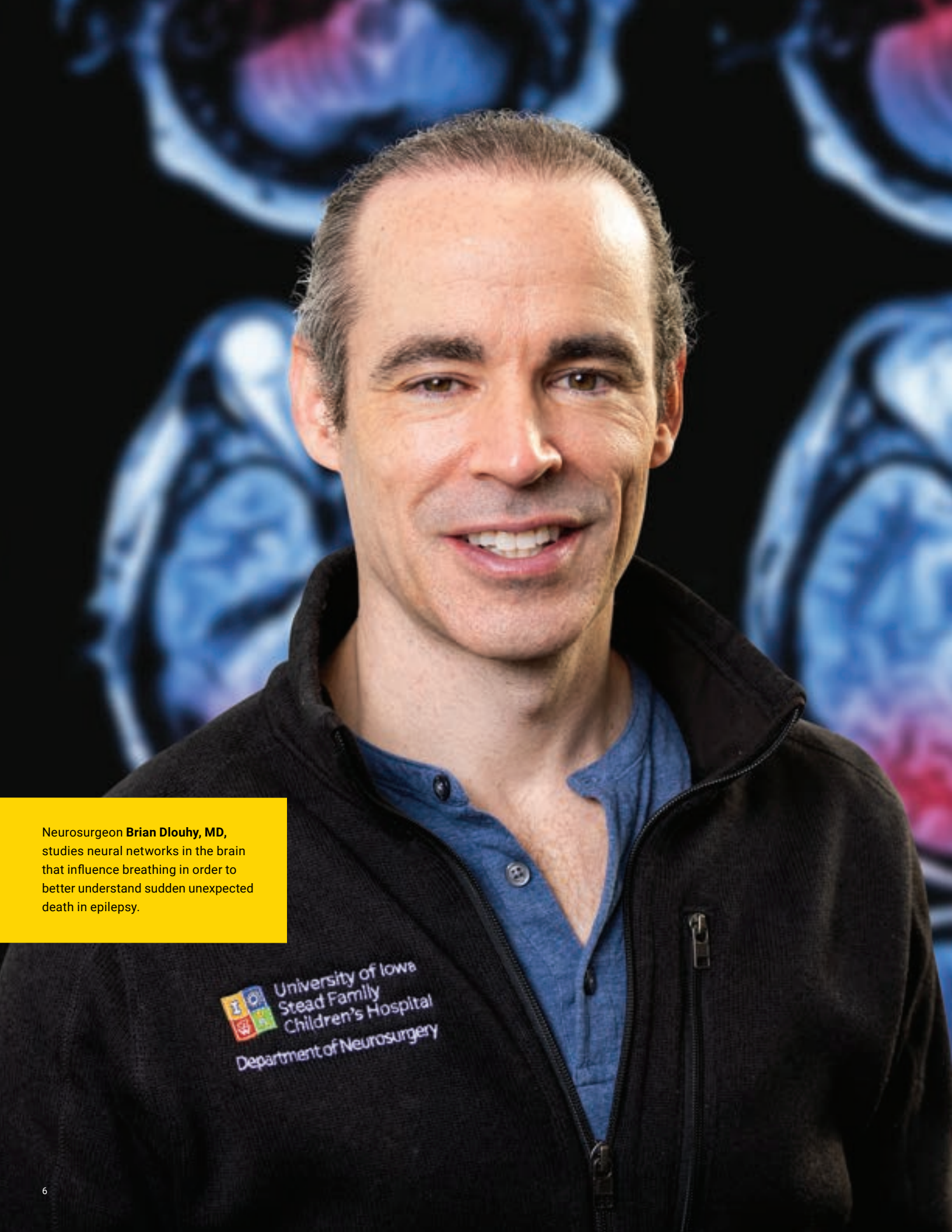
TOP-RANKED

No. 2 ranking in physician assistant
and No. 4 in physical therapy by
U.S. News & World Report






Manish Suneja, MD, emphasizes a point with **Taylor Cox, MD** (left), clinical assistant professor, and **Reed Johnson, MD**, chief resident physician.



Neurosurgeon **Brian Dlouhy, MD**, studies neural networks in the brain that influence breathing in order to better understand sudden unexpected death in epilepsy.

 University of Iowa
Stead Family
Children's Hospital
Department of Neurosurgery

RESEARCH AND DISCOVERY

Mission-driven to advance biomedical science

SPOTLIGHT

NEW EPILEPSY FINDING

Sudden unexplained death in epilepsy (SUDEP) is a rare but fatal complication of epilepsy, a brain disorder that causes seizures. The exact cause of SUDEP is not known, but increasing evidence suggests that loss of breathing, or apnea, that persists after a seizure is a major cause.

In a study published in October 2023 in the journal *JCI Insight*, UI Health Care neuroscientists, led by **Brian Dlouhy, MD**, associate professor in the Department of Neurosurgery, found that stimulating a specific area of the amygdala brain region provokes prolonged loss of breathing that continues even after a seizure has ended.

It's the first study to identify a site in the brain that can cause persistent apnea after a seizure ends—offering new insight into the mechanisms that underlie this probable cause of SUDEP.

Remarkably, a group of patients who were preparing for epilepsy surgery helped advance the research. The participating patients had intracranial electroencephalography (iEEG) electrodes implanted in their brains to help plan their surgeries. Combining the recordings from these electrodes with functional MRI brain imaging allowed researchers to map the effect of stimulation at several amygdala sites, leading to the identification of the focal site.

The research team also used a technique called electrical stimulation concurrent with functional MRI to trace the brain networks involved in the persistent post-seizure apnea. This allowed the team to look at the causal effects of stimulating one site in the brain to see what it does to other sites in the brain.

Dlouhy hopes the research findings will lead to increased understanding of SUDEP that may eventually allow physicians to identify patients at risk and even lead to clinical trials of treatments to prevent SUDEP from occurring.

"We're homing in on more of a focused target in the amygdala, which is key if we want to translate this to a therapeutic or preventative strategy," Dlouhy says.

#44 RANKING

in research by U.S. News & World Report



UNIVERSITY OF IOWA CARVER COLLEGE OF MEDICINE



\$295.1 MILLION

in external research funding in fiscal year 2023, which includes \$142.8 million in National Institutes of Health funding



280+

research labs



42

core research facilities and research service units



25

research centers and institutes

PATIENT CARE AND SERVICE

Mission-driven to provide high-quality, comprehensive care

SPOTLIGHT

COMPREHENSIVE CHILDREN'S CARE

Neonatology is one of six pediatric specialties at UI Stead Family Children's Hospital included in the 2023-24 rankings of "Best Children's Hospitals" by *U.S. News & World Report*.

Other pediatric specialties at Iowa included in the "Best Children's Hospitals" rankings are diabetes and endocrinology, nephrology, neurology and neurosurgery, orthopedics, and urology. UI Stead Family Children's Hospital has been ranked every year since *U.S. News* launched the children's hospital rankings in 2007.

One of the hallmarks of neonatology care at UI Stead Family Children's Hospital is the implementation of hemodynamics, which involves using ultrasound to obtain detailed images of a baby's heart valves, valves, and vessels. This allows the medical team to assess heart function and blood flow to all parts of the body.

When neonatologists **Patrick McNamara, MD**, and **Regan Giesinger, MD**, started the hemodynamic screening program at Iowa, they were confident it would increase survival rates and reduce complications for their tiny, fragile patients. Their research study, published in May 2023 in the *American Journal of Respiratory and Critical Care Medicine*, found that when hemodynamic screening was completed 24 hours after the birth of babies born at fewer than 27 weeks of gestation, the combined rate of death or severe brain bleeding fell by half. Hemodynamics was also linked to a lower incidence of other complications such as severe lung disease and necrotizing enterocolitis, a serious intestinal disease.

"This work is precedent-setting," says McNamara, who leads the neonatology division in the Stead Family Department of Pediatrics.

"We have demonstrated for the first time that this new field of neonatal hemodynamics can have a major impact not just on survival but also on long-term quality of life for extremely preterm babies."



889

Inpatient beds, including 205 pediatric beds at UI Stead Family Children's Hospital



33,189

Total patient admissions



1,278,688

Clinic visits



36,928

Major surgeries and 190,121 minor surgical procedures



3,072

Births



585

Organ and tissue transplants

IOWA'S #1 HOSPITAL

as ranked by *U.S. News & World Report*





Stephanie Lee, MD, a clinical assistant professor in the Stead Family Department of Pediatrics, specializes in neonatology, which is the care of newborn babies—especially infants who are seriously ill or born prematurely.

In February 2023, UI Health Care employees signed their names to structural beams to be placed at the North Liberty facility.



In September 2023, **Denise Jamieson, MD, MPH**, UI vice president for medical affairs and dean of the Carver College of Medicine—pictured here with Iowa Board of Regents member **David Barker** (right) and **Marty Scholtz**, UI vice president for research—joined university leaders and the Regents to tour the construction site of the UI Health Care’s North Liberty campus.



EXPANDING ACCESS

Mission-driven to care for Iowans

NORTH LIBERTY CAMPUS

The 60-acre campus, which is planned to open in summer 2025, will feature a three-story hospital and five-story medical office building with clinics as well as teaching and research facilities. In the opening phase of this campus, the Department of Orthopedics and Rehabilitation, which includes UI Sports Medicine, will relocate the majority of its patient care services to the North Liberty location, which will allow for the modification and expansion of other care services at UI Health Care's main hospital facilities.

The 470,000-square-foot facility in North Liberty also will include an emergency department, drive-thru pharmacy, lab and imaging capabilities, and a cafeteria and other amenities for patients, visitors, and staff.

UI Hospitals & Clinics has operated at high capacity for years, and the North Liberty campus is a major step in meeting Iowans' care needs. The project is one piece of a broader facilities master plan to renovate and add space that will increase access to high-quality care and provide opportunities for medical education, training, and research.

The master plan includes renovations to existing space on the university hospital campus—expansion of the Emergency Department, for example—and planning for a new adult inpatient tower, supported by a \$70 million gift from the Richard O. Jacobson Foundation.



36

Inpatient
beds



84

Exam rooms



18

Emergency
care rooms



12

Operating
rooms

Plus labs, pharmacy, diagnostic imaging,
outpatient clinics

UI HEALTH CARE AND MERCY IOWA CITY:

SERVING TOGETHER

In November 2023, the sale of Mercy Iowa City to the University of Iowa was approved in bankruptcy court—marking the beginning of an affiliation between two health care organizations that have served the community and region for the past 150 years.

Planning is underway for UI Health Care and Mercy Iowa City to become one in early 2024. The affiliation will preserve jobs, create new opportunities, and enhance access to high-quality care.



COMMUNITY SERVICE AND IMPACT

Mission-driven for a healthy Iowa

SERVING THE STATE

Connecting with young people is one example of UI Health Care investing in Iowa's future. UI Health Care STEM (science, technology, engineering, and math) Education partners with school districts, community groups, and educators across Iowa to provide learning experiences for K-12 students. Through simulations and hands-on activities, the STEM programs help nurture students' interests and offer insights into how they can learn to become tomorrow's care providers, researchers, and educators in the health sciences.

UI HEALTH CARE COMMUNITY BENEFITS

UI Health Care provides programs and services that improve access to health care services; enhance the health of the community; advance medical or health knowledge; and relieve or reduce the burden of government or other community efforts. These include health education and injury prevention efforts; health professions training, job-shadowing, and STEM education; subsidized health services; health screenings; first-aid stations at community events; support groups; continuing medical education for community providers; and transportation and lodging support for patients and families.



\$355,157,188

in value of program
and services

522,175

people served through
community benefit
programs and services

UI HEALTH CARE SERVING IOWA



43

walk-in, primary care, and
specialty/outreach locations
in 26 communities across
17 Iowa counties



15

Child Health Specialty Clinic
locations in Iowa communities
(12 regional centers and
3 satellite clinics)



47%

of Iowa's 5,805 physicians
received medical education
or training at Iowa



1,496

Iowa medicine alumni practice
in 81 of Iowa's 99 counties



7,034

providers from all 99 counties
in Iowa participated in
University of Iowa continuing
education programs in FY23



UI HEALTH CARE STEM EDUCATION IN FY23:

15,714

K-12 students from 60
Iowa counties participated
in 145 programs

267

UI faculty, staff,
and students devoted
1,651 hours to
STEM education

Students from the Carver College of Medicine's Department of Physician Assistant Studies and Services visited Coralville Central Elementary School in fall 2023 to spark interest and excitement in the health sciences—showing the grade-schoolers how to find their pulse, read an X-ray, and more.

Quick thinking and decisive action by UI Health Care nurses (from left) **Julie Liebe**, **Courtney Heid**, and **Kelsey DeWeese** saved the life of a man who experienced cardiac arrest as he was leaving the hospital.



OUR PEOPLE

Mission-driven for Iowans—and each other

Health care requires collaboration. Whether it is providing patients care, educating students and trainees, or leading advances in research, it takes teams of individuals with a shared commitment to excellence and service—24 hours a day, seven days a week.

Just ask nurses **Julie Liebe, BSN, RN; Courtney Heid, ADN, RN; and Kelsey DeWeese, BA, RN.**

In June 2023, their quick decision-making helped resuscitate 84-year-old Ervin Imm, who experienced sudden cardiac arrest as he and his wife were leaving UI Hospitals & Clinics. Liebe and DeWeese, operating room nurses who had finished their shifts, rushed to Imm and administered chest compressions.

Heid, an off-duty transplant nurse who had encountered the situation moments earlier, alerted Safety and Security and ran to the hospital's main entrance to retrieve an automated external defibrillator. The trio worked in tandem to save Imm's life. He was taken to the Emergency Department, admitted to the hospital, and ultimately received an implantable cardioverter defibrillator to detect arrhythmias and deliver a shock when necessary.

"We were at the right place at the right time, doing our jobs even though we were off the clock," DeWeese says. "It's good to know that outside of the rooms we work in every day, we can do it."

Liebe, Heid, and DeWeese's actions exemplified an extraordinary level of teamwork, coordination, and trust. UI Health Care employees and volunteers are proof that an organization's greatest asset is its people—serving as a reminder of the partnerships and productivity that distinguish our academic health system.

MAGNET® DISTINCTION

UI Hospitals & Clinics earned its fifth consecutive Magnet® designation in 2023 from the American Nurses Credentialing Center. It's the highest honor given for excellence in nursing practice and awarded only after a rigorous review and on-site evaluation of all aspects of the Department of Nursing Services and Patient Care.

With its fifth designation, UI Hospitals & Clinics joins an elite group of the nation's hospitals. Fewer than 8% of Magnet® hospitals have achieved five or more designations. Only 47 other organizations have received this designation at least five times.



1,195

UI Hospitals & Clinics staff physicians and dentists



5

consecutive Magnet® designations for nursing excellence



5,333

Department of Nursing Services and Patient Care team members

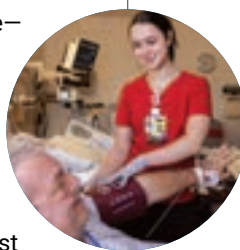


893

UI Health Care volunteers contributing 62,712 hours of service

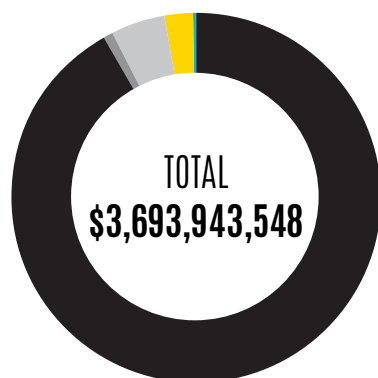
18,440

UI Health Care employees



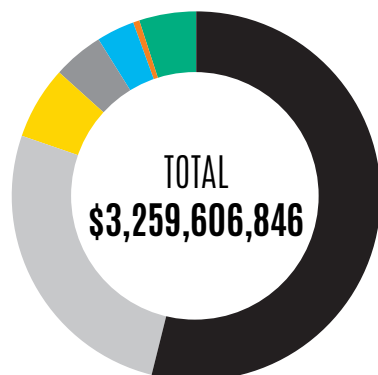
CONSOLIDATED FINANCIAL INFORMATION

Fiscal year 2023 (July 1, 2022 through June 30, 2023)
enterprise revenue and expenses



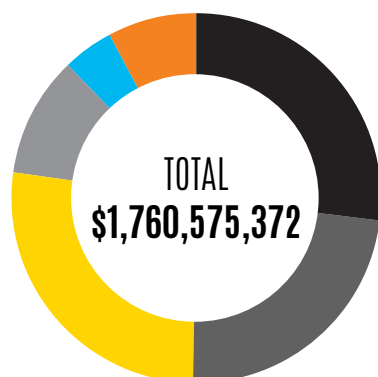
FY23 Revenue

● Patient Care.....	\$3,169,445,651
● Extramural Funding.....	\$271,111,463
● Other Operating Revenue.....	\$166,378,192
● General Education Funds.....	\$84,787,644
● Special State Appropriations.....	\$2,220,598
TOTAL	\$3,693,943,548



FY23 Expenses

● Personnel.....	\$1,760,575,372
● Supplies	\$864,072,340
● Licenses, Fees, and Other Operating Expenses.....	\$203,285,630
● Depreciation and Amortization.....	\$144,680,161
● Repairs and Maintenance	\$111,455,140
● Services (Insurance).....	\$20,736,759
● Occupancy, Billing, and Overhead	\$154,801,444
TOTAL	\$3,259,606,846



FY23 Personnel Expenses

● Faculty	\$478,261,475
● SEIU.....	\$409,749,362
● Professional and Scientific.....	\$475,777,519
● Merit.....	\$181,969,643
● Residents, Fellows, and Postdoctoral Fellows.....	\$78,430,897
● Other Total.....	\$136,386,476
TOTAL	\$1,760,575,372

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