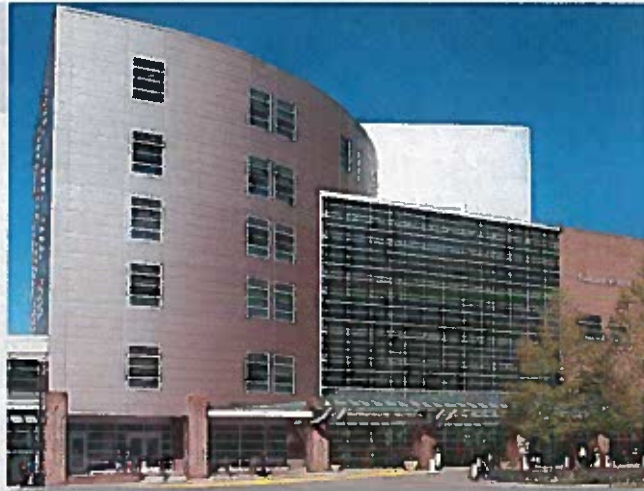


Ross Heart Hospital Past, Present & Future



Improving People's Lives
Through Innovations in
Personalized Health Care



Ernest L. Mazzaferri Jr, MD, FACC
Medical Director, Ross Heart Hospital
Charles A. Bush Professorship in
Cardiovascular Medicine



THE OHIO STATE UNIVERSITY
WEXNER MEDICAL CENTER

Ohio State University Medical Center ...Early Origins of WMC



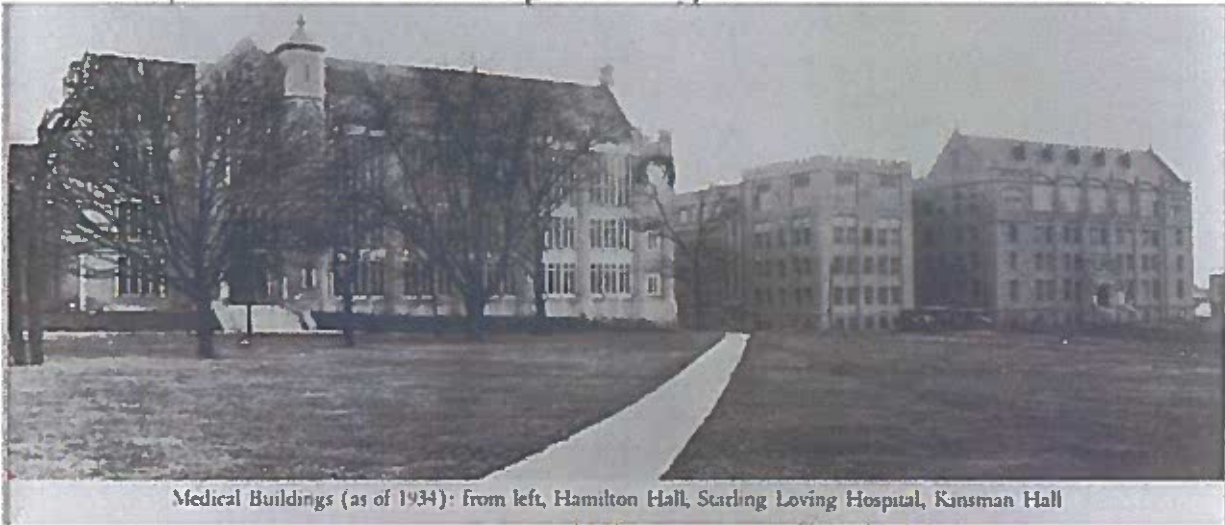
Starling Loving Hall, circa 2019

circa 1906 (Starling Hall)



First Major Expansion of Medical Center

- **1925:** a larger, state-of-the-art hospital opened at Ohio State, but quickly expanded again....
- **1928: Starling-Loving University Hospital** had three wings that housed 296 beds and a maternity unit, a modern concept during a time when most



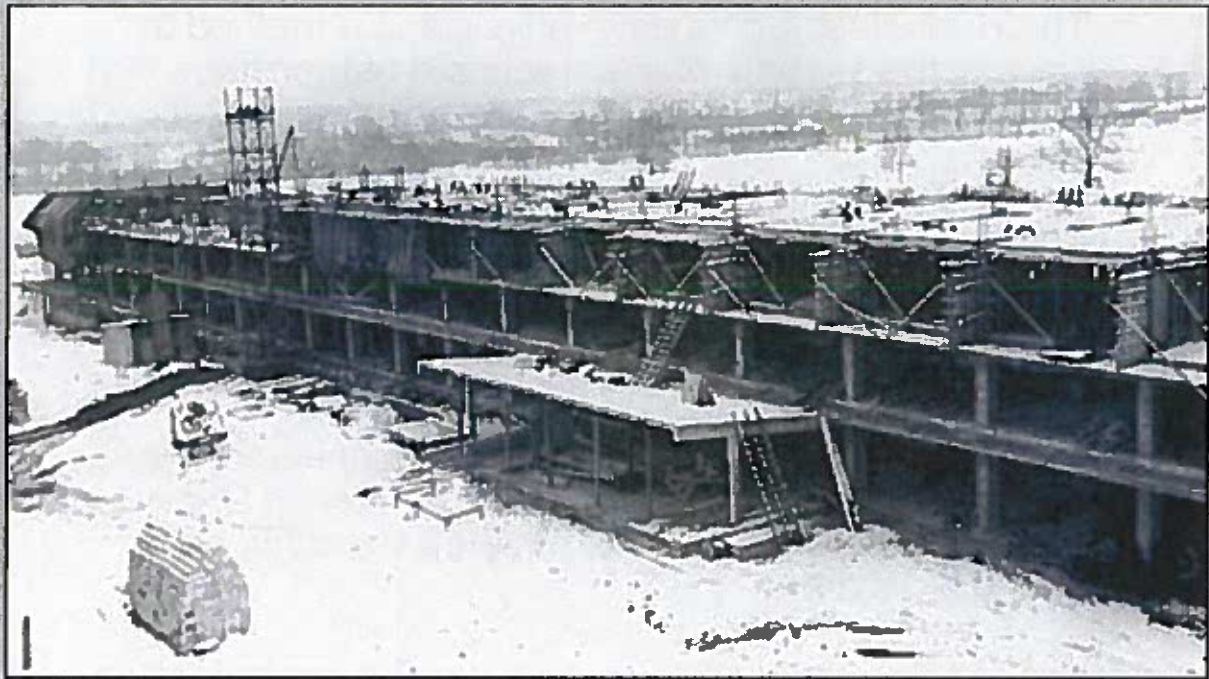
Surviving the 1930's-40's Research & Innovation takes flight

- Medical research began to flourish, as Ohio State:
- Advanced the use of radiation as a cancer treatment
- Was the first central Ohio hospital to use penicillin to fight infections
- Established departments of Psychiatry, Neurology and Pediatrics
- Created a two-year medical degree program in response to World War II's demand for doctors



University Hospital ("Doan Hall") 1948

Expansion of University Hospital



 THE OHIO STATE UNIVERSITY
WEXNER MEDICAL CENTER

5

1950's-1960's: the expansion outpatient facilities & some familiar names

- Following World War II, Ohio State's hospital and outpatient facilities grew to support growing patient care needs
- Physician scientists published many important studies, including these breakthrough discoveries:
 - Drs. Robert Zollinger and Edwin Ellison identified *Zollinger-Ellison Syndrome*, which traced some peptic ulcers to tumors in the pancreas or small intestine
 - In 1957, Dr. Howard Sirak led a team that **developed a "heart pump"** for use
 - In 1958, Dr. Bertha Bouroncle led a team that identified hairy cell leukemia
 - 27 years later, Ohio State scientists created the lifesaving drug to treat it.

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6



Innovation in the 1960's



- The Hunt-Hess Scale gave physicians a method to classify the severity of subarachnoid hemorrhage that is still used today
- Ohio State surgeons performed **central Ohio's first organ transplant**
 - a kidney and advanced the field of organ and tissue transplantation through surgical techniques, organ preservation and anti-rejection medications.
- Ohio State physicians and dietitians pioneered sports nutrition, including the importance of vitamin D for calcium absorption and the athlete's need for water during exercise.

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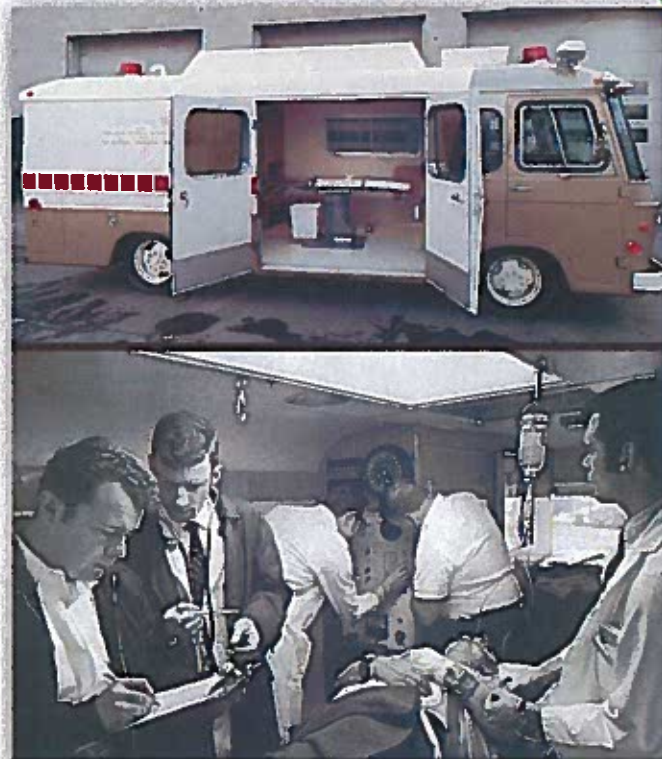


Innovation in the 1960's



- 1966: James Warren begins discussion about pre-hospital care
- Ohio State Cardiologists and Columbus Fire Department created **the nation's first EMS system and ambulance:**

"The Heartmobile"



Source: Derek R. Cooney: Cooney's EMS Medicine: www.accessemergencymedicine.com
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IVERSITY



Innovation in the 1960's

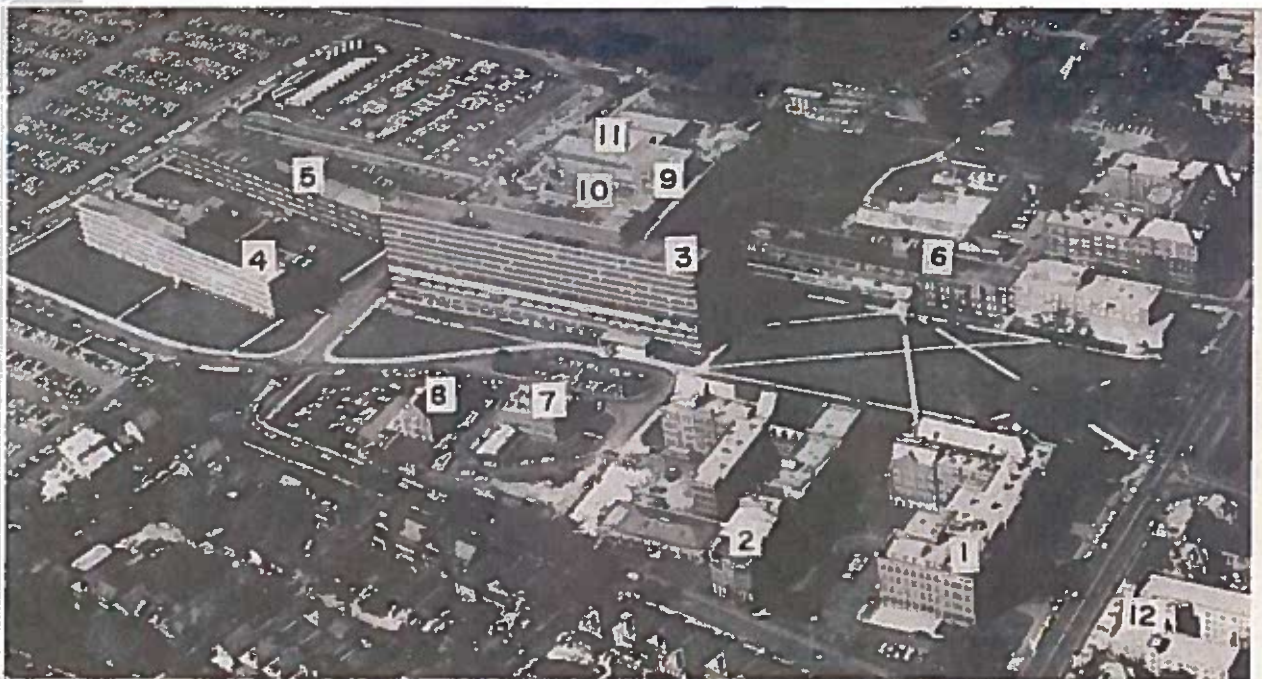


Dr. James Warren, Chief of Cardiology



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1970's ...A Growing Medical Campus



Buildings in The Ohio State University Health Center are: (1) Hamilton Hall, headquarters of the College of Medicine; (2) Starling Loving Hospital; (3) University Hospital; (4) Ohio Tuberculosis Hospital; (5) Columbus Psychiatric Institute and Hospital; (6) College of Dentistry; (7) Kinsman Hall; (8) Ohio State Department of Health Laboratories; (9) North Wing; (10) Radiation Therapy Unit; (11) Research Laboratories; (12) Nursing School Dormitory.

WEXNER MEDICAL CENTER

1970's



1970's

- Dr. Ernest Johnson wrote the first book on electrodiagnostic procedures to assess the health of muscles and the nerve cells that control them
 - Now in its fourth edition, the text has been renamed Johnson's Practical Electromyography
- Ohio State physicians pioneered **helicopter transport of trauma patients**
 - After returning from the Vietnam War, Dr. Stuart Roberts helped create the National Guard Helicopter Evacuation Program, a forerunner of today's medical helicopter transport programs
- **1976:** the National Cancer Institute (NCI) designated The Ohio State University as a Comprehensive Cancer Center (CCC) - a leader in cancer research clinically applied to patient care

1980's

- Ohio State was the first hospital in the Midwest to deliver a baby conceived through in vitro fertilization
- Ohio State obstetrics research improved treatments for women with high-risk pregnancies by identifying predictors for preterm birth and optimal care for women with gestational diabetes
- Ohio State performed its *first bone marrow transplant* to treat patients with leukemia.
 - Today, Ohio State is internationally renowned for leukemia treatment and research
- Ohio State became a leading national center in the research and treatment of HIV and AIDS, a distinction that continues today

July 26, 1986: First Heart Transplant at Ohio State Medical Center



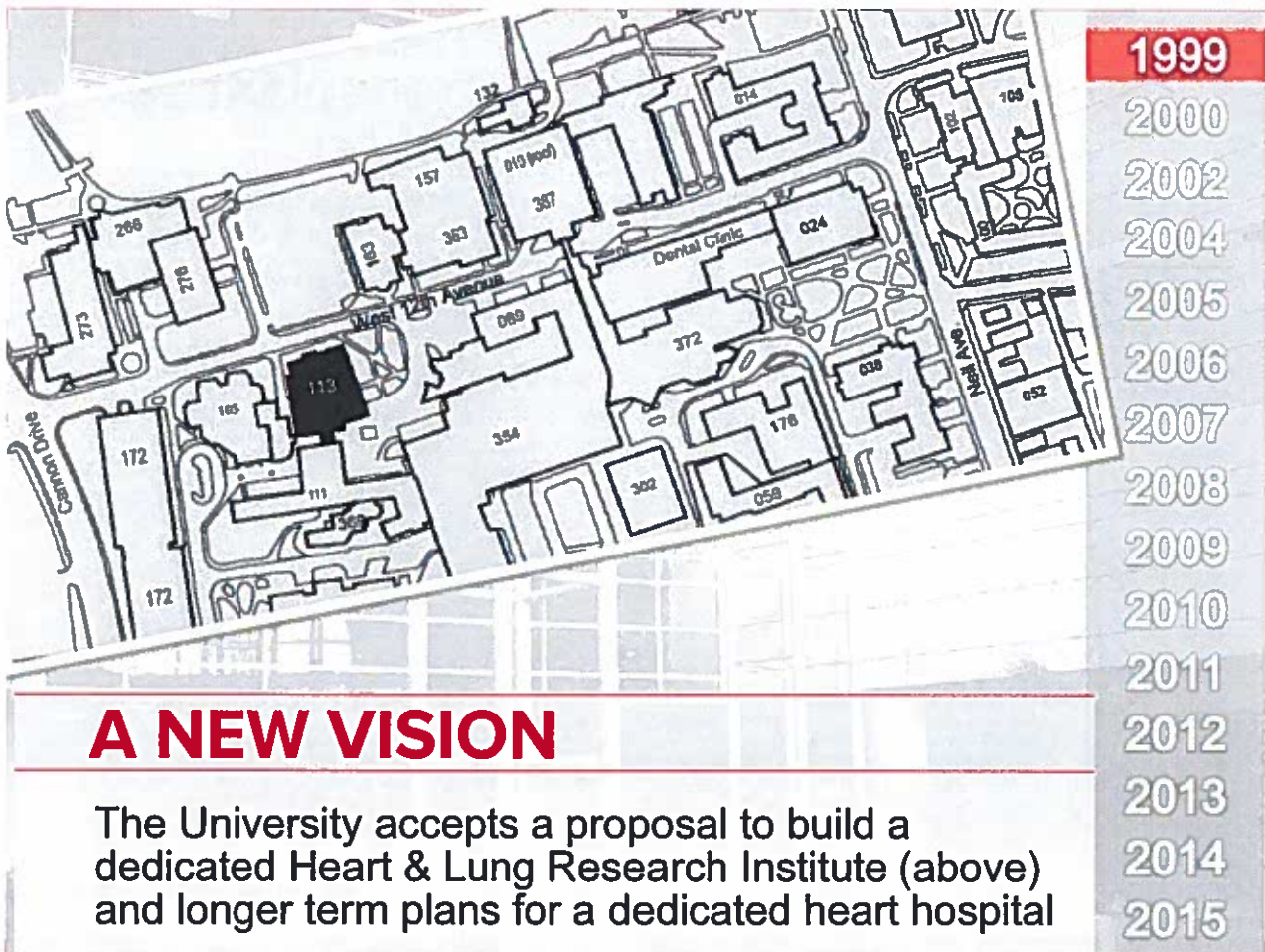
Expansion off campus in the 90's

- Ohio State expanded beyond its campus borders, acquiring what is now University Hospital East, and merging its mental health services with those of Harding Psychiatric Hospital



- In 1999, **Ohio State surgeons were the first in North America to perform a robotic-assisted heart procedure with the Da Vinci Surgical System.** Ohio State continues to be a leader in minimally invasive surgical techniques here.

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A NEW VISION

Davis Heart and Lung Research Institute Opens (DHLRI)

A vision to integrate scientists with clinicians to create interdisciplinary teams, and push translational discovery in human heart and lung disease

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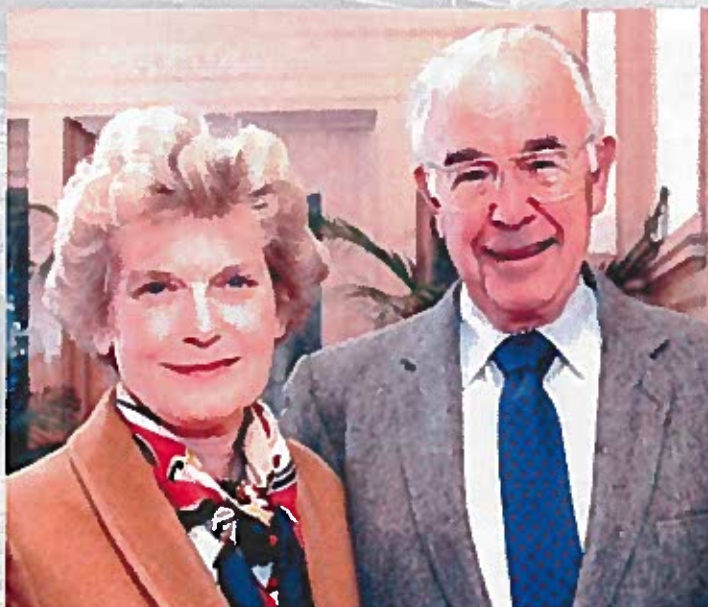
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A NEW VISION

Richard "Dick" and Elizabeth "Libby" Ross

Philanthropic gift accelerates plans for dedicated Heart Hospital

Libby Ross made the donation in honor of her late husband, Dick Ross (1916-1993). He was president of Ross Labs, the nation's leading manufacturer of infant formula, which began as a family business, M & R Dietetic, founded by his father Stanley along with Harry Moore in 1903

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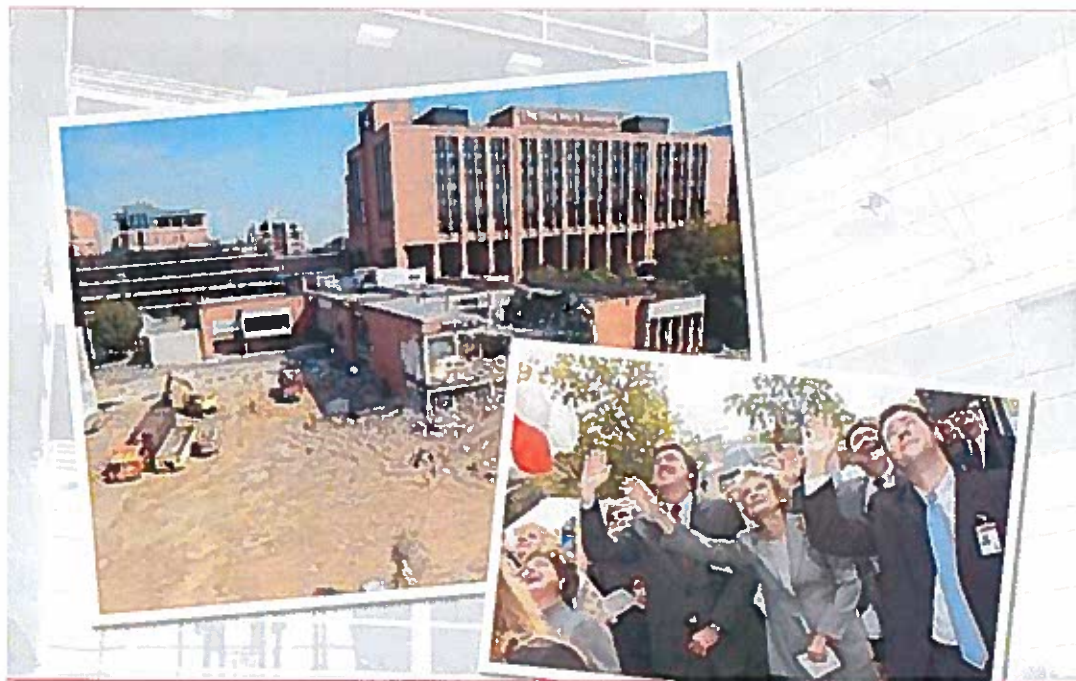
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A NEW VISION

Richard M. Ross Heart Hospital construction commences

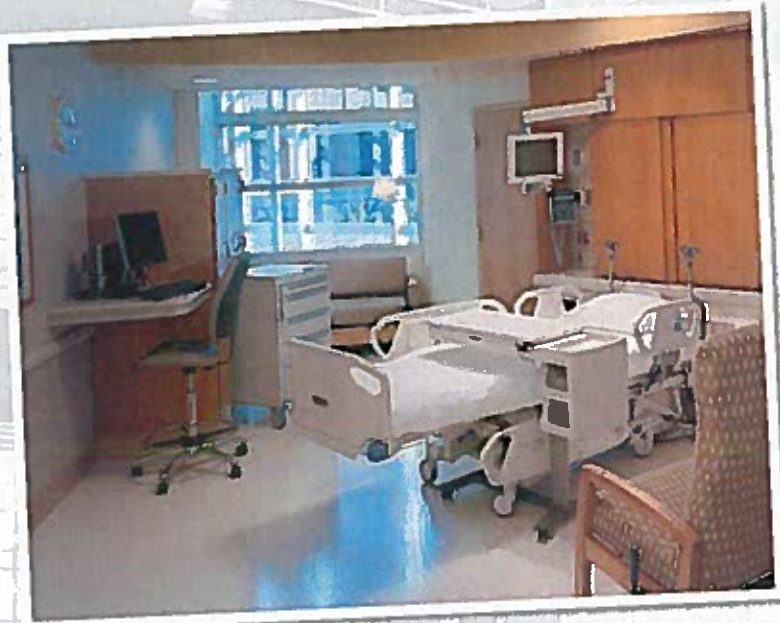
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A NEW VISION

Richard M. Ross Heart Hospital Opens
1st academic medical center in the United States to build a comprehensive cardiovascular hospital on its campus

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A NEW VISION

Richard M. Ross Heart Hospital

Universal bed care delivery model:
care across the continuum

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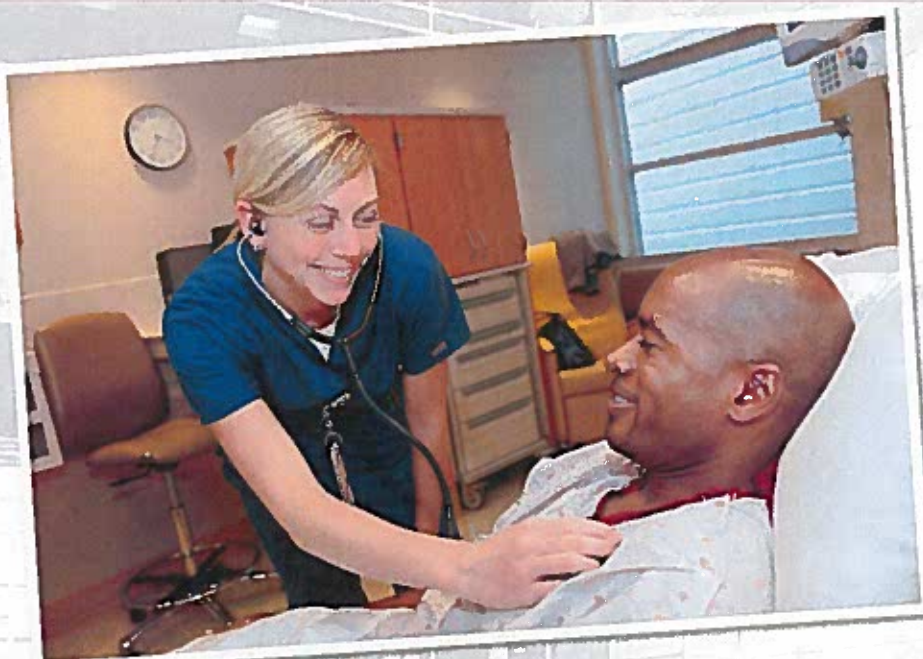
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A DECADE OF EXCELLENCE

Richard M. Ross Heart Hospital: January

First patients cared for in new hospital

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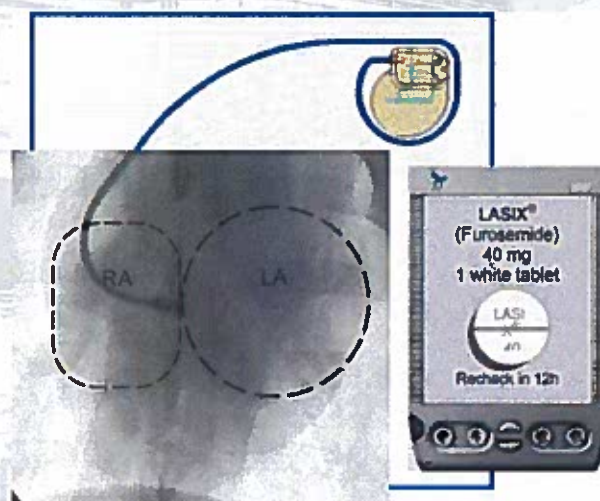
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Implanted LA-pressure sensor guides Heart Failure medication adjustments, prevents decompensations



A DECADE OF EXCELLENCE

Richard M. Ross Heart Hospital:
First in United States to Implant *HeartPOD*

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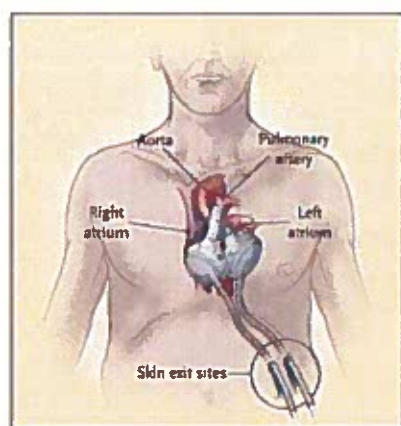
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2006: Central Ohio's first implantation of CardioWest artificial heart; an inpatient bridge to heart transplant



A DECADE OF EXCELLENCE

Richard M. Ross Heart Hospital:
First in Central Ohio to Implant Artificial Heart

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A DECADE OF EXCELLENCE

Richard M. Ross Heart Hospital

120 beds to 150 beds: Completes 2 floor expansion:
60,000 sq. ft. vertical addition

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A DECADE OF EXCELLENCE

STEMI – ST-Elevation Myocardial Infarction
Launch 1st Regional STEMI program in Ohio

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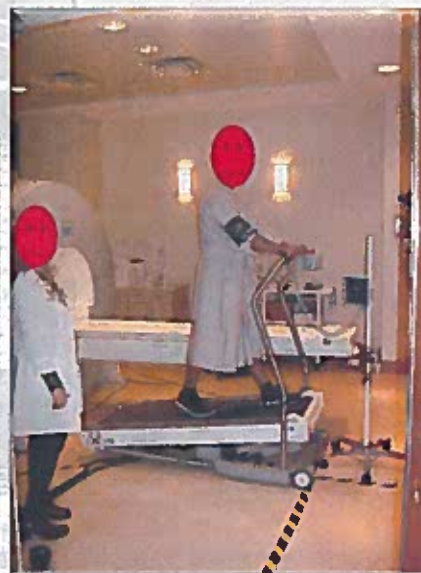
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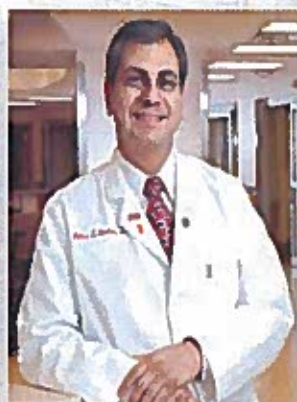
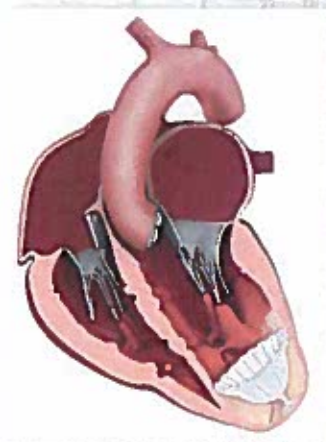
2015

A DECADE OF EXCELLENCE

Richard M. Ross Heart Hospital

One of the few centers in the world performing MRI safe treadmill stress testing in research protocol

March 21, 2008 – A central Ohio man has become the first person in the U.S., and only the 16th worldwide, to receive a heart implant called the CardioKinetix VPD Implant System designed to improve the heart's pumping action and help manage congestive heart failure symptoms.



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A DECADE OF EXCELLENCE

Richard M. Ross Heart Hospital

First in United States to implant LV partitioning device



A DECADE OF EXCELLENCE

Heart Partnership with Memorial Hospital of Union County

Expanded cardiac care to the Marysville community

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A DECADE OF EXCELLENCE

Received Beacon Award of Excellence

4 Ross Cardiac Surgery

Nursing Excellence in the intensive care environment

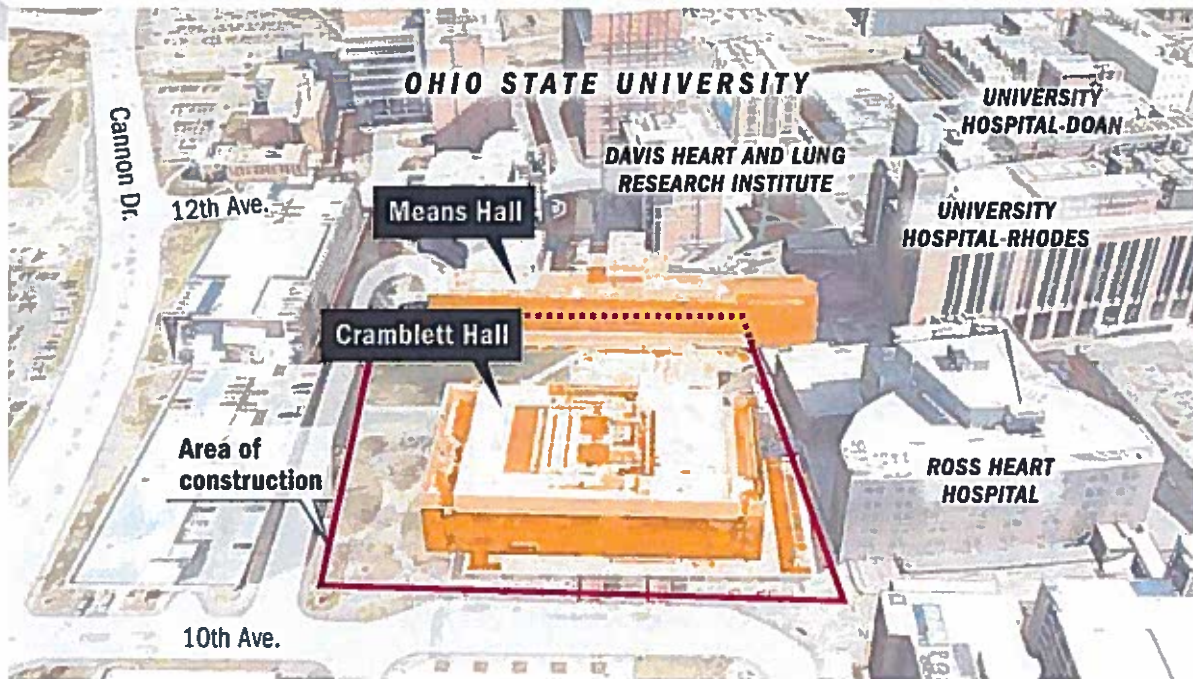
Excellence of the highest quality measures, processes, structures and outcomes based upon evidence

Excellence in collaboration, communication and partnerships that support the value of healing and humane environments

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2010- Medical Campus

Discussions for new James Cancer Hospital Begin



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WEXNER MEDICAL CENTER



A DECADE OF EXCELLENCE

Largest Electrophysiology Services (EP) Team in Ohio

Addition of 3 labs, 1 cath lab, recovery area
Top 5 for volumes in the nation

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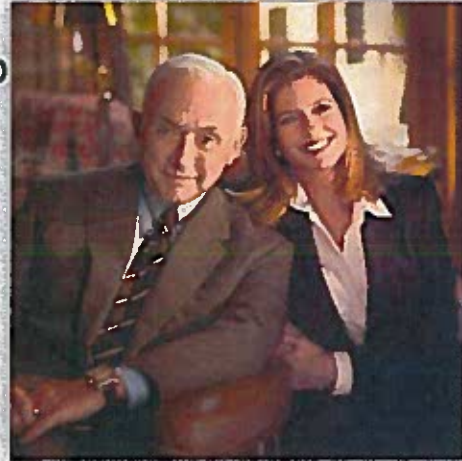
2015



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- **2012:** recognizing the leadership and benevolence of philanthropist Leslie H. Wexner, we become **The Ohio State University Wexner Medical Center**
- Ohio State introduces electronic medical records and OSUMyChart, where patients can request appointments, renew prescriptions and review their health history online



THE OHIO STATE UNIVERSITY
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33



A DECADE OF EXCELLENCE

Radial Lounge opens

easing recovery for our heart catheterization patients

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Gives patients immediate access to the highest levels of care for a variety of cardiovascular emergencies

STEMI
Cardiogenic Shock
Aortic Dissection
Critical Limb Ischemia
Acute Pulmonary Embolism



A DECADE OF EXCELLENCE

**LEVEL 1 Emergency program launches:
First in Ohio**

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A DECADE OF EXCELLENCE

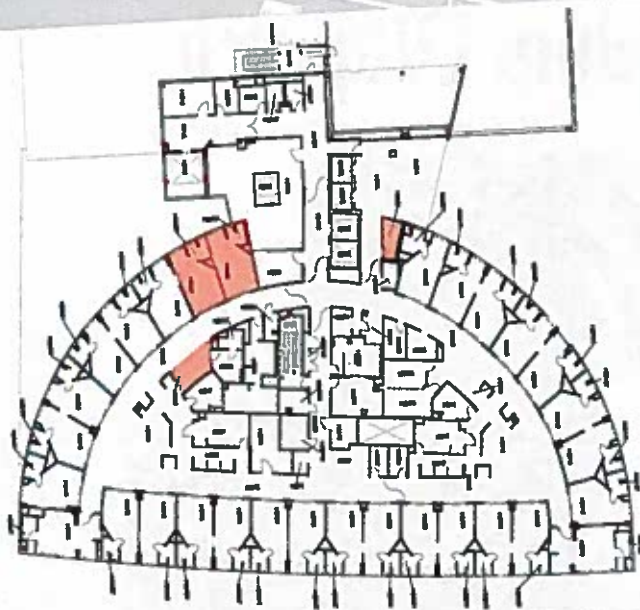
Received Beacon Award of Excellence
2 Ross Critical Care

Nursing Excellence in the intensive care environment

Excellence of the highest quality measures, processes, structures and outcomes based upon evidence

Excellence in collaboration, communication and partnerships that support the value of healing and humane environments

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**Wexner
Heritage
Village**

A DECADE OF EXCELLENCE

**A partnership with Zusman Hospice of Wexner
Heritage Village on 6 Ross**

Furthering the continuum of care...

"where the heart and soul are as important as the meds and the monitors"

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POUR your
HEART out 

**ROSS
FIT** 



A DECADE OF EXCELLENCE

**Launch of the Ross Heart Hospital Wellness
Series**

Fitness, nutrition and education events offered year-
round to improve heart health

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The Columbus Dispatch

By Mistl Crane, The Columbus Dispatch

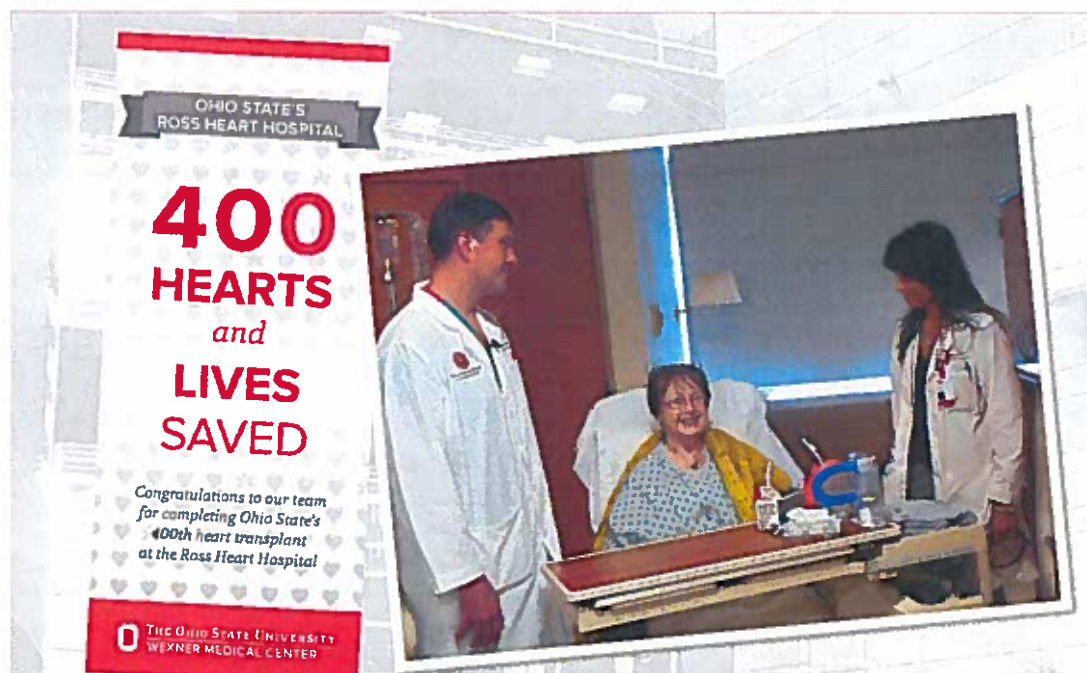


A DECADE OF EXCELLENCE

Lung Transplant Program Relaunch

After a 4 year hiatus, Bryan Whitson MD, PhD leads Ross Heart Hospital Lung Transplant program

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A DECADE OF EXCELLENCE

Completes 400th Heart Transplant

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A DECADE OF EXCELLENCE

CardioMems Wireless Monitoring Device

1st implant in the United States by Dr. Ayesha Hasan:
CardioMems wireless heart failure monitoring device

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A DECADE OF EXCELLENCE

Elizabeth M. Ross Nursing Fellowship

one-year fellowship providing a full-time nurse in the Ross Heart Hospital with the opportunity to explore career enhancement through classes, educational opportunities and project-based work within the Wexner Medical Center and the College of Nursing

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Ross Garden 2019 Monthly Classes

Wednesdays from 6 to 7 p.m. at the Ross Garden (680 Vernon Tharp St.)

Hosted by: Elaine Grassbaugh
Jim Warner
Kelly Scheiderer

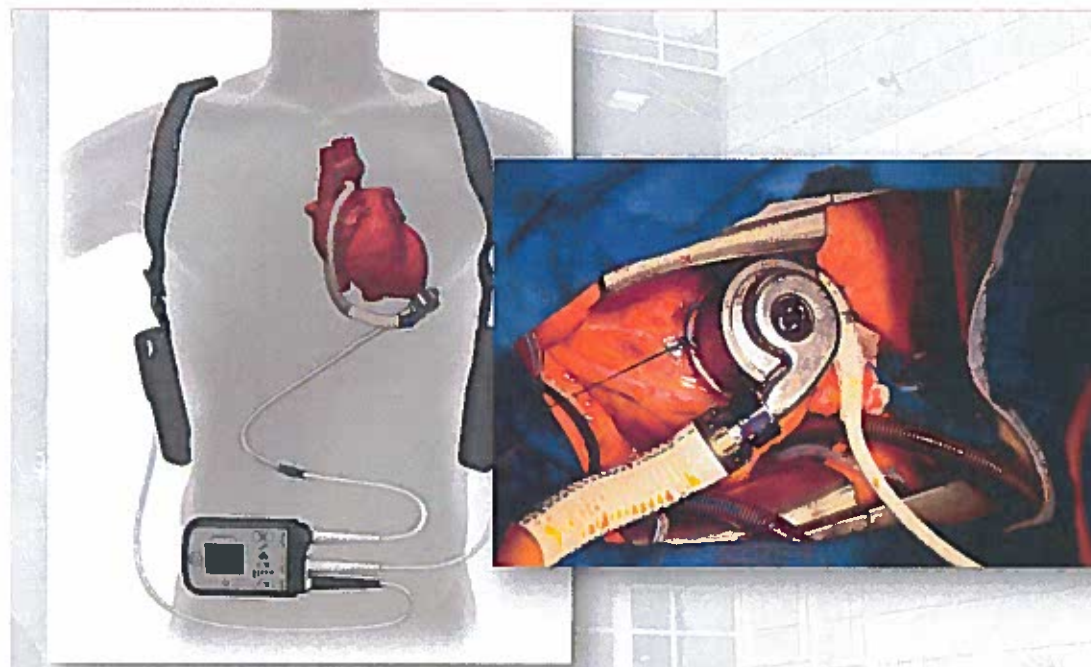


A DECADE OF EXCELLENCE

Ross Community Garden Established

The purpose of the garden is to improve the health and wellness of its visitors by educating them on the importance of healthy eating, cooking and nutrition. The garden is open to Ross Heart Hospital patients, caregivers and community members. Weekly classes will begin in May and run until September. Harvesting sessions will follow each class beginning in June.

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A DECADE OF EXCELLENCE

Heart Mate 3 LVAD implanted

Ohio State was first in Ohio and one of the first 10 medical centers in the US to test the HeartMate III left ventricular assist device (LVAD), which is smaller and entirely magnetically levitated—designed to produce fewer complications than its predecessor, HeartMate II.

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2016: Wexner Medical Center USNWR Rankings



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WEXNER MEDICAL CENTER

2016: Wexner Medical Center USNWR Rankings

Specialty	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Cancer	21	15	19	18	28	20	25	20	30	24	37
Cardiology & Heart Surgery				37	20	24	29	36	34	31	26
Diabetes & Endocrine	33		42	27	17	20	27	37		24	36
ENT	20	19	30	18	18	17	14	15	15	14	7
Geriatrics							46	49			44
Nephrology	23	24	24	33	31	39	29	28	35	31	25
Neurology/Neurosurgery	44				46	45		49		36	30
Pulmonology	24	41	27	23	34	25	30	33			33

* Reputation-Only Rankings

■ = Increase in ranking or reputation score from previous year
■ = Decrease in ranking or reputation score from previous year
■ = No change in ranking or reputation score from previous year

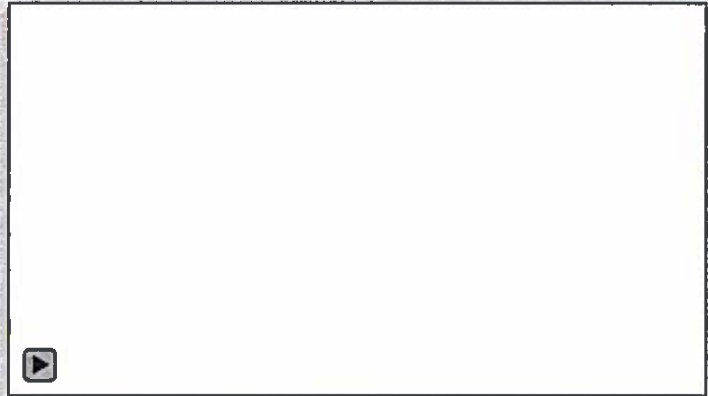
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WEXNER MEDICAL CENTER

2016: A Journey to A Unique Clinical and Translational Research Platform



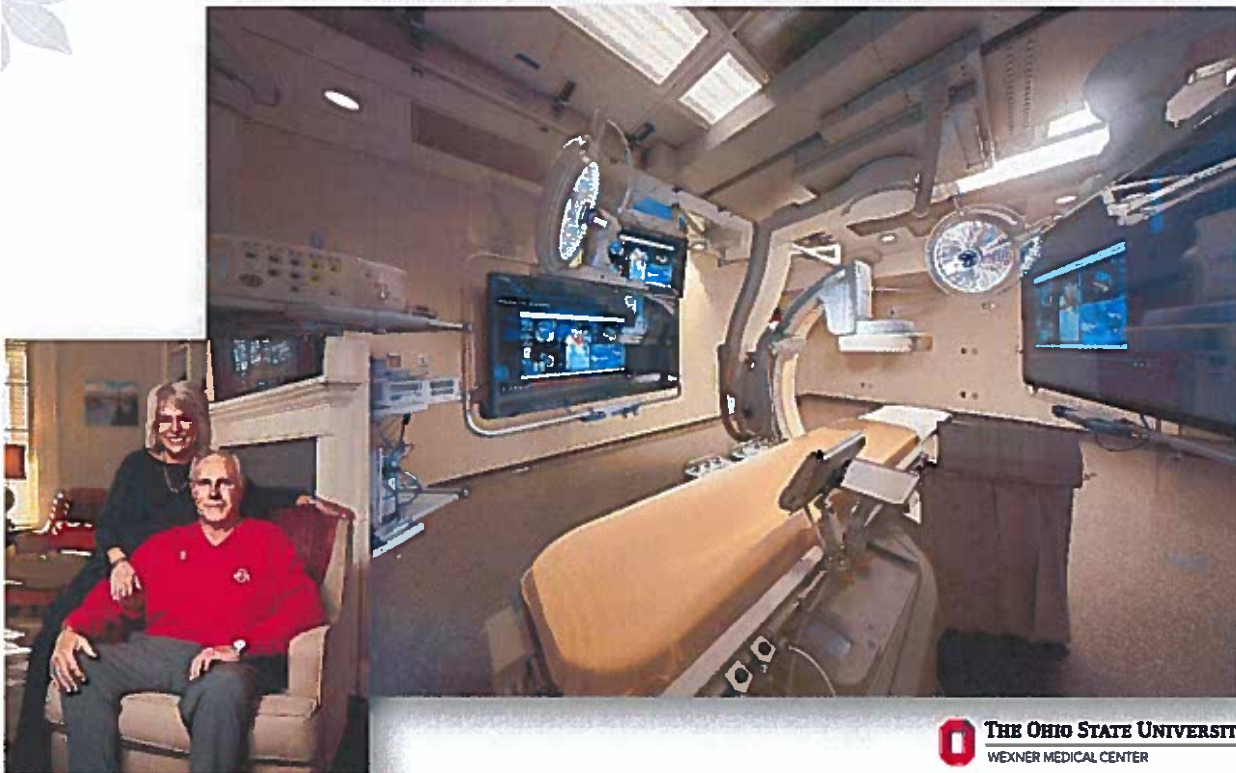
OSUWMC Ex Vivo Lung Perfusion Program

August 2016 to June 2017
9 of 38 transplants performed
23.7% of cases
31% Increase in lung transplants performed



 THE OHIO STATE UNIVERSITY
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2017: The Bob and Corrine Frick Electrophysiology Hybrid Suite opens



 THE OHIO STATE UNIVERSITY
WEXNER MEDICAL CENTER

2017: Launch 1st ECPR for out-of-hospital arrest program in Ohio



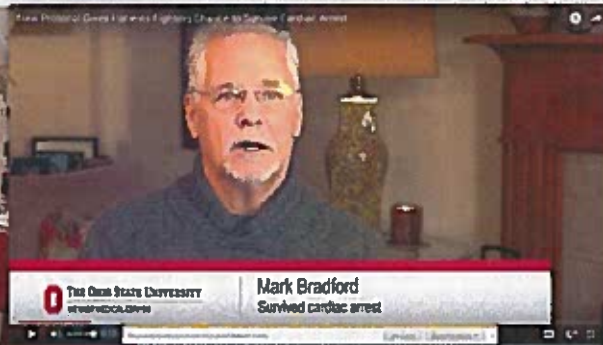
Columbus Fire Department
3639 Parsons Ave Columbus OH 43207 (614)645-7384

Incident Number **17141350**
Patient ***** ****
Complaint **CARDIAC ARREST**
Case Status **CLOSED**

**68yo in FULL ARREST w/ CPR....VFIB....DUAL
SEQUENTIAL DEFIB....ECPR ALERT CALLED to
OSU...ACLS protocol continues....Pt TAKEN DIRECTLY
TO CATH LAB**

SHOCKS
L SEQUENTIAL
D. INTUBATION
MULTIPLE RHYTHM
W/ PULSE. PT
O INCIDENT. ET
IATED AS

U/A 68 Y/O M L
DELIVERED, AND
MANUAL DEFIB AS
AS NOTED. AHA
CHANGES THROUGH
CONTINUED TO PER
TUBE RECONFIRMED
NOTED. PT WAS MONITORED DURING TRANSPORT W/ CONTINUED CPR W/O CHANGE. U/A TO OSU WE WERE DIRECTED TO CATH LAB. PT CARE
AND REPORT WERE TRANSFERRED TO CATH LAB STAFF. M12 BIS, ALL TIMES ARE APPROXIMATE. NO PT HX OR INFORMATION WAS AVAILABLE
OTHER THAN INFO FOUND ON PT ID.



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Dr. Timur Sarac, Chief Vascular Surgery April 2018

- Founding director of Aortic Center at Ohio State, via Yale University and the Cleveland Clinic
- Nationally recognized vascular surgeon specializing in innovative technologies (hold 25 patents)
- 16 years in the Army Reserves awarded a U.S. Army commendation medal during the Iraqi/Afghanistan wars



THE OHIO STATE UNIVERSITY
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Dr. Nahush Mokadam August 2018

- Dr. Mokadam is an international leader in heart failure who specializes in heart transplants and ventricular assist devices. He comes to Ohio State from the University of Washington Medical Center



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WEXNER MEDICAL CENTER

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August 31, 2018: 500th Heart Transplant



Peter Lee, MD led the surgery, assisted by Nahush Mokadam, MD, and many others from nursing, perfusion, anesthesiology, critical care and support staff teams. The patient's cardiologist is Sakima Smith, MD.


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WEXNER MEDICAL CENTER

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Heart Failure First-in-US continues: Sept 2018

- Ohio State First in U.S. to Test New Device to Improve Heart Failure Symptoms

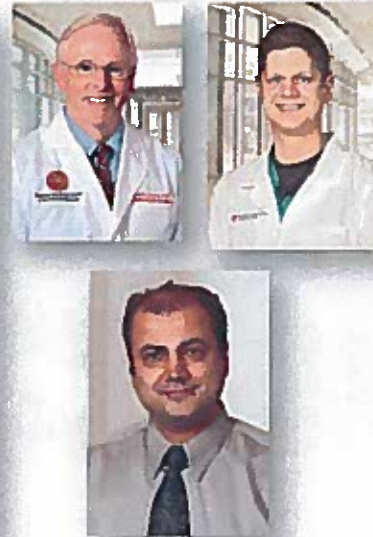
Inter-Atrial Shunt Devices (IASD)
(Corvia and V-wave)



- High LA pressures (LAp) and pulmonary congestion are the common link in both HFrEF and HFpEF
- Transcatheter implant to create permanent interatrial shunt to decompress the elevated LAp without reducing CO



V-wave

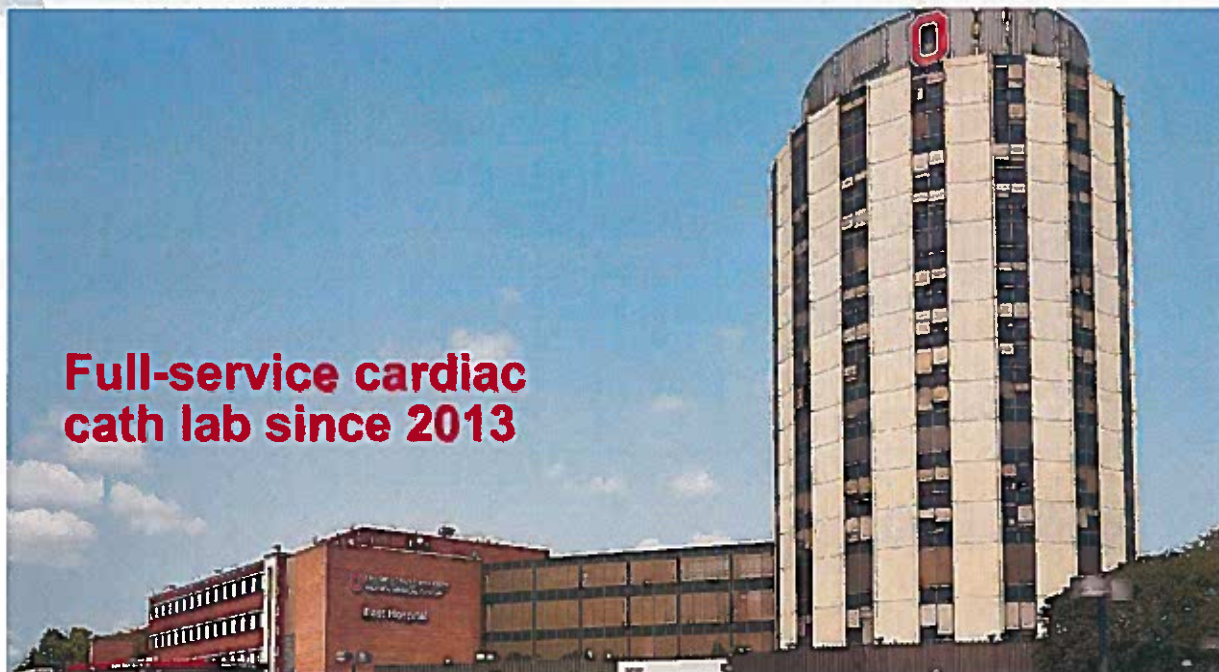


THE OHIO STATE UNIVERSITY
WEXNER MEDICAL CENTER

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Sept 2018: OSU East becomes Level 3 Trauma Center

**Full-service cardiac
cath lab since 2013**



THE OHIO STATE UNIVERSITY
WEXNER MEDICAL CENTER

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October 2018: Reinvigorating the Total Artificial Heart Program

The Columbus Dispatch: Ohio State University's Wexner Medical Center has implanted its first total artificial heart since January 2015, with plans to make it more accessible. The device is reserved for the sickest of the sick, with the hope of getting them to transplant.



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WEXNER MEDICAL CENTER



BEST HOSPITALS
A WORLD REPORT
U.S. News
NATIONAL
CARDIOLOGY &
HEART SURGERY
2018-19

Nationally Ranked in
Cardiology and Heart Surgery

**Ross Heart Hospital:
#22 in 2017, #24 in 2018**

Recognized For Excellence in 2018



U.S. News & World Report

The Richard M. Ross Heart Hospital is ranked among the top 24 programs in the nation for cardiology and heart surgery by U.S. News & World Report and stands as the only heart program in central Ohio to achieve this ranking.



Magnet®

The Ross Heart Hospital has earned a third Magnet® designation by the American Nurses Credentialing Center. Approximately 7 percent of all registered hospitals in the United States have achieved Magnet status, and only 2 percent of registered hospitals have been redesignated.



Beacon

The Ross Heart Hospital's nursing staff on Two Ross has received the prestigious Beacon designation for the second time. Two Ross achieved this award at the silver level, signifying continuous learning and effective systems to achieve optimal patient care.



2018: Leading Heart and Vascular Care in Central Ohio



7,500+

Interventional cardiology procedures performed annually

2,700+

Annual cardiac and vascular surgeries

National leader

In implanting ventricular assist devices

165

Inpatient rooms

36

Outpatient recovery bays

Landmark 500+

Heart transplants performed in 2018 here at central Ohio's only adult heart transplant program

More than 270

Cardiovascular research projects underway

600+

Researchers, faculty and staff at the David Heart and Lung Research Institute



One of the **largest** Electrophysiology programs in Ohio and the region



First

Level 1 cardiovascular emergency program in Ohio

55,000

Annual admissions and outpatient visits

Leading the way....as we look to the future



LEADING THE WAY

Our heart doctors and engineers are working together to save lives by creating 3D printed aortas.

The future is now

Research and engineering are working together to save lives by creating 3D printed aortas.



LEADING THE WAY

Cardiac arrest kills nearly 10 victims—we're helping people beat those odds.

We're helping people beat those odds with an innovative emergency resuscitation device.

A research team is working on a device that can help resuscitate people who have suffered a cardiac arrest.



LIVING THE WAY

An Ohio State nurse just developed an innovative app to help heart patients.

What if every patient could have their own personal health and medical data?



At Ohio State's Wexner Medical Center, heart doctors and engineers are working together to save lives by creating 3D printed aortas.

Heart disease is the leading cause of death in the United States. In Ohio, heart disease is the leading cause of death for both men and women. In fact, heart disease is the leading cause of death for all Ohioans.

An Ohio State nurse just developed an innovative app to help heart patients.

The app is called "Heart Health" and it's designed to help heart patients manage their health. It includes a variety of features, including a symptom checker, a medication tracker, and a heart rate monitor.

The Ohio State Wexner Medical Center "Best in Ohio" for heart and liver transplants.

The Ohio State Wexner Medical Center has been named "Best in Ohio" for heart and liver transplants. This is a testament to the quality of care provided by the center's transplant team.



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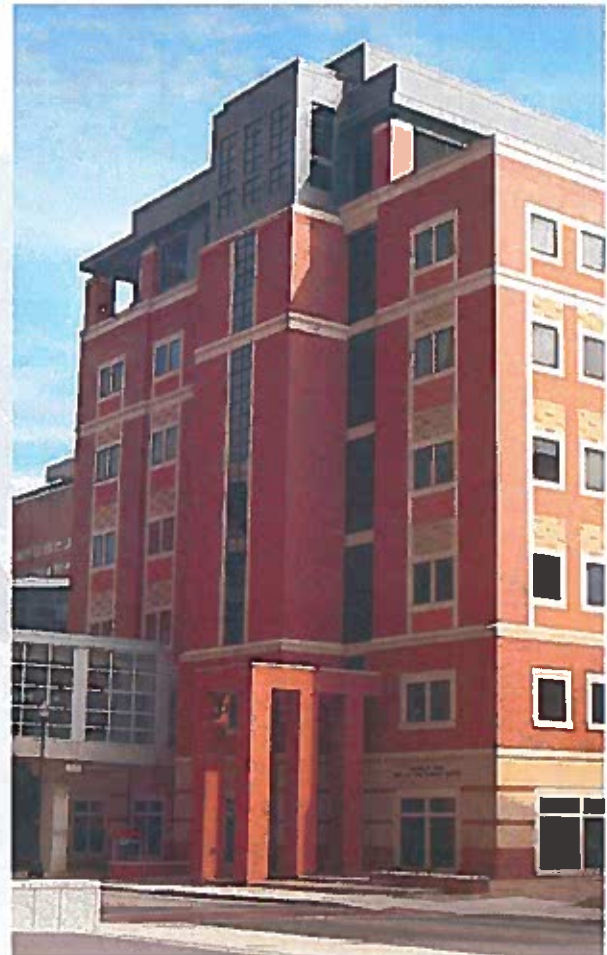
Davis Heart and Lung Research Institute (DHLRI)

600+ faculty, staff, students, fellows on DHLRI team

Researchers representing eight OSU colleges and nearly twenty different departments/divisions

270 active clinical trials

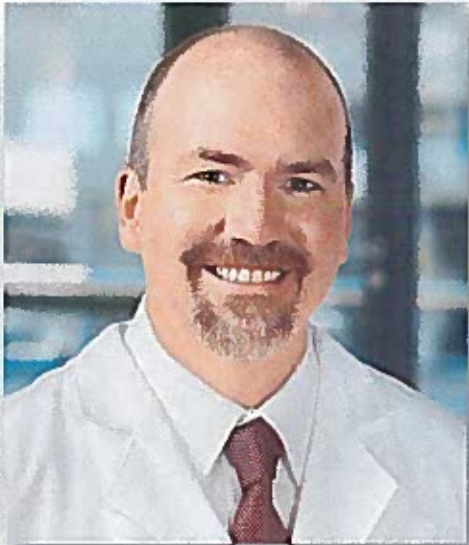
10 clinical cores associated with heart and lung disease



Outstanding Investigator Award

Peter Mohler, PhD

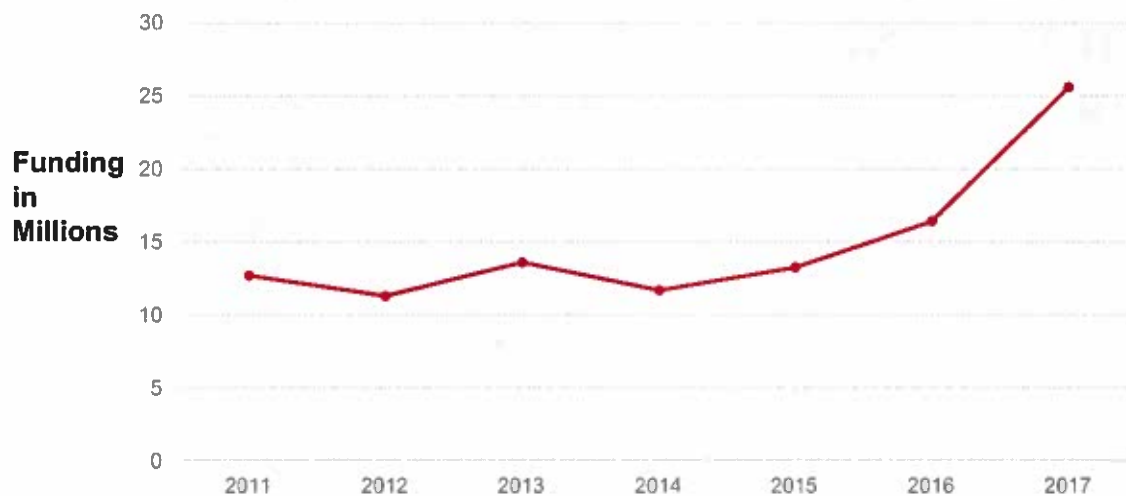
NIH R35 Outstanding Investigator Award



- Vice Dean for Research;
- Director, Dorothy M. Davis Heart and Lung Research Institute;
- Chair, Department of Physiology & Cell Biology;
- Professor, Departments of Physiology & Cell Biology & Internal Medicine;
- William D. and Jacquelyn L. Wells Chair in Cardiovascular Research

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NIH Funding Ranking Improved 27 Places in 5 Years



Source: National Heart, Lung and Blood Institute

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Pioneering a New Approach to Heart Valve Replacement

Scott Lilly, MD, PhD, Greg Rushing, MD, and Prasad Dasi, PhD

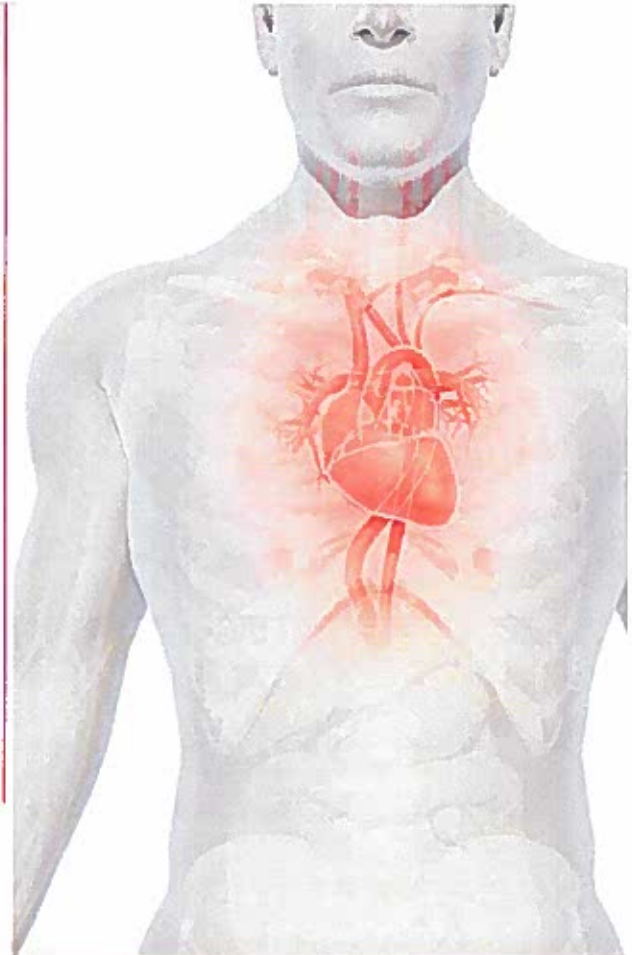
3D Modeling & Printing of Aortic Valve



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Ohio State Shares \$17.7 Million Award For Heart-Failure-Sleep Trial

- Ohio State leads a multicenter trial looking at oxygen therapy for patients with heart failure and central sleep apnea
- Enrolling 800+ people at more than 30 sites across the country



18 Million Dollar Gift to support the First Center in the Nation for Heart Failure and Arrhythmia

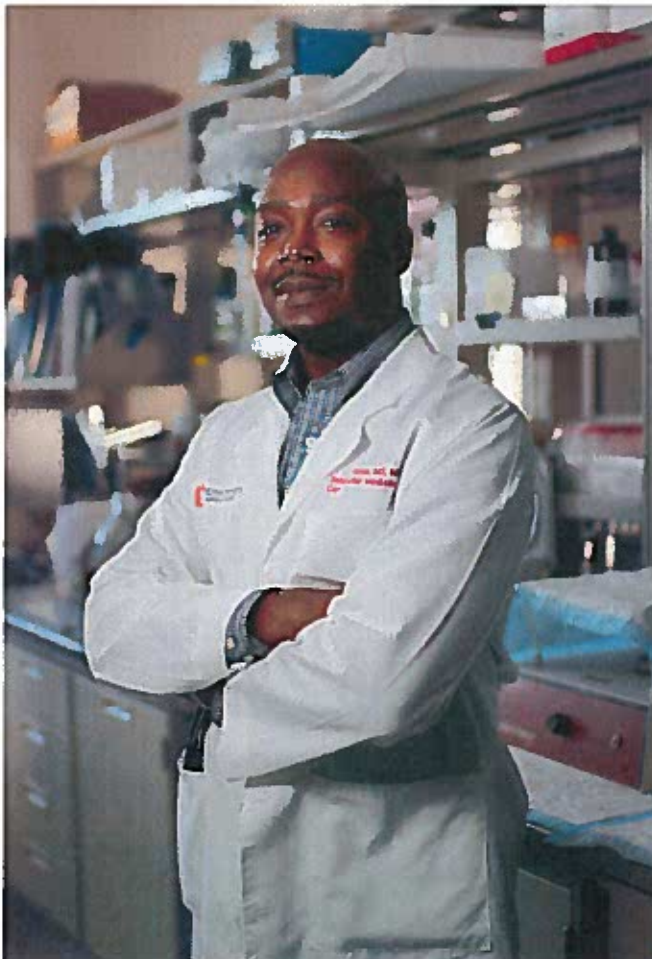


The Bob and Corrine Frick Center For Heart Failure and Arrhythmia is a first-in-the-nation center to support life-changing research and education about the connection between heart failure and arrhythmia



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<https://wexnermedical.osu.edu/ways-to-give/bob-and-corrine-frick>



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Advanced Heart Failure Center

- the largest heart failure program in central Ohio
- treating more than 2,000 patients and offering the full spectrum advance heart failure therapies
- Translational research
- High enroller in clinical trials
 - Including novel implantable devices
 - First in US implants

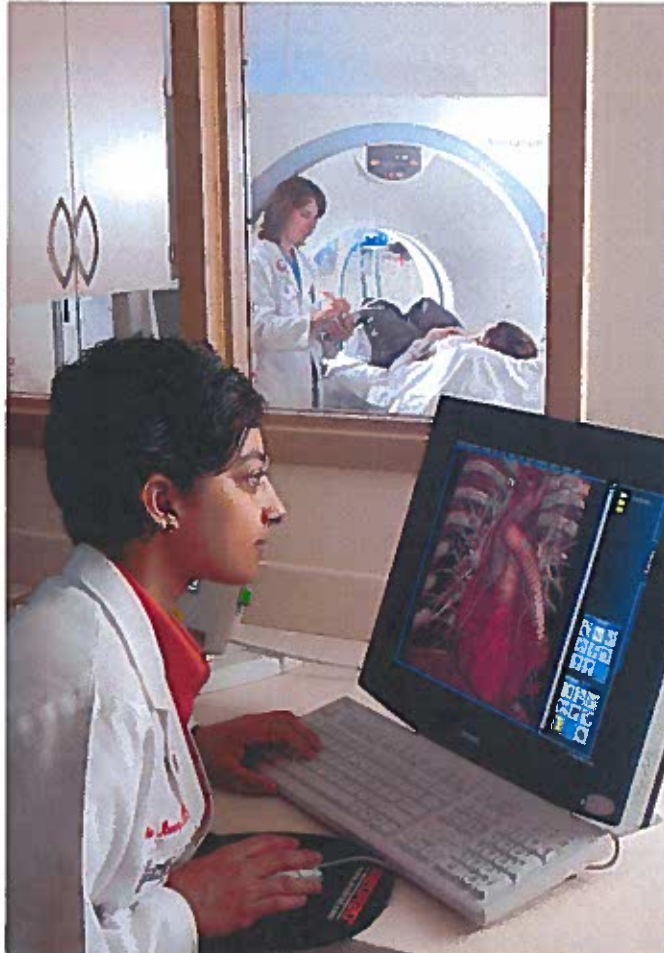
Sakima Smith, MD, Heart Failure and Transplant Medicine
NIH funded investigator



Nahush Mokadam, MD, Director, Division of Cardiac Surgery

Heart/Lung Transplant and Mechanical Assist

- As central Ohio's only adult transplant program, Ohio State has performed more than 500 heart transplants
- We are home to a high-volume mechanical support program offering every available device option to our patients



Leaders in Cardiovascular Imaging

Dedicated cardiovascular imaging center provides the most advanced imaging expertise in the region

- Cutting edge clinical care and quaternary referral center
- Internationally known researchers



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Leaders in Interventional Cardiology

- High-volume team of interventional cardiologists, performing more than 7,500 procedures each year
- Regional STEMI program
- Level 1 Program
- ECPR program
- Early adopter of radial artery catheterization 2010
- Novel clinical trials



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Leaders in Arrhythmia Care

- Largest arrhythmia program in Ohio
- One of the highest volume programs in the nation
- Offering expertise in all forms of heart rhythm disturbances, most notably in atrial fibrillation ablation
- Leaders in genetic research for electrical abnormalities

Integrated Vascular Center

- Fully integrated care for routine and complex vascular disease.
- Home to the area's only Aortic Center, combining multidisciplinary expertise from cardiac and vascular surgeons



Konstantinos Boudoulas, MD.
Director of Interventional Cardiology
Director, Cardiac Cath Lab



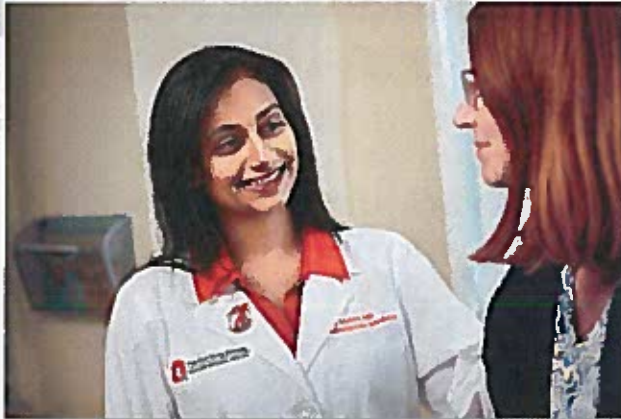
Scott Lilly, MD PhD
Medical Director of
Structural Heart



Gregory Rushing, MD
Surgical Director of
Structural Heart

Structural Heart Disease Center

- Excellence in the diagnosis, treatment and management of complex valve conditions
- Offer variety of clinical trials evaluating groundbreaking therapies for patients with structural heart disease
- Innovators of novel therapies and tools



Laxmi Mehta, MD, Director of Preventative Cardiology and Women's Cardiovascular Health

Women's Heart Program

- The Women's Cardiovascular Health Clinic is one of only a handful of clinics in the country devoted to women's heart health
- Our experts are leading national research on the differences and disparities in women's heart care



Curt Daniels, MD, Director of the Adolescent and Adult Congenital Heart Disease Program

Adult Congenital Heart Disease Program (ACHD)

- Home to a dedicated team of specialists providing the region's leading care for congenital heart disease
- Our Adult Congenital Heart Disease (COACH) program consolidates specialized resources required for the care of adult congenital cardiac patients
- Widely recognized national leaders in COACH program



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Richard M. Ross Heart Hospital

The Only Hospital in central Ohio nationally ranked in cardiology and heart surgery by U.S. News & World Report.

Our expert physicians and staff can treat any cardiovascular condition, and our researchers are continually turning today's science into tomorrow's treatments.

Thank You

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