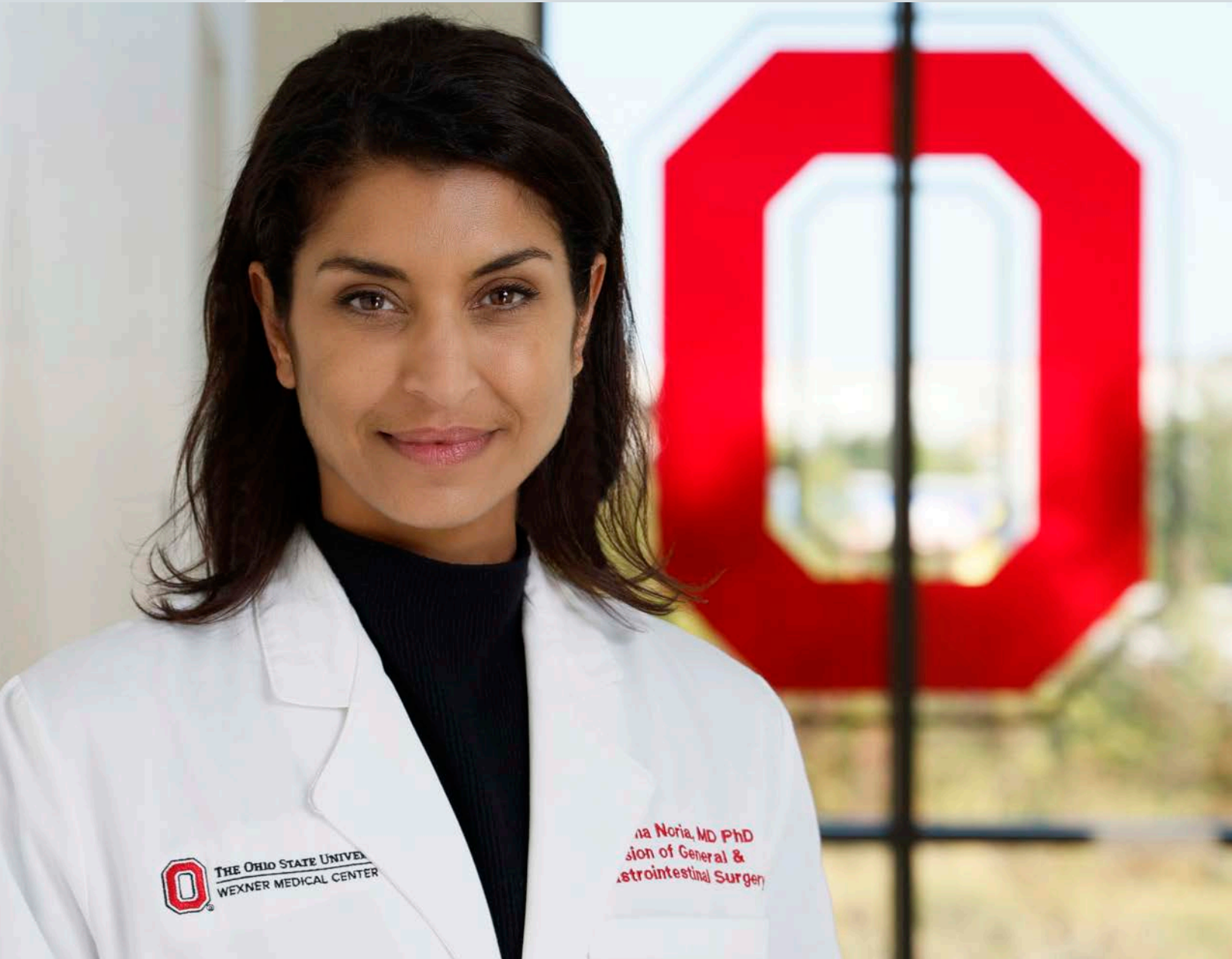




THE OHIO STATE
UNIVERSITY

WEXNER MEDICAL CENTER



THE OHIO STATE UNIVERSITY WEXNER MEDICAL CENTER

Department of Surgery

YEAR IN REVIEW | FY2022



“It is truly a privilege to be a Buckeye surgeon, and if you have a moment, I invite you to view a new video that gives a peek into our people, our approach and our unique qualities. You will find the video at go.osu.edu/buckeye-surgeon.”

Timothy Pawlik, MD, PhD, MBA

I frequently talk about what it means to be a Buckeye surgeon because I believe we have something quite remarkable happening in The Ohio State University Department of Surgery. **There is an energy here that is dynamic, inviting and always changing.** It is an environment that supports big ideas, bold discoveries and a commitment to patients that is remarkably inspiring. The optimistic atmosphere you will find in our department is then amplified by the partnerships, collaboration and enthusiasm we find across our medical center, university and city.

As a department, we have spent this past fiscal year doing everything possible to live up to our collective values, which include Excellence, Integrity, Innovation, Education, Quality and Diversity. Throughout this Year in Review brochure, we hope you will see how this led to incredible new ideas in patient care, research and education.

We are tremendously proud of our awards and recognition, placing us among the health care elite including:

- **No. 6 ranking for National Institutes of Health research funding**
- **No. 6 ranking for our general surgery residency program by Doximity’s Residency Navigator**
- **Becker’s Top 100 Great Hospital**
- **Forbes America’s Best Large Employers**
- **CMS five-star quality rating**

There is exciting construction progress occurring with our new 26-story inpatient hospital and in the Ohio State Innovation District, and we have recently added even more Outpatient Care locations across central Ohio. The end result of all this construction, expansion and investment is that each Buckeye surgeon has access to the latest technology, state-of-the-art facilities and breakthrough therapies to treat a remarkable array of conditions and diseases for better outcomes.

After reading through this brochure, what I hope you will realize most of all is our department’s pride and our commitment to patients.

Thank you, and Go Buckeyes!

Timothy Pawlik, MD, PhD, MBA
Chair, Department of Surgery
The Urban F. Meyer III and Shelley M. Meyer Chair for Cancer Research
Surgeon in Chief

To learn more about Ohio State and the Department of Surgery, visit medicine.osu.edu/surgery.



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Buckeye (nickname), a nickname for residents of the U.S. state of Ohio, the “buckeye state,” Ohio State Buckeyes, the intercollegiate athletic teams of the Ohio State University.

Planning for success!

The Department of Surgery at The Ohio State University Wexner Medical Center keeps a steady focus on the future. Our mission, vision and values serve as a guide for department decisions to ensure we're continually moving forward in a deliberate way. This doesn't limit our flexibility but does keep us focused on continual improvement in each of the five goal areas — talent and culture; research; education; health and well-being; and resource stewardship.

Department of Surgery – Mission

We provide exceptional, patient-centered care, lead innovative surgical research and train the next generation of surgeon leaders and scientists.

Department of Surgery – Vision

We'll improve the care of patients by building innovative clinical surgical programs and advancing translational scientific knowledge.

Department of Surgery – Values

Excellence, Integrity, Innovation, Education, Quality and Diversity

Department of Surgery – Structure

The Ohio State Department of Surgery comprises:

Nine surgical specialty divisions:

- Cardiac Surgery
- Colon and Rectal Surgery
- General and Gastrointestinal Surgery
- Pediatric Surgery
- Surgical Oncology
- Thoracic Surgery
- Transplantation Surgery
- Trauma, Critical Care and Burn
- Vascular Diseases and Surgery

11 multidisciplinary centers:

- Burn Center
- Center for Bariatric Surgery
- Center for Minimally Invasive Surgery
- Center for Research, Education and Advancement of Transdisciplinary Exploration (CREATE)
- Center for Surgical Health Assessment, Research and Policy (SHARP)
- Comprehensive Esophageal Health Center
- Comprehensive Hernia Center
- Comprehensive Transplant Center
- Comprehensive Wound Center
- Organ Repair and Assessment Center
- Trauma Center



OUR BUCKEYE SPIRIT MOVES US FORWARD

The Department of Surgery goals

Talent and culture

Through recruitment and training, create a high-performing culture that values accountability, inclusion and collaboration. Continue to improve the faculty experience for all, with additional focus on cultivating women leaders in surgery.

Research

Become a top 5 National Institutes of Health-funded surgery department and national leader in health sciences research by supporting collaboration and developing the resources needed to pursue grants, publication opportunities and national awareness.

Education

Foster a culture that emphasizes daily learning within a supportive, professionally challenging environment that attracts the nation's best and brightest faculty, residents and fellows.

Health care delivery

Serve as a surgical resource with an expanded scope of influence by reducing disparities of care for disadvantaged populations and working to become a surgical destination of choice locally, regionally, nationally and globally.

Resource stewardship


Focus on both cost savings and exterior funding, using metrics to track progress, establish accountability and identify areas for improvement.



Standouts join the Buckeye surgical team


The Ohio State University Department of Surgery is proud to welcome our newest team members. We look forward to their energy, contributions and collaboration as we develop new partnerships, new learning and new medical breakthroughs.

We're always scouting for new talent. If you're interested in joining the surgical team at the Ohio State Wexner Medical Center — one of the largest and most diverse academic health centers in the nation — we invite you to explore available opportunities at **wexnermedical.osu.edu/recruitment**.




Musab Alebrahim, MD
Assistant professor of Surgery, Division of Transplantation Surgery

Dr. Alebrahim completed his transplant surgery fellowship at the Ohio State Wexner Medical Center with advanced training in abdominal organ transplantation and now specializes in organ procurement and donor management. He plans to explore clinical outcomes research to improve transplant surgical techniques, as well as expand the donor pool and extend organ preservation.




Andrew Gunderson, PhD
Immunology scientist, Division of Surgical Oncology

Dr. Gunderson is researching B cell and humoral immunity in cancer with a specific focus on the immunobiology of tertiary lymphoid structures in solid tumors and immune responses to cytotoxic therapy. He has a particular interest in the regulation of adaptive immunity, B-regulatory cells, TGF-β biology and the immunoregulatory roles of cancer-associated fibroblasts using preclinical mouse models of epithelial malignancy.




Barbra Miller, MD
Co-director, Comprehensive Adrenal Program; clinical professor of Surgery, Division of Surgical Oncology

In addition to her role as professor, Dr. Miller helped launch the new Comprehensive Adrenal Program. She cares for patients with endocrine disorders of the thyroid, parathyroid, adrenal gland, pancreas and gastrointestinal tract, and is internationally known for her expertise in adrenal disorders and adrenal cancer. Her research focuses on adrenal cancer, benign adrenal disorders, subclinical disease states and palliative care.



Jaimie Nathan, MD
Clinical professor of Surgery, Division of Pediatric Surgery

Dr. Nathan is chief of Pediatric Abdominal Transplant and Hepatopancreatobiliary Surgery at Nationwide Children's Hospital, principal investigator in the Abigail Wexner Research Institute and director of the Nationwide Children's Hospital pancreatic islet cell isolation laboratories. As a pediatric transplant surgeon, he specializes in liver, kidney and intestinal transplantation, as well as treatment of children with pancreatic and hepatobiliary diseases. He brings expertise in a number of areas, including an advanced procedure — total pancreatectomy with islet auto transplantation — that helps children with debilitating pain and impaired quality of life from acute recurrent and chronic pancreatitis. His research focuses on the surgical management of pancreatic diseases in children.



Kate Peng, MD
Clinical assistant professor of Surgery, Division of Vascular Diseases and Surgery

Dr. Peng treats and manages a vast diversity of vascular conditions using techniques ranging from traditional open surgery to innovative endovascular work. She also has a unique interest in exploring the application of the robotic platform to treat vascular diseases, including compressive syndromes. Her research focuses on studying the disparity of transcatheter artery revascularizations performed in different settings and among different subspecialists.




Sara Scarlet, MD, MPH
Clinical assistant professor of Surgery, Division of Trauma, Critical Care and Burn

Dr. Scarlet's clinical specialty focuses on surgical critical care, trauma, acute care surgery and burn surgery. She also has expertise in clinical ethics consultation, having served as an ethics consultant for several years during her residency and fellowship training. With a research interest in the intersections of trauma surgery, public health and ethics, she's currently studying surgical care of incarcerated people and how incarceration contributes to health disparities.




Dana Schwartz, MD
Clinical assistant professor of Surgery, Division of Pediatric Surgery

A pediatric surgeon and associate trauma medical director at Nationwide Children's Hospital, Dr. Schwartz's clinical and research interests are in trauma and burn surgery, with additional clinical interest in pediatric and adolescent surgical oncology, treating pathology such as neuroblastoma, Wilms tumor, sarcoma, ovarian tumor and melanoma. Further areas of expertise include general pediatric surgery, neonatal surgery and advanced minimally invasive surgery.



Navdeep Singh, MBBS
Clinical assistant professor of Surgery, Division of Transplantation Surgery

Dr. Singh is now a clinical assistant professor after completing his three-year transplant surgery fellowship at Ohio State. His interests include outcomes research in immunosuppression management in post-transplant patients, exploring new methods to expand the organ donor pool and improving the clinical outcomes of vascular access and organ procurement.



Carrie Valdez, MD
Medical director of trauma services; clinical assistant professor of Surgery, Division of Trauma, Critical Care and Burn

With a passion for treating and managing acutely ill surgical patients from admission to the operating room through their critical care, Dr. Valdez merges that clinical interest into her research, studying outcomes of traumatically injured patients. Additionally, she's completed research on the management of rib fractures and post-admission pain management in acute care surgery patients utilizing non-opioid regimens.



Awards and Recognition

Division of Cardiac Surgery

John Bozinovski, MD – Program director of the Cardiothoracic Surgery Independent Residency

Matthew Henn, MD – Medical director for Perioperative Services for the Ross Heart Hospital

Bryan Whitson, MD, PhD – Organ Procurement & Transplantation Network board of directors

Division of Colon and Rectal Surgery

Alessandra Gasior, DO – Fellow, American College of Surgeons

Syed Husain, MBBS – Chair of CARSITE, a program of the Association of Program Directors for Colon and Rectal Surgery

Matthew Kalady, MD – Chair of the International Society for Gastrointestinal Hereditary Tumours

Division of General and Gastrointestinal Surgery

Courtney Collins, MD, MS – Department of Surgery Faculty Teaching Award, 2021

Daniel Gallego-Perez, PhD – Distinguished Alumni Award, Centro de Estudios de la Salud, 2021

Michael Meara, MD, MBA – Medical director of the Robotic Surgery Program

Benjamin Poulouse, MD, MPH – Top 5 Longitudinal Practice Preceptors across The Ohio State University College of Medicine

Division of Pediatric Surgery

Gail Besner, MD – 2021 American College of Surgeons Sheen Award

Christopher Breuer, MD – Allen Distinguished Scholar in Pediatric Research

Renata Fabia, MD, PhD – President of the North American Burn Society

Peter Minneci, MD, MHSC – President of Midwest Pediatric Surgical Research Collaborative

Benedict Nwomeh, MD, MPH – Member of American College of Surgeons’ Academy of Master Surgeon Educators

Richard Wood, MD – Director of the Nationwide Children’s Hospital’s Pediatric Colorectal Surgery destination center

Division of Surgical Oncology

Doreen Agnese, MD – Chief of staff-elect for the OSUCCC – James

Priya Dedhia, MD, PhD – 2021-22 Society of University Surgeons’ Junior Faculty Research Award

Mary Dillhoff, MD – Society of University Surgeons

Samilia Obeng-Gyasi, MD, MPH – Society of University Surgeons’ Junior Faculty Award for Underrepresented Minorities

Bridget Oppong, MD – Deputy director of the Center for Cancer Health Equity at the OSUCCC – James

Ko Un “Clara” Park, MD – Young Investigator Award from the Global Breast Cancer Conference

Division of Thoracic Surgery

Division received score of three stars from the Society of Thoracic Surgeons for lobectomy and esophagectomy, the highest level

Peter Kneuert, MD – Thoracic Surgery Directors Association In-Training Exam committee member

Robert Merritt, MD – Medical director for Inpatient Services at the OSUCCC – James

Division of Transplantation Surgery

Sylvester Black, MD, PhD – Associate editor for the *American Journal of Transplantation*

Ginny Bumgardner, MD, PhD – Manuscript selected as “Top Read” by editors of *The Journal of Immunology*

Division of Trauma, Critical Care and Burn

Nicole Bernal, MD – American Burn Association’s Verification committee and Quality & Burn Registry committee – Data Definitions and Integrity Committee Leader

Carrie Valdez, MD – Medical director of Trauma Services for University Hospital

Jonathan Wisler, MD – Associate director of the Research Training Program, Department of Surgery

Andrew Young, MD, FACS – Medical director of Trauma Services for East Hospital

Division of Vascular Diseases and Surgery

Michael Go, MD – Intersocietal Accreditation Commission’s Vascular Testing board of directors

Mounir Haurani, MD – Vascular and Endovascular Surgery Society chair of Communication committee and DEI committee

Kristine Orion, MD – Vascular and Endovascular Surgery Society councilor-at-large and chair of Membership Development committee

Timur Sarac, MD – Senior editor of *Gateways in Vascular Surgery*

Bryan Tillman, MD, PhD – Retrievable Stent Accelerator finalist



FY2022 by the numbers

Education

General Surgery Residents: 50

46% male; **52%** female; **2%** non-binary

18% underrepresented minorities in medicine

20 are members of the AOA national medical honor society or graduated from a **top 25** U.S. News & World Report Best Medical School

30% currently hold advanced degrees

100% of the 2022 class matched into a fellowship in their preferred specialty

Cardiothoracic Surgery Residents: 2

Vascular Surgery Residents: 2

Fellows: 26

Number of ACGME-accredited surgical residencies: **3**

Specialty fellowships: **6**

No. 6 general surgery residency program in the nation on Doximity's 2022-2023 Residency Navigator



To learn more, visit medicine.osu.edu/surgeryed

Training each Buckeye to be a confident, independent surgeon

Every resident and fellow of The Ohio State University Wexner Medical Center Department of Surgery is supported as they pursue their unique professional and personal goals. Because our program offers a customizable training path, each resident can choose from a broad range of education opportunities to craft a personal experience that supports the career they envision.

Training

- **Clinical Skills Education and Assessment Center**
 - o State-of-the-art, high-fidelity simulation labs, including open, laparoscopic and task trainers
 - o Video conferencing capabilities where surgeries happening anywhere in the world provide trainees a bird's-eye view of the surgery on one screen and from inside the patient on another, all while speaking with the physicians performing the procedure
 - o Formal assessments and mentorship meetings
- **Live case experience**, with PGY2 residents averaging more than 300 cases by the end of their PGY2 year
- **Novel alcohol-based soft tissue preservation** extends reuse of donated bodies and significantly improves the ability to mimic living tissue

OR coaching program

- Residents receive feedback from senior surgeons, in addition to the attending for the case
- Includes procedure-specific suggestions, as well as constructive comments related to technique and OR management, including small procedural changes or potentially negative habits that can be corrected before becoming ingrained
- Observation and evaluations are completed for these common procedures:
 - o Laparoscopic cholecystectomy
 - o Inguinal hernia
 - o Ventral hernia
 - o Laparoscopic colectomy
 - o Robotic cholecystectomy
 - o Robotic inguinal hernia
 - o Open colectomy
 - o Total thyroid
 - o Parathyroid
- To date, we have completed 184 OR coaching sessions/cases and 549 SEPA evaluations for coaching
- All chief residents completed six expected coaching sessions
- The four current faculty coaches are Courtney Collins, MD, MS; Aslam Ejaz, MD, MPH; Amber Traugott, MD; and Michael Go, MD

To learn more, visit medicine.osu.edu/orcoaching

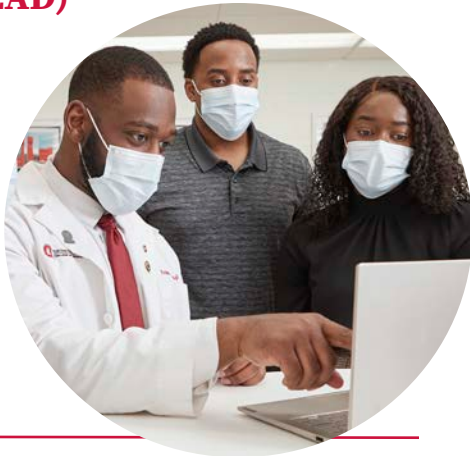


Upgraded robotic curriculum

- Leads to a da Vinci Equivalency Certificate
- Begins with a series of dry labs, followed by case-specific pig labs, including high-volume procedures such as colectomy, gastrectomy and pancreatectomy
- Additional simulation training available during each surgical rotation

Lead, Engage, Accelerate, Drive in Surgery (LEAD)

- This leadership elective is available to PGY 2-5 general surgery and lab residents
- The one-year course teaches effective leadership skills, crucial for a successful surgical career
- Small class size of 15 or fewer promotes discussion and input from varied perspectives
- To learn more, visit medicine.osu.edu/lead



Education

Exposure to varied surgical settings

- University Hospital
- The Ohio State University Comprehensive Cancer Center – Arthur G. James Cancer Hospital and Richard J. Solove Research Institute
- Richard M. Ross Heart Hospital
- Ohio State East Hospital
- Nationwide Children's Hospital
- Outpatient surgery centers across central Ohio



Education Team

If you want to learn more about our education options and how they can be customized to each trainee's interests, please contact our education team members:

- Brittany Williams – program manager, General Surgery Residency
- Anna Patterson – program manager, Research Education
- Lori Bardon – program manager, divisions of General and Gastrointestinal Surgery; Colon and Rectal Surgery; and Trauma, Critical Care and Burn
- Monique Singleterry Wells – program coordinator, divisions of Cardiac Surgery, and Vascular Diseases and Surgery
- Jennifer Long – program manager, Division of Surgical Oncology
- Xiaodong (Phoenix) Chen, PhD, MSc, BEng – senior director of Education Science
- Anne Krabacher, PhD – director of Education

Education

Personal career development

All residents complete a minimum one-year research experience or a specialty fellowship during their residency, unless otherwise exempted.

Subspecialty surgical fellowships

- | | | |
|---|------------------------------------|------------------------------|
| • Advanced therapeutic endoscopy and gastrointestinal surgery | • Surgical critical care | • Surgical oncology |
| • Cardiothoracic surgery | • Abdominal transplant surgery | • Vascular surgery |
| • Colorectal surgery | • Pediatric surgery | • Minimally invasive surgery |
| | • Pediatric surgical critical care | • Bariatric surgery |



Research Training Program

- This includes a mentored research project in any area of interest and completion of an advanced degree such as:
 - Master of Medical Science, with a track in translational, clinical, health services and medical education research
 - Master of Public Health
 - Master of Business Administration
 - An alternate Master of Science degree, such as a Master of Science in Anatomy
- To learn more, visit medicine.osu.edu/rtp

Residency Wellness Program

The Ohio State Department of Surgery recognizes the unique stressors of residency and offers a wellness program to support the physical, mental, social and professional wellness of our residents. Our residency wellness committee plans themed events and outings, such as our Resident Appreciation Day at Cedar Point, to help our trainees establish unity and maintain a supportive environment.

Cardiothoracic surgery integrated residency (New)

- Six-year integrated program to prepare for specialization in cardiothoracic surgery in both academic and community settings
- Rotation on both general and cardiothoracic services at the Ohio State Wexner Medical Center, and complete rotations on the congenital heart service at Nationwide Children's Hospital
- To learn more, visit medicine.osu.edu/ctsurgery

Vascular surgery residency (New)

- One of the few integrated vascular surgery residency programs in the nation
- Five-year program develops competency in the surgical treatment of patients with complicated vascular conditions and prepares trainees to serve in both academic and clinical care settings
- To learn more, visit medicine.osu.edu/vascular

FY2022 by the numbers

Research

Total funding: **\$19.3 million**

Active grants: **105**

Total NIH funding: **\$15.3 million**

Clinical trials: **157**

Publications: **558**

Principal investigators: **55**



NIH awards R01, R03, R21, K08, UM1, T32 and P30 grants: **26**

Blue Ridge ranking based on federal fiscal year 2021 (Oct. 1, 2020-Sept. 30, 2021)

Buckeyes are determined and inquisitive



As a team, we're always pushing for the next discovery, which is why the Ohio State Department of Surgery has committed significant time, talent and facilities to the research process. We encourage our researchers, including residents and fellows, to continue questioning and probing for new discoveries to transform patient lives.

Fueling even more discovery

In 2015, we were ranked 25th in National Institutes of Health (NIH) research funding. With resolve and focus, we've made steady progress since:



Our university supports significant research as well

The Ohio State University is one of only a few universities in the U.S. that, in a single location, houses 15 different colleges, including seven health science colleges and a college of agriculture. This gives us all the tools that are needed — the creative minds, the expertise, the experience and the world-class facilities — to discover innovative solutions to complex problems.

In 2021, Ohio State invested:

- \$1.236 billion in total R&D expenditures
- \$581 million in federal R&D expenditures

Supporting big ideas

- Department of Surgery initiatives:
 - **Center for Research, Education and Advancement of Transdisciplinary Exploration (CREATE)** supports interprofessional project teams to streamline product and technology development and save costs.
 - **Master of Medical Science degree** – Surgery trainees interested in a research career can pursue with a curriculum track in either basic/translational science or clinical science.
- **University research offices** – Our scientists find support from specific university offices, including The Ohio State University Office of Research, as well as from dedicated offices for sponsored programs, clinical trials, research compliance, responsible research practices, technology and commercialization, and research information technology.
- **Center for Clinical and Translational Science (CCTS)** provides financial, organizational and educational support to biomedical researchers by leveraging expertise from the 18 colleges and schools across the university, including scientists and clinicians from the seven health science colleges, the College of Engineering, the Wexner Medical Center and Nationwide Children's Hospital, community health and education agencies, business partnerships and regional institutional network partnerships.



Developing a passion for research

Big ideas can come from anyone, so our residents and fellows are actively involved in research that appeals to them personally — even as principal investigators themselves. As a recent example, resident Jing Han, MD, received a \$103,668 NIH Service Research Award from the National Institute of Allergy and Infectious Diseases.

State-of-the-art spaces

Our Innovation District provides collaborative space for learning, research and ideas to thrive:

- **Interdisciplinary Research Facility** provides 305,000 square feet where students, academic researchers, city leaders, Fortune 500 businesses and new start-ups — just steps away from each other — have the potential to share promising new ideas and accelerate discovery. Opening 2023.
- **Interdisciplinary Health Sciences Center** provides 220,000 square feet of collaborative space and innovative technology for learning across the colleges of Medicine, Nursing, Pharmacy, Dentistry, Optometry, Public Health and Veterinary Medicine. Opening 2024.
- **Biomedical Research Tower** is currently the largest research facility on The Ohio State University campus; includes the Imaging Core Facility, which provides researchers high-resolution imaging using a variety of different instruments. Several Department of Surgery research laboratories are also located in BRT.



Research

Formal team seminars and faculty research meetings

To foster ongoing collaboration and discussion, researchers in the Department of Surgery – including faculty, trainees and staff – can participate in our quarterly research seminar series. Designed to serve as an essential “primer” of processes and an opportunity to develop contacts for research-related activities, the seminars are intended to enlighten and enhance cooperation and compliance across the entire research team. We’ve also organized a formal biannual research-focused faculty meeting to highlight topics of interest to research faculty, and continually improve our research program and plan for future growth.

Pioneering methods to improve transplant outcomes and donor organ utilization

The **COPPER laboratory**, led by co-directors Sylvester Black, MD, PhD, and Bryan Whitson, MD, PhD, is a model of collaboration, with investigators in thoracic and abdominal transplantation, biochemical engineering, biomedical engineering, mechanical engineering, molecular biology and physiology working together to expand the science of endothelial cell repair in ischemia reperfusion and exploit ex vivo perfusion to assess, repair and modify donor allografts. With their guidance, the Ohio State Comprehensive Transplant Center was the first in Ohio to offer extended ex vivo perfusion, a process that uses a mechanical system to respire, warm, nourish and repair donor lungs outside the body, thus improving the odds that they can be used for transplant. Learn more at medicine.osu.edu/copperlab.

Directly linking the Department of Surgery with other scientists

With an organizing principle that “no one of us is as bright as all of us,” the **Center for Research, Education and Advancement of Transdisciplinary Exploration (CREATE)**, led by director Sylvester Black, MD, PhD, establishes project teams that include health care providers, academic and clinical faculty, students, partners from private industry, engineers and inventors. Its aim is to support research partnerships that can streamline product and technology development, facilitate consultation and save costs. Innovative solutions currently being explored include alternative energy-sourced mechanical ventilation for austere environments, the use of virtual reality in critical care settings and the benefits of Vamos Mobility in critical care. Learn more about CREATE at medicine.osu.edu/create.

Active NIH studies for FY2022:

Ruth Ackah, MD: F32 for Embryologic Origins of Aortopathy: Biomechanical Characterization of Aortic Aneurysms in the NOTCH1 Mutant Model

Sylvester Black, MD, PhD: R01 for Preservation of DCD Allograft Integrity for Liver Transplantation

- Ginny Bumgardner, MD, PhD**
- R01 for Investigating a Novel Cellular Therapy to Prevent and Treat Acute Antibody Mediated Kidney Transplant Rejection
 - TL1 for NRSA Training Core
 - T32 for Advanced Research Training in Immunology for Surgery Trainees (ARTIST)

- William Carson, MD**
- UM1 for The Ohio State University as a Lead Academic Organization (LAO) for the Experimental Therapeutics Clinical Trials Network
 - UM1 for Evaluation of Deoxynucleosides as a Novel Resistance Mechanism for Radiotherapy
 - T32 for Tumor Immunology
 - K12 for OSU K12 Training Grant in Oncology

Courtney Collins, MD, MS: R03 for Frailty, Strength, and Mobility in Older Hernia Patients: A Novel Abdominal Wall Physical Therapy Program

Mona El Refaey, PhD: R00 for Defining New Pathways for Cardiac Automaticity

Jing Han, MD: F32 for The Molecular and Spatial Interactions Between Antibody Suppressor CD8+ T cells and B Cells That Regulate Alloantibody Production After Transplant

- Rehzi Han, PhD,** R01s for:
- ANO5 in Muscle Health and Disease
 - Myokine Function of MG53 in Muscle Injury-Repair and Regeneration

- Pei-Hui Lin, PhD,** R01s for:
- Muscle-Kidney Crosstalk in Age-Related Kidney Disease
 - Ca Signaling Cross-Talk from SR to Mitochondria in Heart Muscle

Prabhakara Nagareddy, PhD, R01 for Thrombocytopoiesis in Diabetes: Role of Damage Associated Molecular Patterns

- Raphael Pollock, MD, PhD,** P30s for:
- Admin. Supp. for NCI P30 Cancer Center Grants to Facilitate the Development of Standardized Electronic Treatment Plan Builds for NCI-Supported Clinical Trials Applicable Across Clinical Research Sites
 - Two Cancer Center support grants

Bryan Whitson, MD, PhD: R01 for Preservation and Rescue of the Lung Donor Allograft for Transplantation

Jonathan Wisler, MD: K08 for Analyzing the Mechanism of Exosome-Mediated DNA Methyltransferase Activity During Sepsis

- Hua Zhu, PhD,** R01s for:
- Preservation of Limbal Stem Cell Function in Corneal Injury
 - Inhibiting Cell Death for Protecting Cardiac Injury

FY2022 by the numbers

Clinical Care

Clinical faculty: **90+**

Advanced practice providers: **80+**

Admissions: **8,299**

wRVUs: **696,519**

OR Cases: **18,567**



Leading with compassion

Every decision made by a Buckeye surgeon is influenced by our empathy and determination to help each patient achieve their best possible physical and mental health and highest quality of life.

How we approach treatment, explain our recommendations, and include patients and their families in every aspect of care

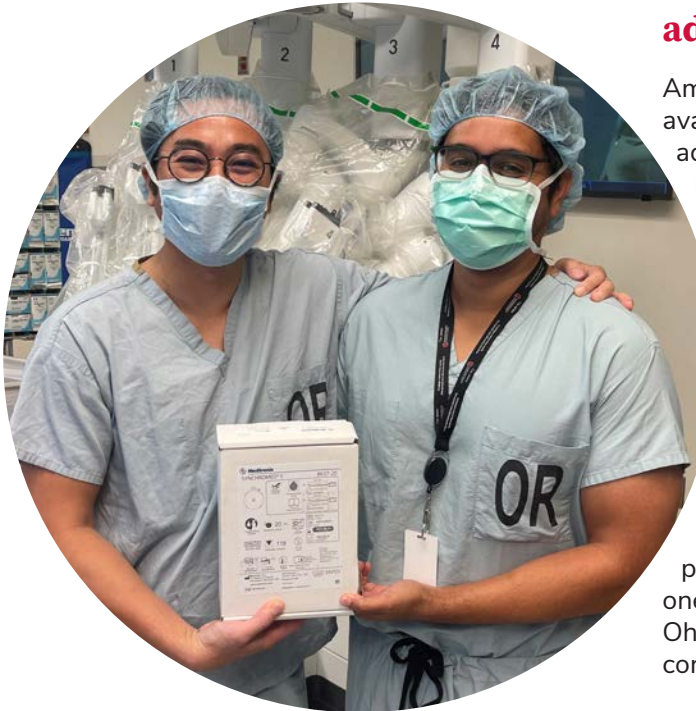
can make a tremendous difference in their attitude and ability to handle even tough treatments and recovery. Our goal is to meet each patient where they are and invest as much time as needed to make them feel comfortable, cared for and respected.

Surgery divisions / FY2022 by the numbers

Cardiac OR cases: 1,000 wRVUs: 77,090	Pediatric OR cases: 4,359 wRVUs: 85,989	Transplantation OR cases: 1,098 wRVUs: 77,125
Colon and Rectal OR cases: 1,622 wRVUs: 48,476	Surgical Oncology OR cases: 2,625 wRVUs: 122,318	Trauma, Critical Care and Burn OR cases: 2,461 wRVUs: 111,715
General and GI OR cases: 2,705 wRVUs: 78,250	Thoracic OR cases: 1,138 wRVUs: 30,132	Vascular OR cases: 1,559 wRVUs: 65,424

Ohio State offers innovative hepatic artery infusion pump therapy for advanced gastrointestinal cancers

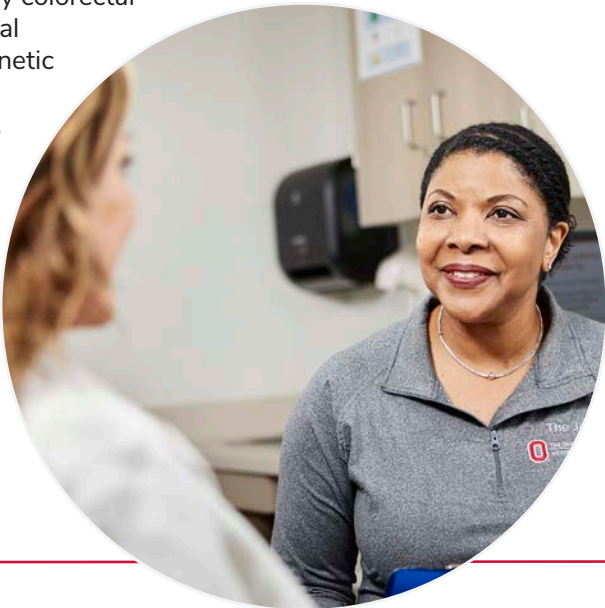
Among the latest specialized treatment options available at the OSUCCC – James for patients with advanced liver cancer, such as cholangiocarcinoma or metastatic colorectal cancer to the liver, is hepatic artery infusion (HAI) pump therapy. An HAI pump is surgically placed, either by open or robotic-assisted approach with an insertion of connected catheter, into the gastroduodenal artery. This allows for highly selective liver-directed infusion of the chemotherapy agent, floxuridine, at 400 times the tolerated systemic dose. As a result, additional systemic toxicity is minimized, there's greater potential for conversion to resectability and disease progression can be slowed. Since the inception of the HAI pump program in January 2021, our team has performed 18 HAI pump placements, which makes us one of the top volume centers in the country. In addition, Ohio State is a founding member of the U.S. HAI consortium to lead research and clinical trials.



Clinical Care

Multidisciplinary Colorectal Cancer Center established at Ohio State

As Ohio State has done for other disease categories, there's now a formal multidisciplinary center for colorectal cancer, where a team of specialists collaborate seamlessly and provide a full spectrum of services. The new Colorectal Cancer Center, led by colorectal surgeon Matthew Kalady, MD, offers colorectal surgery, medical oncology, radiation oncology, surgical oncology and cancer genetic services. It also houses an innovative research program. The team's expertise includes the latest therapies for rectal cancer, advanced stage colorectal cancer and hereditary colorectal cancer syndromes, as well as one of the few anal cancer screening programs in the country. As Dr. Kalady explains, "In addition to the obvious benefit of world-class care, this coordinated approach means patients can start all aspects of their therapy sooner and set multiple appointments with different specialists on the same day. That means treatment doesn't have to completely disrupt their life, which is incredibly important for their outlook, mental health and, ultimately, their physical outcome."



Clinical Care

Teleburn program offers real-time, lifesaving consultations

As the only adult American Burn Association-verified burn center in central Ohio, the Ohio State Comprehensive Burn Center extends patient care across the region through our Teleburn program. Regardless of the hour, area emergency departments can establish a virtual connection with an Ohio State burn specialist to evaluate patients in real time. Based on visual assessment of any burns and conversations with the attending ED physician, the Ohio State burn and trauma team can provide recommendations for both immediate and follow-up care, from simple application of a topical ointment for small, minor burns to patient transfer to our burn center for hands-on evaluation, more intense treatment and possible surgical intervention. In addition, we've recently upgraded the Teleburn program by utilizing technology that uses live video and on demand patient data to further improve collaboration with partner hospitals. This technology provides quicker access, simplifies the collection of pictures and patient information and also supports easy next-day appointment scheduling.



Comprehensive Esophageal Health Center offers more efficient, patient-centered care

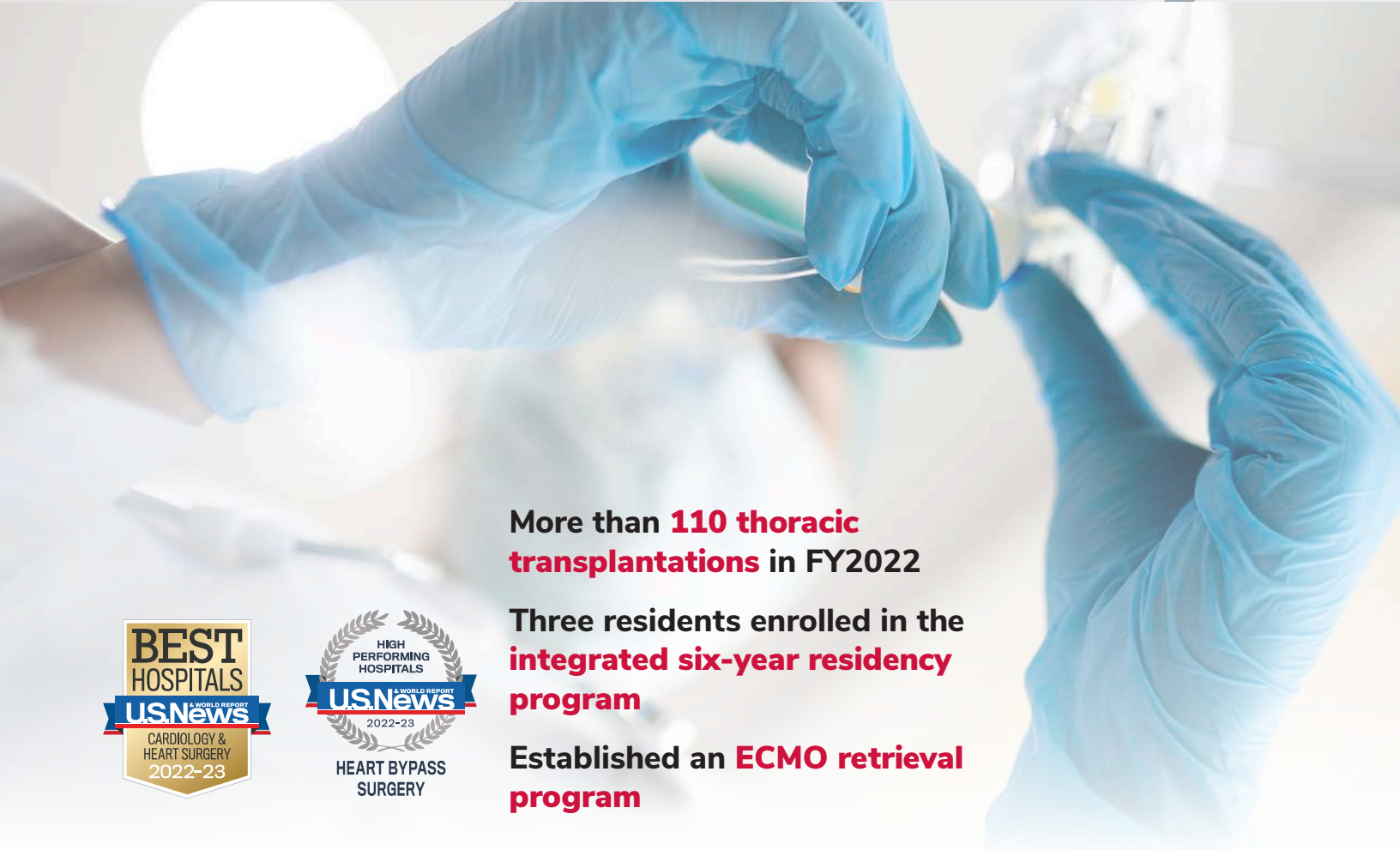
Patients with even the most complex esophageal conditions can now be seen in a single, convenient location at the Comprehensive Esophageal Health Center at Ohio State Outpatient Care New Albany. This one-stop setting has physician offices, testing services and a surgical suite.



The center is considered high-volume for motility procedures, as well as for esophageal surgery for hiatal hernia, paraesophageal hernia and GERD. Also part of this well-organized approach is advanced diagnostic technology, such as EndoFLIP, as well as the latest surgical technology, including a full range of innovative noninvasive and minimally invasive treatments.

Gastroenterologists at the center have subspecialty training in esophageal motility, and our surgeons have completed subspecialty fellowship training in minimally invasive and esophageal surgery. Others involved in patient care include registered dietitians, physical therapists and counselors who can help patients adjust to the impact esophageal conditions may have on their quality of life.

Division of Cardiac Surgery



More than **110 thoracic transplantations** in FY2022

Three residents enrolled in the **integrated six-year residency program**

Established an **ECMO retrieval program**



The Ohio State Heart and Vascular Center brings together a team of highly skilled surgeons, the most advanced technology and world-class facilities to deliver exceptional surgical heart care. We've earned a procedure rating of "high performing" for heart bypass surgery from *U.S. News & World Report*.

We specialize in treating the most complex cardiac surgery patients and can provide less-invasive therapies, coronary artery bypass surgery, complex reoperations, heart valve surgery, aortic surgery, endovascular and transcatheter procedures, heart and lung transplantation, mechanical circulatory support and extracorporeal membrane oxygenation (ECMO).

Primary Programs

- **Thoracic Transplant and Mechanical Circulatory Support** – This cutting-edge program provides advanced procedures such as ex vivo lung perfusion, total artificial heart replacement, minimally invasive left ventricular assist devices (LVAD) and extracorporeal life support, including ECMO.
- **Minimally Invasive and Robotic Surgery** – Our surgeons offer valve replacement through keyhole operations to deliver leading transcatheter aortic valve replacement (TAVR). We also perform minimally invasive procedures, including coronary artery bypass surgery using a robot to mobilize the left internal mammary artery and small left-anterior thoracotomy incisions for an off-pump coronary artery bypass.
- **Total Arterial Off-Pump Revascularization** – We preferentially perform all arterial coronary artery bypass without the use of the heart-lung machine, as well as off-pump coronary artery bypass (OPCAB) without touching the aorta (anaortic) to minimize the risk of stroke.
- **Adult Congenital Heart Surgery** – Our cardiac surgeons at the Ohio State Ross Heart Hospital work in tandem with colleagues from Nationwide Children's Hospital to bridge the gap in care for those adults transitioning from pediatric care for congenital heart disease.

Referral Information

The Division of Cardiac Surgery specializes in the treatment of the most complex cardiac surgery patients, offering a full range of procedures including heart and lung transplantation. This includes patients who require complex reoperations or who have:

- Structural heart disease
- Valvular heart disease
- Advanced heart failure
- Adult congenital heart disease
- Aortic disease



To refer, please call the Division of Cardiac Surgery at **614-293-5502**.

You may also fill out the one-page medical center referral form at wexnermedical.osu.edu/referralform and fax your referral to **614-293-1456**.

Faculty



Nahush Mokadam, MD*
Director, Division of Cardiac Surgery
Program Director, Cardiothoracic Surgery Integrated Residency Program

Clinical Faculty

Adult Cardiac Surgery

John Bozinovski, MD
Asvin Ganapathi, MD
Matthew Henn, MD
Bryan Whitson, MD, PhD

Pediatric and Congenital Cardiac Surgery

Sergio Carrillo, MD
Mark Galantowicz, MD*
Chief of Congenital Cardiac Surgery
Patrick McConnell, MD

Research Faculty

Mona El Refaey, PhD, MS
Renzhi Han, PhD
Jae-Kyun Ko, PhD
Pei-Hui Lin, PhD
Prabhakara Nagareddy, PhD
Lufang Zhou, PhD
Hua Zhu, PhD
Vice Chair, Basic and Translational Research

* Castle Connolly 2022 Top Doctor

Division of Colon and Rectal Surgery



Innovative multidisciplinary colorectal cancer program
Hereditary colorectal cancer specialists
Integrative Pelvic Floor Center

The Division of Colon and Rectal Surgery at The Ohio State University Wexner Medical Center is recognized for our patient care related to diseases and cancer of the colon, rectum and anus. We have earned a procedure rating of “high performing” for colon cancer surgery from *U.S. News & World Report*.

Every surgeon within the division is dedicated to practicing within their specific area of expertise. This intense dedication has yielded a high volume of cases and increased our experience levels with even the most unusual and complex surgical cases within our specialties.

Primary Programs

- **Colorectal Cancer** — We’re internationally recognized specialists in the prevention, diagnosis and treatment of colorectal cancers. We work together across several medical disciplines to develop individualized treatment plans that target each patient’s biologically unique malignancy. The division also includes specialists with expertise in the diagnosis and management of genetic-based hereditary colorectal cancer syndromes and is a national referral center for these patients.
- **Inflammatory Bowel Disease** — A world-class multidisciplinary inflammatory bowel disease (IBD) treatment center, with one of the highest volumes in the region. Our surgeons are part of the multidisciplinary team for IBD, creating individualized surgical treatment plans for each patient to ensure the best outcomes possible.

- **Pelvic Floor Disorders** — This multidisciplinary clinic is located at our Outpatient Care New Albany location and provides comprehensive testing and evaluation and a range of treatment options for men and women diagnosed with a variety of pelvic floor disorders.
- **Minimally Invasive Surgery** — Our program offers robotic and laparoscopic surgery for colorectal diseases, including complex procedures such as colectomy, low anterior resection and creation of ileal J pouches. We also offer minimally invasive transanal techniques that allow resection of benign and early-stage malignant rectal lesions that can’t be managed colonoscopically. These techniques offer patients the advantages of a shorter hospital stay, less blood loss, reduced pain and quicker recovery.
- **Colonoscopy** — Our surgeons are committed to delivering the best care possible for our patients by performing colonoscopies for pre- and post-operative patients ourselves in one of our endoscopy suites, allowing for continuity of care.
- **Anal Cancer Screening** — This is the first formal program in Ohio and one of a few in the country. Our goal is to improve the prevention, early diagnosis and treatment of anal cancer, which has increased at an alarming rate, particularly among the often-underserved population of HIV-positive gay men.
- **Colorectal Transitional Care** — This collaborative effort between the Ohio State Wexner Medical Center and Nationwide Children’s Hospital helps pediatric patients take ownership of their care at a young age and eventually transition to the adult care setting.

Referral Information

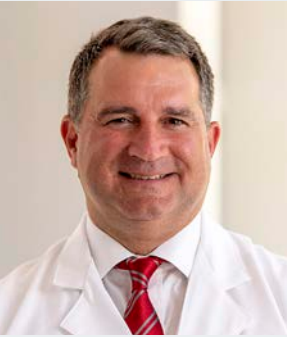
The Division of Colon and Rectal Surgery offers comprehensive surgical programs for the treatment of a wide range of colon and rectal conditions, such as:

- Colon and rectal cancer, including primary, recurrent and metastatic cancers
- Inflammatory bowel disease
- Pelvic floor disorders
- Benign colorectal disease
- Anorectal disease



To refer, please call the Division of Colon and Rectal Surgery at **614-293-3230**.
You may also fill out the one-page medical center referral form at wexnermedical.osu.edu/referralform and fax your referral to **614-293-1456**.

Faculty



Matthew Kalady, MD*
Director, Division of Colon and Rectal Surgery

Clinical Faculty

- Mark Arnold, MD*
Lisa Cunningham, MD
Alessandra Gasior, DO
Alan Harzman, MD*
Emily Huang, MD, MEd*
Syed Husain, MBBS
Amber Traugott, MD* **

* Castle Connolly 2022 Top Doctor
** Castle Connolly 2022 Exceptional Women in Medicine

Division of General and Gastrointestinal Surgery



Bariatric surgery program contributing to **fastest-growing robotic surgery** space in the country

First in the country to offer **multidisciplinary Abdominal Core Health** elective for senior residents

Ohio State’s Gastroenterology and GI Surgery specialty achieved **U.S. News & World Report top 50 ranking**



The Ohio State University Wexner Medical Center has been recognized as “high performing” in gastroenterology and GI surgery by *U.S. News & World Report*. Our Division of General and Gastrointestinal Surgery is a pioneer in minimally invasive surgery, with a high volume of foregut surgery, bariatric surgery, advanced therapeutic endoscopy, gallbladder surgery, hernia repair and complex abdominal wall reconstruction.

Primary Programs

- **Comprehensive Weight Management and Metabolic Bariatric Surgery** — The Ohio State Wexner Medical Center is a Bariatric Surgery Center of Excellence, performing more than 500 primary and revisional operations annually, which now includes robotic bariatric surgery. Telehealth appointments are available.
- **Center for Abdominal Core Health** — Advancing patient care through programs such as complex abdominal wall reconstruction, monthly complex hernia conferences, a robotic hernia program and a comprehensive abdominal core surgery rehabilitation protocol. Telehealth and next-day appointments available.
- **Comprehensive Esophageal Health Center** — Now open at Ohio State Outpatient Care New Albany, the Ohio State Comprehensive Esophageal Health Center can provide your patients access to the latest innovative treatment techniques and technology, all delivered by a collaborative team of gastroenterologists, GI surgeons, dietitians, physical therapists, counselors and other specialists. Telehealth and next day appointments available.

Referral Information

The surgeons in the Division of General and Gastrointestinal Surgery accept referrals for all patients with general surgical needs, including:

- Bariatric surgery
- Esophageal/foregut disease
- Gallbladder surgery
- Hernia repair
- Gastrointestinal surgery
- Endoscopy, including endoscopic retrograde cholangiopancreatography (ERCP)



To refer, please call the Division of General and Gastrointestinal Surgery at **614-293-3230** or Bariatric Surgery at **614-366-6675**.

You may also fill out the one-page medical center referral form at **wexnermedical.osu.edu/referralform** and fax your referral to **614-293-1456**.

Faculty



Benjamin Poulouse, MD, MPH*
Director, Division of General and Gastrointestinal Surgery

Clinical Faculty

- Stacy Brethauer, MD, MBA
- Courtney Collins, MD, MS
- Kelly Haisley, MD
- Michael Meara, MD, MBA
- Vimal Narula, MD
- Bradley Needleman, MD*
- Sabrena Noria, MD, PhD
- Kyle Perry, MD, MBA
- David Renton, MD

Research Faculty

- Daniel Gallego-Perez, PhD

** Castle Connolly 2022 Top Doctor*

Division of Pediatric Surgery



New clinical programs in **pediatric solid organ transplantation** and **fetal surgery**
51 national trainee research awards since 2012
More than 150 publications last year

The Division of Pediatric Surgery is one of the largest and most diverse divisions of its kind, maintaining active clinical programs in general pediatric surgery, minimally invasive surgery, robotic surgery, surgical oncology, surgical endocrinology, trauma, burns, chest wall deformities, bariatric surgery, inflammatory bowel disease, hepatobiliary surgery, neuromodulation, colorectal surgery, transplantation and fetal surgery.

Each member of the division brings individual strengths and talents and is recognized for expertise in clinical care, research and education. Our program trains the next generation of pediatric surgeons through our highly desired training programs in pediatric surgery, surgical critical care, minimally invasive surgery, bariatric surgery and pediatric surgical research.

Primary Programs

- **Pediatric Minimally Invasive and Robotic Surgery** — Our surgeons offer a wide variety of pediatric surgical procedures performed through tiny incisions to treat both common and complex pediatric conditions in children of all ages, including newborns. In addition, we have the busiest robotic surgery program of any children's hospital in the United States. We're the only center offering robotic bariatric weight loss procedures to adolescents.
- **Pediatric Oncology and Endocrinology** — Our surgeons work side-by-side with our pediatric oncologists and endocrinologists to offer the most comprehensive oncology and endocrinology procedures available.
- **Pediatric Trauma and Burn** — We're one of the few children's hospitals in the country verified as both a Level I Trauma Program by the American College of Surgeons and a Burn Center by the American Burn Association.
- **Pediatric Transplantation and Fetal Surgery** — Our surgeons offer all aspects of solid organ transplantation. In addition, we're one of only a few centers in the world to offer total pancreatectomy with islet auto transplantation (TPIAT) for patients with chronic abdominal pain due to intractable pancreatitis. Our Fetal Surgery program is now established, offering comprehensive care to patients even before their birth.

Referral Information

The surgeons in the Division of Pediatric Surgery accept referrals for patients with an extensive range of conditions, some of which include:

- | | |
|---|---|
| • Bariatric surgery | • Intestinal diseases (intestinal dysmotility, intestinal failure, inflammatory bowel disease, Hirschsprung disease, anorectal malformations) |
| • Burns | • Pediatric cancers |
| • Chest wall deformity correction | • Pediatric thyroid and parathyroid conditions |
| • Congenital anomalies of the trachea, esophagus, diaphragm, intestines | • Pigmented lesions |
| • Fetal surgery | • Trauma |
| • Gallbladder disease | • Wounds |
| • Gastroesophageal reflux disease | |
| • Hernias (inguinal, umbilical, hiatal) | |



To refer, call the Division of Pediatric Surgery at **614-722-3900**.

Faculty



Gail Besner, MD* **
Director, Division of Pediatric Surgery

Clinical Faculty

- Jennifer Aldrink, MD* **
Karen Diefenbach, MD
Renata Fabia, MD, PhD* **
Jonathan Groner, MD*
Ihab Halaweish, MD
Brian Kenney, MD, MPH*
Marc Michalsky, MD, MBA*
Peter Minneci, MD, MHSC
Jaimie Nathan, MD*
Benedict Nwomeh, MD, MPH*
Oluyinka Olutoye, MD, PhD*
Dana Schwartz, MD
Rajan Thakkar, MD*
Richard Wood, MD

Research Faculty

- Christopher Breuer, MD
David Brigstock, PhD

* Castle Connolly 2022 Top Doctor

** Castle Connolly 2022 Exceptional Women in Medicine

Division of Surgical Oncology



Among the **three-busiest robotic** hepatopancreatobiliary and adrenal programs in the Midwest

Among the **highest-volume** hyperthermic intraperitoneal chemotherapy centers nationally

One of three original Society of Surgical Oncology fellowships started in 1977

The Division of Surgical Oncology provides excellence in clinical cancer care; educates medical students, residents and fellows; and conducts internationally recognized clinical and basic research. Our surgical specialists and subspecialists offer the most current research-based surgical treatment techniques — from complex open surgery to minimally invasive robotic procedures — to provide individualized care in conjunction with multidisciplinary teams of cancer experts as part of The Ohio State University Comprehensive Cancer Center – Arthur G. James Cancer Hospital and Richard J. Solove Research Institute (OSUCCC – James).

The OSUCCC – James is a National Cancer Institute (NCI)-designated comprehensive cancer center that’s been ranked among America’s Best Hospitals for cancer care for 24 years by *U.S. News & World Report*. In 2020, the OSUCCC – James received the NCI’s highest rating, “Exceptional,” for the third consecutive five-year review period and earned an estimated \$33 million NCI support grant.

Primary Programs

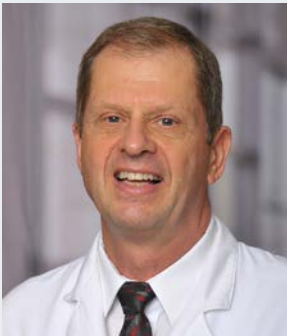
- **Breast** — At the Stefanie Spielman Comprehensive Breast Center, patients can access a full continuum of care — prevention, screening, treatment, survivorship — in one location with state-of-the-art technology. Our surgeons evaluate patients at high risk for cancer and provide specialized breast cancer treatment. We’re also nationally recognized for our research in many fields, including health equity, clinical trials and novel approaches to care.
- **Endocrine** — Our endocrine surgical specialists — who focus on diseases of the thyroid, parathyroid and adrenal glands, as well as on neuroendocrine tumors — can perform complex minimally invasive and robot-assisted procedures. Our new Comprehensive Adrenal Program offers treatment and clinical trials for a range of adrenal disorders. The Ohio State Wexner Medical Center’s thyroid cancer group has been well-funded by the NIH for many years.
- **Gastrointestinal** — Internationally recognized experts in the prevention, diagnosis and treatment of esophageal, hepatobiliary, pancreatic, stomach and colorectal malignancies, our surgeons have extensive experience in complex minimally invasive abdominal operations. Our team develops individualized treatment plans that target each patient’s unique cancer, including regional therapies for metastatic cancer. We also focus on methods to improve patient outcomes through innovation, including telehealth for cross-institutional collaboration.
- **Melanoma/Sarcoma** — Patients with these cancers benefit from surgical expertise spanning the full spectrum of skin and soft tissue malignancies. At the Skin and Melanoma Center, patients with melanoma, Merkel cell carcinoma, squamous cell carcinoma, basal cell carcinoma or other skin tumors have individualized treatment options, including intralesional therapies, robotic resection and clinical trials. At our Soft Tissue Sarcoma Center, surgeon-scientists are advancing standards of care for patients with primary and recurrent tumors.

Referral Information



To refer a patient or schedule an appointment with one of our OSUCCC – James cancer experts, complete the referral form at go.osu.edu/patientreferral or call: **614-293-7171**
614-293-4040 (Breast)
Fax: **614-293-3277**

Faculty



William Carson, MD*
Interim Director, Division of Surgical Oncology

Clinical Faculty

- Breast**
- Doreen Agnese, MD* **
Valerie Grignol, MD* **
Samilia Obeng-Gyasi, MD, MPH
Bridget Oppong, MD*
Ko Un “Clara” Park, MD*
Stephen Povoski, MD*
- Endocrine**
- Priya Dedhia, MD, PhD
Barbra Miller, MD* **
John Phay, MD
- Gastrointestinal**
- Jordan Cloyd, MD
Mary Dillhoff, MD
Aslam Ejaz, MD, MPH
Alex Kim, MD, PhD
Andrei Manilchuk, MD
Timothy Pawlik, MD, PhD, MBA*
- Melanoma/Sarcoma**
- Joal Beane, MD
Carlo Contreras, MD
Valerie Grignol, MD* **
Raphael Pollock, MD, PhD*

Research Faculty

- Andrew Gunderson, PhD
Zhiwei Hu, MD, PhD
- * Castle Connolly 2022 Top Doctor*
- ** Castle Connolly 2022 Exceptional Women in Medicine*

Division of Thoracic Surgery



Top 30 U.S. News & World Report lung surgery program

Among the **highest annual thoracic surgery volume** nationally, with over 440 cases

Dr. Robert Merritt performed his 500th robotic lobectomy lung resection in 2022

Dedicated to providing multidisciplinary care for malignant and benign diseases of the chest, the Ohio State Wexner Medical Center’s Division of Thoracic Surgery earned a distinguished three-star rating from the Society of Thoracic Surgeons for both lobectomy and esophagectomy, which denotes the highest category of quality. This places our division among the elite for general thoracic surgery in the United States and Canada. The Ohio State Wexner Medical Center has earned a procedure rating of “high performing” for lung cancer surgery from *U.S. News & World Report*.

Primary Programs

- **Robotic Surgery** — Among the highest volume thoracic robotic surgery programs in the United States with more than 400 robotic surgical procedures performed in FY2022.
- **Minimally Invasive Thymectomy for Myasthenia Gravis** — A multidisciplinary program formed with the Department of Neurology.
- **Minimally Invasive Esophagectomy** — A combined program of minimally invasive surgery, GI medicine and oncology, with more than 300 procedures completed from 2014 to 2022.
- **Lung Volume Reduction Surgery** — With 12 cases performed in FY2022, the Ohio State Wexner Medical Center has performed more lung volume reduction surgeries than any medical center in the country and is the only hospital in central Ohio offering the procedure.
- **Thoracic Surgery** — Our surgeons collaborate with the lung and gastrointestinal disease sites at The Ohio State University Comprehensive Cancer Center – Arthur G. James Cancer Hospital and Richard J. Solove Research Institute and share many clinical trials with medical oncology, as well as with radiation oncology through Cancer and Leukemia Group B, Radiation Therapy Oncology Group and American College of Surgeons Oncology Group.

Referral Information

Surgeons in the Division of Thoracic Surgery accept referrals and offer advanced diagnostic testing and treatment procedures for patients with an extensive range of conditions, including:

- | | |
|---|---------------------|
| • Achalasia | • Hiatal hernia |
| • Barrett’s esophagus | • Lung cancer |
| • Carcinoid tumor | • Myasthenia gravis |
| • Esophageal cancer | • Thymoma |
| • Gastroesophageal reflux disease (heartburn) | |



To refer, please call the Division of Thoracic Surgery at **614-293-9059**.

You may also fill out the one-page medical center referral form at wexnermedical.osu.edu/referralform and fax your referral to **614-293-1456**.

Faculty



Robert Merritt, MD*
Director, Division of Thoracic Surgery
James Medical Director of Inpatient Services

Clinical Faculty

Desmond D’Souza, MD
Peter Kneuert, MD

** Castle Connolly 2022 Top Doctor*

Division of Transplantation Surgery



Top 10 transplant center by volume in the United States in 2021 (No. 7 for kidney transplants)

Living donor liver and kidney programs

More than 11,500 transplants performed since our first kidney transplant in 1967

The Ohio State University Wexner Medical Center has performed more than 11,500 solid organ transplants since our first transplant, a kidney, 55 years ago. Fewer than 10% of adult transplant centers in the United States have achieved this milestone.

As central Ohio’s only adult comprehensive transplant center, the Ohio State Wexner Medical Center performs approximately 600 transplants each year and is ranked No. 7 by volume in the U.S. in 2021 with excellent patient outcomes.

Primary Programs

- **Kidney Transplant** — With one of the largest programs in the country, the Ohio State Wexner Medical Center utilizes living donor exchange and chains to aggressively transplant many patients who might otherwise be ineligible due to incompatibility with their donor.
- **Living Donor Liver** — The Ohio State Wexner Medical Center is one of only two locations in Ohio able to perform adult living liver donor transplants.
- **Liver Cancer** — One of only 53 comprehensive cancer centers in the nation as designated by the National Cancer Institute, the Ohio State Wexner Medical Center offers treatment for hepatocellular carcinoma and prepares these patients for liver transplantation.
- **Outreach Clinics** — Our clinics in Lima and Cincinnati, part of the Healthy State Alliance with Mercy Health, extend patient access to transplant care outside of central Ohio.

Referral Information

The Division of Transplantation Surgery coordinates patient care with a team of specialty-trained transplant experts, including transplant physicians and surgeons, organ recovery specialists, transplant coordinators, advanced practice providers, social workers, psychologists, dietitians and transplant pharmacists. As an academic health center, we have access to the latest treatments and clinical trials of new immunosuppressive drugs and anti-rejection therapies.



For more information or to refer a patient for a transplant consultation, visit wexnermedical.osu.edu/trxreferral or call 614-293-4100.

Faculty



Kenneth Washburn, MD
Director, Division of Transplantation Surgery
Executive Director, Comprehensive Transplant Center

Clinical Faculty

- Musab Alebrahim, MD
Sylvester Black, MD, PhD*
Ginny Bumgardner, MD, PhD
Ashley Limkemmann, MD, MPH
Amer Rajab, MD, PhD
Austin Schenk, MD, PhD
Navdeep Singh, MBBS

** Castle Connolly 2022 Top Doctor*

Division of Trauma, Critical Care and Burn



**Level I trauma center and
ABA-verified burn center at University Hospital**
Level III trauma center at East Hospital

Formed in 2006, the Division of Trauma, Critical Care and Burn provides surgical care for multiple trauma, burns, urgent and emergent general surgery conditions and surgical critical care. Clinical, translational and basic science research efforts of our clinical scientists and dedicated basic science researchers investigate sepsis, trauma and surgical emergencies.

Primary Programs

- **Level I Trauma Center at University Hospital** — An American College of Surgeons designation that recognizes our role as a regional resource to care for the most critically ill and injured patients.
- **Level III Trauma Center at Ohio State East Hospital** — The same experienced clinical team that serves the University Hospital Level I Trauma Center provides critical access, stabilization of patients and definitive trauma care to patients with serious traumatic injuries.

- **Acute Care Surgery** — Urgent and emergent general surgical care is available at both University Hospital and East Hospital for a wide variety of surgical disease states, including necrotizing soft tissue infections, gastrointestinal bleeding, bowel perforation, enterocutaneous fistulae, appendicitis, acute pancreatitis, cholecystitis and complications after cardiovascular or cancer surgery. This program currently supports two American Association for the Surgery of Trauma-accredited fellowships for advanced training.
- **Adult Burn Center** — The only adult burn center in central Ohio verified by the American College of Surgeons and the American Burn Association, with an inpatient burn rehabilitation program ranked among the best in the country by *U.S. News & World Report*.
- **Surgical Critical Care** — Our team employs advanced lifesaving technologies to treat more than 5,000 critically ill and injured patients each year across four ICU locations. The service supports six American Council for Graduate Medical Education-accredited critical care fellows in partnership with the Department of Anesthesiology.

Referral Information

Trauma, emergency and surgical critical care referrals

Our surgeons address the full scope of surgical critical care, trauma, burn and emergency general surgery with a special focus on complex surgical patients and those with comorbid conditions. To have a patient transferred to our care, call the Transfer Center at 614-293-4444 or 800-824-8236.

Burn referrals

We offer both inpatient and outpatient services, including:

- Advanced dressing options to minimize pain, scarring and other complications
- Wound care and complex wound management
- Treatment for all burns, from small to large, with special emphasis on:
 - Burns to face, hands, feet, genitalia, perineum and joints
 - Electrical burns and lightning strikes
 - Chemical burns
 - Burns in patients with comorbid conditions
 - Any third-degree burn



For referral to Ohio State's Comprehensive Burn Center, please call **614-293-BURN (2876)**.

Faculty



Carrie Sims, MD, PhD
Director, Division of Trauma, Critical Care and Burn

Clinical Faculty

- Nicole Bernal, MD
Daniel Eiferman, MD*
Richard Johnson, DO
Jennifer Knight Davis, MD
David Lindsey, MD
John Loftus, MD
Sara Scarlet, MD, MPH
Brett Tracy, MD
Carrie Valdez, MD
Wendy Wahl, MD
Jonathan Wisler, MD
Andrew Young, MD

* Castle Connolly 2022 Top Doctor

Division of Vascular Diseases and Surgery



Only practice in Ohio performing **four-vessel branch chimney thoracoabdominal aortic aneurysm repair**

11 active clinical trials, including **TAMBE trial**

New **integrated** residency options



The Division of Vascular Diseases and Surgery specializes in the comprehensive care of diseases of the arteries, veins and lymphatic system. Each year, our division has more than 8,800 outpatient visits and performs more than 1,800 endovascular cases and major open vascular surgeries. We specialize in complete care for any vascular condition, from a patient’s initial visit to diagnostic testing, interventional or minimally invasive endovascular treatments (such as stenting and angioplasty), open surgical treatments (such as bypass surgery) and, most importantly, ongoing, lifelong post-treatment care. We’ve earned a procedure rating of “high performing” for aortic valve surgery from *U.S. News & World Report*.

Primary Programs

- **Aortic Center** — Combines the expertise of highly skilled physicians, such as vascular surgeons, cardiac surgeons and cardiologists, to provide a tailored approach to each patient’s care. This includes conventional surgery and new, minimally invasive procedures. In addition to scheduled aortic procedures, the Aortic Center also provides treatment for emergent and life-threatening aneurysms.
- **Limb Preservation** — Part of the Comprehensive Wound Center, offering a multidisciplinary approach and advanced techniques to treat patients with limb-threatening conditions.
- **Ohio State Total Vein Care** — Outpatient treatment from vascular surgeons with more than 30 years’ experience in the treatment of venous disease.
- **Vascular Ultrasound** — Expanded inpatient and outpatient services with new same-day reporting with VascuPro vascular lab reporting software.

Referral Information

The physicians in the Ohio State Division of Vascular Diseases and Surgery accept referrals and offer an extensive range of advanced procedures for patients with a variety of issues, including:

- Emergent and life-threatening abdominal and thoracic aneurysms
- Arterial diseases
- Lymphatic system diseases
- Venous diseases
- Carotid artery blockage
- Risk of amputation due to vascular diseases, such as peripheral arterial disease and diabetes
- Needed creation or repair of arteriovenous fistula for dialysis
- Required kidney or intestinal artery bypasses or stents



To refer, please call the Division of Vascular Diseases and Surgery at **614-293-8536**.

You may also fill out the one-page medical center referral form at wexnermedical.osu.edu/referralform and fax your referral to **614-293-1456**.

Faculty



Timur Sarac, MD
Director, Division of Vascular Diseases and Surgery
Director, Aortic Center
Program Director, Vascular Surgery Resident Education Programs

Clinical Faculty

- Michael Go, MD*
- Mounir Haurani, MD
- Kristine Orion, MD
- Kate Peng, MD
- Jean Starr, MD* **
- Xiaoyi Teng, MD
- Bryan Tillman, MD, PhD*

* Castle Connolly 2022 Top Doctor

** Castle Connolly 2022 Exceptional Women in Medicine

The power of philanthropy



The Ohio State Department of Surgery has concluded another extremely successful annual philanthropic drive, and we’re humbled by the incredible generosity of our corporate and individual donors. We’re motivated by their enthusiasm and pledge to do everything possible to maximize their donations to improve patient lives, conduct transformative research and train the next generation of Buckeye surgeons.

Remarkable results

- FY2022 goal to raise \$710,000 in donations for the Department of Surgery
- **Every surgical division achieved or surpassed its FY2022 philanthropy goal, exceeding our target and raising \$4.28 million**

Staying connected

While the pandemic still presented us with challenges this past year, we continued to cultivate relationships with our donors by providing them with Surgery Updates with Dr. Pawlik to highlight the exciting work happening in the Department of Surgery.

These video updates included:

- The importance of the new 26-story University Hospital project, by Carrie Sims, MD, PhD, and Wendy Wahl, MD.
- Bradley Needleman, MD; Chris Ellison, MD, the Robert M. Zollinger Professor of Surgery Emeritus; and Mary Pat Borgess, MD, sharing why they donate and the importance of endowed professorships.
- Our department’s efforts in keeping diversity, equity and inclusion at the forefront of patient care, featuring our department’s vice chair of DEI, Sabrena Noria, MD; The Ohio State University College of Medicine finance manager, Booker Wooten; general surgery resident, Amblessed Onuma, MD; and critical care surgeon, Brett Tracy, MD.

Thanks to donor generosity, we hosted a Department of Surgery Showcase, a virtual event that was attended by both donors and patients. Presentations included:

- Carrie Sims, MD, PhD, sharing the importance of the Division of Trauma, Critical Care and Burn and its impact on central Ohio.
- Benjamin Poulouse, MD, talking about the Center for Abdominal Core Health and the challenges of opioid use in surgery patients.
- Bradley Needleman, MD, demonstrating the da Vinci robot and discussing the benefits of minimally invasive surgery.

If you’d like to explore our programs or make a donation to advance surgical programs and research, please visit medicine.osu.edu/surgerygiving.

New professorship honors Adenil Day

Thanks to a generous donation from the Brighter Days Foundation, we’ve established the **Adenil Day Designated Professorship** at The Ohio State University Comprehensive Cancer Center – Arthur G. James Cancer Hospital and Richard J. Solove Research Institute (OSUCCC – James).

The inaugural professorship has been awarded to Robert Merritt, MD, director of the Division of Thoracic Surgery and clinical professor of Surgery. A designated professorship such as this is among the highest honors bestowed upon a physician.

Adenil Day was the mother of PGA golfer Jason Day. She died in March of 2022 after a five-year battle with lung cancer. Her family said they established the professorship with her in mind, saying they wanted “to honor and celebrate her as the matriarch of our family and the foundation, as well as to help carry on the lifesaving research and care in thoracic surgery and oncology.”

The professorship aligns with one of the foundation’s missions, which is to continue advancing both thoracic oncology research and thoracic surgery at the OSUCCC – James. The foundation’s hope is that this professorship and paying honor to Adenil will move us one step closer to a cancer-free world.

Columbus Unexpected

We know you’re interested in life beyond the hospital walls — and we’re proud to say Columbus offers the best of big-city culture with small-town affability.

Why make your home in Columbus?



“A youthful, entrepreneurial energy has fueled a lot of changes in Ohio’s capital, a fashion design hub (you read that right) brimming with creative restaurants, craft breweries, distilleries and small-batch coffee roasters.” – Chicago Tribune



“Columbus is one of the fastest-growing cities in the Midwest, and I believe that this will be a smart place to spend five to seven years in training as it continues to expand and develop with the wide array of resources it provides.”

– incoming Ohio State Department of Surgery resident

It’s affordable

A dollar goes further here. The cost of living is 8% below the national average, and our average rent and home prices will leave you pleasantly surprised. As of 2022, the median monthly rent was \$1,054 for one bedroom, and the median home price was \$345,008. Columbus’ housing expenses are 13% lower than the national average and the utility prices are 10% lower than the national average. You don’t have to live far from the city’s center to get a great deal, either — our commutes are actually shorter than the U.S. average.

It’s smart

Home to an expanding number of startup businesses in addition to five Fortune 500 and 16 Fortune 1000 companies, Columbus harbors a spirit of innovation that attracts the best and brightest. We also produce the best and brightest at our top-ranked public and private schools. Learn more by searching Ohio’s School Report Cards.

It’s thriving

One of the fastest-growing cities in the country, Columbus is the 14th largest city in the U.S. and the second largest in the Midwest behind Chicago. We’re home to an impressive list of employers and celebrated for our job creation. Oh, and we know how to have fun: Our arts and entertainment options will keep your calendar fully booked while our acclaimed food scene will satisfy your cravings from sushi to schnitzel. If you’re into sports, we’ve got professional hockey and soccer teams as well as a college football program you may have heard about.

It’s welcoming

Columbus is a city that invites and embraces cultural and economic diversity. There are 134 nations represented here, and our residents speak 109 different languages. We also have a reputation for being accepting, welcoming and LGBTQ+ friendly.

For more information about Columbus, please visit wexnermedical.osu.edu/cols.

“If there’s one thing we know about the Midwest now, it’s to stop expecting certain things from the Midwest, and certainly not Ohio’s capital city, which has a nearly Sun Belt-esque buoyancy about it these days, as it welcomes all-comers, from all over the world, into the ever-growing fold.” – Food & Wine

Why are diversity, equity and inclusion important?

The Department of Surgery is committed to providing our patients with the best possible care. To accomplish this, we must cultivate an environment where faculty, staff and patients feel like they belong. This can only be achieved by prioritizing programs that integrate diversity, equity and inclusion (DEI) into medical education, clinical care, research and community engagement.

While there are many ways to define DEI, at its core:

- Diversity** represents our differences that make us unique, including race, gender, religion, sexual orientation, ethnicity, nationality, socioeconomic status, language, (dis)ability, age, religious commitment, political perspective, veteran status and more. However, our focus is less about “quantifying” these differences and more about promoting efforts aimed at understanding, accepting and valuing these differences.
- Equity** relates to creating fair access, opportunity and advancement for everyone in the department — establishing a level playing field.
- Inclusion** is the extent to which people in our department feel valued and respected for their uniqueness.

Action with intention

Led by our DEI vice chair, Sabrena Noria, MD, PhD, and a committee of faculty, residents and staff, our goal is to integrate DEI into the fabric of the department. Our emphasis is on being purposeful with our actions when incorporating DEI into community outreach, medical education, clinical care and research, the four pillars of patient care.

Examples of our efforts include:

- Ongoing evaluation of both the residency and fellowship selection processes
- Ongoing review and adjustment of the onboarding experience for faculty and staff
- Increasing research opportunities for students who are underrepresented in medicine
- Recruiting underrepresented populations for clinical trials and other research
- Implicit bias and bystander training for faculty, staff and learners
- Integrating DEI-related concepts into our grand rounds
- DEI-awareness events focused on timely issues, such as LGBTQIA rights, racism in the prison system and gender allyship
- Formal department participation in community events and outreach programs

Ultimately, our vision is to prioritize initiatives focused on advancing cultural competency with cultural humility to create an environment that fosters our ability to care for our patients and each other.

To learn more about diversity, equity and inclusion in the Department of Surgery, visit medicine.osu.edu/dosdei



Referring a patient? It’s never been easier.

Our referral team will provide you with the personalized help both you and your patients require.

Referral form: wexnermedical.osu.edu/referralform

Referral fax: **614-293-1456**

If you have questions during any part of the referral process or about the status of your referral, please call our referral specialists at 614-293-4326 or contact the division directly:

- Bariatric Surgery: 614-366-6675
- Cardiac Surgery: 614-293-5502
- Colon and Rectal Surgery: 614-293-3230
- General and Gastrointestinal Surgery: 614-293-3230
- Pediatric Surgery: 614-722-3900*
- Surgical Oncology: 614-293-7171 | 614-293-4040 (Breast)
- Thoracic Surgery: 614-293-9059
- Transplantation Surgery: 614-293-4100**
- Vascular Diseases and Surgery: 614-293-8536

After we’ve received your referral fax, we’ll contact your patient directly to schedule a convenient time and location for their appointment.

As a referring physician, you’ll receive confirmation of the appointment for your records via mail, fax or Ohio State CareLink.

* Referral information for pediatric surgery can be accessed at nationwidechildrens.org/request-an-appointment.

** To refer a patient for a transplant consultation, visit wexnermedical.osu.edu/trxreferral.



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