



THE OHIO STATE UNIVERSITY WEXNER MEDICAL CENTER

Department of Surgery

YEAR IN REVIEW FY2019



THE OHIO STATE UNIVERSITY
WEXNER MEDICAL CENTER



LETTER FROM THE CHAIR



Advancements in medicine require bold moves and a culture of innovation and discovery. The Department of Surgery at The Ohio State University Wexner Medical Center is committed to providing the clinical care, education and research that can literally transform patient lives.

Our goal is to be one of the nation’s premier academic surgery programs. It’s why we continue to attract and develop a diverse team of talented people committed to patient care in all nine surgical divisions and nine clinical centers within our department. Our investment in robotic surgery has helped us claim the top spot as the nation’s fastest-growing robotic surgery program. We have an intense drive to find the next surgical breakthrough via research and are proud of our sixth-place Blue Ridge ranking among all surgery departments nationally for National Institutes of Health funding. In addition to our innovative research, we have an amazing team of world-class surgeons and top-notch faculty who are leaders of state-of-the art clinical programs training the next generation of skilled surgeons.

Throughout this brochure, you’ll discover our accomplishments during the previous year and learn more about our department’s team. More importantly, I hope you’ll gain insight to our collective energy and determination for excellence. Ohio State is a special place. As department chair, I see examples of “exceptionalism” every day — from small gestures that change the course of a patient’s outlook to truly revolutionary surgical methods that can lead to new care standards beyond our own medical center.

Thank you for taking a few moments to learn more about what we do, and please keep this brochure for reference. Our hope is that we may have an opportunity to work with you in the future. Of course, you’re always welcome to contact me or any of our team members directly as well — we’re always happy to help in any way possible.

GO BUCKS!

*Timothy Pawlik, MD, MPH, MTS, PhD, FACS, FRACS (Hon.)
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 wexnermedical.osu.edu/surgery.



TABLE OF CONTENTS

Letter from the Chair3

Department of Surgery Overview.....6

Department of Surgery Strategic Plan.....7

New Faculty8

Awards and Recognition 10

Education..... 12

Research..... 16

Clinical Care..... 20

Division of Cardiac Surgery 24

Division of Colon and Rectal Surgery 26

Division of General and Gastrointestinal Surgery 28

Division of Pediatric Surgery 30

Division of Surgical Oncology..... 32

Division of Thoracic Surgery 34

Division of Transplantation Surgery 36

Division of Trauma, Critical Care and Burn..... 38

Division of Vascular Diseases and Surgery..... 40

The Power of Philanthropy 42

Columbus Unexpected..... 44

How to Refer..... 46

A DELIBERATE APPROACH FORWARD

Progress does not happen by chance. It requires careful consideration, honest dialogue and clear planning. At Ohio State, we rely on our strategic plans to guide our decisions. Our mission, vision and values are not merely words. They are our blueprint for transformation.

The Department of Surgery’s comprehensive strategic plan is the result of collaboration, engagement and ideas from faculty, staff and leaders across the medical center and university. It includes six key goal areas: talent and culture; research; education; healthcare delivery; healthy communities; 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 will 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

Our Department

The Ohio State Department of Surgery is composed of:

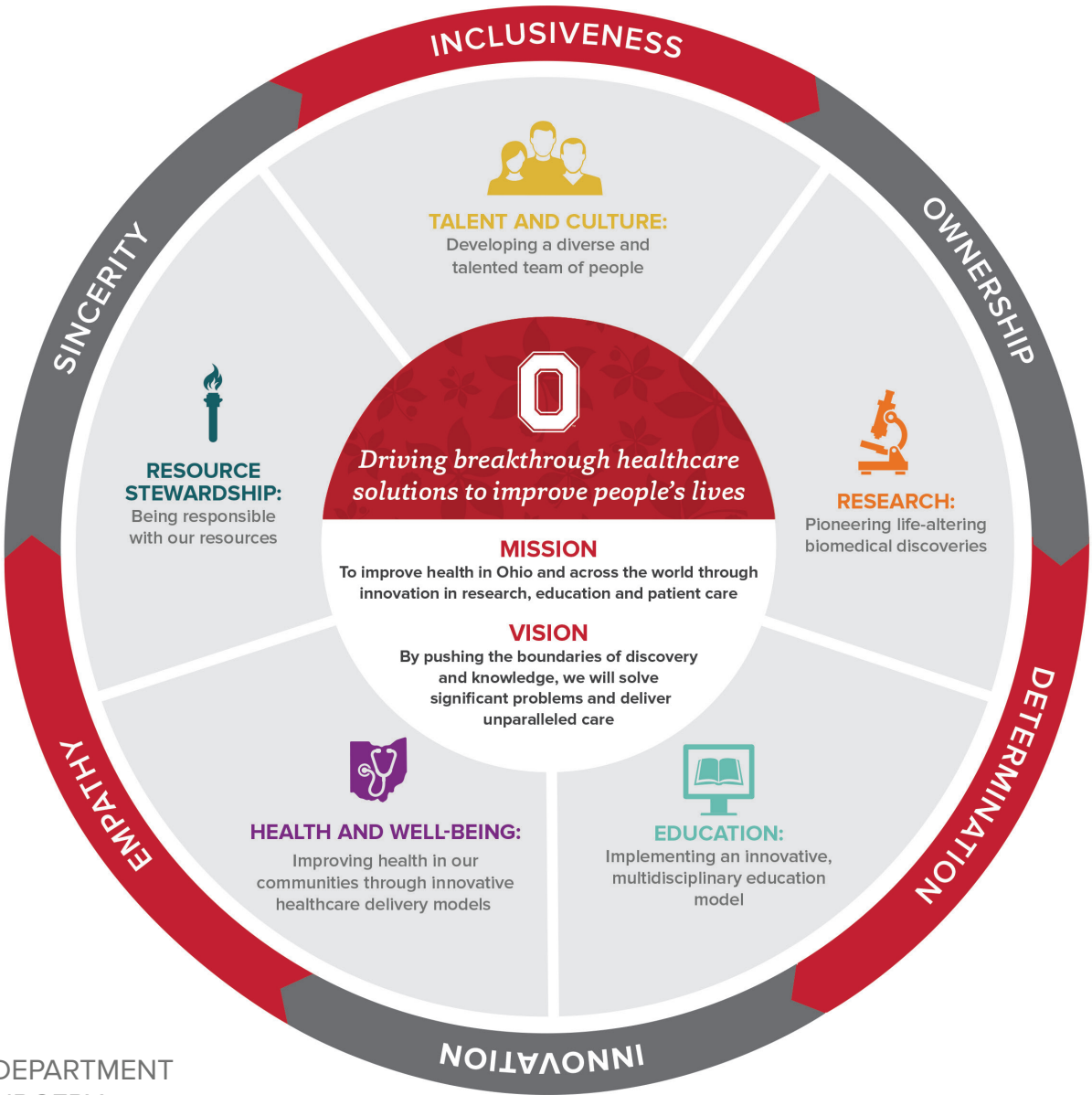
Nine surgical specialty divisions:

- 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

Nine 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 Hernia Center
- Comprehensive Wound Center
- COPPER Laboratory
- Trauma Center

THE OHIO STATE UNIVERSITY WEXNER MEDICAL CENTER STRATEGIC PLAN



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 NIH-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.

RESOURCE STEWARDSHIP

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

HEALTH AND WELL-BEING

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.

A TEAM OF INNOVATORS

A superior team delivers superior results. At Ohio State, we strive to recruit and retain the nation's best surgeons and medical visionaries. Here are the experts who have recently joined our team.

Become part of the surgical team at Ohio State, one of the largest and most diverse academic medical centers in the country. We are continually looking for the best and brightest. See available opportunities at wexnermedical.osu.edu/recruitment.



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

Accomplished surgeon and established researcher with a basic science laboratory focused on mitochondrial dysfunction in late-stage hemorrhagic shock. Dr. Sims has given nearly 50 invited lectures, published 68 articles in peer-reviewed research publications and co-authored 85 abstracts.



Bridget Oppong, MD, FACS
Associate professor, Division of Surgical Oncology

Specializes in advanced breast surgery with research focused on disparities in the breast cancer care continuum, from screening to treatment. Dr. Oppong is also investigating the impact of breast tumor biology and patient characteristics on breast cancer outcomes.



Asvin Ganapathi, MD
Assistant professor, Division of Cardiac Surgery

Clinical focus on adult cardiac surgery and thoracic transplantation. Research interests include cardiac bioengineering, animal models of cardiac research, and variations in cardiac surgery and transplantation care.



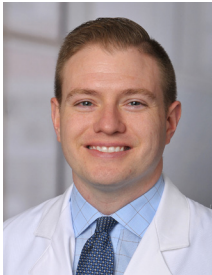
Lisa Cunningham, MD
Assistant professor, Division of Colon and Rectal Surgery

Treats the full spectrum of colon and rectal pathologies, including cancer, inflammatory bowel disease, pelvic floor dysfunction and benign anorectal disease. Research focuses on quality improvement and patient outcomes in colorectal surgery, as well as robotic surgery education and training.



Stacy Brethauer, MD, FACS, FASMBS
Vice chair of Quality and Patient Safety, Department of Surgery; professor, Division of General and Gastrointestinal Surgery

Dr. Brethauer has fulfilled every leadership board position and many committee member positions for the American Society for Metabolic and Bariatric Surgery (ASMBS), the largest national society for his specialty.



Joal Beane, MD
Assistant professor, Division of Surgical Oncology

Clinical focus on melanoma/sarcoma. Research interests span both clinical and basic science arenas with the goal of improving survival in patients with cancer. Dr. Beane is actively seeking ways to expand and improve the efficacy of T-cell-based immunotherapies for the treatment of metastatic cancer.



Prabhakara Nagareddy, PhD
Associate professor, Division of Cardiac Surgery

Research broadly focused on how the so-called cardiovascular "risk factors" actually contribute to cardiovascular disease, with specific examination of the role diabetes, obesity, smoking, rheumatoid arthritis and a high-salt diet play on atherosclerosis and ischemic heart disease.



Hai Huang, PhD
Assistant research professor, Division of Surgical Oncology

Investigating the role of the tumor microenvironment in oncologic disease processes. Other research interests include innate immune and inflammatory responses in liver sterile injury, damage-associated molecular patterns and their pattern-recognition receptors in liver sterile inflammation, innate immunity in the development of hepatocellular carcinoma and the role of hepatic immune responses after preoperative exercise therapy.



Kristine Orion, MD
Director, Quality and Patient Safety; medical director for Vascular Services and associate professor, Division of Vascular Diseases and Surgery

Clinical focus on open and minimally invasive treatment of abdominal aortic, thoracic and thoracoabdominal aortic aneurysms, limb salvage, carotid artery disease and thoracic outlet syndrome. Dr. Orion's research interests include VQI, aortic aneurysms and thoracic outlet syndrome.



Jovan Bozinovski, MD
Associate director, Aortic Center; professor, Division of Cardiac Surgery

Clinical interests include aortic surgery, thoracoabdominal aortic aneurysm surgery and the aortic valve. Dr. Bozinovski has produced more than 30 peer-reviewed articles and is a reviewer for six scientific journals.



Saverio La Francesca, MD
Assistant professor, Division of Cardiac Surgery

A UNOS-qualified heart and lung transplant surgeon and expert in the field of organ procurement, perfusion and preservation. Prior founder and CEO of Orgagen Inc., which manufactures a bioartificial esophagus, as well as president and chief medical officer of Biostage Inc., which develops bioengineered organ implants.



Kelly Haisley, MD
Assistant professor, Division of General and Gastrointestinal Surgery

Specializes in foregut and esophageal diseases and will be an integral part of launching the Comprehensive Esophageal Health Center, a multidisciplinary effort to improve access and care for patients with esophageal diseases. Dr. Haisley's research interests are in education science and surgical health services.



AWARDS AND RECOGNITION

DIVISION OF CARDIAC SURGERY

Jianjie Ma, PhD – NIH Director's New Innovator Award (DP2); appointed to vice chair of Research, Department of Surgery

Bryan Whitson, MD, PhD – Inducted into the Society of Clinical Surgeons; reopened the robotic heart surgery program at the Ohio State Ross Heart Hospital

Peter Lee, MD, PhD, MPH – NASA grant award to fly a suborbital experiment aboard Blue Origin's New Shepard space vehicle

Nahush Mokadam, MD – Inducted into the Surgical Biology Club II; president-elect, Board of Directors, Central Ohio American Heart Association; appointed as feature editor, *The Journal of Thoracic and Cardiovascular Surgery*

DIVISION OF COLON AND RECTAL SURGERY

Alan Harzman, MD – American College of Surgeons' Academy of Master Surgeon Educators

Syed Husain, MBBS – Appointed as colorectal fellowship program director

Amber Traugott, MD – Appointed unit director, Surgery, Understanding Patients with Surgical and Reproductive Needs for the *Lead.Serve.Inspire* Curriculum

DIVISION OF GENERAL AND GASTROINTESTINAL SURGERY

Courtney Collins, MD – Appointed to the *Lead.Serve.Inspire* Part 2 Academic Program Committee

Michael Meara, MD, MBA – Michael J. Walker, MD, Teaching Award; appointed to the *Lead.Serve.Inspire* Part 2 Academic Program Committee; Ohio State University Institute for Teaching and Learning (UITL) Endorsement Award: Faculty FIT Mentor

Daniel Gallego-Perez, PhD – NIH Director's New Innovator Award, \$2.3M

Kyle Perry, MD – Completed his 1,000th operation for GERD/hiatal hernia at The Ohio State University Wexner Medical Center

Benjamin Poulouse, MD, MPH – President, Americas Hernia Society; established the world's first Center for Abdominal Core Health

DIVISION OF PEDIATRIC SURGERY

Gail Besner, MD – American Pediatric Surgical Association Board of Governors and American Academy of Pediatrics Section on Surgery Executive Committee (Chair in 2019/2020)

Benedict Nwomeh, MD, MPH – Denis R. King Teaching Award; Golden Apple Teaching Award; Secretary/Treasurer of American Pediatric Surgery Training Program Directors Association (President in 2019/2020)

Top NIH R01-funded program in the country (10 faculty members with external grant funding)

DIVISION OF SURGICAL ONCOLOGY

Doreen Agnese, MD – Medical co-director of the Stefanie Spielman Comprehensive Breast Center High-Risk Breast Clinic

Jordan Cloyd, MD – Davis Bremer Award

Mary Dillhoff, MD – Department of Surgery, Management of Faculty Leadership Academy

Aslam Ejaz, MD, MPH – Quality officer for Division of Surgical Oncology

William Farrar, MD – CEO of The Ohio State University Comprehensive Cancer Center – Arthur G. James Cancer Hospital and Richard J. Solove Research Institute

Valerie Grignol, MD – Surgical Oncology assistant fellowship program director

Timothy Pawlik, MD, PhD – Honorary member of the Mexican Association of Digestive Surgery

Allan Tsung, MD – Co-director of Microscopy Shared Facility of the James Comprehensive Cancer Center; Surgical Oncology Fellowship Program Director; honorary member of the Mexican Association of Digestive Surgery

DIVISION OF THORACIC SURGERY

Desmond D'Souza, MD – Outstanding Achievement in Patient Service 2018 (in the top 10% of providers nationally for patient satisfaction, December 2018), Hospital Consumer Assessment of Healthcare Providers and Systems

Peter Kneuert, MD – Publications Committee, Association for Academic Surgery

Susan Moffatt-Bruce, MD, PhD, MBA – Exceptional Women in Medicine Award

Robert Merritt, MD – Outstanding Achievement in Patient Satisfaction 2018 (in the top 10% of providers nationally for patient satisfaction, December 2018), Hospital Consumer Assessment of Healthcare Providers and Systems; performed his 100th robotic lobectomy in December 2018; Thoracic Cancer Guideline Advisory Group, American Society of Clinical Oncology (ASCO)

DIVISION OF TRANSPLANTATION SURGERY

Ginny Bumgardner, MD, PhD, FACS – Vice chair, American Society of Transplant Surgeons Foundation

Ashraf El-Hinnawi, MBBS – Associate program director, Surgery Residency Program

Austin Schenk, MD, PhD – American Heart Association Career Development Award (2019); Member of Association for Academic Surgery

Kenneth Washburn, MD – Councilor, American Society of Transplant Surgeons

DIVISION OF TRAUMA, CRITICAL CARE AND BURN

Amalia Cochran, MD – Association for Surgical Education (ASE) Distinguished Master Educator Award; associate member of the American College of Surgeons Academy of Master Surgeons Educators

Heena Santry, MD – Big Ten Academic Alliance Academic Leadership Program Fellows for 2019-2020

Michael Sutherland, MD, FACS – Named associate medical director of Ohio State East Hospital

Daniel Vazquez, MD – Clinical Mastery Excellence Award

DIVISION OF VASCULAR SURGERY

VQI 3-star award for quality (Division Award)

K. Craig Kent, MD – American Board of Surgery chair for 2019-2020

Jean Starr, MD, FACS – Midwestern Vascular president (second woman president)

EDUCATION

FY2019 by the Numbers

Residents: 45

49% male; **51%** female

32% 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

Top 25 General Surgery
Residency program in the nation
on Doximity's 2019 Residency
Navigator

25% currently hold
advanced degrees

98 peer-reviewed publications

83% went on to do a fellowship

Fellows: 17

Number of
ACGME-Accredited
Surgical Residencies: **2**

Number of
Specialty Fellowships: **10**

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

"Every team member is made to feel important, included and not intimidated. Not only does that create a great learning environment, but I think that's also the atmosphere needed for the best patient care." — Apeksha Dave, PGY2 Resident

Want to change medicine? Keep learning.

To be one of the nation's leading academic surgical departments, we must maintain daily focus on education, not only for our surgeons in training, but also for every department member. This goal also requires creative teaching, continual feedback and an awareness of both leadership and learning styles. Ohio State's emphasis on education pays dividends for our residents and fellows, but it also means our patients receive care that constantly pushes boundaries to find the very latest and most effective surgical methods possible. We have a long tradition of training leaders in surgery, and we're extremely proud of our graduates' prominence and success both in community practice and at major academic institutions worldwide.

Residency Program

Ohio State emphasizes three areas of professional growth — ongoing education, hands-on clinical experience and research. This multifaceted approach to learning is used in our general surgery residency as well as in our subspecialty residencies of colorectal surgery, pediatric surgery and the newly added vascular surgery. Ohio State residency experience is enhanced by access to world-class facilities and the latest technology, with general surgery residents benefiting from training time at the Ohio State Wexner Medical Center University Hospital, OSUCCC — James, Ross Heart Hospital, East Hospital and Nationwide Children's Hospital.

New Vascular Surgery Residency Added

Ohio State is now among the few institutions in the nation offering an integrated vascular surgery residency. This newly added five-year program develops competency in the surgical treatment of patients with complicated vascular conditions. Residents are exposed to routine patient care, as well as complicated medical problems, in both inpatient and outpatient settings. Interaction with a multitude of specialties occurs regularly along with grand rounds and didactic conferences. Residents who complete the program are prepared to serve in both academic and clinical care settings.



Research Training Program

Upon completion of their second or third year of clinical training, General Surgery residents interested in pursuing a career in research can enter Ohio State's DOS Research Training Program. To facilitate the transition to a career as a surgeon-scientist investigator and educator in academic medicine, program participants dedicate one to two years, without clinical responsibilities, to research education and training. Based on the individual's area of interest, this includes a mentored research project and completion of an advanced degree such as a Master of Medical Science, which has tracks for

translational, clinical, health services and medical education research; a Master of Public Health; Master of Business Administration; or an alternate Master of Science degree, such as the Master of Science in Anatomy. Residents apply for extramural funding from sources that may include Institutional T32 training grants, The Ohio State University Pelotonia Fellowship Program for cancer research, individual postdoctoral F32 grants, Mentored/PI-funded R01s or diversity supplement awards, medical society awards or the University Fellowship Award. To learn more, visit wexnermedical.osu.edu/departments/surgery/education/residency/rtp.

Global Surgery Expands Resident Perspectives

Ohio State offers a unique global surgery rotation program that features economically diverse destinations to foster a more well-rounded

understanding of how a geographical area's health care is impacted by its community. One available 2018-19 rotation was in Australia, a high-income location that has similar medical practices as the U.S. but offers significant exposure to many international experts who may become important ongoing mentors throughout the participating resident's career. Also possible was a two-week rotation in Ethiopia, where residents could experience first-hand the resourcefulness and creativity often required in lower-income locations. To learn more, visit wexnermedical.osu.edu/departments/surgery/education/residency/global-surgery.

Fellowships

Subspecialty surgical fellowships at Ohio State include advanced therapeutic endoscopy and gastrointestinal surgery, cardiothoracic surgery, colorectal surgery, surgical critical care, abdominal

transplant surgery, pediatric surgery (RRC-approved), pediatric surgical critical care (RRC-approved), surgical oncology, vascular surgery, minimally invasive surgery and bariatrics.

Elective Course Helps Residents Improve Leadership Skills

Ohio State now offers general surgery residents an elective course called LEAD in Surgery (with the acronym standing for Lead. Engage. Accelerate. Drive). "We believe strong leadership is an incredibly important trait for those who want to influence the future of academic medicine," says Mary Dillhoff, MD, co-director of LEAD. "It is not something that should simply be left to chance." Available to PGY 2-5 general surgery and lab residents, the one-year course meets one Sunday per month to teach personal and project management skills as well as effective leadership of others. The small class size of 15 or fewer promotes discussion and input from varied perspectives and different leadership styles. "Our goal is not to create cookie-cutter leaders, but to help each person understand their own leadership qualities and provide ideas for more effective collaboration and team building," says the other course co-director, Daniel Eiferman, MD. To learn more, visit wexnermedical.osu.edu/departments/surgery/education/residency/lead.

OR Coaching Project Accelerates Learning

Ohio State residents can expect feedback within three days of a surgery that is performed as part of our innovative OR Coaching project. As a key element of our residency training program, the coaching is intended to give timely comments and constructive ideas for improvement, ultimately accelerating resident preparedness for independent surgery. This active monitoring of each resident's surgical skills and procedure-specific feedback for chief residents includes observation and evaluation of 12 cases (three each for lap chole, inguinal hernia, ventral hernia and lap colectomy). Following each observed operation, the attending, resident and project leaders E. Christopher Ellison, MD, and Phoenix Chen, PhD, MS, then fill out the same Surgical Entrustable Professional Activities (SEPA) evaluation. Residents have noted how the program has helped them understand the positive impact of even small procedural changes and helped them correct potentially negative habits before they become ingrained.

"There's a history here of recruiting world-renowned surgeons across all divisions, so residents are mentored by experts who are genuinely invested in training the next generation of surgeons."

*— Michelle Nguyen,
2019 Chief Resident*

"Our goal is not to create cookie-cutter leaders, but to help each person understand their own leadership qualities and provide ideas for more effective collaboration and team building."

— Daniel Eiferman, MD

RESEARCH

FY2019 by the Numbers

Total funding: **\$23.1 million**

Active grants: **106**

Total FY2019 NIH funding:
\$14,342,745

Ohio State Surgery

#6

in NIH Funding

from the Blue Ridge Institute
for Medical Research

Principal investigators: **46**

Total number of FY2019
NIH-funded R01, R03, R21, K08,
UM1 and P30 grants: **18**

Total number of FY2019
OSUP Surgery funded R01, R21,
K08, K12 and T32 grants: **21**

Clinical Trials: **278**

Publications: **405**

*Blue Ridge ranking based on federal fiscal year 2018
(Oct. 1, 2017 – Sept. 30, 2018)

An Integrated, Collaborative Model to Support More Breakthroughs

With PhD and MD researchers as integrated members of the Ohio State Department of Surgery, we are able to facilitate more productive collaboration that improves the chances of success when transitioning research findings from bench to bedside.

Rather than relying on research from a disconnected lab, we have a team of active, engaged researchers and clinician-researchers who work together within our own department. This leads to an atmosphere that promotes more interaction and thorough evaluation of actual clinical applications. Our model is further enhanced by the availability of experts in other medical center departments, as well as other academic departments at The Ohio State University, such as engineering or biology.

NATIONAL RANKING

Knowing that the next medical advancement may be just a day away, the Department of Surgery team is passionate about research. Our collective efforts are apparent in our latest Blue Ridge ranking of sixth place among surgery departments nationwide based on National Institutes of Health funding. This is our highest-ever ranking and an improvement from 18th place last year and 25th in 2015.

The collaborative research being pursued by our PhD and MD faculty drive our success. In addition to a robust portfolio of basic science and translational research, The Center for Surgical Health Assessment, Research and Policy (SHARP) provides resources for high-impact, high-quality health services research with a goal of further equitable and cost-effective surgical care.

Active studies from the previous year include:

Jianjie Ma, PhD; R01s for:

- “Hydrogel Encapsulation of a Tissue Repair Protein to Treat Chronic Wounds”
- “Myokine Function of MG53 in Muscle Injury-Repair and Regeneration”
- “Targeting Cell Membrane Repair for Treatment of Acute Kidney Injury”
- “Ca Signaling Cross-Talk From SR to Mitochondria in Heart Muscle”
- “MG53-mediated membrane repair in muscle physiology and disease”

Lian-Wang Guo, PhD; R01s for:

- “Master Epigenetic Regulators and Retinal Degenerative Disease”
- “BET Bromodomain proteins as Novel Epigenetic Targets for prevention of Intimal Hyperplasia after Vascular Surgery”

Renzhi Han, PhD; R01 for:

- “ANO5 in Muscle Health and Disease”

Hua Zhu, PhD; R01 for:

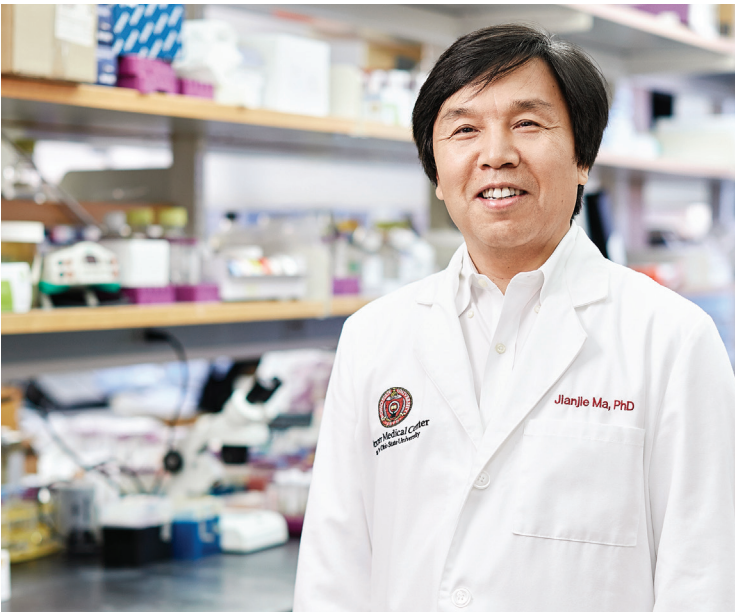
- “Preservation of Limbal Stem Cell Function in Corneal Injury”

Ginny Bumgardner, MD, PhD;

- T32 for “Advanced Research Training in Immunology for Surgery Trainees”
- RO1 for “Investigating a Novel Cellular Therapy to Prevent and Treat Acute Antibody Mediated Kidney Transplant Rejection”

Peter Lee, MD, PhD; K08 for:

- “Tissue Engineered Skeletal Muscle Delivering a Myokine Protein to Treat Volumetric Muscle Loss”



Jianjie Ma, PhD, vice chair of Basic and Translational Research for the Department of Surgery

Mentorship Strengthens Research Process

Jianjie Ma, PhD, has been an accessible mentor and research colleague to both Bryan Whitson, MD, PhD, and Peter Lee, MD, PhD, throughout the development, application and launch of their newest research grants.

Dr. Whitson was awarded both a five-year National Institutes of Health R01 and a three-year Department of Defense grant totaling approximately \$7 million. His research focuses on mitigation of the ischemia reperfusion injury associated with lung transplantation and the use of ex vivo organ perfusion to assess, resuscitate and modify organs prior to transplantation. “Dr. Ma has been such a valuable sounding board for me,” Dr. Whitson says. “Best of all, he works alongside the surgical clinicians in our department, so he’s easily accessible, even for quick questions or advice.”

Dr. Lee’s K08 grant of \$561,000 supports continued studies on his previously developed tissue-engineered skeletal muscle constructs, named bioartificial muscles (BAM). He now hopes to stimulate BAMs to deliver rhMG53, a specific tissue-repair protein, to treat volumetric muscle loss. “I was able to explain my study goals to Dr. Ma,” Dr. Lee says. “His constructive feedback based on years of research experience definitely strengthened my proposal.”

Our publication profile and citation data of department faculty may be viewed in Google Scholar using the keyword OSUSURGERY at the following URL: go.osu.edu/google-scholar.

Current publications from the department may be reviewed at: go.osu.edu/currentpubs.

Unique Center Encourages and Supports Researchers

Ohio State’s Center for **Surgical Health Assessment, Research and Policy (SHARP)** was founded to help researchers identify the biophysical underpinnings of surgical disease, test innovative approaches to surgical care and optimize the quality, cost and outcomes of surgery. With both new or experienced investigators, SHARP’s thriving group of surgeon-scientists pursues a wide range of projects while connecting with other health and public health research entities across the Ohio State campus and beyond. SHARP members receive and provide mentorship through private consultations, brainstorming sessions, development seminars and research-in-progress meetings. They can also access physical space and a secure database server, as well as staff support for project coordination, data management and statistical analysis. Dedicated resources are prioritized and allocated for R- and K-level grant opportunities or the equivalents from other federal or philanthropic sources. “Ohio State’s support and financial backing of SHARP is a concrete illustration of our medical center’s belief that the future of medicine is dependent on research,” says SHARP director Heena Santry, MD, MS.

“Ohio State’s support and financial backing of SHARP is a concrete illustration of our medical center’s belief that the future of medicine is dependent on research.” — Heena Santry, MD, MS, SHARP director

To learn more about SHARP, visit wexnermedical.osu.edu/departments/surgery/research/health-services.

University-wide Collaboration Amplified by New Center

Housed within the Department of Surgery, the **Center for Research Education & Advancement of Transdisciplinary Exploration** (CREATE) supports transdisciplinary collaboration to accelerate healthcare innovation for improved patient outcomes. This approach is intended to streamline product and technology development, expedite consultation, save costs and expand partnerships with private industry.

Project teams include physicians; advanced practice providers; pharmacists; nurses; physical therapists; occupational therapists; respiratory therapists; dietitians; faculty from the colleges of Engineering, Design and Nursing; faculty from the Department of Computer Science and Engineering; graduate and undergraduate students from multiple colleges within Ohio State; and corporate partners.

“We have so many bright minds and dreamers at Ohio State, and CREATE strengthens our innovation through a high concentration of experts from different disciplines working on projects together rather than working in silos,” explains CREATE director Daniel Vazquez, MD.

Learn more about CREATE at wexnermedical.osu.edu/departments/create.

Raphael Pollock, MD, PhD; P30 for:

- Two Cancer Center Support Grants

Bryan Whitson, MD, PhD;

- R01 for “Preservation and Rescue of The Lung Donor Allograft for Transplantation”
- Department of Defense grant for “Developing MG53 as a novel protein therapeutic for acute lung injury”

William Carson, MD (et al); UM1 for:

- “Experimental Therapeutics of Anti-Cancer Agents With Phase I Emphasis”

Heena Santry, MD, MS; R01 for:

- “A New Specialty Responding to National Needs: Does Acute Care Surgery Deliver?”

K. Craig Kent, MD; R01s for:

- “Development of Unimolecular Nanoparticle-mediated Periadventitial Drug Delivery System for Sustained and Targeted Inhibition of Intimal Hyperplasia Following Open Vascular Reconstruction”
- “Targeting PERK: An Endothelium-Protective Stent-Free Strategy for Mitigation of Intimal Hyperplasia After Vascular Surgery”

Allan Tsung, MD; R01s for:

- “Surgery Triggered Immune Response and Liver Metastases”
- “Endogenous Regulators of Inflammation in Liver Ischemia/Reperfusion”

Prabhakara Nagareddy, PhD; R01 for:

- “Thrombocytopoiesis in Diabetes”

The Ohio State Department of Surgery is dedicated to mentoring and supporting our surgical scientists toward obtaining their K and R awards. In addition, both our residency and fellowship tracks allow for extensive research to support and cultivate our trainees’ areas of interest.

CLINICAL CARE

Surgery Divisions FY2019 by the Numbers

Cardiac Surgery
OR Cases: 1,019
wRVUs: 61,334

Colon and Rectal
OR Cases: 2,893
wRVUs: 79,140

General and GI
OR Cases: 4,478
wRVUs: 79,140

Pediatric
OR Cases: 4,478
wRVUs: 91,510

Surgical Oncology
OR Cases: 2,369
wRVUs: 90,295

Thoracic
OR Cases: 1,262
wRVUs: 28,657

Transplantation
OR Cases: 999
wRVUs: 71,233

Trauma, Critical Care and Burn
OR Cases: 2,374
wRVUs: 78,572

Vascular
OR Cases: 1,530
wRVUs: 54,088



Improving Patient Health and Changing Lives

Better clinical care motivates all we do in Ohio State’s Department of Surgery. We serve as a surgical referral center for patients and physicians worldwide, and we specialize in some of the most complicated illnesses and conditions in both adults and children. As part of a research-driven, academic institution that is nationally ranked, we celebrate the role of continual learning and collaboration in better patient care.

FY2019 by the Numbers

Clinical Faculty: **90**

Advanced Practice Providers: **85**

Admissions: **8,629***

wRVUs: **585,497**

OR Cases: **18,313**

*Ohio State Wexner Medical Center Patient Statistics



July 2019 Milestone: Ohio State Performs 10,000th Transplant

The Ohio State University Wexner Medical Center completed its 10,000th organ transplant in July 2019 and celebrated this incredible accomplishment with a display of pinwheels — one for each transplant — in the grass outside the main University Hospital entrance. Ohio State now ranks 14th in the nation for transplant volume, and it's expected that final 2019 numbers will surpass the 461 transplants performed in 2018. Division Director Kenneth Washburn, MD, attributes much of the growth to increased awareness about living kidney and liver donors, active outreach programs and broader eligibility guidelines for both patients and viable organs.



Thoracic Program Recognized for Excellence in Esophagectomy

Ohio State's Division of Thoracic Surgery has earned a distinguished three-star rating for esophagectomy from the Society of Thoracic Surgeons (STS), which denotes the highest category of quality. "This places Ohio State among elite programs in the United States and Canada for this important cancer treatment," says Thoracic Division Director Robert Merritt, MD. The division has performed over 200 minimally invasive esophagectomies since 2014 in partnership with GI Medicine and Oncology. "The volume has certainly strengthened our proficiency with this procedure," says general surgeon Kyle Perry, MD. "We have now attained a mortality rate of less than 1% and an anastomotic leak rate of less than 4%."



Complex Cases Are Typical for Aortic Center

The Aortic Center at Ohio State has become a referral center for some of the Midwest's toughest vascular conditions, including aneurysms, dissections and occlusion and re-operative surgery for failing endografts. "We routinely perform hybrid aneurysm surgeries using a combination of open and endovascular techniques, thoracoabdominal aortic aneurysm repairs, aortic dissections and treatment of aortoiliac occlusive disease," says Timur Sarac, MD, center director and division director for Vascular Diseases and Surgery. Jovan Bozinovski, MD, associate director, emphasizes that Ohio State "never hesitates to accept emergency cases from both local and regional medical centers."

Kristine Orion, MD, director of Quality and Patient Safety, notes that, with an entire floor at the Ohio State Ross Heart Hospital dedicated to vascular medicine, "patients at the Aortic Center benefit from the world-class talents of board certified surgeons, a dedicated nursing staff, state-of-the-art operating rooms specifically designed for their needs and a team of experts with a deep understanding of aortic disease gained from an active research environment and clinical trials."

World's First Center for Abdominal Core Health Opens at Ohio State

The Center for Abdominal Core Health brings together a multidisciplinary team of experts to help patients improve their core strength and to treat problems of the abdominal core. Nonsurgical options are explored first, but when surgery is required, clinicians from general and gastrointestinal surgery, plastic surgery, trauma surgery, cancer surgery, physical therapy and rehabilitation, colorectal surgery and integrative medicine work together to help patients achieve long-term recovery and success. "It is exciting to be literally the 'world's first' to formalize a collaborative treatment process for something that so dramatically impacts a patient's quality of life," says center co-director Benjamin Poulouse, MD, MPH. As a pioneer in the new field of abdominal core health, Ohio State serves as the Data Coordination Center for the Americas Hernia Society Quality Collaborative (AHSQC) and is also leading the effort to develop the AHSQC's Abdominal Core Surgery Rehabilitation ProtocolSM.





Division of Cardiac Surgery

The Ohio State Heart and Vascular Center cardiac surgery team brings together highly skilled surgeons, the most advanced technology and world-class facilities to deliver exceptional surgical heart care. The cardiac surgery team published more than 60 peer-reviewed articles in leading publications.

We specialize in the treatment of the most complex cardiac surgery patients with less invasive therapies, complex reoperations, coronary artery bypass surgery, heart valve surgery, aortic surgery, endovascular and transcatheter procedures, heart and lung transplantation, mechanical circulatory support and ECMO.

Primary Programs:

- **Thoracic Transplant and Mechanical Circulatory Support Program** – This is the only such program in central Ohio, and it provides cutting-edge technology including ex-vivo lung perfusion, total artificial heart, minimally invasive left ventricular assist devices (LVAD) and extracorporeal life support.
- **Minimally Invasive and Robotic Surgery** – Our surgeons offer valve replacement through keyhole operations when appropriate, and they collaborate closely with cardiology to deliver leading transcatheter valve replacement therapy (TAVR). Our cardiac surgeons perform minimally invasive procedures, including coronary artery bypass surgery, in which we use a robot to mobilize the left internal mammary artery and perform a small left-anterior thoracotomy incision for an off-pump coronary artery bypass.
- **Aortic Center** – The Ohio State Aortic Center combines the expertise of highly skilled cardiac surgeons and vascular surgeons to provide a tailored approach to each patient's care for even the most complex aortic cases.
- **Adult Congenital Heart Surgery Program** – Ohio State's Adult Congenital Heart Disease program is one of the largest in the country. Our cardiac surgeons at 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 through:

- Complex reoperations
- Coronary artery bypass surgery
- Heart valve surgery
- Aortic surgery
- Mitral valve surgery
- Surgery for hypertrophic obstructive cardiomyopathy
- Minimally invasive surgery
- Endovascular procedures
- Transcatheter valve replacement and repair procedures
- Heart and lung transplantation
- Mechanical circulatory support
- Extracorporeal membrane oxygenation (ECMO)

To refer, please call the Division of Cardiac Surgery at 614-293-5502 or fill out the one-page Ohio State Wexner Medical Center referral form available at wexnermedical.osu.edu/ReferralForm and fax your referral to 614-293-1456.

Faculty



Nahush Mokadam, MD
Director, Division of Cardiac Surgery

Clinical Faculty

Adult Cardiac Surgery

Jovan Bozinovski, MD
Asvin Ganapathi, MD
Saverio La Francesca, MD
Peter Lee, MD, PhD, MPH
Gregory Rushing, MD
Bryan Whitson, MD, PhD

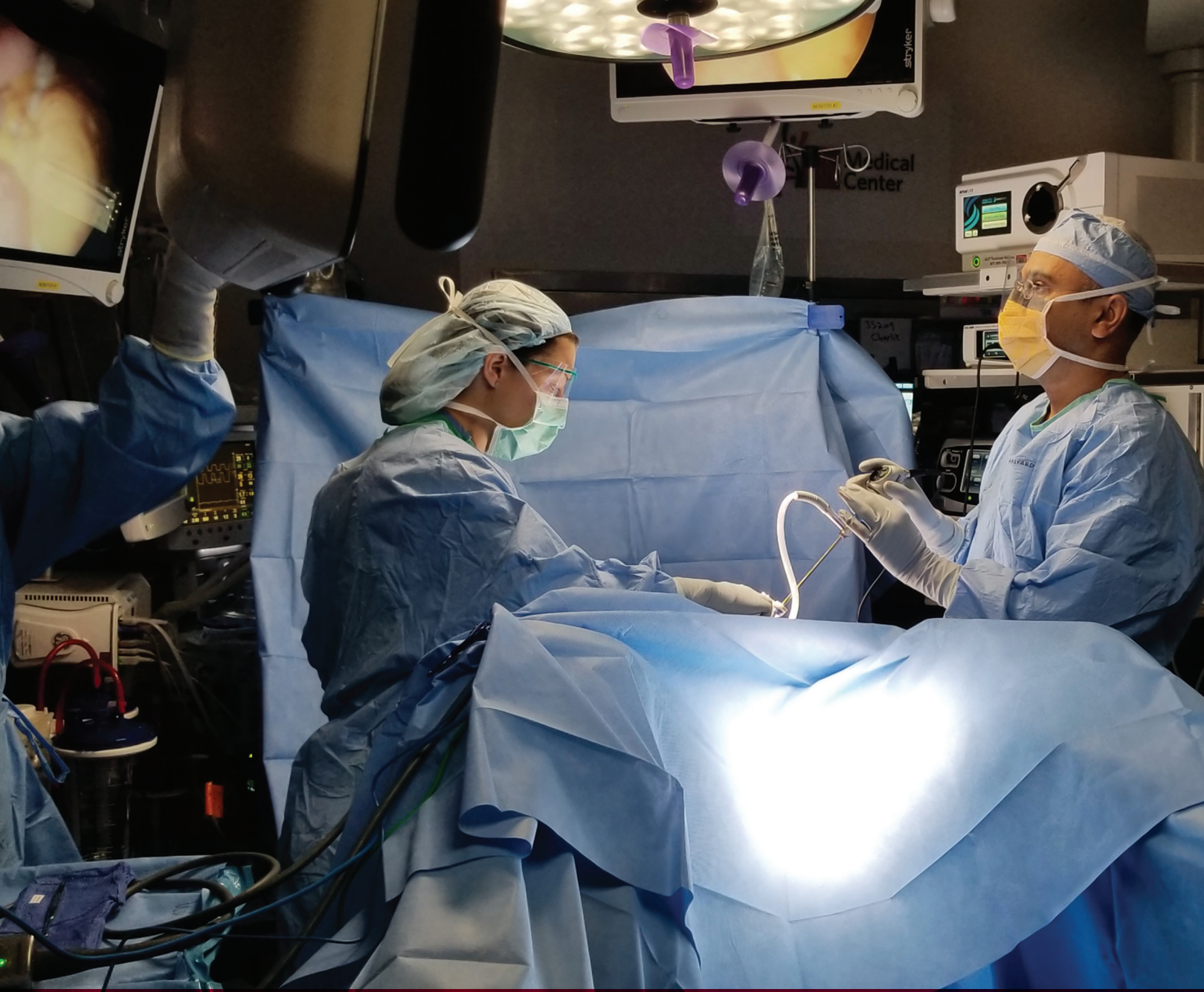
Pediatric and Congenital Cardiac Surgery

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

Research Faculty

Chuanxi Cai, PhD
Renzhi Han, PhD
James Ko, PhD
Haichang Li, DVM, PhD
Pei-Hui Lin, PhD
Jianjie Ma, PhD
Prabhakara Nagareddy, PhD
Hua Zhu, PhD

* Castle Connolly 2019 Top Doctor



Division of Colon and Rectal Surgery

The Division of Colon and Rectal Surgery at Ohio State is recognized for our patient care related to diseases and cancer of the colon and rectum. 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 board certified and dedicated to practicing only within his or her 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:

- **Pelvic Floor Disorders Clinic** – This program is offered two days per month at our convenient Outpatient Care Upper Arlington location. The clinic provides comprehensive testing and evaluation, and a range of treatment options for men and women diagnosed with a variety of pelvic floor disorders.
- **Robotic Surgery** – This fast-growing program provides options for treatment of diseases of the colon and rectum. The treatment affords patients the advantages of a shorter hospital stay, less blood loss, reduced pain and quicker recovery. In the Division of Colon and Rectal Surgery, we have leveraged the expertise of Syed Husain, MBBS, and Amber Traugott, MD, to expand our robotic volume for colectomy and lower anterior resection (LAR).
- **Colorectal Transitional Care** – Under the leadership of Alessandra Gasior, DO the Center for Colorectal Transitional Care is a collaborative effort that helps children born with colorectal malformations and other congenital conditions have a smooth transition of care once they reach adulthood.
- **Anal Cancer Screening Program** – The first formal program in Ohio and one of few in the country should improve the diagnosis and treatment of anal cancer, which has increased at an alarming rate, particularly among the often underserved population of HIV-positive gay men. Lead by Dr. Syed Husain, this program will be available in 2020 at The James at Martha Morehouse Outpatient Care.
- **Colorectal Cancer** – The OSUCCC – James colorectal cancer treatment team includes internationally recognized specialists in the prevention, diagnosis, genetic sequencing and treatment of colorectal cancers. Working together across several medical disciplines (oncologists, surgeons, radiologists, pharmacists and others), our expert team develops individualized treatment plans that target each patient’s biologically unique malignancy.

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
- Anorectal disease
- Benign colonic disease

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

Faculty



Mark Arnold, MD
Director, Division of Colorectal Surgery

Clinical Faculty

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

* Castle Connolly 2019 Top Doctor



Division of General and Gastrointestinal Surgery

Ohio State 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, hepatobiliary surgery, and hernia repair and complex abdominal wall reconstruction.

Primary Programs:

- **Comprehensive Weight Management and Metabolic Bariatric Surgery Program** – Achieved 5% OR volume growth last year, welcomed an additional bariatric surgeon and is now finalizing the FY2020 launch of a new robotic bariatric surgery program.
- **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.
- **Comprehensive Esophageal Health Center** – A multidisciplinary foregut clinic being designed by GI, thoracic and oncology surgery divisions with a planned 2021 launch.

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
- Hernia repair
- Gastrointestinal and hepatobiliary surgery

To refer, please call the Division of General and Gastrointestinal Surgery at 614-293-3230 or Bariatric Surgery at 614-366-6675, or fill out the one-page medical center referral form available 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, FACS, FASMBS
Courtney Collins, MD
Kelly Haisley, MD
Michael Meara, MD, MBA
Vimal Narula, MD
Bradley Needleman, MD*
Sabrena Noria, MD, PhD
Kyle Perry, MD
David Renton, MD

Research Faculty

- Daniel Gallego-Perez, PhD

* Castle Connolly 2019 Top Doctor



Division of Pediatric Surgery

The Division of Pediatric Surgery conducts its clinical care at Nationwide Children's Hospital (NCH). Consistently ranked as a top 10 Children's Hospital by *U.S. News & World Report*, NCH is the largest pediatric treatment center in the United States and is one of the only hospitals in the United States designated an American College of Surgeons Level I pediatric trauma center, an American Burn Association-verified pediatric burn center and a Commission on Accreditation of Rehabilitation Facilities (CARF) approved pediatric rehabilitation center.

The division provides world-class expertise in multiple focused areas of excellence, including pediatric minimally invasive surgery, burn care, trauma care, inflammatory bowel disease surgery, adolescent bariatric surgery, gastrointestinal motility disorders, chest wall deformities, surgical oncology and surgical endocrinology.



Primary Programs:

- **Pediatric Robotic Surgery** – The busiest freestanding program of its kind in the U.S. with 15 trained surgeons and procedures in general pediatric surgery, adolescent bariatric surgery, pediatric surgical oncology, pediatric thoracic surgery and pediatric urology.
- **Pediatric Minimally Invasive Surgery** – Includes complex neonatal cases and posts some of the highest volume of cases in the country.
- **Pediatric Burn Program** – Provides comprehensive multidisciplinary care to children with burn injuries and cutaneous conditions at an American Burn Association Verified Burn Center.
- **Pediatric Trauma Program** – One of the largest pediatric ACS-verified Level 1 trauma centers in the nation.

Referral Information

Our surgeons perform robotic surgery, as well as advanced laparoscopic, endoscopic and thoracoscopic techniques in our Pediatric Surgery and Minimally Invasive Surgery (MIS) programs. Other specialties include active clinical programs focused on general pediatric surgery, surgical oncology, surgical endocrinology, trauma, burns, chest wall deformities, bariatric surgery, inflammatory bowel disease, hepatobiliary surgery, neuromodulation and pediatric colorectal surgery.

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
Christopher Breuer, MD*
Katherine Deans, MD, MHSC
Karen Diefenbach, MD
Renata Fabia, MD, PhD*
Jonathan Groner, MD*
Ihab Halaweish, MD
Brian Kenney, MD, MPH*
Marc Michalsky, MD*
Peter Minneci, MD, MHSC
Benedict Nwomeh, MD, MPH*
Oluyinka Olutoye, MD
Rajan Thakkar, MD
Richard Wood, MD

Research Faculty

David Brigstock, PhD

* Castle Connolly 2019 Top Doctor



Division of Surgical Oncology

Our surgical oncology physicians are trained in general surgery, have been certified by the American Board of Surgery, have received additional training in surgical oncology and are active members of the Society of Surgical Oncology. Special areas of expertise include gastrointestinal cancer, breast cancer, melanoma, thyroid cancer, head and neck cancer, and soft tissue sarcoma.

They work alongside other world-renowned cancer experts at The Ohio State University Comprehensive Cancer Center – Arthur G. James Cancer Hospital and Richard J. Solove Research Institute (OSUCCC – James), an NCI-designated comprehensive cancer center that has been ranked as a top cancer hospital the past 21 years by *U.S. News & World Report*.

Primary Programs:

- **Breast** – The Stefanie Spielman Comprehensive Breast Center offers a full continuum of care — from prevention and screening through diagnosis, treatment and survivorship — in one facility equipped with state-of-the-art technology for diagnosing and treating breast malignancies. The center features a multidisciplinary team of breast cancer experts, including surgical oncologists.
- **Melanoma** – A Cutaneous Oncology Clinic at the OSUCCC – James offers newly diagnosed melanoma patients a same-day, on-site evaluation and treatment-options review by experts in several disciplines, including surgical oncology. Our team offers many surgical options, such as hyperthermic isolated limb perfusion/infusion and systemic therapies that include targeted and immunotherapeutic options.
- **Neuroendocrine** – Neuroendocrine cancer specialists at the OSUCCC – James span multiple disciplines — including surgical oncology — that collaborate to devise optimal treatment plans for patients with these tumors, which can form in a number of organs and glands.
- **Sarcoma** – Experts at the OSUCCC – James and Nationwide Children’s Hospital identify and seek to understand soft-tissue and bone sarcomas at the molecular level in each patient so they can devise optimal treatment plans. Our sarcoma subspecialists span a range of disciplines, including surgical oncology.
- **Gastrointestinal (GI)** – The OSUCCC – James colorectal cancer treatment team includes globally recognized specialists in the prevention, diagnosis, genetic sequencing and treatment of colorectal cancers and other GI malignancies. Working across several disciplines, our team develops individualized treatment plans that target each patient’s unique cancer. Many of our experts are on the National Comprehensive Cancer Network guideline committees.
- **Robotic Surgery** – Ohio State’s Center for Advanced Robotic Surgery has more than 35 specialists who offer robotic surgery at the Ohio State Wexner Medical Center and the OSUCCC – James. They work in more than 10 specialties and have expertise in over 80 procedures performed on one of seven da Vinci® robotic surgical systems available at Ohio State. They are backed by a highly experienced surgical support team of nurses and technicians.

Referral Information

To refer, call the Division of Surgical Oncology via The James Line at 614-293-5066, or fill out the one-page medical center referral form available at wexnermedical.osu.edu/ReferralForm and fax your referral to 614-293-1456.

Faculty



Allan Tsung, MD
Director, Division of Surgical Oncology

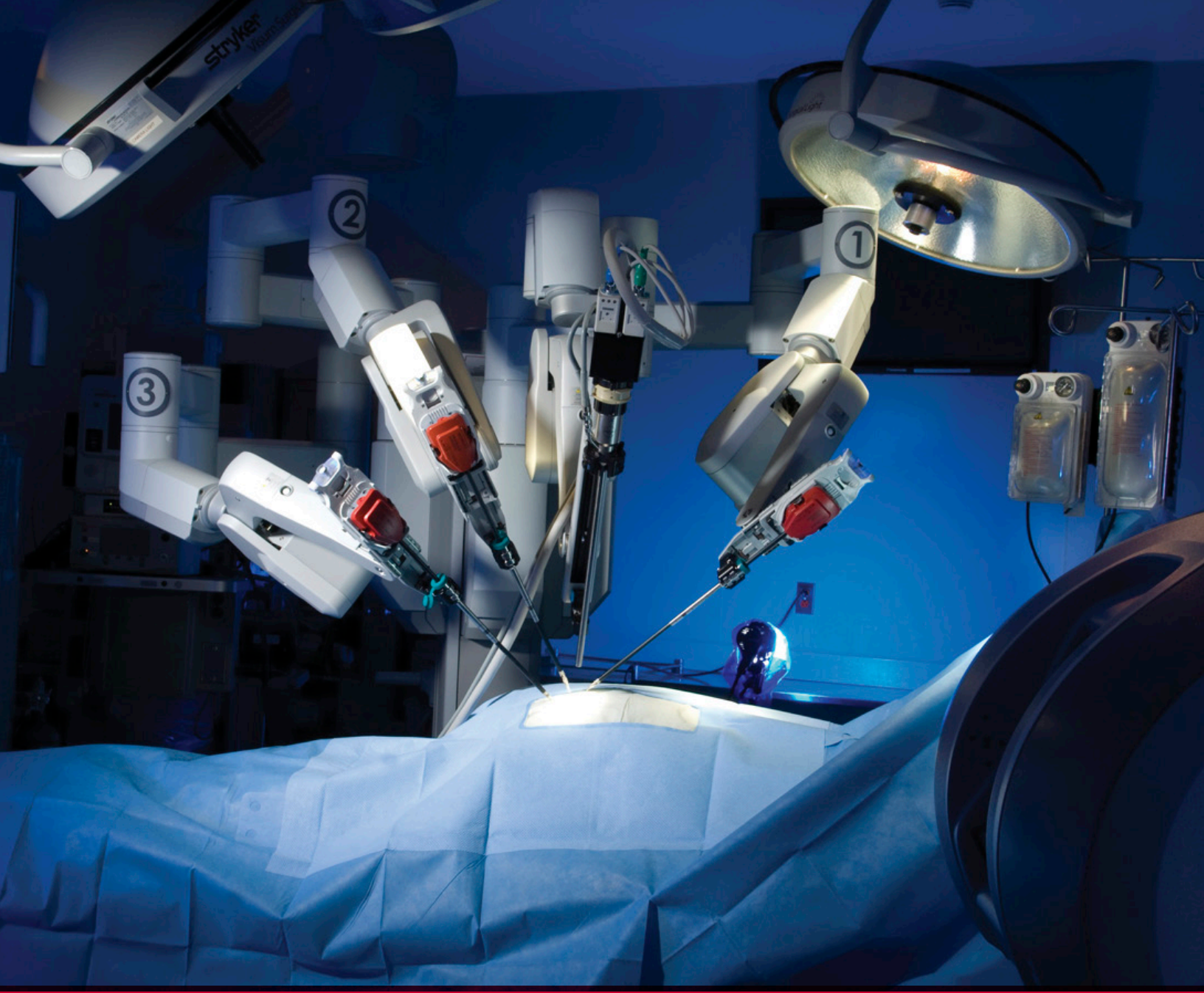
Clinical Faculty

- Doreen Agnese, MD*
Joal Beane, MD
William Carson, MD*
Jordan Cloyd, MD
Mary Dillhoff, MD
Aslam Ejaz, MD, MPH
William Farrar, MD*
Valerie Grignol, MD*
Andrei Manilchuk, MD
Bridget Oppong, MD
Ko Un “Clara” Park, MD
Timothy Pawlik, MD, PhD*
John Phay, MD
Raphael Pollock, MD, PhD*
Stephen Povoski, MD*

Research Faculty

- Zhiwei Hu, PhD
Hai Huang, PhD
Anne Strohecker, PhD

* Castle Connolly 2019 Top Doctor



Division of Thoracic Surgery

Dedicated to providing multidisciplinary care for malignant and benign diseases of the chest, Ohio State’s Division of Thoracic Surgery earned a distinguished three-star rating from The Society of Thoracic Surgeons (STS) 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 U.S. and Canada.

Primary Programs:

- **Robotic Surgery** – Ranked first in Ohio with over 160 robotic-assisted lobectomies performed in FY2019.
- **Minimally Invasive Thymectomy for Myasthenia Gravis** – A multidisciplinary program formed with Neurology.
- **Minimally Invasive Esophagectomy** – A combined program of minimally invasive surgery, GI medicine and oncology with over 160 procedures completed from 2014-2019.
- **Lung Volume Reduction Surgery Program** – With 19 cases performed in FY2019, Ohio State 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 radiation oncology through Cancer and Leukemia Group B (CALGB), Radiation Therapy Oncology Group (RTOG) and American College of Surgeons Oncology Group (ACOSOG).

Referral Information

The surgeons in the Division of Thoracic Surgery accept referrals for patients with an extensive range of conditions, including:

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

Our surgeons also offer an extensive range of services, including:

- Endobronchial ultrasound (EBUS)
- Endoscopy
- Lung volume reduction surgery (LVRS)
- Open lung biopsy
- Robotic surgery
- Thoracotomy
- Tracheal resection and reconstruction

To refer, please call the Division of Thoracic Surgery at 614-293-9059, or fill out the one-page medical center referral form available at wexnermedical.osu.edu/ReferralForm and fax your referral to 614-293-1456.

Faculty



Robert Merritt, MD*
 Director, Division of Thoracic Surgery
 Associate Program Director,
 Cardiothoracic Surgery

Clinical Faculty

Desmond D’Souza, MD
 Peter Kneuert, MD
 Susan Moffatt-Bruce, MD, PhD, MBA*

* Castle Connolly 2019 Top Doctor



Division of Transplantation Surgery

The Ohio State University Wexner Medical Center recently celebrated 10,000 solid organ transplants since its first transplant, a kidney, 52 years ago. Less than 10% of adult transplant centers in the United States have achieved this milestone.

As central Ohio's only adult comprehensive transplant center, Ohio State performs approximately 475 transplants each year, and in 2018, ranked 14th in the U.S. based on volume with excellent patient outcomes.

Primary Programs:

- **Kidney Transplant Program** – As one of the largest programs in the country, Ohio State uses donor exchange and chains to aggressively transplant many patients who might otherwise be ineligible due to incompatibility with their donor.
- **Living Donor Liver Program** – Ohio State has expanded liver transplant donor and recipient criteria and is one of only two locations in Ohio able to perform adult living liver donor transplants.
- **Liver Cancer** – One of only 41 comprehensive cancer centers in the nation as designated by the National Cancer Institute, Ohio State offers treatment for hepatocellular carcinoma and prepares these patients for liver transplantation.
- **Pancreas Auto Islet Program** – This specialized treatment for patients suffering from chronic pancreatitis and some other pancreas diseases utilizes a patient's own islet cells for reintroduction after a total pancreatectomy.
- **New Outreach Clinics** – Adding new locations in Lima and Mansfield, Ohio, in 2019.

Referral Information

The Division of Transplantation Surgery coordinates patient care with a team of transplant experts including organ specialists, infectious disease physicians, transplant coordinators, advanced practice providers, social workers, psychiatrists, dietitians and transplant pharmacists. As an academic medical center, we are able to access the latest treatments and clinical trials of new immunosuppressive drugs and antirejection therapies.

For more information or to refer a patient for a transplant consultation, visit wexnermedical.osu.edu/transplant.

Photo at left: Every April during "Donate Life" month, Ohio State's Comprehensive Transplant Center plants a pinwheel garden on the front plaza of the Ohio State Wexner Medical Center. This coming April, more than 10,000 pinwheels will be planted, each representing a lifesaving transplant performed at Ohio State since 1967. Each pinwheel has one stem supporting eight spokes, symbolic of the power of one hero to save up to eight lives through organ donation.

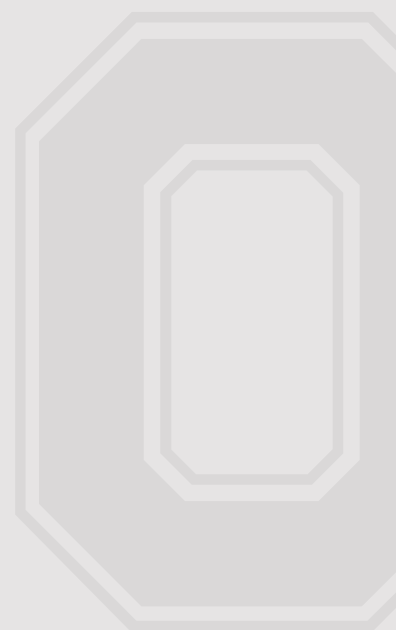
Faculty



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

Clinical Faculty

Sylvester Black, MD, PhD
Ginny Bumgardner, MD, PhD, FACS
Ashraf El-Hinnawi, MBBS
Elmahdi Elkhmmas, MD
Amer Rajab, MD, PhD
Austin Schenk, MD, PhD





Division of Trauma, Critical Care and Burn

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.

Primary Programs:

- **Level I Trauma Center at Ohio State University Hospital** – Designation awarded by the American College of Surgeons 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** – Established in 2018 with plans to transition to a Level II Trauma Center.
- **Acute Care Surgery Expansion at East Hospital** – Urgent and emergent general surgical care in a wide variety of surgical disease states, including necrotizing soft tissue infections, gastrointestinal bleeding, bowel perforation, appendicitis, acute pancreatitis, and complications after cardiovascular and cancer surgery.
- **Adult Burn Center** – Treating more than 700 patients annually and 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 ranked among the best in the country by *U.S. News & World Report*.

Referral Information

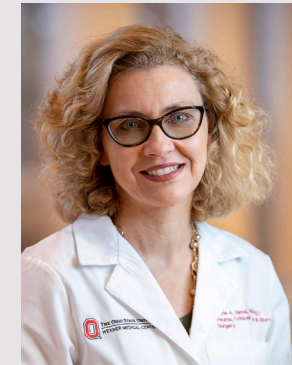
For referral to Ohio State's Comprehensive Burn Center, please call 614-293-BURN (2876).

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:
 - Third-degree burns
 - Burns to face, hands, feet, genitalia, perineum and joints
 - Electrical burns and lightning strikes
 - Chemical burns
 - Burns in patients with comorbid conditions

Our surgeons address the full scope of surgical critical care, trauma, burns, emergency general surgery and acute care surgery. To have a patient transferred to our care, call the Transfer Center at 614-293-4444 or 800-824-8236.

Faculty



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

Clinical Faculty

Amalia Cochran, MD
Daniel Eiferman, MD*
Ihab Elhassan, MD
David Lindsey, MD
Amy Rushing, MD
Heena Santry, MD
Steven Steinberg, MD
Michael Sutherland, MD, FACS
Daniel Vazquez, MD
Jonathan Wisler, MD

Research Faculty

Scott Strassels, PharmD, PhD

* Castle Connolly 2019 Top Doctor



Division of Vascular Diseases and Surgery

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 over 7,942 outpatient visits and performs over 1,828 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.

Primary Programs:

- **Ohio State Total Vein Care** – Outpatient treatment from board certified vascular surgeons with more than 30 years’ experience in the treatment of venous disease.
- **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 Program** – Part of the Comprehensive Wound Center, offering a multidisciplinary approach and advanced techniques to treat patients with limb-threatening conditions.
- **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 for patients with a variety of issues, including:

- Open and endovascular repair of aneurysms (abdominal, thoracic)
- Minimally invasive endovascular treatment of limb ischemia and claudication
- Bypass surgery on peripheral arteries
- Carotid endarterectomy
- Carotid artery stenting, including transcarotid and transfemoral
- Non-atherosclerotic vascular disease – compartment syndrome and thoracic outlet syndrome
- Peripheral arterial intervention and repairs
- Venous repairs
- Debridements
- Angiograms
- Interventions (angioplasty and stents)
- Venograms
- IVC filters
- Creation and repairing AV fistulae for dialysis
- Kidney and intestinal artery bypasses or stents

To refer, please call the Division of Vascular Diseases and Surgery at 614-293-8536, or fill out the one-page medical center referral form available 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

Clinical Faculty

- Michael Go, MD, FACS*
Mounir Haurani, MD, FACS
K. Craig Kent, MD*
Kristine Orion, MD
Bhagwan Satiani, MD, MBA, FACS
Jean Starr, MD, FACS*
Patrick Vaccaro, MD, MBA, FACS*

Research Faculty

- Lian-Wang Guo, MS, PhD
Bowen Wang, PhD

* Castle Connolly 2019 Top Doctor

*“People do small things
that snowball and
make a difference.”*
— Angie Ward

The Power of Philanthropy

In her understated way, Angie Ward sums up the impact she and her late husband, Don, have had over 20 years of giving to The Ohio State University Wexner Medical Center.

“The medical center’s philanthropy is ambitious. How they have approached it reveals a high regard for the talents of the physician-scientists, administrators and awardees of their programs who do the work.”

In the Department of Surgery, the couple recently funded the following two programs, which support the development of up-and-coming physician-scientists and surgeons, respectively:

- **Emerging Surgical Scholar Research Professorship** to launch the careers of promising surgeon-scientists. Unlike traditional professorships held by senior faculty in perpetuity, this professorship rotates to a new surgeon-scientist every three or four years.
- **The Ward Family Transplant Fellowship Support Fund** to support education, immersive training and fellowship support in the Comprehensive Transplant Center.

In recent years, as the Wards were founding these and other medical programs at the Ohio State Wexner Medical Center, Don Ward was facing a private battle with cancer. In the summer of 2019, he lost his courageous fight.

Just months before his death, Angie Ward gave an interview in which she talked about the couple’s philanthropy at Ohio State.

“People do small things that snowball and make a difference,” she said. “We believe in giving back ... That makes us feel like our contributions are offering hope and making a difference in our community and beyond.”



Angie and Don Ward



Fun Outing. Serious Cause.

The Society of Fire Prevention Engineers (SFPE) first began hosting their Burn Center Outing 30 years ago with approximately 50 golfers. The event has since grown to include a record attendance of over 164 golfers. The day includes a four-person scramble, backpack, box lunch, dinner, speakers telling their own successful burn treatment stories, prizes and an award reception.

Funds raised benefit the burn units at the Ohio State Wexner Medical Center and Nationwide Children’s Hospital, so that patients can receive specialized equipment or access therapies that help them and their families thrive. Amalia Cochran, MD, FACS, director of Ohio State’s Burn Center and the AEP Chair of Burn Surgery, credits the SFPE golf outing as “going miles to meet the known and new needs of our patients every year.”



New Professorship Supports Women in Surgery

In 1987, Olga Jonasson, MD, FACS, renowned transplant surgeon and immunology researcher, was named chair of the Department of Surgery at The Ohio State University College of Medicine, becoming the first woman in the United States to head an academic surgery department at a co-educational school of medicine.

To honor Dr. Jonasson’s trailblazing accomplishments and to support more women in surgery, a new professorship was announced to colleagues and supporters at the home of department chair Timothy Pawlik, MD, MPH, PhD, on what would have been Jonasson’s 85th birthday in August 2019.

The Olga Jonasson, MD, Surgical Professorship will be awarded to surgeons who are dedicated to encouraging and enabling female surgeons to realize their professional and research goals. It will forever establish the importance of this initiative for generations of leaders within The Ohio State University Wexner Medical Center and other academic medical centers around the globe.

To support The Olga Jonasson, MD, Surgical Professorship, visit go.osu.edu/olga.

COLUMBUS UNEXPECTED

“Ultimately, Columbus has a little bit of everything for everyone. So if you come to Ohio State, not only will you get some of the best surgical training in the U.S, you’ll get to enjoy one of the fastest-growing cities in the country.”
— Adrian Diaz, PGY2 Resident

“Of course, there’s life outside of residency, too, and Columbus has proven to be a great place to live. I think what surprised me most was how young and vibrant the crowd was here. I really love the diversity in Columbus and the unique neighborhoods.”
— Ruth Ackah, PGY1 Resident



It’s likely that Columbus has more than you ever expected.

Columbus is a great place to start out, to stay, to raise a family and to explore.

- **We’re Big** – Ohio’s capital is the 14th largest city in the U.S. and the second largest in the Midwest behind Chicago.
- **We’re Diverse** – Our diversity makes us a top test market and there are over 100 languages represented here.
- **We’re Accessible** – The average commute is just over 20 minutes, and John Glenn Columbus International Airport is just 10 minutes from downtown.
- **We’re Affordable** – The cost of living in Columbus is 10% below the national average.
- **We’ve Earned Many High Marks and Accolades:**
 - Ranks number 47 globally on *The New York Times* list of **“52 Places to Go in 2019.”**
 - Metropolitan area with the highest concentration of **Fortune 1000 companies** – *Forbes*
 - One of **“The 6 Best Big Cities”** – *Money* magazine, September 2016
 - **#2 Top City for Best Return on Salary** – *BenefitsPro*, 2016
 - Named U.S. Department of Transportation’s **2016 Smart City**, receiving a \$50 million grant to develop intelligent transportation systems
 - **#2 Best Golf City in America** – *Golf* magazine
 - **“National Leader in LGBTQ Equality”** – The Municipal Equality Index, which includes measures of employment, housing and public attitudes toward the LGBTQ community. Columbus scored 100/100, plus 12 bonus points.
 - **#14 America’s Cities of the Future** – *Forbes*



Referring a patient? *It's never been easier.*

Our referral team will provide you with the personalized help you and your patients require — just call the numbers below and fax our one-page referral form. If you have any questions during any part of the referral process or about the status of your referral, please call our referral specialists at **614-293-5123**.

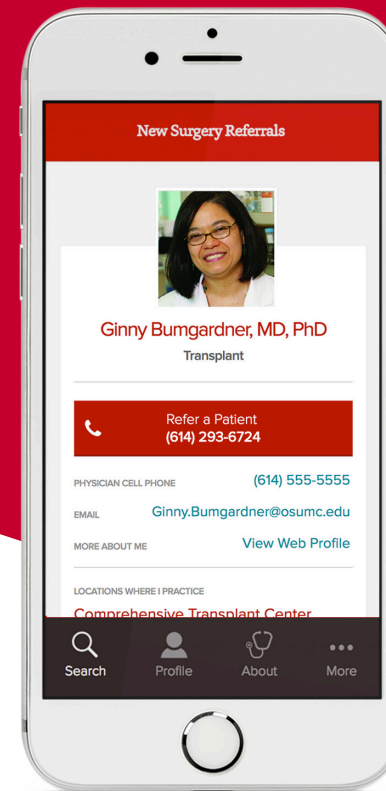
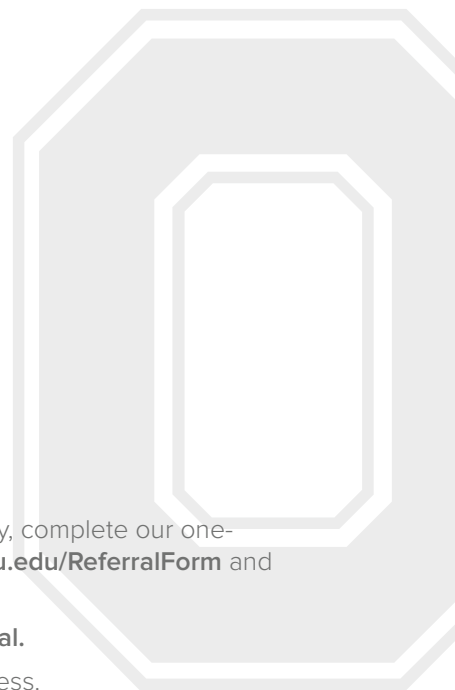
- Abdominal Transplantation Surgery (Kidney, Liver, Pancreas): 800-293-8965
- Bariatric Surgery: 614-366-6675
- Cardiac Surgery: 614-293-5502
- Colon and Rectal Surgery: 614-293-3230
- General and Gastrointestinal Surgery: 614-293-3230
- Heart Transplantation: 800-538-1886
- Lung Transplantation: 866-204-3411
- Pediatric Surgery: 614-722-3900
- Surgical Oncology: The James Line, 614-293-5066
- Thoracic Surgery: 614-293-9059
- Vascular Diseases and Surgery: 614-293-8536

For all of our divisions except Pediatric Surgical Oncology and Transplantation Surgery, complete our one-page Ohio State Wexner Medical Center referral form available at wexnermedical.osu.edu/ReferralForm and fax your referral to **614-293-1456**.

To download organ transplant referral forms, visit wexnermedical.osu.edu/trxreferral.

After we have received your fax, we will manage the scheduling and notification process.

- We will contact your patient directly to schedule a convenient time and location for their appointment.
- As referring physician, you will receive confirmation of the appointment for your records via mail, fax or Ohio State CareLink.



An easy way to communicate directly with Ohio State surgeons.

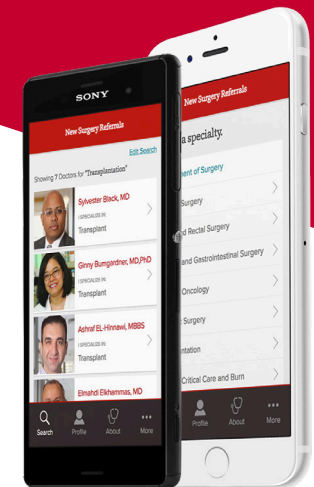
Use our New Surgery Referrals app to quickly access surgeons' cellphone numbers, email addresses and more.



New Surgery Referrals to The Ohio State University Wexner Medical Center

The app gives physicians a direct line of contact to consult and collaborate with a surgeon, improving the referral experience. Discuss a case directly with these Ohio State divisions of surgery:

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



Download now at go.osu.edu/referralapp

Use activation code **W3xn3r\$urg3ry**



Disclaimer: This app is a pilot for the Department of Surgery and is not a complete listing of every surgeon at Ohio State. Information for ENT-Facial Plastic Surgery, Orthopedic Surgery, Neurosurgery, Urology, Plastic Surgery and Ob/Gyn Surgery is not available at this time. You may not text or email personal health information to a physician.



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WEXNER MEDICAL CENTER

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