Graduate Surgical Education

Creating the Future of Surgery NOW
Welcome

Welcome to the Department of Surgery at Ohio State’s Wexner Medical Center. Our academic, research-oriented institution has a long tradition of training leaders in surgery. Our residency program graduates have achieved prominence and success in community practice and at major academic institutions throughout the United States.

Consistent with its academic legacy, the Department continues to value its commitment to educating the next generation of students, physicians and surgeons through its residency training programs. The Department provides stewardship for the Master in Medical Science Program which prepares residents for careers in research in academic surgery and other innovative programs. In the previous academic year over 20 residents and fellows completed their training in general surgery and specialty fields leaving OSU to join a variety of community and university-based practice opportunities as well as advanced academic fellowship training positions. The Department of Surgery also serves as the clinical training environment for hundreds of medical students, nurses, and allied health professionals. We are committed to providing an environment both supportive and challenging, so that you can fulfill your highest potential and assume a position of leadership in surgery.

Here you will take progressive responsibility as an integral member of our surgical team, delivering state-of-the-art patient care, teaching medical students, and contributing to innovations in medicine through translational research and clinical outcomes studies. Through a broad range of conference and clinical experiences, you will learn to function as a well-qualified, independent specialist in the dynamic health-care environment of today and tomorrow.

We believe the most important assets of an institution are its people. At Ohio State, we share a deep personal commitment and devotion to patients and members of the health care team. We welcome you and hope you will consider joining our close-knit family of residents, fellows, and faculty.

Sincerely,

Robert S. D. Higgins, MD, MSHA
Professor and Chairman, Department of Surgery
John H. and Mildred C. Lumley Medical Research Chair
Surgeon-in-Chief, Wexner Medical Center
Director, Comprehensive Transplant Center
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Sixty-six residents and fellows participate in the department’s 14 residency programs. House staff treat patients in the outpatient clinics and on the surgical service. Early clinical training broadens knowledge of general surgical concepts, patient management issues, and state-of-the-art surgical procedures. Residents assume progressive responsibilities based upon individual skill level, experience, and knowledge. Attending physicians provide supervision and conduct teaching rounds regularly. While a full-time attending surgeon is on call each night, resident teams and medical students staff the major services. A resident will have participated in 1,000 to 1,200 operative cases upon completion of the program.

ACGME-Accredited Residencies

• Cardiothoracic Surgery
• General Surgery
• Pediatric Surgery
• Pediatric Surgical Critical Care
• Surgical Critical Care
• Surgical Oncology
• Vascular Surgery

Specialty Fellowships

• Acute Care Surgery
• Advanced Therapeutic Endoscopy & Gastrointestinal Surgery
• Mechanical & Circulatory Support - Cardiac
• Minimally Invasive Surgery - Cardiac
• Minimally Invasive and Bariatric Surgery
• Transplantation - Solid Organ
• Transplantation - Thoracic
General surgery resident Jon Henry, M.D., M.S. has good things to say about learning and teaching in the Department of Surgery at The Ohio State University Wexner Medical Center.

“One of the best aspects of OSU’s Department of Surgery is the commitment to education at every level. From the chairman to the interns we take pride in our education and strive to produce the best surgical residents in the nation. Our faculty takes great interest and care in our education from the didactic conferences, to the clinic and on the wards, and into the operating room.

We have protected conference time every week for all residents, including weekly Morbidity and Mortality conferences and Grand Rounds which are often given by visiting professors who are giants in the surgical world. Many surgical skills sessions throughout the year are tailored for the specific PGY-levels to enhance their skills before encountering them in the OR. We have animal labs, simulations, FLS skills labs, and Da Vinci Robot trainers.

The entire Wexner Medical Center is committed to education and we as residents have the opportunity to work with many outstanding faculty and residents in other specialties throughout the medical center. A collegial atmosphere is present allowing our interactions to be highly educational. This cross-departmental education provides us with different perspectives and knowledge to allow us to be well-rounded, better team members.

Education of residents also extends into teaching us how to be educators. The Department encourages us to enhance our teaching skills and become excellent teachers by the time we graduate. From teaching junior residents and medical students on the wards to taking residents through cases to leading conferences, our participation in education is a large part of our own education.”

Residents in the Department of Surgery are dedicated to learning and teaching advanced surgical techniques and procedures, and assume a major responsibility for the clinical education of medical students.

The residency program director ensures that services are educational by working with rotations to improve the experience for the residents. Our clinical responsibilities with the department and medical center incorporate other staff to help including physician assistants and nurse practitioners on some of the services to assist with outpatient clinics and in-house floor patients.

The integrated and affiliated institutions of the program provide clinical resources for graduate and undergraduate surgical education. The full-time attending faculty of the Department of Surgery are based at the Wexner Medical Center, the Arthur G. James Cancer Hospital and Richard J. Solove Research Institute, the Richard M. Ross Heart Hospital, University Hospital East, Nationwide Children’s Hospital, and Grant Medical Center.

The Wexner Medical Center and the Department of Surgery host a variety of forums and seminars, where highly skilled clinicians and researchers share their expertise and advance the profession.

The extensive collection of the Health Sciences Library includes the papers and memorabilia of Dr. Robert M. Zollinger, the internationally respected surgeon and former department chairman. Divisional libraries supplement the collection of the health sciences library.

A comprehensive range of support services, including a call room suite, a free iPhone, and dry cleaning facilities, are provided to residents.
General surgery resident Mika Matthews, M.D., M.S., says the research experience in the Department of Surgery at The Ohio State University Wexner Medical Center provides residents with a valuable opportunity to broaden their skills and deepen their understanding.

“The significance that our institution places on research and academic advancement is remarkable. One of the features that drew me to this program was the support it provides to its residents in advancing their academic careers. Through strong relationships across varying specialties and departments, residents are afforded the opportunity to participate in a very diverse field of research. We also have the chance to further our post-doctoral education by obtaining a master’s degree.”

“My years dedicated towards research have significantly enhanced my time as a general surgery resident. While in the lab, I have learned first-hand what it is to be involved in research from the inception and development of a new project, to presentations at national conferences, and later seeing the results of your efforts published. These experiences have contributed to my growth not only as a surgical resident, but as a well-rounded physician.”
Integrated and Affiliated Hospitals

The Ohio State University Wexner Medical Center
Consistently recognized as one of America’s best hospitals, The Ohio State University Wexner Medical Center is dedicated to patient care, research, and medical education. An institution with advanced diagnostic and therapeutic capabilities and more than 900 licensed beds, the Wexner Medical Center is a major tertiary referral center and a Level I trauma center with a helicopter transport service. A network of primary care centers refers patients to the Medical Center’s comprehensive patient management system.

The Arthur G. James Cancer Hospital and Richard J. Solove Research Institute
Dedicated to care of the cancer patient and to cancer research, the Arthur G. James Cancer Hospital and Richard J. Solove Research Institute is the only freestanding cancer hospital in Ohio and is one of 16 charter members of the National Comprehensive Cancer Network. An institution with 172 licensed beds, the James is adjacent to the Wexner Medical Center.

The Richard M. Ross Heart Hospital
Home to Ohio State’s nationally-ranked heart program and dedicated exclusively to the care of patients with cardiovascular disease, the Richard M. Ross Heart Hospital is a 150-bed, state-of-the-art institution offering advanced imaging and surgical technologies and patient care facilities. The hospital adjoins Ohio State’s Wexner Medical Center.

University Hospital East
A full-service 175-bed community-based hospital and home to the Wound Care Center. The award-winning Wound Care Center is the only center to offer hyperbaric oxygen therapy in central Ohio, along with other innovative therapies. University Hospital East is located on the near east side of Columbus, six miles from Ohio State.

Nationwide Children’s Hospital
One of the largest freestanding children’s hospital in the United States, Nationwide Children’s Hospital provides a broad spectrum of services, from advanced neonatal intensive care and surgery to primary and secondary medical care. Children’s Hospital is fully integrated with the training programs of the College of Medicine and The Ohio State University Wexner Medical Center. A Level I trauma center, Children’s is located just east of downtown Columbus, five miles from Ohio State.

Grant Medical Center
Located in the heart of downtown Columbus, five miles from Ohio State, Grant Medical Center is a busy, respected hospital and a Level I trauma center.
Advanced Therapeutic Endoscopy & Gastrointestinal Surgery

This one-year clinical assistant professorship in advanced therapeutic endoscopy and gastrointestinal surgery provides the highest level of training in advanced endoluminal techniques. The professorship prepares the fellow to be credentialed and perform a wide variety of endoluminal techniques in clinical practice, teach and train others in these techniques and provide a basis for ongoing clinical research in endoscopic therapies.

Goals
- To train surgeons in advanced endoluminal techniques, specifically diagnostic and therapeutic ERCP, endoscopic stenting, endoluminal approaches to GERD and resection/ablation of superficial mucosal lesions.
- Prepare the trainee to repopulate the general surgery community with surgical endoscopists trained in advanced endoluminal techniques including ERCP with trainees being capable of training others in approved fellowship or preceptorships.
- Research of existing endoluminal treatment and developing new technologies/procedures would be an integral part of the fellowship with access to a comprehensive research laboratory utilizing live animals.

Facilities
All clinical, educational, research and academic responsibilities will take place at the Wexner Medical Center. Research and laboratory facilities are at Wiseman Hall on the Medical Center campus. This provides space for housing and operating rooms for large animals. This facility is certified by The Ohio State University, Animal Research Committee and the Institutional Laboratory and Animal Use Committee. All studies are under the supervision of a veterinarian and technicians. Administrative space is available for the identified fellow with secretarial assistance within the Division of General and Gastrointestinal Surgery at The Ohio State University.

Clinical Responsibilities
- Evaluate patients pre-procedure with teaching faculty.
- Assist and perform procedures under the supervision of the teaching faculty.
- Post-procedure care and management in conjunction with the resident staff under the supervision of teaching faculty.
- Assist residents with basic endoscopic procedures in the operating room or endoscopy suite.

Educational Responsibilities
- Prepare and attend monthly minimally invasive surgery conferences which consist of morbidity and mortality statistics, cases participated in during the previous month and cases of educational interest.
- Attend biweekly GI medicine/surgical conferences.
- Instruct residents in basic endoscopic techniques.
- Participate in the instruction of surgeons with the community who desire training and experience in advanced endoscopic techniques within the animal laboratory training facility.
- Participate as an instructor or lecturer in advanced endoscopic training courses.

Research Responsibilities
- Maintain an endoscopic registry for advanced procedures specifically looking at outcomes and cost-analysis.
- Test and aid in the development of new endoluminal instrumentation for clinical application process.
- Attend and present research at national meetings (SAGES).

Application Information
This fellowship participates in The Fellowship Council match process. Please visit their website at http://www.fellowshipcouncil.org/ for application and match dates.

For more information, contact:
Jeffrey W. Hazey, M.D.
Program Director
Center for Minimally Invasive Surgery
558 Doan Hall
410 West 10th Avenue
Columbus, OH 43210-1228
Phone: (614) 293-7399
Fax: (614) 293-7852
Cardiac Surgery and Thoracic Surgery

A two-year program accredited by the Accreditation Council for Graduate Medical Education is available to residents who have completed training and are board-eligible in general surgery.

Two positions are available each year, beginning July 1. Rotations, which are located at The Ohio State University Wexner Medical Center, the Arthur G. James Cancer Hospital and Richard J. Solove Research Institute, the Richard M. Ross Heart Hospital, and Nationwide Children’s Hospital, provide extensive exposure to all facets of adult and congenital cardiothoracic surgery.

**Cardiac Surgery**

The cardiac surgery experience includes:
- Cardiac transplantation
- Coronary revascularization
- Lung transplantation
- Minimally invasive cardiac surgery, including the application of robotics to minimally invasive surgery
- Pediatric cardiothoracic surgery
- Valve surgery, including complex repair
- Ventricular assist devices
- Surgery for arrhythmia
- Robotic surgery
- Surgery for emphysema
- Endoscopy

A third-year, non-accredited fellowship is offered in the areas of minimally invasive cardiac surgery, thoracic transplantation, and mechanical circulatory support.

**Research**

A fully-equipped cardiothoracic research laboratory is available, as is access to a sterile operating room for chronic experiments. Current research interests include:
- Autologous myoblasts and stem cells
- Heart failure in sheep
- Mechanisms of acute lung injury
- Preservation of the heart and lungs
- Transplantation
- Ventricular assist devices
- Atherosclerosis and inflammation

**Application Information**

For standard application forms, contact:
National Resident Matching Program
2450 N Street NW
Washington, DC 20037-1127
Phone: (202) 828-0566
Fax: (202) 828-4797
www.nrmp.org

Robert S. D. Higgins, M.D., M.S.H.A., Program Director
Vincent C. Daniel, M.D., Associate Program Director
Ahmet Kilic, M.D., Education Director

For more information, contact:
Corey Ferguson
Residency Coordinator
(614) 293-0333
corey.ferguson@osumc.edu

Address:
Division of Cardiac Surgery
N-846 Doan Hall
410 West 10th Avenue
Columbus, OH 43210-1228
Phone: (614) 293-0333
Fax: (614) 293-7221

**Thoracic Surgery**

The thoracic surgery experience encompasses all components of:
- Thoracic oncology
- Minimally invasive surgery
- Thoracic oncology
- Minimally invasive surgery
- Robotic surgery
- Surgery for emphysema
- Endoscopy

A fully-equipped cardiothoracic research laboratory is available, as is access to a sterile operating room for chronic experiments. Current research interests include:
- Autologous myoblasts and stem cells
- Heart failure in sheep
- Mechanisms of acute lung injury
- Preservation of the heart and lungs
- Transplantation
- Ventricular assist devices
- Atherosclerosis and inflammation
The General Surgery Training Program has 12 interns:
- Nine in general surgery (six categorical and three undesignated preliminary)
- Three in urology (preliminary)

Categorical positions are six years in length, a period that includes five years of clinical training and one year of research or other advanced training, such as a surgical critical care fellowship. Six chief residents in general surgery graduate each year. The residency provides progressive responsibility in:
- Preoperative and postoperative care
- Non-operative management of surgical patients
- Development of operative skills and the ability to assume independent responsibility for clinical decision-making

First-Year Goals
- Develop expertise in patient management
- Acquire basic operative skills
- Learn to set priorities in management
- Develop problem-solving, leadership, and teaching skills

First-year residents participate actively in the operating rooms and clinics.

Second-Year Goals
- Become familiar with important surgical specialties
- Develop expertise in surgical critical care and burns

Procedural exposure is excellent during the second year. Second-year residents participate in an advanced laparoscopic lab.

Third-Year Goals
The goal of the third year is the development of surgical skills. The resident serves as an intermediate resident on the surgical services, and participates in consultations, decision-making, and a greater number of major procedures.

Fourth- and Fifth-Year Goals
During the fourth and fifth years, the resident is the most senior on each service. In addition to the further development of surgical expertise, the goal of these years is to develop management and leadership skills. During the fourth year, residents are supervised by faculty and by advanced special residents (fellows); during the fifth year, residents act as service chiefs.

The Department of Surgery pays for fourth- and fifth-year residents to attend one major meeting each year, and provides them with $2,000 for the purchase of books and loupes between their third and fifth years.

Operative experience is diverse and in-depth. Residents will have served as operative surgeons on more than 1,000 major cases by the time of their graduation from the program.

In lieu of research, some residents choose to do a one-year surgical critical care fellowship in the Department of Surgery after their third year. This fellowship prepares the graduating resident to sit for the American Board of Surgery special certificate in critical care medicine.

All second- and third-year residents must also do a clinical or basic science research project, which they present at the department’s annual resident research conference in May. The department will pay for residents to attend professional meetings if they have an abstract accepted any time during their residency.

Conferences
All residents attend a Morbidity and Mortality conference, Surgery Grand Rounds, and specialty-specific conferences each week. Residents attend either a basic sciences conference or a senior resident professor conference every other week.

Evaluation
Faculty evaluate residents at the end of each rotation and semiannually. Residents are also evaluated by nurses, peers, and medical students using a 360-degree evaluation. Residents are evaluated on professionalism, medical knowledge, patient-care skills, technical skills, interpersonal and communication skills, practice-based learning and improvement, and systems-based practice.

All residents take the American Board of Surgery In-Training Exam (ABSITE) in January. Residents at the PGY3 through PGY5 levels participate in Mock Oral Board exams.

Foreign Medical Graduates
Foreign medical graduates applying to the program must hold, or be eligible for, a valid certificate from the Educational Commission for Foreign Medical Graduates (ECFMG) and a J-1 visa, and must have at least one year of experience in an accredited clinical training program in the United States.
General Surgery Rotations

PGY1
Acute Care Surgery • WMC
Colorectal Surgery • WMC
Bariatric Surgery • WMC
Float • WMC
General Surgery • WMC
Pediatric Surgery • NCH
Surgical Intensive Care • WMC
Surgical Oncology • JCH
Thoracic Surgery • RHH
Transplantation • WMC
Vascular Surgery • WMC, RHH

PGY2
Acute Care Surgery • WMC
Bariatric Surgery • WMC
Breast • JCH
Burn • WMC
Float • WMC
General Surgery • UHE, GMC, WMC
Surgical Intensive Care • WMC
Surgical Oncology • JCH

PGY3
Colorectal Surgery • WMC
General Surgery • WMC
Pediatric Surgery • NCH
Thoracic Surgery • RHH
Transplantation • WMC
Vascular Surgery • WMC, RHH

PGY4
Acute Care Surgery • WMC
General Surgery • UHE
Surgical Oncology • JCH
Vascular Surgery • WMC, RHH, UHE

PGY5
Acute Care Surgery • WMC
Bariatric Surgery • WMC
Colorectal Surgery • WMC
General Surgery • WMC, UHE

Application Information
We accept applications through the Electronic Residency Application Service (ERAS) of the National Resident Matching Program. Selected applicants will be invited for a personal interview.

For more information, contact:
Anna Patterson
Resident Coordinator
Department of Surgery
395 W. 12th Avenue, Room 662
Columbus OH  43210
(614) 293-8703
(614) 293-4063 (fax)
Minimally Invasive and Bariatric Surgery

The one-year clinical assistant professorship in minimally invasive and bariatric surgery provides the highest level of training in advanced minimally invasive surgical techniques, preparing the trainee for future clinical practice, research, and teaching.

Goals
• Apply new techniques in minimally invasive surgery
• Help to develop new applications of technology
• Train others in the application of new technology
• Provide guidance and resources for the development of independent investigations that evaluate treatment modalities in minimally invasive surgery

The program includes clinical, academic, and research components. The laparoscopic experience includes training in advanced surgical techniques, including:
• Bariatric surgery
• Bowel resection
• Esophageal surgery
• Gastroesophageal surgery
• Hernia repair
• Solid organ removal

Trainees also gain experience in flexible endoscopy, including advanced upper and lower endoscopy of the GI tract.

Program participants receive training in instructional methods for basic and advanced laparoscopic techniques, both in the laboratory, using animate and inanimate models, and in the operating room. The trainee initiates and participates in investigational projects on the pathophysiology of laparoscopy, the development of experimental techniques, and the impact of minimally invasive surgical techniques on the practice of surgery.

Facilities
Clinical work is performed at The Ohio State University Wexner Medical Center, University Hospital East, and the Arthur G. James Cancer Hospital and Richard J. Solove Research Institute. Wiseman Hall provides housing and operating rooms for large animals. The facilities are certified by The Ohio State University Animal Research Committee and by the Institutional Laboratory and Animal Use Committee. Operating room facilities under the supervision of a veterinarian and a veterinary technician are available. Office space and secretarial support are available within the Division of General and Gastrointestinal Surgery.

Clinical Responsibilities
• Assist faculty with teaching residents basic laparoscopic procedures in the operating room.
• Assist with and perform surgery under the supervision of the teaching faculty.
• Evaluate patients preoperatively with teaching faculty.
• Provide postoperative care in conjunction with resident staff, under the supervision of teaching faculty.

Educational Responsibilities
• Prepare and attend monthly minimally invasive surgery conferences consisting of morbidity and mortality statistics and educationally interesting case presentations which the fellow participated in during the previous month.
• Attend biweekly GI medicine/surgical conferences at Ohio State’s Wexner Medical Center.

• Attend morbidity and mortality conferences at the participating institutions, when cases involving laparoscopy are presented.
• Attend weekly bariatric surgery director teaching rounds which include rounding on bariatric service patients with medical students, residents and attending surgeons. Rounds are followed by discussions on bariatric surgery curriculum and relevant patient topics.
• Participate in instruction of basic and laparoscopic techniques to PGY1, PGY2, PGY3, PGY4 and PGY5 residents in surgical skills labs held at Ohio State’s Wexner Medical Center.
• Participate in the instruction of community surgeons who desire advanced practical experience within the animal laboratory facilities.
• Provide support for the clinic laparoscopic service under the supervision of teaching faculty.
• Attend and present information at national meetings (i.e. SAGES, DDW, ASMBS).
• Participate as an instructor or lecturer in advanced laparoscopic training course.

Application Information
This fellowship participates in The Fellowship Council match process. Please visit their website at http://www.fellowshipcouncil.org/ for application and match dates.

For more information, contact:
Bradley Needleman, M.D.
Program Director
Center for Minimally Invasive Surgery
558 Doan Hall
410 West 10th Avenue
Columbus, OH 43210-1228
Phone: (614) 293-7399
Fax: (614) 293-7852
**Pediatric Surgery**

The Division of Pediatric Surgery is based at Nationwide Children’s Hospital. On June 20, 2012, Nationwide Children’s Hospital opened its doors to its new 12-story, 750,000-square foot facility, the result of an $800 million campus-expansion project. The new Children’s Hospital is the second largest children’s hospital in the country, with an impressive 552 beds. The hospital has close to 1 million patient visits each year. This year, Nationwide Children’s Hospital ranked seventh on the Honor Roll of the U.S. News & World Report listing of the best Children’s Hospitals in the United States. In addition, Nationwide Children’s Hospital ranks among the Top 10 pediatric research institutes in the country as measured by National institutes of Health funding, and has three research buildings dedicated to pediatric research on its campus. The pediatric surgery service is one of the busiest services of its kind across the United States.

The division sponsors a Level I pediatric trauma program verified by the American College of Surgeons and a pediatric burn program verified by the American Burn Association. The faculty members in the division include 13 board-certified pediatric surgeons, six of whom are also certified in surgical critical care, and one hospitalist, who is board-certified in general surgery and specializes in burn and trauma care. In addition to providing general pediatric surgical care, the division provides world-leading expertise in multiple focused areas of excellence including pediatric burn care, trauma care, minimally invasive surgery, inflammatory bowel diseases, adolescent bariatric surgery, gastrointestinal motility disorders, chest wall deformities, surgical oncology, and surgical endocrinology.

The division offers two training programs accredited by the Accreditation Council for Graduate Medical Education (ACGME): a two-year residency in pediatric surgery and a one-year fellowship in pediatric surgical critical care.

Established in 1950 by Dr. H. William Clatworthy, Jr., a world-renowned clinical pediatric surgeon and clinical educator, the residency is regarded as among the most prestigious and comprehensive pediatric surgical training programs in the United States. Graduates of the residency have been recognized as academic and clinical leaders in pediatric surgery. They include distinguished pediatric surgeons such as Dr. Eric Fonkalsrud, Dr. Jay Grosfeld, Dr. James O’Neill, and Dr. Marc Rowe. The division’s award-winning residency in pediatric surgery has been recognized for excellence in its educational programs.

**Goals**

- Develop expertise in the diagnosis, operative management, and perioperative care of infants, children, and adolescents with congenital and acquired diseases. These include major anomalies, solid tumors, thermal injuries, and traumatic disorders.
- Acquire expertise in minimally invasive thoracic and abdominal surgery.
- Develop skill in pediatric surgical endoscopy.
- Develop the skills necessary for delivery of surgical care in the tertiary setting, including team management, continuous performance improvement, application of new technology, and participation in clinical research.

**Educational Schedule**

- Morbidity and Mortality Conference weekly
- Surgery-Pathology-Radiology Conference twice monthly
- Combined pediatric surgery/gastroenterology conference quarterly
- Clinical/translational/outcomes research meeting monthly
- Pediatric Surgery Tutorial weekly
- Professor Rounds twice a month
- Pediatric Specialty Lecture weekly
- Trauma Grand Rounds monthly
- Trauma Professor Rounds weekly
- Surgical Clinic weekly
- Multiple specialty clinics (Burn Clinic, Bariatric Clinic, Chest Wall Deformity Clinic, Inflammatory Bowel Disease Clinic, Tumor Clinic, Endocrine Surgery Clinic and others)

**Program Requirements**

The resident in pediatric surgery is expected to perform 1,000 to 1,200 major operations covering the breadth and scope of neonatal and pediatric surgery. Electives are offered in neonatology, pediatric urology, and other relevant pediatric specialty disciplines. At the completion of the program, the resident is eligible for the Qualifying Examination in Pediatric Surgery administered by the American Board of Surgery.

**Application Information**

The residency participates in the Electronic Residency Application Service (ERAS) of the National Resident Matching Program. Candidates are invited for interviews based on their applications and the expected completion of an accredited residency in general surgery.

For more information, contact:
Gail E. Besner, M.D.
Program Director
Department of Pediatric Surgery
Nationwide Children’s Hospital, ED 321
700 Children’s Drive
Columbus, OH 43205
Phone: (614) 722-3911
Fax: (614) 722-3903
www.nationwidechildrens.org
Pediatric Surgical Critical Care

The Division of Pediatric Surgery offers a one-year ACGME-accredited fellowship in pediatric surgical critical care. The program is based at Nationwide Children’s Hospital, and also provides electives in adult surgical critical care at The Ohio State University Wexner Medical Center.

Facilities

The Pediatric Intensive Care Unit (PICU) is a 30-bed facility that houses the cardiac, neurosurgery, and pediatric surgery patients, along with critically ill pediatric patients. The Neonatal Intensive Care Unit is contiguous with the PICU and houses the surgical neonates and infant ECMO patients. The year is focused on the care of critically ill surgical patients resulting from trauma, burns, ECMO, or major surgical procedures.

Faculty from the departments of Pediatric Critical Care Medicine, Neonatology, and Pediatric Surgery staff the intensive care units, providing 24-hour in-hospital coverage and supervision of all residents and fellows.

Curriculum

The educational program provides advanced training in all aspects of surgical critical care. Emphasis is placed on:

- Unique aspects of pediatric respiratory failure
- Principles of metabolic and nutritional support in pediatric patients
- Application of new modalities for ventilatory support
- Clinical research techniques applicable in the critical care setting

Responsibilities

- Participate in the educational conferences offered by the Department of Pediatric Surgery and by Pediatric Critical Care Medicine.
- Organize selected educational conferences and provide teaching on topics in critical care to the residents in general surgery on the pediatric surgical service.
- Participate in clinical research that leads to a presentation at a national surgical meeting and at least one peer-reviewed journal publication.

One fellowship position is available each year. Applicants must have completed at least three years of clinical training in an accredited residency in general surgery.

Application Information

For more information on the fellowship in pediatric surgical critical care, contact the program director at the address below. Applicants are invited for an interview prior to selection.

For more information, contact:
Brian D. Kenney, M.D., M.P.H.
Program Director
Department of Pediatric Surgery
Nationwide Children’s Hospital
700 Children’s Drive, ED 379
Columbus, OH 43205
Phone: (614) 722-3911
Fax: (614) 722-3903
brian.kenney@nationwidechildrens.org
www.nationwidechildrens.org
The Department of Surgery at The Ohio State University Wexner Medical Center offers a one- or two-year ACGME-accredited fellowship in surgical critical care. The program is based at the Wexner Medical Center and the Arthur G. James Cancer Hospital and Richard J. Solove Research Institute, the primary teaching facilities of The Ohio State University College of Medicine.

Facilities
The Wexner Medical Center is a tertiary-care Level I trauma and burn center serving a wide geographic area with a large population. Each year, nearly 19,000 operations encompassing all disciplines of surgery are performed, more than 2,400 trauma and burn patients are admitted, and more than 500 trauma patients are transported to the Medical Center by helicopter service. Rotations in pediatric critical care are available at Nationwide Children’s Hospital, a Level I trauma center. Rotations in cardiovascular critical care are available at Ohio State’s Richard M. Ross Heart Hospital. Rotations in neuro-critical care are available in the Department of Neurosciences Intensive Care Unit.

The surgical critical care unit at Ohio State is a 32-bed, state-of-the-art facility that cares for multidisciplinary surgical critical care patients. The Wexner Medical Center also has a burn intensive care unit. These units are directed and staffed by faculty from the Departments of Surgery and Anesthesiology (Section of Surgical Critical Care and Trauma), all of whom are certified in critical care. More than 2,400 patients are admitted to the surgical critical care units each year.

Curriculum
The curriculum provides advanced clinical training in all aspects of surgical critical care. Areas of particular emphasis include:
- Application of current principles of metabolic and nutritional support
- Management of complex hemodynamic problems
- Use of newer modes of ventilatory support

A second year devoted to clinical trauma surgery and clinical or basic research is available.

Critical care fellows participate in the clinical and basic science research projects of the Division of Trauma, Critical Care and Burn. Trainees who complete appropriate coursework in the Surgical Critical Care Fellowship may be eligible to receive a Master of Medical Science degree.

Four fellowship positions are available each year. Completion of at least three clinical years in an ACGME-accredited graduate educational program in the disciplines of general surgery, neurosurgery, urology, or obstetrics and gynecology is a prerequisite for admission to the program.

Individuals who have successfully completed an ACGME-accredited graduate educational program in Anesthesiology will also be considered for admission to the program.

Application Information
To request an application or more information on the Surgical Critical Care Training Program please contact the program director, Dr. Charles Cook, at the address below. Return the completed application and requested documents to the same address. Selected applicants will be invited for a personal interview.

For more information, contact:
Charles H. Cook, M.D.
Program Director
Surgical Critical Care
395 West 12th Avenue, Room 634
Columbus, OH 43210-1267
Phone: (614) 293-6684
Fax: (614) 293-9155
Surgical Oncology

The first university program to receive fellowship approval by the Society of Surgical Oncology, the surgical oncology training program at The Ohio State University Wexner Medical Center was established in 1977 to contribute to greater expertise in the management of oncologic disease.

Facilities
The clinical and research facilities of the Division of Surgical Oncology are located in the Arthur G. James Cancer Hospital and Richard J. Solove Research Institute, a 172-bed facility dedicated to care of the cancer patient and to cancer research. The only freestanding cancer hospital in Ohio, the facility is one of 16 charter members of the National Comprehensive Cancer Network, and is one of 39 hospitals in the nation designated as a Comprehensive Cancer Center by the National Cancer Institute. Affiliated with the Comprehensive Cancer Center are more than 200 clinical and basic research investigators, who provide expertise in patient care and up-to-date studies in oncologic research.

To maximize patient care, specialized surgical techniques are combined with radiation and chemotherapy through clinical and basic research protocols. Ohio State’s James Cancer Hospital and Solove Research Institute and The Ohio State University are associated with the Alliance for Clinical Trials in Oncology and the National Surgical Adjuvant Breast and Bowel Project, and participate in many national protocols. The Division of Surgical Oncology plays an active role in the interdisciplinary oncology unit of the Comprehensive Cancer Center, which organizes and implements local research protocols.

Curriculum
The division offers a two-year ACGME-accredited fellowship training program which includes 18 months of clinical work and six months of basic research work. An optional third year dedicated to research is available. We accept two new fellows per year.

Medical students and residents rotate through the surgical oncology service, where they play an active role in clinical activities, alongside the fellows.

Research
We strongly encourage fellows and residents to participate in our ongoing research projects. Active research programs include:

- Aspects of immunology related to oncology research
- MicroRNAs in solid tumors
- Outcomes in management of gastrointestinal malignancies
- Prevention and diagnosis of breast cancer
- Radioguided surgery
- Tumor immunology in the treatment of cancer

Application Information
For an application or more information on the Surgical Oncology Fellowship Program, please visit www.surgonc.org, or contact:

Mark Bloomston, M.D.
Program Director
Division of Surgical Oncology
M256 Starling Loving Hall
320 West 10th Avenue
Columbus, OH 43210-1228
Phone: (614) 293-4583
Fax: (614) 366-0003
E-mail: mark.bloomston@osumc.edu
Transplantation

The Ohio State University Transplant Surgery Program is recognized as one of the largest and most successful transplant centers in the United States, and as a leader in state-of-the-art surgical techniques and facilities. A two-year fellowship in abdominal transplantation is offered, with certification by the American Society of Transplant Surgeons (ASTS) in kidney and pancreas transplantation.

Trainees in the abdominal transplant fellowship program will learn management of end-stage organ disease and the specific indications/contraindications for organ transplantation. The fellowship is primarily composed of clinical activities, with research opportunities involving clinical trials, retrospective research analysis and clinical research protocol development.

The first year is focused primarily on renal transplantation. The Division of Transplant Surgery performs over 225 renal transplants per year, of which about half are living donor renal transplant cases (laparoscopic living donor nephrectomy is used almost exclusively in the program). In addition, the fellow is trained in the management and recovery of the multi-organ deceased donor and donation after cardiac death, and vascular access procedures.

The second year, training continues, with the addition of pancreas, liver and kidney/pancreas transplantation. In addition, there is a focus on outpatient care in the second year of the fellowship.

The fellow is responsible for teaching and supervising surgical residents and medical students, and assists in patient care activities on the inpatient transplant unit. The trainee is expected to follow all rules and regulations of the medical center in the provision of patient care and patient safety. Didactic components of the program include a weekly transplant seminar on transplant medicine or immunologic topics. Participation in morbidity and mortality conference and attendance at grand rounds and weekly biopsy conference is expected.

The performance of the fellow will be assessed according to the current graduate medical education (GME) evaluation process in place in the institution. Faculty within the Division will continually educate and coach the fellow’s competence in patient care, medical and surgical knowledge, practice based learning and improvement, interpersonal and communication skills, professionalism, and systems-based practice. In addition to satisfying the above requirements, the fellow is also expected to keep a detailed surgical log which will be submitted to the ASTS upon completion of training.

At the conclusion of the training program, the fellow should be able to practice independently in the field of solid organ transplantation. A certificate of training will be provided by the institution; a separate certificate will be issued by the ASTS.

Candidates for the fellowship program must have satisfactorily completed a residency which satisfies the educational requirements for certification by the American Board of Surgery or foreign equivalency.

Application Information

For an application or more information on the Transplantation Training Program, contact the address below. Return the completed application to the same address. Selected applicants will be invited for a personal interview.

For more information, contact:
Mitchell L. Henry, M.D.
Program Director
Division of Transplantation
395 West 12th Avenue, First Floor
Columbus, OH 43210-1267
Phone: (614) 293-4380
Fax: (614) 293-4541
Vascular Surgery

Curriculum
Our curriculum provides advanced clinical training in all aspects of vascular surgery and enables the resident to acquire an advanced body of knowledge and skill in the management of vascular surgical patients in order to assume a leadership role in teaching and in research in vascular surgery.

- Acquire in-depth diagnostic and therapeutic skills through extensive exposure to patients who present with a broad spectrum of common and complex vascular disorders;
- Participate and direct the preoperative assessment, operative management, and postoperative care;
- Gain experience in the non-invasive laboratory and imaging studies;
- Perform diagnostic arteriography;
- Perform a variety of peripheral interventions;
- Gain proficiency with intravascular ultrasound for diagnostic and therapeutic procedures;
- Train and become proficient in all vascular surgery procedures;
- Become proficient in the repair of abdominal and thoracic aneurysm using a variety of devices;
- Master the ethical, economic, and legal issues as they pertain to Vascular Surgery;
- Actively pursue research with the goal of presentation at regional, national or international conferences;
- Residents are required to take the Vascular Surgery In-Training Exam which is given annually.

Facilities
The Vascular Surgery unit is located at The Ohio State University Wexner Medical Center at the Ross Heart Hospital, a 150 bed, state-of-the-art facility that houses the 30 bed vascular unit. Vascular patients are admitted to the 5th floor vascular unit with overflow into the other floors of the Ross and University Hospitals. Access to angiographic equipment is available in both the cardiac catheterization lab and operating rooms of the Ross Heart Hospital. Outpatient clinic facilities are located in the Ross Heart Hospital and our Knightsbridge vascular clinic. The vascular resident is given the opportunity for clinical and/or surgical experience daily with individual faculty. Vascular Laboratory facilities are available in the Ross Heart Hospital and our Knightsbridge office and opportunities are ample for the vascular resident to receive hands on experience in performing the testing, interpretation and receiving instruction from the Director of the Vascular Lab. A vascular surgery service and limb salvage clinic recently opened at OSU Hospital East.

Research
The Division of Vascular Diseases and Surgery believes in the emphasis of an academic tradition at OSU along with research learning opportunities. We have studies on clinical outcomes, basic and translational stroke mechanisms, stem cell therapy for limb ischemia, retrospective reviews and several multi-center endovascular research trials such as the CVRx Barostim Hypertension study and carotid, thoracic and abdominal aortic aneurysm stents.

Application Information
For an application or more information on the Vascular Surgery Training Program, contact the address below. The division participates in the Electronic Residency Application Service (ERAS) of the National Resident Matching Program. Selected applicants will be invited for a personal interview.

Applicants to the 2014 Vascular Surgery QE and thereafter will be required to possess the Registered Physician Vascular Interpretation (RPVI®) credential. This credential is obtained by successfully completing the Physicians Vascular Interpretation Examination, which evaluates knowledge and skills commonly used in a vascular laboratory setting.

For more information, contact:
Patrick S. Vaccaro, M.D., Program Director
Division of Vascular Diseases and Surgery
E-mail: patrick.vaccaro@osumc.edu

Dawn M. Sagle, Program Coordinator
701 Prior Hall
376 West 10th Avenue
Columbus, OH 43210
Phone: (614) 293-8536 or (614) 293-5136
Fax: (614) 293-8902
E-mail: dawn.sagle@osumc.edu
Quality of Life

One of the most vital and livable cities in the United States and one of the fastest-growing metropolitan areas in the Midwest, Columbus is Ohio’s state capital, its largest city, and the 15th largest city in the nation.

Home to 16 colleges and universities, Columbus is a youthful and educated community known for economic prosperity and stability. Columbus offers the advantages of a big city, including first-rate shopping, restaurants, entertainment, and recreational activities. A lively arts scene includes a symphony orchestra, art museums, and ballet, opera, and theater companies. For sports fans, Columbus has major league hockey and soccer teams and Big Ten football and basketball. All of these make Columbus an exciting and satisfying place to live and work.

Along with the advantages of a big city, Columbus provides the quality of life of a small town and a great place to raise a family. Safe, affordable housing can be found within 10 to 20 minutes of The Ohio State University Wexner Medical Center.

Columbus Internet Sites
http://www.columbus.org
http://www.experiencecolumbus.com

The Ohio State University Wexner Medical Center Expansion

A $1 billion construction project including a new James Cancer Hospital and Solove Research Institute and Medical Center expansion project for The Ohio State University will transform the Wexner Medical Center’s central campus. A centralized single tower will house the new Arthur G. James Cancer Hospital and Richard J. Solove Research Institute, along with a new critical care building and integrated spaces for research, education and patient care.

The expansion, opening late 2014, will allow the Medical Center to serve 310,000 additional patients annually, and advance the Medical Center’s education and research programs and improve patient care.

The goals of this project include; 1) supporting new, high-quality, patient-centric, personalized medicine – which has the potential to make health care more affordable and accessible for everyone, 2) enable the University to continue to attract and retain leading doctors and scientists as well as to compete for research funding from the National Institutes of Health and other sources, and 3) to give scientists, researchers and clinicians the environment they need to collaborate and solve critical and complex health-related issues impacting our nation.
Directory

Cardiac Surgery
(614) 293-0333

General Surgery
(614) 293-8703

Minimally Invasive Surgery
(614) 293-7399

Pediatric Surgery
(614) 722-3912

Pediatric Surgical Critical Care
(614) 722-3911

Surgical Critical Care
(614) 293-1830

Surgical Oncology
(614) 293-4583

Thoracic Surgery
(614) 293-0333

Transplantation
(614) 293-4380

Vascular Surgery
(614) 293-8536 or 293-5136

Web Site
www.surgery.osu.edu