OUR MISSION

To graduate phenomenal clinicians who are self-regulated learners, are thoughtful, curious and happy, and aspire to be leaders in academic medicine and in the community.

OUR VALUES


A MESSAGE FROM OUR CHAIR

It is my pleasure to welcome you to our Department of Emergency Medicine’s Residency Program at The Ohio State University and Ohio State Wexner Medical Center. Having been part of this program for the past 25 years, I have had the opportunity to see it grow from its infancy to one of the strongest programs in the country. As chair of the department, I am excited about the innovation, energy and devotion of the residency leadership under the direction of Sorabh Khandelwal, MD; Andrew King, MD; Geremiha Emerson, MD; and Simiao Li-Sauernwine, MD. The residency program continues to grow and mature, providing our resident graduates with outstanding career opportunities in academia and community medicine. The residency is located within a strong academic department with nearly 60 faculty members who have a wealth of experience in clinical medicine, education and research. Enriching our EM residency is our EM/IM residency with our collaborative partner, Internal Medicine.

Our recently opened new Emergency Department, with nearly 110 beds, has doubled the size of our ED and includes some innovative new care models, including oncologic emergencies, geriatric emergency care and observation medicine. We seek to train the Emergency Medicine leaders of tomorrow and welcome you to Ohio State. We are dedicated and proud to provide the best possible patient care, while respecting the individual’s background and needs. As a department, we continue to aspire to remain one of the top academic departments in the country and see our residency as one of the crown jewels in our department.

Mark Angelos, MD
Professor and Chair
Department of Emergency Medicine
The Ohio State University Wexner Medical Center
WELCOME FROM THE VICE CHAIR OF EDUCATION

Having held the position of Emergency Medicine residency director and now as the Emergency Medicine/Internal Medicine residency director and Vice Chair of Education, I have the privilege of overseeing our department’s education mission. From our roots as one of the first academic departments of Emergency Medicine and one of the earliest residency training programs, our department now includes a categorical EM residency program with 16 residents per year, an EM/IM residency program and multiple fellowship training opportunities. We are also an Operational Aerospace Medicine Collaborative Program for the United States Air Force, which grants us two additional complements for our categorical residency program. Our goal for residency education is simply to be one of the top programs in the country and to train the future leaders and scholars of Emergency Medicine. Our graduates will impact and influence our field at every level. We intend to accomplish these goals through four important areas of focus:

A Culture of Education, Innovation and Excellence
Targeted Coaching Sessions, a resident-focused coaching program, and wellness initiatives are a small sample of some of our innovative ingredients and our department’s focus on educational excellence. Looking toward the future, we have implemented career development tracks with integrated leadership development. Similarly, we are working on new technology initiatives to further enhance our residents’ educational experience.

Curriculum Development and Innovation
We have extrapolated from the best practices of adult learning theory and the medical education literature to blaze new trails and develop an innovative curriculum for our residency training programs. Our curriculum is designed to maximize resident education and achieve expertise and excellence through self-directed learning augmented by high-quality didactics.

Lead, Contribute and Influence by Example
Attend our specialty’s national meeting and you are likely to experience the impact of our faculty, our residency alumni and our current residents.

Win with People
At Ohio State, we believe our people — faculty, residents and staff — are one of our most valuable resources. Imagine a department of over 50 faculty members, many with national reputations, committed to your educational development. Our faculty offers a wealth of varied experience and interests. Whatever your future career intentions, we likely have someone who can mentor you and share the wisdom they’ve gained through time and practice. Our faculty will become your leaders, mentors and colleagues.

Ohio State features a culture of innovation and excellence, an expertise in curricula design, a department with a national reputation and people who foster an educational work environment.

Daniel Martin, MD, MBA
Professor and Vice Chair of Education
Department of Emergency Medicine
The Ohio State University Wexner Medical Center

“The last three years have allowed me to develop into the physician that I have desired to be both inside and outside of the emergency department. Few programs can match the variety of experiences across six different hospitals and varied patient populations. The diversity of resources within the faculty, staff and residents allows for exposure to many facets of medicine and creates a network of support throughout training and beyond. There is enough structure to ensure learning the basics well, and ample opportunities for self-investment and discovery to really define oneself as a physician after residency in areas such as research, advocacy or education. Whether resuscitating a medical patient with undifferentiated shock or a polytrauma patient, residents are well prepared to care for critically ill patients across the country and world.”

– Caitlin Rublee, MD, MPH alumna, 2019
Choosing the right emergency medicine training program is one of the most important decisions you will make. Our program offers a comprehensive education within a nurturing environment. Through our resident selection process, we look for highly motivated candidates who will become leaders in emergency medicine.

Our residents learn from a diverse group of faculty educators, many of whom have received local and national awards for research, clinical care and education. Significant time and resources have gone into producing an optimal learning environment. We have built our conferences around sound educational principles. We have also introduced a coaching program to help motivate residents to reach their maximum potential.

The primary mode of information sharing is through small-group sessions led by faculty. There is a strong focus on improving clinical reasoning skills. Integrated in this learning experience are high-fidelity simulation exercises and procedural training sessions that occur as part of our conference schedule. There are joint conferences with many departments, such as Cardiology, Internal Medicine, Psychiatry and Trauma Surgery, which enhances resident education.

Our residents will hone their skills in a new 106-bed ED complete with a state-of-the-art observation center and a comprehensive section devoted to the emergent care of cancer patients. Ohio State Wexner Medical Center serves as both a local hospital and a regional referral center; consequently, our residents are exposed to a wide variety of patient cases and a patient population with high acuity. Exposure to pediatrics is through our sister hospital, nationally renowned Nationwide Children’s Hospital, where our residents are supervised by board-certified pediatric emergency physicians. Our residents receive excellent training in trauma and critical care through experiences at Ohio State and our community partners.

Our Department of Emergency Medicine has gained international acclaim for scientific research. Faculty research interests are varied and include EMS, ultrasound, education, infectious disease, clinical operations and geniatrics.

Our program, through the comprehensive and individualized training offered, hopes to graduate emergency physicians with a strong personal identity who are self-directed lifelong learners, who are resilient and thoughtful, who are excellent clinicians with advanced clinical reasoning skills, and most importantly, who are committed to making a difference in the world.

Sorabh Khandelwal, MD
The Samuel J. Kiehl III, MD, Professor in Emergency Medicine
Residency Program Director
Department of Emergency Medicine
The Ohio State University Wexner Medical Center

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The Ohio State University Wexner Medical Center-affiliated Emergency Medicine Residency is a three-year program (PGY 1, 2, 3) designed to provide education and experience in the clinical, educational, administrative and research aspects of emergency medicine and its allied fields.

The clinical program is the cooperative endeavor of Ohio State Wexner Medical Center, Ohio State East Hospital and Nationwide Children’s Hospital (NCH).

The Department of Emergency Medicine has full departmental status within The Ohio State University College of Medicine, and many of our faculty serve in administrative roles within the hospital and the College of Medicine.

The Ohio State University Wexner Medical Center and the Department of Emergency Medicine are located on a large unified university campus with outstanding academic and cultural environments. The size and resources in our Emergency Department at the main campus are rapidly expanding. Our new ED features oncology, critical care, hyperbaric medicine, trauma resuscitation and imaging core pods.

The new ED provides an exceptional setting for delivering outstanding care and for promoting cutting-edge education for residents and students alike.

We’ve also been designated by the American College of Emergency Physicians as a Level 1 Geriatric Emergency Department, providing the most comprehensive care to vulnerable older adults in the Emergency Department.

More than 200,000 patients are collectively treated at The Ohio State University Wexner Medical Center and Nationwide Children’s Hospital Emergency Departments. Each of the sites provides care to a vast number of critically ill medical and surgical patients.

Our other clinical sites are large, private local hospitals with numerous residency training programs, subspecialty support and a strong interest in clinical education.
First Graduate Year
During the first year of the program, the resident will gain experience in a variety of disciplines relevant to emergency medicine. The experience in the management of pediatric emergencies is particularly strong, as are the core experiences in cardiology, anesthesia, obstetrics, orthopedic, and medical and neurosurgical critical care. Residents will complete an immersive ultrasound experience. Toxicology is taught by our faculty in conjunction with clinical experience at the Central Ohio Poison Control Center.

Second Graduate Year
During the second year, emphasis is placed on emergency medicine. This time focuses on development of progressive autonomy in patient management and development of teaching skills. In addition, the resident obtains experience in a variety of subspecialties, including trauma. The resident gains further experience and expertise in performing procedures such as placement of central lines, airway management and emergency ultrasound.

The Center for EMS offers exposure to prehospital care and experience in medical education.

Third Graduate Year
The third year of the program provides the senior resident with the opportunity to accept responsibility for managing many patients simultaneously, while supervising and teaching junior-level house officers and students in the emergency departments. This graded responsibility helps the senior residents gain independence and expertise in managing the department.

Numerous electives are available to residents to enhance their education. Although unlimited possibilities exist, one popular elective is Community Emergency Medicine in Hawaii. The third-year resident can also participate in an immersive research experience during this time.

EM PROGRAM CURRICULUM

PGY-1 Curriculum (13 blocks)

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THE OHIO STATE UNIVERSITY

CLINICAL SKILLS EDUCATION AND ASSESSMENT CENTER

The changing nature of medical practice and the national demand for accountability in medical education highlight the need for a leading-edge clinical skills center. National accrediting bodies are challenging medical education institutions to demonstrate that medical students and residents possess the requisite knowledge, skills and attitudes essential to the practice of medicine. The Clinical Skills Education and Assessment Center (CSEAC) at Ohio State Wexner Medical Center is a state-of-the-art training center simulating actual patient care experiences. The facility features patient room encounters, patient models, standardized patients, high-tech patient simulators and electronic monitoring stations. ICU, ED and OR rooms are offered, as well as dedicated space for ultrasound training and hands-on procedural training. The center provides exciting opportunities for comprehensive interdisciplinary education. We anticipate continued acquisition of high-fidelity simulators to meet a broad range of educational needs.

RESIDENT CONFERENCES

Emergency Medicine conferences take place weekly every Wednesday morning and include four to five hours of small-group discussions, morbidity and mortality sessions focusing on cognitive errors, simulation and procedure sessions, interactive lectures and case conferences. The format of this educational setting is specifically designed to be innovative and interactive.

Emergency Medicine conferences are attended by education faculty and are considered protected times for residents working in the Emergency Department and nearly all off-service rotations. Conferences promote self-directed learning using a "flipped classroom" model. In preparation for the weekly small-group discussions, residents review various educational resources pertaining to the topics being covered. Small-group sessions, which are evidence-based, are led by Emergency Medicine faculty. Teaching faculty strive to maximize the use of technology in both the clinical and didactic settings. Asynchronous learning opportunities are also present, and a question bank is provided to each resident.

Emergency Medicine residents participate in weekly simulation and procedural sessions to practice skills pertinent to emergency medicine processes and procedures.

As part of the curriculum, visiting professors of national prominence are invited to share their expertise in specific areas of Emergency Medicine.

During the first year of residency, additional lecture sessions are scheduled during the month of July to provide an overview of emergency medicine and an orientation to the curriculum. At Ohio State, emphasis is placed on active learning, and engaging, thought-provoking educational formats.

“Our partnership with CSEAC allows for comprehensive and innovative emergency medicine simulation curriculum. We focus on refining leadership, communication, situational awareness and crisis resource management skills. From disaster preparedness to wilderness medicine day, simulation competitions to multidisciplinary in situ scenarios, we prioritize providing our residents with the tools they need to succeed.”

– Jennifer Yee, DO
Emergency Medicine Simulation Director

“...
PEDIATRIC EMERGENCY MEDICINE
Nationwide Children’s Hospital is one of the largest children’s hospitals in the country and the pediatric tertiary referral center of central Ohio. It offers multiple subspecialty training programs and expertise in a variety of pediatric disciplines, enhancing resident education. Nationwide Children’s Hospital features brand-new facilities, including a 62-bed Emergency Department. It is part of a tertiary care pediatric center and a Level I Trauma Center. This ED has an annual census of more than 75,000 patients.

TRAUMA SERVICES
Ohio State Wexner Medical Center and Nationwide Children’s Hospital both have active trauma services with Level I Trauma Center designations. University Hospital East has a Level III Trauma Center designation. Emergency Medicine residents are an integral part of the trauma team in all trauma resuscitations.

HAWAII
A one-block exposure to Community Emergency Medicine is offered at Kaiser Permanente Moanalua Medical Center in Honolulu or Hawaii Pacific Health’s Pali Momi Medical Center.

ULTRASOUND
The Ohio State University Department of Emergency Medicine has a nationally recognized ultrasound program, and ultrasound has been part of our residency for more than 15 years. The program has an active ultrasound fellowship and a wonderful relationship and budding fellowship with the Pediatric Emergency Medicine program at Nationwide Children’s Hospital. As leaders in ultrasound education, our faculty lecture internationally and are highly involved in national ultrasound organizations.

With the goal of creating leaders in the field, all residents will receive cutting-edge education in emergency point-of-care ultrasound, spending six weeks during residency on ultrasound rotations, with the option of more time as an elective. In addition to the core curricular experience, nearly a third of our residents opt into the ultrasound track, providing a mini-fellowship experience with teaching time, advanced scans and extra research opportunities. Residents may also elect to gain fellowship-level education and mentorship through an advanced ultrasound track program.

“My only goals throughout the interview season were to find programs with the most comprehensive training and those with the best, most relatable people. Ohio State was the rare program that featured both. Since arriving, I’ve been surrounded by talented colleagues who have become lifelong friends, engaged faculty deeply invested in my personal development and endless opportunities to pursue every interest I have, either personal or professional. Ohio State has prepared me to handle anything emergency medicine can bring my way while also supporting my passion to pursue career opportunities in sports medicine.”

– Ryan McGrath, MD chief resident
EMERGENCY MEDICAL SERVICE (EMS) EXPERIENCE

Prehospital care is emphasized throughout the residency program. In addition to accompanying paramedic teams on emergency calls, residents will be directly involved in the planning and operation of the EMS systems.

Since 2004, the Center for EMS at The Ohio State University Wexner Medical Center has been dedicated to improving outcomes for cardiac arrest, trauma and other patients in our community. A cooperative effort between the Department of Emergency Medicine and the Center for EMS (CEMS) at The Ohio State Wexner Medical Center seeks to provide an educational and research resource to the central Ohio EMS community. By uniting the efforts of the prehospital provider with the hospital-based team, the CEMS is dedicated to providing everyone in the community the best opportunity for survival and improved quality of life.

MedFlight is the critical care transport service serving central Ohio and operated by Ohio State Wexner Medical Center and OhioHealth. Online medical control for the helicopter and mobile ICU is provided by the Emergency Department at Ohio State. Residents may also elect to participate in patient transports with the crew of MedFlight and will participate in physician medical direction of the program.

NATIONAL CONFERENCES

The residency provides funds and time off annually for the PGY-1 and PGY-3 classes to attend a conference. This conference time has proven to be both educational and fun. Many residents value the bonding experience with co-residents and faculty, the dedicated educational experience and the opportunity to become involved in emergency medicine at a regional and national level. Currently, the PGY-1 class attends the Society for Academic Emergency Management annual meeting, and the PGY-3 class attends the American Society of Emergency Physicians Scientific Assembly. The department will also support residents who have original research accepted for presentation and those serving on national committees.

RESEARCH AND SCHOLARLY ACTIVITY

Residents are required to participate in at least one scholarly activity during the course of their training. This may be a basic science project, a clinical or epidemiological study, a case report or a collective clinical review of publishable quality. One or two blocks of elective time may also be used to supplement this experience. The purpose of the requirement is to introduce the resident to the critical evaluation of biomedical literature and research methodology. The Emergency Medicine faculty are active in all facets of research and scholarly activity, and serve to guide residents through this requirement.

For basic science research projects, the faculty use dedicated research labs and are actively involved in interdisciplinary research within the university. In addition, several ongoing prehospital and Emergency Department clinical research projects provide an opportunity for residents to participate in robust, nationally recognized clinical studies. Residents are encouraged to publish and present at regional or national meetings during their training. Emergency Medicine residents gain an understanding of evidence-based medicine principles, and learn to critically review literature under the guidance of our research faculty.

RESEARCH 2010-2018

Ohio State ranked #15 among departments of EM in NIH funding in 2018.

Total medical center funding ........................................ $496 million annually

Department of EM external grant funding FY19 .............. $1.5 million

Department of EM NIH funding FY18 .................. $11 million (active awards include 2-NIH R01s, 1-K23 and 1-U01)

Peer-reviewed publications ............................................... 434

Department research areas: resuscitation, cardiovascula

rer genetics, infectious diseases, neurologic emergen
ces, acute lung injury/critical care, medical education, simulated

Department of Emergency Medicine | 17
A DIVERSE AND SUPPORTIVE LEARNING ENVIRONMENT

The Ohio State University Medical Center, and in particular the Department of Emergency Medicine, recognizes and celebrates the importance of diversity. We strive to support a diverse, talented workforce that is inclusive of all individuals, regardless of ancestry, ethnicity, sex, gender identity, sexual orientation or disability. We recognize and celebrate the opportunity to benefit from broad perspectives, characteristics and life experiences, and we strive to create working and learning environments where we will benefit and thrive from our differences.

The Ohio State University Wexner Medical Center Office of Diversity and Inclusion (ODI), led by Leon McDougle, MD, MPH, works to create a thriving culture of inclusion, diversity and engagement within the medical center, across the university campus and across the country. The programs and initiatives driven by the ODI support and foster curricular innovations and supportive learning environments, as well as community service and engagement. The ODI also sponsors career development initiatives for underrepresented minority medical students, supports visiting rotations and offers a second-look weekend for interested resident candidates.

We recognize that we cannot promote diversity without employing a diverse group of talented providers. Within the Department of Emergency Medicine, 29 of our 66 attending providers are women or from groups underrepresented in medicine. By using a holistic application review process for our program, we have been fortunate to recruit an amazing group of talented residents from a broad range of backgrounds. Over the last three years, 49% of our graduating residents have been women, and 20% have been from groups underrepresented in medicine. The program has also established a peer mentorship program focused on supporting our underrepresented residents throughout their training. In addition, the department’s Gender Equity and Diversity Committee, led by Diane Gorgas, MD, and Nick Kman, MD, strive to support, promote and improve the diversity within our department and medical center.

RESIDENT HAPPINESS

We understand that work-life integration is essential to physician wellness. We are proud of our Kiehl Resident Wellness Endowment and curriculum, which has been highlighted by the National Academy of Medicine as a model for promoting resident wellness. We promote a healthy balance in all facets of well-being including occupational, emotional, physical, financial, intellectual and social wellness. The Wellness Program features year-round education in these areas and works to create events/programs to reinforce these domains. Some of our wellness offerings include:

- Longitudinal Wellness Curriculum
- Wellness Rewards Program
- Wellness Family Events
- Annual Wellness Retreats
- Faculty-Hosted Dinners
- All-Resident Outings
- Community-Supported Agriculture (fresh fruits and vegetables)
- Class Night-Out
- Parents’ Night Out
- Resident Advocates for Wellness Peer Support Program

Another unique component of our Kiehl Wellness Endowment is the Professional Development Grant, with recognition that occupational and intellectual wellness is an important component of career development and longevity. These grants support the professional and intellectual growth of resident physicians who demonstrate a passion for a specific academic niche and present a specific, well-developed plan for career development. In the year since its implementation, eight residents, have been awarded grants to pursue a wide array of opportunities including conferences (ACEP, MedEdELtE), training courses (MERC at CORD, MedEdELtE), and language immersion/international experiences.

Dr. Kiehl’s wishes, the annual funds from this endowed chair are used to enhance the resident curriculum of general wellness and individual growth and development.

Samuel Kiehl III, MD
Faculty Member

Long-standing faculty member Samuel Kiehl III, MD, made a generous $1 million gift to the Ohio State Department of Emergency Medicine residency program, which was matched by the department to create the Samuel J. Kiehl III, MD, Chair in Emergency Medicine endowment fund. In line with Dr. Kiehl’s wishes, the annual funds from this endowed chair are used to enhance the resident curriculum of general wellness and individual growth and development.

"Revealing Ohio State on my Match Day envelope, I knew an exciting and challenging path lay before me. Such sentiment remains after completion of my intern year of EM residency. The same familial spirit that I noticed permeating throughout the program on interview day continues on, as the faculty/staff serve as invaluable resources, and co-residents are now close friends. Ohio State offers the opportunity to care for diverse patient populations with complex medical problems. Whatever your EM career goals—from community, academic center or fellowship—Ohio State will prepare you to complete them and thrive from our differences.

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Another unique component of our Kiehl Wellness Endowment is the Professional Development Grant, with recognition that occupational and intellectual wellness is an important component of career development and longevity. These grants support the professional and intellectual growth of resident physicians who demonstrate a passion for a specific academic niche and present a specific, well-developed plan for career development. In the year since its implementation, eight residents, have been awarded grants to pursue a wide array of opportunities including conferences (ACEP, MedEdELtE), training courses (MERC at CORD, MedEdELtE), and language immersion/international experiences.

We understand that work-life integration is essential to physician wellness. We are proud of our Kiehl Resident Wellness Endowment and curriculum, which has been highlighted by the National Academy of Medicine as a model for promoting resident wellness. We promote a healthy balance in all facets of well-being including occupational, emotional, physical, financial, intellectual and social wellness. The Wellness Program features year-round education in these areas and works to create events/programs to reinforce these domains. Some of our wellness offerings include:

- Longitudinal Wellness Curriculum
- Wellness Rewards Program
- Wellness Family Events
- Annual Wellness Retreats
- Faculty-Hosted Dinners
- All-Resident Outings
- Community-Supported Agriculture (fresh fruits and vegetables)
- Class Night-Out
- Parents’ Night Out
- Resident Advocates for Wellness Peer Support Program

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