Education Institute

ADVANCING EDUCATION THROUGH TEAMWORK, SYNERGY, INNOVATION AND SERVICE
From Cleveland Clinic’s earliest days, education has been an integral element of our vision, emblazoned on the walls of the original Cleveland Clinic building: “Care of the sick, investigation of their problems, and further education of those who serve.”

Embodying that vision, the Education Institute has been a vital component of Cleveland Clinic since its founding in 1921, when new residents (then called fellows) came here to advance their medical and surgical training. In 1935, Cleveland Clinic established the Frank Bunts Education Institute, honoring one of Cleveland Clinic’s four founding physicians and firmly establishing Cleveland Clinic as a leader in medical and continuing education.

Today, our vision remains unchanged — teaching those who serve — but our scope has widened to encompass the entire Cleveland Clinic community of more than 40,000 staff and employees. The Education Institute, which comprises 15 centers on main campus and the Cleveland Clinic Florida Center for Education, collectively addresses many audiences including medical students, residents and fellows; professional colleagues within and outside Cleveland Clinic; our own staff and healthcare professionals; and our patients and their families.

Kindest regards,

James K. Stoller, MD, MS
Chairman, Education Institute
Jean Wall Bennett Professor of Medicine
Samson Global Leadership Endowed Chair
Departments in the Education Institute

**Main Campus**
- 15 departments
- 255 people
- 232 full-time employees

**Education Institute — Table of Organization**

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Cleveland Clinic Florida offers myriad educational activities for internal and external audiences including continuing medical education, graduate medical education, and education programs for international observers, medical students and patients. Cleveland Clinic Florida also houses a full-service library.

After adopting Cleveland Clinic’s main campus operating model, which is to align departments with institutes, Cleveland Clinic Florida aligned its educational activities with those of the Cleveland Clinic Education Institute in Cleveland. This close collaboration will enhance educational capabilities in both Florida and Cleveland.

Cleveland Clinic Florida is home to the largest GME program in Broward County, offering 10 ACGME-accredited programs, 12 programs outside ACGME oversight and one pharmacy residency program, together which serve 130 trainees. In 2011, Cleveland Clinic Florida welcomed 18 residents into its new General Surgery residency program, after being the first hospital in Broward County to be approved for such a training program.

Residents and fellows at Cleveland Clinic Florida exceed their peers with certifying examination passage rates that are the highest in the nation. Cleveland Clinic Florida’s Internal Medicine residents recently achieved a 100 percent Board pass rate, the highest in the state of Florida.

The continuing education department at Cleveland Clinic Florida is robust. As with the Center for Continuing Education in Cleveland, the department has been awarded the highest accreditation “with commendation” by the Accreditation Council for Continuing Medical Education. In 2012, the department increased its number of activities by 42 percent from the prior year to meet the growing demand for quality medical education.
Lerner College of Medicine

The Cleveland Clinic Lerner College of Medicine was founded in 2002 in collaboration with Case Western Reserve University School of Medicine. What’s special about the Lerner College? To begin with, the program is dedicated to training physician investigators and requires five (rather than four) years to accommodate the research portion and master’s level research thesis requirement of the curriculum.

The college also boasts:
- Small class size — 32 students in each class
- Full-tuition scholarships for all students
- Problem-based curriculum
- No lectures
- Solid medical humanities curriculum
- Portfolio-based assessment
- No grades or class ranking

Educators developed an interactive learning environment, integrating a curriculum centered around problem-based learning and an innovative portfolio-based system for measuring progress. Through this experience students become critical thinkers, collaborative professionals and experts in clinical practice.

Our graduates are highly competitive for academic residencies, matching at prestigious institutions such as Johns Hopkins, Duke, Yale, Massachusetts General, Brigham and Women’s, and Cleveland Clinic. We are confident they will go forward to influence the future of medical care and biomedical research.

In collaboration with Case Western Reserve University, plans are underway to build a state-of-the-art medical education building for students from Case medical school’s two tracks—the Lerner College of Medicine and the university program. The new building will serve as the home for the seminar, lecture and laboratory learning that typically takes place during the first two years of medical school.
Graduate Medical Education

Once students earn their medical degree, they enter an internship or residency where they train under supervision. Following a residency, some may choose to complete a fellowship in a medical subspecialty.

In 2012, Cleveland Clinic trained more than 1,500 residents and fellows, the largest number of trainees ever hosted by Cleveland Clinic. The advantages of training at Cleveland Clinic are many.

Our trainees:

• Have choices. Cleveland Clinic sponsors one of the nation’s largest graduate medical education programs, with approximately 65 residency programs, from internal medicine and neurosurgery to radiology and pathology, and 100 advanced fellowship programs.

• Gain a world of experience. Because Cleveland Clinic is one of the world’s largest, busiest healthcare centers, our trainees see rare, complex and unusual cases in addition to many routine medical problems. That’s more, our trainees care for patients from various cultural backgrounds.

• Learn at one of the nation’s best hospitals. Cleveland Clinic is consistently named as one of the nation’s top hospitals by U.S. News & World Report. Our heart and heart surgery program has been ranked No. 1 by U.S. News since 1995, and nine of our clinical specialties, all of which offer GME training, are ranked within the top three by U.S. News. What’s more, major medical breakthroughs over many decades have happened at Cleveland Clinic.

• Discover new things. All our trainees engage in cutting-edge research in basic sciences, clinical medicine and biomedical engineering alongside our scientists and clinical faculty.
The new 10,000-square-foot Multidisciplinary Simulation Center expansion positions Cleveland Clinic at the cutting-edge of simulation training. Simulated scenarios and high-tech simulation equipment (including human simulators that breathe, bleed, respond to drugs, and more) allow healthcare teams to gain hands-on experience in a low-stress and low-risk environment.

Physicians, nurses, residents and fellows, medical students and other health professionals use simulation to build skills around teamwork and communication — essential skills, particularly in critical situations. Simulated scenarios can be videotaped and reviewed later to learn what went right and which decisions can be improved.

Simulation is also used to advance laparoscopic, endoscopic, endovascular and robotic surgery skills. Physicians from around the world come to Cleveland Clinic to learn new techniques, often with a focus on a particular surgical discipline.

The Simulation Center also encompasses the following:

- Task-based simulation laboratory for practicing suturing and laparoscopic techniques
- Two-thousand-square-foot wet lab with eight fully functioning operating tables for surgeons to practice minimally invasive surgical techniques
- Short-term preceptorships, usually from one to six weeks, for physicians outside of Cleveland Clinic who desire one-on-one skill instruction, hands-on training and supervised direct patient care
- Pediatric difficult airway center for practicing airway and ventilator management
- Mobile (in situ) simulation that allows teams to train in their everyday work environment

When used as a complement to traditional medical learning, simulation helps improve patient safety and patient outcomes.
Cleveland Clinic has a long and successful history of developing executive leaders to help ensure a talent pipeline for organizational sustainability. Physicians and executive-level employees engage in leadership, business and communication courses designed to offer experience and practical solutions to leadership and management challenges.

Since its founding in 2006, the academy has provided more than 60 competency-based courses to more than 6,000 employees. In addition, the academy offers a variety of specialized leadership training and mentorship programs to physicians.

In 2011, Cleveland Clinic Academy expanded its reach outside of Cleveland Clinic, launching two executive education programs designed for outside healthcare executives: the Executive Visitors’ Program and Samson Global Leadership Academy. Attendees gain the skills they need to become effective leaders, learn how Cleveland Clinic operates and discover which strategies will work for their own organizations. Since the inception of these programs, Cleveland Clinic has welcomed 321 executives from 30 countries, evidence that quality healthcare leadership development is needed throughout the world.
This center oversees the production and publication of the Cleveland Clinic Journal of Medicine (CCJM). Published since 1931, CCJM is an indexed national peer-reviewed medical journal that delivers timely, practical clinical content, in print, to some 100,000 practicing physicians each month. Each year, the online version is read by more than 1.8 million people around the world. Focusing on internal medicine and cardiology, CCJM is one of the best-read journals among physicians in these clinical areas.

CCJM contains clinically targeted review articles and other continuing education-oriented content, making it a valuable source of CME for thousands of physicians each month. Special supplements offer in-depth looks at selected topics, often in specialties beyond internal medicine and cardiology. CCJM content is available free to all at ccjm.org.

This center also offers a medical writing program for Cleveland Clinic professionals who wish to improve their scholarly writing and presentation skills so they can better communicate scientific information via posters, papers, abstracts and more.
Continuing Education

Hundreds of thousands of medical professionals depend on the reliable and up-to-date continuing medical education (CME) programs Cleveland Clinic has provided for more than 75 years. Our continuing education program is certified by the Accreditation Council for Continuing Medical Education, and the center has been awarded the highest accreditation “with commendation.”

From primary care to medical specialties, courses are offered either live or online. Roughly 700 live CME courses are offered each year, many of which are meetings in countries outside the U.S. Live courses encourage audience interaction with hands-on workshops, real-time surgical demonstrations and frequent use of the Audience Response System.

The continuing education website (ccfcme.org) allows convenient access to more than 350 free online CME activities including webcasts, podcasts, online reviews and activities from the Cleveland Clinic Journal of Medicine. At the heart of the site is the Disease Management Project, a virtual medical textbook authored by more than 120 Cleveland Clinic physicians.

In 2012, Continuing Education offered 739 live courses and 381 online activities, and reached approximately 230,000 participants.
Each year, thousands of physicians, fellows, residents, medical students, administrators and alumni from around the world take advantage of educational opportunities organized by our Center for International Medical Education.

- The International Physician Observer Program allows international physicians to attend patient rounds, participate in teaching conferences, watch live surgeries and shadow Cleveland Clinic physicians. Every year, more than 700 observerships, which can last for many weeks, are arranged.

- The Preceptorship Program is tailored to the specific clinical and administrative interests of the practicing physician. Participants can experience one-on-one clinical and surgical observations, and examine best practices and operational strengths of Cleveland Clinic.

The center also arranges for Cleveland Clinic physicians to travel abroad to share innovations in medicine and surgery with colleagues around the globe.
Health Sciences Education

Health science professionals have skills that are essential to patient care. Health science jobs range from high-touch, one-on-one patient care to high-tech, behind-the-scenes laboratory work. From physician assistants and ultrasound technologists to EMS professionals and physical therapists, these professionals comprise a large part of Cleveland Clinic’s workforce.

To ensure that students are well-prepared to care for patients, Cleveland Clinic offers many internal training programs as well as clinical experiences for health science students enrolled in academic institutions throughout Ohio and across the country.

In addition, to introduce health science career opportunities to younger students, this center presents the Adventures in Health Science and Math program to hundreds of middle school students at several Cleveland Metropolitan Schools — just one example of many health science education community outreach activities.

In 2012, the Cleveland Clinic health system provided nearly 2,000 clinical rotations for health science students.
Patients and the public rely on our Center for Consumer Health Information for credible health information — original content they create and that most often features Cleveland Clinic experts. Most people find Cleveland Clinic health information online at clevelandclinic.org/health, but information is also available in several other formats:

- Health information kiosks, located throughout Cleveland Clinic’s main campus, family health centers and regional hospitals, provide information about Cleveland Clinic programs and services, health information for patients and visitors, physician directories and more.

- The Patient and Family Health and Education Center fills requests for health information made in person and by mail, phone and email. Health educators conduct live text chats on weekdays. The center is located on Cleveland Clinic’s main campus and is open weekdays from 8 am to 5 pm.

- Free local Health Talks, featuring Cleveland Clinic physicians and other health professionals, are held every month at Cleveland Clinic’s main campus and at several suburban family health centers.

- Live WebChats are hosted by Cleveland Clinic experts.

- Cleveland Clinic’s Closed Circuit Television gives patients information about their condition and ways to care for themselves or family members.

In 2012, the center’s website recorded more than 17 million page views.

Educating the Cleveland Clinic Workforce

eLearning has become a key method for educating the Cleveland Clinic workforce to better meet the needs of our patients. Professionals with direct patient care engage in eLearning to keep up with clinical updates, and all Cleveland Clinic employees use eLearning for compliance-related training.

Professionals within the Center for Online Medical Education and Training (COMET) lead the design and development of eLearning modules using the latest technology and integrating best practices in adult learning theory. They work closely with subject matter experts to create high-quality, relevant learning experiences.

Current capabilities include designing eLearning portals for outside organizations, locally and across the globe, and delivering collaborative learning experiences — powered by Moodle via COMET.

The team also collaborates with Cleveland Clinic physicians and scientists to apply for educational grants and implement projects supported by these grants.

In 2012, COMET increased its production of Moodle courses five-fold compared to 2011.

In 2012, the center’s website recorded more than 17 million page views.
The Cleveland Clinic Alumni Library serves all Cleveland Clinic employees at Cleveland Clinic’s main campus and family health centers. The library offers access to the latest print and online resources, and employees can easily request articles and other materials online. The library also offers computers for research and quiet rooms for study.

Professional librarians hold workshops to help users conduct online research, and they teach information management skills to help users keep pace with the rapidly evolving medical literature.

Cleveland Clinic healthcare professionals use the library’s resources to enhance their medical knowledge, contribute to research and improve patient care.

Because Cleveland Clinic is a teaching hospital, our professionals need to know how to teach and assess adult learners, such as our medical students, residents and fellows. They need to know how to develop a teaching curriculum and how to evaluate teaching programs. The professionals within the Center for Medical Education Research & Development serve as a resource for the professionals within Cleveland Clinic who teach.

The center offers classes on topics such as motivating adult learners, statistical science and modeling, and giving quality feedback. Medical education fellowships are offered to selected Cleveland Clinic faculty to allow them to enhance their educational expertise. In collaboration with the College of Education and Human Services at Cleveland State University, the center also offers a new master’s degree in health professions education.

During the 2011-12 academic year, 45 faculty development sessions were conducted, and 24 faculty members were observed while teaching in order to receive constructive feedback.
Medical Art & Photography
Supporting Cleveland Clinic Educational Efforts

Professionals within Medical Art & Photography help support Cleveland Clinic educational activities by offering graphic design, medical illustration, digital imaging and photography services to Cleveland Clinic colleagues.

• Graphic design experts help colleagues put their best foot forward with charts, graphs, diagrams, scientific posters, brochures, banners and much more.
• Medical illustrators create anatomical, surgical and technical illustrations as well as 3-D animations.
• Photographic digital technicians offer image enhancement, scanning and printing services.
• Photographers capture the world-class care and innovation found at Cleveland Clinic as well as events.

Medical and Surgery Departments in the Education Institute
Supporting the Education of Residents and Fellows

These departments provide global oversight, direction and coordination for all medical and surgical residency and fellowship programs, which number more than 150, within Cleveland Clinic.

The professionals within these departments work closely with the many residency and fellowship coordinators to help ensure training program quality, to coordinate programs and to ensure compliance with external regulatory requirements.

In 2012, the center serviced 14,428 requests, up from 13,348 in 2011, and generated 528,375 pieces of work.

Philanthropic Giving

The Education Institute welcomes donations to advance its mission of educating those who serve. Individuals, families and foundations that believe in the value of education are making a difference in the future of patient care with their generosity. To learn how you can help, please contact Amy Kubacki at 216.636.5024 or at kubacka@ccf.org.