

# gme

## Graduate Medical Education

AT THE UNIVERSITY OF MASSACHUSETTS MEDICAL SCHOOL

### Message from the Associate Dean

*Many describe their resident years as the highlight of their professional careers.*

*Despite its challenges, residency allows a new doctor to not only provide advanced medical care, but also to act as both teacher and learner in a broad array of clinical and conference settings.*

*In the Office of Graduate Medical Education (OGME) at the University of Massachusetts Medical School (UMMS), we advocate for you—our residents and fellows—providing the foundation necessary to maximize your career potential and fulfill your personal and professional goals in a supportive environment. We also challenge ourselves to meet your expectations for high quality learning experiences by ensuring a proper balance of education and patient care.*

*Although grounded in primary care education, UMMS offers well-balanced residency programs in all specialties. Here, you will complete the requirements for specialty board certification, develop professionally for careers in a changing health care delivery environment and provide progressively responsible clinical care under expert faculty supervision. Abundant basic science and clinical research opportunities are also available.*

*UMMS has attained a distinguished record in its relatively short history: the School of Medicine is ranked fourth nationally in primary care among 125 fully accredited medical schools and 19 schools of osteopathic medicine by U.S. News & World Report ("America's Best Graduate Schools," 2007); the research enterprise attracts over \$174 million in funding; and our clinical partner, UMass Memorial Health Care, is the region's center for tertiary and quaternary care, providing a network of community health centers and primary care practices.*

*I invite you to learn more about UMMS and our residency programs through this brochure, as well as contacting us by phone or via the Web at <http://www.umassmed.edu>. Completing your residency is a challenging and rewarding experience. Let us share this time with you.*



Deborah M. DeMarco, MD

Associate Dean for Graduate Medical Education



GRADUATE MEDICAL EDUCATION (GME) at the University of Massachusetts Medical School (UMMS) consists of 45 accredited programs, from anesthesiology to vascular surgery; 526 residents and fellows; over 600 full-time and community-based faculty; an academic medical center; affiliated teaching hospitals and community health centers; and a growing number of private office and group practices. As a teaching institution, UMMS has received the highest approval rating from the Accreditation Council on Graduate Medical Education (ACGME).

#### UMMS Residency Programs

UMMS is committed to ensuring that all GME trainees receive the highest quality clinical education and obtain desired academic or practice positions upon graduation. Most recent graduates said that they would highly recommend their program to medical school seniors, and further stated that their program provided them with clinical and problem-solving skills necessary for independent practice. Over half of recent GME program graduates entered practice immediately following their residencies, mostly in Massachusetts and bordering states, while others entered competitive advanced training programs nationwide.

#### Primary Care

The majority of residents beginning their graduate medical education at UMMS enter one of the school's outstanding primary care programs: internal medicine, pediatrics, the combined Medicine-Pediatric Program or the state's first and largest Family Practice Residency Program. In addition, obstetrics & gynecology—which encompasses the spectrum from primary care initiatives in community health centers and high-risk pregnancy to

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reproductive endocrinology and gynecological surgery—offers excellent training in comprehensive women's health.

### **Neurology and Psychiatry**

Among the GME's strongest offerings are the UMMS programs in Neurology and Psychiatry, backed by nationally noted faculty with particular excellence in the neurology of aging, public sector psychiatry, forensic psychiatry and behavioral neuroscience. Programs of national distinction in child psychiatry, psychopharmacology, neuropsychiatric disabilities and neuropsychiatry are also available.

### **Medicine**

The Emergency Medicine Program is the oldest in New England, but provides outstanding training in a new, state-of-the-art facility. Building upon its broad faculty expertise and extensive community resources, the Department of Family Medicine & Community Health offers an excellent program in General Preventive Medicine with a track in Correctional Health. The Department of Medicine also offers an outstanding dermatology program and a full range of accredited medicine subspecialty fellowship programs.

### **Surgery**

The General Surgery Residency Program and several subspecialty programs—Plastic and Reconstructive Surgery, Critical Care Surgery and Vascular Surgery—provide comprehensive training in a tertiary care and trauma center, while ensuring continuity experience and exposure to other inpatient and ambulatory practice settings. The Endosurgery-Telemedicine Initiative, joined with other educational support services, is propelling UMMS into the forefront of surgical education by combining

the development of minimally invasive endosurgery with telecommunications to transfer real-time medical information between sites. And, few competing programs in New England can match the resources and results of the UMMS Orthopedic Surgery Program and its companion Orthopedics Sports Medicine and Orthopedics Hand Surgery Fellowships.

### **Diagnostic and Support Programs**

Diagnostic radiology, neuroradiology, vascular interventional radiology, clinical and anatomic pathology, cytopathology, hematopathology, surgical pathology, anesthesiology and critical care anesthesiology not only provide truly progressive clinical training opportunities for their own residents and fellows, but also contribute significantly to the teaching of all residents. These ACGME-approved programs are particularly mindful of the quality educational and career goals of UMMS physicians-in-training.

Detailed information about these and other UMMS GME programs can be obtained directly from the programs by calling the numbers listed on page 6 or visiting the UMMS Web site at <http://www.umassmed.edu>.

### **Office of Graduate Medical Education**

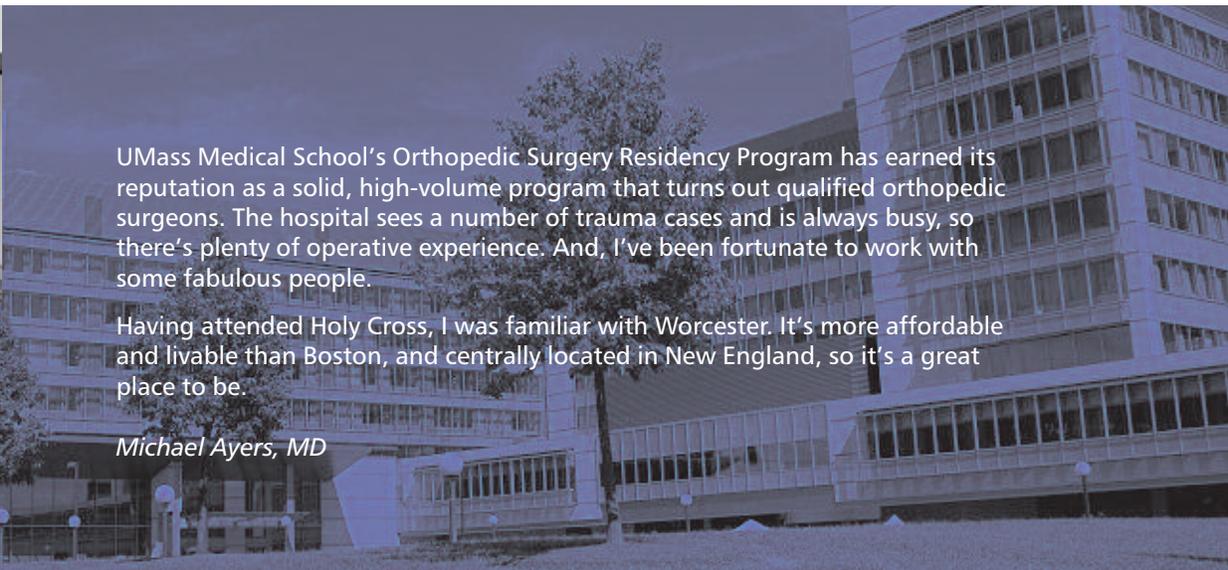
UMMS prides itself on its resident-friendly philosophy, made real through the direct services offered by the Office of Graduate Medical Education (OGME). The office reinforces the view that residency must be recognized as an educational endeavor rather than solely a provision of clinical service. OGME encourages communication among residents and representatives from the clinical system in response to resident concerns and advocates on behalf of residents and program directors.



UMass Medical School's Orthopedic Surgery Residency Program has earned its reputation as a solid, high-volume program that turns out qualified orthopedic surgeons. The hospital sees a number of trauma cases and is always busy, so there's plenty of operative experience. And, I've been fortunate to work with some fabulous people.

Having attended Holy Cross, I was familiar with Worcester. It's more affordable and livable than Boston, and centrally located in New England, so it's a great place to be.

*Michael Ayers, MD*



### UMass Medical School Campus Highlights

UMMS is one of five University of Massachusetts campuses and one of 13 institutions of higher learning in Greater Worcester. Encompassing the state's School of Medicine, Graduate School of Biomedical Sciences and Graduate School of Nursing, UMMS offers a unique advanced degree opportunity for residents—a master's of public health through its affiliation with the University of Massachusetts Amherst School of Public Health.

The UMMS campus functions as an integrated health sciences facility, housing the school's basic and clinical science departments and student laboratories. The institution continues to provide a high quality education by offering the latest technology in medical simulation training at the UMMS

Simulation Center. The center houses advanced medical simulation computer programs and several patient simulator mannequins, which emulate conditions ranging from heart diseases to child-birth. Through simulation training, residents may build skills and improve their ability to make effective decisions.

The campus' Lamar Soutter Library is designated as the New England Regional Medical Library in the National Network of Libraries of Medicine. The library is a leading source of biomedical information for residents, students, faculty, staff and the public.

Named for the founding dean of UMMS, the library offers modern facilities for conducting online computerized literature searches, computer-assisted instruction networks and audiovisual

### OGME Support Services

#### Relocation

The OGME offers guidance on housing availability, opportunities for spousal employment and child care options. Orientation and ongoing social events are also planned for residents and their spouses.

#### Financial guidance

UMMS provides a competitive stipend to residents, and the OGME offers educational programs and individual financial counseling on student loan deferment, consolidation and repayment options. Interest-free emergency loans are also available.

#### Program balance

UMMS strives to fund an adequate number of residency positions appropriate to clinical needs, allowing residents to work manageable shifts as part of their experience. An internal review process scrutinizes faculty supervision to guard against residents feeling compelled to assume clinical responsibilities greater than their competencies.

Communication among program directors emphasizes the need to balance workloads with educational opportunities and the well-being of residents.

#### Practice management

The OGME sponsors comprehensive practice management support for the transition from residency or fellowship into practice.

The office hosts hospital and department-wide conferences on topics related to relocation, evaluation and negotiation of employment opportunities. It also provides individual assistance to residents as needed.

#### Counseling

Developed by OGME and the UMMS Department of Psychiatry, the House Officer Counseling Program is designed to help residents cope with the rigors of the training process, primarily through ready, confidential and highly subsidized access to quality mental health services.

By alerting residents to the potential effects of stress and its warning signs, residents are encouraged to recognize problems if they occur and seek help in a timely fashion.

#### Resident benefits

Each UMMS resident receives an annual stipend, in accordance with the stipend schedule available July 1 of each year.

Residents receive the same benefit package as other UMMS professional employees. Massachusetts deducts only 1.45 percent for Social Security (FICA) Medicare contributions. Residents contribute to the State Retirement System (refundable when residents leave state service).

Residents may elect basic group health insurance benefits from a number of differ-

ent providers, including indemnity plans, preferred provider organizations or health maintenance organizations. UMMS pays 80 percent of the monthly premium as well as the premium for \$5,000 of term life insurance. It offers comprehensive dental insurance and portable long-term disability insurance coverage. Other benefits include tax-sheltered annuities, child care and dependent care assistance programs, and reduced premium homeowners and automobile insurance.

After six months of continuous full-time employment, residents, their spouses and children are eligible for tuition remission when enrolled in selected Massachusetts public colleges or universities. Full remission is offered when enrolled in a full-time day program, while 50 percent remission is offered to those enrolled in evening programs. UMMS also provides residents with occurrence medical malpractice coverage through a self-insured trust program. This insurance allows for extended employment opportunities (institution-sanctioned "moonlighting") in accordance with institutional guidelines and individual residency program policies.

Each resident receives three weeks of paid vacation yearly, 15 days of sick leave, and maternity and parental leave. Meals and sleeping quarters are provided when on call.



Having graduated from UMass Medical School, I was very familiar with its clinical environment. The faculty are very supportive, the atmosphere is welcoming and there's a real emphasis on educating the residents. I was also interested in primary care and knew of the Medical School's strength in this area.

When I completed my residency, I was also very impressed with the efficiency and support that I received from the Office of Graduate Medical Education. They not only provided me with the interviewing skills necessary to obtain a good position, but also took the time to go over the contract with me once I was accepted into a practice.

*Nicolette Fontaine, MD*



and microfilm materials. An extensive computer network provides e-mail and Internet access to all residents.

With the completion of the Aaron Lazare Medical Research Building in 2001, UMMS strengthened its commitment to expanding its research enterprise. The nine-story structure contains 360,000 square feet of laboratories, core facilities and office space, and houses some 100 UMMS faculty members conducting both clinical and basic research in the areas of molecular genetics, immunology and tissue engineering, among others.

The UMass Cancer Center, which bridges basic and clinical research and patient care, is contained within the Lazare Research Building. Staffed by a growing cadre of nationally recognized cancer specialists, the center unites National Institutes of Health and other funding with vital private philanthropy to implement investigator-initiated clinical trials. Major research projects are redefining prevention, diagnosis and treatment of breast, ovarian and uterine cancers; hematologic malignancies; gastrointestinal cancers; and genitourinary cancers.

The Irving S. and Betty Brudnick Neuropsychiatric Research Institute hosts faculty devoted to studying the biological causes, diagnoses and treatment of mental disorders. The Institute is situated near the Massachusetts Biotechnology Research Park, a leading national center for biotechnology research located adjacent to the UMMS campus. UMMS currently owns 83,000 square feet of the Biotech Park, which accommodates UMMS investigators, including scientists from the Worcester Foundation for Biomedical Research, an internationally renowned scientific organization that merged with the Medical School in 1997. Through this affiliation, UMMS acquired the Foundation's 80-acre, nine building campus in Shrewsbury, including the Hoagland-Pincus Conference Center, where the UMMS Continuing Education and Standardized Patient Program training labs are located.

UMass Medical School's research, education and public service missions are also strengthened by its Massachusetts Biologic Laboratories (MBL), which manufacture vaccines, and New England Newborn Screening Program (NENSP) in Jamaica Plain and the Eunice Kennedy Shriver Center in Waltham.



#### **UMass Memorial Health Care**

As the clinical partner of UMMS, UMass Memorial Health Care provides residents in all generalist and specialist programs attractive opportunities for supervised experiences in both tertiary and community practice. UMass Memorial Medical Center, the academic medical center of UMass Memorial Health Care, is the region's advanced tertiary care referral center and comprises three Worcester campuses—Memorial, University and Hahnemann—with some 800 in-patient beds and 40 operating rooms. The Medical Center's reputation is further enhanced through advanced laser technology, off-pump cardiac bypass surgery, minimally invasive surgical techniques, bone marrow and solid organ transplants, the region's most advanced and active cardiac catheterization labs and a sophisticated breast care center.

The Medical Center offers comprehensive and sophisticated technology and support services, providing the region with specialists acclaimed for their work in such areas as obstetrics and gynecology, cancer, cardiology, surgery, orthopedic care, endocrinology, neurology, psychiatry and trauma. These specialty services complement the outstanding primary care services that the system provides at its main campuses and through its community-based primary care network.

UMass Memorial Medical Center serves as the region's most comprehensive provider of emergency

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services in Central and Western Massachusetts. At its University campus, the Medical Center recently opened a new, three-story, 264,000-square-foot Emergency Department, called the Lakeside Expansion, featuring on-site MRI capabilities, advanced radiological services, new operating rooms, an additional surgical care unit, emergency mental health services and a Level I trauma center for children, teens and adults. The University Campus is also home to Life Flight, New England's first hospital-based air ambulance.

The Medical Center provides the region's only comprehensive pediatric services through the Children's Medical Center (CMC), offering specialists in every pediatric health field from psychiatry to surgery. The CMC includes the Center for Women and Children and the region's only Level III Newborn Intensive Care Unit on the Memorial Campus, and a pediatric intensive care unit and pediatric AIDS treatment program on the University Campus.

Patients requiring day surgical services and specialty care in the areas of dermatology, ophthalmology, cosmetic, and hand and upper extremities, are treated at the Hahnemann campus, which also houses a dialysis center and primary care physician practices.

### Teaching Affiliates

In addition to UMass Memorial, UMMS has major affiliations for education with St. Vincent Hospital at Worcester Medical Center, Caritas St. Elizabeth's Medical Center in Boston and Berkshire Medical Center in Pittsfield. Individual residency programs have affiliations with Milford Regional Medical Center, HealthAlliance in Fitchburg and Leominster, Bridgewater State Hospital, the Massachusetts Department of Correction, Worcester State Hospital, Westborough State Hospital and other hospitals. A number of community-based ambulatory teaching centers are also linked to UMMS. For example, the Department of Family Medicine & Community Health is affiliated with the Family Health Center of Worcester, the Hahnemann Family Health Center, the Regional Family Health Center in Barre and the CHC Family Health Center in Fitchburg. The Departments of Medicine and Pediatrics are also associated with the Tri-River Family Health Center in Uxbridge, and the Department of Pediatrics administers Webster's South County Pediatrics and clinical experiences in private practice settings at the Fallon Clinic, a group model HMO.

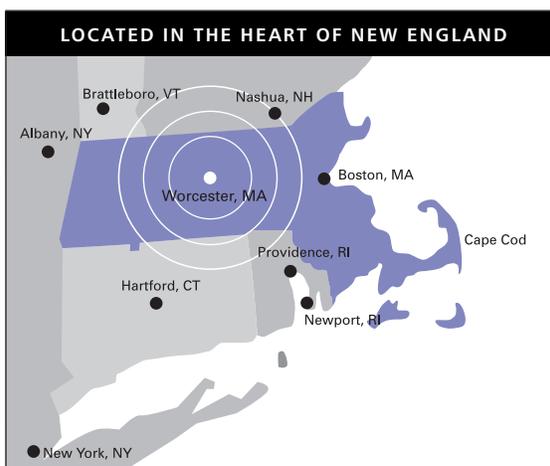
### Life in Worcester

Located in Central Massachusetts, approximately 45 miles west of Boston, Worcester is the third

largest city in New England. As the hub of economic activity in the area, Worcester and surrounding towns offer ample opportunities for spousal employment in various service industries, including health care, insurance, education, biotechnology and finance. The cost of living in Greater Worcester, particularly shopping and housing, is also reasonable compared to that of other Northeast cities.

For entertainment, Worcester boasts the historic and acoustically superior Mechanics Hall, site of classical music and opera performances, and the DCU Center, one of the country's most successful arenas for top-draw rock concerts, sports, including hockey, and family entertainment events. A wide variety of ethnic restaurants satisfy every taste, as do eclectic cafes and nightclubs featuring live music.

Among the city's treasures is the Worcester Art Museum, displaying world-class collections spanning 50 centuries; the Higgins Armory, the only museum in the Western Hemisphere to display such a variety of arms and armory; and the Ecotarium, a regional resource for learning about the natural world. For shopping, Worcester boasts numerous specialty shops and boutiques.



Worcester's central location also makes it ideal for visits to favorite New England attractions, including Cape Cod, a 90-minute drive southeast; Newport, Rhode Island, a 60-minute drive southeast; and Boston. For recreation, nearby Wachusett Mountain State Reservation offers hiking, biking, skiing and snowboarding for all abilities. The majestic mountains and pristine lakes of Maine, New Hampshire and Vermont are also nearby and accessible for day trips.

For more information on Worcester and surrounding towns visit:

- <http://www.ci.worcester.ma.us>
- <http://www.eworcester.com>
- <http://www.worcester.ma.us>

### Accredited Residency Programs

Anesthesiology.....	508-856-3821
Child Psychiatry.....	508-856-1256
Dental.....	508-334-7834
Dermatology.....	508-334-5971
Emergency Medicine.....	508-421-1417
Family Practice, Fitchburg.....	978-665-5925
Family Practice, Worcester.....	508-334-6111
Internal Medicine.....	508-856-2173
Medicine/Pediatrics.....	508-856-3590
Neurology.....	508-856-3083
Obstetrics & Gynecology.....	508-334-8459
Orthopedic Surgery.....	508-856-4262
Pathology/Clinical and Anatomical.....	508-793-6156
Pediatrics.....	508-856-3590
Plastic and Reconstructive Surgery.....	508-856-3261
Preventive Medicine.....	508-856-6163
Psychiatry.....	508-856-4087
Psychiatry/Neurology.....	508-856-4087
Radiology/Diagnostic.....	508-856-2783
Surgery/General.....	508-856-3772
Vascular Surgery.....	508-856-5599

### Accredited Fellowship Programs

Cardiovascular Medicine.....	508-856-3064
Cardiology/Interventional.....	508-856-3064
Clinical Cardiovascular Electrophysiology.....	508-856-3064
Critical Care Anesthesiology.....	508-856-3821
Critical Care Surgery.....	508-856-1168
Emergency Medicine/Toxicology.....	508-421-1417
Endocrinology and Diabetes.....	508-856-3536
Family Practice Sports Medicine.....	978-665-5925
Gastroenterology.....	508-334-3833
Hematology/Oncology.....	508-856-3903
Infectious Diseases.....	508-856-2456
Neonatal-Perinatal Medicine.....	508-334-6206
Nephrology/Renal.....	508-334-2052
Neurology/Clinical Neurophysiology.....	508-856-3083
Neuroradiology.....	508-856-5740
Orthopedics/Hand Surgery.....	508-856-4262
Orthopedics/Sports Medicine.....	508-856-4262
Pathology – Cytopathology.....	508-793-6156
Pathology – Hematopathology.....	508-793-6156
Pathology – Surgical Pathology.....	508-793-6156
Psychiatry/Forensic.....	508-856-3079
Pulmonary/Critical Care Medicine.....	508-856-3122
Radiology/Vascular Intervention.....	508-856-5740
Rheumatology/Immunology.....	508-856-6246

*Additional fellowship programs are offered by the departments of Anesthesiology, Emergency Medicine, Neurology, Obstetrics & Gynecology, Psychiatry, Radiology and Surgery*



#### For further information, contact:

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