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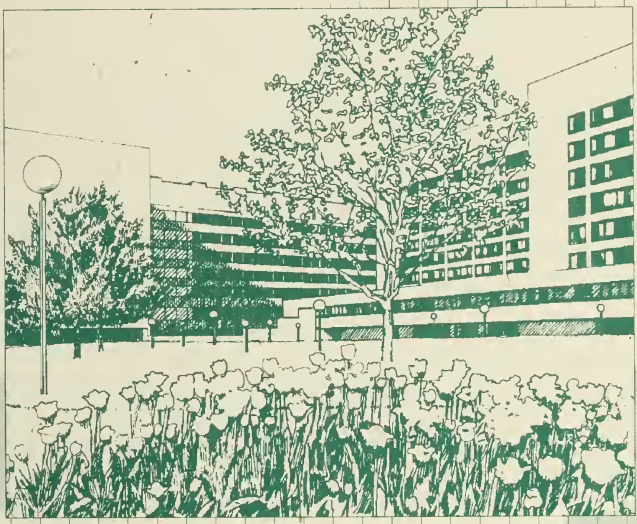
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COLLECTION

UMASS MEDICAL CENTER

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IN BRIEF

EXCELLENCE IN HEALTHCARE

Education • Service • Research

942/488

INTRODUCTION

By proclamation of the governor and an act of the legislature, the University of Massachusetts Medical Center (UMMC) was founded to meet the healthcare needs of Massachusetts residents. Its basic mission is *to serve the people of the commonwealth through excellence in healthcare education, service and research.*

UMMC is one of five University of Massachusetts campuses. Remarkable growth and achievements punctuate the short history of UMass Worcester, which is one of only 28 freestanding, university-based academic health sciences campuses in the United States. This complex institution includes a medical school, a 416-bed* advanced tertiary-care teaching hospital and its clinics, a graduate school of biomedical sciences, a graduate school of nursing, a program in molecular medicine and a cancer center. Its chief executive officer is the chancellor/dean, who reports to the president and Board of Trustees of the University.

UMass Hospital attracts patients from throughout New England and beyond. In Central Massachusetts, UMMC's visibility stems both from its international reputation in specialized patient care and research, and its role as one of the area's largest employers, with a workforce of more than 6,000.

Although only 5.3 percent of its \$466 million budget comes from state funding, UMMC contributes significantly to the economic well-being of the city and region, returning \$19 for every \$1 invested by the state. The Medical Center, which is awarded more than \$56 million annually in research funding, continues to be a catalyst for development of the adjacent Massachusetts Biotechnology Research Park.

*As of June 1993, the total includes 45 Worcester State Hospital beds contracted to UMass.

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Facts at a Glance

MILESTONES

- 1962 Legislation establishes University of Massachusetts Medical School
- 1965 Worcester is selected as site
-
- 1970 First medical students begin classes in Shaw Building
- 1973 Clinical- and basic-sciences building opens to house medical school
- 1974 First class is graduated: 16 MDs
- 1976 Hospital opens
- 1979 PhD program begins
-
- 1981 Hospital is designated commonwealth's first Level 1 trauma center
- 1982 New England Life Flight is established at hospital
- 1986 Graduate School of Nursing opens
- 1986 PhD program becomes Graduate School of Biomedical Sciences
-
- 1990 Program in Molecular Medicine opens at Two Biotech, Massachusetts Biotechnology Research Park
- 1991 Former Worcester City Hospital site becomes City Campus
- 1992 University of Massachusetts Foundation purchases Two Biotech
- 1993 Joseph T. Benedict Building opens, expanding space for outpatient services
- 1993 Tri-River Family Health Center is tripled in size and rededicated
- 1993 UMMC establishes Cancer Center
- 1994 Schools break ground for new Learning Center

EDUCATION 1993-1994

MEDICAL SCHOOL

- 411 MD students
- 14 MD/PhD students
- 1,638 alumni
- 692 faculty
- 1,055 voluntary faculty
- 456 residents and fellows in UMMC programs

GRADUATE SCHOOL OF BIOMEDICAL SCIENCES

- 97 PhD students
- 66 alumni
- 160 faculty (all GSBS faculty are members of the medical school faculty)

GRADUATE SCHOOL OF NURSING

- 72 MS students
- 180 alumni
- 11 faculty

ALLIED HEALTH PROGRAMS

- 500 students (estimate)

CONTINUING EDUCATION

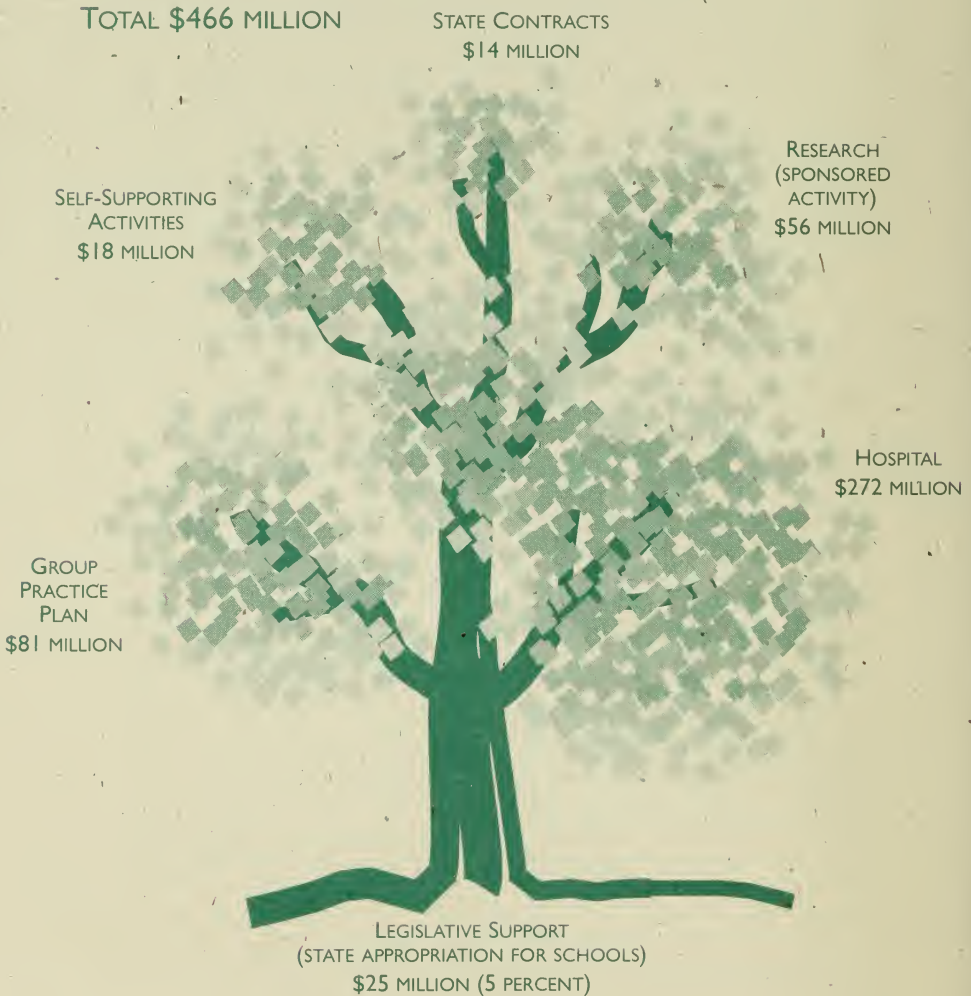
- 8,500 registrations (estimate)

PATIENT SERVICES FY 93 figures, rounded off

- 15,600 Annual hospital admissions
- 271,500 Outpatient clinic visits (excluding ancillary)
- 47,700 Emergency Department visits
- 38,000 Visits to Tri-River Family Health Center (division of UMMC, in Uxbridge)
- 7,800 Inpatient surgical cases
- 5,600 Day surgery cases
- 1,000 New England Life Flight missions
- 1,400 Trauma patients treated

FUNDING AND REVENUE

UMMC's funding and revenue covers the operating costs of all its components. The hospital receives no state appropriation. State contracts support public service activity, including the provision of mental health and pediatric services for those who cannot afford private care. Examples of self-supporting activities are parking trust fund, continuing education, and student fees and financial aid.



FY 94 (July 1, 1993 to June 30, 1994) projected figures, rounded off

Education

FACULTY AND STUDENT BODY

Full-time faculty members of the University of Massachusetts Medical Center's three graduate schools are actively involved in teaching and research. The medical school clinical faculty is also directly involved in the delivery of specialized care, on both an inpatient and outpatient basis.

The student body includes medical students, PhD (biomedical sciences) students, master's (nursing) students, resident physicians and fellows, several hundred allied health students in clinical training (from private and public colleges), and thousands of healthcare practitioners who depend on UMMC for their continuing education.

MEDICAL SCHOOL

The school provides high quality medical education to Massachusetts residents from diverse populations, enrolling 100 students in each class. Approximately 50 percent are women; more than half remain in the Bay State following graduation. The school is committed to training physicians in the full range of medical disciplines, with emphasis on practice in the primary care specialties, in the public sector, and in underserved areas of the commonwealth. For their postgraduate training, UMass Medical School graduates are selected by some of the most prestigious hospitals across the U.S.

GRADUATE SCHOOL OF BIOMEDICAL SCIENCES

The GSBS faculty trains scientists and educators to conduct laboratory research on human-disease related problems and to serve as faculty members in institutions devoted to the medical sciences. UMMC-trained research scientists also can be expected to play a key role in the commonwealth's vital biotechnology industry.

GRADUATE SCHOOL OF NURSING

The GSN prepares advanced practice nurses as nurse practitioners, clinical specialists, and managers of nursing practice within

three specialties: adult acute/critical care, adult ambulatory/community care — adult nurse practitioner, and management of nursing practice. Subspecializations are offered in the care of individuals with HIV/AIDS and cardiac care nursing.

GRADUATE MEDICAL EDUCATION

UMMC residency and fellowship programs, which attract physicians graduating from 82 percent of the 126 accredited medical schools around the country, provide training for certification in specialties. UMass offers a total of 37 accredited programs — including the first and largest family practice residency program in Massachusetts — in affiliation with 11 community teaching hospitals and five family health centers throughout the state.

Primary care physicians are trained through a number of residency programs, including those in family practice, pediatrics and internal medicine. The pediatrics program has become a national model for the training of pediatricians in primary care.

ALLIED HEALTH PROGRAMS

UMass provides clinical, practicum, and other field placement training in formal affiliation with degree- and certificate-granting health profession schools. Cooperative programs in nursing, food and nutrition, occupational therapy, and physical therapy are prime examples.

UMass also offers a varied and broad range of internships for area college and university students. Science education, psychology, computer sciences, child care, animal medicine, and healthcare administration are just a few of the many Medical Center departments that have helped meet the needs of Worcester college students for high-quality practical education.

CONTINUING EDUCATION

Each year, more than 8,500 physicians, nurses, and other allied health professionals participate in nearly 100 accredited continuing education programs sponsored and presented at UMMC and throughout the region. Programs focus on new medical information and specialized skills.

COOPERATIVE DEGREE PROGRAMS

As part of the Worcester Consortium for Higher Education, UMMC participates in several cooperative programs, including:

- Doctor of Philosophy in the Medical Sciences with Clark University, the Worcester Foundation for Experimental Biology and Worcester Polytechnic Institute;
- Master of Health Administration with Clark's Graduate School of Management;
- Master of Science/Master of Business Administration with Clark's Graduate School of Management;
- Doctor of Veterinary Medicine/Doctor of Philosophy with Tufts University School of Veterinary Medicine.

In addition, UMMC is the site for the only Master of Public Health program offered in Central Massachusetts, designed for health-care professionals who wish to specialize in epidemiology. It is accredited by the UMass/Amherst Division of Public Health, with courses taught by faculty members from both campuses.

COMMUNITY PROGRAMS

The Office of Community Programs supports, administers and helps to develop community-based education programs for medical students, residents and practicing healthcare providers. The emphasis is on primary care and the needs of underserved areas.

The OCP administers the statewide Area Health Education Center (AHEC), which focuses on community-based medical education, continuing education and health career programs for minority youth; the New England AIDS Education and Training Center, which offers education programs on HIV/AIDS for healthcare providers throughout the region; the Community Medical Practice Collaborative (COMMPACT), which assists in linking residents and practicing physicians to communities in need of physicians; and other similar projects.

The OCP conducts cooperative projects with many community-based and state organizations and agencies, and it is a major vehicle through which UMMC explores new primary-care educational initiatives with community partners.

Patient Services

HOSPITAL AND CLINICS

The university teaching hospital and its clinics serve patients from throughout central New England and beyond. As the advanced tertiary-care referral center for Central Massachusetts, the University of Massachusetts Medical Center has the full complement of highly sophisticated technology and support services necessary to provide the region with specialists acclaimed for their work in such areas as plastic surgery, bone disease, neurology, advanced cardiological care, dermatology, radiation therapy and other forms of cancer care. Consequently, patients who come to UMass tend to have more complex medical problems than those in other Massachusetts hospitals, according to a Medicare index used to measure severity of illness. In 1993, the hospital's total number of beds increased to 416, when UMass began staffing an additional 45 existing beds at the adjacent Worcester State Hospital.

As other hospitals in the area have eliminated pediatric beds, UMass has developed the comprehensive Children's Medical Center, with specialists in every pediatric health field, such as orthopedics, psychiatry and surgery. UMass provides the only pediatric intensive care unit and pediatric AIDS treatment in the area.

The hospital has developed a variety of services previously unavailable in the region, including kidney transplantation, a center for stone disease, advanced laser technology, cardiac surgery, and forensic psychiatry. When the only burn unit in the area was closed, UMass created a unit to treat burn victims from the region.

In 1993, UMass began development of a Cancer Center that links basic and clinical research to patient care. Added to UMMC's special services for patients with cancer are a state-of-the-art bone marrow transplantation program and gene therapy program.

UMass also has charted growth in outpatient care, as visits to the hospital's clinics climb to more than 271,500 a year. Services include the busiest asthma clinic in the area and a program to treat patients with attention deficit disorders. Another clinic — a collaboration of UMass's plastic surgery, neurology and ENT (ear, nose and throat or otolaryngology) divisions — enables the hospital to assume responsi-

bility for children with skull and facial abnormalities.

The Joseph T. Benedict Building, opened in 1993 to meet the needs of UMass's expanding outpatient population, provides services such as adult and children's primary care, behavioral and preventive medicine, family health services, psychiatry and counseling services, a reproductive hazards clinic, and a stress reduction program.

As the first designated Level 1 trauma center in the state, UMass Hospital is home to New England Life Flight, the six-state region's first hospital-based air ambulance. In FY 93, the hospital treated 1,400 patients brought by helicopter or ambulance to the trauma center.

HOSPITAL AFFILIATIONS

Interdependence with local hospitals and their physicians means that UMass resources are accessible to all patients in the region and beyond. For example, because the open-heart surgery program at UMass was at capacity, an affiliation with Worcester's Saint Vincent Hospital was established to enable UMass surgeons to perform surgery there. In another important collaboration, UMass Department of Obstetrics & Gynecology physicians also are on the staff of the Medical Center of Central Massachusetts-Memorial, where they provide expertise in high-risk obstetrics.

In addition, UMass has established affiliations with Milford-Whitinsville Regional Hospital, Athol Memorial Hospital, and HealthAlliance (a merger between Burbank Hospital in Fitchburg and Leominster Hospital). These affiliations formalize and build upon teaching, research and clinical ties among the hospitals.

In 1993, UMass launched the first mobile cardiac catheterization laboratory in the Northeast, "The Heartbeat of New England." Based at UMass, the 48-foot van serves patients at hospitals in the Massachusetts communities of Attleboro, Beverly, Falmouth, Leominster, Milford, Newburyport, Southbridge and Springfield.

HEALTH CENTER AFFILIATIONS

To make healthcare more accessible across the commonwealth, UMass extends clinical services and support beyond its Worcester campus, through collaborations with other communities and institutions.

Tripled in size and rededicated in 1993, the Tri-River Family Health Center is a UMMC division in Uxbridge. It serves the seven towns of the Blackstone Valley, once declared a "critical health manpower shortage area" by the federal government.

Family health centers affiliated with the UMass Department of Family & Community Medicine are located in Worcester, Fitchburg, Gardner, and Barre, and a UMMC pediatric clinic is housed in Webster's Hubbard Hospital.

PUBLIC AGENCIES

UMMC and other state agencies work together to provide services to their mutual constituents, the residents of the commonwealth. The majority of these collaborative efforts are contracts between UMMC's Department of Psychiatry and the state's departments of mental health, mental retardation and social services, to provide services at UMass and at state hospitals in the region.

The goal is to develop a state system that provides competent and respectful care for patients in the public sector — that is, those who can't afford private care. With more than half of its graduating psychiatric residents entering public sector psychiatry, UMass is one of five medical centers nationally recognized as training sites for work in public sector mental health.

Research

Based on the amount of research funds awarded by the National Institutes of Health, the medical school ranks second among the 10 public medical schools in the Northeast, and in the upper third among all of the country's medical schools. Among the 33 medical schools founded since 1965 — both public and private — UMass ranks fifth in NIH funding. The annual amount of federal and private grants and contracts rose from about \$2 million in 1977 to \$56 million projected for FY 94.

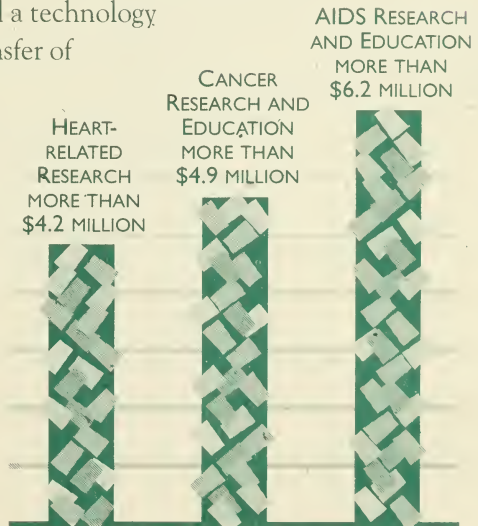
UMMC research programs have a significant impact on clinical care. For example, UMass is one of 24 sites in the country chosen by the federal government to participate in a national pediatric AIDS Clinical Trials Group, to study experimental drugs and vaccines

in women and infants infected with HIV-1. In another project, UMass child development specialists are conducting the largest study of early-intervention programs ever attempted. One innovative program with adults focuses on cancer prevention in the workplace, conducted with companies across the state by the UMass Division of Preventive and Behavioral Medicine and the state's Department of Public Health.

In addition to clinical research, UMMC scientists are conducting basic science research that adds to the growing body of knowledge about diseases — their identification, prevention and treatment. Recent grants fund ongoing research across a wide spectrum of areas, including AIDS, bone metabolism, cancer, cardiovascular disease, computer-assisted imaging, diabetes, endocrinology, hematology, nephrology, neuroscience, occupational and environmental health, radiation biology, tropical disease and virology.

The Program in Molecular Medicine involves intensive research in molecular aspects of cancer, viruses (including AIDS) and cell signaling. Based in Two Biotech, UMMC's building in the adjacent Massachusetts Biotechnology Research Park, it brings together a cadre of faculty who share a specific interest in studying disease processes at the molecular level. The program enables scientists from different departments and disciplines — including virology, molecular biology, medicine, pediatrics, biochemistry, cellular physiology and pharmacology — to work together in a central location and collaborate on a daily basis. UMMC has opened a technology transfer office, to accelerate the transfer of biotechnology research to the commercial sector.

Also based in Two Biotech, the Cancer Center — a center for research, training and patient care — links the work of UMMC's clinical care specialists and basic scientists. A major theme of its research involves the application of gene therapy and marrow transplant treatment for cancer patients.



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