

LONGWOOD MEDICAL AND ACADEMIC AREA (LMA) FACT SHEET 2011*

LOCATION

- The LMA is located on a 213-acre site, three miles southwest of downtown Boston, adjacent to the neighborhoods of the Fenway, Mission Hill, Audubon Circle and to the Town of Brookline.

SCOPE

- The LMA's unique concentration of 24 institutions include three major Harvard affiliated teaching hospitals, three research or research treatment centers, three Harvard schools, six historic colleges organized into the Colleges of the Fenway, a private secondary school, an HMO, an art museum, one public high school, a State mental health center, a children's treatment center, a religious institution, an international pharmaceutical research company, and a healthcare insurer.
- MASCO members represent 23 institutions in the LMA and include: Beth Israel Deaconess Medical Center, Brigham and Women's Hospital, Children's Hospital Boston, Dana-Farber Cancer Institute, Emmanuel College, Immune Disease Institute, Isabella Stewart Gardner Museum, Harvard Medical School, Harvard School of Dental Medicine, Harvard School of Public Health, Joslin Diabetes Center, Judge Baker Children's Center, Massachusetts College of Art and Design, Massachusetts College of Pharmacy and Health Sciences, Massachusetts Mental Health Center, Simmons College, Temple Israel, Wentworth Institute of Technology, Wheelock College, and The Winsor School. Harvard Vanguard Medical Associates, Blue Cross Blue Shield, and Merck Research Laboratories are Associate Members of MASCO.
- It is estimated that over 105,000 people commute to and visit the LMA daily including employees, students, volunteers, non-member employees, patients and visitors.

EMPLOYEES/ STUDENTS

- Each day in the LMA more than 43,600 employees and 19,200 students provide medical care, conduct research, teach, attend school, or otherwise support these functions. There are several thousand additional continuing education students, hospital volunteers, and other non-member employees (contracted vendors, physician providers, researchers on grants) and pre-K through 12th grade students for an estimated total of over 81,000 people per day in the LMA, not including patients or visitors.
- Thirty-four percent of LMA employees are Boston residents. This increased by 1,100 people between 2005 and 2008. Half of the employees from Boston live in these top five neighborhoods: Fenway/Kenmore, Dorchester, Jamaica Plain, Brighton and Roxbury (in order according to population). Thirteen percent of LMA employees live in Brookline and Newton, with another nine percent commuting from the South Shore, Plymouth and the Cape.
- In the fifteen years between 1993 and 2008 the LMA has averaged a growth rate of 1,200 employees per year.
- LMA institutions jointly average 8,800 job openings annually.
- Nearly 92% of LMA employees work for healthcare and research institutions (BIDMC, BWH, CHB, DFCI, HMS/HSDM, HSPH, IDI, JDC, and Merck). Fifteen percent of these workers are researchers. There are approximately 10,000 researchers in the LMA if you include those paid by grants, or otherwise supported by

non-payroll sources. There are approximately 1,800 physicians and dentists, 1,700 residents/interns and nearly 7,000 registered and vocational nurses on payroll.

- Six of Boston's 20 four-year small colleges (defined as enrollment < 4,800), are located in the LMA, and are known as the Colleges of the Fenway (COF). In 2008 the total enrollment of the COF made up half (50.4%) of Boston's four-year small college enrollment.
- The Colleges of the Fenway students comprise 15.6% of the total students attending four-year colleges and universities in Boston. In 2008 the COF had 17,950 students according to the NEBHE, more than UMass Boston (13,138), and with twice as many graduate students (COF at 4,300).
- Historically 75% of Colleges of the Fenway students come from Massachusetts, 23% are from out-of-state, and 2% are international students.

PATIENTS/ VISITORS

- In 2009 there were nearly 103,000 inpatient admissions and 2.13 million outpatient visits to the LMA.
- An estimated 2.2 to 4 million people visit the LMA per year (avg. 3.34 million), including visitors to patients in the hospitals, cultural institutions and conference centers.
- In 2009, approximately fifty-two percent of all hospital-based outpatient clinical visits, and fifty-five percent of all inpatient admissions in Boston, were to LMA hospitals and clinics.
- In 2009 LMA medical institutions accounted for more than half (53%) of all staffed beds in Boston hospitals and trauma centers, totaling 1,820 staffed beds in 2009.
- In 2009 there were 13,000 births in the LMA.

LAND USE

- 18.1 million square feet of building space are developed in the LMA as of June 2010, including members and non-members.
- In 2001 MASCO projected that the LMA could grow by 2.6 to 4.4 million square feet by 2011. As of September, 2007 4.4 million square feet were built, under construction, or approved, and anticipated to be completed by 2011.

GROWING RESPONSIBLY

- State and city smart growth: to reduce traffic congestion locate administrative/other space in walkable locations; concentrate tertiary care and research in the city.
 - LMA Near-site (<1 mile) approximately 1.03 msf are now owned/leased by members.
- Locate additional medical services near suburban customers to reduce travel.
 - LMA Satellite sites (> 1 mile) approximately 2.56++ msf are now owned/leased by members
 - 6,100 employees work near-site or off-site (beyond the 43,600 who work on-site)
- Develop housing on-campus to reduce impacts of students in the neighborhoods
 - Colleges house more students on-campus with nearly 2,000 new beds built on campus since 2001.
- Create housing and retail in The Fenway to encourage 'walk-to-work'
 - City housing creation policies make Fenway neighborhood #1 LMA employee zip code

- Seven LEED certifiable or certified buildings have been built in the LMA (including three Gold, two Silver, two Certifiable). Additionally there is one Gold Core & Shell building, and three LEED Commercial Interior facilities including a Gold certified laboratory. Another six LEED buildings under construction, or designed and approved.
- There are four completed green roofs and approximately 23 high albedo (white) roofs. Parks or quadrangles that are located on top of building structures represent another four green roofs at grade level in the LMA.
- Due to significant efforts by LMA institutions and MASCO the number of drive-alone commuters has dropped 20% between 2000-2008, transit use has increased 9%, and walking and bicycling has increased by 6%. Achieving this dramatic change in mode split has made the LMA a model for the nation.
- Energy conservation initiatives have saved almost 11 million kWh of electricity, equivalent to the average annual consumption of one small college.
- Twenty-one percent of member waste is recycled or composted (approx. 4,750 tons), with eighteen members reporting.

ECONOMIC

- Total revenues for MASCO member institutions were \$6.2 billion.
- According to the Boston Business Journal, the total net patient service revenue for LMA medical institutions in FY 2008 was \$3.66 billion dollars.
- LMA payroll generated an estimated \$113 million in state income tax revenues for the Commonwealth. The LMA payroll in FY 2008 totaled over \$2.14 billion (not including associate members and four smaller members IDI, JDC, MMHC and TI).
- Massachusetts was the number two state recipient of National Institutes of Health (NIH) funding in FY 2009, following California, receiving \$2.33 billion dollars. The LMA is responsible for forty-one percent of the state total NIH funding at \$948 million.
- If the LMA were ranked as a state, it would be number seven, after Maryland, and before North Carolina. The LMA has moved ahead of North Carolina since the 2005 MASCO data collection.
- NIH funds are used to seek causes of common and rare diseases (diabetes, cancer, cardiovascular, AIDs, sleep apnea, genetic disorders) and acceleration of cures for the community.

WORKFORCE/ COMMUNITY DEVELOPMENT

- In 2006 MASCO members offered over 200 adult and youth community workforce programs; over 27,000 individuals are served annually including 16,000 youth, over 2,300 adults and 8,600 incumbent workers. Members provide approximately 2,500 internships; mentor or tutor over 1,400 people; and hold panels, workshops or site visits for an additional 10,000+ people.
- Hundreds of millions of dollars are contributed by LMA hospitals and outpatient clinics in community benefits, along with hundreds of thousands of volunteer hours, for health care programs, education and advocacy. The health care programs range from the development, operation and staffing of health care centers with partner communities, to outreach through operation of mobile diagnostic van services at 50 different sites, to advocacy and education related to specific health issues.

- According to the Attorney General's website four LMA medical institutions donated nearly \$44 million in Net Charity Care in 2009 (BIDMC, BWH, CHB, DFCI).
- The Colleges of the Fenway are rooted in the community, have a tradition of community service, and are building the core economy of Massachusetts. Over 55% of Colleges of the Fenway alumni live in Massachusetts, totaling 65,890 people. They support the Commonwealth's innovation economy (e.g., scientific research, higher education and healthcare), while filling core economy labor shortages including: nursing, pharmacy, radiology, design, social work, engineering, and inner-city school teaching.
- Over \$95 million in scholarships were awarded to LMA students, of which \$8 million were to Boston residents.
- The Colleges of the Fenway students alone donate over 120,000 volunteer hours per year (equal to 15,000 work days), they participate in Alternative Spring Break, and actively engage in service learning through their curricula, practica, and activities.
- COF students and faculty spend an additional 750,000 hours per year serving the community through internships and volunteer placements - equal to 93,600 work days or 360 full-time staff. These hours take place in the community with 800 of these sites located in the City of Boston, and 2,125 sites total located throughout Massachusetts.

Prepared by
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Note: Data sources include the American Hospital Association, the Boston Business Journal,
The New England Board of Higher Education Annual Directory of
New England Colleges & Universities 2009,
National Institutes of Health website,
MASCO, and member institutions.

* Unless otherwise noted data are from 2008