Racial and Ethnic Health Disparities
by EOHHS Regions in Massachusetts

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November 2007
ACKNOWLEDGEMENTS

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Special thanks go to Bruce Cohen, PhD, Director of the Division of Research and Epidemiology, Bureau of Health Information, Statistics, Research, and Evaluation, and Jerry O'Keefe, Bureau Director, Bureau of Health Information, Statistics, Research, and Evaluation, and to all of the DPH Bureaus who have contributed to this report.

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Dear Massachusetts Residents,

Throughout the United States, people of color generally suffer poorer health than whites. We see persistent patterns of increased hospitalization, disability, and premature death among African Americans, Asians, Latinos, and other groups across a broad spectrum of diseases and conditions. These include diabetes, asthma, cancer, HIV/AIDS, cardiovascular disease, and infant mortality.

In Massachusetts, eliminating racial and ethnic health disparities is one of the top priorities of the Patrick-Murray administration. As part of this effort, the Executive Office of Health and Human Services and the Massachusetts Department of Public Health present the administration’s first report on **Racial and Ethnic Health Disparities in Massachusetts**. Data in the report show differences in health status among racial and ethnic groups across Massachusetts. The report will serve as a baseline against which we will measure progress in reducing health disparities as we implement programs and initiatives to address the root causes of disparities.

We hope that this report will be useful to Massachusetts residents, healthcare providers, policy makers and other organizations committed to health equity. We welcome suggestions about how to strengthen public and private cooperation to insure that all residents of the Commonwealth have equal opportunities to ensure that they live healthy and productive lives.

Sincerely,

JudyAnn Bigby, MD           John Auerbach
Secretary              Commissioner
Executive Office of Health and Human Services  Department of Public Health
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EXECUTIVE SUMMARY

Massachusetts ranks among the best performing states in nation for many health indicators. Yet when we examine the diverse groups that make up the state’s population, we find that some groups experience far worse health than the overall state average indicates. When we examine health status by income groups, education levels, gender, and geography, we find, for example:

- Only 10.5% of adults with an annual household income of $75,000 or more reported smoking in 2005; whereas, 26.2% of those with an annual household income of less than $25,000 reported smoking.

- The age-adjusted death rate for those with a high school education or less was 520.9 per 100,000 population -- 3 times higher than the rate of 172.2 for those with 13 years of education or more in 2005.

- Males were 2.3 times more likely to die from injury than females and 9.1 times more likely to die from a firearm injury in 2005.

- Among the 30 largest Massachusetts municipalities, Brockton (11.5%), Revere (10.9%), New Bedford (10.6%), Springfield (9.8%), and Boston (9.6%) recorded low birthweight percentages that were higher than the statewide average of 7.9%.

However, the greatest disparities in the health are those experienced by some racial and ethnic groups in the state. This report provides important data, which highlights disparities experienced by minority racial and ethnic groups for the state as a whole and for each EOHHS region.

Sociodemographic Indicators

Race and Ethnicity

The largest racial and ethnic group in Massachusetts is White Non-Hispanics, who are 81% of the population. The second largest group is Hispanic, 7.9%, followed by Black Non-Hispanics, 6%, Asian Non-Hispanics, 4.9%, and 0.2% American Indians.

The racial and ethnic group proportions vary by EOHHS region. The Southeast Region has almost 90% White Non-Hispanics; whereas, the Boston Region has 54% White Non-Hispanics.

- The Boston Region has the highest proportion of Hispanics at 16.6%, and the Southeast has the lowest at 3.4%.
• The Boston Region has the highest proportion of Black Non-Hispanics at 20.4%, and the Northeast has the lowest at 3.1%.

• The Boston Region has the highest proportion of Asian Non-Hispanics at 8.6%, and the Southeast has the lowest at 1.5%.

• The Southeast has the highest proportion of American Indian Non-Hispanics at 1/3 of 1%, and the Metrowest Region has the lowest at less than 2/10 of 1%.

Age

Almost half of Massachusetts’ population is less than 35 years old. Forty-one percent are between the ages of 35 and 64, and 13.3% are ages 65 and older.

The Boston Region is the youngest region with 52.9% of the population below age 35, and the Southeast is the oldest region with 14.5% of its population ages 65 and older. In the state as a whole, the percent of persons below age 35 is 41.2, and the percentage of the population that is ages 65 and older is 13.3%.

Language

The proportion of the population who speak only English at home is 81.3%.

The Boston and Northeast Regions have significantly lower percentages of persons who speak only English at home than the state average (81.3%), while the other regions have significantly higher proportions than the state average.

Poverty

The state per capita income is $25,952, which is higher than that of the U.S., which is $21,587. The percent of persons living below 100% poverty in Massachusetts is 9.3% as compared with 12.4% for the U.S.

• Except for the Metro West Region, all regions have a lower per capita income than the state average ($25,952).

• The percent of persons living 100% below poverty is significantly higher for the Boston and Southeast Regions than the state average (9.3%).
Health Care Access and Status

No Health Insurance: 2005

Overall, 9.0% of Massachusetts residents did not have health insurance. Hispanics have the highest percentage of no health insurance in the state for any race or ethnicity group at 24%, which is 2.7 times the state level.

- Hispanics in the Western, Northeast, Southeast, and Boston Regions had a significantly higher percentage of adults with no health insurance in 2005 (BRFSS, 2005) than the state average (9%).

- White Non-Hispanics in the Northeast and Metrowest Regions had significantly lower percentages of those with no health insurance than the state average.

Fair Poor Health

Overall, 13.0% of Massachusetts residents reported fair or poor health in 2005. Hispanics have the highest percentage of fair or poor health in 2005 in the state for any race or ethnicity group at 23%, which is 1.8 times the state level.

- Hispanics in all Regions except the Metrowest Region had significantly higher percentages of adults who reported fair or poor health in 2005 than the state average (13%) (BRFSS, 2005).

- White Non-Hispanics in the Metrowest Region had a significantly lower percentage of adults who reported fair or poor health in 2005 (BRFSS, 2005).

Birth Indicators

Overall, the infant mortality rate (IMR) for Massachusetts is 4.9 infant deaths per 1,000 live births. Black Non-Hispanics have the highest infant mortality rate followed by Hispanics. The Black Non-Hispanic IMR is 2.3 times that of the state, and the Hispanic IMR is 1.4 times that of the state.

The teen birth rate for Hispanics was 3.3 times that of the state in 2005 (73.2 vs. 21.7 per 1,000 women ages 15-19).

Black Non-Hispanic infants had the highest percentage of low birth weight (LBW) in the state for any race or ethnicity group at 12.0% in 2005.
• Black Non-Hispanics in all regions of the state have higher infant mortality rates (IMR) than the state overall. Black Non-Hispanics in the Central Region have the highest IMR in the state for any race and Hispanic ethnicity group for the period 2002-2005. The rate is almost 4 times that of the state average. (18.9 infant deaths per 1,000 live births; the state average is 4.9 infant deaths per 1,000 live births)

• Black Non-Hispanics in the Western, Northeast, and Southeast Regions have higher proportion of low birth weight infants than the state overall for the period of 2005. Black Non-Hispanics in the Western Region have the highest proportion of low birth weight infants for 2005. The rate is 1.5 times that of the state average. (12.2%; the state average is 7.9%)

• Hispanics in all regions of the state have higher teen birth rates than the state overall. Hispanics in the Western region have the highest teen birth rate in the state for any race and Hispanic ethnicity group. The rate is almost 5 times that of the state average. (108 teen births per 1,000 women 15-19 years of age; the state average is 22 teen births per 1,000 women 15-19 years of age)

Chronic Conditions

More than half of Massachusetts adults were overweight in 2005. Black Non-Hispanics had the highest percentage of overweight in the state for any race or ethnicity group at 68%.

Black Non-Hispanics, followed by Hispanics had the highest hypertension hospitalization rates in the state for any race or ethnicity group at 176 and 89 discharges per 100,000 population age-adjusted for 2003-2005.

Black Non-Hispanics, followed by Hispanics had the highest diabetes mortality rates in the state for any race or ethnicity group at 38 and 29 deaths per 100,000 population age-adjusted for 2003-2005.

Black Non-Hispanic, followed by Hispanic children ages 0 to 14 had the highest asthma emergency department visit rates in the state for any race or ethnicity group at 2,096 and 1,573 per 100,000 population ages 0 to 14 for 2005.

• Black Non-Hispanics and Hispanics in the Western Region have the highest proportion of overweight adults in the state. These proportions were 1.4 times and 1.3 times that of the state average, respectively (76% of Black Non-Hispanic adults and 70% of Hispanic adults in the Western region; the state average is 56%).
• Black Non-Hispanics and Hispanics in all regions have higher hospitalization rates for hypertension than the state overall for the period 2003-2005. Black Non-Hispanics in Boston have the highest rate in the state for any race and Hispanic ethnicity group. The rate is more than five times that of the state average. (207 hospitalizations per 100,000 population age-adjusted; the state average is 39 hospitalizations per 100,000)

• Hispanics in the Central Region have the highest diabetes mortality rate of all race and ethnicity groups in the region for the period 2003-2005. The rate is almost three times that of the state average. (49 deaths per 100,000 population age-adjusted; the state average is 18 deaths per 100,000)

• In the Northeast, Southeast, and Boston regions, Black Non-Hispanic children, ages 0 to 14, have higher emergency visit rates for asthma than the state overall. The highest emergency visit rate for asthma is in Boston with a rate almost 4 times that of the state average (3,111 emergency visits per 100,000 population ages 0 to 14, compared with the state average of 808 emergency visits per 100,000).

Substance Abuse

Hispanics had the highest opioid-related emergency department visit rates in the state for any race or ethnicity group at 237 per 100,000 compared with the state average of 181 visits per 100,000 visits for 2005.

• White Non-Hispanics in the Central, Northeast, Southeast, and Boston Regions have significantly higher opioid-related emergency visit rates than the state average, while White Non-Hispanics in the Metrowest and Western regions have significantly lower opioid-related emergency visit rates than the state average. (state average is 181 visits per 100,000 visits)

• White Non-Hispanics in the Northeast, Southeast, and Boston Regions have significantly higher opioid-related fatal overdose death rates than the state average, while White Non-Hispanics in the Western and Central regions have significantly lower opioid-related fatal overdose death rates than the state average. (state average is 8 deaths per 100,000 visits)

Injury/Violence

Black Non-Hispanics, followed by Hispanics had the highest firearm-related emergency department visit rates in the state for any race or ethnicity group at 36 and 19 visits per 100,000 visits for 2003-2005, which, for Black Non-Hispanics is 5.4 times the state average, and for Hispanics, it is 2.7 times the state average.
• Black Non-Hispanics and Hispanics in all regions of the state have higher firearm emergency department visit rates and death rates than the state overall. Black Non-Hispanics in the Western Region have the highest firearm-related emergency department visit rate for the period of 2003-2005. Black Non-Hispanics in the Boston Region have the highest firearm-related death rate for the period of 2003-2005.

• Black Non-Hispanics and Hispanics in all regions have higher assault hospital discharge rates than the state overall. White Non-Hispanics in the Boston region also have higher assault hospital discharge rates than the state overall. Black Non-Hispanics in the Boston Region have the highest assault hospital discharge rate for the period of 2003-2005.

• White Non-Hispanics in all regions except the Boston and Metro Region have higher fall-related emergency department visit rates than the state overall. Black Non-Hispanics and Hispanics in the Western Region also have higher fall-related emergency department visit rates than the state overall. White Non-Hispanics in the Boston Region have the highest fall-related emergency department visit rate for the period of 2003-2005.

**HIV/AIDS**

Black Non-Hispanics, followed by Hispanics had the highest HIV/AIDS mortality rates in the state for any race or ethnicity group at 16 and 13 deaths per 100,000 per 100,000 population age-adjusted for 2003-2005, which, for Black Non-Hispanics is 5.3 times the state average, and for Hispanics, it is 4.3 times the state average.

• Black Non-Hispanics and Hispanics in every region of the state have higher HIV/AIDS death rates than the state overall. Hispanics in the Western Region have the highest HIV/AIDS death rate for the period of 2003-2005.
TECHNICAL INTRODUCTION

**Background**: This report presents important health status indicators by race and Hispanic ethnicity for the six Executive Office of Health and Human Services (EOHHS) regions in the state of Massachusetts¹: (Region 1–Western; Region 2–Central; Region 3–Northeast; Region 4–Metrowest; Region 5–Southeast; Region 6–Boston). It also contains maps and socio-demographic indicators for the regions in order to provide a context for the health status indicators. The Massachusetts Department of Public Health is committed to ending disparities in health, and it is hoped that this report will serve as a resource for this purpose.

In this report, the Massachusetts Department of Public Health provides monitoring, surveillance, and reporting of the health status for broad race and Hispanic ethnicity groups in Massachusetts using the following five, mutually exclusive categories: White Non-Hispanic, Black Non-Hispanic, Asian Non-Hispanic, Native American Non-Hispanic, and Hispanic. (When the Department standard for collection of language and detailed ethnicity is fully implemented, more detailed variation in the health status for population subgroups will become available.) The Department currently collects race and Hispanic ethnicity data by self-report whenever possible. For example, the mother or parents of a newborn infant fill out a worksheet on which they specify race and Hispanic ethnicity for the birth certificate. Of course, for the death certificate, the race and Hispanic ethnicity of the decedent must be reported by an informant or obtained by observation.

Taken as a whole, the Massachusetts population according to 2005 Census Bureau estimates, is 81% White Non-Hispanic. The other race and Hispanic ethnicity group proportions are as follows: Black Non-Hispanic, 6%; Hispanic 7.9%; Asian Non-Hispanic, 4.9%; and Native American Non-Hispanic, less than 1% (0.02%). However, there are cities and towns in which the race and Hispanic ethnicity groups

¹ Note that this is different from the Regional Reports in which the race and Hispanic ethnicity group’s performance on each indicator was compared with that of the group at the state level.
have larger proportions of the population than they do in the state overall, and race and Hispanic ethnicity proportions in the six EOHHS regions differ from the state overall race and Hispanic ethnicity distribution.

**Format:** In this report, health status indicators for each of the six EOHHS regions, selected cities, and the state as a whole are stratified by race and Hispanic ethnicity. The race and Hispanic ethnicity group’s performance on each indicator is compared with that of the state overall for all race groups, that is, the state average. On health indicator charts, two sets of race and Hispanic ethnicity groups are shown: the region’s race and Hispanic ethnicity groups and the state’s race and Hispanic ethnicity groups. For example, in Figure 1 below, the set of bars on the left represent the *region’s* race and Hispanic ethnicity groups’ performance on the low birthweight indicator. The set of bars on the right represents the *state’s* race and ethnicity groups’ low birthweight performance. The red line across the bars and the oval show the state average low birthweight (7.9%). Each race and ethnicity group is compared with the state average, and an asterisk indicates that there is a statistically significant difference from the state average (that is, the difference cannot be attributed to chance alone). In the example, the region’s Black Non-Hispanics have a higher proportion of low birthweight infants than the state average (12.2%). For the state, both White Non-Hispanics (7.3%) and Black Non-Hispanics (12.0%) differ from the state average. All other groups’ low birthweight values do not differ significantly from the state average.
Low Birthweight by Race and Ethnicity
Western Region and Massachusetts: 2005

When there are insufficient numbers of events for a race and Hispanic ethnicity group to enable a comparison, this group is marked as “N/A”, not available.
Executive Office of Health and Human Services Regions

Western Region
Central Region
Northeast Region
Metro West Region
Southeast Region
Boston Region

Legend:
- Western Region
- Central Region
- North East Region
- Metro West Region
- South East Region
- Boston Region
I. WESTERN REGION
SOCIODEMOGRAPHIC INDICATORS AND HEALTH CARE ACCESS AND STATUS
2005 Population by Communities--Western Region

Cities with at least 10,000 Population

Largest
Springfield: 156,358

Smallest
Monroe: 100

Race and Ethnic Breakdown of Population Western Region and Massachusetts: 2005

Western Region

White*: 81.3%
Black*: 5.5%
Hispanic: 11.0%
Asian*: 2.0%
American Indian*: 0.2%

Berkshires

White*: 93.8%
Hispanic: 2.3%
Asian*: 1.3%
Black*: 2.5%

Massachusetts

White*: 81.0%
Black*: 6.0%
Hispanic: 7.9%
Asian*: 4.9%
American Indian*: 0.2%

* Non-Hispanics

Source: MDPH, Bureau of Health Information, Statistics, Research, & Evaluation Bureau, Division of Research & Epidemiology
### Race and Ethnic Breakdown of Population
#### Largest Communities, Western Region and Massachusetts: 2005

<table>
<thead>
<tr>
<th>Race/Ethnicity</th>
<th>Western Region</th>
<th>Chicopee</th>
<th>Holyoke</th>
<th>Springfield</th>
<th>Pittsfield</th>
<th>MA Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>White non-Hispanic</td>
<td>81.3%</td>
<td>86.3%</td>
<td>49.3%</td>
<td>45.0%</td>
<td>90.8%</td>
<td>81.0%</td>
</tr>
<tr>
<td>Black non-Hispanic</td>
<td>5.5%</td>
<td>2.2%</td>
<td>2.7%</td>
<td>21.3%</td>
<td>4.7%</td>
<td>6.0%</td>
</tr>
<tr>
<td>Hispanic</td>
<td>11.0%</td>
<td>10.1%</td>
<td>46.7%</td>
<td>31.0%</td>
<td>2.8%</td>
<td>7.9%</td>
</tr>
<tr>
<td>Asian non-Hispanic</td>
<td>2.0%</td>
<td>1.2%</td>
<td>1.0%</td>
<td>2.4%</td>
<td>1.6%</td>
<td>4.9%</td>
</tr>
<tr>
<td>American Indian</td>
<td>0.2%</td>
<td>0.2%</td>
<td>0.2%</td>
<td>0.3%</td>
<td>0.1%</td>
<td>0.2%</td>
</tr>
</tbody>
</table>

Source: MDPH, Bureau of Health Information, Statistics, Research, & Evaluation Bureau, Division of Research & Epidemiology

### Population by Age Group
#### Western Region and Massachusetts: 2005

#### Western Region

- 0-19 years: 25.5%
- 20-24 years: 8.1%
- 25-44 years: 28.6%
- 45-64 years: 25.7%
- 65+ years: 14.2%

#### Massachusetts

- 0-19 years: 25.5%
- 20-24 years: 8.7%
- 25-44 years: 29.4%
- 45-64 years: 25.3%
- 65+ years: 13.3%

Source: MDPH, Bureau of Health Information, Statistics, Research, & Evaluation Bureau, Division of Research & Epidemiology
### Population by Age Group
**Largest Communities, Western Region and Massachusetts: 2005**

<table>
<thead>
<tr>
<th>Ages</th>
<th>Western Region</th>
<th>Chicopee</th>
<th>Holyoke</th>
<th>Springfield</th>
<th>MA Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-19 years</td>
<td>25.5%</td>
<td>23.7%</td>
<td>30.5%</td>
<td>30.6%</td>
<td>25.5%</td>
</tr>
<tr>
<td>20-24 years</td>
<td>8.1%</td>
<td>6.7%</td>
<td>6.7%</td>
<td>8.6%</td>
<td>6.7%</td>
</tr>
<tr>
<td>25-44 years</td>
<td>28.5%</td>
<td>27.2%</td>
<td>27.1%</td>
<td>28.3%</td>
<td>29.4%</td>
</tr>
<tr>
<td>45-64 years</td>
<td>25.7%</td>
<td>25.6%</td>
<td>21.2%</td>
<td>20.9%</td>
<td>25.3%</td>
</tr>
<tr>
<td>65+ years</td>
<td>14.2%</td>
<td>16.8%</td>
<td>14.4%</td>
<td>11.7%</td>
<td>13.3%</td>
</tr>
</tbody>
</table>

Source: MDPH, Bureau of Health Information, Statistics, Research, & Evaluation Bureau, Division of Research & Epidemiology

### Language Spoken at Home
**Largest Cities, Western Region: 2000**

<table>
<thead>
<tr>
<th>Language</th>
<th>Western Region</th>
<th>Chicopee</th>
<th>Holyoke</th>
<th>Springfield</th>
<th>MA Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Only English</td>
<td>83.9</td>
<td>79.2</td>
<td>57.2</td>
<td>68.4</td>
<td></td>
</tr>
<tr>
<td>Spanish/Spanish Creole</td>
<td>8.2</td>
<td>7.1</td>
<td>35.8</td>
<td>23.5</td>
<td></td>
</tr>
<tr>
<td>Portuguese/Portuguese Creole</td>
<td>0.9</td>
<td>1.8</td>
<td>0.3</td>
<td>0.7</td>
<td></td>
</tr>
<tr>
<td>French</td>
<td>1.5</td>
<td>3.7</td>
<td>1.9</td>
<td>1.3</td>
<td></td>
</tr>
<tr>
<td>Italian</td>
<td>0.7</td>
<td>0.3</td>
<td>0.2</td>
<td>1.1</td>
<td></td>
</tr>
<tr>
<td>French Creole</td>
<td>0.04</td>
<td>0.07</td>
<td>0.03</td>
<td>0.06</td>
<td></td>
</tr>
<tr>
<td>Russian</td>
<td>0.7</td>
<td>0.9</td>
<td>0.1</td>
<td>0.7</td>
<td></td>
</tr>
<tr>
<td>Other languages</td>
<td>4.1</td>
<td>6.9</td>
<td>4.5</td>
<td>4.2</td>
<td></td>
</tr>
</tbody>
</table>

Source: MDPH, Bureau of Health Information, Statistics, Research, & Evaluation Bureau, Division of Research & Epidemiology
### Language Spoken at Home, Western Region and Massachusetts: 2000

<table>
<thead>
<tr>
<th>Language Spoken at Home</th>
<th>Pittsfield</th>
<th>Berkshire</th>
<th>Western Region</th>
<th>Massachusetts Overall</th>
</tr>
</thead>
<tbody>
<tr>
<td>Only English</td>
<td>93.0</td>
<td>93.6</td>
<td>83.9</td>
<td>81.3</td>
</tr>
<tr>
<td>Spanish or Spanish Creole</td>
<td>1.7</td>
<td>1.6</td>
<td>8.2</td>
<td>6.2</td>
</tr>
<tr>
<td>Portuguese or Portuguese Creole</td>
<td>0.2</td>
<td>0.1</td>
<td>0.9</td>
<td>2.7</td>
</tr>
<tr>
<td>French</td>
<td>0.9</td>
<td>1.1</td>
<td>1.5</td>
<td>1.4</td>
</tr>
<tr>
<td>Chinese</td>
<td>0.2</td>
<td>0.2</td>
<td>0.4</td>
<td>1.2</td>
</tr>
<tr>
<td>Italian</td>
<td>1.4</td>
<td>0.8</td>
<td>0.7</td>
<td>1.0</td>
</tr>
<tr>
<td>French Creole</td>
<td>0.0</td>
<td>0.01</td>
<td>0.04</td>
<td>0.7</td>
</tr>
<tr>
<td>Russian</td>
<td>0.2</td>
<td>0.09</td>
<td>0.7</td>
<td>0.6</td>
</tr>
<tr>
<td>Vietnamese</td>
<td>0.1</td>
<td>0.1</td>
<td>0.3</td>
<td>0.5</td>
</tr>
<tr>
<td>Polish</td>
<td>0.9</td>
<td>0.9</td>
<td>1.4</td>
<td>0.5</td>
</tr>
</tbody>
</table>

Source: MDPH, Bureau of Health Information, Statistics, Research, & Evaluation Bureau, Division of Research & Epidemiology

### Socio-Demographic Indicators, Western Region and Massachusetts: 2000

<table>
<thead>
<tr>
<th>Socio-Demographic Indicator</th>
<th>Western Region</th>
<th>Massachusetts Overall</th>
<th>US Overall</th>
</tr>
</thead>
<tbody>
<tr>
<td>Per Capita Income</td>
<td>$20,347</td>
<td>$25,952</td>
<td>$21,587</td>
</tr>
<tr>
<td>Persons living below 100% poverty</td>
<td>12.5%</td>
<td>9.3%</td>
<td>12.4%</td>
</tr>
<tr>
<td>Children &lt; 18 living below 100% poverty</td>
<td>17.8%</td>
<td>11.6%</td>
<td>16.1%</td>
</tr>
<tr>
<td>Less than a High School Education</td>
<td>17.2%</td>
<td>15.2%</td>
<td>19.6%</td>
</tr>
<tr>
<td>Foreign born</td>
<td>6.2%</td>
<td>12.2%</td>
<td>11.1%</td>
</tr>
<tr>
<td>Unemployed</td>
<td>5.2%</td>
<td>5.1%</td>
<td>5.5%</td>
</tr>
</tbody>
</table>

Source: MDPH, Bureau of Health Information, Statistics, Research, & Evaluation Bureau, Division of Research & Epidemiology
Socio-Demographic Indicators
Largest Cities, Western Region and Massachusetts

<table>
<thead>
<tr>
<th></th>
<th>Massachusetts</th>
<th>Chicopee</th>
<th>Holyoke</th>
<th>Springfield</th>
<th>Pittsfield</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Per Capita Income (2000)</strong></td>
<td>$25,952</td>
<td>$18,646</td>
<td>$15,913</td>
<td>$15,232</td>
<td>$20,549</td>
</tr>
<tr>
<td><strong>Persons living below 100% poverty (2000)</strong></td>
<td>9.3%</td>
<td>12.3%</td>
<td>26.4%</td>
<td>23.1%</td>
<td>11.4%</td>
</tr>
<tr>
<td><strong>Children &lt; 18 living below 100% poverty (2000)</strong></td>
<td>11.6%</td>
<td>19.5%</td>
<td>41.7%</td>
<td>33.9%</td>
<td>16.7%</td>
</tr>
<tr>
<td><strong>Less than a High School Education (2000)</strong></td>
<td>15.2%</td>
<td>25.1%</td>
<td>30.0%</td>
<td>26.6%</td>
<td>15.6%</td>
</tr>
<tr>
<td><strong>Foreign born (2000)</strong></td>
<td>12.2%</td>
<td>8.2%</td>
<td>5.4%</td>
<td>8.0%</td>
<td>3.9%</td>
</tr>
<tr>
<td><strong>Speak language other than English at home (2000)</strong></td>
<td>18.7%</td>
<td>20.8%</td>
<td>42.8%</td>
<td>31.6%</td>
<td>7.0%</td>
</tr>
<tr>
<td><strong>Unemployed (2004)</strong></td>
<td>5.1%</td>
<td>6.2%</td>
<td>7.3%</td>
<td>7.7%</td>
<td>4.8%</td>
</tr>
</tbody>
</table>

Source: MDPH, Bureau of Health Information, Statistics, Research, & Evaluation Bureau, Division of Research & Epidemiology

Adults who Have No Health Insurance by Race and Ethnicity
Western Region and Massachusetts: 2005

- White non-Hispanic
- Black non-Hispanic
- Hispanic

<table>
<thead>
<tr>
<th>Percent</th>
<th>Western Region</th>
<th>Massachusetts</th>
</tr>
</thead>
<tbody>
<tr>
<td>11</td>
<td>18</td>
<td>23*</td>
</tr>
<tr>
<td>12</td>
<td>7</td>
<td>24*</td>
</tr>
</tbody>
</table>

(∗) Statistically different from State (p ≤ 0.05)
Source: MDPH, Bureau of Health Information, Statistics, Research, and Evaluation, Massachusetts Behavioral Risk Factor Surveillance System (BRFSS), Health Survey Program
Adults who Reported Fair or Poor Health by Race and Ethnicity
Western Region and Massachusetts: 2005

<table>
<thead>
<tr>
<th>Percentage</th>
<th>Western Region</th>
<th>Massachusetts</th>
</tr>
</thead>
<tbody>
<tr>
<td>White non-Hispanic</td>
<td>13</td>
<td>12</td>
</tr>
<tr>
<td>Black non-Hispanic</td>
<td>12</td>
<td>17</td>
</tr>
<tr>
<td>Hispanic</td>
<td>27*</td>
<td>23*</td>
</tr>
</tbody>
</table>

* Statistically Significantly different from state (p ≤ 0.05)

Source: MDPH, Bureau of Health Information, Statistics, Research, & Evaluation, Health Survey Program
BIRTH INDICATORS
Infant Mortality Rates by Race/Ethnicity
Western Region and Massachusetts: 2002-2005

Deaths per 1000 live births

Western Region
- White non-Hispanic: 15.1*
- Black non-Hispanic: 8.0*
- Hispanic: NA
- Asian non-Hispanic: 3.0*

Massachusetts
- White non-Hispanic: 4.1*
- Black non-Hispanic: 4.1*
- Hispanic: 11.3*
- Asian non-Hispanic: 7.0*

State Overall: 4.9

Statistically different from State (p ≤ 0.05)

Source: MDPH, Bureau of Health Information, Statistics, Research, & Evaluation Bureau, Division of Research & Epidemiology

Infant Mortality Rates by Race/Ethnicity
Springfield and Massachusetts: 2002-2005

Deaths per 1000 live births

Springfield
- White non-Hispanic: 5.5
- Black non-Hispanic: 6.2
- Hispanic: NA
- Asian non-Hispanic: 3.0

Massachusetts
- White non-Hispanic: 4.1*
- Black non-Hispanic: 11.3*
- Hispanic: 7.0*
- Asian non-Hispanic: 3.0*

State Overall: 4.9

Statistically different from State (p ≤ 0.05)

Source: MDPH, Bureau of Health Information, Statistics, Research, & Evaluation Bureau, Division of Research & Epidemiology
Low Birthweight by Race and Ethnicity
Western Region and Massachusetts: 2005

(*) Statistically different from State (p ≤ 0.05)
Low birthweight: less than 2,500 grams or 5.5 pounds
Source: MDPH, Bureau of Health Information, Statistics, Research, & Evaluation Bureau, Division of Research & Epidemiology

Breastfeeding in Western Region and Massachusetts by Race/Ethnicity: 2005

(*) Statistically different from State (p ≤ 0.05)
Low birthweight: less than 2,500 grams or 5.5 pounds
Source: MDPH, Bureau of Health Information, Statistics, Research, & Evaluation Bureau, Division of Research & Epidemiology
Teen Birth Rates by Race and Ethnicity
Western Region and Massachusetts: 2005

Teen Birth Rate: the number of births to women ages 15-19 per 1,000 women ages 15-19.

Source: MDPH, Bureau of Health Information, Statistics, Research & Evaluation Bureau, Division of Research & Epidemiology

(*) Statistically different from State (p ≤ .05)

Teen Birth Rates by Race and Ethnicity
Berkshires and Massachusetts: 2005

Teen Birth Rate: the number of births to women ages 15-19 per 1,000 women ages 15-19.

Source: MDPH, Bureau of Health Information, Statistics, Research & Evaluation Bureau, Division of Research & Epidemiology

(*) Statistically different from State (p ≤ .05)
CHRONIC DISEASE OUTCOMES AND OVERWEIGHT/OBESITY
Overweight\textsuperscript{1} by Race and Ethnicity
Western Region and Massachusetts: 2005

\begin{itemize}
  \item White non-Hispanic
  \item Black non-Hispanic
  \item Hispanic
\end{itemize}

\begin{figure}
\centering
\includegraphics[width=\textwidth]{overweight_chart.png}
\caption{Overweight\textsuperscript{1} by Race and Ethnicity Western Region and Massachusetts: 2005}
\end{figure}

\textsuperscript{(*)} Statistically different from State (p ≤ 0.05)

\textsuperscript{1} Overweight: BMI greater than or equal to 25

Source: MDPH, Bureau of Health Information, Statistics, Research, and Evaluation, Massachusetts Behavioral Risk Factor Surveillance System (BRFSS), Health Survey Program

Hypertension Hospital Discharge Rate by Race/Ethnicity
Western Region Massachusetts: 2003-2005

\begin{itemize}
  \item White non-Hispanic
  \item Black non-Hispanic
  \item Hispanic
  \item Asian non-Hispanic
\end{itemize}

\begin{figure}
\centering
\includegraphics[width=\textwidth]{hypertension_chart.png}
\caption{Hypertension Hospital Discharge Rate by Race/Ethnicity Western Region Massachusetts: 2003-2005}
\end{figure}

\textsuperscript{(*)} Statistically different from State (p ≤ 0.05)

Age-adjusted to the 2000 US standard population.

Source: Division of Health Care Finance and Policy. Calendar Year 2003-2005. Inpatient Hospital Discharge Database
Heart Disease Death Rate by Race/Ethnicity
Western Region and Massachusetts: 2003-2005

* White non-Hispanic  * Black non-Hispanic
* Hispanic  * Asian non-Hispanic

Western Region
- White non-Hispanic: 188
- Black non-Hispanic: 160
- Hispanic: 70*
- Asian non-Hispanic: 104*

Massachusetts
- White non-Hispanic: 185
- Black non-Hispanic: 209*
- Hispanic: 104*
- Asian non-Hispanic: 68*

State Overall: 183

(*) Statistically different from State (p ≤ 0.05)
Age-adjusted to the 2000 US standard population.
Source: MDPH, Bureau of Health Information, Statistics, Research, & Evaluation, Division of Research & Epidemiology

Diabetes Hospital Discharge Rate by Race/Ethnicity
Western Region and Massachusetts: 2003-2005

* White non-Hispanic  * Black non-Hispanic
* Hispanic  * Asian non-Hispanic

Western Region
- White non-Hispanic: 452*
- Black non-Hispanic: 396*
- Hispanic: 114*
- Asian non-Hispanic: 45*

Massachusetts
- White non-Hispanic: 368*
- Black non-Hispanic: 242*
- Hispanic: 114*
- Asian non-Hispanic: 45*

State Overall: 133

(*) Statistically different from State (p ≤ 0.05)
Age-adjusted to the 2000 US standard population.
Source: Division of Health Care Finance and Policy. Calendar Year 2003-2005. Inpatient Hospital Discharge Database
Diabetes Hospital Discharge Rate by Race/Ethnicity
Berkshires, Pittsfield & Massachusetts: 2003-2005

(*) Statistically different from State (p ≤ 0.05)
Age-adjusted to the 2000 US standard population.
Source: Division of Health Care Finance and Policy. Calendar Year 2003-2005. Inpatient Hospital Discharge Database

Diabetes Death Rate by Race/Ethnicity
Western Region and Massachusetts: 2003-2005

(*) Statistically different from State (p ≤ 0.05)
Age-adjusted to the 2000 US standard population.
Source: MDPH, Bureau of Health Information, Statistics, Research, & Evaluation, Division of Research & Epidemiology
CANCER
Women who had a Clinical Breast Exam in Past Two Years by Race and Ethnicity Western Region and Massachusetts: 2004

Western Region

<table>
<thead>
<tr>
<th>Race/Ethnicity</th>
<th>White non-Hispanic</th>
<th>Black non-Hispanic</th>
<th>Hispanic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall</td>
<td>86</td>
<td>76</td>
<td>74</td>
</tr>
<tr>
<td>White non-Hispanic</td>
<td>88</td>
<td>81</td>
<td>78</td>
</tr>
<tr>
<td>Overall</td>
<td>87</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

(*) Statistically different from State (p ≤ 0.05)
Source: MDPH, Bureau of Health Information, Statistics, Research, & Evaluation, Health Survey Program

Current Smoker by Race and Ethnicity Western Region and Massachusetts: 2005

Western Region

<table>
<thead>
<tr>
<th>Race/Ethnicity</th>
<th>White non-Hispanic</th>
<th>Black non-Hispanic</th>
<th>Hispanic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall</td>
<td>19</td>
<td>17</td>
<td>18</td>
</tr>
<tr>
<td>White non-Hispanic</td>
<td>18</td>
<td>16</td>
<td>18</td>
</tr>
<tr>
<td>Overall</td>
<td>18</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

(*) Statistically different from State (p ≤ 0.05)
Source: MDPH, Bureau of Health Information, Statistics, Research, & Evaluation, Health Survey Program
Smoking During Pregnancy
by Race and Ethnicity
Western Region, Berkshires, and Massachusetts: 2005

Source: MDPH, Bureau of Health Information, Statistics, Research, & Evaluation, Division of Research & Epidemiology

(*) Statistically different from State (p ≤ .05)
SUBSTANCE ABUSE
Substance Abuse Treatment Program Admissions - Alcohol Primary Substance by Race/Ethnicity Berkshires and Massachusetts: 2005

<table>
<thead>
<tr>
<th>Race/Ethnicity</th>
<th>Berkshires</th>
<th>Massachusetts</th>
</tr>
</thead>
<tbody>
<tr>
<td>White non-Hispanic</td>
<td>1,344*</td>
<td>671</td>
</tr>
<tr>
<td>Black non-Hispanic</td>
<td>1,317*</td>
<td>633*</td>
</tr>
<tr>
<td>Hispanic</td>
<td>NA</td>
<td>85*</td>
</tr>
<tr>
<td>Asian non-Hispanic</td>
<td>2,842*</td>
<td>1,179*</td>
</tr>
</tbody>
</table>

(*) Statistically different from State (p ≤ 0.05)
Age-adjusted to the 2000 US standard population.
Source: Division of Health Care Finance and Policy. Calendar Year 2003-2005. Emergency Department Visits

Opioid-Related Emergency Department Visit Rates by Race/Ethnicity Western Region and Massachusetts: 2003-2005

<table>
<thead>
<tr>
<th>Race/Ethnicity</th>
<th>Western Region</th>
<th>Massachusetts</th>
</tr>
</thead>
<tbody>
<tr>
<td>White non-Hispanic</td>
<td>95*</td>
<td>85*</td>
</tr>
<tr>
<td>Black non-Hispanic</td>
<td>89*</td>
<td>NA</td>
</tr>
<tr>
<td>Hispanic</td>
<td>187*</td>
<td>188</td>
</tr>
<tr>
<td>Asian non-Hispanic</td>
<td>286*</td>
<td>237*</td>
</tr>
</tbody>
</table>

(*) Statistically different from State (p ≤ 0.05)
Age-adjusted to the 2000 US standard population.
Source: Division of Health Care Finance and Policy. Calendar Year 2003-2005. Emergency Department Visits
Opioid-Related Fatal Overdoses by Race/Ethnicity Region and Massachusetts: 2003-2005

Western Region Massachusetts

- White non-Hispanic
- Black non-Hispanic
- Hispanic
- Asian non-Hispanic

Deaths per 100,000

(*) Statistically different from State (p ≤ .05)
Age-adjusted to the 2000 US standard population.
Source: MDPH, Bureau of Health Information, Statistics, Research, & Evaluation, Division of Research & Epidemiology.

Western Region: 6* (NA), 13 (NA)
Massachusetts: 9 (7), 9 (1*)
State Overall: 8
INJURY AND VIOLENCE
Injury-Related Hospital Discharge Rates by Race/Ethnicity, Western Region and Massachusetts: 2003-2005

Emergency Department Visit Rates for Injuries & Poisonings by Race/Ethnicity Western Region and Massachusetts: 2003-2005
Injury Death Rates by Race/Ethnicity
Western Region and Massachusetts: 2003-2005

Western Region
- White non-Hispanic: 42
- Black non-Hispanic: 44
- Hispanic: 51*
- Asian non-Hispanic: 30

Massachusetts
- White non-Hispanic: 39
- Black non-Hispanic: 35
- Hispanic: 47*
- Asian non-Hispanic: 19*

(*) Statistically different from State (p ≤ 0.05)
Age-adjusted to the 2000 US standard population.
Source: MDPH, Bureau of Health Information, Statistics, Research, & Evaluation, Division of Research & Epidemiology

Emergency Department Visit Rates for Firearm Injuries by Race/Ethnicity
Western Region and Massachusetts: 2003-2005

Western Region
- White non-Hispanic: 84*
- Black non-Hispanic: 36*
- Hispanic: NA
- Asian non-Hispanic: 3*

Massachusetts
- White non-Hispanic: 38*
- Black non-Hispanic: 19*
- Hispanic: 2*
- Asian non-Hispanic: 3*

(*) Statistically different from State (p ≤ 0.05)
Age-adjusted to the 2000 US standard population.
Source: Division of Health Care Finance and Policy. Calendar Year 2003-2005. Emergency Department Visits
Firearm Death Rates by Race/Ethnicity
Western Region and Massachusetts: 2003-2005

Western Region

<table>
<thead>
<tr>
<th>Race/Ethnicity</th>
<th>Deaths per 100,000</th>
</tr>
</thead>
<tbody>
<tr>
<td>White non-Hispanic</td>
<td>10*</td>
</tr>
<tr>
<td>Black non-Hispanic</td>
<td>6</td>
</tr>
<tr>
<td>Hispanic</td>
<td>NA</td>
</tr>
<tr>
<td>Asian non-Hispanic</td>
<td>2*</td>
</tr>
</tbody>
</table>

Massachusetts

<table>
<thead>
<tr>
<th>Race/Ethnicity</th>
<th>Deaths per 100,000</th>
</tr>
</thead>
<tbody>
<tr>
<td>White non-Hispanic</td>
<td>13*</td>
</tr>
<tr>
<td>Black non-Hispanic</td>
<td>4</td>
</tr>
<tr>
<td>Hispanic</td>
<td>2*</td>
</tr>
<tr>
<td>Asian non-Hispanic</td>
<td>1*</td>
</tr>
</tbody>
</table>

State Overall: 3

(*) Statistically different from State (p ≤ 0.05)
Age-adjusted to the 2000 US standard population.
Source: MDPH, Bureau of Health Information, Statistics, Research, & Evaluation, Division of Research & Epidemiology

Homicide Rates by Race/Ethnicity
Western Region and Massachusetts: 2003-2005

Western Region

<table>
<thead>
<tr>
<th>Race/Ethnicity</th>
<th>Deaths per 100,000</th>
</tr>
</thead>
<tbody>
<tr>
<td>White non-Hispanic</td>
<td>16*</td>
</tr>
<tr>
<td>Black non-Hispanic</td>
<td>8*</td>
</tr>
<tr>
<td>Hispanic</td>
<td>NA</td>
</tr>
<tr>
<td>Asian non-Hispanic</td>
<td>1*</td>
</tr>
</tbody>
</table>

Massachusetts

<table>
<thead>
<tr>
<th>Race/Ethnicity</th>
<th>Deaths per 100,000</th>
</tr>
</thead>
<tbody>
<tr>
<td>White non-Hispanic</td>
<td>15*</td>
</tr>
<tr>
<td>Black non-Hispanic</td>
<td>6*</td>
</tr>
<tr>
<td>Hispanic</td>
<td>2</td>
</tr>
<tr>
<td>Asian non-Hispanic</td>
<td>2</td>
</tr>
</tbody>
</table>

State Overall: 3

(*) Statistically different from State (p ≤ 0.05)
Age-adjusted to the 2000 US standard population.
Source: MDPH, Bureau of Health Information, Statistics, Research, & Evaluation, Division of Research & Epidemiology
Hospital Discharge Rates for Assaults by Race/Ethnicity Western Region and Massachusetts: 2003-2005

Western Region Massachusetts

White non-Hispanic  Black non-Hispanic  Hispanic  Asian non-Hispanic

Discharges per 100,000

State Overall: 27

Western Region Massachusetts

White non-Hispanic  Black non-Hispanic  Hispanic  Asian non-Hispanic

Discharges per 100,000

State Overall: 65

(*) Statistically different from State (p ≤ 0.05)
Crude rates
Source: Division of Health Care Finance and Policy. Calendar Year 2003-2005. Inpatient Hospital Discharge Database
Suicide Rates by Race/Ethnicity
Western Region and Massachusetts: 2003-2005

State Overall: 7

Western Region

Deaths per 100,000

White non-Hispanic
Black non-Hispanic
Hispanic
Asian non-Hispanic

NA

Massachusetts

7

4*

5

(*) Statistically different from State (p ≤ 0.05)
Age-adjusted to the 2000 US standard population.
Source: MDPH, Bureau of Health Information, Statistics, Research, & Evaluation, Division of Research & Epidemiology

Hospital Discharge Rates – Traumatic Brain Injury by Race/Ethnicity
Western Region and Massachusetts: 2003-2005

State Overall: 80

Western Region

Discharges per 100,000

White non-Hispanic
Black non-Hispanic
Hispanic
Asian non-Hispanic

86*

102*

22*

82

Massachusetts

112*

76*

39*

State Overall: 80

(*) Statistically different from State (p ≤ 0.05)
Age-adjusted to the 2000 US standard population.
Source: Division of Health Care Finance and Policy. Calendar Year 2003-2005. Inpatient Hospital Discharge Database
Emergency Department Visit Rates
Traumatic Brain Injury by Race/Ethnicity
Western Region and Massachusetts: 2003-2005

Visits per 100,000

Western Region Massachusetts

White non-Hispanic Black non-Hispanic Hispanic Asian non-Hispanic

State Overall: 604

516* 497* 588

159* 215*

(*) Statistically different from State (p ≤ .05)
Age-adjusted to the 2000 US standard population.
Source: Division of Health Care Finance and Policy. Calendar Year 2003-2005. Emergency Department Visits

Hospital Discharge Rates for Motor Vehicle-Related Injuries by Race/Ethnicity, Western Region, Berkshires, and Massachusetts: 2003-2005

Discharges per 100,000

Western Region Berkshires Massachusetts

White non-Hispanic Black non-Hispanic Hispanic Asian non-Hispanic

State Overall: 77

89* 116* 108*

28* NA NA

90* 81

(*) Statistically different from State (p ≤ .05)
Age-adjusted to the 2000 US standard population.
Source: Division of Health Care Finance and Policy. Calendar Year 2003-2005. Inpatient Hospital Discharge Database
Hospital Discharge Rates for Fall-Related Injuries by Race/Ethnicity, Western Region and Massachusetts: 2003-2005

- **Western Region**
  - White non-Hispanic: 339* 232* 240*
  - Black non-Hispanic: 132*
  - Hispanic: 234* 216*
  - Asian non-Hispanic: 144*

- **Massachusetts**
  - Overall: 375

(*) Statistically different from State (p ≤ 0.05)
Age-adjusted to the 2000 US standard population.
Source: Division of Health Care Finance and Policy. Calendar Year 2003-2005. Inpatient Hospital Discharge Database

---

Emergency Department Visit Rates for Fall-Related Injuries by Race/Ethnicity, Western Region and Massachusetts: 2003-2005

- **Western Region**
  - White non-Hispanic: 2,849* 2,898*
  - Black non-Hispanic: 3,443*
  - Hispanic: 758*
  - Asian non-Hispanic: 784*

- **Massachusetts**
  - Overall: 2,783*

(*) Statistically different from State (p ≤ 0.05)
Age-adjusted to the 2000 US standard population.
Source: Division of Health Care Finance and Policy. Calendar Year 2003-2005. Emergency Department Visits
Fall-related Injury Death Rates by Race/Ethnicity
Western Region and Massachusetts: 2003-2005

Western Region Massachusetts
Deaths per 100,000

White non-Hispanic  Black non-Hispanic  Hispanic  Asian non-Hispanic

State Overall: 4
Western Region: 3  NA  NA  NA
Massachusetts: 4  3  2  3

(*) Statistically different from State (p ≤ 0.05)
Age-adjusted to the 2000 US standard population.
Source: MDPH, Health Information, Statistics, Research & Evaluation Bureau, Research & Epidemiology Program
HIV/AIDS
HIV/AIDS Death Rate by Race/Ethnicity
Western Region and Massachusetts: 2003-2005

Western Region

Deaths per 100,000

0 5 10 15 20 25 30 35

White non-Hispanic
Black non-Hispanic
Hispanic
Asian non-Hispanic

* Statistically different from State (p ≤ 0.05)

Age-adjusted to the 2000 US standard population.
Source: MDPH, Bureau of Health Information, Statistics, Research, & Evaluation, Division of Research & Epidemiology

State Overall: 3
ASTHMA
Emergency Department Visit Rates for Asthma by Race/Ethnicity
Western Region and Massachusetts: 2005

Western Region Massachusetts

Visits per 100,000

White non-Hispanic Black non-Hispanic Hispanic Asian non-Hispanic

498* 1,469*
1,562* 194*
1,251* 141*

(*) Statistically different from State (p ≤ 0.05)
Age-adjusted to the 2000 US standard population.
Source: Division of Health Care Finance and Policy. Calendar Year 2005. Emergency Department Visits

Asthma Emergency Department Visit Rates by Race and Ethnicity, Children Ages 0-14
Western Region and Massachusetts: 2005

Western Region Massachusetts

Visits per 100,000

White non-Hispanic Black non-Hispanic Hispanic Asian non-Hispanic

569* 1,683*
1,635* 238*
516* 356*

(*) Statistically different from State (p ≤ 0.05)
Source: Division of Health Care Finance and Policy. Calendar Year 2005. Emergency Department Visits
Asthma Emergency Department Visit Rates by Race and Ethnicity, Children Ages 0-14
Berkshires and Massachusetts: 2005

<table>
<thead>
<tr>
<th>Race/Ethnicity</th>
<th>Berkshires</th>
<th>Massachusetts</th>
</tr>
</thead>
<tbody>
<tr>
<td>White non-Hispanic</td>
<td>507*</td>
<td>516*</td>
</tr>
<tr>
<td>Black non-Hispanic</td>
<td>1,927*</td>
<td>2,096*</td>
</tr>
<tr>
<td>Hispanic</td>
<td>NA</td>
<td>1,573*</td>
</tr>
<tr>
<td>Asian non-Hispanic</td>
<td>356*</td>
<td>NA</td>
</tr>
</tbody>
</table>

(*) Statistically different from State (p ≤ 0.05)

Source: Division of Health Care Finance and Policy. Calendar Year 2005. Emergency Department Visits.
PREMATURE MORTALITY
Premature Mortality Rate (PMR)¹

- **Definition**
  - deaths before age 75

- **Rationale**
  - two-thirds of deaths to persons ages 75+
  - vast majority of deaths to persons age 75+ are due to chronic conditions associated with aging
  - focusing on deaths to persons less than 75 years may be more preventable

- **Summary health statistic**
  - excellent measure to reflect the health status of a population
  - used as a health status indicator that can be used to focus prevention initiatives and target programs

¹ Rates are per 100,000 population. Age-adjusted to the 2000 US standard population under 75 years of age.
Source: MDPH, Bureau of Health Information, Statistics, Research, & Evaluation, Division of Research & Epidemiology

---

Premature Mortality Rate by Race/Ethnicity Western Region and Massachusetts: 2003-2005

<table>
<thead>
<tr>
<th></th>
<th>Western Region</th>
<th>Massachusetts</th>
</tr>
</thead>
<tbody>
<tr>
<td>White non-Hispanic</td>
<td>341</td>
<td>321</td>
</tr>
<tr>
<td>Black non-Hispanic</td>
<td>579*</td>
<td>487*</td>
</tr>
<tr>
<td>Hispanic</td>
<td>452*</td>
<td>298*</td>
</tr>
<tr>
<td>Asian non-Hispanic</td>
<td></td>
<td>139*</td>
</tr>
<tr>
<td>Native Am. non-Hispanic</td>
<td>NA</td>
<td>154*</td>
</tr>
</tbody>
</table>

(*) Statistically different from State (p ≤ .05)
Age-adjusted to the 2000 US standard population under 75 years of age.
Source: MDPH, Bureau of Health Information, Statistics, Research, & Evaluation, Division of Research & Epidemiology
II. CENTRAL REGION
SOCIODEMOGRAPHIC INDICATORS AND HEALTH CARE ACCESS AND STATUS
Population in Towns in Central Region: 2005

Smallest
New Braintree: 1,090

Largest
Worcester: 179,839

Source: MDPH, Bureau of Health Information, Statistics, Research, & Evaluation, Division of Research & Epidemiology

Race and Ethnic Breakdown of Population
Central Region and Massachusetts: 2005

Central Region
- Hispanic: 7.3%
- Asian*: 3.3%
- American Indian*: 0.3%
- White*: 86.0%

Massachusetts
- Hispanic: 4.9%
- Asian*: 6.0%
- American Indian*: 0.2%
- White*: 81.0%

Population Total = 806,015
Population Total = 6,349,097

* Non-Hispanics

Source: MDPH, Bureau of Health Information, Statistics, Research, & Evaluation, Division of Research & Epidemiology
Race and Ethnic Breakdown of Population
Worcester and Massachusetts: 2005

Worcester

- White*, 66.7%
- Hispanic, 17.4%
- Black*, 8.6%
- Asian*, 7.0%
- American Indian*, 0.4%

Population Total = 172,648

Massachusetts

- White*, 81.0%
- Hispanic, 7.9%
- Black*, 6.0%
- Asian*, 4.9%
- American Indian*, 0.2%

Population Total = 6,349,097

* Non-Hispanics

Source: MDPH, Bureau of Health Information, Statistics, Research, & Evaluation, Division of Research & Epidemiology

Population by Age Group
Central Region and Massachusetts: 2005

Central Region

- 0-19 years, 27.4%
- 20-24 years, 6.0%
- 25-44 years, 29.8%
- 45-64 years, 25.0%
- 65+ years, 11.9%

Massachusetts

- 0-19 years, 25.5%
- 20-24 years, 6.7%
- 25-44 years, 29.4%
- 45-64 years, 25.3%
- 65+ years, 13.3%

Source: MDPH, Bureau of Health Information, Statistics, Research, & Evaluation, Division of Research & Epidemiology

81
### Language Spoken at Home
Central Region and Massachusetts: 2000

<table>
<thead>
<tr>
<th>Language</th>
<th>Central Region</th>
<th>Massachusetts Overall</th>
</tr>
</thead>
<tbody>
<tr>
<td>Only English</td>
<td>85.7</td>
<td>81.3</td>
</tr>
<tr>
<td>Spanish or Spanish Creole</td>
<td>5.8</td>
<td>6.2</td>
</tr>
<tr>
<td>Portuguese or Portuguese Creole</td>
<td>0.7</td>
<td>2.7</td>
</tr>
<tr>
<td>French</td>
<td>1.9</td>
<td>1.4</td>
</tr>
<tr>
<td>Chinese</td>
<td>0.3</td>
<td>1.2</td>
</tr>
<tr>
<td>Italian</td>
<td>0.6</td>
<td>1.0</td>
</tr>
<tr>
<td>African Languages</td>
<td>0.4</td>
<td>0.2</td>
</tr>
<tr>
<td>Russian</td>
<td>0.2</td>
<td>0.6</td>
</tr>
<tr>
<td>Vietnamese</td>
<td>0.7</td>
<td>0.5</td>
</tr>
<tr>
<td>Polish</td>
<td>0.7</td>
<td>0.5</td>
</tr>
</tbody>
</table>

Source: MDPH, Bureau of Health Information, Statistics, Research, & Evaluation, Division of Research & Epidemiology

### Socio-Demographic Indicators
Central Region and Massachusetts: 2000

<table>
<thead>
<tr>
<th>Indicator</th>
<th>Central Region</th>
<th>Massachusetts Overall</th>
</tr>
</thead>
<tbody>
<tr>
<td>Per Capita Income (2000)</td>
<td>$22,775</td>
<td>$25,952</td>
</tr>
<tr>
<td>Those living below 100% poverty (2000)</td>
<td>8.8%</td>
<td>9.3%</td>
</tr>
<tr>
<td>Children &lt; 18 living below 100% poverty (2000)</td>
<td>11.2%</td>
<td>11.6%</td>
</tr>
<tr>
<td>Less than a High School Education (2000)</td>
<td>16.2%</td>
<td>15.2%</td>
</tr>
<tr>
<td>Foreign born (2000)</td>
<td>7.4%</td>
<td>12.2%</td>
</tr>
<tr>
<td>Unemployed (2004)</td>
<td>5.4%</td>
<td>5.1%</td>
</tr>
</tbody>
</table>

Source: MDPH, Bureau of Health Information, Statistics, Research, & Evaluation, Division of Research & Epidemiology
Adults who Have No Health Insurance by Race and Ethnicity
Central Region and Massachusetts: 2005

<table>
<thead>
<tr>
<th>Race/Ethnicity</th>
<th>Central Region</th>
<th>Massachusetts</th>
</tr>
</thead>
<tbody>
<tr>
<td>White non-Hispanic</td>
<td>5.2*</td>
<td>NA</td>
</tr>
<tr>
<td>Black non-Hispanic</td>
<td>12.7</td>
<td>11.5</td>
</tr>
<tr>
<td>Hispanic</td>
<td>23.8*</td>
<td></td>
</tr>
</tbody>
</table>

State Overall: 8.9

Source: MDPH, Bureau of Health Information, Statistics, Research & Evaluation, Health Survey Program

(*) Statistically different from State (p ≤ 0.05)

---

Adults who Reported Fair or Poor Health by Race and Ethnicity
Central Region and Massachusetts: 2005

<table>
<thead>
<tr>
<th>Race/Ethnicity</th>
<th>Central Region</th>
<th>Massachusetts</th>
</tr>
</thead>
<tbody>
<tr>
<td>White non-Hispanic</td>
<td>15</td>
<td>12</td>
</tr>
<tr>
<td>Black non-Hispanic</td>
<td>NA</td>
<td>17</td>
</tr>
<tr>
<td>Hispanic</td>
<td>20*</td>
<td>23*</td>
</tr>
</tbody>
</table>

State Overall: 13

Source: MDPH, Bureau of Health Information, Statistics, Research & Evaluation, Health Survey Program

(*) Statistically different from State (p ≤ 0.05)
BIRTH OUTCOMES
Infant Mortality Rates by Race/Ethnicity
Central Region and Massachusetts: 2002-2005

NA= Calculations based on less than 5 events are excluded

(*) Statistically different from State (p ≤ 0.05)

Source: MDPH, Bureau of Health Information, Statistics, Research, & Evaluation, Division of Research & Epidemiology

Infant Mortality Rates by Race and Ethnicity
Worcester: 1990-2005

Rate = infant deaths per 1,000 live births.
-- Calculations based on less than 5 events are excluded.

Source: MDPH, Bureau of Health Information, Statistics, Research, & Evaluation, Division of Research & Epidemiology
Low Birthweight by Race and Ethnicity
Central Region and Massachusetts: 2005

- White non-Hispanic
- Black non-Hispanic
- Hispanic
- Asian non-Hispanic

Low birthweight: less than 2,500 grams or 5.5 pounds

(*) Statistically different from State (p ≤ 0.05)

Source: MDPH, Bureau of Health Information, Statistics, Research, & Evaluation Bureau, Division of Research & Epidemiology

Breastfeeding by Race/Ethnicity
Central Region and Massachusetts: 2005

- White non-Hispanic
- Black non-Hispanic
- Hispanic
- Asian non-Hispanic

Low birthweight: less than 2,500 grams or 5.5 pounds

(*) Statistically different from State (p ≤ 0.05)

Source: MDPH, Bureau of Health Information, Statistics, Research, & Evaluation Bureau, Division of Research & Epidemiology
Teen Birth Rates by Race and Ethnicity
Central Region and Massachusetts: 2005

Teens Birth Rate: the number of births to women ages 15-19 per 1,000 women ages 15-19.

Source: MDPH, Bureau of Health Information, Statistics, Research, & Evaluation, Division of Research & Epidemiology

(*) Statistically different from State (p ≤ .05)
CHRONIC DISEASE OUTCOMES AND OVERWEIGHT/OBESITY
Obesity by Race and Ethnicity
Central Region and Massachusetts: 2005

<table>
<thead>
<tr>
<th>Race/Ethnicity</th>
<th>Central Region</th>
<th>Massachusetts</th>
</tr>
</thead>
<tbody>
<tr>
<td>White non-Hispanic</td>
<td>22</td>
<td>NA</td>
</tr>
<tr>
<td>Black non-Hispanic</td>
<td>24</td>
<td>33*</td>
</tr>
<tr>
<td>Hispanic</td>
<td>20</td>
<td>27*</td>
</tr>
</tbody>
</table>

State Overall: 21

(*) Statistically different from State (p ≤ .05)

Source: MDPH, Bureau of Health Information, Statistics, Research, & Evaluation, Health Survey Program

Hypertension Hospital Discharge Rates by Race/Ethnicity
Central Region Massachusetts: 2003-2005

<table>
<thead>
<tr>
<th>Race/Ethnicity</th>
<th>Central Region</th>
<th>Massachusetts</th>
</tr>
</thead>
<tbody>
<tr>
<td>White non-Hispanic</td>
<td>171*</td>
<td>176*</td>
</tr>
<tr>
<td>Black non-Hispanic</td>
<td>71*</td>
<td>89*</td>
</tr>
<tr>
<td>Hispanic</td>
<td>33*</td>
<td>33*</td>
</tr>
<tr>
<td>Asian non-Hispanic</td>
<td>26*</td>
<td>28*</td>
</tr>
</tbody>
</table>

State Overall: 39

(*) Statistically different from State (p ≤ .05)

Age-adjusted to the 2000 US standard population.

Source: Division of Health Care Finance and Policy. Calendar Year 2003-2005. Inpatient Hospital Discharge Database
Heart Disease Death Rates by Race/Ethnicity
Central Region and Massachusetts: 2003-2005

<table>
<thead>
<tr>
<th>Race/Ethnicity</th>
<th>Central Region</th>
<th>Massachusetts</th>
</tr>
</thead>
<tbody>
<tr>
<td>White non-Hispanic</td>
<td>198*</td>
<td>185</td>
</tr>
<tr>
<td>Black non-Hispanic</td>
<td>186</td>
<td>152</td>
</tr>
<tr>
<td>Hispanic</td>
<td>77*</td>
<td>104*</td>
</tr>
<tr>
<td>Asian non-Hispanic</td>
<td></td>
<td>68*</td>
</tr>
</tbody>
</table>

(*) Statistically different from State (p ≤ .05)
Age-adjusted to the 2000 US standard population.
Source: MDPH, Bureau of Health Information, Statistics, Research, & Evaluation, Division of Research & Epidemiology

Diabetes Hospital Discharge Rates by Race/Ethnicity
Central Region Massachusetts: 2003-2005

<table>
<thead>
<tr>
<th>Race/Ethnicity</th>
<th>Central Region</th>
<th>Massachusetts</th>
</tr>
</thead>
<tbody>
<tr>
<td>White non-Hispanic</td>
<td>333*</td>
<td>368*</td>
</tr>
<tr>
<td>Black non-Hispanic</td>
<td>203*</td>
<td>114*</td>
</tr>
<tr>
<td>Hispanic</td>
<td>35*</td>
<td>45*</td>
</tr>
<tr>
<td>Asian non-Hispanic</td>
<td>108*</td>
<td>242*</td>
</tr>
</tbody>
</table>

(*) Statistically different from State (p ≤ .05)
Age-adjusted to the 2000 US standard population.
Source: Division of Health Care Finance and Policy. Calendar Year 2003-2005. Inpatient Hospital Discharge Database
Diabetes Mortality Rates by Race/Ethnicity
Central Region and Massachusetts: 2003-2005

Deaths per 100,000

White non-Hispanic
Black non-Hispanic
Hispanic
Asian non-Hispanic

Central Region
Massachusetts

22*
37
37
State
Overall: 18

38*
29*
17
14

(*) Statistically different from State (p ≤ 0.05)
Age-adjusted to the 2000 US standard population.
Source: MDPH, Bureau of Health Information, Statistics, Research, & Evaluation, Division of Research & Epidemiology
CANCER
Women who had a Clinical Breast Exam in the Past Two Years by Race & Ethnicity: 2004

Central Region and Massachusetts

- **White non-Hispanic**: 86%
- **Black non-Hispanic**: 83%
- **Hispanic**: 88%

Source: MDPH, Bureau of Health Information, Statistics, Research, & Evaluation, Health Survey Program

(*) Statistically different from State (p ≤ .05)

Smoking During Pregnancy by Race and Ethnicity: 2005

Central Region and Massachusetts

- **White non-Hispanic**: 8.3%
- **Black non-Hispanic**: 4.3%
- **Hispanic**: 6.3%
- **Asian non-Hispanic**: NA

Source: MDPH, Bureau of Health Information, Statistics, Research, & Evaluation, Division of Research & Epidemiology

(*) Statistically different from State (p ≤ .05)
SUBSTANCE ABUSE
Opioid-Related Emergency Department Visit Rate by Race/Ethnicity
Central Region and Massachusetts: 2003-2005

Visits per 100,000

- Worcester
- Central, no Worcester
- Massachusetts

(*) Statistically different from State (p ≤ .05)
Age-adjusted to the 2000 US standard population.

Opioid-Related Fatal Overdoses by Race/Ethnicity
Central Region and Massachusetts: 2003-2005

Deaths per 100,000

- Central Region
- Massachusetts

(*) Statistically different from State (p ≤ .05)
Age-adjusted to the 2000 US standard population.
Source: MDPH, Bureau of Health Information, Statistics, Research, & Evaluation, Division of Research & Epidemiology
INJURY AND VIOLENCE
Injury-related Hospital Discharge Rates by Race/Ethnicity
Central Region & Massachusetts: 2003-2005

Central Region Massachusetts

White non-Hispanic Black non-Hispanic Hispanic Asian non-Hispanic

State Overall: 836

Emergency Department Visit Rates for Injuries & Poisonings by Race/Ethnicity
Central Region and Massachusetts: 2003-2005

Central Region Massachusetts

White non-Hispanic Black non-Hispanic Hispanic Asian non-Hispanic

State Overall: 11,298

(*) Statistically different from State (p ≤ 0.05)
Age-adjusted to the 2000 US standard population.
Source: Division of Health Care Finance and Policy. Calendar Year 2003-2005. Hospital Discharges

Hospital Discharge Rates – Traumatic Brain Injury by Race/Ethnicity
Central Region and Massachusetts: 2003-2005

- White non-Hispanic
- Black non-Hispanic
- Hispanic
- Asian non-Hispanic

Visits per 100,000

Central Region
- State: 95*, 102, 109*

Massachusetts
- State: 32*, 76*, 85

Overall: 80

(*) Statistically different from State (p ≤ 0.05)
Age-adjusted to the 2000 US standard population.
Source: Division of Health Care Finance and Policy. Calendar Year 2003-2005. Hospital Discharges

Emergency Department Visit Rates
Traumatic Brain Injury by Race/Ethnicity
Central Region and Massachusetts: 2003-2005

- White non-Hispanic
- Black non-Hispanic
- Hispanic
- Asian non-Hispanic

Visits per 100,000

Central Region
- State: 643*, 621, 745*

Massachusetts
- State: 249*, 595*, 588

Overall: 604

(*) Statistically different from State (p ≤ 0.05)
Age-adjusted to the 2000 US standard population.
Hospital Discharge Rates for Assaults by Race/Ethnicity
Central Region and Massachusetts: 2003-2005

Crude rates
Source: Division of Health Care Finance and Policy. Calendar Year 2003-2005. Hospital Discharges

Homicide Rates by Race/Ethnicity
Central Region and Massachusetts: 2003-2005

Age-adjusted to the 2000 US standard population.
Source: MDPH, Bureau of Health Information, Statistics, Research, & Evaluation, Division of Research & Epidemiology

(*) Statistically different from State (p ≤ 0.05)
Hospital Discharge Rates for Self-inflicted Injuries by Race/Ethnicity, Central Region and Massachusetts: 2003-2005

Central Region Massachusetts

<table>
<thead>
<tr>
<th></th>
<th>White non-Hispanic</th>
<th>Black non-Hispanic</th>
<th>Hispanic</th>
<th>Asian non-Hispanic</th>
</tr>
</thead>
<tbody>
<tr>
<td>State</td>
<td>Overall: 65</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Discharges per 100,000</td>
<td>63</td>
<td>50</td>
<td>73</td>
<td>64</td>
</tr>
<tr>
<td></td>
<td>24*</td>
<td>24*</td>
<td>24*</td>
<td>17*</td>
</tr>
</tbody>
</table>

(*) Statistically different from State (p ≤ .05)
Age-adjusted to the 2000 US standard population.
Source: Division of Health Care Finance and Policy. Calendar Year 2003-2005. Hospital Discharges

Suicide Rates by Race/Ethnicity Central Region and Massachusetts: 2003-2005

Central Region Massachusetts

<table>
<thead>
<tr>
<th></th>
<th>White non-Hispanic</th>
<th>Black non-Hispanic</th>
<th>Hispanic</th>
<th>Asian non-Hispanic</th>
</tr>
</thead>
<tbody>
<tr>
<td>State</td>
<td>Overall: 7</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Deaths per 100,000</td>
<td>8</td>
<td>5</td>
<td>4*</td>
<td>5</td>
</tr>
</tbody>
</table>

(*) Statistically different from State (p ≤ .05)
Age-adjusted to the 2000 US standard population.
Source: MDPH, Bureau of Health Information, Statistics, Research, & Evaluation, Division of Research & Epidemiology
Hospital Discharge Rates for Motor Vehicle-Related Injuries by Race/Ethnicity, Central Region and Massachusetts: 2003-2005

Discharges per 100,000

Central Region

- White non-Hispanic: 50*
- Black non-Hispanic: 114*
- Hispanic: 90*
- Asian non-Hispanic: 33*

Massachusetts

- White non-Hispanic: 80
- Black non-Hispanic: 72*
- Hispanic: 91*
- Asian non-Hispanic: 81

State Overall: 77

(*) Statistically different from State (p ≤ 0.05)
Age-adjusted to the 2000 US standard population.
Source: Division of Health Care Finance and Policy. Calendar Year 2003-2005. Hospital Discharges

Motor Vehicle-Related Death Rates by Race/Ethnicity Central Region and Massachusetts: 2003-2005

Deaths per 100,000

Central Region

- White non-Hispanic: 10*
- Black non-Hispanic: NA
- Hispanic: 7
- Asian non-Hispanic: 5*

Massachusetts

- White non-Hispanic: 8
- Black non-Hispanic: 7
- Hispanic: 7
- Asian non-Hispanic: NA

State Overall: 8

(*) Statistically different from State (p ≤ 0.05)
Age-adjusted to the 2000 US standard population.
Source: MDPH, Bureau of Health Information, Statistics, Research, & Evaluation, Division of Research & Epidemiology
Emergency Department Visit Rates for Firearm Injuries by Race/Ethnicity Central Region and Massachusetts: 2003-2005

- White non-Hispanic
- Black non-Hispanic
- Hispanic
- Asian non-Hispanic

Visits per 100,000

Central Region
- White non-Hispanic: 3*
- Black non-Hispanic: 22*
- Hispanic: NA
- Asian non-Hispanic: 3*

Massachusetts
- White non-Hispanic: 2*
- Black non-Hispanic: 38*
- Hispanic: 19*
- Asian non-Hispanic: 3*

State Overall: 7

(*) Statistically different from State (p ≤ .05)
Age-adjusted to the 2000 US standard population.

Firearm Death Rates by Race/Ethnicity Central Region and Massachusetts: 2003-2005

- White non-Hispanic
- Black non-Hispanic
- Hispanic
- Asian non-Hispanic

Deaths per 100,000

Central Region
- White non-Hispanic: 2
- Black non-Hispanic: 12
- Hispanic: NA
- Asian non-Hispanic: 4

Massachusetts
- White non-Hispanic: 4
- Black non-Hispanic: 13*
- Hispanic: 2*
- Asian non-Hispanic: 1*

State Overall: 3

(*) Statistically different from State (p ≤ .05)
Age-adjusted to the 2000 US standard population.
Source: MDPH, Bureau of Health Information, Statistics, Research, & Evaluation, Division of Research & Epidemiology
Hospital Discharge Rates for Fall-Related Injuries by Race/Ethnicity, Central Region and Massachusetts: 2003-2005

- White non-Hispanic
- Black non-Hispanic
- Hispanic
- Asian non-Hispanic

Central Region
- Overall: 374
- White: 359*
- Black: 234*
- Hispanic: 221*
- Asian: 141*

Massachusetts
- Overall: 375
- White: 234*
- Black: 216*
- Hispanic: 144*

(*) Statistically different from State (p ≤ 0.05)
Age-adjusted to the 2000 US standard population.
Source: Division of Health Care Finance and Policy. Calendar Year 2003-2005. Hospital Discharges

Emergency Department Visit Rates for Fall-Related Injuries by Race/Ethnicity, Central Region and Massachusetts: 2003-2005

- White non-Hispanic
- Black non-Hispanic
- Hispanic
- Asian non-Hispanic

Central Region
- Overall: 2,750
- White: 2,910*
- Black: 2,447*
- Hispanic: 887*
- Asian: 784*

Massachusetts
- Overall: 2,783*
- White: 2,856*
- Black: 2,504* 2,502*
- Hispanic: 887*
- Asian: 784*

(*) Statistically different from State (p ≤ 0.05)
Age-adjusted to the 2000 US standard population.
Fall-Related Injury Death Rates by Race/Ethnicity Central Region and Massachusetts: 2003-2005

Deaths per 100,000

Central Region

- White non-Hispanic: 3
- Black non-Hispanic: NA
- Hispanic: NA
- Asian non-Hispanic: NA

Massachusetts

- White non-Hispanic: 4
- Black non-Hispanic: 2
- Hispanic: 3
- Asian non-Hispanic: 3

State Overall: 4

(*) Statistically different from State (p ≤ .05)
Age-adjusted to the 2000 US standard population.
Source: MDPH, Bureau of Health Information, Statistics, Research, & Evaluation, Division of Research & Epidemiology.
HIV/AIDS
HIV/AIDS Death Rate by Race/Ethnicity
Worcester & Central Region
Massachusetts: 2003-2005

Deaths per 100,000

White non-Hispanic  Black non-Hispanic  Hispanic  Asian non-Hispanic

State Overall: 3

(*) Statistically different from State (p ≤ 0.05)
Age-adjusted to the 2000 US standard population.
Source: MDPH, Bureau of Health Information, Statistics, Research, & Evaluation, Division of Research & Epidemiology
ASTHMA
Emergency Department Visit Rates for Asthma by Race/Ethnicity Central Region and Massachusetts: 2005

(*) Statistically different from State (p ≤ .05)
Age-adjusted to the 2000 US standard population.
Source: Division of Health Care Finance and Policy. Calendar Year 2005. Emergency Visits

Asthma Emergency Department Visit Rates by Race/Ethnicity, Children Ages 0-14 Central Region and Massachusetts: 2005

(*) Statistically different from State (p ≤ .05)
Source: Division of Health Care Finance and Policy. Calendar Year 2005. Emergency Visits
PREMATURE MORTALITY
Premature Mortality Rate (PMR)

- **Definition**
  - deaths before age 75

- **Rationale**
  - two-thirds of deaths to persons ages 75+
  - vast majority of deaths to persons age 75+ are due to chronic conditions associated with aging
  - focusing on deaths to persons less than 75 years may be more preventable

- **Summary health statistic**
  - excellent measure to reflect the health status of a population
  - used as a health status indicator that can be used to focus prevention initiatives and target programs

1 Rates are per 100,000 population. Age-adjusted to the 2000 US standard population under 75 years of age.

Source: MDPH, Bureau of Health Information, Statistics, Research, & Evaluation, Division of Research & Epidemiology

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Premature Mortality Rate by Race/Ethnicity
Central Region and Massachusetts: 2003-2005

<table>
<thead>
<tr>
<th>Race/Ethnicity</th>
<th>Central Region</th>
<th>Massachusetts</th>
</tr>
</thead>
<tbody>
<tr>
<td>White non-Hispanic</td>
<td>347*</td>
<td>321</td>
</tr>
<tr>
<td>Black non-Hispanic</td>
<td>420*</td>
<td>298*</td>
</tr>
<tr>
<td>Hispanic</td>
<td>134*</td>
<td>154*</td>
</tr>
<tr>
<td>Asian non-Hispanic</td>
<td>NA</td>
<td>298</td>
</tr>
<tr>
<td>American Indian, Non-Hispanic</td>
<td>NA</td>
<td>288</td>
</tr>
<tr>
<td>State Overall:</td>
<td>325</td>
<td>325</td>
</tr>
</tbody>
</table>

(*) Statistically different from State (p ≤ 0.05)
Age-adjusted to the 2000 US standard population under 75 years of age.
Source: MDPH, Bureau of Health Information, Statistics, Research, & Evaluation, Division of Research & Epidemiology
III. NORTHEAST REGION
SOCIODEMOGRAPHIC INDICATORS AND HEALTH CARE ACCESS AND STATUS
Population in Communities-Northeast Region: 2005

Race and Ethnic Breakdown of Population
Northeast Region and Massachusetts: 2005

Source: MDPH, Bureau of Health Information, Statistics, Research, & Evaluation, Division of Research & Epidemiology
Race and Ethnic Breakdown of Population
Lowell, Lawrence, and Lynn: 2005

**Lowell**
- **Asian***, 22.0%
- **Hispanic**, 15.5%
- **Black***, 4.4%
- **White***, 57.9%

Total Population: 105,167

**Lawrence**
- **Asian***, 3.1%
- **Hispanic**, 69.0%
- **Black***, 2.4%
- **White***, 25.2%

Total Population: 81,591

**Lynn**
- **Asian***, 8.4%
- **Hispanic**, 23.3%
- **Black***, 12.2%
- **White***, 55.8%

Total Population: 92,186

* Non-Hispanics

Source: MDPH, Bureau of Health Information, Statistics, Research, & Evaluation, Division of Research & Epidemiology

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Population by Age Group
Northeast Region and Massachusetts: 2005

**Northeast**
- 65+ years: 13.1%
- 45-64 years: 25.7%
- 20-24 years: 5.7%
- 25-44 years: 28.9%
- 0-19 years: 26.7%

**Massachusetts**
- 65+ years: 13.3%
- 45-64 years: 25.5%
- 20-24 years: 6.7%
- 25-44 years: 29.4%
- 0-19 years: 25.5%

Source: MDPH, Health Information, Statistics, Research and Evaluation Bureau, Research & Epidemiology Program

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### Language Spoken at Home
Northeast Region and Massachusetts: 2000

<table>
<thead>
<tr>
<th>Language</th>
<th>Lawrence</th>
<th>Lowell</th>
<th>Northeast Region</th>
<th>Massachusetts</th>
</tr>
</thead>
<tbody>
<tr>
<td>Only English</td>
<td>35.6%</td>
<td>59.3%</td>
<td>80.1%</td>
<td>81.3%</td>
</tr>
<tr>
<td>Spanish or Spanish Creole</td>
<td>55.3%</td>
<td>12.4%</td>
<td>7.9%</td>
<td>6.2%</td>
</tr>
<tr>
<td>Portuguese or Portuguese Creole</td>
<td>1.0%</td>
<td>5.4%</td>
<td>1.6%</td>
<td>2.7%</td>
</tr>
<tr>
<td>Italian</td>
<td>1.0%</td>
<td>0.2%</td>
<td>1.5%</td>
<td>1.0%</td>
</tr>
<tr>
<td>French (Incl. Patois, Cajun)</td>
<td>2.3%</td>
<td>3.2%</td>
<td>1.5%</td>
<td>1.4%</td>
</tr>
<tr>
<td>Mon Khmer, Cambodian</td>
<td>0.8%</td>
<td>9.6%</td>
<td>1.3%</td>
<td>0.4%</td>
</tr>
<tr>
<td>Chinese</td>
<td>0.7%</td>
<td>0.7%</td>
<td>0.9%</td>
<td>1.2%</td>
</tr>
<tr>
<td>Greek</td>
<td>0.0%</td>
<td>1.4%</td>
<td>0.8%</td>
<td>0.5%</td>
</tr>
<tr>
<td>Vietnamese</td>
<td>1.0%</td>
<td>1.3%</td>
<td>0.6%</td>
<td>0.5%</td>
</tr>
<tr>
<td>Russian</td>
<td>0.0%</td>
<td>0.1%</td>
<td>0.5%</td>
<td>0.5%</td>
</tr>
</tbody>
</table>

Source: MDPH, Bureau of Health Information, Statistics, Research, & Evaluation, Division of Research & Epidemiology

### Socio-Demographic Indicators
Northeast Region and Massachusetts: 2000

<table>
<thead>
<tr>
<th>Category</th>
<th>Lawrence</th>
<th>Lowell</th>
<th>Lynn</th>
<th>Northeast Region</th>
<th>MA Overall</th>
<th>US Overall</th>
</tr>
</thead>
<tbody>
<tr>
<td>Per Capita Income</td>
<td>$13,360</td>
<td>$17,567</td>
<td>$17,492</td>
<td>$29,748</td>
<td>$25,952</td>
<td>$21,587</td>
</tr>
<tr>
<td>Those living below 100% poverty</td>
<td>24.3%</td>
<td>16.8%</td>
<td>16.5%</td>
<td>8.3%</td>
<td>9.3%</td>
<td>12.4%</td>
</tr>
<tr>
<td>Children &lt; 18 living below 100% poverty</td>
<td>31.7%</td>
<td>23.2%</td>
<td>22.9%</td>
<td>11.2%</td>
<td>12.0%</td>
<td>16.1%</td>
</tr>
<tr>
<td>Less than a High School Education</td>
<td>19.8%</td>
<td>12.9%</td>
<td>10.1%</td>
<td>15.7%</td>
<td>15.2%</td>
<td>19.6%</td>
</tr>
<tr>
<td>Speak language other than English at home</td>
<td>64.4%</td>
<td>40.7%</td>
<td>34.2%</td>
<td>19.9%</td>
<td>18.7%</td>
<td>17.9%</td>
</tr>
<tr>
<td>Foreign born</td>
<td>30.6%</td>
<td>22.1%</td>
<td>22.8%</td>
<td>12.6%</td>
<td>12.2%</td>
<td>11.1%</td>
</tr>
<tr>
<td>Unemployed</td>
<td>11.3%</td>
<td>6.9%</td>
<td>6.5%</td>
<td>6.6%</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Source: MDPH, Bureau of Health Information, Statistics, Research, & Evaluation, Division of Research & Epidemiology
Adults who Have No Health Insurance by Race and Ethnicity Northeast Region and Massachusetts: 2005

Northeast Region Massachusetts

<table>
<thead>
<tr>
<th>Race and Ethnicity</th>
<th>Northeast Region</th>
<th>Massachusetts</th>
</tr>
</thead>
<tbody>
<tr>
<td>White non-Hispanic</td>
<td>6*</td>
<td>7</td>
</tr>
<tr>
<td>Black non-Hispanic</td>
<td>31*</td>
<td>11</td>
</tr>
<tr>
<td>Hispanic</td>
<td>31*</td>
<td>24*</td>
</tr>
</tbody>
</table>

(*) Statistically different from State (p ≤ .05)

Source: MDPH, Bureau of Health Information, Statistics, Research, and Evaluation, Health Survey Program

---

Adults who Reported Fair or Poor Health by Race and Ethnicity Northeast Region and Massachusetts: 2005

Northeast Region Massachusetts

<table>
<thead>
<tr>
<th>Race and Ethnicity</th>
<th>Northeast Region</th>
<th>Massachusetts</th>
</tr>
</thead>
<tbody>
<tr>
<td>White non-Hispanic</td>
<td>12</td>
<td>12</td>
</tr>
<tr>
<td>Black non-Hispanic</td>
<td>24*</td>
<td>16</td>
</tr>
<tr>
<td>Hispanic</td>
<td>23*</td>
<td>23*</td>
</tr>
</tbody>
</table>

(*) Statistically different from State (p ≤ .05)

Source: MDPH, Bureau of Health Information, Statistics, Research, and Evaluation, Health Survey Program
BIRTH OUTCOMES
Infant Mortality Rates by Race/Ethnicity
Northeast Region and Massachusetts: 2003-2005

Deaths per 1000 live births

- White non-Hispanic
- Black non-Hispanic
- Hispanic
- Asian non-Hispanic

Northeast Region
- 3.6*
- 8.4
- 7.3*
- 6.7

Massachusetts
- 11.3*
- 7.0*
- 4.1*
- 3.0*

State Overall:
- 4.9

NA: Calculations based on less than 5 events are excluded
(*) Statistically different from State (p ≤ 0.05)
Source: MDPH, Bureau of Health Information, Statistics, Research, & Evaluation Bureau, Division of Research & Epidemiology

Low Birthweight by Race and Ethnicity
Northeast Region and Massachusetts: 2005

Percent

- White non-Hispanic
- Black non-Hispanic
- Hispanic
- Asian non-Hispanic

Northeast Region
- 7.0*
- 11.0*
- 10.3*
- 7.7

Massachusetts
- 12.0*
- 8.2
- 7.3*
- 7.8

State Overall:
- 7.9

(*) Statistically different from State (p ≤ 0.05)
Source: MDPH, Bureau of Health Information, Statistics, Research, & Evaluation Bureau, Division of Research & Epidemiology

Low birthweight: less than 2,500 grams or 5.5 pounds
Breastfeeding by Race/Ethnicity
Northeast Region and Massachusetts: 2005

Northeast Region
White non-Hispanic: 76*
Black non-Hispanic: 84*
Hispanic: 75*
Asian non-Hispanic: 83*

Massachusetts
White non-Hispanic: 83*
Black non-Hispanic: 80
Hispanic: 78*
Asian non-Hispanic: 85*

State Overall: 79

(*) Statistically different from State (p ≤ 0.05)
Low birthweight: less than 2,500 grams or 5.5 pounds

Source: MDPH, Bureau of Health Information, Statistics, Research, & Evaluation Bureau, Division of Research & Epidemiology

Teen Birth Rates by Race and Ethnicity
Northeast Region and Massachusetts: 2005

Northeast Region
White non-Hispanic: 11*
Black non-Hispanic: 35*
Hispanic: 38*
Asian non-Hispanic: 36*

Massachusetts
White non-Hispanic: 13*
Black non-Hispanic: 36*
Hispanic: 73*
Asian non-Hispanic: 15*

State Overall: 22

(*) Statistically different from State (p ≤ 0.05)
Teen Birth Rate: the number of births to women ages 15-19 per 1,000 women ages 15-19.

Source: MDPH, Bureau of Health Information, Statistics, Research, & Evaluation, Division of Research & Epidemiology
CHRONIC DISEASE OUTCOMES
AND OVERWEIGHT/OBESITY
**Overweight\(^1\) by Race and Ethnicity**
**Northeast Region and Massachusetts: 2005**

<table>
<thead>
<tr>
<th>Race/Ethnicity</th>
<th>Northeast Region</th>
<th>Massachusetts</th>
</tr>
</thead>
<tbody>
<tr>
<td>White non-Hispanic</td>
<td>60</td>
<td>66</td>
</tr>
<tr>
<td>Black non-Hispanic</td>
<td>64</td>
<td>64</td>
</tr>
<tr>
<td>Hispanic</td>
<td>56</td>
<td>63</td>
</tr>
</tbody>
</table>

\(^*\) Statistically different from State (p ≤ 0.05)

**Source:** MDPH, Bureau of Health Information, Statistics, Research, and Evaluation, Massachusetts Behavioral Risk Factor Surveillance System (BRFSS), Health Survey Program

---

**Obesity\(^1\) by Race and Ethnicity**
**Northeast Region and Massachusetts: 2005**

<table>
<thead>
<tr>
<th>Race/Ethnicity</th>
<th>Northeast Region</th>
<th>Massachusetts</th>
</tr>
</thead>
<tbody>
<tr>
<td>White non-Hispanic</td>
<td>18</td>
<td>NA</td>
</tr>
<tr>
<td>Black non-Hispanic</td>
<td>24</td>
<td>27</td>
</tr>
<tr>
<td>Hispanic</td>
<td>20</td>
<td>33</td>
</tr>
</tbody>
</table>

\(^*\) Statistically different from State (p ≤ 0.05)

**State Overall:**
- Overweight: BMI greater than or equal to 25
- Obesity: BMI greater than or equal to 30

**Source:** MDPH, Bureau of Health Information, Statistics, Research, and Evaluation, Health Survey Program
Hypertension Hospital Discharge Rate by Race/Ethnicity
Northeast Region Massachusetts: 2003-2005

- **White non-Hispanic**
- **Black non-Hispanic**
- **Hispanic**
- **Asian non-Hispanic**

<table>
<thead>
<tr>
<th>Race/Ethnicity</th>
<th>Northeast Region</th>
<th>Massachusetts</th>
</tr>
</thead>
<tbody>
<tr>
<td>White</td>
<td>146*</td>
<td>27*</td>
</tr>
<tr>
<td>Black</td>
<td>71*</td>
<td>40*</td>
</tr>
<tr>
<td>Hispanic</td>
<td>176*</td>
<td>28*</td>
</tr>
<tr>
<td>Asian</td>
<td>89*</td>
<td>33*</td>
</tr>
</tbody>
</table>

State Overall: 39

(*) Statistically different from State (p ≤ .05)
Age-adjusted to the 2000 US standard population.
Source: Division of Health Care Finance and Policy. Calendar Year 2003-2005. Inpatient Hospital Discharge Database

Heart Disease Death Rate by Race/Ethnicity
Northeast Region and Massachusetts: 2003-2005

- **White non-Hispanic**
- **Black non-Hispanic**
- **Hispanic**
- **Asian non-Hispanic**

<table>
<thead>
<tr>
<th>Race/Ethnicity</th>
<th>Northeast Region</th>
<th>Massachusetts</th>
</tr>
</thead>
<tbody>
<tr>
<td>White</td>
<td>190*</td>
<td>191</td>
</tr>
<tr>
<td>Black</td>
<td>87*</td>
<td>70*</td>
</tr>
<tr>
<td>Hispanic</td>
<td>185</td>
<td>104*</td>
</tr>
<tr>
<td>Asian</td>
<td>209*</td>
<td>68*</td>
</tr>
</tbody>
</table>

State Overall: 183

(*) Statistically different from State (p ≤ .05)
Age-adjusted to the 2000 US standard population.
Source: MDPH, Bureau of Health Information, Statistics, Research, and Evaluation, Division of Research & Epidemiology
**Diabetes Hospital Discharge Rate by Race/Ethnicity**
Northeast Region Massachusetts: 2003-2005

- **White non-Hispanic**: 116*
- **Black non-Hispanic**: 297*
- **Hispanic**: 114*
- **Asian non-Hispanic**: 45*

Northeast Region Massachusetts Discharges per 100,000

- **White non-Hispanic**: 209*
- **Black non-Hispanic**: 368*
- **Hispanic**: 70*
- **Asian non-Hispanic**: 45*

*State Overall: 133*

(*) Statistically different from State (p ≤ 0.05)
Age-adjusted to the 2000 US standard population.
Source: Division of Health Care Finance and Policy. Calendar Year 2003-2005. Inpatient Hospital Discharge Database

---

**Diabetes Mortality Rate by Race/Ethnicity**
Northeast Region and Massachusetts: 2003-2005

- **White non-Hispanic**: 16*
- **Black non-Hispanic**: 34
- **Hispanic**: 16
- **Asian non-Hispanic**: 17

Northeast Region Massachusetts Deaths per 100,000

- **White non-Hispanic**: 37*
- **Black non-Hispanic**: 38*
- **Hispanic**: 29*
- **Asian non-Hispanic**: 14

*State Overall: 18*

(*) Statistically different from State (p ≤ 0.05)
Age-adjusted to the 2000 US standard population.
Source: MDPH, Bureau of Health Information, Statistics, Research, and Evaluation, Division of Research & Epidemiology
CANCER
Women who had a Clinical Breast Exam in the Past Two Years by Race and Ethnicity Northeast Region and Massachusetts: 2004

<table>
<thead>
<tr>
<th></th>
<th>White non-Hispanic</th>
<th>Black non-Hispanic</th>
<th>Hispanic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Northeast Region</td>
<td>91</td>
<td>82</td>
<td>NA</td>
</tr>
<tr>
<td>Massachusetts</td>
<td>88</td>
<td>81</td>
<td>78</td>
</tr>
</tbody>
</table>

State Overall: 87

(*) Statistically different from State (p ≤ .05)

Source: MDPH, Bureau of Health Information, Statistics, Research, and Evaluation, Health Survey Program

Current Smoker by Race and Ethnicity Northeast Region and Massachusetts: 2005

<table>
<thead>
<tr>
<th></th>
<th>White non-Hispanic</th>
<th>Black non-Hispanic</th>
<th>Hispanic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Northeast Region</td>
<td>19</td>
<td>19</td>
<td>NA</td>
</tr>
<tr>
<td>Massachusetts</td>
<td>18</td>
<td>16</td>
<td>18</td>
</tr>
</tbody>
</table>

State Overall: 18

(*) Statistically different from State (p ≤ .05)

Source: MDPH, Bureau of Health Information, Statistics, Research, and Evaluation, Health Survey Program
Smoking During Pregnancy by Race and Ethnicity
Northeast Region and Massachusetts: 2005

Northeast Region Massachusetts
Percent

White non-Hispanic Black non-Hispanic Hispanic Asian non-Hispanic

State Overall: 7.2

Northeast Region Massachusetts
Cases per 100,000

White non-Hispanic Black non-Hispanic Hispanic Asian non-Hispanic

Lung Cancer Incidence Rates by Race and Ethnicity
Northeast Region & Massachusetts: 1999-2003

State Overall: 72

(*) Statistically different from State (p ≤ 0.05)
Source: MDPH, Bureau of Health Information, Statistics, Research, and Evaluation, Division of Research & Epidemiology

(*) Statistically different from State (p ≤ 0.05)
Age-adjusted to the 2000 US standard population.
Source: MDPH, Bureau of Health Information, Statistics, Research, and Evaluation, Cancer Registry
Lung Cancer Mortality Rates by Race and Ethnicity
Northeast Region & Massachusetts: 2001-2005

Northeast Region

- White non-Hispanic: 59*
- Black non-Hispanic: 52
- Hispanic: 19*
- Asian non-Hispanic: 36*

Massachusetts

- White non-Hispanic: 55*
- Black non-Hispanic: 54
- Hispanic: 20*
- Asian non-Hispanic: 29*

(*) Statistically different from State (p ≤ 0.05)
Age-adjusted to the 2000 US standard population.
Source: MDPH, Bureau of Health Information, Statistics, Research, and Evaluation, Division of Research & Epidemiology
SUBSTANCE ABUSE
Opioid-Related Emergency Department Visit Rates by Race/Ethnicity
Northeast Region and Massachusetts: 2003-2005

Northeast Region
Northeast without Lawrence, Lowell or Lynn
Massachusetts

Visits per 100,000

White non-Hispanic  Black non-Hispanic  Hispanic  Asian non-Hispanic

255*  128  167  10*

235*  88*  118*  6*

187*  188  237*  10*

State Overall: 181

(*) Statistically different from State (p ≤ .05)
Age-adjusted to the 2000 US standard population.
Source: Division of Health Care Finance and Policy. Calendar Year 2003-2005. Emergency Department Visits

Opioid-Related Emergency Department Visit Rates by Race/Ethnicity--Lawrence, Lowell, and Lynn Massachusetts: 2003-2005

Lawrence  Lowell  Lynn  Massachusetts

Visits per 100,000

White non-Hispanic  Black non-Hispanic  Hispanic  Asian non-Hispanic

409*  184  182  207*

282*  95*  34*  38*

187*  188  237*  10*

State Overall: 181

(*) Statistically different from State (p ≤ .05)
Age-adjusted to the 2000 US standard population.
Source: Division of Health Care Finance and Policy. Calendar Year 2003-2005. Emergency Department Visits
Opioid-Related Fatal Overdoses by Race/Ethnicity
Northeast Region and Massachusetts: 2003-2005

<table>
<thead>
<tr>
<th></th>
<th>White non-Hispanic</th>
<th>Black non-Hispanic</th>
<th>Hispanic</th>
<th>Asian non-Hispanic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Northeast Region</td>
<td>9</td>
<td>8</td>
<td>NA</td>
<td>11*</td>
</tr>
<tr>
<td>Northeast without Lawrence, Lynn or Lowell</td>
<td>9</td>
<td>6</td>
<td>NA</td>
<td>9</td>
</tr>
<tr>
<td>Massachusetts</td>
<td>9</td>
<td>7</td>
<td>1*</td>
<td>9</td>
</tr>
</tbody>
</table>

(*) Statistically different from State (p ≤ 0.05)
Age-adjusted to the 2000 US standard population.
Source: MDPH, Health Information, Statistics, Research, and Evaluation Bureau, Research & Epidemiology Program
INJURY AND VIOLENCE
Injury-Related Hospital Discharge Rates by Race/Ethnicity, Northeast Region & Massachusetts: 2003-2005

Northeast Region Massachusetts

Discharges per 100,000

White non-Hispanic Black non-Hispanic Hispanic Asian non-Hispanic

State Overall: 836

(*) Statistically different from State (p ≤ 0.05)
Age-adjusted to the 2000 US standard population.
Source: Division of Health Care Finance and Policy. Calendar Year 2003-2005. Hospital Discharges

Emergency Department Visit Rates for Injuries & Poisonings by Race/Ethnicity, Northeast Region and Massachusetts: 2003-2005

Northeast Region Massachusetts

Visits per 100,000

White non-Hispanic Black non-Hispanic Hispanic Asian non-Hispanic

State Overall: 11,298

(*) Statistically different from State (p ≤ 0.05)
Age-adjusted to the 2000 US standard population.
Source: Division of Health Care Finance and Policy. Calendar Year 2003-2005. Emergency Department Visits
**Hospital Discharge Rates for Assaults by Race/Ethnicity**

Northeast Region and Massachusetts: 2003-2005

<table>
<thead>
<tr>
<th>Race/Ethnicity</th>
<th>Northeast Region</th>
<th>Massachusetts</th>
</tr>
</thead>
<tbody>
<tr>
<td>White non-Hispanic</td>
<td>15* 63*</td>
<td>12*</td>
</tr>
<tr>
<td>Black non-Hispanic</td>
<td>63*</td>
<td>69*</td>
</tr>
<tr>
<td>Hispanic</td>
<td>20* 16*</td>
<td>12</td>
</tr>
<tr>
<td>Asian non-Hispanic</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Discharges per 100,000

(*) Statistically different from State (p ≤ 0.05)
Age-adjusted to the 2000 US standard population.
Source: Division of Health Care Finance and Policy. Calendar Year 2003-2005. Hospital Discharges

**Homicide Rates by Race/Ethnicity**

Northeast Region and Massachusetts: 2003-2005

<table>
<thead>
<tr>
<th>Race/Ethnicity</th>
<th>Northeast Region</th>
<th>Massachusetts</th>
</tr>
</thead>
<tbody>
<tr>
<td>White non-Hispanic</td>
<td>1* 6</td>
<td>1</td>
</tr>
<tr>
<td>Black non-Hispanic</td>
<td>6*</td>
<td>6*</td>
</tr>
<tr>
<td>Hispanic</td>
<td>1</td>
<td>1*</td>
</tr>
<tr>
<td>Asian non-Hispanic</td>
<td>2</td>
<td></td>
</tr>
</tbody>
</table>

Deaths per 100,000

(*) Statistically different from State (p ≤ 0.05)
Age-adjusted to the 2000 US standard population.
Source: MDPH, Bureau of Health Information, Statistics, Research, and Evaluation, Division of Research & Epidemiology
Hospital Discharge Rates for Self-Inflicted Injuries by Race/Ethnicity Northeast Region and Massachusetts: 2003-2005

Northeast Region
- White non-Hispanic: 70*
- Black non-Hispanic: 59
- Hispanic: 18*
- Asian non-Hispanic: 17*

Massachusetts
- White non-Hispanic: 65
- Black non-Hispanic: 64
- Hispanic: 62
- Asian non-Hispanic: 17*

(*): Statistically different from State (p ≤ 0.05)
Age-adjusted to the 2000 US standard population.
Source: Division of Health Care Finance and Policy. Calendar Year 2003-2005. Hospital Discharges

Suicide Rates by Race/Ethnicity Northeast Region and Massachusetts: 2003-2005

Northeast Region
- White non-Hispanic: 8*
- Black non-Hispanic: 4
- Hispanic: 3*
- Asian non-Hispanic: 5

Massachusetts
- White non-Hispanic: 7
- Black non-Hispanic: 4*
- Hispanic: 4*
- Asian non-Hispanic: 5

(*): Statistically different from State (p ≤ 0.05)
Age-adjusted to the 2000 US standard population.
Source: MDPH, Bureau of Health Information, Statistics, Research, and Evaluation, Division of Research & Epidemiology
Hospital Discharge Rates for Motor Vehicle-Related Injuries by Race/Ethnicity
Northeast Region and Massachusetts: 2003-2005

Discharges per 100,000

Northeast Region

- White non-Hispanic: 69*
- Black non-Hispanic: 67
- Hispanic: 72
- Asian non-Hispanic: 42*

Massachusetts

- White non-Hispanic: 90*
- Black non-Hispanic: 81
- Hispanic: 72*
- Asian non-Hispanic: 33*

State Overall: 77

(*) Statistically different from State (p ≤ 0.05)
Age-adjusted to the 2000 US standard population.
Source: Division of Health Care Finance and Policy. Calendar Year 2003-2005. Hospital Discharges

Motor Vehicle-Related Death Rates by Race/Ethnicity
Northeast Region and Massachusetts: 2003-2005

Deaths per 100,000

Northeast Region

- White non-Hispanic: 7
- Black non-Hispanic: 6
- Hispanic: 6
- Asian non-Hispanic: 3*

Massachusetts

- White non-Hispanic: 8
- Black non-Hispanic: 7
- Hispanic: 7
- Asian non-Hispanic: 5*

State Overall: 8

(*) Statistically different from State (p ≤ 0.05)
Age-adjusted to the 2000 US standard population.
Source: MDPH, Bureau of Health Information, Statistics, Research, and Evaluation, Division of Research & Epidemiology
Hospital Discharge Rates for Traumatic Brain Injury by Race/Ethnicity, Northeast Region and Massachusetts: 2003-2005

Northeast Region Massachusetts

<table>
<thead>
<tr>
<th>Race/Ethnicity</th>
<th>Overall: 80</th>
</tr>
</thead>
<tbody>
<tr>
<td>White non-Hispanic</td>
<td>78</td>
</tr>
<tr>
<td>Black non-Hispanic</td>
<td>49*</td>
</tr>
<tr>
<td>Hispanic</td>
<td>74</td>
</tr>
<tr>
<td>Asian non-Hispanic</td>
<td>44*</td>
</tr>
</tbody>
</table>

(*) Statistically different from State (p ≤ .05)
Age-adjusted to the 2000 US standard population.
Source: Division of Health Care Finance and Policy. Calendar Year 2003-2005. Hospital Discharges

Emergency Department Visit Rates for Traumatic Brain Injury by Race/Ethnicity Northeast Region and Massachusetts: 2003-2005

Northeast Region Massachusetts

<table>
<thead>
<tr>
<th>Race/Ethnicity</th>
<th>Overall: 604</th>
</tr>
</thead>
<tbody>
<tr>
<td>White non-Hispanic</td>
<td>670*</td>
</tr>
<tr>
<td>Black non-Hispanic</td>
<td>601</td>
</tr>
<tr>
<td>Hispanic</td>
<td>206*</td>
</tr>
<tr>
<td>Asian non-Hispanic</td>
<td>588</td>
</tr>
</tbody>
</table>

(*) Statistically different from State (p ≤ .05)
Age-adjusted to the 2000 US standard population.
Source: Division of Health Care Finance and Policy. Calendar Year 2005. Emergency Visits
Emergency Department Visit Rates for Firearm Injuries by Race/Ethnicity
Northeast Region and Massachusetts: 2003-2005

<table>
<thead>
<tr>
<th></th>
<th>White non-Hispanic</th>
<th>Black non-Hispanic</th>
<th>Hispanic</th>
<th>Asian non-Hispanic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Northeast Region</td>
<td>2*</td>
<td>12</td>
<td>20*</td>
<td>10</td>
</tr>
<tr>
<td>Massachusetts</td>
<td>38*</td>
<td>19*</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Visits per 100,000

Northeast Region: 7

Massachusetts: 3

(*) Statistically different from State (p ≤ 0.05)
Age-adjusted to the 2000 US standard population.

Firearm Death Rates by Race/Ethnicity
Northeast Region and Massachusetts: 2003-2005

<table>
<thead>
<tr>
<th></th>
<th>White non-Hispanic</th>
<th>Black non-Hispanic</th>
<th>Hispanic</th>
<th>Asian non-Hispanic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Northeast Region</td>
<td>3</td>
<td>4</td>
<td>3</td>
<td>NA</td>
</tr>
<tr>
<td>Massachusetts</td>
<td>13*</td>
<td>4</td>
<td></td>
<td>1*</td>
</tr>
</tbody>
</table>

Deaths per 100,000

Northeast Region: 3

Massachusetts: 3

(*) Statistically different from State (p ≤ 0.05)
Age-adjusted to the 2000 US standard population.
Source: MDPH, Bureau of Health Information, Statistics, Research, and Evaluation, Division of Research & Epidemiology
Hospital Discharge Rates for Fall-Related Injuries by Race/Ethnicity
Northeast Region and Massachusetts: 2003-2005

Northeast Region Massachusetts
White non-Hispanic Black non-Hispanic Hispanic Asian non-Hispanic
Discharges per 100,000

(*) Statistically different from State (p ≤ 0.05)
Age-adjusted to the 2000 US standard population.
Source: Division of Health Care Finance and Policy. Calendar Year 2003-2005. Hospital Discharges

Emergency Department Visit Rates for Fall-Related Injuries by Race/Ethnicity
Northeast Region and Massachusetts: 2003-2005

Northeast Region Massachusetts
White non-Hispanic Black non-Hispanic Hispanic Asian non-Hispanic
Visits per 100,000

(*) Statistically different from State (p ≤ 0.05)
Age-adjusted to the 2000 US standard population.
Source: Division of Health Care Finance and Policy. Calendar Year 2005. Emergency Visits
Fall-Related Injury Mortality Rates by Race/Ethnicity
Northeast Region and Massachusetts: 2003-2005

[Chart showing fall-related injury mortality rates by race/ethnicity in the Northeast Region and Massachusetts.]

- Deaths per 100,000: 4
- Age-adjusted to the 2000 US standard population.
- Source: MDPH, Bureau of Health Information, Statistics, Research, and Evaluation, Division of Research & Epidemiology

(*) Statistically different from State (p ≤ .05)
HIV/AIDS
HIV/AIDS Death Rate by Race/Ethnicity
Northeast Region and Massachusetts: 2003-2005

Northeast Region

Deaths per 100,000

State Overall: 3

Massachusetts

(*) Statistically different from State (p ≤ 0.05)
Age-adjusted to the 2000 US standard population.
Source: MDPH, Bureau of Health Information, Statistics, Research, and Evaluation, Division of Research & Epidemiology
ASTHMA
Emergency Department Visit Rates for Asthma by Race/Ethnicity
Northeast Region and Massachusetts: 2005

<table>
<thead>
<tr>
<th>Race/Ethnicity</th>
<th>Northeast Region</th>
<th>Massachusetts</th>
</tr>
</thead>
<tbody>
<tr>
<td>White non-Hispanic</td>
<td>1,039*</td>
<td>1,251*</td>
</tr>
<tr>
<td>Black non-Hispanic</td>
<td>400*</td>
<td>141*</td>
</tr>
<tr>
<td>Hispanic</td>
<td>1,039*</td>
<td>1,039*</td>
</tr>
<tr>
<td>Asian non-Hispanic</td>
<td>434*</td>
<td>168*</td>
</tr>
</tbody>
</table>

Visits per 100,000

(*) Statistically different from State (p ≤ 0.05)
Age-adjusted to the 2000 US standard population.
Source: Division of Health Care Finance and Policy. Calendar Year 2005. Emergency Visits

Asthma Emergency Department Visit Rates
Children Ages 0-14
Northeast Region and Massachusetts: 2005

<table>
<thead>
<tr>
<th>Race/Ethnicity</th>
<th>Northeast Region</th>
<th>Massachusetts</th>
</tr>
</thead>
<tbody>
<tr>
<td>White non-Hispanic</td>
<td>1,485*</td>
<td>2,096*</td>
</tr>
<tr>
<td>Black non-Hispanic</td>
<td>415*</td>
<td>516*</td>
</tr>
<tr>
<td>Hispanic</td>
<td>1,066*</td>
<td>356*</td>
</tr>
<tr>
<td>Asian non-Hispanic</td>
<td>516*</td>
<td>356*</td>
</tr>
</tbody>
</table>

Visits per 100,000

(*) Statistically different from State (p ≤ 0.05)
Source: Division of Health Care Finance and Policy. Calendar Year 2005. Emergency Visits
PREMATURE MORTALITY
Premature Mortality Rate (PMR)\(^1\)

- **Definition**
  - deaths before age 75

- **Rationale**
  - two-thirds of deaths to persons ages 75+
  - vast majority of deaths to persons age 75+ are due to chronic conditions associated with aging
  - focusing on deaths to persons less than 75 years may be more preventable

- **Summary health statistic**
  - excellent measure to reflect the health status of a population
  - used as a health status indicator that can be used to focus prevention initiatives and target programs

\(^1\) Rates are per 100,000 population. Age-adjusted to the 2000 US standard population under 75 years of age.

Source: MDPH, Bureau of Health Information, Statistics, Research, & Evaluation, Division of Research & Epidemiology

---

Premature Mortality Rate by Race/Ethnicity
Northeast Region and Massachusetts: 2003-2005

<table>
<thead>
<tr>
<th>Race/Ethnicity</th>
<th>Northeast Region</th>
<th>Massachusetts</th>
</tr>
</thead>
<tbody>
<tr>
<td>White non-Hispanic</td>
<td>324(^*)</td>
<td>321</td>
</tr>
<tr>
<td>Black non-Hispanic</td>
<td>243(^*)</td>
<td>298(^*)</td>
</tr>
<tr>
<td>Hispanic</td>
<td>164(^*)</td>
<td>154(^*)</td>
</tr>
<tr>
<td>Asian non-Hispanic</td>
<td></td>
<td>298</td>
</tr>
<tr>
<td>American Indian, Non-Hispanic</td>
<td></td>
<td>298</td>
</tr>
</tbody>
</table>

(*) Statistically different from State (p ≤ 0.05)

Age-adjusted to the 2000 US standard population under 75 years of age.

Source: MDPH, Bureau of Health Information, Statistics, Research, & Evaluation, Division of Research & Epidemiology
IV. METROWEST REGION
SOCIODEMOGRAPHIC INDICATORS AND HEALTH CARE ACCESS AND STATUS
Population in Communities- Metrowest Region: 2005

Largest: Cambridge 101,529
Smallest: Sherborn 4,220

Source: MDPH, Bureau of Health Information, Statistics, Research, and Evaluation, Division of Research & Epidemiology

Race and Ethnic Breakdown of Population Metrowest Region and Massachusetts: 2005

Metrowest

- White*: 83.8%
- Hispanic: 3.9%
- Black*: 4.3%
- Asian*: 7.8%
- Amer. Indian*: 0.2%

Massachusetts

- White*: 81.0%
- Hispanic: 7.9%
- Black*: 6.0%
- Asian*: 4.9%
- Amer. Indian*: 0.2%

* Non-Hispanics

Total Population: 1,488,582
Total Population: 6,349,097

Source: MDPH, Bureau of Health Information, Statistics, Research, and Evaluation, Division of Research & Epidemiology
Race and Ethnic Breakdown of Population Cambridge and Quincy: 2005

Cambridge
- White*: 61.3%
- Asian*: 15.3%
- Hispanic: 8.2%
- Black*: 14.9%

Quincy
- White*: 73.2%
- Asian*: 20.8%
- Hispanic: 2.7%
- Black*: 3.2%

Total Population: 101,529
Total Population: 90,458

Source: MDPH, Bureau of Health Information, Statistics, Research, and Evaluation, Division of Research & Epidemiology

Race and Ethnic Breakdown of Population Somerville and Framingham: 2005

Somerville
- White*: 72.4%
- Asian*: 8.9%
- Hispanic: 10.1%
- Black*: 8.4%

Framingham
- White*: 74.2%
- Asian*: 7.4%
- Hispanic: 12.4%
- Black*: 5.8%

Total Population: 75,372
Total Population: 65,652

Source: MDPH, Bureau of Health Information, Statistics, Research, and Evaluation, Division of Research & Epidemiology
### Population by Age Group
**Metrowest Region and Massachusetts: 2005**

<table>
<thead>
<tr>
<th>Ages</th>
<th>Cambridge</th>
<th>Quincy</th>
<th>Somerville</th>
<th>Framingham</th>
<th>Metro west Region</th>
<th>MA Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-19 years</td>
<td>19.1%</td>
<td>19.5%</td>
<td>18.4%</td>
<td>23.5%</td>
<td>24.4%</td>
<td>25.5%</td>
</tr>
<tr>
<td>20-24 years</td>
<td>15.4%</td>
<td>6.5%</td>
<td>12.7%</td>
<td>6.4%</td>
<td>5.9%</td>
<td>6.7%</td>
</tr>
<tr>
<td>25-44 years</td>
<td>36.0%</td>
<td>32.9%</td>
<td>39.3%</td>
<td>32.1%</td>
<td>29.5%</td>
<td>29.4%</td>
</tr>
<tr>
<td>45-64 years</td>
<td>20.2%</td>
<td>25.2%</td>
<td>19.0%</td>
<td>25.1%</td>
<td>26.6%</td>
<td>25.3%</td>
</tr>
<tr>
<td>65+ years</td>
<td>9.3%</td>
<td>15.9%</td>
<td>10.6%</td>
<td>12.9%</td>
<td>13.6%</td>
<td>13.3%</td>
</tr>
</tbody>
</table>

Source: MDPH, Bureau of Health Information, Statistics, Research, and Evaluation, Division of Research & Epidemiology

### Language Spoken at Home
**Metrowest Region and Massachusetts: 2000**

<table>
<thead>
<tr>
<th>Language</th>
<th>Cambridge</th>
<th>Quincy</th>
<th>Metrowest Region</th>
<th>Massachusetts</th>
</tr>
</thead>
<tbody>
<tr>
<td>Only English</td>
<td>68.8</td>
<td>76.2</td>
<td>82.4</td>
<td>81.3</td>
</tr>
<tr>
<td>Spanish or Spanish Creole</td>
<td>6.8</td>
<td>1.9</td>
<td>3.3</td>
<td>6.2</td>
</tr>
<tr>
<td>Chinese</td>
<td>3.7</td>
<td>10.5</td>
<td>2.3</td>
<td>1.2</td>
</tr>
<tr>
<td>Portuguese or Portuguese Creole</td>
<td>3.0</td>
<td>0.7</td>
<td>2.0</td>
<td>2.7</td>
</tr>
<tr>
<td>Italian</td>
<td>1.0</td>
<td>1.2</td>
<td>1.3</td>
<td>1.0</td>
</tr>
<tr>
<td>French (Incl. Patois, Cajun)</td>
<td>2.3</td>
<td>0.7</td>
<td>1.2</td>
<td>1.4</td>
</tr>
<tr>
<td>Russian</td>
<td>0.8</td>
<td>0.3</td>
<td>0.8</td>
<td>0.6</td>
</tr>
<tr>
<td>French Creole</td>
<td>2.9</td>
<td>0.2</td>
<td>0.7</td>
<td>0.7</td>
</tr>
<tr>
<td>Greek</td>
<td>0.5</td>
<td>0.5</td>
<td>0.7</td>
<td>0.5</td>
</tr>
<tr>
<td>German</td>
<td>0.8</td>
<td>0.4</td>
<td>0.5</td>
<td>0.3</td>
</tr>
<tr>
<td>Korean</td>
<td>1.5</td>
<td>0.1</td>
<td>0.4</td>
<td>0.2</td>
</tr>
<tr>
<td>Vietnamese</td>
<td>0.3</td>
<td>1.5</td>
<td>0.3</td>
<td>0.5</td>
</tr>
</tbody>
</table>

Source: MDPH, Bureau of Health Information, Statistics, Research, and Evaluation, Division of Research & Epidemiology
### Socio-Demographic Indicators
**Metrowest Region and Massachusetts: 2000**

<table>
<thead>
<tr>
<th>Cambridge</th>
<th>Quincy</th>
<th>Somerville</th>
<th>Framingham</th>
<th>Metrowest Region</th>
<th>MA</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Per Capita Income</strong></td>
<td>$31,156</td>
<td>$26,001</td>
<td>$23,628</td>
<td>$27,758</td>
<td><strong>$34,341</strong></td>
</tr>
<tr>
<td><strong>Those living below 100% poverty</strong></td>
<td>12.9%</td>
<td>7.3%</td>
<td>12.5%</td>
<td>8.1%</td>
<td><strong>5.3%</strong></td>
</tr>
<tr>
<td><strong>Less than a High School Educ.</strong></td>
<td>10.5%</td>
<td>14.8%</td>
<td>19.4%</td>
<td>12.9%</td>
<td><strong>9.0%</strong></td>
</tr>
<tr>
<td><strong>Speak language other than English at home</strong></td>
<td>31.2%</td>
<td>23.8%</td>
<td>35.6%</td>
<td>29.2%</td>
<td><strong>21.9%</strong></td>
</tr>
<tr>
<td><strong>Foreign born</strong></td>
<td>25.9%</td>
<td>20.0%</td>
<td>29.3%</td>
<td>21.2%</td>
<td><strong>12.1%</strong></td>
</tr>
<tr>
<td><strong>Unemployed</strong></td>
<td>3.6%</td>
<td>5.2%</td>
<td>4.0%</td>
<td>4.1%</td>
<td><strong>4.2%</strong></td>
</tr>
</tbody>
</table>

Source: MDPH, Bureau of Health Information, Statistics, Research, and Evaluation, Division of Research & Epidemiology

### Adults who Have No Health Insurance by Race and Ethnicity
**Metrowest Region and Massachusetts: 2005**

<table>
<thead>
<tr>
<th></th>
<th>White non-Hispanic</th>
<th>Black non-Hispanic</th>
<th>Hispanic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Percent</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Metrowest</td>
<td>18.4</td>
<td>7.0</td>
<td><strong>23.8</strong>*</td>
</tr>
<tr>
<td>Massachusetts</td>
<td>3.4*</td>
<td><strong>8.9</strong></td>
<td>11.5</td>
</tr>
</tbody>
</table>

(*) Statistically different from State (p ≤ 0.05)
Source: MDPH, Bureau of Health Information, Statistics, Research, and Evaluation, Massachusetts Behavioral Risk Factor Surveillance System (BRFSS), Health Survey Program
Adults who Reported Fair or Poor Health by Race and Ethnicity Metrowest Region and Massachusetts: 2005

<table>
<thead>
<tr>
<th></th>
<th>White non-Hispanic</th>
<th>Black non-Hispanic</th>
<th>Hispanic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Metrowest Region</td>
<td>9*</td>
<td>23</td>
<td>NA</td>
</tr>
<tr>
<td>Massachusetts</td>
<td></td>
<td>12</td>
<td>16*</td>
</tr>
</tbody>
</table>

State Overall: 13

NA: Calculations based on less than 5 events are excluded
(*) Statistically different from State (p ≤ .05)

Source: MDPH, Bureau of Health Information, Statistics, Research, and Evaluation, Health Survey Program
BIRTH OUTCOMES
Infant Mortality Rates by Race/Ethnicity
Metrowest Region and Massachusetts: 2003-2005

Deaths per 1000 live births

Metrowest Massachusetts

White non-Hispanic Black non-Hispanic Hispanic Asian non-Hispanic

4.1* 4.2 7.3 11.3 * 3.0*

4.1 7.0 * 0

State Overall: 4.9

(*) Statistically different from State (p ≤ 0.05)
Source: MDPH, Bureau of Health Information, Statistics, Research, & Evaluation Bureau, Division of Research & Epidemiology

Teen Birth Rates by Race and Ethnicity
Metrowest Region and Massachusetts: 2005

Teen Birth Rate: the number of births to women ages 15-19 per 1,000 women ages 15-19.

Metrowest Region Massachusetts

White non-Hispanic Black non-Hispanic Hispanic Asian non-Hispanic

6* 20 38* 2* 15*

36* 73*

State Overall: 22

(*) Statistically different from State (p ≤ 0.05)
Source: MDPH, Bureau of Health Information, Statistics, Research, and Evaluation, Division of Research & Epidemiology
Percent of Cesarean Deliveries by Race and Ethnicity
Metrowest Region and Massachusetts: 2005

![Bar chart showing the percent of Cesarean deliveries by race and ethnicity in Metrowest Region and Massachusetts in 2005.](chart.png)

Metrowest Region
- White non-Hispanic: 35 *
- Black non-Hispanic: 40 *
- Hispanic: 32
- Asian non-Hispanic: 30

Massachusetts
- White non-Hispanic: 33 *
- Black non-Hispanic: 34
- Hispanic: 27 *
- Asian non-Hispanic: 29 *

State Overall: 32

(*) Statistically different from State (p ≤ .05)

Source: MDPH, Bureau of Health Information, Statistics, Research, and Evaluation, Division of Research & Epidemiology
CHRONIC DISEASE OUTCOMES
AND OVERWEIGHT/OBESITY
**Overweight\(^1\) by Race and Ethnicity
Metrowest Region and Massachusetts: 2005**

<table>
<thead>
<tr>
<th>Race/Ethnicity</th>
<th>Metrowest Region</th>
<th>Massachusetts</th>
</tr>
</thead>
<tbody>
<tr>
<td>White non-Hispanic</td>
<td>52</td>
<td>56</td>
</tr>
<tr>
<td>Black non-Hispanic</td>
<td>72</td>
<td>68*</td>
</tr>
<tr>
<td>Hispanic</td>
<td>NA</td>
<td>6</td>
</tr>
<tr>
<td>Asian non-Hispanic</td>
<td>66</td>
<td>63</td>
</tr>
</tbody>
</table>

(*) Statistically different from State (p ≤ 0.05)

\(^1\) Overweight: BMI greater than or equal to 25

Source: MDPH, Bureau of Health Information, Statistics, Research, and Evaluation, Massachusetts Behavioral Risk Factor Surveillance System (BRFSS), Health Survey Program

---

**Hypertension Hospital Discharge Rate by Race/Ethnicity
Metrowest Region Massachusetts: 2003-2005**

<table>
<thead>
<tr>
<th>Race/Ethnicity</th>
<th>Metrowest Region</th>
<th>Massachusetts</th>
</tr>
</thead>
<tbody>
<tr>
<td>White non-Hispanic</td>
<td>26*</td>
<td>28*</td>
</tr>
<tr>
<td>Black non-Hispanic</td>
<td>143*</td>
<td>176*</td>
</tr>
<tr>
<td>Hispanic</td>
<td>66*</td>
<td>89*</td>
</tr>
<tr>
<td>Asian non-Hispanic</td>
<td>22*</td>
<td>33</td>
</tr>
</tbody>
</table>

(*) Statistically different from State (p ≤ 0.05)

Age-adjusted to the 2000 US standard population.

Source: Division of Health Care Finance and Policy. Calendar Year 2003-2005. Inpatient Hospital Discharge Database
Heart Disease Death Rate by Race/Ethnicity  
Metrowest Region and Massachusetts: 2003-2005

- White non-Hispanic
- Black non-Hispanic
- Hispanic
- Asian non-Hispanic

Deaths per 100,000

**Metrowest Region**
- White non-Hispanic: 163*
- Black non-Hispanic: 63*
- Hispanic: 58*
- Asian non-Hispanic: 50

**Massachusetts**
- White non-Hispanic: 209*
- Black non-Hispanic: 104*
- Hispanic: 68*

Source: MDPH, Bureau of Health Information, Statistics, Research, and Evaluation, Division of Research & Epidemiology

(*) Statistically different from State (p ≤ .05)

Age-adjusted to the 2000 US standard population.

---

Diabetes Hospital Discharge Rate by Race/Ethnicity  
Metrowest Region Massachusetts: 2003-2005

- White non-Hispanic
- Black non-Hispanic
- Hispanic
- Asian non-Hispanic

Discharges per 100,000

**Metrowest Region**
- White non-Hispanic: 105*
- Black non-Hispanic: 301*
- Hispanic: 30*
- Asian non-Hispanic: 114*

**Massachusetts**
- White non-Hispanic: 368*
- Black non-Hispanic: 242*
- Hispanic: 45 *

Source: Division of Health Care Finance and Policy. Calendar Year 2003-2005. Inpatient Hospital Discharge Database

(*) Statistically different from State (p ≤ .05)

Age-adjusted to the 2000 US standard population.
Diabetes Mortality Rate by Race/Ethnicity
Metrowest Region and Massachusetts: 2003-2005

- White non-Hispanic
- Black non-Hispanic
- Hispanic
- Asian non-Hispanic

Metrowest Region

- 15 *
- 19
- 14
- 14

Massachusetts

- 38 *
- 39 *
- 29 *

(*) Statistically different from State (p ≤ 0.05)
Age-adjusted to the 2000 US standard population.
Source: MDPH, Bureau of Health Information, Statistics, Research, and Evaluation, Division of Research & Epidemiology

State Overall: 18
CANCER

State Overall: 48

Incidence Rates for Invasive Female Breast Cancer by Race and Ethnicity, Metrowest Region & Massachusetts: 1999-2003

State Overall: 139

(*) Statistically different from State (p ≤ 0.05)
Age-adjusted to the 2000 US standard population.
Source: MDPH, Bureau of Health Information, Statistics, Research, and Evaluation, Cancer Registry
Female Breast Cancer Mortality Rates by Race and Ethnicity, Metrowest Region & Massachusetts: 2001-2005

<table>
<thead>
<tr>
<th>White non-Hispanic</th>
<th>Black non-Hispanic</th>
<th>Hispanic</th>
<th>Asian non-Hispanic</th>
</tr>
</thead>
<tbody>
<tr>
<td>25</td>
<td>17</td>
<td>12*</td>
<td>7*</td>
</tr>
<tr>
<td>25</td>
<td>29</td>
<td>13*</td>
<td>7*</td>
</tr>
</tbody>
</table>

(*) Statistically different from State (p ≤ .05)
Age-adjusted to the 2000 US standard population.
Source: MDPH, Bureau of Health Information, Statistics, Research, and Evaluation, Division of Research & Epidemiology

Current Smoker by Race and Ethnicity Metrowest Region and Massachusetts: 2005

<table>
<thead>
<tr>
<th>White non-Hispanic</th>
<th>Black non-Hispanic</th>
<th>Hispanic</th>
</tr>
</thead>
<tbody>
<tr>
<td>13*</td>
<td>18</td>
<td>18</td>
</tr>
<tr>
<td>NA</td>
<td>16</td>
<td>18</td>
</tr>
</tbody>
</table>

(*) Statistically different from State (p ≤ .05)
Source: MDPH, Bureau of Health Information, Statistics, Research, and Evaluation, Health Survey Program
Smoking During Pregnancy by Race and Ethnicity
Metrowest Region and Massachusetts: 2005

<table>
<thead>
<tr>
<th>Race and Ethnicity</th>
<th>Metrowest Region</th>
<th>Massachusetts</th>
</tr>
</thead>
<tbody>
<tr>
<td>White non-Hispanic</td>
<td>3.8*</td>
<td>8.4*</td>
</tr>
<tr>
<td>Black non-Hispanic</td>
<td>3.4*</td>
<td>6.1*</td>
</tr>
<tr>
<td>Hispanic</td>
<td>1.9*</td>
<td></td>
</tr>
<tr>
<td>Asian non-Hispanic</td>
<td>0.3*</td>
<td>1.4*</td>
</tr>
</tbody>
</table>

(*) Statistically different from State (p ≤ 0.05)

Source: MDPH, Bureau of Health Information, Statistics, Research, and Evaluation, Division of Research & Epidemiology

Lung Cancer Mortality Rates by Race and Ethnicity, Metrowest Region & Massachusetts: 2001-2005

<table>
<thead>
<tr>
<th>Race and Ethnicity</th>
<th>Metrowest Region</th>
<th>Massachusetts</th>
</tr>
</thead>
<tbody>
<tr>
<td>White non-Hispanic</td>
<td>49*</td>
<td>55*</td>
</tr>
<tr>
<td>Black non-Hispanic</td>
<td>41*</td>
<td>54</td>
</tr>
<tr>
<td>Hispanic</td>
<td>13*</td>
<td>25*</td>
</tr>
<tr>
<td>Asian non-Hispanic</td>
<td>20*</td>
<td>29*</td>
</tr>
</tbody>
</table>

(*) Statistically different from State (p ≤ 0.05)

Age-adjusted to the 2000 US standard population.

Source: MDPH, Bureau of Health Information, Statistics, Research, and Evaluation, Division of Research & Epidemiology
SUBSTANCE ABUSE
Opioid-Related Emergency Department Visit Rates by Race/Ethnicity
Metrowest Region and Massachusetts: 2003-2005

(*) Statistically different from State (p ≤ 0.05)
Age-adjusted to the 2000 US standard population.
Source: Division of Health Care Finance and Policy. Calendar Year 2003-2005. Emergency Department Visits

Opioid-Related Emergency Department Visit Rates by Race/Ethnicity Quincy, Randolph, and Somerville vs. Massachusetts: 2003-2005

(*) Statistically different from State (p ≤ 0.05)
Age-adjusted to the 2000 US standard population.
Source: Division of Health Care Finance and Policy. Calendar Year 2003-2005. Emergency Department Visits
INJURY AND VIOLENCE
Injury-Related Hospital Discharge Rates by Race/Ethnicity, Metrowest Region & Massachusetts: 2003-2005

Discharges per 100,000

Metrowest Region | Massachusetts
---|---
White non-Hispanic: 748* | 812*
Black non-Hispanic: 590* | 704*
Hispanic: 520* | 301*
Asian non-Hispanic: 250* | State Overall: 836

(*) Statistically different from State (p ≤ 0.05)
Age-adjusted to the 2000 US standard population.
Source: Division of Health Care Finance and Policy. Calendar Year 2003-2005. Hospital Discharges

Emergency Department Visit Rates for Injuries & Poisonings by Race/Ethnicity, Metrowest Region and Massachusetts: 2003-2005

Visits per 100,000

Metrowest Region | Massachusetts
---|---
White non-Hispanic: 10,602* | 14,158 *
Black non-Hispanic: 10,024* | 10,930 *
Hispanic: 8,952* | 11,930 *
Asian non-Hispanic: 2,528* | 3,277 *
State Overall: 11,298

(*) Statistically different from State (p ≤ 0.05)
Age-adjusted to the 2000 US standard population.
Source: Division of Health Care Finance and Policy. Calendar Year 2003-2005. Emergency Department Visits
Hospital Discharge Rates for Traumatic Brain Injury by Race/Ethnicity, Metrowest Region and Massachusetts: 2003-2005

- White non-Hispanic
- Black non-Hispanic
- Hispanic
- Asian non-Hispanic

Discharges per 100,000

Metrowest Region

- White non-Hispanic: 63 *
- Black non-Hispanic: 58 *
- Hispanic: 52 *
- Asian non-Hispanic: 39 *

Massachusetts

- White non-Hispanic: 76 *
- Black non-Hispanic: 82
- Hispanic: 85
- Asian non-Hispanic: 39 *

State Overall: 80

(*) Statistically different from State (p ≤ .05)
Age-adjusted to the 2000 US standard population.
Source: Division of Health Care Finance and Policy. Calendar Year 2003-2005. Hospital Discharges

Emergency Department Visit Rates for Traumatic Brain Injury by Race/Ethnicity, Metrowest Region and Massachusetts: 2003-2005

- White non-Hispanic
- Black non-Hispanic
- Hispanic
- Asian non-Hispanic

Visits per 100,000

Metrowest Region

- White non-Hispanic: 568*
- Black non-Hispanic: 539*
- Hispanic: 496*
- Asian non-Hispanic: 191*

Massachusetts

- White non-Hispanic: 595*
- Black non-Hispanic: 663*
- Hispanic: 588
- Asian non-Hispanic: 215*

State Overall: 604

(*) Statistically different from State (p ≤ .05)
Age-adjusted to the 2000 US standard population.
Source: Division of Health Care Finance and Policy. Calendar Year 2005. Emergency Visits
Hospital Discharge Rates for Assaults by Race/Ethnicity, Metrowest Region and Massachusetts: 2003-2005

Crum rates.
Source: Division of Health Care Finance and Policy. Calendar Year 2003-2005. Hospital Discharges

Homicide Rates by Race/Ethnicity Metrowest Region and Massachusetts: 2003-2005

Age-adjusted to the 2000 US standard population.
Source: MDPH, Bureau of Health Information, Statistics, Research, and Evaluation, Division of Research & Epidemiology
Hospital Discharge Rates for Self-Inflicted Injuries by Race/Ethnicity, Metrowest Region and Massachusetts: 2003-2005

- White non-Hispanic
- Black non-Hispanic
- Hispanic
- Asian non-Hispanic

Discharges per 100,000

Metrowest Region

- White non-Hispanic: 49*
- Black non-Hispanic: 42*
- Hispanic: 39*
- Asian non-Hispanic: 10*

Massachusetts

- White non-Hispanic: 64
- Black non-Hispanic: 62
- Hispanic: 73*
- Asian non-Hispanic: 17*

State Overall: 65

(*) Statistically different from State (p ≤ .05)
Age-adjusted to the 2000 US standard population.
Source: Division of Health Care Finance and Policy. Calendar Year 2003-2005. Hospital Discharges

Suicide Rates by Race/Ethnicity, Metrowest Region and Massachusetts: 2003-2005

- White non-Hispanic
- Black non-Hispanic
- Hispanic
- Asian non-Hispanic

Deaths per 100,000

Metrowest Region

- White non-Hispanic: 6
- Black non-Hispanic: 2*
- Hispanic: 7
- Asian non-Hispanic: 4*

Massachusetts

- White non-Hispanic: 4*
- Black non-Hispanic: 4*
- Hispanic: 5
- Asian non-Hispanic: 7

State Overall: 7

(*) Statistically different from State (p ≤ .05)
Age-adjusted to the 2000 US standard population.
Source: MDPH, Bureau of Health Information, Statistics, Research, and Evaluation, Division of Research & Epidemiology
Hospital Discharge Rates for Motor Vehicle-Related Injuries by Race/Ethnicity, Metrowest Region and Massachusetts: 2003-2005

Discharges per 100,000

Metrowest Region Massachusetts

White non-Hispanic Black non-Hispanic Hispanic Asian non-Hispanic

State Overall: 77

54* 68 65 22* 72* 90* 81 33*

(*) Statistically different from State (p ≤ .05)

Age-adjusted to the 2000 US standard population.

Source: Division of Health Care Finance and Policy. Calendar Year 2003-2005. Hospital Discharges

Motor Vehicle-Related Death Rates by Race/Ethnicity Metrowest Region and Massachusetts: 2003-2005

Deaths per 100,000

Metrowest Region Massachusetts

White non-Hispanic Black non-Hispanic Hispanic Asian non-Hispanic

State Overall: 7.7

5.6* 5.2 8.0 2.5* 7.9 7.5 7.1 5.0*

(*) Statistically different from State (p ≤ .05)

Age-adjusted to the 2000 US standard population.

Source: MDPH, Bureau of Health Information, Statistics, Research, and Evaluation, Division of Research & Epidemiology
Emergency Department Visit Rates for Firearm Injuries by Race/Ethnicity
Metrowest Region and Massachusetts: 2003-2005

<table>
<thead>
<tr>
<th></th>
<th>White non-Hispanic</th>
<th>Black non-Hispanic</th>
<th>Hispanic</th>
<th>Asian non-Hispanic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Metrowest Region</td>
<td>1*</td>
<td>11</td>
<td>3*</td>
<td>NA</td>
</tr>
<tr>
<td>Massachusetts</td>
<td>2*</td>
<td>38*</td>
<td>19*</td>
<td>3*</td>
</tr>
<tr>
<td>State Overall</td>
<td>7</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Visits per 100,000

(*) Statistically different from State (p ≤ .05)
Age-adjusted to the 2000 US standard population.

Firearm Death Rates by Race/Ethnicity
Metrowest Region and Massachusetts: 2003-2005

<table>
<thead>
<tr>
<th></th>
<th>White non-Hispanic</th>
<th>Black non-Hispanic</th>
<th>Hispanic</th>
<th>Asian non-Hispanic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Metrowest Region</td>
<td>1*</td>
<td>2</td>
<td>NA</td>
<td>NA</td>
</tr>
<tr>
<td>Massachusetts</td>
<td>2*</td>
<td>13*</td>
<td>4</td>
<td>1*</td>
</tr>
<tr>
<td>State Overall</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Deaths per 100,000

(*) Statistically different from State (p ≤ .05)
Age-adjusted to the 2000 US standard population.
Source: MDPH, Bureau of Health Information, Statistics, Research, and Evaluation, Division of Research & Epidemiology
Hospital Discharge Rates for Fall-Related Injuries Ages 65+ by Race/Ethnicity, Metrowest Region and Massachusetts: 2003-2005

Ages 65+ by Race/Ethnicity, Metrowest Region and Massachusetts: 2003-2005

Age-adjusted to the 2000 US standard population.
Source: Division of Health Care Finance and Policy. Calendar Year 2003-2005. Hospital Discharges

(*) Statistically different from State (p ≤ 0.05)

Hospital Discharge Rates for Fall-Related Injuries by Race/Ethnicity, Metrowest Region and Massachusetts: 2003-2005

Age-adjusted to the 2000 US standard population.
Source: Division of Health Care Finance and Policy. Calendar Year 2003-2005. Hospital Discharges

(*) Statistically different from State (p ≤ 0.05)
Emergency Department Visit Rates for Fall-Related Injuries by Race/Ethnicity Metrowest Region and Massachusetts: 2003-2005

*White non-Hispanic, Black non-Hispanic, Hispanic, Asian non-Hispanic

State Overall: 2,750

Visits per 100,000

Metrowest Region

Massachusetts

2,463* 1,903* 2,003* 2,783*

2,504* 2,502* 784*

(*) Statistically different from State (p ≤ .05)

Age-adjusted to the 2000 US standard population.

Source: Division of Health Care Finance and Policy. Calendar Year 2005. Emergency Visits
HIV/AIDS
**Persons Living with HIV by Race/Ethnicity**

**Metrowest Region and Massachusetts: 2005**

<table>
<thead>
<tr>
<th></th>
<th>White non-Hispanic</th>
<th>Black non-Hispanic</th>
<th>Hispanic</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Metrowest Region</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Persons per 100,000</td>
<td>85*</td>
<td>1,028*</td>
<td>370*</td>
</tr>
<tr>
<td><strong>Massachusetts</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Persons per 100,000</td>
<td>138*</td>
<td>1,136*</td>
<td>781*</td>
</tr>
</tbody>
</table>

(*) Statistically different from State (p ≤ 0.05)

Crude rates

Source: MDPH, BCDC HIV/AIDS Files as of 09/01/06

---

**HIV/AIDS Death Rate by Race/Ethnicity**

**Metrowest Region and Massachusetts: 2003-2005**

<table>
<thead>
<tr>
<th></th>
<th>White non-Hispanic</th>
<th>Black non-Hispanic</th>
<th>Hispanic</th>
<th>Asian non-Hispanic</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Metrowest Region</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Deaths per 100,000</td>
<td>1*</td>
<td>6</td>
<td>5</td>
<td>NA</td>
</tr>
<tr>
<td><strong>Massachusetts</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Deaths per 100,000</td>
<td>2*</td>
<td>16*</td>
<td>13*</td>
<td>1*</td>
</tr>
</tbody>
</table>

(*) Statistically different from State (p ≤ 0.05)

Age-adjusted to the 2000 US standard population.

Source: MDPH, Bureau of Health Information, Statistics, Research, and Evaluation, Division of Research & Epidemiology
ASTHMA
Emergency Department Visit Rates for Asthma by Race/Ethnicity Metrowest Region and Massachusetts: 2005

Visits per 100,000

Metrowest Region

Massachusetts

White non-Hispanic
Black non-Hispanic
Hispanic
Asian non-Hispanic

State Overall: 577

(*) Statistically different from State (p ≤ 0.05)
Age-adjusted to the 2000 US standard population.
Source: Division of Health Care Finance and Policy. Calendar Year 2005. Emergency Visits

(*) Statistically different from State (p ≤ 0.05)
Age-adjusted to the 2000 US standard population.
Source: Division of Health Care Finance and Policy. Calendar Year 2005. Emergency Visits
PREMATURE MORTALITY
Premature Mortality Rate (PMR)

- **Definition**
  - deaths before age 75

- **Rationale**
  - two-thirds of deaths to persons ages 75+
  - vast majority of deaths to persons age 75+ are due to chronic conditions associated with aging
  - focusing on deaths to persons less than 75 years may be more preventable

- **Summary health statistic**
  - excellent measure to reflect the health status of a population
  - used as a health status indicator that can be used to focus prevention initiatives and target programs

1. Age-adjusted to the 2000 US standard population under 75 years of age.
Source: MDPH, Bureau of Health Information, Statistics, Research, & Evaluation, Division of Research & Epidemiology

---

Premature Mortality Rate by Race/Ethnicity
Metrowest Region and Massachusetts: 2003-2005

<table>
<thead>
<tr>
<th></th>
<th>White non-Hispanic</th>
<th>Black non-Hispanic</th>
<th>Hispanic</th>
<th>Asian non-Hispanic</th>
<th>American Indian, Non-Hispanic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Metrowest Region</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Deaths per 100,000</td>
<td>336</td>
<td>165*</td>
<td>122*</td>
<td>NA</td>
<td></td>
</tr>
<tr>
<td>State Overall:</td>
<td>325</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Massachusetts</td>
<td></td>
<td>487*</td>
<td>298*</td>
<td>154*</td>
<td>298</td>
</tr>
</tbody>
</table>

(*) Statistically different from State (p ≤ .05)
Age-adjusted to the 2000 US standard population under 75 years of age.
Source: MDPH, Bureau of Health Information, Statistics, Research, & Evaluation, Division of Research & Epidemiology
V. SOUTHEAST REGION
SOCIODEMOGRAPHIC INDICATORS AND HEALTH CARE ACCESS AND STATUS
2005 Population by Communities
Southeast Region: 2005

Smallest
Gosnold: 86

Largest
Brockton: 100,366

Source: MDPH, Bureau of Health Information, Statistics, Research, & Evaluation, Division of Research & Epidemiology

Race and Ethnic Breakdown of Population
Southeast Region and Massachusetts: 2005

Southeast Region

<table>
<thead>
<tr>
<th>Race/Ethnicity</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>White*</td>
<td>89.5%</td>
</tr>
<tr>
<td>Black*</td>
<td>5.2%</td>
</tr>
<tr>
<td>Hispanic</td>
<td>3.4%</td>
</tr>
<tr>
<td>Asian*</td>
<td>1.5%</td>
</tr>
<tr>
<td>American Indian*</td>
<td>0.3%</td>
</tr>
</tbody>
</table>

Massachusetts

<table>
<thead>
<tr>
<th>Race/Ethnicity</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>White*</td>
<td>81.0%</td>
</tr>
<tr>
<td>Black*</td>
<td>6.0%</td>
</tr>
<tr>
<td>Hispanic</td>
<td>7.9%</td>
</tr>
<tr>
<td>Asian*</td>
<td>4.9%</td>
</tr>
<tr>
<td>American Indian*</td>
<td>0.2%</td>
</tr>
</tbody>
</table>

Population Total = 1,278,245
Population Total = 6,436,940

* Non-Hispanics

Source: MDPH, Bureau of Health Information, Statistics, Research, & Evaluation, Division of Research & Epidemiology
Race/Ethnicity Proportions
Largest Cities in Southeast Region: 2005

Source: MDPH, Bureau of Health Information, Statistics, Research, & Evaluation, Division of Research & Epidemiology

Race and Ethnic Breakdown of Population
Cape & Islands and Massachusetts: 2005

Source: MDPH, Bureau of Health Information, Statistics, Research, & Evaluation, Division of Research & Epidemiology

* Non-Hispanics
## Cities with the Largest American Indian Populations, Massachusetts: Census 2000

<table>
<thead>
<tr>
<th>City / Town</th>
<th>American Indian (Alone)</th>
<th>City / Town</th>
<th>American Indian (Alone, or in Combination)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boston</td>
<td>2,365</td>
<td>Boston</td>
<td>5,384</td>
</tr>
<tr>
<td>Worcester</td>
<td>769</td>
<td>Worcester</td>
<td>1,700</td>
</tr>
<tr>
<td>Lawrence</td>
<td>583</td>
<td>Springfield</td>
<td>1,473</td>
</tr>
<tr>
<td>New Bedford</td>
<td>579</td>
<td>New Bedford</td>
<td>1,288</td>
</tr>
<tr>
<td>Springfield</td>
<td>569</td>
<td>Lawrence</td>
<td>921</td>
</tr>
<tr>
<td>Mashpee</td>
<td>377</td>
<td>Brockton</td>
<td>876</td>
</tr>
<tr>
<td>Brockton</td>
<td>338</td>
<td>Cambridge</td>
<td>863</td>
</tr>
<tr>
<td>Lynn</td>
<td>332</td>
<td>Lynn</td>
<td>796</td>
</tr>
<tr>
<td>Cambridge</td>
<td>290</td>
<td>Lowell</td>
<td>676</td>
</tr>
<tr>
<td>Barnstable</td>
<td>283</td>
<td>Fall River</td>
<td>587</td>
</tr>
</tbody>
</table>

Source: MDPH, Bureau of Health Information, Statistics, Research, & Evaluation, Division of Research & Epidemiology

## Race/Ethnicity in the Largest Cities Southeast and Massachusetts: 2005

<table>
<thead>
<tr>
<th>Percent</th>
<th>Fall River</th>
<th>New Bedford</th>
<th>Brockton</th>
<th>Southeast</th>
<th>Massachusetts</th>
</tr>
</thead>
<tbody>
<tr>
<td>88</td>
<td>31</td>
<td>9</td>
<td>5</td>
<td>81</td>
<td></td>
</tr>
<tr>
<td>77</td>
<td>31</td>
<td>9</td>
<td>5</td>
<td>81</td>
<td></td>
</tr>
<tr>
<td>56</td>
<td>31</td>
<td>9</td>
<td>5</td>
<td>81</td>
<td></td>
</tr>
<tr>
<td>90</td>
<td>31</td>
<td>9</td>
<td>5</td>
<td>81</td>
<td></td>
</tr>
<tr>
<td>81</td>
<td>31</td>
<td>9</td>
<td>5</td>
<td>81</td>
<td></td>
</tr>
</tbody>
</table>

Source: MDPH, Bureau of Health Information, Statistics, Research, & Evaluation, Division of Research & Epidemiology
Population by Age Group
Cape & Islands and Massachusetts: 2005

Cape & Islands

Total = 252,204

Massachusetts

Total = 6,436,940

Southeast (non-Cape)

Total = 1,026,041

Source: MDPH, Bureau of Health Information, Statistics, Research, & Evaluation Bureau, Research & Epidemiology Program

Language Spoken at Home,
Southeast Region and Massachusetts: 2000

<table>
<thead>
<tr>
<th>Language</th>
<th>Southeast Region</th>
<th>Massachusetts Overall</th>
</tr>
</thead>
<tbody>
<tr>
<td>Only English</td>
<td>85.4</td>
<td>81.3</td>
</tr>
<tr>
<td>Spanish or Spanish Creole</td>
<td>2.5</td>
<td>6.2</td>
</tr>
<tr>
<td>Portuguese or Portuguese Creole</td>
<td>7.4</td>
<td>2.7</td>
</tr>
<tr>
<td>French</td>
<td>1.3</td>
<td>1.4</td>
</tr>
<tr>
<td>Chinese</td>
<td>0.2</td>
<td>1.2</td>
</tr>
<tr>
<td>Italian</td>
<td>0.4</td>
<td>1.0</td>
</tr>
<tr>
<td>French Creole</td>
<td>0.7</td>
<td>0.7</td>
</tr>
<tr>
<td>Russian</td>
<td>0.1</td>
<td>0.6</td>
</tr>
<tr>
<td>Vietnamese</td>
<td>0.1</td>
<td>0.5</td>
</tr>
<tr>
<td>Polish</td>
<td>0.2</td>
<td>0.5</td>
</tr>
<tr>
<td>Other languages</td>
<td>1.7</td>
<td>3.9</td>
</tr>
</tbody>
</table>

Source: MDPH, Bureau of Health Information, Statistics, Research, & Evaluation, Division of Research & Epidemiology
Socio-Demographic Indicators
Southeast Region and Largest Cities: 2000

<table>
<thead>
<tr>
<th></th>
<th>Brockton</th>
<th>Fall River</th>
<th>New Bedford</th>
<th>Southeast w/o 3 Largest Cities</th>
<th>MA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Per Capita Income</td>
<td>$17,163</td>
<td>$16,118</td>
<td>$15,602</td>
<td>$24,695</td>
<td>$25,952</td>
</tr>
<tr>
<td>Persons living below 100% poverty</td>
<td>14.5%</td>
<td>17.1%</td>
<td>20.2%</td>
<td>5.6%</td>
<td>9.3%</td>
</tr>
<tr>
<td>Children &lt; 18 living below 100% poverty</td>
<td>19.4%</td>
<td>25.4%</td>
<td>29.0%</td>
<td>6.2%</td>
<td>12.0%</td>
</tr>
<tr>
<td>Less than a High School Education</td>
<td>24.1%</td>
<td>43.4%</td>
<td>42.4%</td>
<td>12.8%</td>
<td>15.2%</td>
</tr>
<tr>
<td>Foreign born</td>
<td>18.4%</td>
<td>19.8%</td>
<td>19.6%</td>
<td>9.0%</td>
<td>12.2%</td>
</tr>
<tr>
<td>Speak language other than English at home</td>
<td>28.4%</td>
<td>34.6%</td>
<td>37.8%</td>
<td>5.6%</td>
<td>18.7%</td>
</tr>
<tr>
<td>Unemployed</td>
<td>6.7%</td>
<td>8.1%</td>
<td>8.4%</td>
<td>2.9%</td>
<td>5.1%</td>
</tr>
</tbody>
</table>

Source: MDPH, Bureau of Health Information, Statistics, Research, & Evaluation, Division of Research & Epidemiology

Adults who Have No Health Insurance by Race and Ethnicity
Southeast Region and Massachusetts: 2005

- White non-Hispanic
- Black non-Hispanic
- Hispanic

<table>
<thead>
<tr>
<th></th>
<th>Southeast Region</th>
<th>Massachusetts</th>
</tr>
</thead>
<tbody>
<tr>
<td>White non-Hispanic</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Black non-Hispanic</td>
<td>9.0</td>
<td>7.0</td>
</tr>
<tr>
<td>Hispanic</td>
<td>35.2*</td>
<td>23.8*</td>
</tr>
</tbody>
</table>

State Overall: 8.9

Statistically different from State (p ≤ .05) Red (*) = Statistically worse; Green (**) = Statistically better

Source: MDPH, Bureau of Health Information, Statistics, Research, and Evaluation, Massachusetts Behavioral Risk Factor Surveillance System (BRFSS), Health Survey Program
Adults who Reported Fair or Poor Health by Race and Ethnicity Southeast Region and Massachusetts: 2005

<table>
<thead>
<tr>
<th>Race/Ethnicity</th>
<th>Southeast Region</th>
<th>Massachusetts</th>
</tr>
</thead>
<tbody>
<tr>
<td>White non-Hispanic</td>
<td>13</td>
<td>12</td>
</tr>
<tr>
<td>Black non-Hispanic</td>
<td>22</td>
<td>17</td>
</tr>
<tr>
<td>Hispanic</td>
<td>26</td>
<td>23</td>
</tr>
</tbody>
</table>

State Overall: 13

Source: MDPH, Bureau of Health Information, Statistics, Research, and Evaluation, Massachusetts Behavioral Risk Factor Surveillance System (BRFSS), Health Survey Program

Statistically different from state (p ≤ 0.05) — Red (*) Statistically worse than state - Green (**) statistically better than state
BIRTH OUTCOMES
Births by Race and Hispanic Ethnicity
Southeast Region and Massachusetts: 2005

Southeast Region
(n=14,681)

Massachusetts
(n=76,824)

WNH 81%
BNH 7%
API 2%
Other 4%
HIP 6%

WNH 69%
BNH 8%
API 7%
Other 3%
HIP 13%

Source: MDPH, Bureau of Health Information, Statistics, Research, & Evaluation, Division of Research & Epidemiology

Births by Race and Hispanic Ethnicity
Cape & Islands and Massachusetts: 2005

Cape & Islands
(n=2,311)

Massachusetts
(n=76,824)

WNH 86%
BNH 4%
API 2%
Other 4%
HIP 4%

WNH 69%
BNH 8%
API 7%
Other 3%
HIP 13%

Source: MDPH, Bureau of Health Information, Statistics, Research, & Evaluation, Division of Research & Epidemiology
Percent Distribution of Births by Ethnicity
Southeast Region and Massachusetts: 2005

Southeast Region
(n=14,681)

- European: 49%
- Other: 32%
- Puerto Rican: 6%
- Cape Verdean: 3%
- Other Portuguese: 7%
- Brazilian: 2%

Massachusetts
(n=76,824)

- European: 43%
- Other: 38%
- Puerto Rican: 3%
- Cape Verdean: 4%
- Other Portuguese: 2%
- Brazilian: 3%

Source: MDPH, Bureau of Health Information, Statistics, Research, & Evaluation, Division of Research & Epidemiology

Infant Mortality Rates by Race/Ethnicity
Southeast Region and Massachusetts: 2002-2005

- White non-Hispanic
- Black non-Hispanic
- Hispanic
- Asian non-Hispanic

Southeast Region

<table>
<thead>
<tr>
<th>Race/Ethnicity</th>
<th>Deaths per 1000 live births</th>
</tr>
</thead>
<tbody>
<tr>
<td>White non-Hispanic</td>
<td>4.2</td>
</tr>
<tr>
<td>Hispanic</td>
<td>NA</td>
</tr>
<tr>
<td>Asian non-Hispanic</td>
<td>4.1*</td>
</tr>
</tbody>
</table>

Massachusetts

<table>
<thead>
<tr>
<th>Race/Ethnicity</th>
<th>Deaths per 1000 live births</th>
</tr>
</thead>
<tbody>
<tr>
<td>White non-Hispanic</td>
<td>6.3</td>
</tr>
<tr>
<td>Black non-Hispanic</td>
<td>10.1*</td>
</tr>
<tr>
<td>Hispanic</td>
<td>7.0*</td>
</tr>
<tr>
<td>Asian non-Hispanic</td>
<td>3.0*</td>
</tr>
</tbody>
</table>

State Overall: 4.9

Statistically different from State (p ≤ 0.05) Red (*) = Statistically worse; Green (**) = Statistically better

Source: MDPH, Bureau of Health Information, Statistics, Research, & Evaluation, Division of Research & Epidemiology
Low birthweight by Race and Ethnicity
Southeast Region and Massachusetts: 2005

- White non-Hispanic
- Black non-Hispanic
- Hispanic
- Asian non-Hispanic

<table>
<thead>
<tr>
<th>Race/Ethnicity</th>
<th>Southeast Region</th>
<th>Massachusetts</th>
</tr>
</thead>
<tbody>
<tr>
<td>White non-Hispanic</td>
<td>7.9%</td>
<td>7.8%</td>
</tr>
<tr>
<td>Black non-Hispanic</td>
<td>8.5%</td>
<td>8.2%</td>
</tr>
<tr>
<td>Hispanic</td>
<td>7.4%</td>
<td>7.8%</td>
</tr>
<tr>
<td>Asian non-Hispanic</td>
<td>7.3%</td>
<td>12.0%</td>
</tr>
</tbody>
</table>

Statistically different from State (p ≤ 0.05) Red (*) = Statistically worse; Green (**) = Statistically better
Low birthweight: less than 2,500 grams or 5.5 pounds
Source: MDPH, Bureau of Health Information, Statistics, Research, & Evaluation, Division of Research & Epidemiology

Teen Birth Rates by Race and Ethnicity
Southeast Region and Massachusetts: 2005

- White non-Hispanic
- Black non-Hispanic
- Hispanic
- Asian non-Hispanic

<table>
<thead>
<tr>
<th>Race/Ethnicity</th>
<th>Southeast Region</th>
<th>Massachusetts</th>
</tr>
</thead>
<tbody>
<tr>
<td>White non-Hispanic</td>
<td>11.3%</td>
<td>18%</td>
</tr>
<tr>
<td>Black non-Hispanic</td>
<td>18%</td>
<td>27%</td>
</tr>
<tr>
<td>Hispanic</td>
<td>12.0%</td>
<td>36%</td>
</tr>
<tr>
<td>Asian non-Hispanic</td>
<td>15%</td>
<td>15%</td>
</tr>
</tbody>
</table>

(*) Statistically different from State (p ≤ 0.05)
Teen Birth Rate: the number of births to women ages 15-19 per 1,000 women ages 15-19
Source: MDPH, Bureau of Health Information, Statistics, Research, & Evaluation, Division of Research & Epidemiology
CHRONIC DISEASE OUTCOMES AND OVERWEIGHT/OBESITY
Adult Obesity\(^1\) by Race and Ethnicity
Southeast Region and Massachusetts: 2005

<table>
<thead>
<tr>
<th></th>
<th>Southeast Region</th>
<th>Massachusetts</th>
</tr>
</thead>
<tbody>
<tr>
<td>White non-Hispanic</td>
<td>22</td>
<td>20</td>
</tr>
<tr>
<td>Black non-Hispanic</td>
<td>24</td>
<td>27</td>
</tr>
<tr>
<td>Hispanic</td>
<td>27(^*)</td>
<td>33(^*)</td>
</tr>
</tbody>
</table>

State Overall: 21

(*) Statistically different from State (p ≤ .05)
\(^1\) Obese: BMI greater than or equal to 30

Source: MDPH, Bureau of Health Information, Statistics, Research, and Evaluation, Massachusetts Behavioral Risk Factor Surveillance System (BRFSS), Health Survey Program

Hypertension Hospital Discharge Rate by Race/Ethnicity
Southeast Region, Massachusetts: 2003-2005

<table>
<thead>
<tr>
<th></th>
<th>Southeast Region</th>
<th>Massachusetts</th>
</tr>
</thead>
<tbody>
<tr>
<td>White non-Hispanic</td>
<td>31(^*)</td>
<td>28(^*)</td>
</tr>
<tr>
<td>Black non-Hispanic</td>
<td>161(^*)</td>
<td>88(^*)</td>
</tr>
<tr>
<td>Hispanic</td>
<td>NA</td>
<td>33</td>
</tr>
<tr>
<td>Asian non-Hispanic</td>
<td>89(^*)</td>
<td>176(^*)</td>
</tr>
</tbody>
</table>

State Overall: 39

(*) Statistically different from State (p ≤ .05)
Age-adjusted to the 2000 US standard population.

Source: Division of Health Care Finance and Policy. Calendar Year 2003-2005. Inpatient Hospital Discharge Database
Heart Disease Death Rate by Race/Ethnicity
Southeast Region and Massachusetts: 2003-2005

- White non-Hispanic
- Black non-Hispanic
- Hispanic
- Asian non-Hispanic

Southeast Region Massachusetts

Deaths per 100,000

- White non-Hispanic: 194*, 185
- Black non-Hispanic: 286*, 209*
- Hispanic: 98*, 104*
- Asian non-Hispanic: 115*, 68*

Overall: 183

(*) Statistically different from State (p ≤ .05)
Age-adjusted to the 2000 US standard population.
Source: MDPH, Bureau of Health Information, Statistics, Research, & Evaluation, Division of Research & Epidemiology

Diabetes Hospital Discharge Rate by Race/Ethnicity
Southeast Region Massachusetts: 2003-2005

- White non-Hispanic
- Black non-Hispanic
- Hispanic
- Asian non-Hispanic

Southeast Region Massachusetts

Discharges per 100,000

- White non-Hispanic: 316*, 368*
- Black non-Hispanic: 215*, 242*
- Hispanic: 46*, 114*
- Asian non-Hispanic: 45*

Overall: 133

(*) Statistically different from State (p ≤ .05)
Age-adjusted to the 2000 US standard population.
Source: Division of Health Care Finance and Policy. Calendar Year 2003-2005. Inpatient Hospital Discharge Database
Diabetes Death Rate by Race/Ethnicity
Southeast Region and Massachusetts: 2003-2005

Southeast Region

Deaths per 100,000

<table>
<thead>
<tr>
<th>Race/Ethnicity</th>
<th>Deaths</th>
</tr>
</thead>
<tbody>
<tr>
<td>White non-Hispanic</td>
<td>38*</td>
</tr>
<tr>
<td>Black non-Hispanic</td>
<td>21</td>
</tr>
<tr>
<td>Hispanic</td>
<td>NA</td>
</tr>
<tr>
<td>Asian non-Hispanic</td>
<td>14</td>
</tr>
</tbody>
</table>

Massachusetts

<table>
<thead>
<tr>
<th>Race/Ethnicity</th>
<th>Deaths</th>
</tr>
</thead>
<tbody>
<tr>
<td>White non-Hispanic</td>
<td>18</td>
</tr>
<tr>
<td>Black non-Hispanic</td>
<td>17</td>
</tr>
<tr>
<td>Hispanic</td>
<td>14*</td>
</tr>
</tbody>
</table>

State Overall: 18

(*) Statistically different from State (p ≤ 0.05)
Age-adjusted to the 2000 US standard population.
Source: MDPH, Bureau of Health Information, Statistics, Research, & Evaluation, Division of Research & Epidemiology
CANCER
Women who had a Clinical Breast Exam in the Past Two Years by Race and Ethnicity
Southeast Region and Massachusetts: 2004

Southeast Region

<table>
<thead>
<tr>
<th>Race/Ethnicity</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>White non-Hispanic</td>
<td>87</td>
</tr>
<tr>
<td>Black non-Hispanic</td>
<td>NA</td>
</tr>
<tr>
<td>Hispanic</td>
<td>69</td>
</tr>
</tbody>
</table>

Massachusetts

<table>
<thead>
<tr>
<th>Race/Ethnicity</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>White non-Hispanic</td>
<td>88</td>
</tr>
<tr>
<td>Black non-Hispanic</td>
<td>81</td>
</tr>
<tr>
<td>Hispanic</td>
<td>78</td>
</tr>
</tbody>
</table>

Southeast Region Overall: 87
Massachusetts Overall: 88

(*) Statistically different from State (p ≤ 0.05)
Source: MDPH, Bureau of Health Information, Statistics, Research, and Evaluation, Massachusetts Behavioral Risk Factor Surveillance System (BRFSS), Health Survey Program

Current Smoker by Race and Ethnicity
Southeast Region and Massachusetts: 2005

Southeast Region

<table>
<thead>
<tr>
<th>Race/Ethnicity</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>White non-Hispanic</td>
<td>20</td>
</tr>
<tr>
<td>Black non-Hispanic</td>
<td>22</td>
</tr>
<tr>
<td>Hispanic</td>
<td>18</td>
</tr>
</tbody>
</table>

Massachusetts

<table>
<thead>
<tr>
<th>Race/Ethnicity</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>White non-Hispanic</td>
<td>18</td>
</tr>
<tr>
<td>Black non-Hispanic</td>
<td>16</td>
</tr>
<tr>
<td>Hispanic</td>
<td>18</td>
</tr>
</tbody>
</table>

Southeast Region Overall: 18
Massachusetts Overall: 18

(*) Statistically different from State (p ≤ 0.05)
Source: MDPH, Bureau of Health Information, Statistics, Research, and Evaluation, Massachusetts Behavioral Risk Factor Surveillance System (BRFSS), Health Survey Program
Smoking During Pregnancy by Race and Ethnicity
Southeast Region and Massachusetts: 2005

(*) Statistically different from State (p ≤ 0.05)
Age-adjusted to the 2000 US standard population.
Source: MDPH, Bureau of Health Information, Statistics, Research, & Evaluation, Division of Research & Epidemiology

Smoking During Pregnancy by Race and Ethnicity
Cape & Islands and Massachusetts: 2005

(*) Statistically different from State (p ≤ 0.05)
Source: MDPH, Bureau of Health Information, Statistics, Research, & Evaluation, Division of Research & Epidemiology
SUBSTANCE ABUSE
Opioid-Related Emergency Department Visit Rates by Race/Ethnicity
Southeast Region and Massachusetts: 2003-2005

(*) Statistically different from State (p ≤ 0.05)
Age-adjusted to the 2000 US standard population.
Source: Division of Health Care Finance and Policy. Calendar Year 2003-2005. Emergency Department Visits

Opioid-Related Fatal Overdoses by Race/Ethnicity
Southeast Region and Massachusetts: 2003-2005

(*) Statistically different from State (p ≤ 0.05)
Age-adjusted to the 2000 US standard population.
Source: MDPH, Bureau of Health Information, Statistics, Research, & Evaluation, Division of Research & Epidemiology
INJURY AND VIOLENCE
Injury-Related Hospital Discharge Rates by Race/Ethnicity, Southeast Region and Massachusetts: 2003-2005

Southeast Region Massachusetts

<table>
<thead>
<tr>
<th>Race/Ethnicity</th>
<th>Discharges per 100,000</th>
</tr>
</thead>
<tbody>
<tr>
<td>White non-Hispanic</td>
<td>825</td>
</tr>
<tr>
<td>Black non-Hispanic</td>
<td>806</td>
</tr>
<tr>
<td>Hispanic</td>
<td>730*</td>
</tr>
<tr>
<td>Asian non-Hispanic</td>
<td>212*</td>
</tr>
<tr>
<td>State Overall</td>
<td>836</td>
</tr>
</tbody>
</table>

(*) Statistically different from State (p ≤ 0.05)
Age-adjusted to the 2000 US standard population.
Source: Division of Health Care Finance and Policy. Calendar Year 2003-2005. Inpatient Hospital Discharge Database

Emergency Department Visit Rates for Injuries & Poisonings by Race/Ethnicity Southeast Region and Massachusetts: 2003-2005

Southeast Region Massachusetts

<table>
<thead>
<tr>
<th>Race/Ethnicity</th>
<th>Visits per 100,000</th>
</tr>
</thead>
<tbody>
<tr>
<td>White non-Hispanic</td>
<td>13,457*</td>
</tr>
<tr>
<td>Black non-Hispanic</td>
<td>14,187*</td>
</tr>
<tr>
<td>Hispanic</td>
<td>4,266*</td>
</tr>
<tr>
<td>Asian non-Hispanic</td>
<td>10,930*</td>
</tr>
<tr>
<td>State Overall</td>
<td>11,298*</td>
</tr>
</tbody>
</table>

(*) Statistically different from State (p ≤ 0.05)
Age-adjusted to the 2000 US standard population.
Source: Division of Health Care Finance and Policy. Calendar Year 2003-2005. Emergency Department Visits
Injury Death Rates by Race/Ethnicity
Southeast Region and Massachusetts: 2003-2005

Southeast Region Massachusetts
White non-Hispanic Black non-Hispanic Hispanic Asian non-Hispanic

Suicide Rates by Race/Ethnicity
Southeast Region and Massachusetts: 2003-2005

Southeast Region Massachusetts
White non-Hispanic Black non-Hispanic Hispanic Asian non-Hispanic

(*) Statistically different from State (p ≤ 0.05)
Age-adjusted to the 2000 US standard population.
Source: MDPH, Bureau of Health Information, Statistics, Research, & Evaluation, Division of Research & Epidemiology

State Overall:
Southeast Region
Massachusetts
Hospital Discharge Rates for Self-Inflicted Injuries by Race/Ethnicity, Southeast Region and Massachusetts: 2003-2005

Southeast Region Massachusetts

Discharges per 100,000

White non-Hispanic Black non-Hispanic Hispanic Asian non-Hispanic

Southeast Region: Overall: 65
Massachusetts: Overall: 77

(*) Statistically different from State (p ≤ 0.05)

Crude rates
Source: Division of Health Care Finance and Policy. Calendar Year 2003-2005. Inpatient Hospital Discharge Database

Hospital Discharge Rates for Motor Vehicle-Related Injuries by Race/Ethnicity, Southeast Region and Massachusetts: 2003-2005

Southeast Region Massachusetts

Discharges per 100,000

White non-Hispanic Black non-Hispanic Hispanic Asian non-Hispanic

Southeast Region: Overall: 77
Massachusetts: Overall: 81

(*) Statistically different from State (p ≤ 0.05)

Age-adjusted to the 2000 US standard population.
Source: Division of Health Care Finance and Policy. Calendar Year 2003-2005. Inpatient Hospital Discharge Database
Motor Vehicle-Related Death Rates by Race/Ethnicity, Southeast Region and Massachusetts: 2003-2005

Southeast Region Massachusetts

Deaths per 100,000

White non-Hispanic Black non-Hispanic Hispanic Asian non-Hispanic

Southeast Region

Massachusetts

(*) Statistically different from State (p ≤ .05)

Age-adjusted to the 2000 US standard population.

Source: MDPH, Bureau of Health Information, Statistics, Research, & Evaluation, Division of Research & Epidemiology

Hospital Discharge Rates for Traumatic Brain Injury by Race/Ethnicity, Southeast Region and Massachusetts: 2003-2005

Southeast Region Massachusetts

Visits per 100,000

White non-Hispanic Black non-Hispanic Hispanic Asian non-Hispanic

Southeast Region

Massachusetts

(*) Statistically different from State (p ≤ .05)

Age-adjusted to the 2000 US standard population.

Source: Division of Health Care Finance and Policy. Calendar Year 2003-2005. Inpatient Hospital Discharge Database
Emergency Department Visit Rates for Traumatic Brain Injury by Race/Ethnicity
Southeast Region and Massachusetts: 2003-2005

Southeast Region
- White non-Hispanic: 751*
- Black non-Hispanic: 699*
- Hispanic: 191*
- Asian non-Hispanic: 261*

Massachusetts
- White non-Hispanic: 663*
- Black non-Hispanic: 595*
- Hispanic: 588*
- Asian non-Hispanic: 215*

State Overall: 604

Visits per 100,000

(*) Statistically different from State (p ≤ 0.05)
Age-adjusted to the 2000 US standard population.
Source: Division of Health Care Finance and Policy. Calendar Year 2003-2005. Emergency Department Visits

Hospital Discharge Rates for Fall-Related Injuries by Race/Ethnicity
Southeast Region and Massachusetts: 2003-2005

Southeast Region
- White non-Hispanic: 370
- Black non-Hispanic: 261*
- Hispanic: 208*
- Asian non-Hispanic: 69*

Massachusetts
- White non-Hispanic: 375
- Black non-Hispanic: 234*
- Hispanic: 216*
- Asian non-Hispanic: 144*

State Overall: 374

Discharges per 100,000

(*) Statistically different from State (p ≤ 0.05)
Age-adjusted to the 2000 US standard population.
Source: Division of Health Care Finance and Policy. Calendar Year 2003-2005. Inpatient Hospital Discharge Database
Emergency Department Visit Rates for Fall-Related Injuries by Race/Ethnicity
Southeast Region and Massachusetts: 2003-2005

- White non-Hispanic
- Black non-Hispanic
- Hispanic
- Asian non-Hispanic

Southeast Region Massachusetts

Visits per 100,000

<table>
<thead>
<tr>
<th>White non-Hispanic</th>
<th>Black non-Hispanic</th>
<th>Hispanic</th>
<th>Asian non-Hispanic</th>
</tr>
</thead>
<tbody>
<tr>
<td>3,169*</td>
<td>2,809</td>
<td>2,833</td>
<td>2,783*</td>
</tr>
<tr>
<td>896*</td>
<td></td>
<td>0</td>
<td>784*</td>
</tr>
</tbody>
</table>

State Overall: 2,750

Source: Division of Health Care Finance and Policy. Calendar Year 2003-2005. Emergency Department Visits

(*) Statistically different from State (p ≤ .05)
Age-adjusted to the 2000 US standard population.

Emergency Department Visit Rates for Fall-Related Injuries by Race/Ethnicity
Cape & Islands and Massachusetts: 2003-2005

- White non-Hispanic
- Black non-Hispanic
- Hispanic
- Asian non-Hispanic

Cape & Islands Massachusetts

Visits per 100,000

<table>
<thead>
<tr>
<th>White non-Hispanic</th>
<th>Black non-Hispanic</th>
<th>Hispanic</th>
<th>Asian non-Hispanic</th>
</tr>
</thead>
<tbody>
<tr>
<td>3,300*</td>
<td>1,870*</td>
<td>878*</td>
<td>784*</td>
</tr>
<tr>
<td>4,265*</td>
<td></td>
<td>0</td>
<td></td>
</tr>
</tbody>
</table>

State Overall: 2,750

Source: Division of Health Care Finance and Policy. Calendar Year 2003-2005. Emergency Department Visits

(*) Statistically different from State (p ≤ .05)
Age-adjusted to the 2000 US standard population.
Fall-Related Injury Death Rates by Race/Ethnicity
Southeast Region and Massachusetts: 2003-2005

Southeast Region

<table>
<thead>
<tr>
<th>Race/Ethnicity</th>
<th>Deaths per 100,000</th>
</tr>
</thead>
<tbody>
<tr>
<td>White non-Hispanic</td>
<td>4</td>
</tr>
<tr>
<td>Black non-Hispanic</td>
<td>NA</td>
</tr>
<tr>
<td>Hispanic</td>
<td>NA</td>
</tr>
<tr>
<td>Asian non-Hispanic</td>
<td>NA</td>
</tr>
</tbody>
</table>

Massachusetts

<table>
<thead>
<tr>
<th>Race/Ethnicity</th>
<th>Deaths per 100,000</th>
</tr>
</thead>
<tbody>
<tr>
<td>White non-Hispanic</td>
<td>4</td>
</tr>
<tr>
<td>Black non-Hispanic</td>
<td>3</td>
</tr>
<tr>
<td>Hispanic</td>
<td>2</td>
</tr>
<tr>
<td>Asian non-Hispanic</td>
<td>3</td>
</tr>
</tbody>
</table>

State Overall: 4

(*) Statistically different from State (p ≤ .05)
Age-adjusted to the 2000 US standard population.
Source: MDPH, Bureau of Health Information, Statistics, Research, & Evaluation, Division of Research & Epidemiology

Homicide Rates by Race/Ethnicity
Southeast Region and Massachusetts: 2003-2005

Southeast Region

<table>
<thead>
<tr>
<th>Race/Ethnicity</th>
<th>Deaths per 100,000</th>
</tr>
</thead>
<tbody>
<tr>
<td>White non-Hispanic</td>
<td>14</td>
</tr>
<tr>
<td>Black non-Hispanic</td>
<td>9</td>
</tr>
<tr>
<td>Hispanic</td>
<td>1</td>
</tr>
<tr>
<td>Asian non-Hispanic</td>
<td>NA</td>
</tr>
</tbody>
</table>

Massachusetts

<table>
<thead>
<tr>
<th>Race/Ethnicity</th>
<th>Deaths per 100,000</th>
</tr>
</thead>
<tbody>
<tr>
<td>White non-Hispanic</td>
<td>15*</td>
</tr>
<tr>
<td>Black non-Hispanic</td>
<td>6*</td>
</tr>
<tr>
<td>Hispanic</td>
<td>1*</td>
</tr>
<tr>
<td>Asian non-Hispanic</td>
<td>2</td>
</tr>
</tbody>
</table>

State Overall: 3

(*) Statistically different from State (p ≤ .05)
Age-adjusted to the 2000 US standard population.
Source: MDPH, Bureau of Health Information, Statistics, Research, & Evaluation, Division of Research & Epidemiology
Emergency Department Visit Rates for Firearm Injuries by Race/Ethnicity
Southeast Region and Massachusetts: 2003-2005

<table>
<thead>
<tr>
<th></th>
<th>White non-Hispanic</th>
<th>Black non-Hispanic</th>
<th>Hispanic</th>
<th>Asian non-Hispanic</th>
</tr>
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<tbody>
<tr>
<td>Southeast Region</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4*</td>
<td>35*</td>
<td>26*</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Massachusetts</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2*</td>
<td>38*</td>
<td>19*</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Southeast Region Massachusetts

Visits per 100,000

(*) Statistically different from State (p ≤ 0.05)
Age-adjusted to the 2000 US standard population.
Source: Division of Health Care Finance and Policy. Calendar Year 2003-2005. Emergency Department Visits

Firearm Death Rates by Race/Ethnicity
Southeast Region and Massachusetts: 2003-2005

<table>
<thead>
<tr>
<th></th>
<th>White non-Hispanic</th>
<th>Black non-Hispanic</th>
<th>Hispanic</th>
<th>Asian non-Hispanic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Southeast Region</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>13*</td>
<td>5</td>
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<tr>
<td>Massachusetts</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1*</td>
<td>13*</td>
<td>4</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Southeast Region Massachusetts

Deaths per 100,000

(*) Statistically different from State (p ≤ 0.05)
Age-adjusted to the 2000 US standard population.
Source: MDPH, Bureau of Health Information, Statistics, Research, & Evaluation, Division of Research & Epidemiology
Hospital Discharge Rates for Assaults by Race/Ethnicity
Southeast Region and Massachusetts: 2003-2005

Southeast Region

- White non-Hispanic: 15*
- Black non-Hispanic: 86*
- Hispanic: 52
- Asian non-Hispanic: NA

Massachusetts

- White non-Hispanic: 16*
- Black non-Hispanic: 118*
- Hispanic: 69*
- Asian non-Hispanic: 12*

State Overall: 27.5

(*) Statistically different from State (p ≤ .05)
Crude rates
Source: Division of Health Care Finance and Policy. Calendar Year 2003-2005. Inpatient Hospital Discharge Database
HIV/AIDS
HIV/AIDS Death Rates by Race/Ethnicity
Southeast Region and Massachusetts: 2003-2005

Southeast Region

Deaths per 100,000

White non-Hispanic
Black non-Hispanic
Hispanic
Asian non-Hispanic

State Overall: 3

Southeast Region

Massachusetts

(*) Statistically different from State (p ≤ 0.05)
Age-adjusted to the 2000 US standard population.
Source: MDPH, Bureau of Health Information, Statistics, Research, & Evaluation, Division of Research & Epidemiology
ASTHMA
Emergency Department Visits Rates for Asthma by Race/Ethnicity Southeast Region and Massachusetts: 2005

(*) Statistically different from State (p ≤ .05)
Age-adjusted to the 2000 US standard population.
Source: Division of Health Care Finance and Policy. Calendar Year 2005. Emergency Department Visits

Asthma Emergency Visit Rates by Race/Ethnicity, Children Ages 0-14 Southeast Region and Massachusetts: 2005

(*) Statistically different from State (p ≤ .05)
Source: Division of Health Care Finance and Policy. Calendar Year 2005. Emergency Department Visits
PREMATURE MORTALITY
Premature Mortality Rate (PMR)

• **Definition**
  - deaths before age 75

• **Rationale**
  - two-thirds of deaths to persons ages 75+
  - vast majority of deaths to persons age 75+ are due to chronic conditions associated with aging
  - focusing on deaths to persons less than 75 years may be more preventable

• **Summary health statistic**
  - excellent measure to reflect the health status of a population
  - used as a health status indicator that can be used to focus prevention initiatives and target programs

---

1 Rates are per 100,000 population. Age-adjusted to the 2000 US standard population under 75 years of age.
Source: MDPH, Bureau of Health Information, Statistics, Research, & Evaluation, Division of Research & Epidemiology

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Premature Mortality Rate by Race/Ethnicity
Southeast Region and Massachusetts: 2003-2005

<table>
<thead>
<tr>
<th></th>
<th>Southeast Region</th>
<th>Massachusetts</th>
</tr>
</thead>
<tbody>
<tr>
<td>White non-Hispanic</td>
<td>339</td>
<td>321</td>
</tr>
<tr>
<td>Black non-Hispanic</td>
<td>521*</td>
<td>487*</td>
</tr>
<tr>
<td>Hispanic</td>
<td>302</td>
<td>298*</td>
</tr>
<tr>
<td>Asian non-Hispanic</td>
<td>224*</td>
<td>154*</td>
</tr>
</tbody>
</table>

State Overall: 325 deaths

(*) Statistically different from State (p ≤ 0.05)
Age-adjusted to the 2000 US standard population under 75 years of age.
Source: MDPH, Bureau of Health Information, Statistics, Research, & Evaluation, Division of Research & Epidemiology

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280
VI. BOSTON REGION
SOCIODEMOGRAPHIC INDICATORS AND HEALTH CARE ACCESS AND STATUS
Population in Cities of Boston Region: 2005

Largest:

- BOSTON 558,435
- CHELSEA 34,128
- BROOKLINE 56,422

Smallest:

- WINTHROP 17,067

Source: MDPH, Bureau of Health Information, Statistics, Research, & Evaluation, Division of Research & Epidemiology

Race and Ethnic Breakdown of Population
Boston Region and Massachusetts: 2005

**Boston Region**

- White* 54.1%
- Black* 20.4%
- Hispanic 16.6%
- Asian* 8.6%
- Amer. Indian* 0.3%

**Massachusetts**

- White* 81.0%
- Black* 6.0%
- Hispanic 7.9%
- Asian* 4.9%
- Amer. Indian* 0.2%

* Non-Hispanics

Total Population: 711,603
Total Population: 6,436,940

Source: MDPH, Bureau of Health Information, Statistics, Research, & Evaluation, Division of Research & Epidemiology
### Race and Ethnic Breakdown of Population

**Cities in Boston Region and Massachusetts: 2005**

<table>
<thead>
<tr>
<th>Racial Hispanic Group</th>
<th>City of Boston</th>
<th>Brookline</th>
<th>Chelsea</th>
<th>Revere</th>
<th>Winthrop</th>
<th>Boston Region</th>
<th>MA Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>White*</td>
<td>49.9%</td>
<td>73%</td>
<td>35.9%</td>
<td>81.6%</td>
<td>93.9%</td>
<td>54.1%</td>
<td>81%</td>
</tr>
<tr>
<td>Black*</td>
<td>25%</td>
<td>4.2%</td>
<td>5.6%</td>
<td>2.5%</td>
<td>1.5%</td>
<td>20.4%</td>
<td>6%</td>
</tr>
<tr>
<td>Hispanic*</td>
<td>16.4%</td>
<td>4.8%</td>
<td>53.3%</td>
<td>10.5%</td>
<td>3.1%</td>
<td>16.6%</td>
<td>7.9%</td>
</tr>
<tr>
<td>Asian*</td>
<td>8.4%</td>
<td>17.9%</td>
<td>5%</td>
<td>5.2%</td>
<td>1.3%</td>
<td>8.6%</td>
<td>4.9%</td>
</tr>
<tr>
<td>American Indian*</td>
<td>0.3%</td>
<td>0.1%</td>
<td>0.3%</td>
<td>0.2%</td>
<td>0.2%</td>
<td>0.3%</td>
<td>0.2%</td>
</tr>
</tbody>
</table>

* Non-Hispanics

Source: MDPH, Bureau of Health Information, Statistics, Research, & Evaluation, Division of Research & Epidemiology

### Population by Age Group

**Cities in Boston Region and Massachusetts: 2005**

<table>
<thead>
<tr>
<th>Ages</th>
<th>City of Boston</th>
<th>Brookline</th>
<th>Chelsea</th>
<th>Revere</th>
<th>Winthrop</th>
<th>Boston Region</th>
<th>MA Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-19 years</td>
<td>24%</td>
<td>19%</td>
<td>30%</td>
<td>23%</td>
<td>21%</td>
<td>23%</td>
<td>26%</td>
</tr>
<tr>
<td>20-24 years</td>
<td>11%</td>
<td>10%</td>
<td>7%</td>
<td>5%</td>
<td>5%</td>
<td>10%</td>
<td>7%</td>
</tr>
<tr>
<td>25-44 years</td>
<td>35%</td>
<td>34%</td>
<td>35%</td>
<td>33%</td>
<td>34%</td>
<td>35%</td>
<td>29%</td>
</tr>
<tr>
<td>45-64 years</td>
<td>20%</td>
<td>25%</td>
<td>18%</td>
<td>23%</td>
<td>25%</td>
<td>20%</td>
<td>25%</td>
</tr>
<tr>
<td>65+ years</td>
<td>11%</td>
<td>12%</td>
<td>11%</td>
<td>16%</td>
<td>16%</td>
<td>11%</td>
<td>13%</td>
</tr>
</tbody>
</table>

Source: MDPH, Bureau of Health Information, Statistics, Research, & Evaluation, Division of Research & Epidemiology
### Language Spoken at Home, Cities in Boston Region and Massachusetts: 2000

<table>
<thead>
<tr>
<th>Language Spoken at Home</th>
<th>City of Boston</th>
<th>Brookline</th>
<th>Chelsea</th>
<th>Revere</th>
<th>Winthrop</th>
<th>Boston Region</th>
<th>MA Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Only English</td>
<td>66.6%</td>
<td>71%</td>
<td>41.6%</td>
<td>71%</td>
<td>87.1%</td>
<td>66.6%</td>
<td>81.3%</td>
</tr>
<tr>
<td>Spanish or Spanish Creole</td>
<td>13.6%</td>
<td>3.6%</td>
<td>43.6%</td>
<td>9%</td>
<td>3.6%</td>
<td>13.7%</td>
<td>6.2%</td>
</tr>
<tr>
<td>Chinese</td>
<td>3.2%</td>
<td>5.7%</td>
<td>0.6%</td>
<td>0.6%</td>
<td>0.1%</td>
<td>3%</td>
<td>1.2%</td>
</tr>
<tr>
<td>French Creole</td>
<td>3.5%</td>
<td>0.4%</td>
<td>0.8%</td>
<td>0.3%</td>
<td>0.1%</td>
<td>2.8%</td>
<td>0.7%</td>
</tr>
<tr>
<td>Portuguese or Port. Creole</td>
<td>2.3%</td>
<td>0.7%</td>
<td>2.1%</td>
<td>2.4%</td>
<td>1.4%</td>
<td>2.1%</td>
<td>2.7%</td>
</tr>
<tr>
<td>Vietnamese</td>
<td>1.8%</td>
<td>0.1%</td>
<td>1.9%</td>
<td>1%</td>
<td>0%</td>
<td>1.6%</td>
<td>0.5%</td>
</tr>
<tr>
<td>Italian</td>
<td>1.2%</td>
<td>0.4%</td>
<td>1%</td>
<td>6.8%</td>
<td>3%</td>
<td>1.5%</td>
<td>1%</td>
</tr>
<tr>
<td>French (incl. Patois, Cajun)</td>
<td>1.4%</td>
<td>1.4%</td>
<td>0.9%</td>
<td>0.6%</td>
<td>1%</td>
<td>1.3%</td>
<td>1.4%</td>
</tr>
<tr>
<td>Russian</td>
<td>1.1%</td>
<td>4.4%</td>
<td>0.1%</td>
<td>0.5%</td>
<td>0%</td>
<td>1.2%</td>
<td>0.6%</td>
</tr>
<tr>
<td>Mon Khmer, Cambodian</td>
<td>0.1%</td>
<td>0.3%</td>
<td>0.9%</td>
<td>2.5%</td>
<td>0.1%</td>
<td>0.3%</td>
<td>0.4%</td>
</tr>
<tr>
<td>Hebrew</td>
<td>0.1%</td>
<td>2.1%</td>
<td>0.1%</td>
<td>0%</td>
<td>0.2%</td>
<td>0.3%</td>
<td>0.1%</td>
</tr>
<tr>
<td>Serbo Croatian</td>
<td>0.1%</td>
<td>0.1%</td>
<td>2%</td>
<td>0.9%</td>
<td>0%</td>
<td>0.2%</td>
<td>0.1%</td>
</tr>
</tbody>
</table>

Source: MDPH, Bureau of Health Information, Statistics, Research, & Evaluation, Division of Research & Epidemiology

### Socio-Demographic Indicators, Cities in Boston Region and Massachusetts: 2000

<table>
<thead>
<tr>
<th>Socio-Demographic Indicators</th>
<th>City of Boston</th>
<th>Brookline</th>
<th>Chelsea</th>
<th>Revere</th>
<th>Winthrop</th>
<th>Boston Region</th>
<th>MA Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Per Capita Income</td>
<td>$23,353</td>
<td>$44,327</td>
<td>$14,628</td>
<td>$19,698</td>
<td>$27,374</td>
<td>$24,413</td>
<td>$25,952</td>
</tr>
<tr>
<td>Those living below 100% poverty</td>
<td>19.5%</td>
<td>9.3%</td>
<td>23.3%</td>
<td>14.6%</td>
<td>5.5%</td>
<td>18.2%</td>
<td>9.3%</td>
</tr>
<tr>
<td>Less than a High School Education</td>
<td>21.1%</td>
<td>3.7%</td>
<td>40.5%</td>
<td>23.3%</td>
<td>10%</td>
<td>20.3%</td>
<td>15.2%</td>
</tr>
<tr>
<td>Speak language other than English at home</td>
<td>33.4%</td>
<td>29.0%</td>
<td>58.4%</td>
<td>29.1%</td>
<td>12.9%</td>
<td>21.9%</td>
<td>18.7%</td>
</tr>
<tr>
<td>Foreign born</td>
<td>25.8%</td>
<td>26.7%</td>
<td>36.1%</td>
<td>21%</td>
<td>36.1%</td>
<td>25.6%</td>
<td>12%</td>
</tr>
<tr>
<td>Unemployed</td>
<td>5.5%</td>
<td>3%</td>
<td>7.5%</td>
<td>6.3%</td>
<td>5.1%</td>
<td>5.4%</td>
<td>5.1%</td>
</tr>
</tbody>
</table>

Source: MDPH, Bureau of Health Information, Statistics, Research, & Evaluation, Division of Research & Epidemiology
Adults who Have No Health Insurance by Race and Ethnicity
Boston Region and Massachusetts: 2005

- **White non-Hispanic**
- **Black non-Hispanic**
- **Hispanic**
- **Asian**

<table>
<thead>
<tr>
<th>Race/Ethnicity</th>
<th>Boston Region</th>
<th>Massachusetts</th>
</tr>
</thead>
<tbody>
<tr>
<td>White</td>
<td>10.6</td>
<td>7.7</td>
</tr>
<tr>
<td>Black</td>
<td>19.0*</td>
<td>NA</td>
</tr>
<tr>
<td>Hispanic</td>
<td>11.5</td>
<td>7.0</td>
</tr>
<tr>
<td>Asian</td>
<td>23.8*</td>
<td>6.1</td>
</tr>
</tbody>
</table>

State Overall: 8.9

(*) Statistically different from State (p ≤ 0.05)

Source: MDPH, Bureau of Health Information, Statistics, Research, and Evaluation, Massachusetts Behavioral Risk Factor Surveillance System (BRFSS), Health Survey Program

---

Adults who Reported Fair or Poor Health by Race and Ethnicity
Boston Region and Massachusetts: 2005

<table>
<thead>
<tr>
<th>Race/Ethnicity</th>
<th>Boston Region</th>
<th>Massachusetts</th>
</tr>
</thead>
<tbody>
<tr>
<td>White</td>
<td>13.4</td>
<td>12.3</td>
</tr>
<tr>
<td>Black</td>
<td>16.9</td>
<td>16.5</td>
</tr>
<tr>
<td>Hispanic</td>
<td>20.6</td>
<td>23.5*</td>
</tr>
</tbody>
</table>

State Overall: 13.2

(*) Statistically different from State (p ≤ 0.05)

Source: MDPH, Bureau of Health Information, Statistics, Research, and Evaluation, Health Survey Program

NA= Calculations based on less than 5 events are excluded
BIRTH OUTCOMES
Infant Mortality Rates by Race/Ethnicity
Boston Region and Massachusetts: 2003-2005

Deaths per 1000 live births

Boston Region

<table>
<thead>
<tr>
<th>Race/Ethnicity</th>
<th>Deaths</th>
</tr>
</thead>
<tbody>
<tr>
<td>White non-Hispanic</td>
<td>3.2*</td>
</tr>
<tr>
<td>Black non-Hispanic</td>
<td>6.2</td>
</tr>
<tr>
<td>Hispanic</td>
<td>2.1*</td>
</tr>
<tr>
<td>Asian non-Hispanic</td>
<td>3.0*</td>
</tr>
</tbody>
</table>

Massachusetts

<table>
<thead>
<tr>
<th>Race/Ethnicity</th>
<th>Deaths</th>
</tr>
</thead>
<tbody>
<tr>
<td>White non-Hispanic</td>
<td>11.6*</td>
</tr>
<tr>
<td>Black non-Hispanic</td>
<td>4.1*</td>
</tr>
<tr>
<td>Hispanic</td>
<td>7.0*</td>
</tr>
<tr>
<td>Asian non-Hispanic</td>
<td>11.2*</td>
</tr>
</tbody>
</table>

State Overall: 4.9

(*) Statistically different from State (p ≤ .05)

Source: MDPH, Bureau of Health Information, Statistics, Research, & Evaluation, Division of Research & Epidemiology

Teen Birth Rates by Race and Ethnicity
Boston Region and Massachusetts: 2005

Births per 1,000 women ages 15-19

Boston Region

<table>
<thead>
<tr>
<th>Race/Ethnicity</th>
<th>Births</th>
</tr>
</thead>
<tbody>
<tr>
<td>White non-Hispanic</td>
<td>8*</td>
</tr>
<tr>
<td>Black non-Hispanic</td>
<td>42*</td>
</tr>
<tr>
<td>Hispanic</td>
<td>10*</td>
</tr>
<tr>
<td>Asian non-Hispanic</td>
<td>15*</td>
</tr>
</tbody>
</table>

Massachusetts

<table>
<thead>
<tr>
<th>Race/Ethnicity</th>
<th>Births</th>
</tr>
</thead>
<tbody>
<tr>
<td>White non-Hispanic</td>
<td>58*</td>
</tr>
<tr>
<td>Black non-Hispanic</td>
<td>36*</td>
</tr>
<tr>
<td>Hispanic</td>
<td>13*</td>
</tr>
<tr>
<td>Asian non-Hispanic</td>
<td>73*</td>
</tr>
</tbody>
</table>

State Overall: 22

(*) Statistically different from State (p ≤ .05)

Teen Birth Rate: the number of births to women ages 15-19 per 1,000 women ages 15-19.

Source: MDPH, Bureau of Health Information, Statistics, Research, & Evaluation, Division of Research & Epidemiology
Teen Birth Rate by Race and Ethnicity
Cities in Boston Region & Massachusetts: 2003-2005

Teen Birth Rate: the number of births to women ages 15-19 per 1,000 women ages 15-19.

Source: MDPH, Bureau of Health Information, Statistics, Research, & Evaluation, Division of Research & Epidemiology

(*) Statistically different from State (p ≤ .05)
CHRONIC DISEASE OUTCOMES AND OVERWEIGHT/OBESITY
Overweight by Race and Ethnicity
Boston Region and Massachusetts: 2005

<table>
<thead>
<tr>
<th>Race/Ethnicity</th>
<th>Boston Region</th>
<th>Massachusetts</th>
</tr>
</thead>
<tbody>
<tr>
<td>White non-Hispanic</td>
<td>50</td>
<td>56</td>
</tr>
<tr>
<td>Black non-Hispanic</td>
<td>NA</td>
<td>68*</td>
</tr>
<tr>
<td>Hispanic</td>
<td>68</td>
<td>63</td>
</tr>
<tr>
<td>Asian non-Hispanic</td>
<td>64</td>
<td>6</td>
</tr>
</tbody>
</table>

State Overall: 56

(*) Statistically different from State (p ≤ 0.05)

Source: MDPH, Bureau of Health Information, Statistics, Research, and Evaluation, Massachusetts Behavioral Risk Factor Surveillance System (BRFSS), Health Survey Program

Hospital Discharge Rate for Hypertension by Race/Ethnicity
Boston Region & Massachusetts: 2003-2005

<table>
<thead>
<tr>
<th>Race/Ethnicity</th>
<th>Boston Region</th>
<th>Massachusetts</th>
</tr>
</thead>
<tbody>
<tr>
<td>White non-Hispanic</td>
<td>38</td>
<td>28*</td>
</tr>
<tr>
<td>Black non-Hispanic</td>
<td>207*</td>
<td>176*</td>
</tr>
<tr>
<td>Hispanic</td>
<td>114*</td>
<td>89*</td>
</tr>
<tr>
<td>Asian non-Hispanic</td>
<td>45</td>
<td>33</td>
</tr>
</tbody>
</table>

State Overall: 39

(*) Statistically different from State (p ≤ 0.05)

Age-adjusted to the 2000 US standard population.

Source: Division of Health Care Finance and Policy. Calendar Year 2003-2005. Inpatient Hospital Discharge Database
Heart Disease Death Rate by Race/Ethnicity
Boston Region and Massachusetts: 2003-2005

(*) Statistically different from State (p ≤ .05)
Age-adjusted to the 2000 US standard population.
Source: MDPH, Bureau of Health Information, Statistics, Research, and Evaluation, Division of Research & Epidemiology

Diabetes Hospital Discharge Rate by Race/Ethnicity
Boston Region Massachusetts: 2003-2005

(*) Statistically different from State (p ≤ .05)
Age-adjusted to the 2000 US standard population.
Source: Division of Health Care Finance and Policy. Calendar Year 2003-2005. Inpatient Hospital Discharge Database
Diabetes Death Rate by Race/Ethnicity
Boston Region and Massachusetts: 2003-2005

<table>
<thead>
<tr>
<th>Race/Ethnicity</th>
<th>Boston Region</th>
<th>Massachusetts</th>
</tr>
</thead>
<tbody>
<tr>
<td>White non-Hispanic</td>
<td>20</td>
<td>17</td>
</tr>
<tr>
<td>Black non-Hispanic</td>
<td>37*</td>
<td>38*</td>
</tr>
<tr>
<td>Hispanic</td>
<td>15</td>
<td>14</td>
</tr>
<tr>
<td>Asian non-Hispanic</td>
<td>12</td>
<td>14</td>
</tr>
</tbody>
</table>

(*) Statistically different from State (p ≤ 0.05)

Age-adjusted to the 2000 US standard population.

Source: MDPH, Bureau of Health Information, Statistics, Research, and Evaluation, Division of Research & Epidemiology
CANCER
Women who had a Clinical Breast Exam in the Past Two Years by Race and Ethnicity
Boston Region and Massachusetts: 2004

[Graph showing percentages by race/ethnicity for Boston Region and Massachusetts.]

Source: MDPH, Health Information, Statistics, Research, and Evaluation Bureau, Health Survey Program

Female Breast Cancer Mortality Rates by Race and Ethnicity, Boston Region & Massachusetts: 2001-2005

[Graph showing deaths per 100,000 population by race/ethnicity for Boston Region and Massachusetts.]

(*) Statistically different from State (p ≤ 0.05)

Source: MDPH, Bureau of Health Information, Statistics, Research, and Evaluation, Division of Research & Epidemiology
Current Smoker by Race and Ethnicity
Boston Region and Massachusetts: 2005

![Bar graph showing current smokers by race and ethnicity for Boston Region and Massachusetts in 2005.]

- White non-Hispanic: Boston Region: 22%, Massachusetts: 18%
- Black non-Hispanic: Boston Region: 17%, Massachusetts: 16%
- Hispanic: Boston Region: 18%, Massachusetts: 18%

(*) Statistically different from State (p ≤ 0.05)

Source: MDPH, Bureau of Health Information, Statistics, Research, and Evaluation, Health Survey Program

Smoking During Pregnancy by Race and Ethnicity
Boston Region and Massachusetts: 2005

![Bar graph showing smoking during pregnancy by race and ethnicity for Boston Region and Massachusetts in 2005.]

- White non-Hispanic:
  - Boston Region: 5.5%
  - Massachusetts: 6.1%
- Black non-Hispanic:
  - Boston Region: 4.6%
  - Massachusetts: 5.2%
- Hispanic:
  - Boston Region: 2.0%
  - Massachusetts: 0.9%
- Asian non-Hispanic:
  - Boston Region: 1.4%
  - Massachusetts: 1.4%

(*) Statistically different from State (p ≤ 0.05)

Source: MDPH, Bureau of Health Information, Statistics, Research, and Evaluation, Division of Research & Epidemiology
Lung Cancer Mortality Rates by Race and Ethnicity, Boston Region & Massachusetts: 2001-2005

State Overall: 54

(*) Statistically different from State (p ≤ .05)
Age-adjusted to the 2000 US standard population.
Source: MDPH, Bureau of Health Information, Statistics, Research, and Evaluation, Division of Research & Epidemiology

(*) Statistically different from State (p ≤ .05)
Age-adjusted to the 2000 US standard population.
Source: MDPH, Bureau of Health Information, Statistics, Research, and Evaluation, Division of Research & Epidemiology
SUBSTANCE ABUSE
Opioid-Related Emergency Visit Rates by Race/Ethnicity
Boston Region and Massachusetts: 2003-2005

(*) Statistically different from State (p ≤ 0.05)
Age-adjusted to the 2000 US standard population.
Source: Division of Health Care Finance and Policy. Calendar Year 2003-2005. Emergency Department Visits

Opioid-Related Fatal Overdoses by Race/Ethnicity
Boston Region and Massachusetts: 2003-2005

(*) Statistically different from State (p ≤ 0.05)
Age-adjusted to the 2000 US standard population.
Source: MDPH, Bureau of Health Information, Statistics, Research, and Evaluation, Division of Research & Epidemiology
INJURY AND VIOLENCE
Injury-related Hospital Discharge Rates by Race/Ethnicity, Boston Region and Massachusetts: 2003-2005

<table>
<thead>
<tr>
<th>Race/Ethnicity</th>
<th>Boston Region</th>
<th>Massachusetts</th>
</tr>
</thead>
<tbody>
<tr>
<td>White non-Hispanic</td>
<td>934 *</td>
<td>812 *</td>
</tr>
<tr>
<td>Black non-Hispanic</td>
<td>968 *</td>
<td>831 *</td>
</tr>
<tr>
<td>Hispanic</td>
<td>719 *</td>
<td>704 *</td>
</tr>
<tr>
<td>Asian non-Hispanic</td>
<td>381 *</td>
<td>301 *</td>
</tr>
</tbody>
</table>

(*) Statistically different from State (p ≤ .05)
Age-adjusted to the 2000 US standard population.
Source: Division of Health Care Finance and Policy. Calendar Year 2003-2005. Inpatient Hospital Discharge Database

---

Emergency Department Visit Rates for Injuries & Poisonings by Race/Ethnicity, Boston Region and Massachusetts: 2003-2005

<table>
<thead>
<tr>
<th>Race/Ethnicity</th>
<th>Boston Region</th>
<th>Massachusetts</th>
</tr>
</thead>
<tbody>
<tr>
<td>White non-Hispanic</td>
<td>14,733*</td>
<td>14,158*</td>
</tr>
<tr>
<td>Black non-Hispanic</td>
<td>9,310*</td>
<td>11,930*</td>
</tr>
<tr>
<td>Hispanic</td>
<td>3,439*</td>
<td>10,930*</td>
</tr>
<tr>
<td>Asian non-Hispanic</td>
<td>8,451*</td>
<td>3,277*</td>
</tr>
</tbody>
</table>

(*) Statistically different from State (p ≤ .05)
Age-adjusted to the 2000 US standard population.
Source: Division of Health Care Finance and Policy. Calendar Year 2003-2005. Emergency Department Visits
**Hospital Discharge Rates for Assaults by Race/Ethnicity, Boston Region and Massachusetts: 2003-2005**

![Bar chart showing discharge rates per 100,000 for White non-Hispanic, Black non-Hispanic, Hispanic, and Asian non-Hispanic in Boston Region and Massachusetts.](chart)

*Statistically different from State (p ≤ 0.05)*

Crude rates.

Source: Division of Health Care Finance and Policy. Calendar Year 2003-2005. Inpatient Hospital Discharge Database

**Homicide Rates by Race/Ethnicity Boston Region and Massachusetts: 2003-2005**

![Bar chart showing deaths per 100,000 for White non-Hispanic, Black non-Hispanic, Hispanic, and Asian non-Hispanic in Boston Region and Massachusetts.](chart)

*Statistically different from State (p ≤ 0.05)*

Age-adjusted to the 2000 US standard population.

Source: MDPH, Bureau of Health Information, Statistics, Research, and Evaluation, Division of Research & Epidemiology
Hospital Discharge Rates for Self-inflicted Injuries by Race/Ethnicity, Boston Region and Massachusetts: 2003-2005

- White non-Hispanic
- Black non-Hispanic
- Hispanic
- Asian non-Hispanic

(*) Statistically different from State (p ≤ 0.05)
Age-adjusted to the 2000 US standard population.
Source: Division of Health Care Finance and Policy. Calendar Year 2003-2005. Inpatient Hospital Discharge Database

Suicide Rates by Race/Ethnicity Boston Region and Massachusetts: 2003-2005

- White non-Hispanic
- Black non-Hispanic
- Hispanic
- Asian non-Hispanic

(*) Statistically different from State (p ≤ 0.05)
Age-adjusted to the 2000 US standard population.
Source: MDPH, Bureau of Health Information, Statistics, Research, and Evaluation, Division of Research & Epidemiology
Hospital Discharge Rates for Motor Vehicle-Related Injuries by Race/Ethnicity
Boston Region and Massachusetts: 2003-2005

*Statistically different from State (p ≤ 0.05)
Age-adjusted to the 2000 US standard population.
Source: Division of Health Care Finance and Policy. Calendar Year 2003-2005. Inpatient Hospital Discharge Database

Motor Vehicle-Related Death Rates by Race/Ethnicity
Boston Region and Massachusetts: 2003-2005

*Statistically different from State (p ≤ 0.05)
Age-adjusted to the 2000 US standard population.
Source: MDPH, Bureau of Health Information, Statistics, Research, and Evaluation, Division of Research & Epidemiology
Emergency Department Visit Rates for Traumatic Brain Injury by Race/Ethnicity, Boston Region and Massachusetts: 2003-2005

<table>
<thead>
<tr>
<th>Race/Ethnicity</th>
<th>Boston Region</th>
<th>Massachusetts</th>
</tr>
</thead>
<tbody>
<tr>
<td>White non-Hispanic</td>
<td>558*</td>
<td>595*</td>
</tr>
<tr>
<td>Black non-Hispanic</td>
<td>742*</td>
<td>663*</td>
</tr>
<tr>
<td>Hispanic</td>
<td>572*</td>
<td>588*</td>
</tr>
<tr>
<td>Asian non-Hispanic</td>
<td>286*</td>
<td>215*</td>
</tr>
</tbody>
</table>

State Overall: 604

(*) Statistically different from State (p ≤ .05)
Age-adjusted to the 2000 US standard population.
Source: Division of Health Care Finance and Policy. Calendar Year 2003-2005. Emergency Department Visits

Hospital Discharge Rates for Traumatic Brain Injury by Race/Ethnicity, Boston Region and Massachusetts: 2003-2005

<table>
<thead>
<tr>
<th>Race/Ethnicity</th>
<th>Boston Region</th>
<th>Massachusetts</th>
</tr>
</thead>
<tbody>
<tr>
<td>White non-Hispanic</td>
<td>86</td>
<td>94*</td>
</tr>
<tr>
<td>Black non-Hispanic</td>
<td>90</td>
<td>85*</td>
</tr>
<tr>
<td>Hispanic</td>
<td>44*</td>
<td>76*</td>
</tr>
<tr>
<td>Asian non-Hispanic</td>
<td>90</td>
<td>39*</td>
</tr>
</tbody>
</table>

State Overall: 80

(*) Statistically different from State (p ≤ .05)
Age-adjusted to the 2000 US standard population.
Source: Division of Health Care Finance and Policy. Calendar Year 2003-2005. Inpatient Hospital Discharge Database
Emergency Department Visit Rates for Firearm Injuries by Race/Ethnicity
Boston Region and Massachusetts: 2003-2005

![Bar chart showing visit rates per 100,000 people for different races/ethnicities in Boston Region and Massachusetts.]

- **White non-Hispanic**
- **Black non-Hispanic**
- **Hispanic**
- **Asian non-Hispanic**

(*) Statistically different from State (p ≤ 0.05)
Age-adjusted to the 2000 US standard population.
Source: Division of Health Care Finance and Policy. Calendar Year 2003-2005. Emergency Department Visits

Firearm Death Rates by Race/Ethnicity
Boston Region and Massachusetts: 2003-2005

![Bar chart showing death rates per 100,000 people for different races/ethnicities in Boston Region and Massachusetts.]

- **White non-Hispanic**
- **Black non-Hispanic**
- **Hispanic**
- **Asian non-Hispanic**

(*) Statistically different from State (p ≤ 0.05)
Age-adjusted to the 2000 US standard population.
Source: MDPH, Bureau of Health Information, Statistics, Research, and Evaluation, Division of Research & Epidemiology
Hospital Discharge Rates for Fall-Related Injuries by Race/Ethnicity, Boston Region and Massachusetts: 2003-2005

Age-adjusted to the 2000 US standard population.
Source: Division of Health Care Finance and Policy. Calendar Year 2003-2005. Inpatient Hospital Discharge Database

(*) Statistically different from State (p ≤ 0.05)

Emergency Department Visit Rates for Fall-Related Injuries by Race/Ethnicity, Boston Region and Massachusetts: 2003-2005

Age-adjusted to the 2000 US standard population.
Source: Division of Health Care Finance and Policy. Calendar Year 2003-2005. Emergency Department Visits

(*) Statistically different from State (p ≤ 0.05)
Fall-Related Injury Death Rates by Race/Ethnicity
Boston Region and Massachusetts: 2003-2005

<table>
<thead>
<tr>
<th></th>
<th>White non-Hispanic</th>
<th>Black non-Hispanic</th>
<th>Hispanic</th>
<th>Asian non-Hispanic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boston Region</td>
<td>5</td>
<td>2 *</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Massachusetts</td>
<td>4</td>
<td>3</td>
<td>2</td>
<td>3</td>
</tr>
</tbody>
</table>

State Overall: 4

(*) Statistically different from State (p ≤ .05)
Age-adjusted to the 2000 US standard population.
Source: MDPH, Bureau of Health Information, Statistics, Research, and Evaluation, Division of Research & Epidemiology
HIV/AIDS
HIV/AIDS Death Rate by Race/Ethnicity
Boston Region and Massachusetts: 2003-2005

(©) Statistically different from State (p ≤ 0.05)
Age-adjusted to the 2000 US standard population.
Source: MDPH, Bureau of Health Information, Statistics, Research, and Evaluation, Division of Research & Epidemiology
ASTHMA
Asthma Emergency Department Visit Rates, Children Ages 0-14
Boston Region and Massachusetts: 2005

Visits per 100,000

Boston Region

Massachusetts

White non-Hispanic
Black non-Hispanic
Hispanic
Asian non-Hispanic

3,111*
1,799*
2,096*
1,573*

592*
623*
516*
356*

State Overall: 808

(*) Statistically different from State (p ≤ 0.05)

Source: Division of Health Care Finance and Policy. Calendar Year 2005. Emergency Department Visits
PREMATURE MORTALITY
Premature Mortality Rate (PMR)¹

- **Definition**
  - deaths before age 75

- **Rationale**
  - two-thirds of deaths to persons ages 75+
  - vast majority of deaths to persons age 75+ are due to chronic conditions associated with aging
  - focusing on deaths to persons less than 75 years may be more preventable

- **Summary health statistic**
  - excellent measure to reflect the health status of a population
  - used as a health status indicator that can be used to focus prevention initiatives and target programs

Age-adjusted to the 2000 US standard population under 75 years of age.
Source: MDPH, Bureau of Health Information, Statistics, Research, & Evaluation, Division of Research & Epidemiology

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Premature Mortality Rate by Race/Ethnicity
Boston Region and Massachusetts: 2003-2005

<table>
<thead>
<tr>
<th>Race/Ethnicity</th>
<th>Deaths per 100,000</th>
</tr>
</thead>
<tbody>
<tr>
<td>White non-Hispanic</td>
<td>383*</td>
</tr>
<tr>
<td>Black non-Hispanic</td>
<td>516*</td>
</tr>
<tr>
<td>Hispanic</td>
<td>257*</td>
</tr>
<tr>
<td>Asian non-Hispanic</td>
<td>180*</td>
</tr>
<tr>
<td>American Indian, Non-Hispanic</td>
<td>NA</td>
</tr>
<tr>
<td>Overall Massachusetts</td>
<td>487*</td>
</tr>
<tr>
<td>Massachusetts</td>
<td>321</td>
</tr>
<tr>
<td>State Overall</td>
<td>325</td>
</tr>
</tbody>
</table>

(*) Statistically different from State (p ≤ 0.05)
Age-adjusted to the 2000 US standard population under 75 years of age.
Source: MDPH, Bureau of Health Information, Statistics, Research, & Evaluation, Division of Research & Epidemiology

---

(*) Statistically different from State (p ≤ 0.05)
Age-adjusted to the 2000 US standard population under 75 years of age.
Source: MDPH, Bureau of Health Information, Statistics, Research, & Evaluation, Division of Research & Epidemiology
APPENDIX
GLOSSARY

Census Terminology
Note that AIAN is used in the demographics section. In this publication, the following will be used:
  AIAN = American Indian and Alaska Native
  “alone” = indicates the choice of the single-race
  “two or more races” = indicates that more than one race was marked
  “alone or in combination” = all persons who indicated the race

Crude Rate
An estimate of the proportion of a population that had the event during the year. The numerator is the number of persons who had an event during the year and the denominator is the size of the population. The crude rate in a population is calculated by the formula:

\[
\text{Crude rate} = \frac{\text{Number of events in a year}}{\text{Number of residents}} \times 100,000
\]

Age-Adjusted Rate
A summary rate designed to minimize the distortions created by differences in age distribution when comparing rates for populations with different age compositions. Age-adjusted rates are useful when comparing death rates from different populations or in the same population over time. For example, if one wished to compare the 1998 death rates between Barnstable County (Cape Cod) and Hampshire County, the age-adjusted formula would account for the fact that 24% of the Barnstable County residents were 65 years of age or older, whereas only 11% of the Hampshire County residents were in this age group.

Age-adjusted rates are calculated by weighting the age-specific rates for a given year by the age distribution of a standard population. The weighted age-specific rates are then added to produce the adjusted rate for all ages combined. (Please see example below).

The 2000 U.S. projected population is used as the standard population in this document for consistency with data published by the National Center for Health Statistics (NCHS). ONLY RATES USING THE SAME STANDARD POPULATION CAN BE COMPARED. All age-adjusted rates published in this report have been re-calculated using the 2000 U.S. standard population. These rates should NOT be
compared with age-adjusted rates previously published which used the 1940 U.S. standard population.

Example: Calculation of 1999 Age-adjusted Mortality Rate, Massachusetts: All Causes of Death

<table>
<thead>
<tr>
<th>Age group (in years)</th>
<th># of deaths (1999)</th>
<th>Population (1998)</th>
<th>1940 U.S. standard</th>
<th>2000 U.S. standard</th>
<th>Age-adjusted rate (using 1940 standard) = [((B/C)D)\times100,000]</th>
<th>Age-adjusted rate (using 2000 standard) = [((B/C)E)\times100,000]</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt; 1</td>
<td>418</td>
<td>79,860</td>
<td>0.015343</td>
<td>0.013818</td>
<td>8.0</td>
<td>7.2</td>
</tr>
<tr>
<td>1-4</td>
<td>65</td>
<td>320,000</td>
<td>0.064718</td>
<td>0.055317</td>
<td>1.3</td>
<td>1.1</td>
</tr>
<tr>
<td>5-14</td>
<td>100</td>
<td>806,670</td>
<td>0.170355</td>
<td>0.145565</td>
<td>2.1</td>
<td>1.8</td>
</tr>
<tr>
<td>15-24</td>
<td>407</td>
<td>883,830</td>
<td>0.181677</td>
<td>0.138646</td>
<td>8.4</td>
<td>6.4</td>
</tr>
<tr>
<td>25-34</td>
<td>701</td>
<td>1,005,337</td>
<td>0.162066</td>
<td>0.135573</td>
<td>11.3</td>
<td>9.5</td>
</tr>
<tr>
<td>35-44</td>
<td>1,696</td>
<td>1,019,365</td>
<td>0.139237</td>
<td>0.162613</td>
<td>23.2</td>
<td>27.1</td>
</tr>
<tr>
<td>45-54</td>
<td>2,870</td>
<td>818,660</td>
<td>0.117811</td>
<td>0.134834</td>
<td>41.3</td>
<td>47.3</td>
</tr>
<tr>
<td>55-64</td>
<td>4,561</td>
<td>495,555</td>
<td>0.080294</td>
<td>0.087247</td>
<td>73.9</td>
<td>80.3</td>
</tr>
<tr>
<td>65-74</td>
<td>9,782</td>
<td>442,003</td>
<td>0.048426</td>
<td>0.066037</td>
<td>107.2</td>
<td>146.1</td>
</tr>
<tr>
<td>75-84</td>
<td>17,397</td>
<td>299,482</td>
<td>0.017303</td>
<td>0.044842</td>
<td>100.5</td>
<td>260.5</td>
</tr>
<tr>
<td>85+</td>
<td>17,765</td>
<td>120,501</td>
<td>0.002770</td>
<td>0.015508</td>
<td>40.8</td>
<td>228.6</td>
</tr>
<tr>
<td>Total</td>
<td>418.0</td>
<td>815.9</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Age-Specific Death Rate
A rate for a specified age group. Age-specific death rates are calculated by dividing the actual number of deaths in a given year for a specific age group by the population in that age group for that year. The numerator and denominator refer to the same age group.

\[
\text{Age-specific death rate (ages 25-34)} = \frac{\text{Number of deaths among residents ages 25-34 in a given year}}{\text{population ages 25-34 in that year}} \times 100,000
\]

Obesity and Overweight
All respondents to the BRFSS are asked to report their height and weight. Respondents are then categorized based on their Body Mass Index (BMI), which equals weight in kilograms divided by height in meters squared. Using the Healthy People 2010 standards (HP2010), all adults with a BMI between 25.0-29.9 were classified as being overweight and adults with a BMI greater than or equal to 30.0
were classified as being obese. For example, a person who is 5'6” would be considered overweight at 155 pounds and obese at 186 pounds.

<table>
<thead>
<tr>
<th>Height</th>
<th>Overweight BMI 25.0-29.9</th>
<th>Obesity BMI &gt; 30</th>
</tr>
</thead>
<tbody>
<tr>
<td>5'</td>
<td>128 lbs.</td>
<td>153 lbs.</td>
</tr>
<tr>
<td>5'2”</td>
<td>136</td>
<td>164</td>
</tr>
<tr>
<td>5'4”</td>
<td>145</td>
<td>174</td>
</tr>
<tr>
<td>5'6”</td>
<td>155</td>
<td>186</td>
</tr>
<tr>
<td>5'8”</td>
<td>164</td>
<td>197</td>
</tr>
<tr>
<td>6’</td>
<td>184</td>
<td>221</td>
</tr>
<tr>
<td>6'2”</td>
<td>195</td>
<td>234</td>
</tr>
</tbody>
</table>

Population
Every year the Population Estimates Program of the U.S. Census Bureau, in collaboration with the National Center for Health Statistics (NCHS), produces bridged race files for the states and counties. These estimates are known as the Modified Age Race Sex (MARS) estimates. In previous years, we have not used these estimates since they are not available at the city/town level.

Methodology for 2005 Population Estimates
In the years since Census 2000, the distribution of Massachusetts residents has changed by age, race/ethnicity, and race. In 2006, because these changes were significant, MDPH decided to produce new population estimates by age, race/ethnicity, and sex at the city/town level.

These estimates were created using the city/town age, race/ethnicity, and sex proportions of their counties in the MRACE estimates and applying these to the MARS county estimates. The resulting estimates were called the Massachusetts Department of Public Health Modified Age, Race, & Sex 200x Estimates (MMARS0x), where x = year. Estimates were produced for 2000, 2001, 2002, 2003, 2004, and 2005.

Statistical Significance
The statistical significance of an outcome or comparison is the probability that the outcome occurred by pure chance. We refer to outcomes that were unlikely to have occurred by chance as “statistically significant” and those that are likely to have occurred by chance as “not statistically significant.” The probability of error (or degree of uncertainty) that we use to determine if our observed result is statistically significant is 5% (p=.05), which means that there is a 5% probability that we are in error in stating that our finding is “statistically significant.” On the other hand, we are 95% certain that our result is significant. We use several statistical tools to determine if an outcome is statistically significant including comparing confidence intervals and regression analysis.
DATA SOURCES

Census Bureau
The U.S. Census Bureau used two different forms to collect Census 2000 data. A short form (100% data) with seven basic questions went to all households and a long form with these same questions and additional questions went to a sample of households. The questions asked on the short form included: name; sex; age; household relationship; Hispanic origin; race, and whether the home was owned or rented. About 83 percent of households received the short form. The information that is tabulated from the questions asked of every person and housing unit is called the 100-percent or short-form data. The long-form questionnaire included the same seven population and housing questions plus additional inquiries. On average, 1 in every 6 households received the long form. The information that is tabulated from the questions asked of this sample of persons and housing units is called sample or long-form data. The Census race category for American Indians is “American Indian and Alaska Native”.

Summary File 1 (SF 1) presents counts and basic cross-tabulations of information collected from all people and housing units. This information includes age, sex, race, Hispanic or Latino origin, household relationship, and whether the residence is owned or rented.

Summary File 2 (SF 2) provides population and housing characteristics for many detailed race and Hispanic or Latino categories, and American Indian and Alaska Native tribes. Thresholds for SF2: Two "rules of 100" are applied to the SF 2 tables:

- No tables are available for geographic areas having a population of less than 100.
- Tables are repeated only for the race groups, American Indian and Alaska Native tribes, and Hispanic or Latino groups having a population of 100 or more within the geographic area.
- SF2 includes data for 78 American Indian and Alaska Native tribes (reflecting 39 individual tribes)

Summary File 3 (SF 3) provides information from the long-form plus additional questions on income, education, occupation, housing rent and value.

Summary File 4 (SF 4) contains tabulations of population and housing data collected from a sample of the population. The data are shown down to the census tract level for 336 race, Hispanic or Latino, American Indian and Alaska Native, and ancestry categories. Thresholds for SF4:
Tables for any population group excluded from SF 2 because the group's total population in a specific geographic area did not meet the threshold of 100 people are excluded from SF 4.

Tables in SF 4 shown for any of the above population groups will only be shown if there are at least 50 unweighted sample cases in a specific geographic area. The same 50 unweighted sample cases also applied to ancestry iterations.

SF4 includes data for 78 American Indian and Alaska Native tribes (reflecting 39 individual tribes)

U.S. Census Bureau & National Center for Health Statistics (NCHS) Modified Age/ Race, Sex (MARS) File

In addition to the Census 2000 Summary Files, the Census Bureau, in collaboration with the National Center for Health Statistics produces yearly estimates in which the “some other race” and “two or more race” populations are distributed among the pre-1997 OMB standard race groups (White, Black or African American, American Indian or Alaska Native, Asian or Pacific Islander) and two ethnicities (Hispanic and non-Hispanic).

The bridged Vintage 2004 postcensal population (MARS) file contains estimates of the resident population of the United States as of July 1, 2000, July 1, 2001, July 1, 2002, July 1, 2003, and July 1, 2004, by county, single-year of age (0, 1, 2,..., 85 years and over), bridged-race category (White, Black or African American, American Indian or Alaska Native, Asian or Pacific Islander), Hispanic origin (not Hispanic or Latino, Hispanic or Latino), and sex (1). The estimates on this file resulted from bridging the Vintage 2004 postcensal estimates with 31 race groups (the 31 race groups used in Census 2000 in accordance with the 1997 Office of Management and Budget (OMB) standards for the collection of data on race and ethnicity) to the four race categories specified under the 1977 OMB standards. Thus, the estimates in this file are based on Census 2000. The bridged-race postcensal estimates were produced by the Population Estimates Program of the U.S. Census Bureau in collaboration with the National Center for Health Statistics (NCHS). This file was released by NCHS on September 9, 2005.

Behavioral Risk Factor Survey
The Behavioral Risk Factor Surveillance System (BRFSS) is a continuous, random-digit-dial, telephone survey of adults age 18 and older, and is conducted in all states as a joint collaboration between the Centers for Disease Control and Prevention (CDC) and state Departments of Health. The survey has been conducted in Massachusetts since 1986. The BRFSS collects data on a variety of health characteristics, risk factors for chronic conditions, and preventive behaviors. The information obtained in this survey assists in identifying the need for health interventions, monitoring the effectiveness of existing intervention and prevention
programs, developing health policy and legislation, and measuring progress toward attaining state and national health objectives. Race and ethnicity data is determined based on self-identification. The BRFSS race category for American Indians is “American Indian or Alaska Native”.

**Birth Data**
Data on births are based on information from the Massachusetts certificate of live birth. Medical information such as birthweight and prematurity are based on information supplied by hospitals, while demographic and behavioral data such as race and ethnicity, and smoking during pregnancy are supplied by the woman who gave birth. Women chose their race from five categories: White, Black, Asian/Pacific Islander, American Indian, and Other. Ancestry is self-identified by selecting one of 38 ancestry/ethnicity groups, including Native American (American Indian is used for race, and Native American is used for ethnicity.)

**Mortality Data**
Data on mortality are based on information from death certificates filed with the Massachusetts Registry of Vital Records and Statistics. Physicians and medical examiners assign cause of death through a system that acknowledges the possibility of multiple causes. Demographic information on death certificates, such as age, race, Hispanic ethnicity, gender, educational attainment, marital status, and occupation is recorded by the funeral director based on information provided by an informant, usually a family member, or, in the absence of an informant, based on observation. Race and Hispanic ancestry are based on responses to two questions: one to identify race and the other to ascertain whether the decedent was of Hispanic ancestry. The mortality race category for American Indians is “Indian (American, Alaskan, Canadian, Mexican Indian, Eskimo and Aleut)”.

**Substance Abuse Treatment Programs**
The Bureau of Substance Abuse Services oversees the substance abuse prevention and treatment services in the Commonwealth. Its responsibilities include licensing programs and counselors, funding and monitoring prevention and treatment services, providing access to treatment for the indigent and uninsured, developing and implementing policies and programs, and, tracking substance abuse trends in the state. Their data on race and ethnicity are self-reported. It should be noted that the use of substance abuse treatment programs is not synonymous with the need for access to these programs. The race category used for this section is “American Indians”.

**Hospital Discharge and Emergency Department Data**
Hospital Discharge and Emergency Department Visit Data are from the Division of Health Care Finance and Policy’s (DHCF&P). The Hospital Discharge Data file contains approximately 800,000 records for all discharges from short-stay acute care hospital facilities in Massachusetts (except several federal and state facilities). Race/Hispanic ethnicity is coded to one of six mutually exclusive categories in the Hospital Discharge Dataset: White, Black, Hispanic, Asian, American Indian, or
Other. The Emergency Department Data database captures data for all outpatient visits to Massachusetts acute care hospitals EDs and satellite emergency facilities. It includes patient demographics, clinical characteristics, services provided, charges, and hospital and practitioner information.

**AIDS Incidence Data**

AIDS Case Data are from the HIV/AIDS Surveillance Program at the MA Department of Public Health. AIDS has been a reportable condition in MA since 1983. All healthcare providers are required by law to report CDC-defined AIDS to the MA Department of Public Health HIV/AIDS Surveillance Program (MHASP) located at the State Laboratory Institute. Even though a greater proportion of actual AIDS cases are reported than many other communicable diseases, interpretation of AIDS case data is hampered by a small degree of non-reporting (10-15%). In addition, not all cases are reported at the time of diagnosis, creating a reporting lag leading to an undercounting of recent cases (prior six months). Data on race/ethnicity are abstracted primarily from medical records.
<table>
<thead>
<tr>
<th>REGION</th>
<th>TOWN</th>
<th>COUNTY</th>
<th>CHNA</th>
</tr>
</thead>
<tbody>
<tr>
<td>BOSTON</td>
<td>BOSTON</td>
<td>SUFFOLK</td>
<td>Alliance for Community Health</td>
</tr>
<tr>
<td></td>
<td>BROOKLINE</td>
<td>NORFOLK</td>
<td>Alliance for Community Health</td>
</tr>
<tr>
<td></td>
<td>CHELSEA</td>
<td>SUFFOLK</td>
<td>Alliance for Community Health</td>
</tr>
<tr>
<td></td>
<td>REVERE</td>
<td>SUFFOLK</td>
<td>Alliance for Community Health</td>
</tr>
<tr>
<td></td>
<td>WINTHROP</td>
<td>SUFFOLK</td>
<td>Alliance for Community Health</td>
</tr>
<tr>
<td>CENTRAL</td>
<td>ASHBURNHAM</td>
<td>WORCESTER</td>
<td>Fitchburg/Gardner CHN</td>
</tr>
<tr>
<td></td>
<td>ASHBY</td>
<td>MIDDLESEX</td>
<td>Fitchburg/Gardner CHN</td>
</tr>
<tr>
<td></td>
<td>AUBURN</td>
<td>WORCESTER</td>
<td>Community Wellness Coalition</td>
</tr>
<tr>
<td></td>
<td>AYER</td>
<td>MIDDLESEX</td>
<td>Fitchburg/Gardner CHN</td>
</tr>
<tr>
<td></td>
<td>BARRE</td>
<td>WORCESTER</td>
<td>Fitchburg/Gardner CHN</td>
</tr>
<tr>
<td></td>
<td>BELLINGHAM</td>
<td>NORFOLK</td>
<td>Community Partners for Health</td>
</tr>
<tr>
<td></td>
<td>BERLIN</td>
<td>WORCESTER</td>
<td>Fitchburg/Gardner CHN</td>
</tr>
<tr>
<td></td>
<td>BLACKSTONE</td>
<td>WORCESTER</td>
<td>Community Partners for Health</td>
</tr>
<tr>
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Table A1. 2005 Massachusetts Population Estimates\(^1\) By Age Group, Gender, Race and Hispanic Ethnicity\(^2\) (mutually exclusive)

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<th>AGE</th>
<th>GENDER</th>
<th>TOTAL</th>
<th>WHITE non-Hispanic</th>
<th>BLACK non-Hispanic</th>
<th>ASIAN non-Hispanic</th>
<th>HISPANIC</th>
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<td>644,835</td>
<td>64,904</td>
<td>48,214</td>
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<td>5,176,785</td>
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<td>311,985</td>
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1. National Center for Health Statistics. Estimates of the July 1, 2000-July 1, 2005, United States resident population from the Vintage 2005 postcensal series by year, county, age, sex, race, and Hispanic origin, prepared under a collaborative arrangement with the U.S. Census Bureau. Available on the Internet from: [http://www.cdc.gov/nchs/about/major/dvs/popbridge/popbridge.htm](http://www.cdc.gov/nchs/about/major/dvs/popbridge/popbridge.htm). August 16, 2006. 2. Persons of Hispanic ethnicity are NOT included in the race categories. These estimates are used to calculate population based rates in published in this report, except for Table A1.