

Regional Health Status Indicators Metrowest Massachusetts



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ACKNOWLEDGEMENTS

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NOTE TO READERS

Background

This report presents important health indicators for your region, which were developed as background material for the Regional Health Dialogues being held across the Commonwealth in May and June 2007. These dialogues offer an opportunity for you to have a conversation with the Commissioner of Public Health, learn the latest health information for your region, identify your resources and areas of need, and together, with the Massachusetts Department of Public Health, shape a public health partnership.

Contents

This report provides information about the socio-demographics, health care access, births, deaths, major chronic and infectious disease rates, substance abuse, and injury and violence for your region. Your region's indicators are compared with those of other regions and to the state as a whole in order to provide you with a sense of the relative health of your region. Many indicators for your region are stratified by race, Hispanic ethnicity, and age in order help determine specific population groups that may require targeted health interventions. We have also provided information about the health status of one or more large communities in your region, which may be influencing your regional outcomes. We hope that this collection of important and diverse health indicators will stimulate discussions of local health priorities, as well as serving as a resource for health information and a reference for data that are available from the Massachusetts Department of Public Health. Please contact us with your comments and suggestions.

INTRODUCTION

Goals for holding Regional Dialogues

- Introduce new DPH leadership
- Present latest health data on your particular region
- Talk with residents and providers about data and identify areas of need
- Gather feedback to inform process of setting DPH priorities

Goals of New DPH leadership

- Use data and community input to set new priorities & reshape the Department
- Rely on science and evidence-based process to guide the work
- Strengthen ties with and support for local health and local agencies
- Increase resources to and visibility of public health in Massachusetts

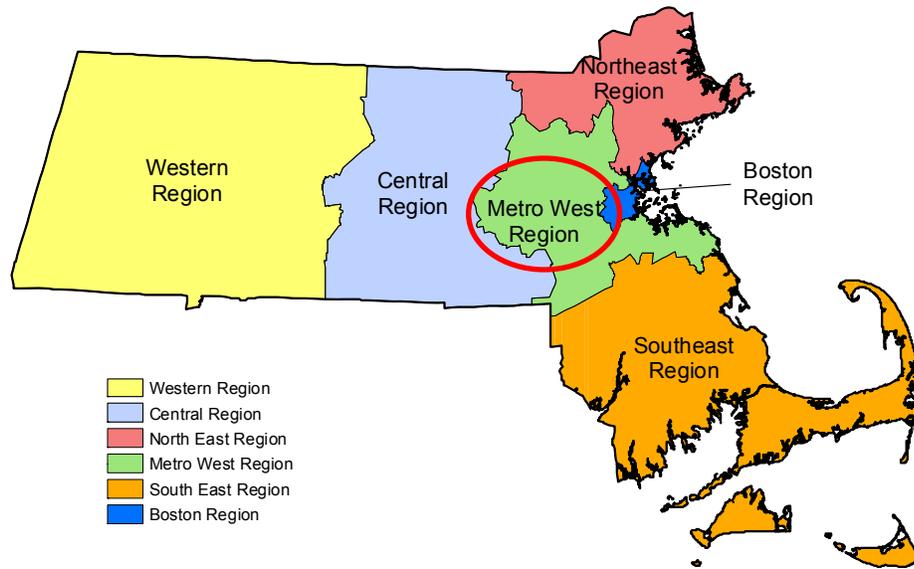
Timetable

- Hold 8 regional dialogues with comprehensive data review and identification of key health concerns (by July)
- Identify short list of top priorities by end of August
- Hold second round of community dialogues to discuss action plans/results by end of calendar year

SOCIODEMOGRAPHIC INDICATORS

Executive Office of Health and Human Services Regions

1



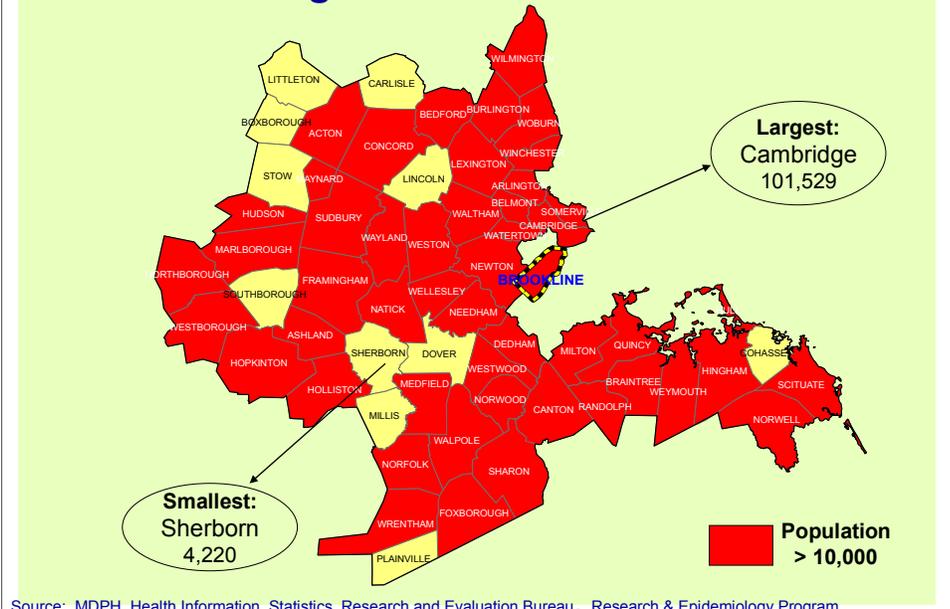
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A few comments about the limitations of this presentation

- A regional analysis has its drawbacks
- Variability within a region – urban vs. rural/suburban (i.e. Cambridge vs. the rest of the region)
- Variability by sub-population – race matters, poverty matters
- Our data don't reflect all the important health indicators

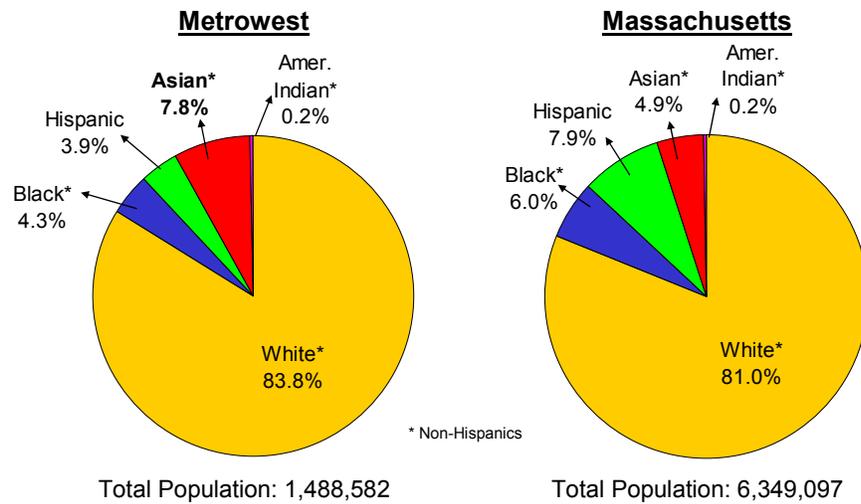
Population in Communities Metrowest Region: 2005

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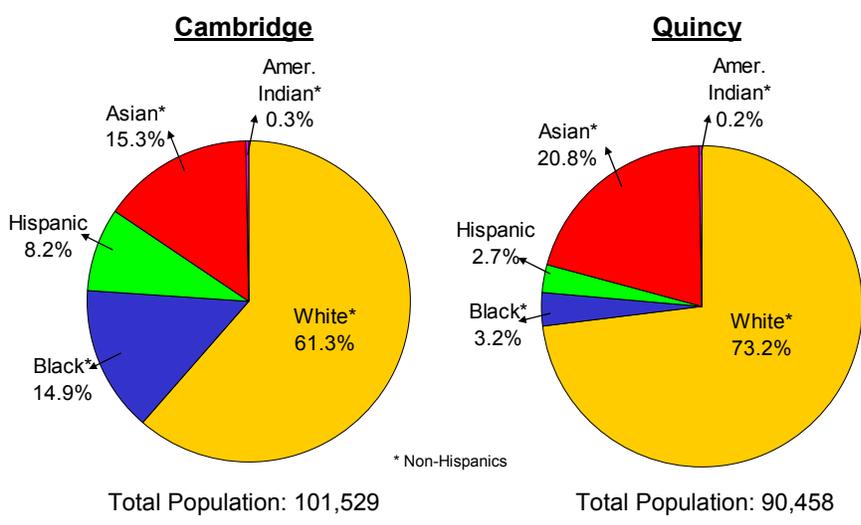
Race and Ethnic Breakdown of Population Metrowest Region and Massachusetts: 2005

4



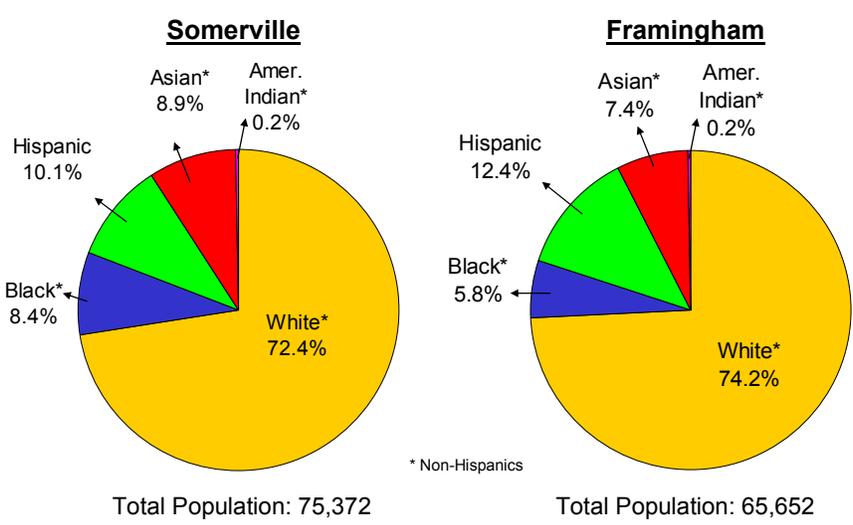
Source: MDPH, Health Information, Statistics, Research and Evaluation Bureau, Research & Epidemiology Program

Race and Ethnic Breakdown of Population Cambridge and Quincy : 2005



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

Race and Ethnic Breakdown of Population Somerville and Framingham: 2005



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

Population by Age Group Metrowest Region and Massachusetts: 2005

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

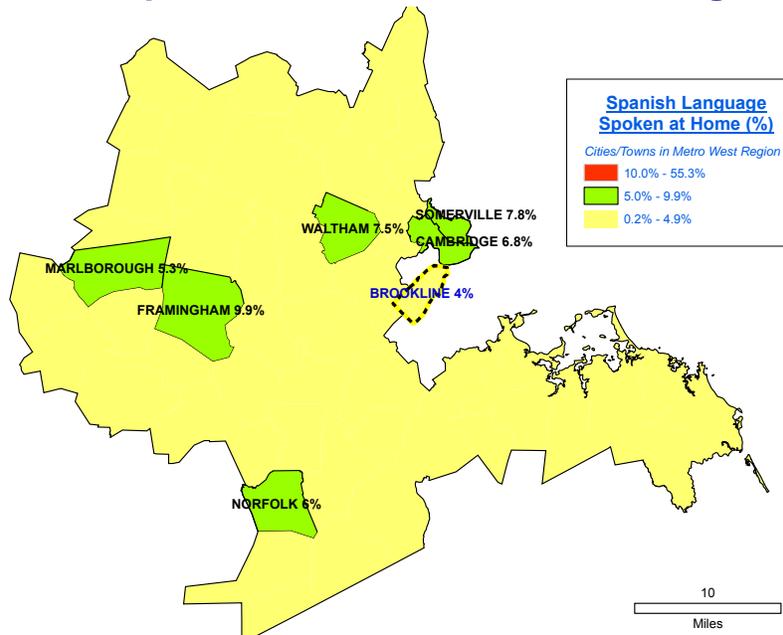
Source: MDPH, Health Information, Statistics, Research & Evaluation Bureau, Research & Epidemiology Program

Language Spoken at Home, Metrowest Region and Massachusetts: 2000

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

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

Spanish Spoken at Home in Metrowest Region: 2000



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

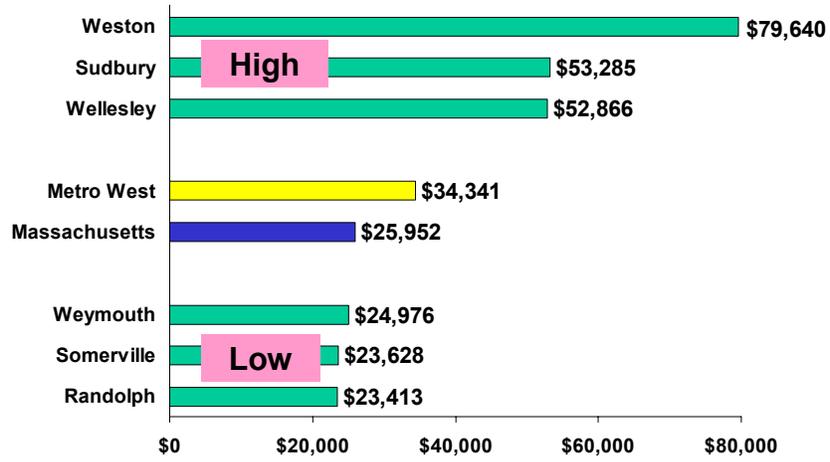
10

Socio-Demographic Indicators Metrowest Region and Massachusetts: 2000

	Cambridge	Quincy	Somerville	Framingham	Metro west Region	MA
Per Capita Income	\$31,156	\$26,001	\$23,628	\$27,758	\$34,341	\$25,952
Those living below 100% poverty	12.9%	7.3%	12.5%	8.1%	5.3%	9.3%
Less than a High School Educ.	10.5%	14.8%	19.4%	12.9%	9.0%	15.2%
Speak language other than English at home	31.2%	23.8%	35.6%	29.2%	21.9%	18.7%
Foreign born	25.9%	20.0%	29.3%	21.2%	12.1%	12.2%
Unemployed	3.6%	5.2%	4.0%	4.1%	4.2%	5.1%

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

Highest and Lowest Per Capita Income by Community¹ in Metrowest Region: 2000



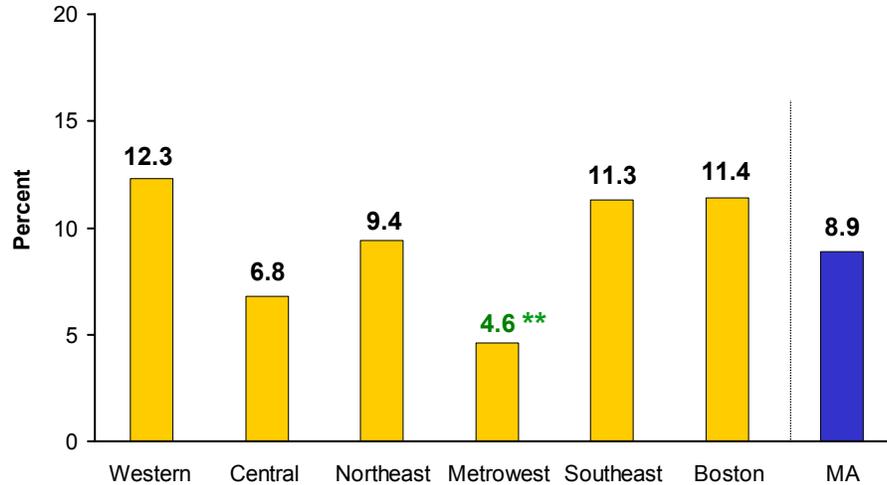
¹ Selected among communities with at least 10,000 population

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

HEALTH CARE ACCESS

Adults who Have No Health Insurance by EOHHS Region, Massachusetts: 2005

12



Statistically different from state ($p \leq .05$)– Red (*) Statistically worse than state- Green (**) statistically better than state

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

Summary Indicators for Health Insurance by EOHHS Regions, Massachusetts: 2005

13

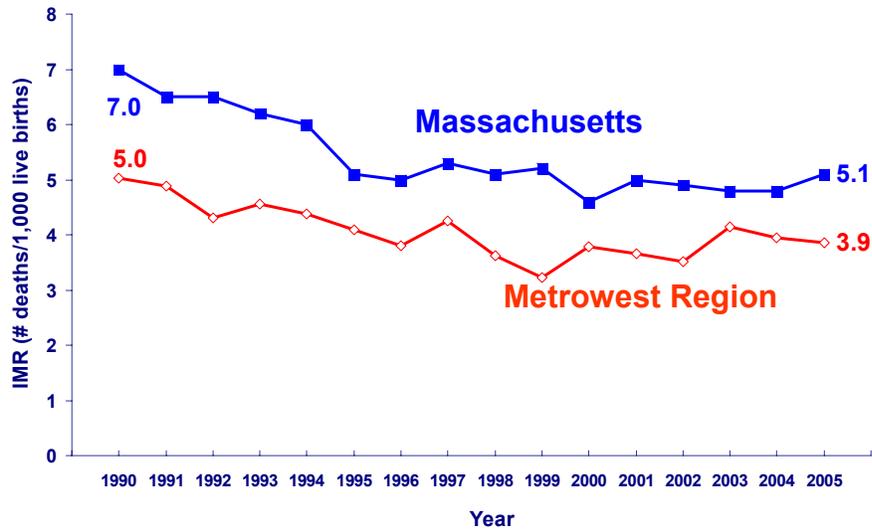
Indicator	MA Total	Western	Central	Northeast	Metro West	South East	Boston
% Adults with no health insurance	8.9	12.3	6.8	9.4	4.6	11.3	11.4
% Adults who have a personal health care provider	87.1	85.3	90.0	85.8	90.3	88.2	78.3
% Adults who were unable to see a doctor due to cost	8.8	10.4	10.4	7.8	7.0	9.2	9.4

■ Better Outcome (significantly different from state) ■ Worse Outcome (significantly different from state)

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

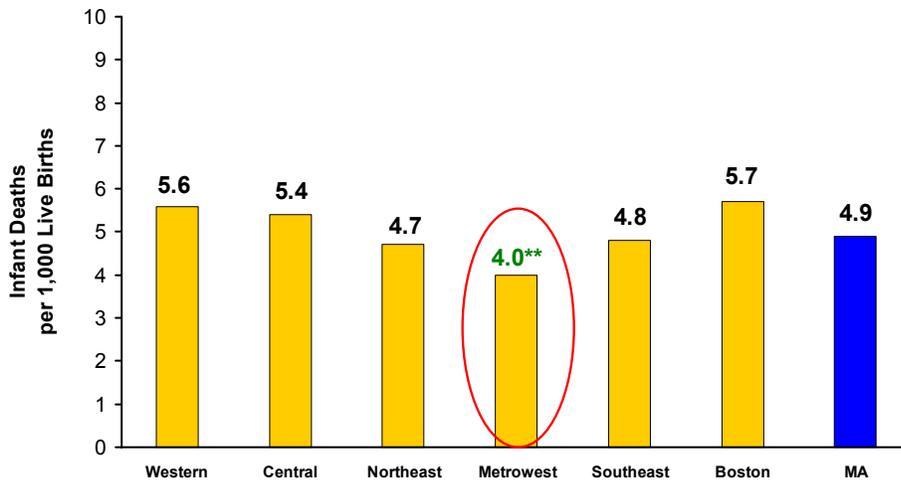
BIRTH INDICATORS

Infant Mortality Rate (IMR) Metrowest Region and Massachusetts: 1990-2005



Infant Mortality Rate: deaths of infants less than one year of age per 1000 live births
Source: MDPH, Health Information, Statistics, Research and Evaluation Bureau, Research & Epidemiology Program

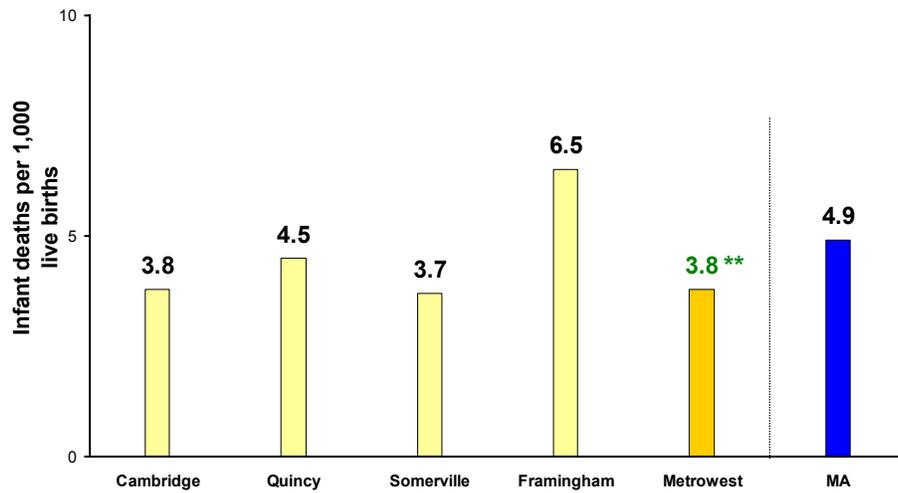
Infant Mortality Rates by EOHHS Region Massachusetts: 2002-2005



Statistically different from State ($p \leq .05$) Red (*) = Statistically worse; Green (**) = Statistically better
Infant Mortality Rate: deaths of infants less than one year of age per 1000 live births
Source: MDPH, Health Information, Statistics, Research & Evaluation Bureau, Research & Epidemiology Program

Infant Mortality Rates by Metrowest Cities and Massachusetts: 2000-2005

16

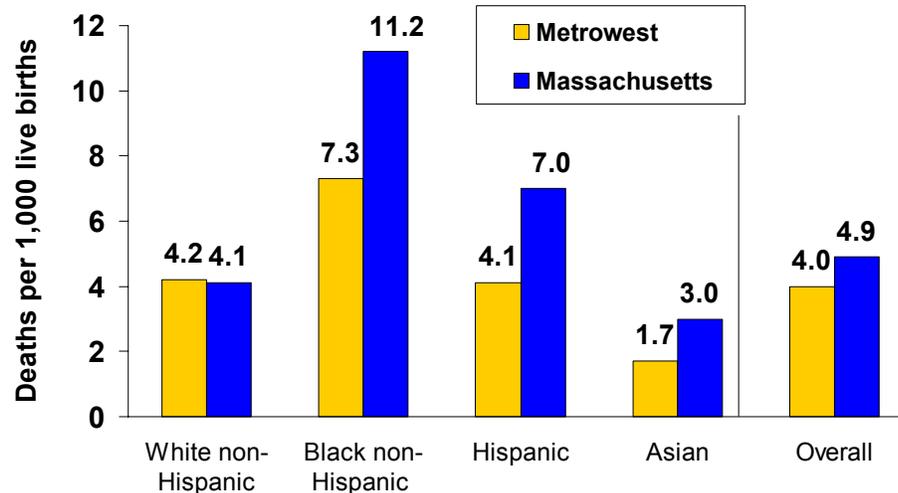


Statistically different from state ($p \leq .05$)– Red (*) Statistically worse than state- Green (**) statistically better than state

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

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

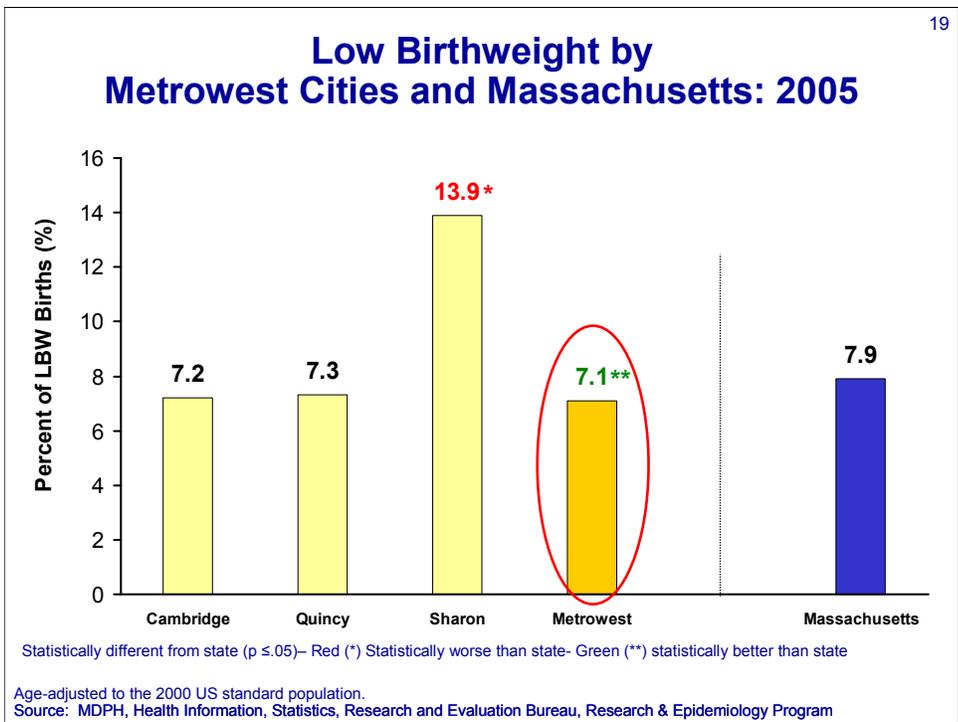
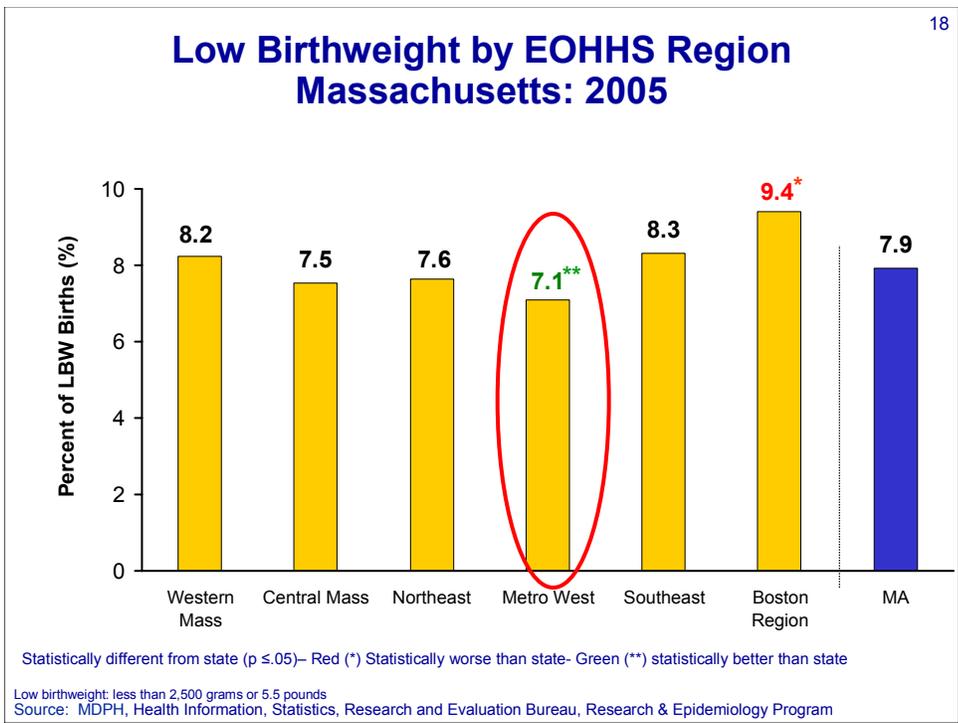
17

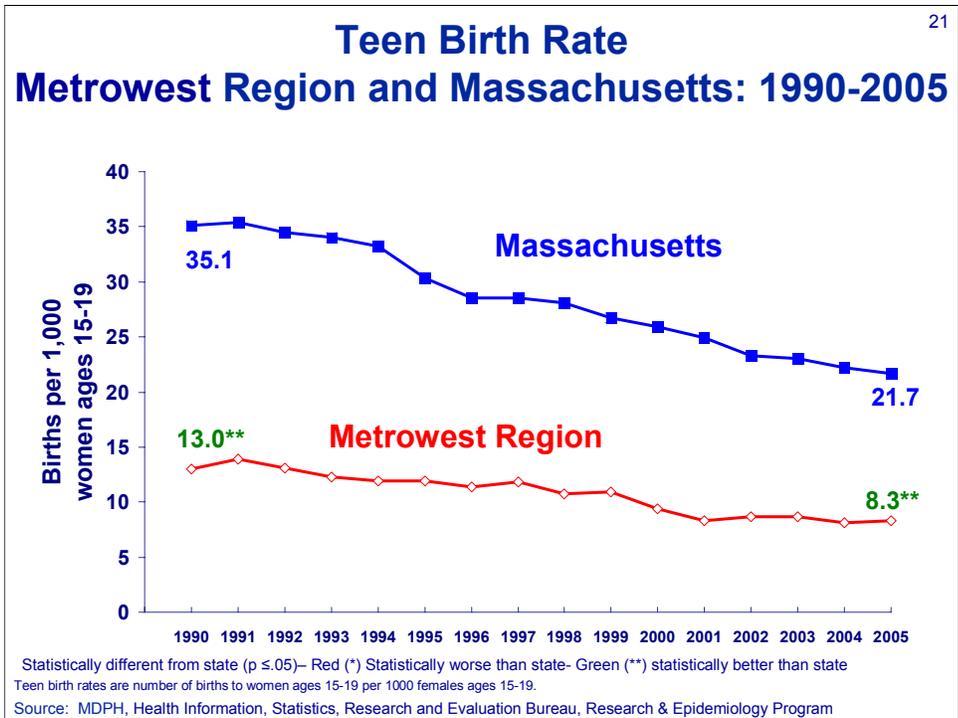
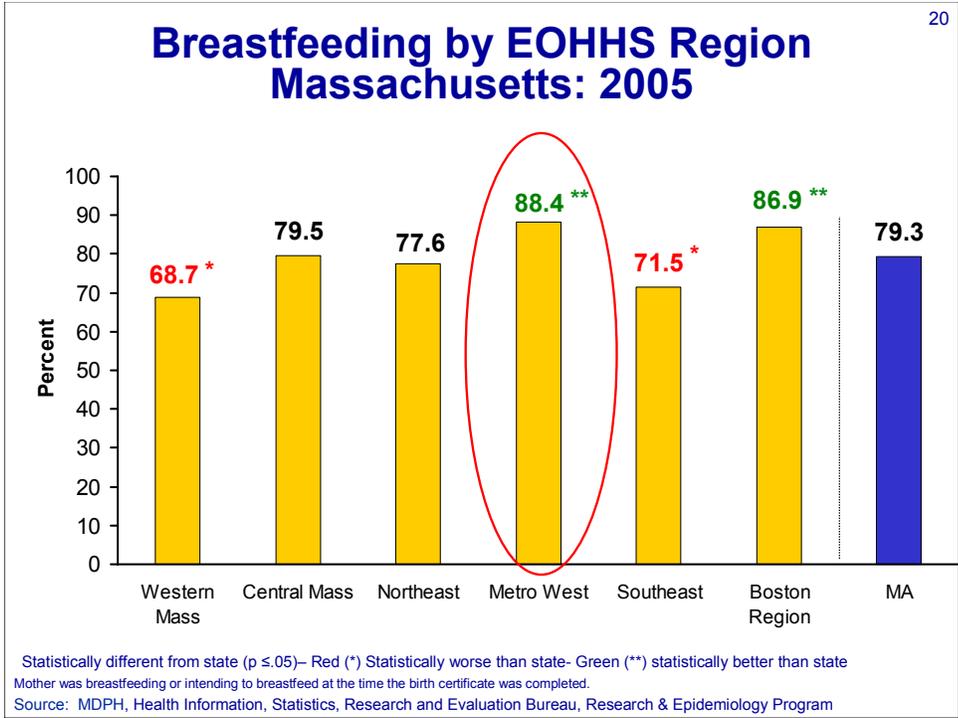


* Statistically Significantly different from state ($p \leq .05$)

NA= Calculations based on less than 5 events are excluded

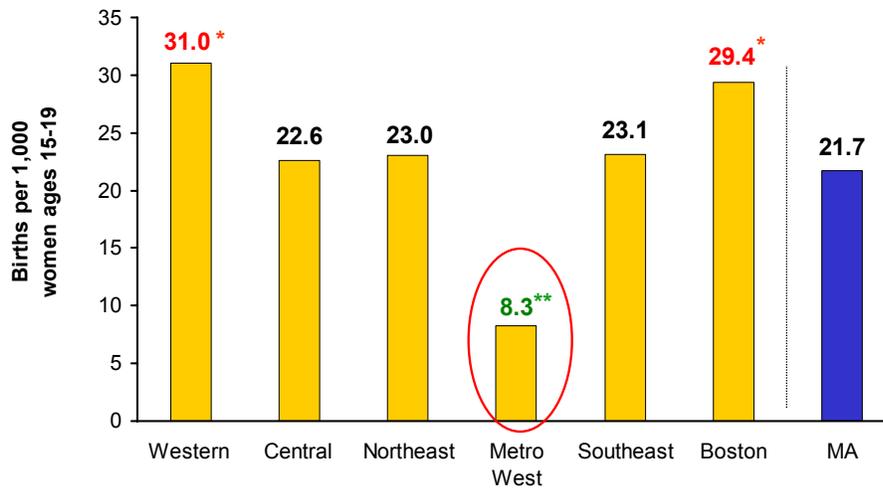
Source: MDPH, Health Information, Statistics, Research and Evaluation Bureau, Research & Epidemiology Program





Teen Birth Rates¹ by EOHHS Regions Massachusetts: 2005

22



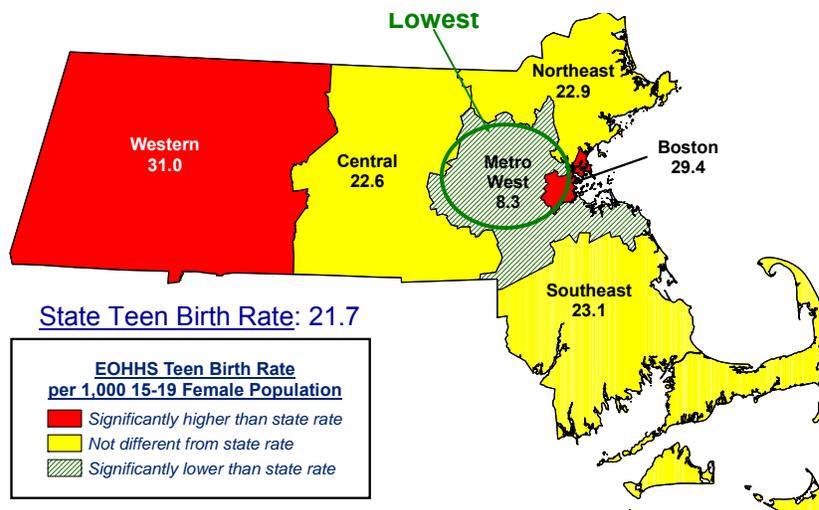
Statistically different from state ($p \leq .05$)– Red (*) Statistically worse than state– Green (**) statistically better than state

¹Teen birth rates are number of births to women ages 15-19 per 1000 females ages 15-19.

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

Teen Birth Rates by EOHHS Region Massachusetts: 2005

23

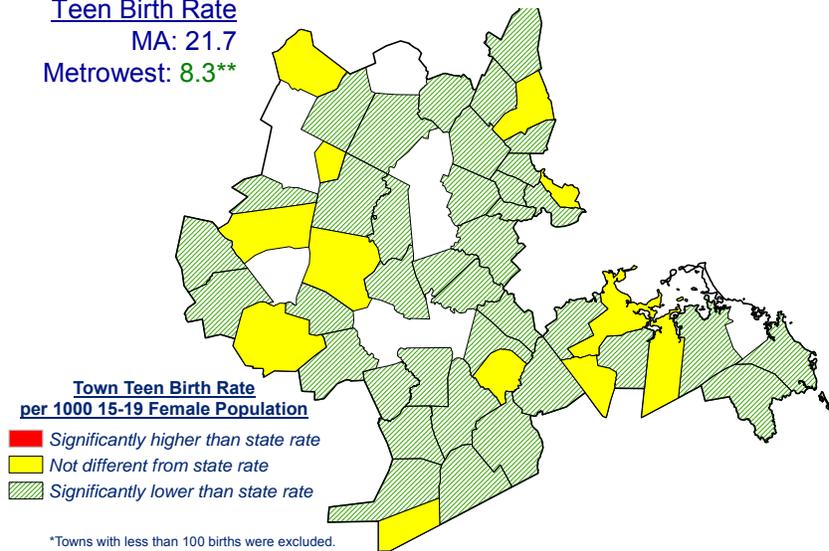


Teen birth rates are number of births to women ages 15-19 per 1000 females ages 15-19.

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

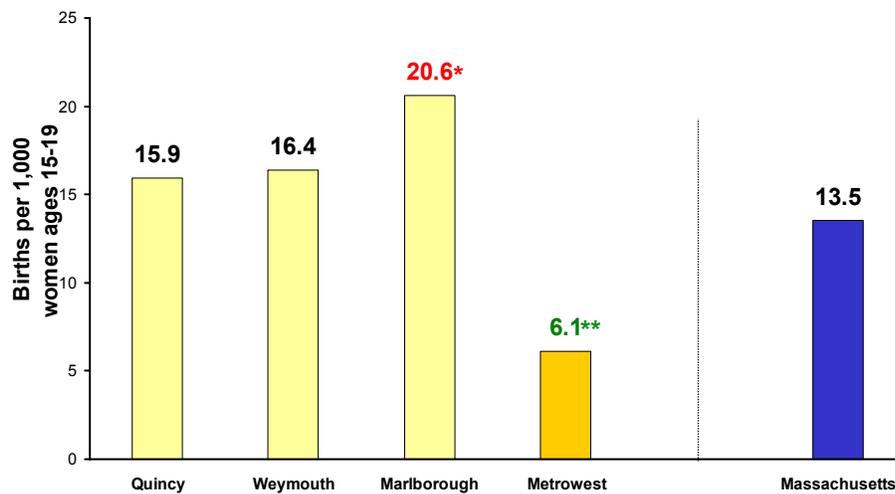
Teen Birth Rates by City/Town Metrowest Region: 2005

Teen Birth Rate
MA: 21.7
Metrowest: 8.3**



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

Teen Births to White non-Hispanic Mothers by Metrowest Cities and Massachusetts: 2003-2005

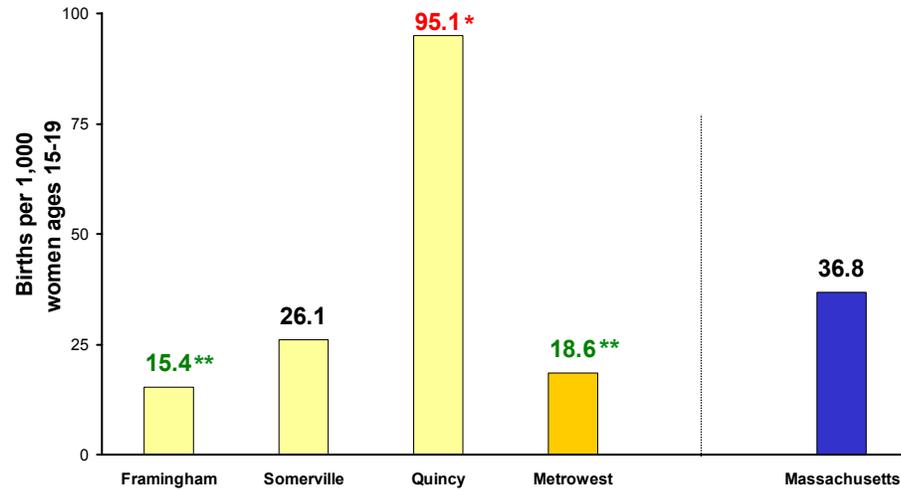


Statistically different from state (p ≤ .05)– Red (*) Statistically worse than state- Green (**) statistically better than state

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

Teen Births to Black non-Hispanic Mothers by Metrowest Cities and Massachusetts: 2003-2005

26

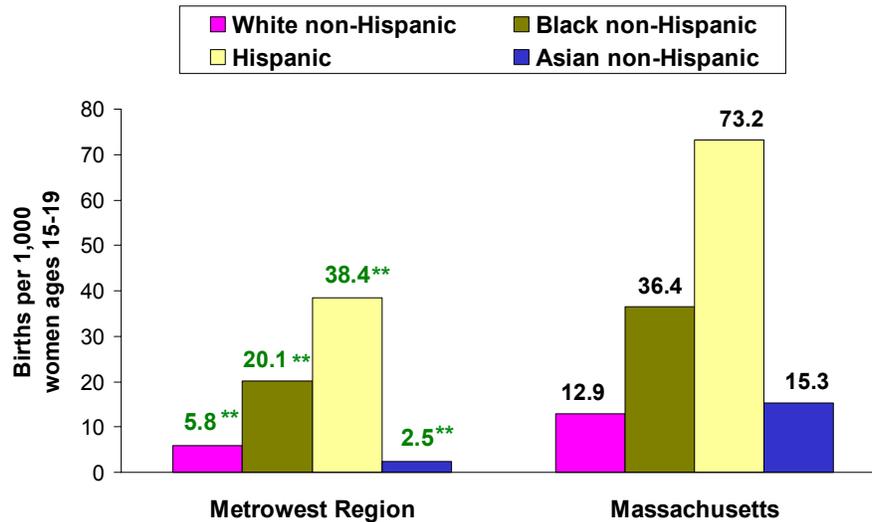


Statistically different from state ($p \leq .05$)– Red (*) Statistically worse than state- Green (**) statistically better than state

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

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

27



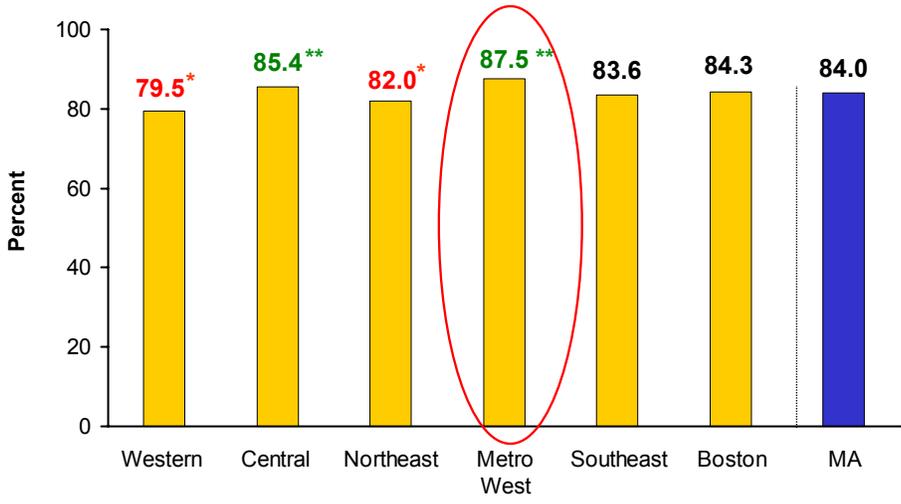
Statistically different from state ($p \leq .05$)– Red (*) Statistically worse than state- Green (**) statistically better than state

Teen birth rates are number of births to women ages 15-19 per 1000 females ages 15-19.

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

Adequate Prenatal Care by EOHHS Regions Massachusetts: 2005

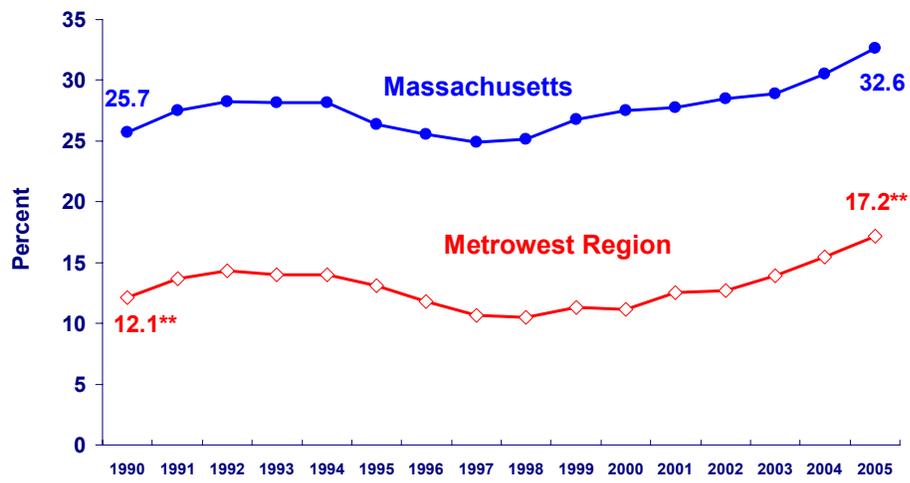
28



Statistically different from state ($p \leq .05$)– Red (*) Statistically worse than state- Green (**) statistically better than state
 Based on Adequacy of Prenatal Care Utilization (APNCU) Index.
 Source: MDPH, Health Information, Statistics, Research and Evaluation Bureau, Research & Epidemiology Program

Public Source¹ of Payment for Prenatal Care Metrowest Region and Massachusetts: 1990-2005

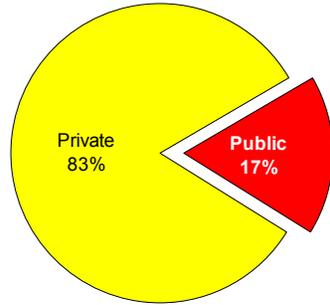
29



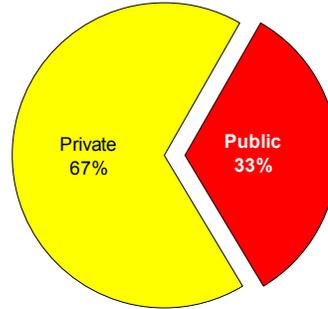
¹Public: Government programs including Commonwealth, Healthy Start, Medicaid/MassHealth, or free care. Private: Commercial indemnity plan, commercial Managed care (HMO, PPO, IPP, IPA and other) or other private insurance.
 Statistically different from state ($p \leq .05$)– Red (*) Statistically higher than state- Green (**) statistically lower than state
 Source: MDPH, Health Information, Statistics, Research and Evaluation Bureau, Research & Epidemiology Program

Public Source of Payment for Prenatal Care Metrowest Region and Massachusetts: 2005

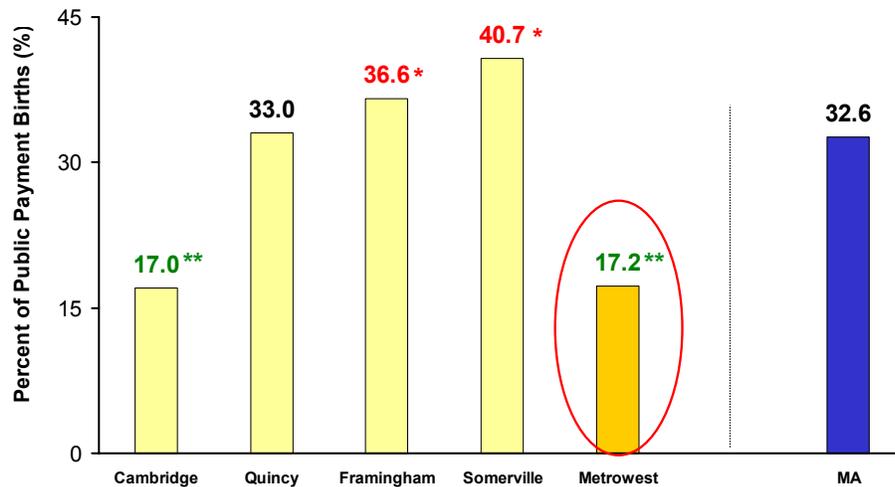
Metrowest Region



Massachusetts



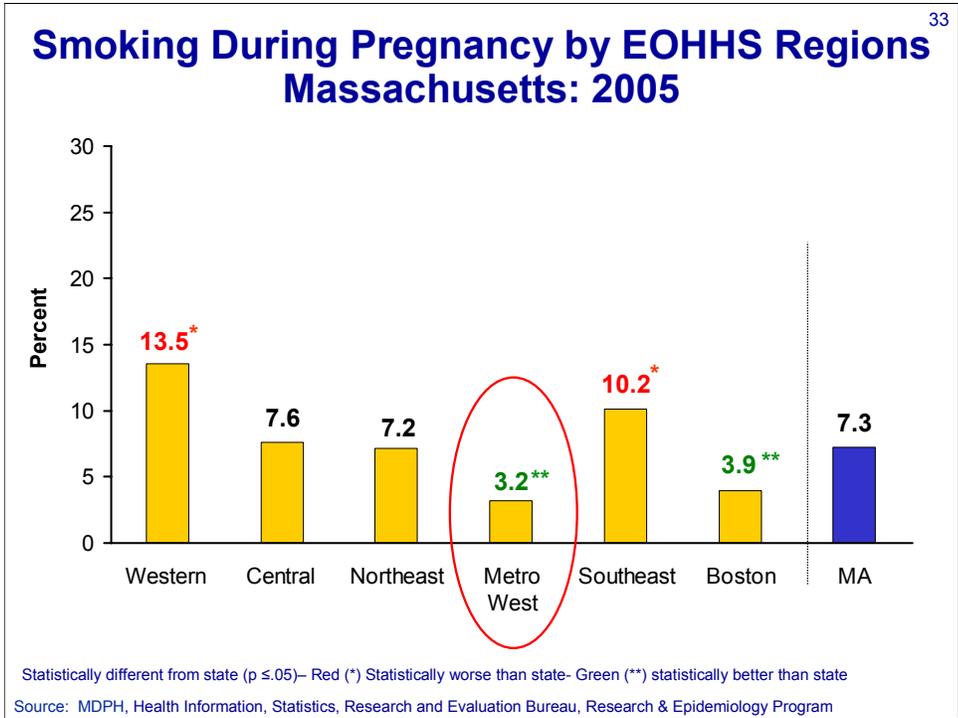
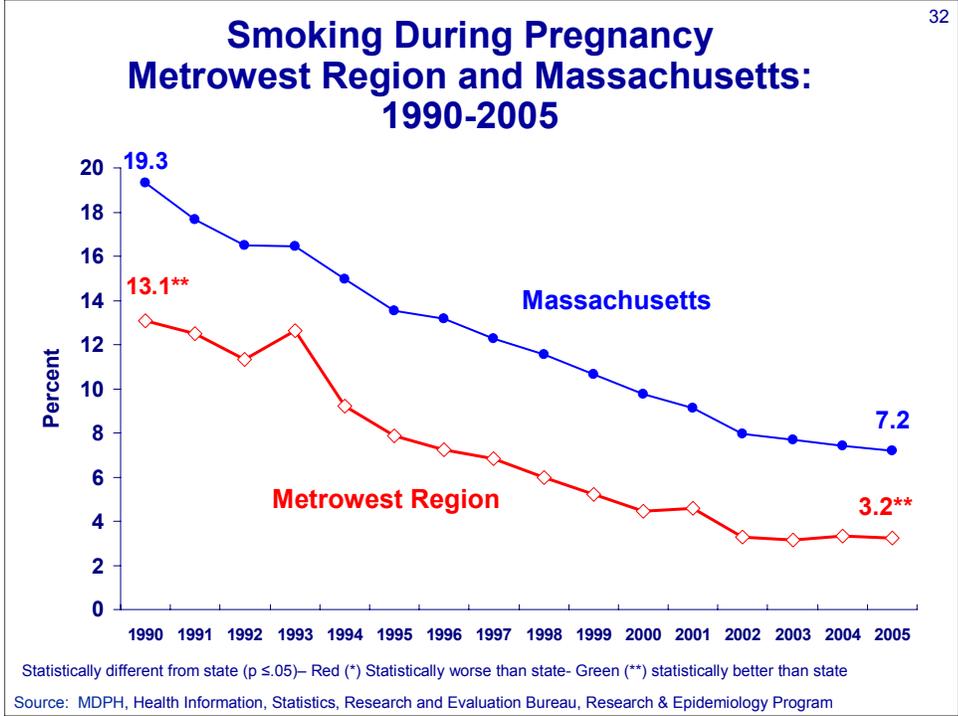
Public Source of Prenatal Care Payment by Metrowest Cities and Massachusetts: 2003-2005



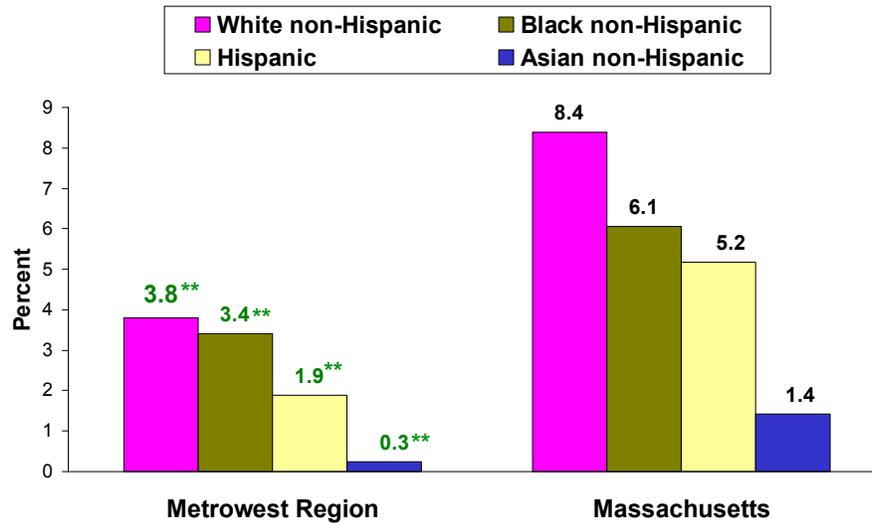
Statistically different from state ($p \leq .05$)– Red (*) Statistically higher than state- Green (**) statistically lower than state

Public: Government programs including Commonhealth, Healthy Start, Medicaid/MassHealth, and free care

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



Smoking During Pregnancy by Race and Ethnicity Metrowest Region and Massachusetts: 2005



Statistically different from state (p ≤.05)– Red (*) Statistically worse than state- Green (**) statistically better than state
Source: MDPH, Health Information, Statistics, Research and Evaluation Bureau, Research & Epidemiology Program

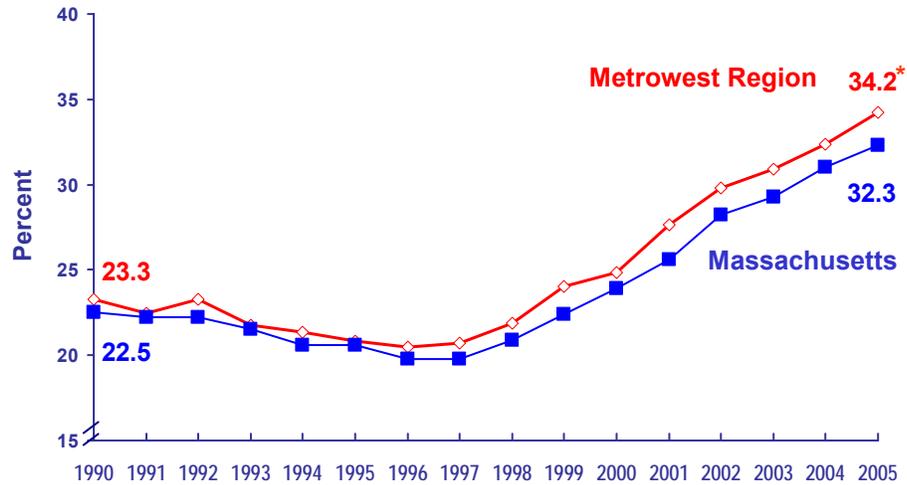
Percent of Mothers Smoking During Pregnancy for Largest Communities Metrowest Region: 2005

	<u>%</u>	<u>Smokers</u>	<u>Births</u>
Massachusetts	7.2%	5,555	76,653
Metrowest	3.2%**	551	17,059
<u>Lowest</u>			
Natick	2.4%**	10	418
Newton	1.0%**	8	788
Watertown	1.3%**	5	392
<u>Highest</u>			
Weymouth	8.2%	57	692
Quincy	4.4%**	50	1136,
Somerville	5.4%**	49	901

Statistically different from state (p ≤.05)– Red (*) Statistically worse than state- Green (**) statistically better than state
Source: MDPH, Health Information, Statistics, Research and Evaluation Bureau, Research & Epidemiology Program

Infants Delivered by C-Section Metrowest Region and Massachusetts: 1990-2005

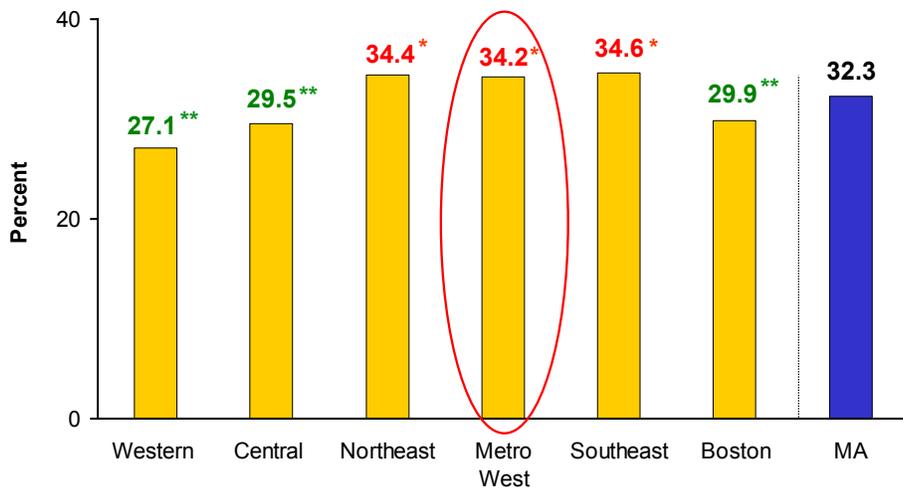
36



Statistically different from state ($p \leq .05$)– Red (*) Statistically higher than state- Green (**) statistically lower than state
Source: MDPH, Health Information, Statistics, Research and Evaluation Bureau, Research & Epidemiology Program

Infants Delivered by C-Section by EOHHS Regions Massachusetts: 2005

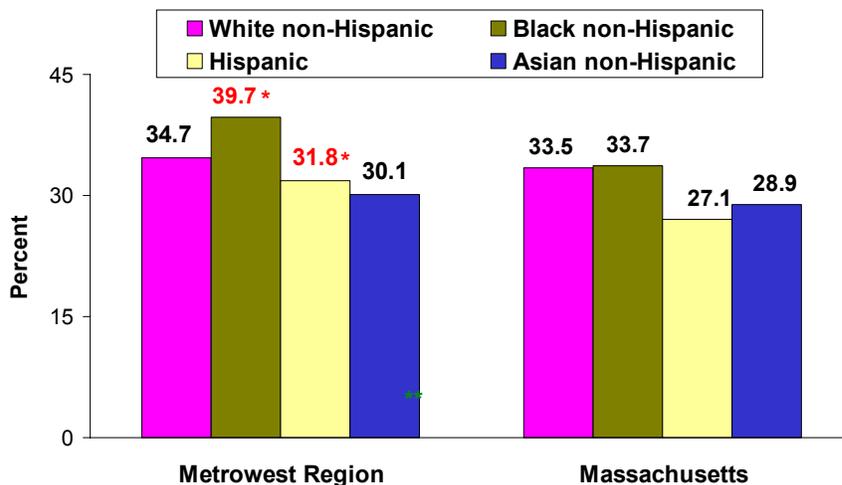
37



Statistically different from state ($p \leq .05$)– Red (*) Statistically worse than state- Green (**) statistically better than state
Source: MDPH, Health Information, Statistics, Research and Evaluation Bureau, Research & Epidemiology Program

Percent of Cesarean Deliveries by Race and Ethnicity Metrowest Region and Massachusetts : 2005

38

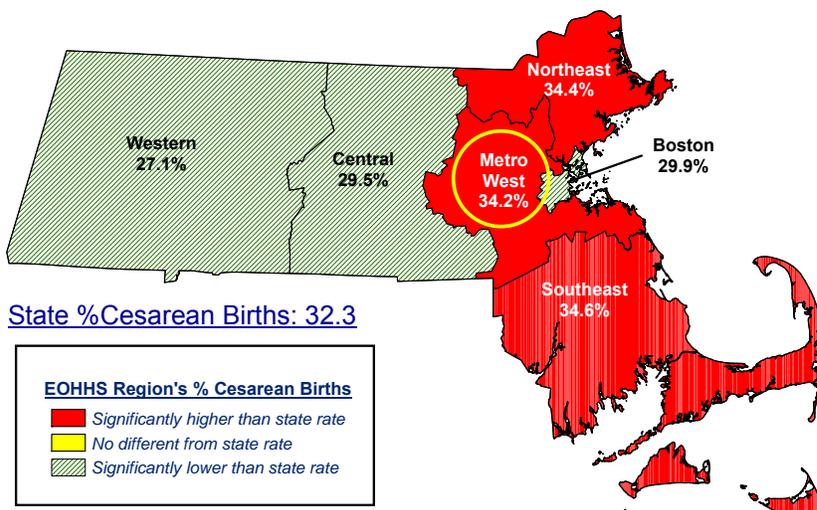


Statistically different from state (p ≤.05)– Red (*) Statistically higher than state- Green (**) statistically lower than state

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

Percentage of Cesarean Births by Executive Office of Health and Human Service (EOHHS) Regions, Massachusetts Births 2005

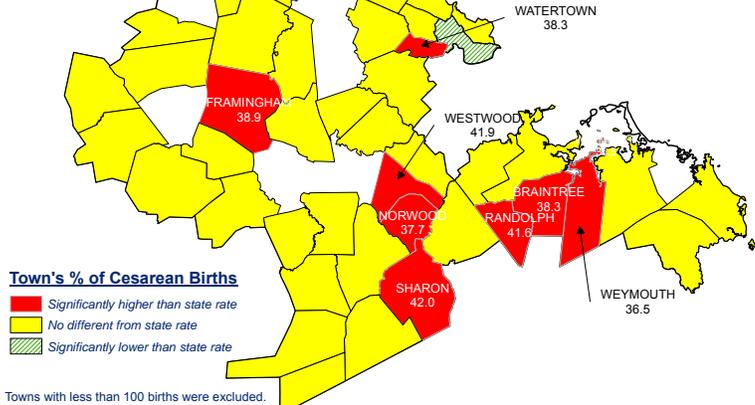
39



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

Percent of Cesarean Deliveries by City/Town Metrowest Region: 2005

% Cesarean Births
 State: 32.3%
 Metrowest: 34.2%*



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

Summary Birth Indicators by EOHHS Regions, Massachusetts:2005

Indicator (as % of race group births)	MA Total (n=76,824)	Western (n=8,935)	Central (n=10,532)	Northeast (n=15,939)	Metro West (n=17,093)	South East (n=14,681)	Boston (n=9,644)
Adequate Prenatal Care (Kotelchuck index)	84.0	79.5	85.4	82.0	87.5	83.6	84.3
C-section deliveries	32.3	27.1	29.5	34.4	34.2	34.6	29.9
Low Birth weight (<5.5 lb)	7.9	8.2	7.5	7.6	7.1	8.3	9.4
Breastfeeding	79.3	68.7	79.5	77.6	88.4	71.5	86.9
Public Pay for Prenatal Care	32.6	47.4	27.9	33.7	17.2	34.7	46.4
Smoking during pregnancy	7.1	13.5	7.6	7.2	3.2	10.2	3.9

■ Better Outcome (significantly different from state)
 ■ Worse Outcome (significantly different from state)

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

Summary Birth Indicators by EOHHS Regions

Indicator	MA Total	Western	Central	Northeast	Metro West	South East	Boston
Infant Mortality Rate (2002-2005) (infant deaths per 1000 live births)	4.9	5.6	5.4	4.7	4.0	4.8	5.7
Teen birth rate (2005) (births to women ages 15-19 per 1000 women ages 15-19)	21.7	31.0	22.9	23.0	8.3	23.1	29.4

■ Better Outcome (significantly different from state)
 ■ Worse Outcome (significantly different from state)

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

LEADING CAUSES OF DEATH

Leading Causes of Death Metrowest Region and Massachusetts:2005

Metrowest Region N=11,437			Massachusetts N=53,776		
Cancer	2,881	25.2%	Heart Disease	13,248	24.6%
Heart Disease	2,771	24.2%	Cancer	13,159	24.5%
Stroke	656	5.7%	Stroke	2,979	5.5%
Chronic Lower Respiratory Disease (formerly COPD)	541	4.7%	Chronic Lower Respiratory Disease (formerly COPD)	2,643	4.9%
Influenza and pneumonia	423	3.7%	Influenza and pneumonia	1,932	3.6%
Unintentional Injuries	344	3.0%	Unintentional Injuries	1,883	3.5%
Alzheimer's	341	3.0%	Alzheimer's	1,635	3.0%
Nephritis	302	2.6%	Nephritis	1,403	2.6%
Diabetes	265	2.3%	Diabetes	1,271	2.4%
Septicemia	221	1.9%	Septicemia	982	1.8%

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

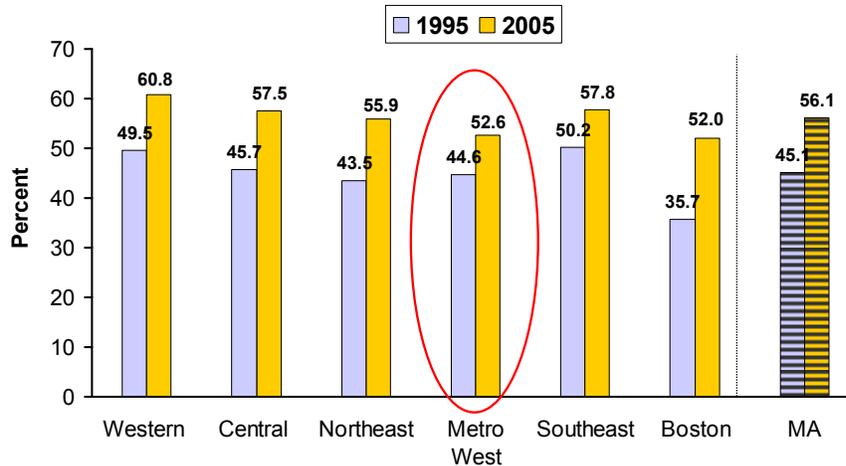
CHRONIC DISEASE OUTCOMES AND OVERWEIGHT/OBESITY

Thresholds for Defining Overweight and Obesity

<u>Height</u>	<u>Overweight</u> BMI 25.0-29.9	<u>Obesity</u> BMI > 30
5'	128 lbs.	153 lbs.
5'2"	136	164
5'4"	145	174
5'6"	155	186
5'8"	164	197
6'	184	221
6'2"	195	234

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

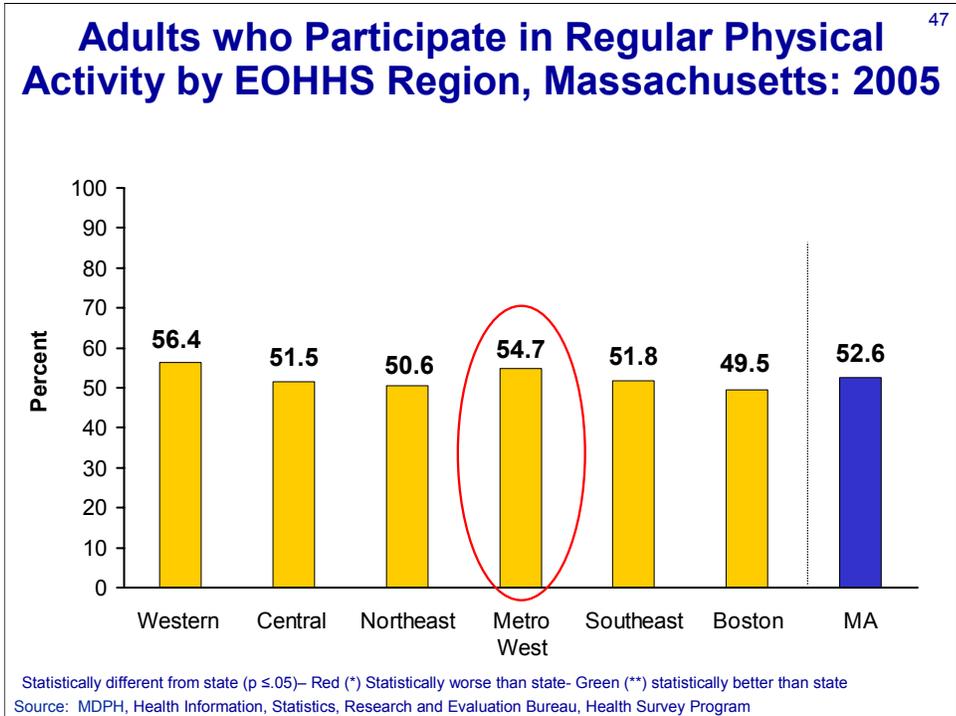
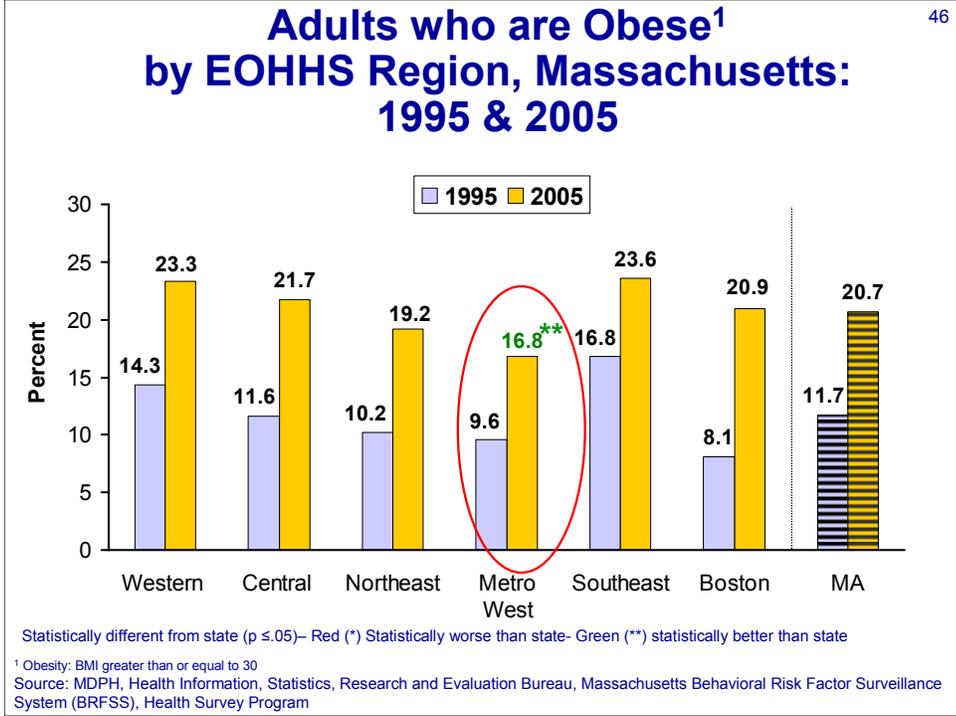
Adults who are Overweight¹ by EOHHS Region, Massachusetts: 1995 & 2005



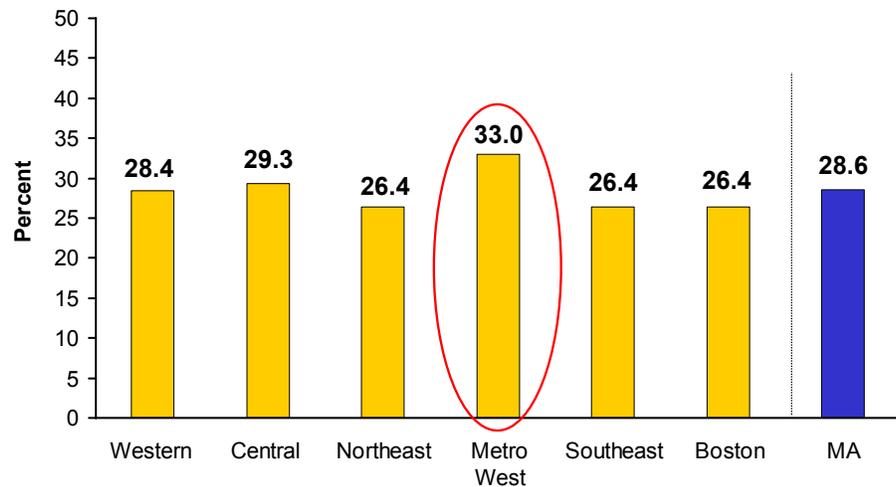
Statistically different from state ($p \leq .05$) – Red (*) Statistically worse than state- Green (**) statistically better than state

¹ Obesity: BMI greater than or equal to 25

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



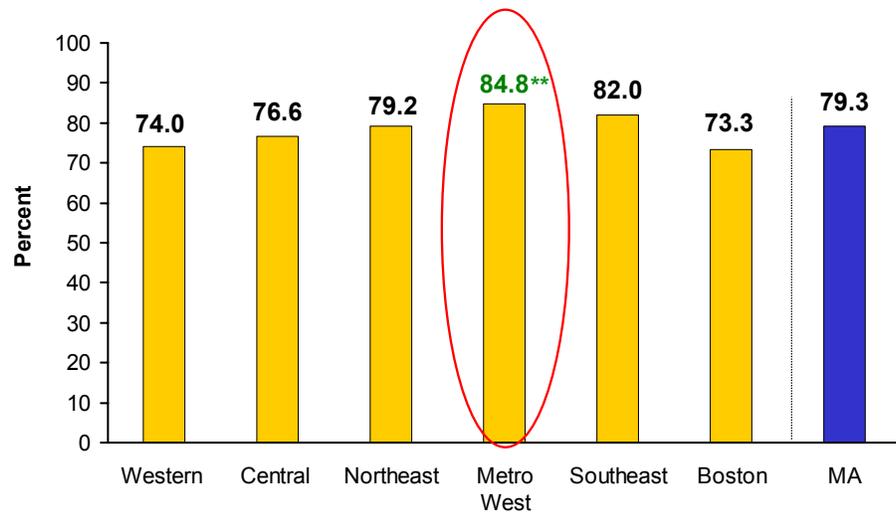
Adults who have 5+ Servings of Fruit or Vegetables by EOHHS Region, Massachusetts: 2005 ⁴⁸



Statistically different from state ($p \leq .05$)– Red (*) Statistically worse than state- Green (**) statistically better than state

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

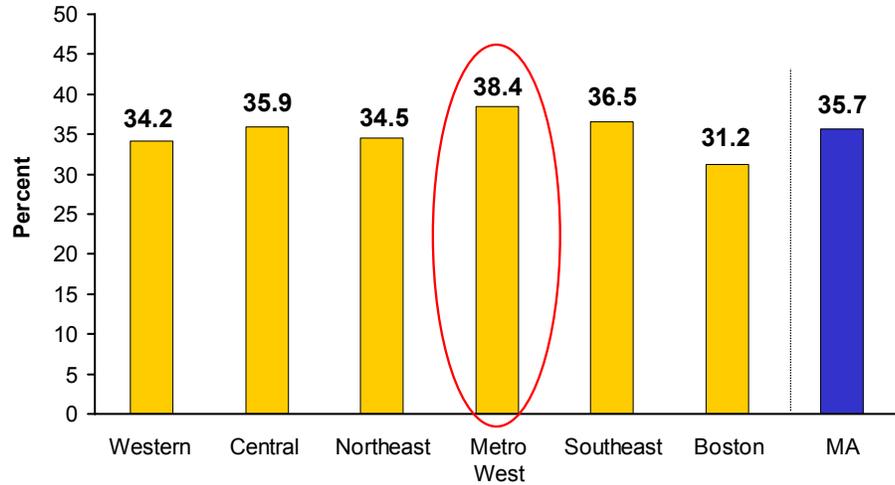
Adults who had their cholesterol checked in Past 5 Years by EOHHS Region Massachusetts: 2005 ⁴⁹



Statistically different from state ($p \leq .05$)– Red (*) Statistically worse than state- Green (**) statistically better than state

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

Adults who were told by a health care provider that they have high cholesterol¹ by EOHHS Region Massachusetts: 2005

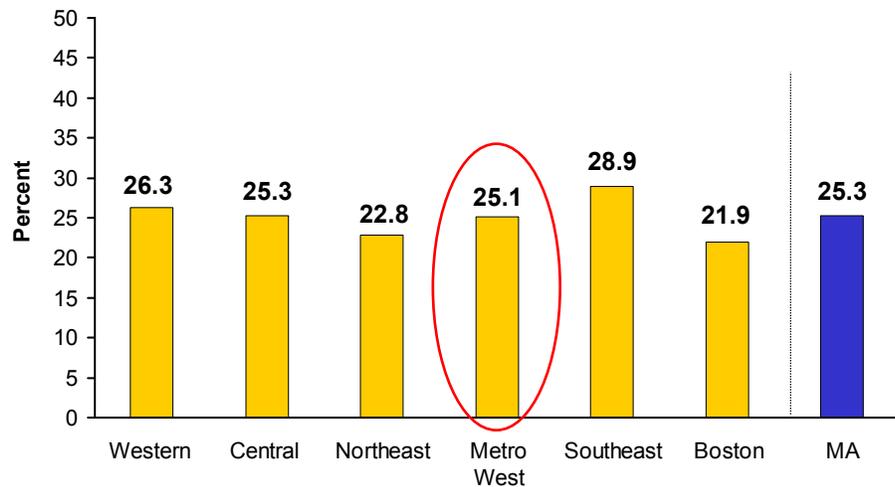


* Statistically Significant different from state ($p \leq .05$)

¹ Among those who reported having their cholesterol checked

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

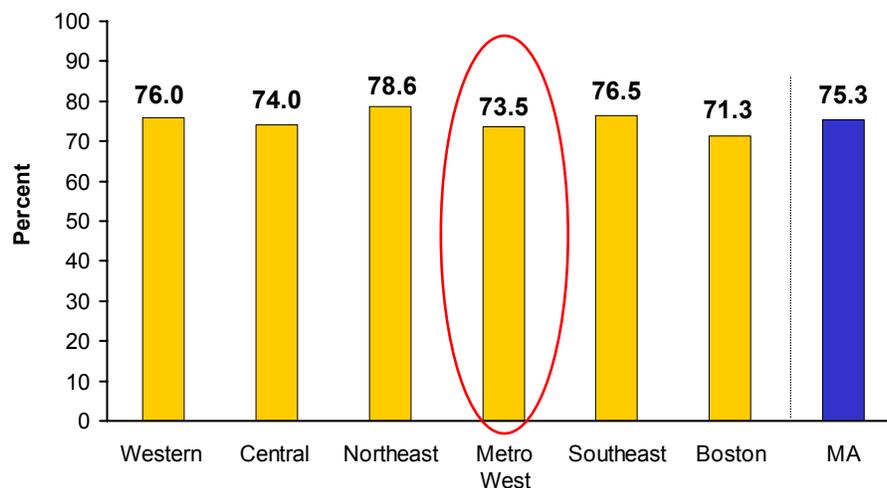
Adults who were told by a health care provider to have high blood pressure by EOHHS Region Massachusetts: 2005



Statistically different from state ($p \leq .05$)– Red (*) Statistically worse than state- Green (**) statistically better than state

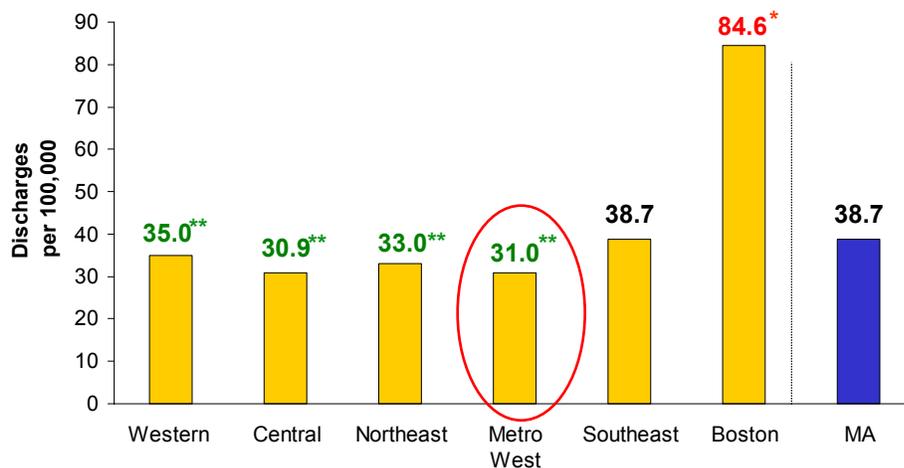
Source: MDPH, Health Information, Statistics, Research and Evaluation Bureau, Health Survey Program

Adults who take Medicine for High Blood Pressure⁵² by EOHHS Region Massachusetts: 2005



* Statistically Significant different from state ($p \leq .05$) ¹ Among those who reported having high blood pressure
Source: MDPH, Health Information, Statistics, Research and Evaluation Bureau, Health Survey Program

Hospital Discharge Rates for Hypertension⁵³ by EOHHS Regions and Massachusetts: 2003-2005

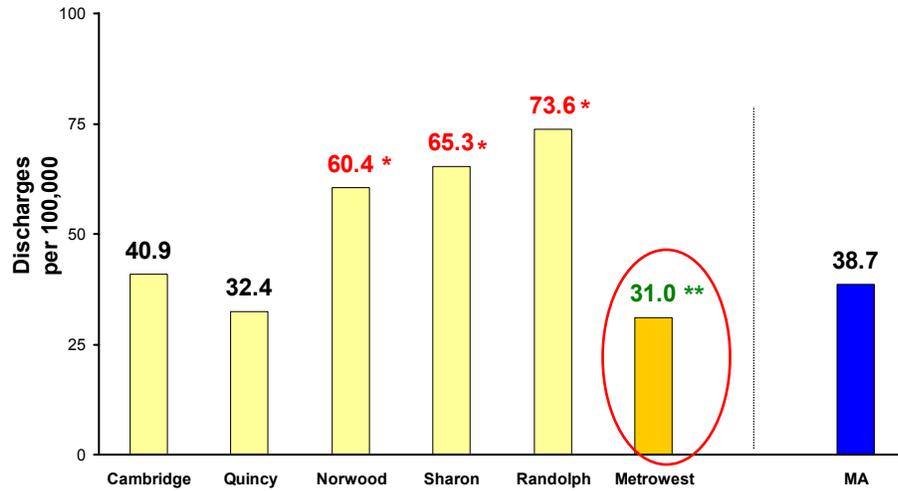


Statistically different from state ($p \leq .05$)– Red (*) Statistically worse than state- Green (**) statistically better than state

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 Hypertension by Metrowest Cities and Massachusetts: 2003-2005

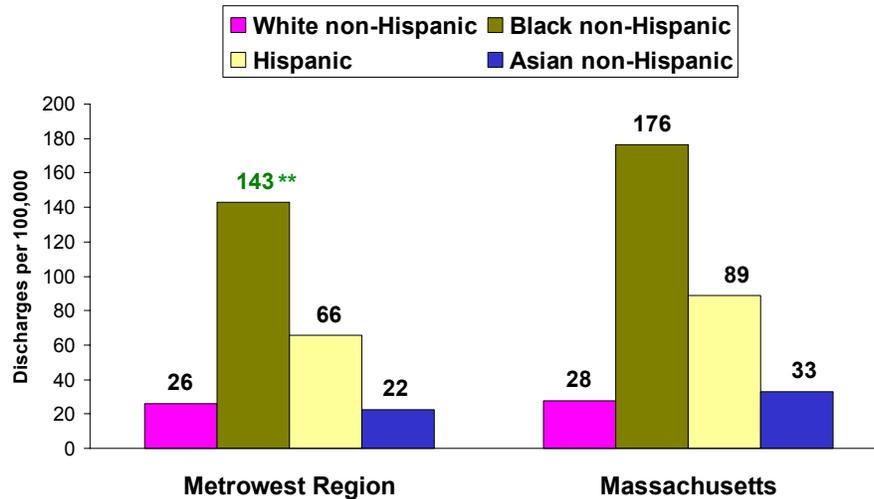


Statistically different from state (p ≤ .05)– Red (*) Statistically worse than state- Green (**) statistically better than state

Age-adjusted to the 2000 US standard population.

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

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



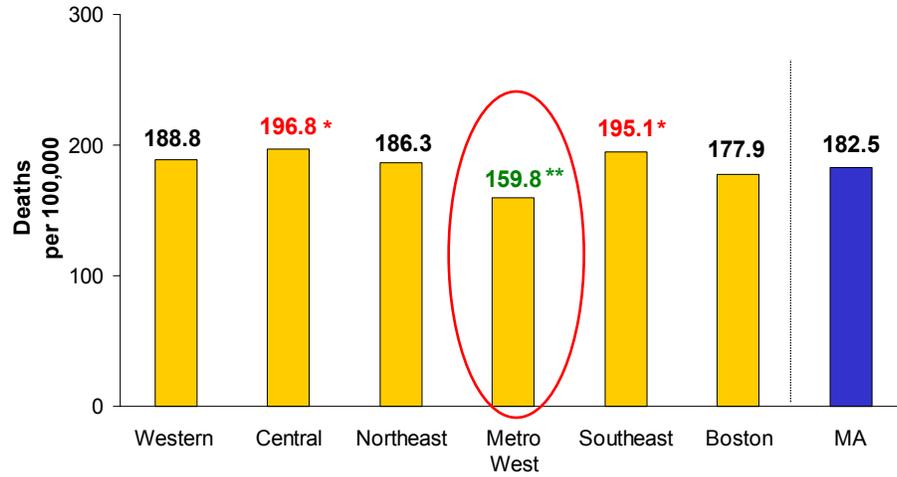
Statistically different from state (p ≤ .05)– Red (*) Statistically worse than state- Green (**) statistically better than state

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 Mortality Rates by EOHHS Region Massachusetts: 2003-2005

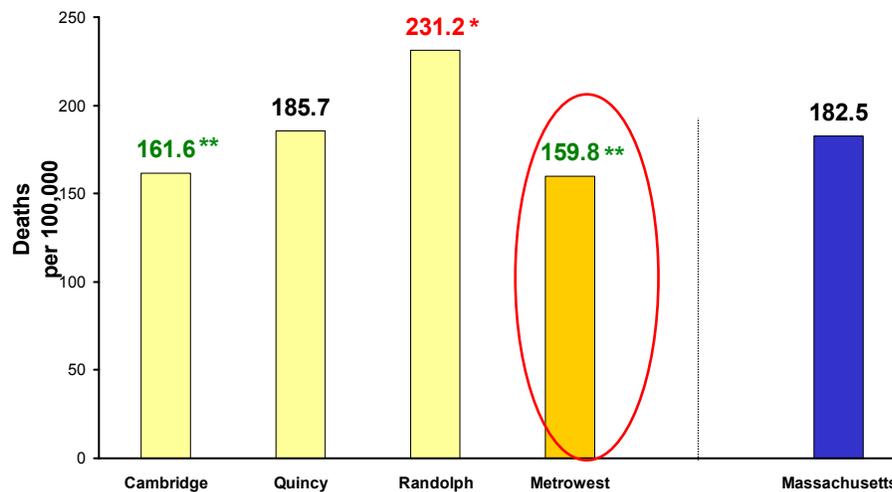
56



Statistically different from state ($p \leq .05$)– Red (*) Statistically worse than state- Green (**) statistically better than state
Age-adjusted to the 2000 US standard population.
Source: MDPH, Health Information, Statistics, Research and Evaluation Bureau, Research & Epidemiology Program

Heart Disease Mortality Rate by Metrowest Cities and Massachusetts: 2003-2005

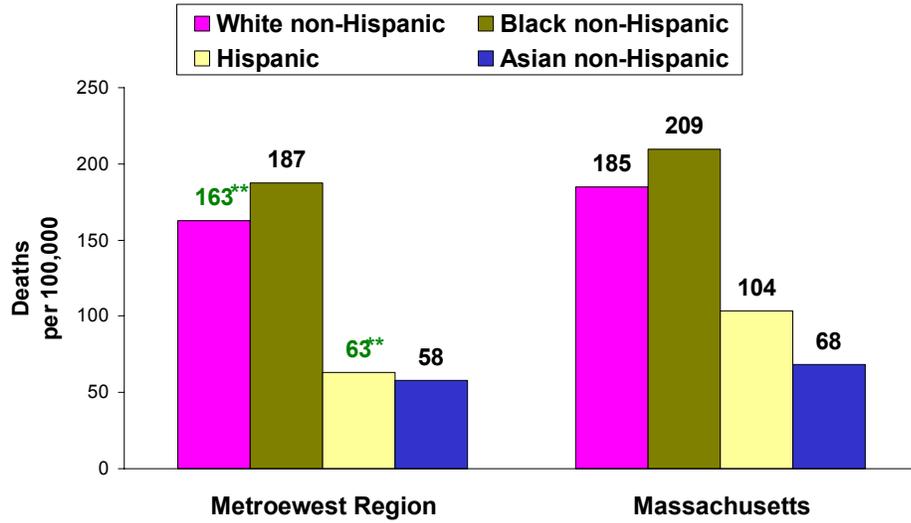
57



Statistically different from state ($p \leq .05$)– Red (*) Statistically worse than state- Green (**) statistically better than state
Age-adjusted to the 2000 US standard population
Source: MDPH, Health Information, Statistics, Research and Evaluation Bureau, Research & Epidemiology Program

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

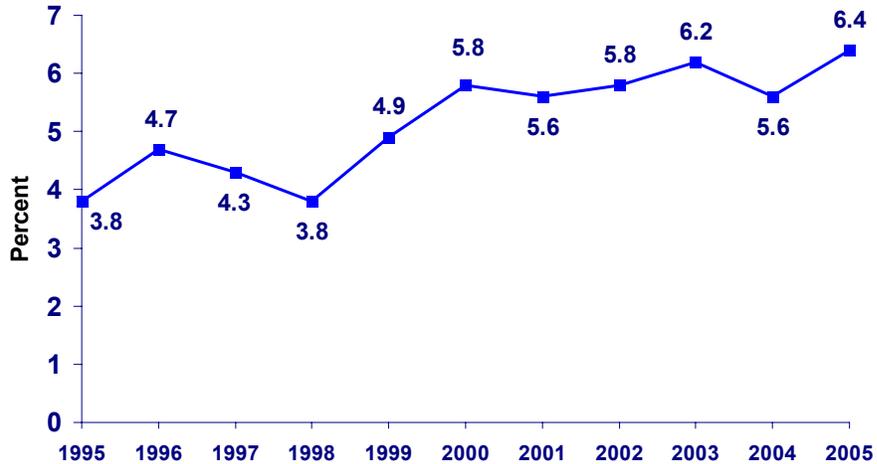
58



Statistically different from state ($p \leq .05$)– Red (*) Statistically worse than state- Green (**) statistically better than state
Age-adjusted to the 2000 US standard population.
Source: MDPH, Health Information, Statistics, Research and Evaluation Bureau, Research & Epidemiology Program

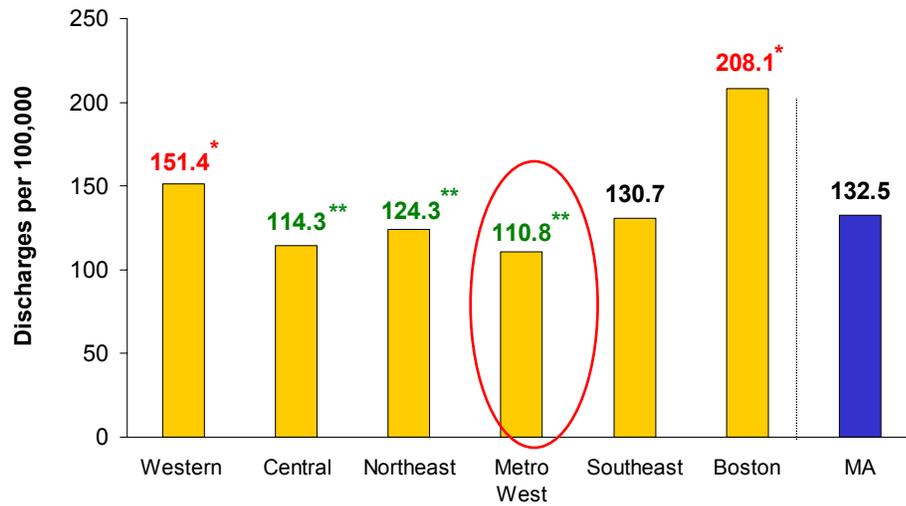
Prevalence of Diabetes Massachusetts: 1994-2005

59



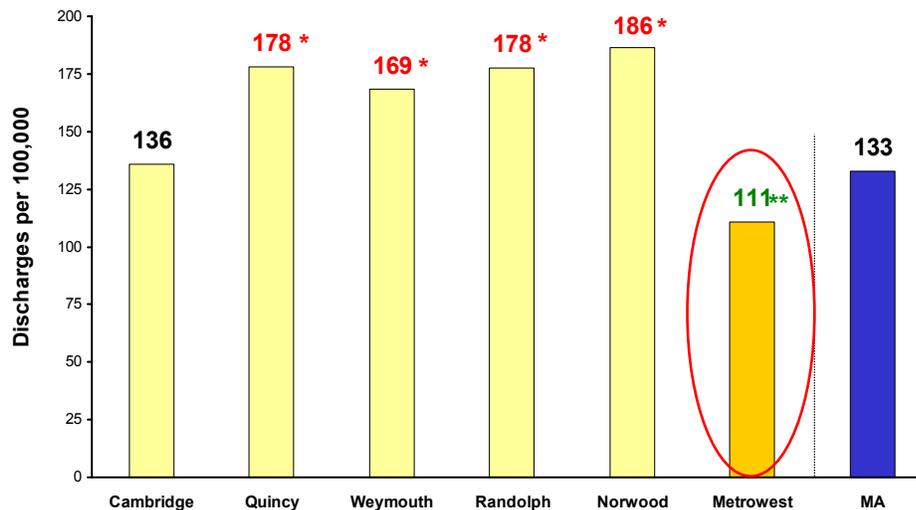
Source: MDPH, Health Information, Statistics, Research and Evaluation Bureau, Massachusetts Behavioral Risk Factor Surveillance System (BRFSS), Health Survey Program

Diabetes Hospital Discharges by EOHHS Region, Massachusetts: 2003-2005



Statistically different from state ($p \leq .05$)– Red (*) Statistically worse than state- Green (**) statistically better than state
 Age-adjusted to the 2000 US standard population.
 Source: Division of Health Care Finance and Policy. Calendar Year 2003-2005. Inpatient Hospital Discharge Database

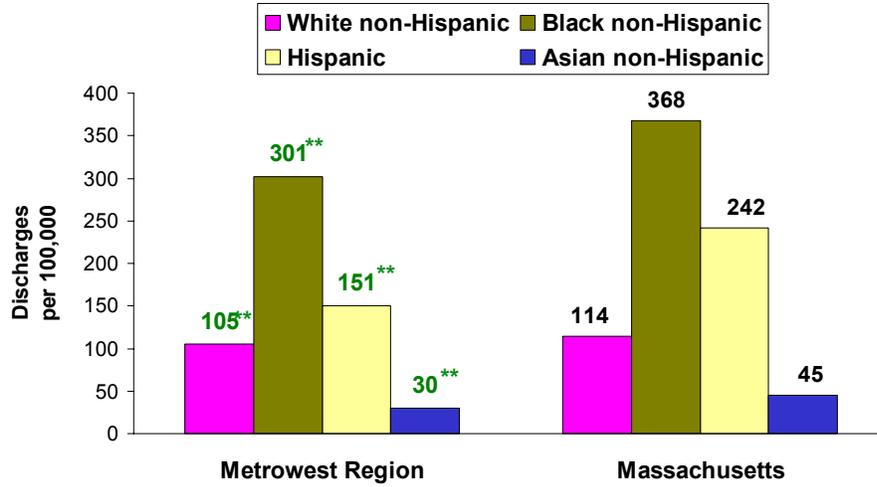
Diabetes Hospital Discharges by Metrowest Cities and Massachusetts: 2003-2005



Statistically different from state ($p \leq .05$)– Red (*) Statistically worse than state- Green (**) statistically better than state
 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 Metrowest Region Massachusetts: 2003-2005

62

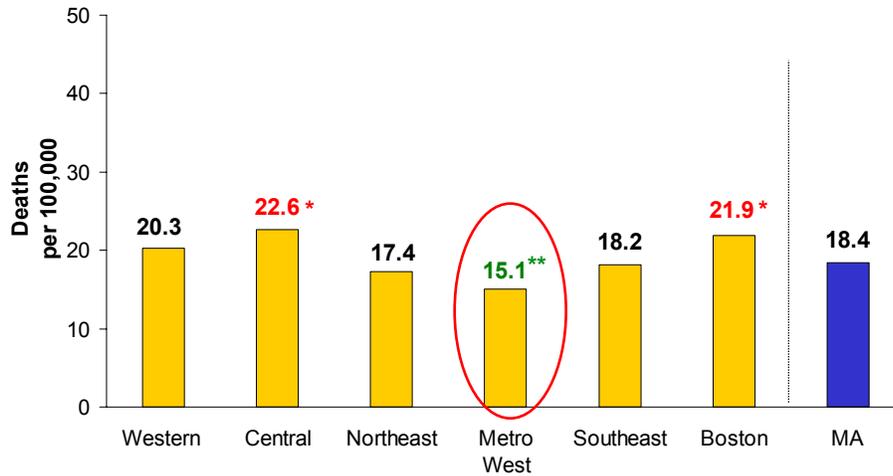


Statistically different from state ($p \leq .05$)– Red (*) Statistically worse than state- Green (**) statistically better than state
Age-adjusted to the 2000 US standard population.

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

Diabetes Mortality Rates by EOHS Region Massachusetts: 2003-2005

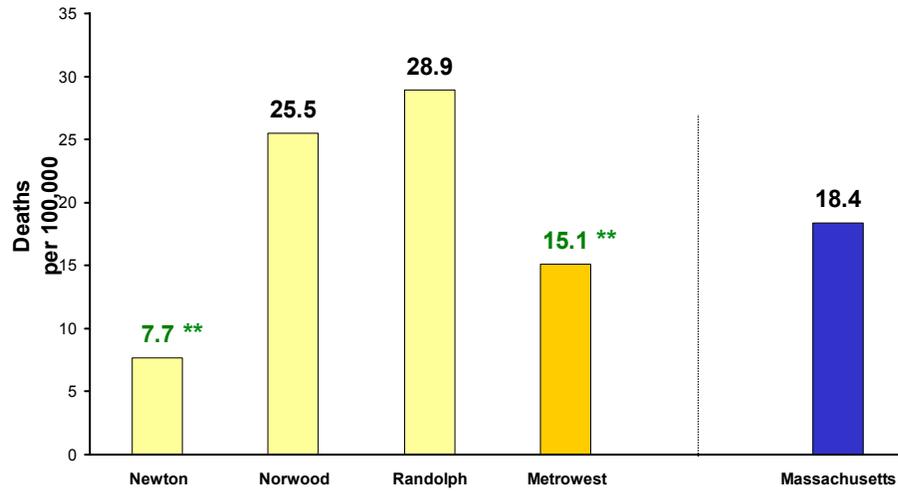
63



Statistically different from state ($p \leq .05$)– Red (*) Statistically worse than state- Green (**) statistically better than state
Age-adjusted to the 2000 US standard population.

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

Diabetes Mortality Rate by Metrowest Cities and Massachusetts: 2003-2005

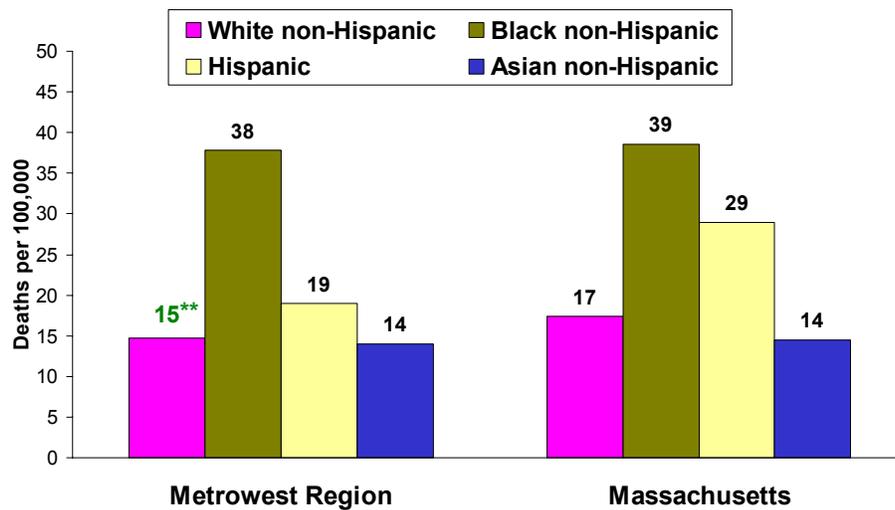


Statistically different from state (p ≤ .05)– Red (*) Statistically worse than state- Green (**) statistically better than state

Age-adjusted to the 2000 US standard population

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

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



Statistically different from state (p ≤ .05)– Red (*) Statistically worse than state- Green (**) statistically better than state

Age-adjusted to the 2000 US standard population.

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

Summary Indicators for Overweight/Obesity by EOHS Regions, Massachusetts:2005

66

Indicator	MA Total	Western	Central	Northeast	Metro West	South East	Boston
% Obese Adults	20.7	23.3	21.7	19.2	16.8	23.6	20.9
% Adults Participation in regular PA	52.6	56.4	51.5	50.6	54.7	51.8	49.5
% Adults with 5+ servings fruits/vegetables	28.6	28.4	29.3	26.4	33.0	26.4	26.4
% Adults who had cholesterol checked	79.3	74.0	76.6	79.2	84.8	82.0	73.3
% Adults with high cholesterol	35.7	34.2	35.9	34.5	38.4	36.5	31.2

Better Outcome (significantly different from state) Worse Outcome (significantly different from state)

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

Summary Indicators for Chronic Disease Outcomes by EOHS Regions

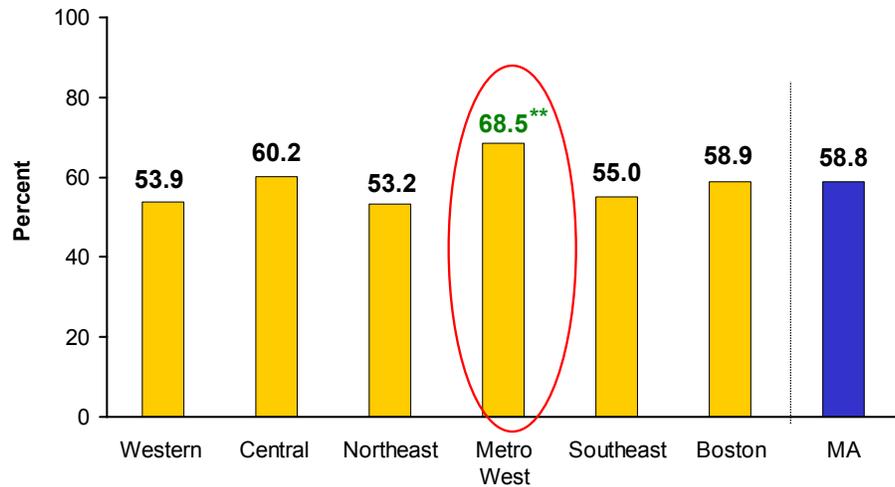
67

Indicator	MA Total	Western	Central	Northeast	Metro West	South East	Boston
% Adults with HBP	25.3	26.3	25.3	22.8	25.1	28.9	21.9
% Adults take HBP medications	75.3	76.0	74.0	78.6	73.5	76.5	71.3
Hypertension Hospital Discharges (2003-2005)	38.7	35.0	30.9	32.9	31.0	38.7	84.6
Heart Disease Death Rate (2003-2005)	182.5	188.8	196.8	186.3	159.8	195.1	177.9
Diabetes Hospital Discharges (2003-2005)	132.5	151.4	114.3	124.3	110.8	130.7	208.1
Diabetes Death Rate (2003-2005)	18.4	20.3	22.6	17.3	15.1	18.2	21.9

Better Outcome (significantly different from state) Worse Outcome (significantly different from state)

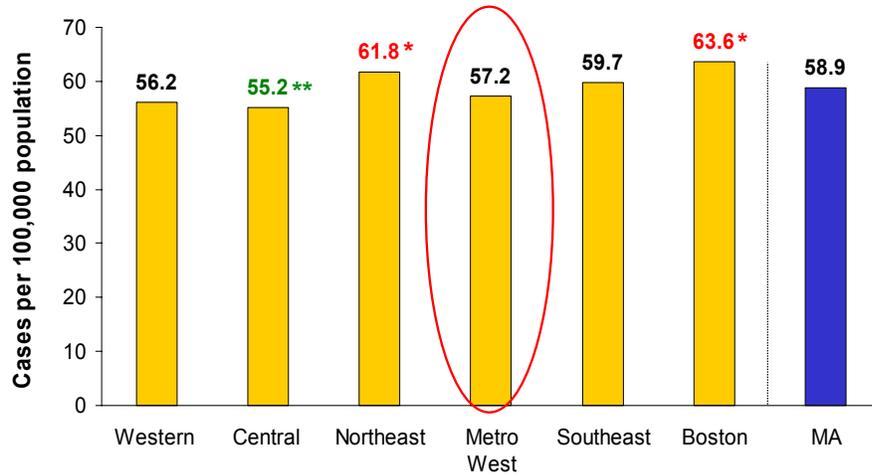
CANCER

Adults Ages 50+ who have had a Sigmoidoscopy⁶⁸ or Colonoscopy in Past 5 Years by EOHS Region Massachusetts: 2005



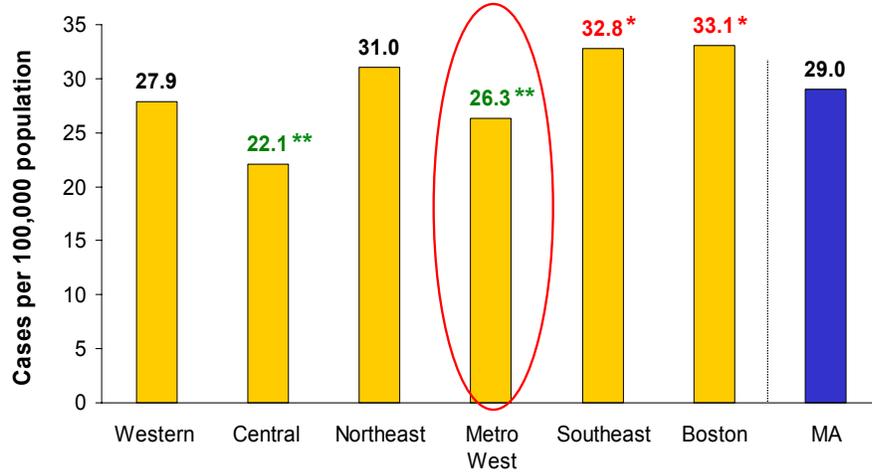
Statistically different from state ($p \leq .05$)– Red (*) Statistically worse than state- Green (**) statistically better than state
 Source: MDPH, Health Information, Statistics, Research and Evaluation Bureau, Health Survey Program

Incidence Rates for Invasive Colorectal Cancer by EOHS Region, Massachusetts: 1999-2003 ⁶⁹



Statistically different from state ($p \leq .05$)– Red (*) Statistically worse than state- Green (**) statistically better than state
 Age-adjusted to the 2000 US standard population.
 Source: MDPH, Health Information, Statistics, Research and Evaluation Bureau, Cancer Registry

Incidence Rates for Early Stage Colorectal Cancer⁷⁰ **MALES** by EOHHS Region, Massachusetts: 1999-2003

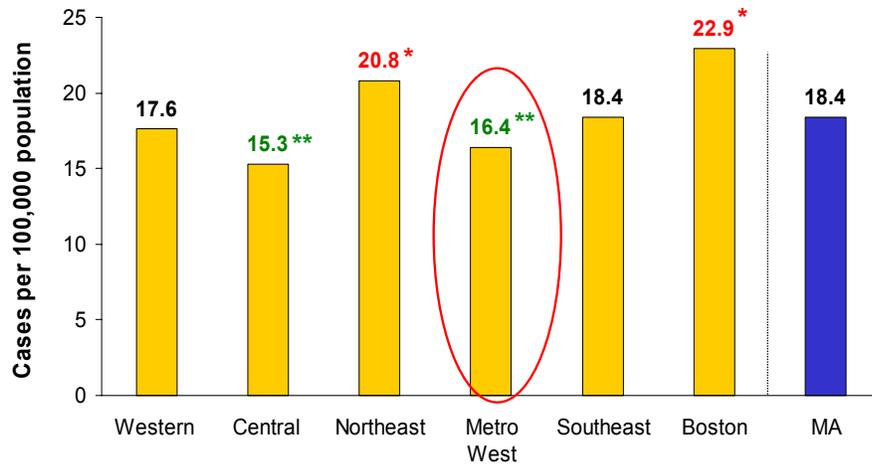


Statistically different from state ($p \leq .05$)– Red (*) Statistically worse than state- Green (**) statistically better than state

Age-adjusted to the 2000 US standard population.

Source: MDPH, Health Information, Statistics, Research and Evaluation Bureau, Cancer Registry

Incidence Rates for Early Stage Colorectal Cancer⁷¹ **FEMALES** by EOHHS Region, Massachusetts: 1999-2003

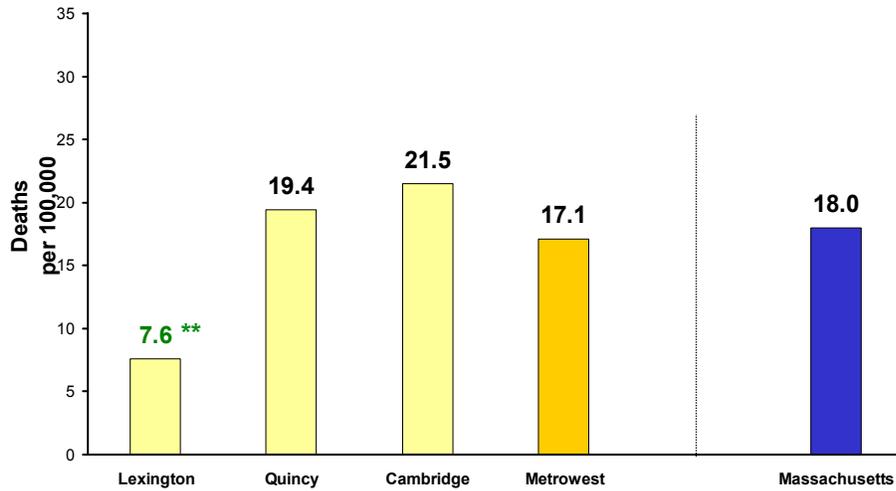


Statistically different from state ($p \leq .05$)– Red (*) Statistically worse than state- Green (**) statistically better than state

Age-adjusted to the 2000 US standard population.

Source: MDPH, Health Information, Statistics, Research and Evaluation Bureau, Cancer Registry

Colorectal Cancer Mortality Rate by Metrowest Cities and Massachusetts: 2003-2005

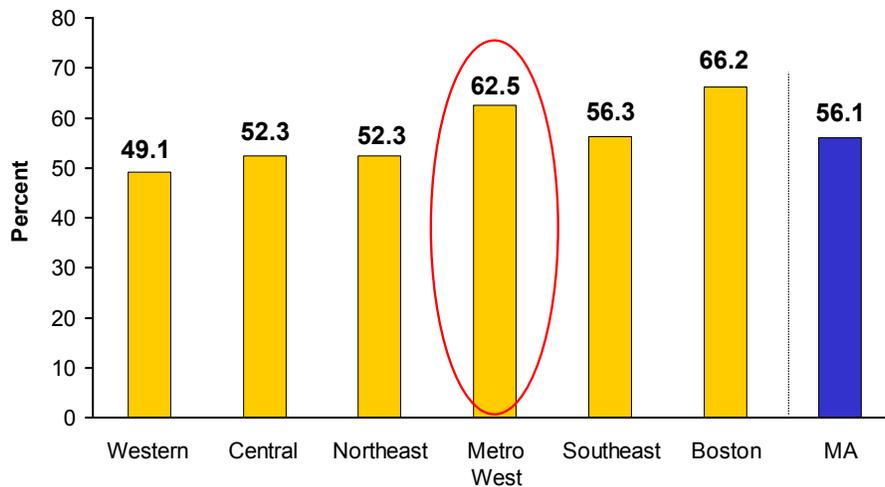


Statistically different from state ($p \leq .05$)– Red (*) Statistically worse than state- Green (**) statistically better than state

Age-adjusted to the 2000 US standard population

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

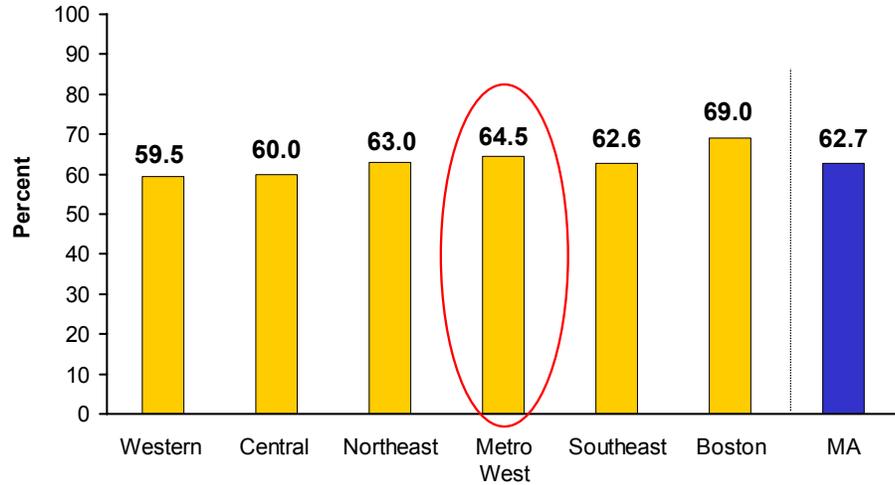
Men Ages 50 and Older who had a Prostate-Specific Antigen Test in the Past Two Years by EOHHS Region, Massachusetts: 2004



Statistically different from state ($p \leq .05$)– Red (*) Statistically worse than state- Green (**) statistically better than state

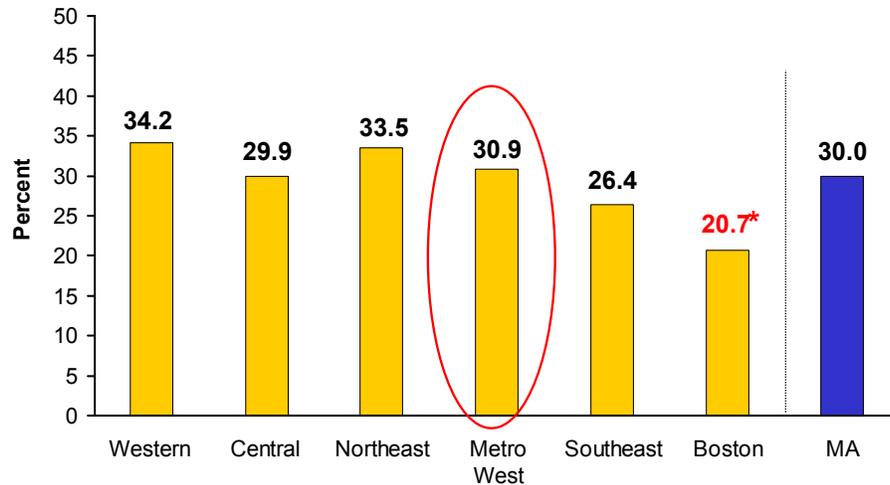
Source: MDPH, Health Information, Statistics, Research and Evaluation Bureau, Health Survey Program

Men Ages 50 and Older who had a Digital Rectal Exam in the Past Two Years by EOHHS Region Massachusetts: 2004 ⁷⁴



Statistically different from state ($p \leq .05$)– Red (*) Statistically worse than state- Green (**) statistically better than state
 Source: MDPH, Health Information, Statistics, Research and Evaluation Bureau, Health Survey Program

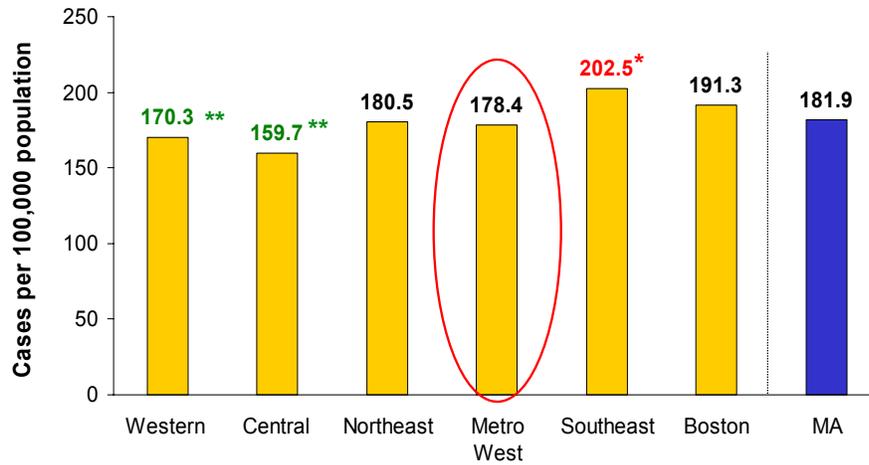
Adults Ages 50 and Older who had a Blood Stool Test in the Past Two Years by EOHHS Region Massachusetts: 2005 ⁷⁵



Statistically different from state ($p \leq .05$)– Red (*) Statistically worse than state- Green (**) statistically better than state
 Source: MDPH, Health Information, Statistics, Research and Evaluation Bureau, Health Survey Program

Incidence Rates for Invasive Prostate Cancer by EOHHS Region, Massachusetts: 1999-2003

76



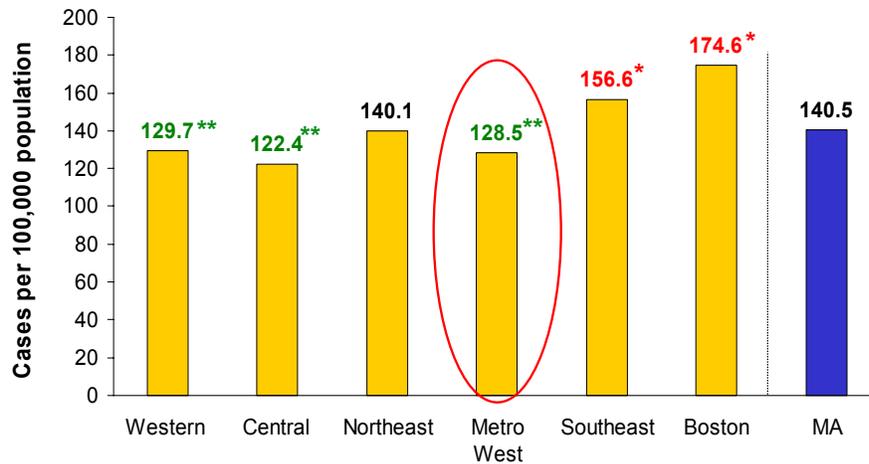
Statistically different from state ($p \leq .05$)– Red (*) Statistically worse than state- Green (**) statistically better than state

Age-adjusted to the 2000 US standard population.

Source: MDPH, Health Information, Statistics, Research and Evaluation Bureau, Cancer Registry

Incidence Rates for Early Stage Prostate Cancer by EOHHS Region, Massachusetts: 1999-2003

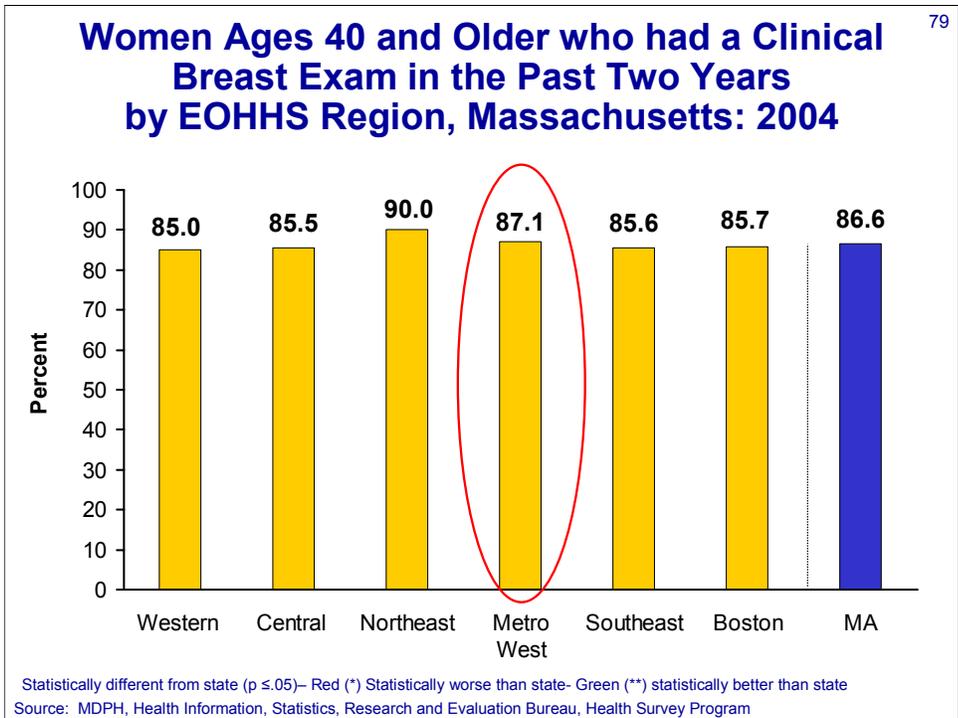
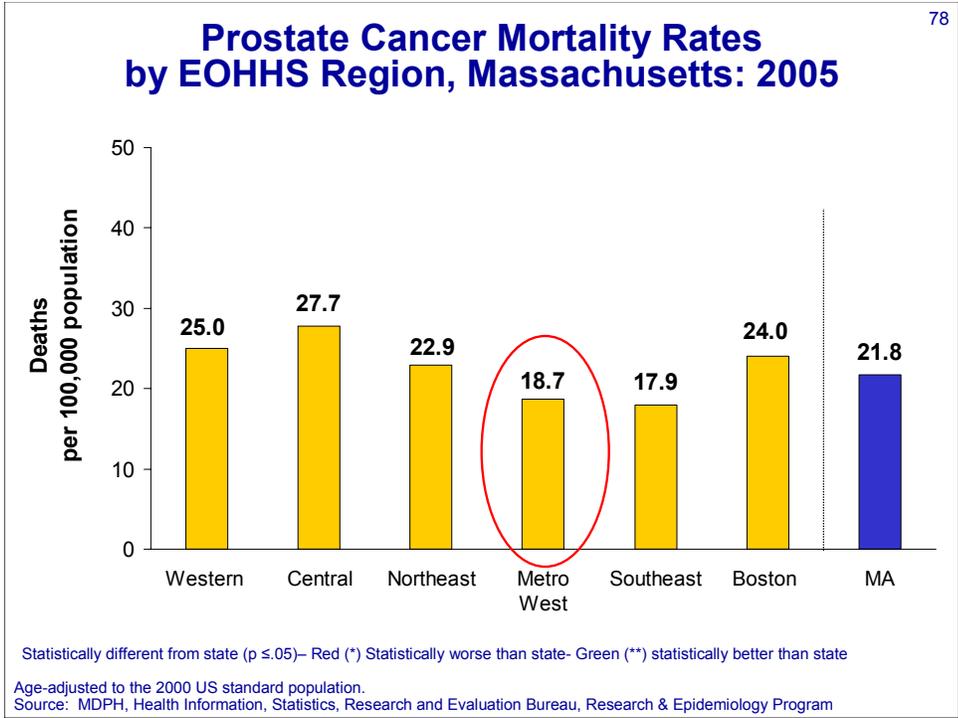
77



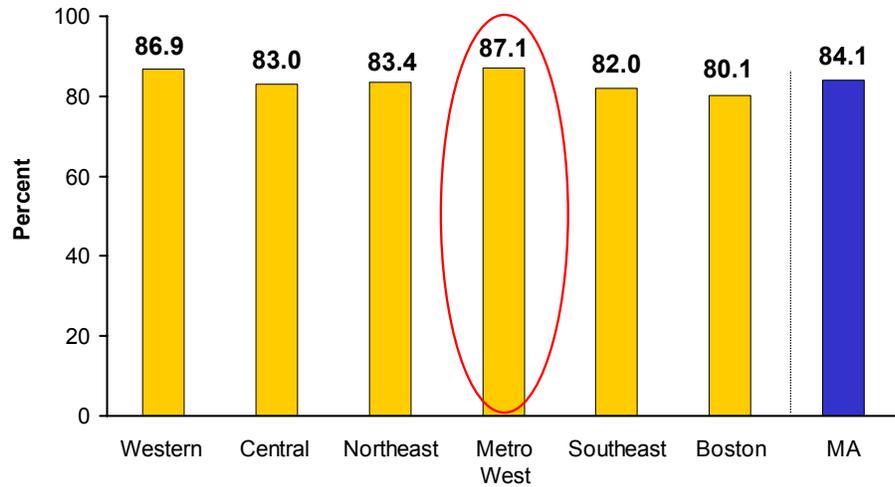
Statistically different from state ($p \leq .05$)– Red (*) Statistically worse than state- Green (**) statistically better than state

Age-adjusted to the 2000 US standard population.

Source: MDPH, Health Information, Statistics, Research and Evaluation Bureau, Cancer Registry

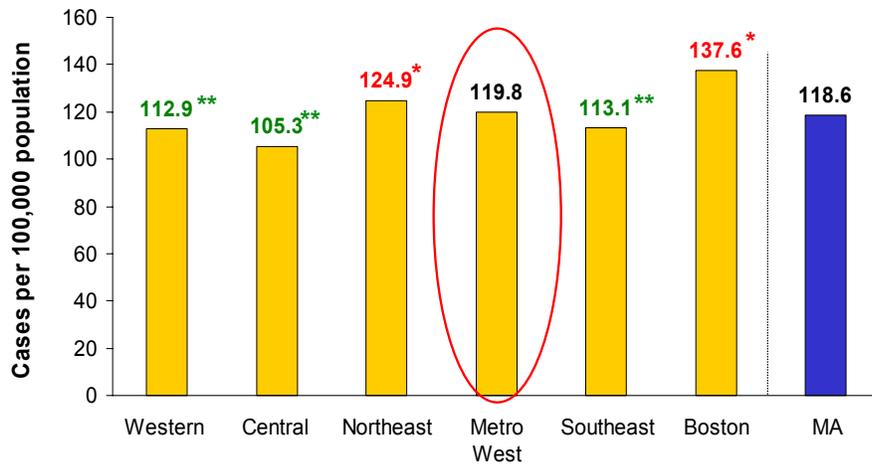


Women Ages 40+ who have had a mammography in Past 2 Years by EOHHS Region Massachusetts: 2005 ⁸⁰



Statistically different from state ($p \leq .05$)– Red (*) Statistically worse than state- Green (**) statistically better than state
 Source: MDPH, Health Information, Statistics, Research and Evaluation Bureau, Health Survey Program

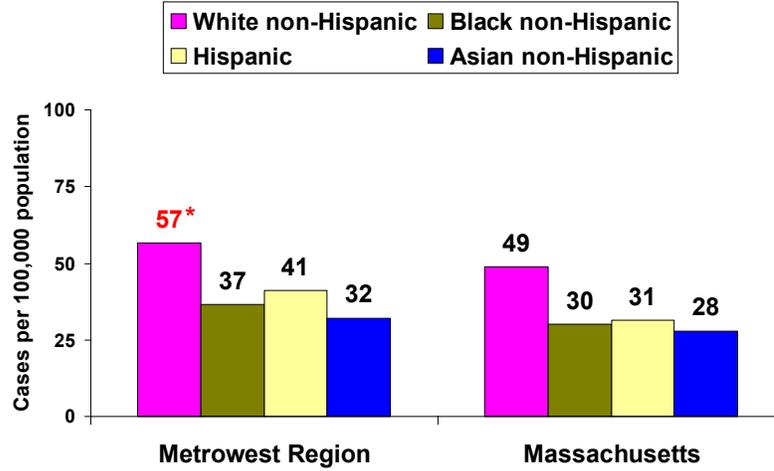
Incidence Rates for Early Stage Female Breast Cancer by EOHHS Region, Massachusetts: 1999-2003 ⁸¹



Statistically different from state ($p \leq .05$)– Red (*) Statistically worse than state- Green (**) statistically better than state
 Age-adjusted to the 2000 US standard population.
 Source: MDPH, Health Information, Statistics, Research and Evaluation Bureau, Cancer Registry

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

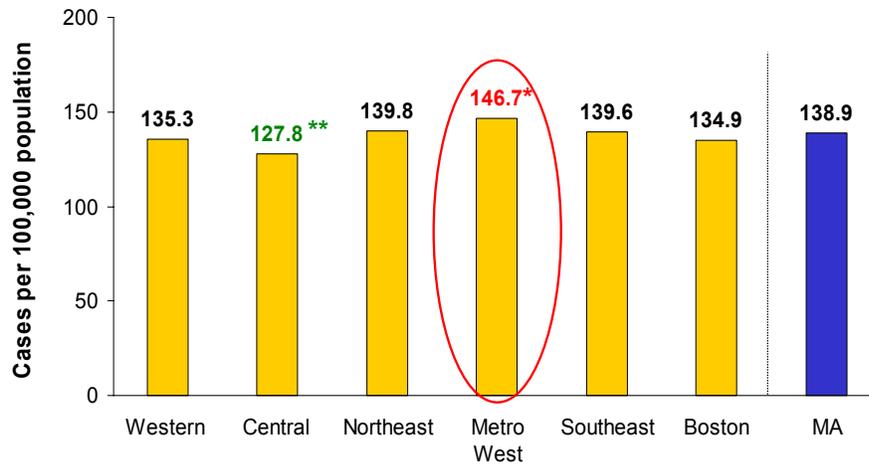
82



Statistically different from state ($p \leq .05$)– Red (*) Statistically worse than state- Green (**) statistically better than state
 Age-adjusted to the 2000 US standard population.
 Source: MDPH, Health Information, Statistics, Research and Evaluation Bureau, Cancer Registry

Incidence Rates for Invasive Female Breast Cancer by EOHHS Region, Massachusetts: 1999-2003

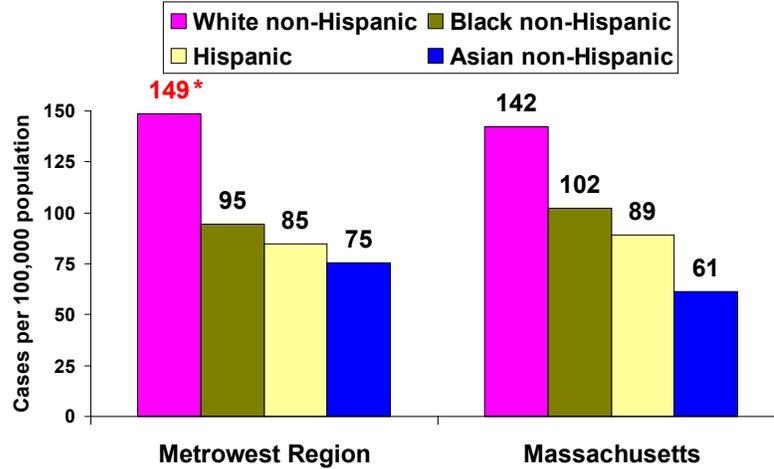
83



Statistically different from state ($p \leq .05$)– Red (*) Statistically worse than state- Green (**) statistically better than state
 Age-adjusted to the 2000 US standard population.
 Source: MDPH, Health Information, Statistics, Research and Evaluation Bureau, Cancer Registry

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

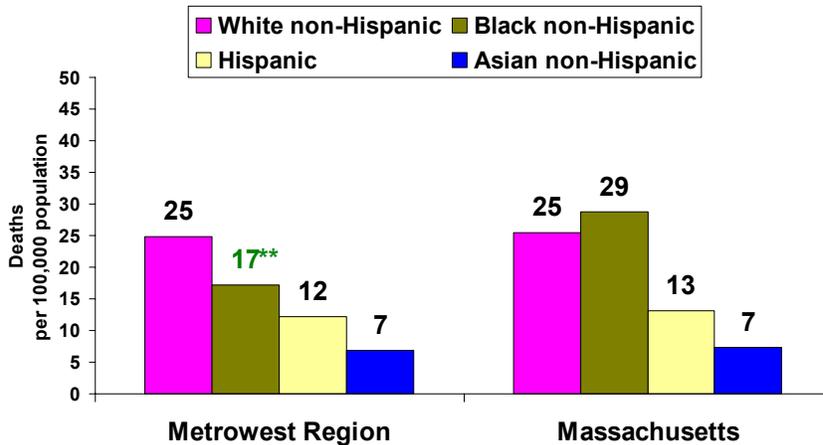
84



Statistically different from state ($p \leq .05$)– Red (*) Statistically worse than state- Green (**) statistically better than state
 Age-adjusted to the 2000 US standard population.
 Source: MDPH, Health Information, Statistics, Research and Evaluation Bureau, Cancer Registry

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

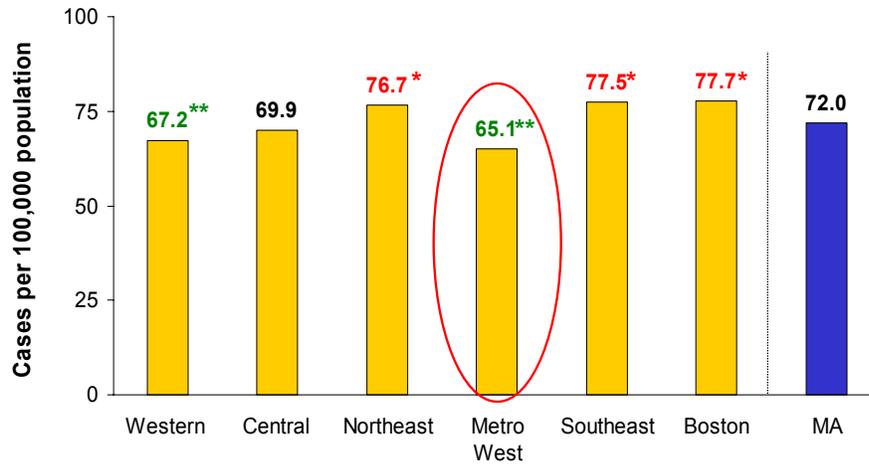
85



Statistically different from state ($p \leq .05$)– Red (*) Statistically worse than state- Green (**) statistically better than state
 Age-adjusted to the 2000 US standard population.
 Source: Division of Health Care Finance and Policy, Calendar Year 2003- 2005, Hospital Discharges

Incidence Rates for Invasive Lung Cancer by EOHHS Region, Massachusetts: 1999-2003

86



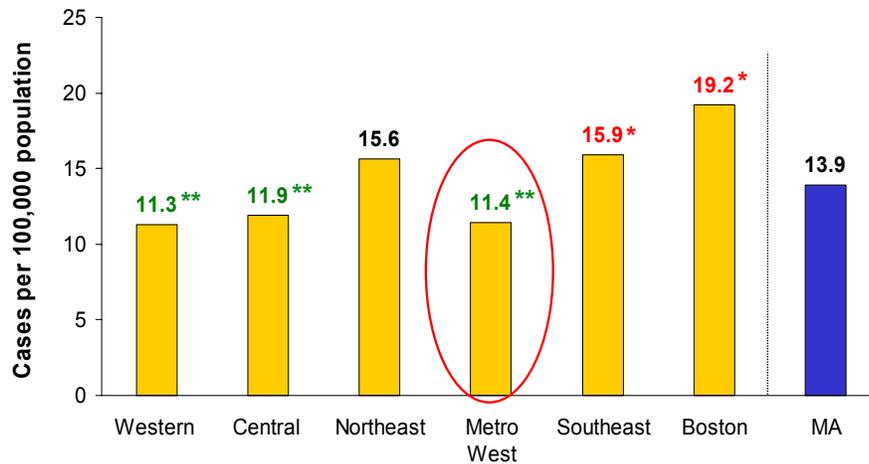
Statistically different from state ($p \leq .05$)– Red (*) Statistically worse than state- Green (**) statistically better than state

Age-adjusted to the 2000 US standard population.

Source: MDPH, Health Information, Statistics, Research and Evaluation Bureau, Cancer Registry

Incidence Rates for Early Stage Lung Cancer MALES by EOHHS Region, Massachusetts: 1999-2003

87



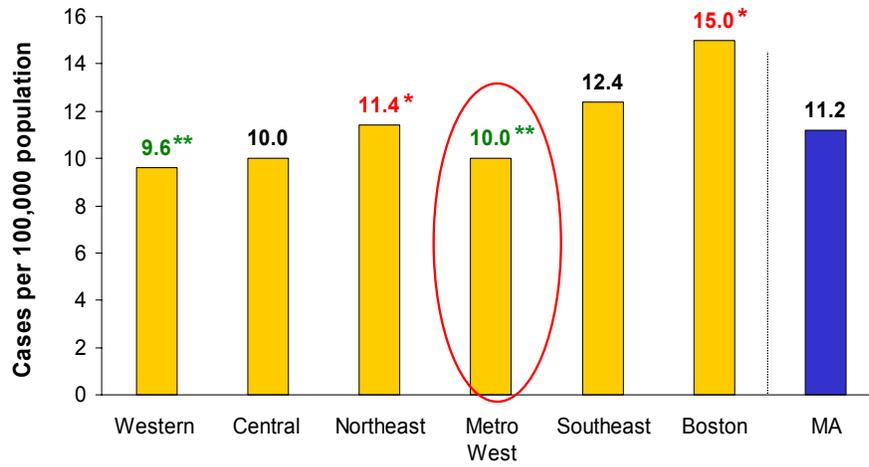
Statistically different from state ($p \leq .05$)– Red (*) Statistically worse than state- Green (**) statistically better than state

Age-adjusted to the 2000 US standard population.

Source: MDPH, Health Information, Statistics, Research and Evaluation Bureau, Cancer Registry

Incidence Rates for Early Stage Lung Cancer FEMALES by EOHHS Region, Massachusetts: 1999-2003

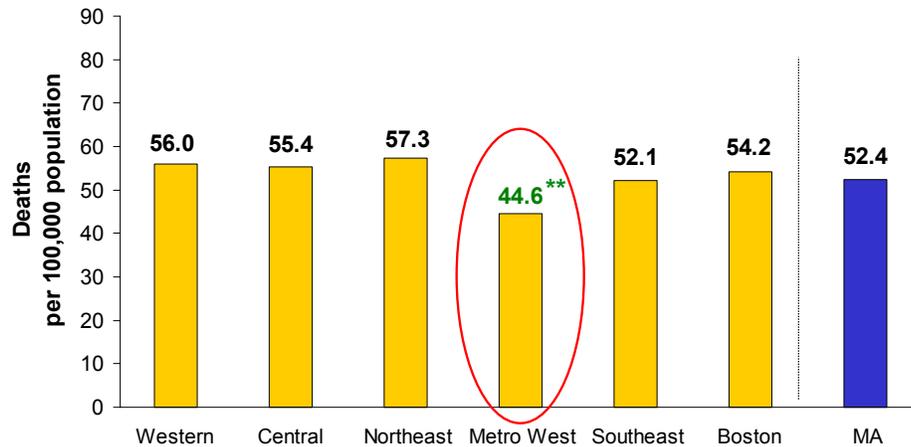
88



Statistically different from state ($p \leq .05$)– Red (*) Statistically worse than state- Green (**) statistically better than state
Age-adjusted to the 2000 US standard population.
Source: MDPH, Health Information, Statistics, Research and Evaluation Bureau, Cancer Registry

Lung Cancer Mortality Rates by EOHHS Region, Massachusetts: 2005

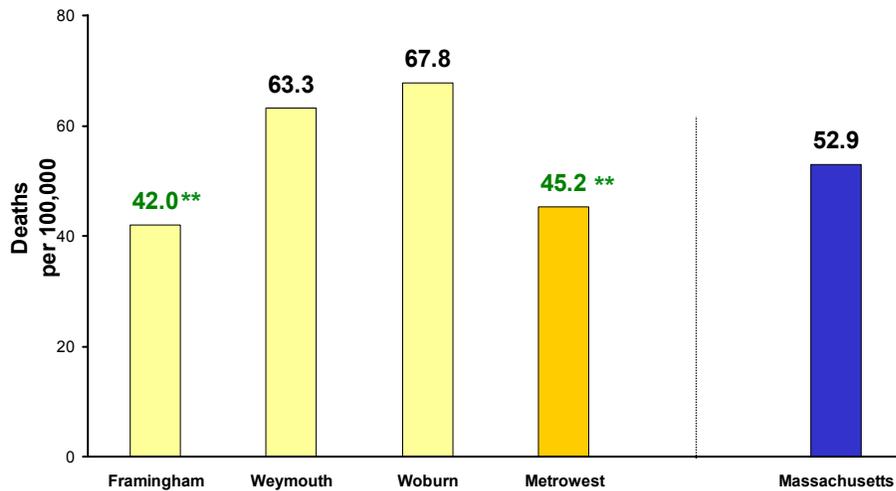
89



Statistically different from state ($p \leq .05$)– Red (*) Statistically worse than state- Green (**) statistically better than state
Age-adjusted to the 2000 US standard population.
Source: MDPH, Health Information, Statistics, Research and Evaluation Bureau, Research & Epidemiology Program

Lung Cancer Mortality Rate by Metrowest Cities and Massachusetts: 2003-2005

90



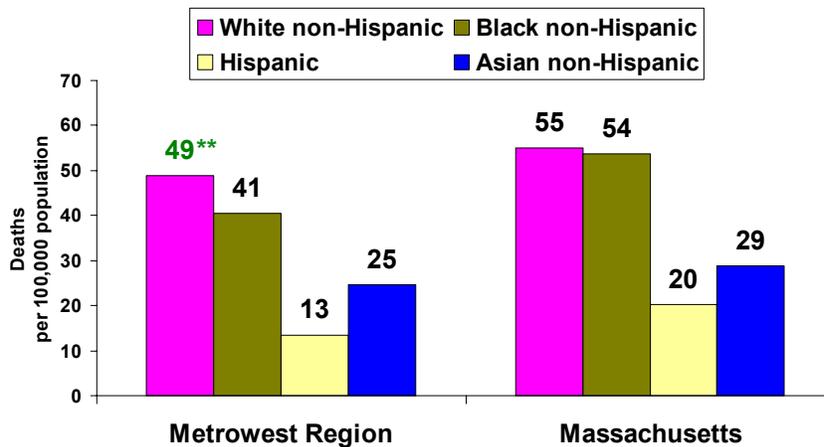
Statistically different from state ($p \leq .05$)– Red (*) Statistically worse than state- Green (**) statistically better than state

Age-adjusted to the 2000 US standard population

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

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

91

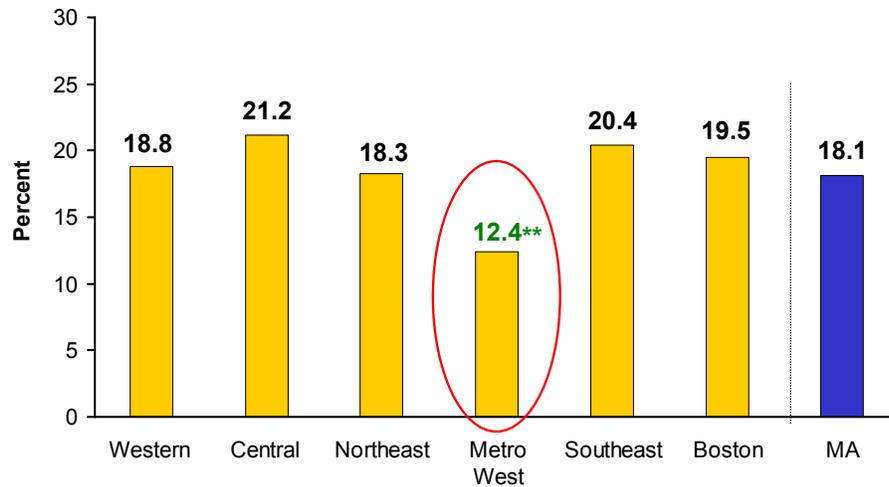


Statistically different from state ($p \leq .05$)– Red (*) Statistically worse than state- Green (**) statistically better than state

Age-adjusted to the 2000 US standard population.

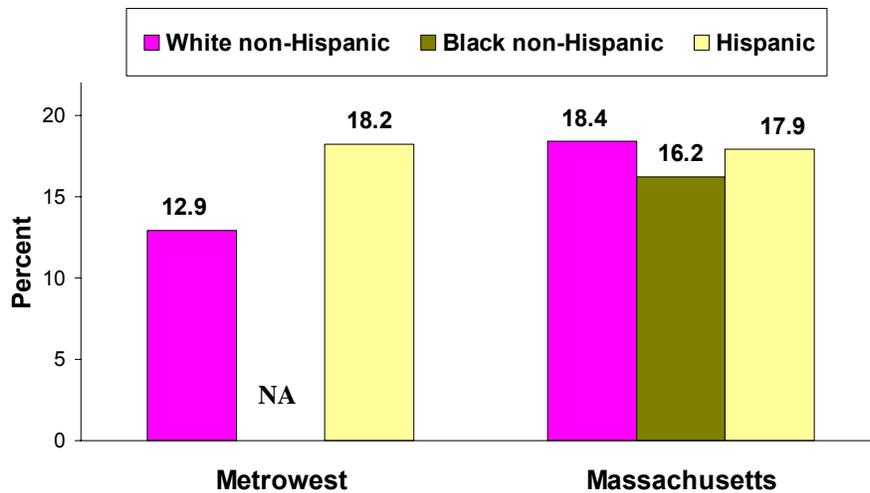
Source: Division of Health Care Finance and Policy, Calendar Year 2003- 2005, Hospital Discharges

Adults who Currently Smoke by EOHHS Region, Massachusetts: 2005



Statistically different from state ($p \leq .05$)– Red (*) Statistically worse than state- Green (**) statistically better than state
Source: MDPH, Health Information, Statistics, Research and Evaluation Bureau, Health Survey Program

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



Statistically different from state ($p \leq .05$)– Red (*) Statistically worse than state- Green (**) statistically better than state
Source: MDPH, Health Information, Statistics, Research and Evaluation Bureau, Health Survey Program

Summary Indicators for Cancer Screening by EOHHS Regions, Massachusetts: 2005

Indicator	MA Total	Western	Central	North East	Metro West	South East	Boston
% Men† PSA (2004)	56.1	49.1	52.3	52.3	62.5	56.3	66.2
% Men† DRE (2004)	62.7	59.5	60.0	63.0	64.5	62.6	69.0
% Blood Stool Test†	30.0	34.2	29.9	33.5	30.9	26.4	20.7
% Adults Sigmoidoscopy or Colonoscopy†	58.8	53.9	60.2	53.2	68.5	55	58.9
% Women Clinical Breast Exam (2004)	86.6	85.0	85.5	90.0	87.1	85.6	85.7
% Women* Mammography	84.1	86.9	83.0	83.4	87.1	82.0	80.1

*40 years and older, † 50 years and older



Better Outcome (significantly different from state)



Worse Outcome (significantly different from state)

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

Summary Cancer Indicators (Early Stage) by EOHHS Regions, Massachusetts: 1999-2003

Indicator	MA Total	Western	Central	Northeast	Metro West	South East	Boston
Prostate Cancer Incidence	140.5	129.7	122.4	140.1	128.5	156.6	174.6
Female Breast Cancer Incidence	118.6	112.9	105.3	124.9	119.8	113.1	137.6
Colorectal Cancer Incidence	26.9	25.9	21.3	29.5	24.3	28.7	32.0
Lung Cancer Incidence	14.4	12.0	12.7	15.3	12.4	16.1	19.6



Better Outcome (significantly different from state)



Worse Outcome (significantly different from state)

Source: MDPH, Health Information, Statistics, Research and Evaluation Bureau, Cancer Registry

Summary Cancer Indicators (Late Stage) by EOHS Regions, Massachusetts: 1999-2003

Indicator	MA Total	Western	Central	Northeast	Metro West	South East	Boston
Prostate Cancer Incidence	5.5	4.9	5.2	5.9	3.9	6.2	8.7
Female Breast Cancer Incidence	37.8	37.9	31.7	37.0	36.8	38.4	47.3
Colorectal Cancer Incidence	33.8	30.6	32.9	35.2	30.6	34.4	42.7
Lung Cancer Incidence	50.3	45.8	48.6	54.1	41.4	55.1	63.2

■ Better Outcome (significantly different from state) ■ Worse Outcome (significantly different from state)

Source: MDPH, Health Information, Statistics, Research and Evaluation Bureau, Cancer Registry

Summary Invasive Cancer Incidence Rates by EOHS Regions, Massachusetts: 1999-2003

Indicator	MA Total	Western	Central	Northeast	Metro West	South East	Boston
Prostate Cancer Incidence	181.9	170.3	159.7	180.5	178.4	202.5	191.3
Female Breast Cancer Incidence	138.9	135.3	127.8	139.8	146.7	139.6	134.9
Colorectal Cancer Incidence	58.9	56.2	55.2	61.8	57.2	59.7	63.6
Lung Cancer Incidence	72.0	67.2	69.9	76.7	65.1	77.5	77.7

■ Better Outcome (significantly different from state) ■ Worse Outcome (significantly different from state)

Source: MDPH, Health Information, Statistics, Research and Evaluation Bureau, Cancer Registry

Summary Cancer Mortality Indicators by EOHHS Regions, Massachusetts: 2005

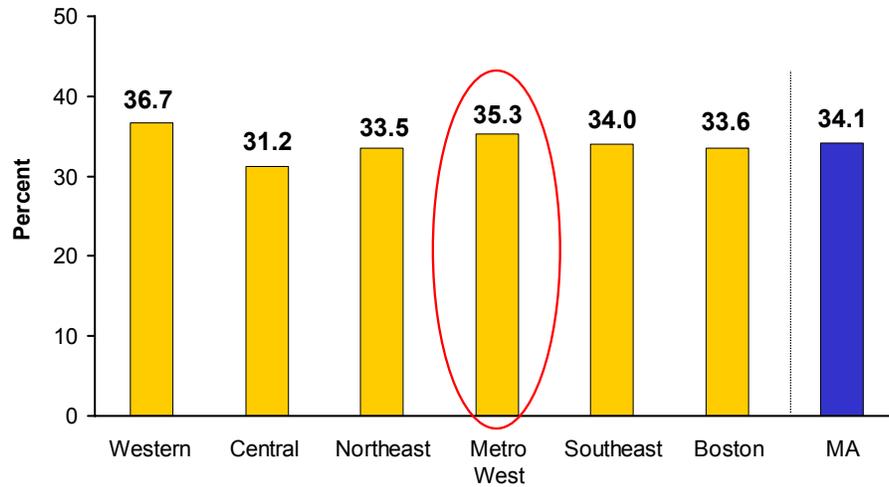
Indicator	MA Total	Western	Central	Northeast	Metro West	South East	Boston
Prostate Cancer Death Rate	21.8	25.0	27.7	22.9	18.7	17.9	24.0
Colorectal Cancer Death Rate	17.4	18.2	18.3	17.5	16.4	17.2	18.4
Female Breast Cancer Death Rate	23.0	25.5	23.1	23.1	20.9	22.5	24.6
Lung Cancer Death Rate	52.4	56.0	55.4	57.3	44.6	52.1	54.2

■ Better Outcome (significantly different from state)
 ■ Worse Outcome (significantly different from state)

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

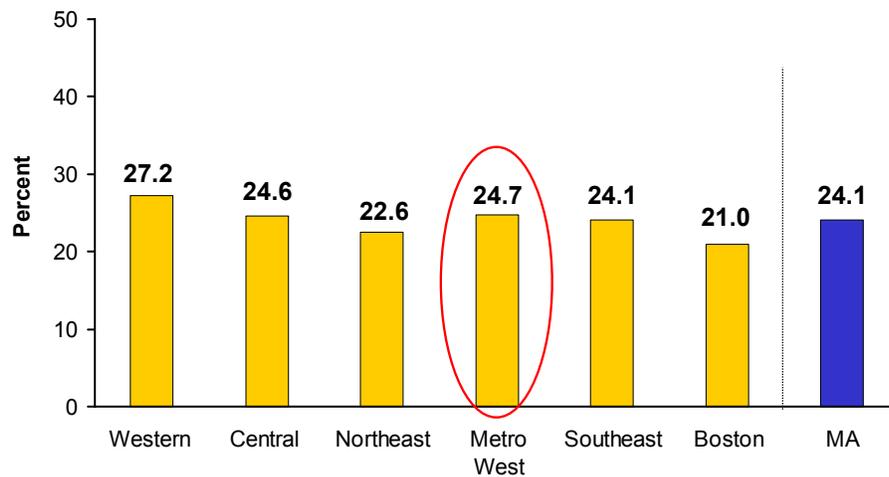
SUBSTANCE ABUSE

**Alcohol Use in Past Month Persons Aged 12 to 20⁹⁹
by EOHS Region, Massachusetts: 2002, 2003, 2004**



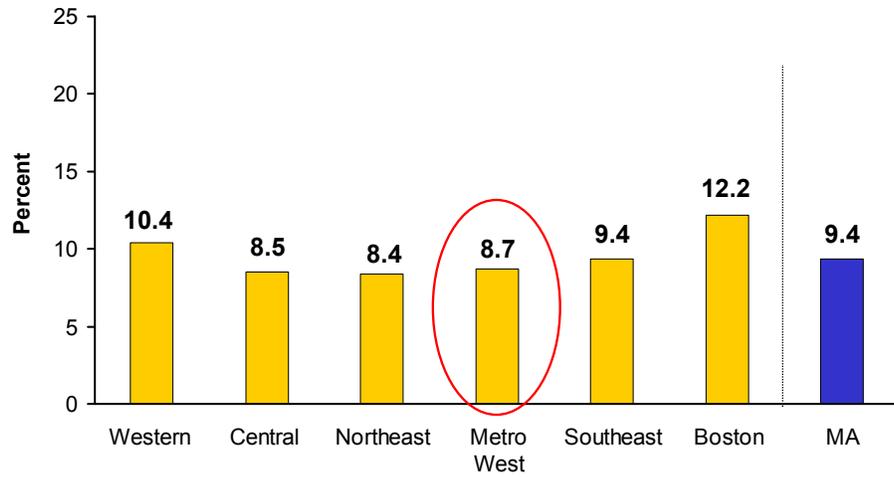
Statistically different from state ($p \leq .05$)– Red (*) Statistically worse than state- Green (**) statistically better than state
Source: SAMHSA, Office of Applied Studies, National Survey on Drug Use and Health, 2002, 2003, and 2004.

**Binge Drinking¹ in Past Month Persons Aged 12 to 20¹⁰⁰
by EOHS Region, Massachusetts: 2002, 2003, 2004**



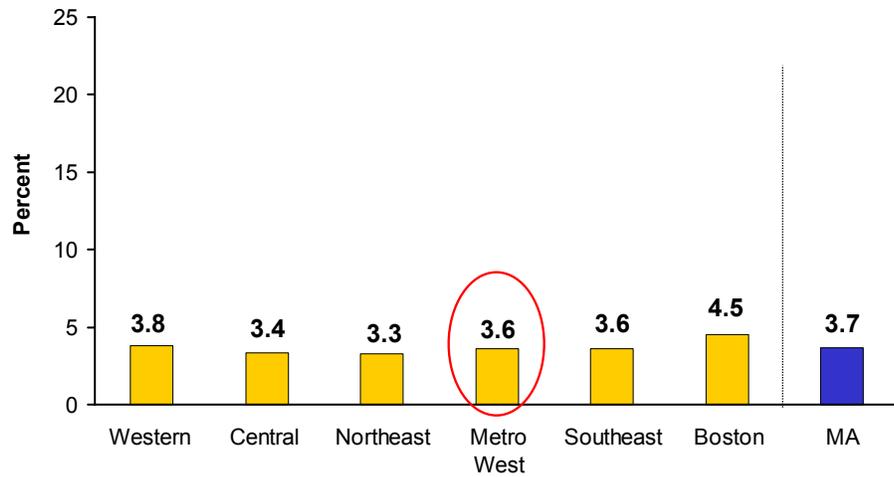
Statistically different from state ($p \leq .05$)– Red (*) Statistically worse than state- Green (**) statistically better than state
¹ Binge Alcohol use is defined as drinking 5+ drinks on the same occasion on at least 1 day in the past 30 days
Source: SAMHSA, Office of Applied Studies, National Survey on Drug Use and Health, 2002, 2003, and 2004.

101
Any Illicit Drug Use in Past Month Persons Aged 12+ by EOHHS Region, Massachusetts: 2002, 2003, 2004



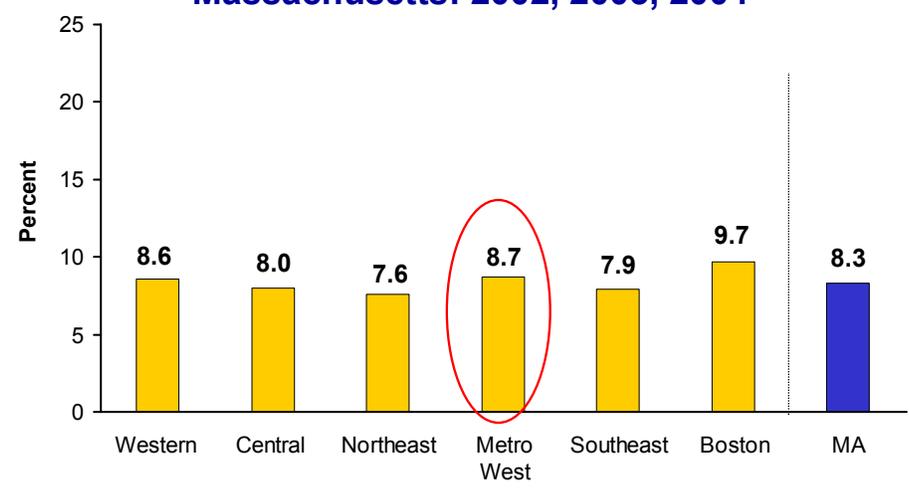
Statistically different from state ($p \leq .05$)– Red (*) Statistically worse than state- Green (**) statistically better than state
 Source: SAMHSA, Office of Applied Studies, National Survey on Drug Use and Health, 2002, 2003, and 2004.

102
Any Illicit Drug Use Other than Marijuana in Past Month Persons Aged 12+ by EOHHS Region Massachusetts: 2002, 2003, 2004



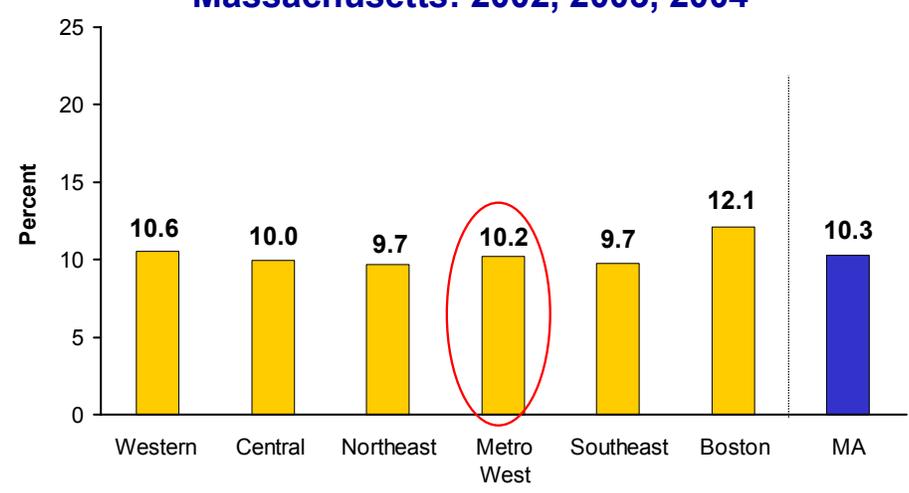
Statistically different from state ($p \leq .05$)– Red (*) Statistically worse than state- Green (**) statistically better than state
 Source: SAMHSA, Office of Applied Studies, National Survey on Drug Use and Health, 2002, 2003, and 2004.

Alcohol Dependence or Abuse in Past Year Persons Aged 12+ by EOHHS Region Massachusetts: 2002, 2003, 2004



Statistically different from state ($p \leq .05$)– Red (*) Statistically worse than state- Green (**) statistically better than state
Source: SAMHSA, Office of Applied Studies, National Survey on Drug Use and Health, 2002, 2003, and 2004.

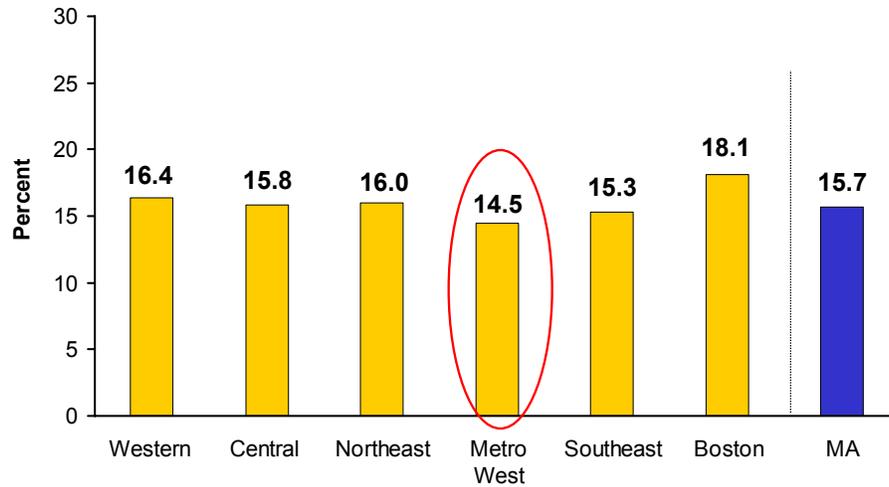
Dependence or Abuse of Any Illicit Drug or Alcohol in Past Year Persons Aged 12+ by EOHHS Region Massachusetts: 2002, 2003, 2004



Statistically different from state ($p \leq .05$)– Red (*) Statistically worse than state- Green (**) statistically better than state
Source: SAMHSA, Office of Applied Studies, National Survey on Drug Use and Health, 2002, 2003, and 2004.

Adults who Binge Drink by EOHHS Region, Massachusetts: 2005

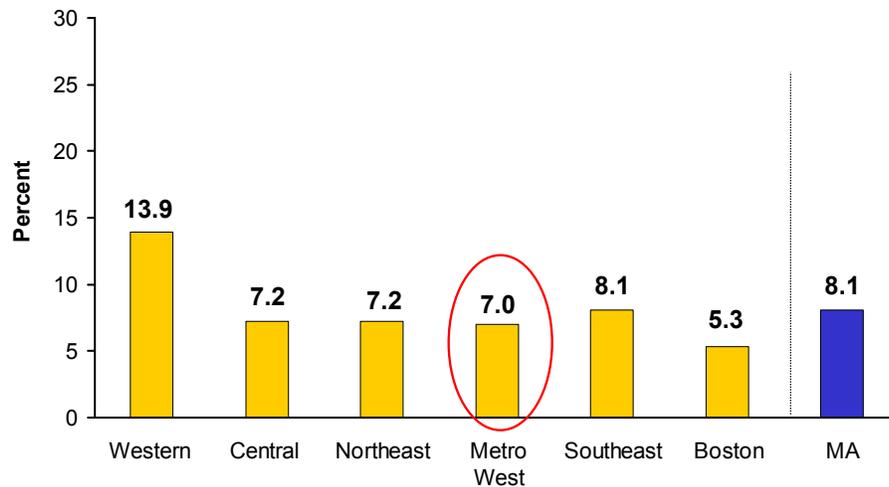
105



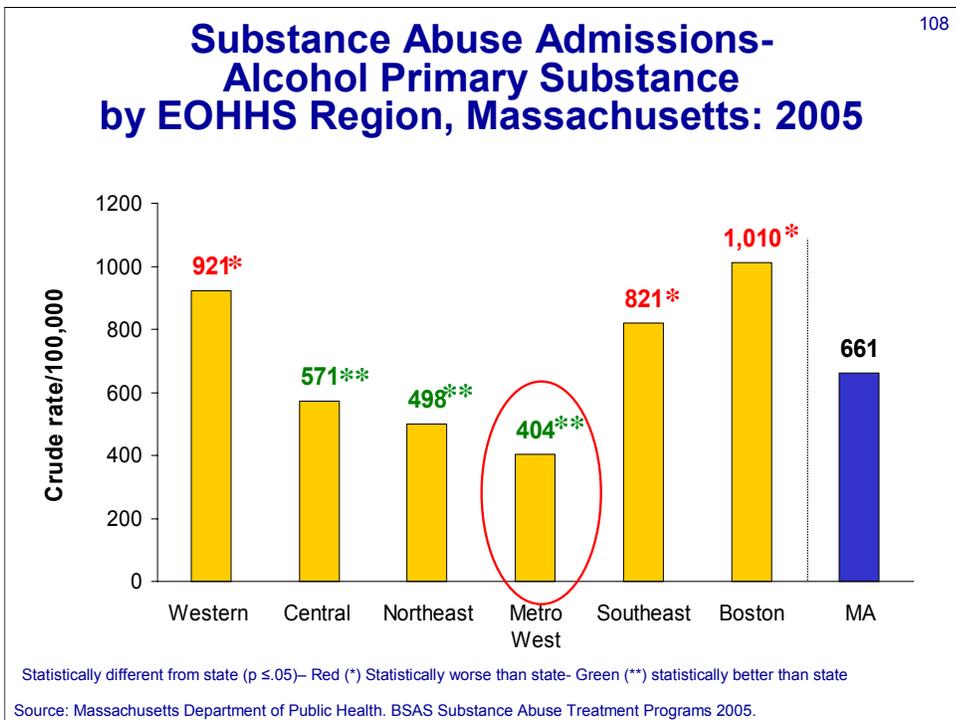
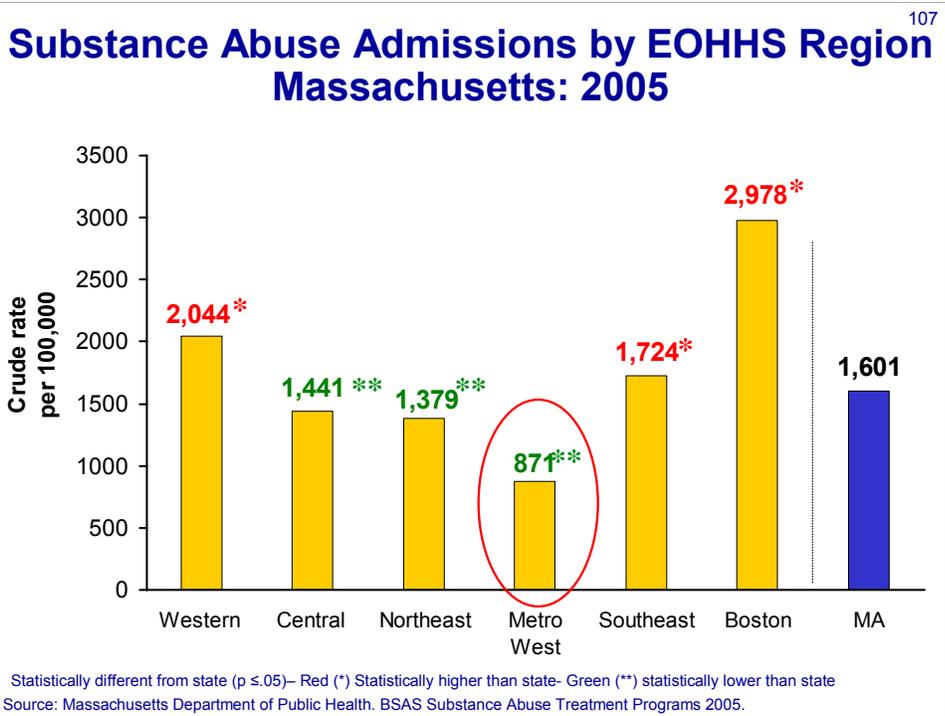
Statistically different from state ($p \leq .05$)– Red (*) Statistically worse than state- Green (**) statistically better than state
Source: MDPH, Health Information, Statistics, Research and Evaluation Bureau, Health Survey Program

Adults who Used Illicit Drugs in Past Month by EOHHS Region, Massachusetts: 2005

106

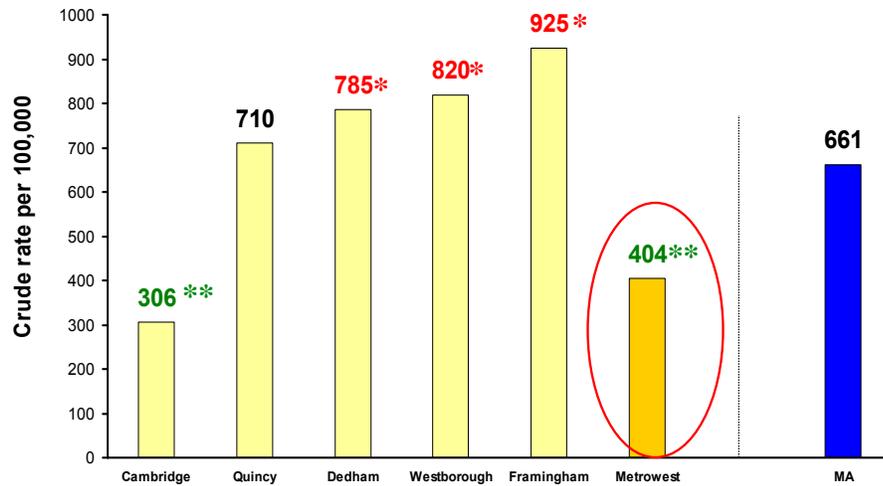


Statistically different from state ($p \leq .05$)– Red (*) Statistically worse than state- Green (**) statistically better than state
Source: MDPH, Health Information, Statistics, Research and Evaluation Bureau, Health Survey Program



Substance Abuse Admissions- Alcohol Primary Substance by Metrowest Cities, Massachusetts: 2005

109

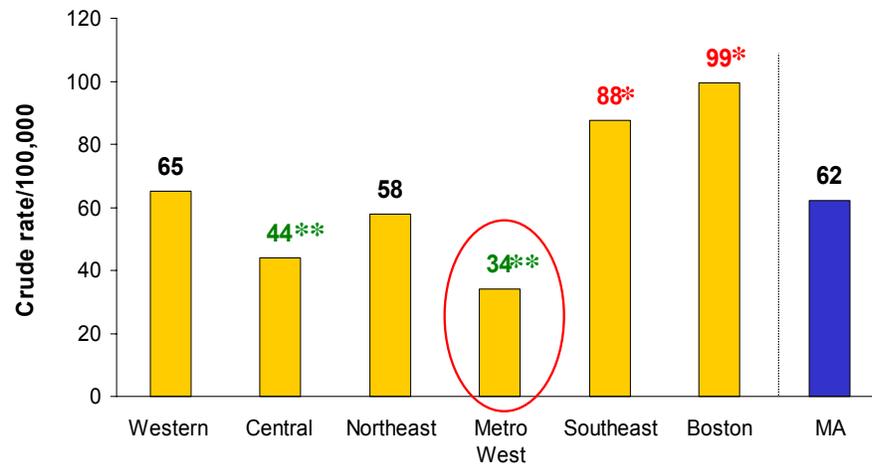


Statistically different from state ($p \leq .05$)– Red (*) Statistically higher than state- Green (**) statistically lower than state

Source: Massachusetts Department of Public Health. BSAS Substance Abuse Treatment Programs 2005.

Substance Abuse Admissions- Cocaine Primary Substance by EOHS Region, Massachusetts: 2005

110

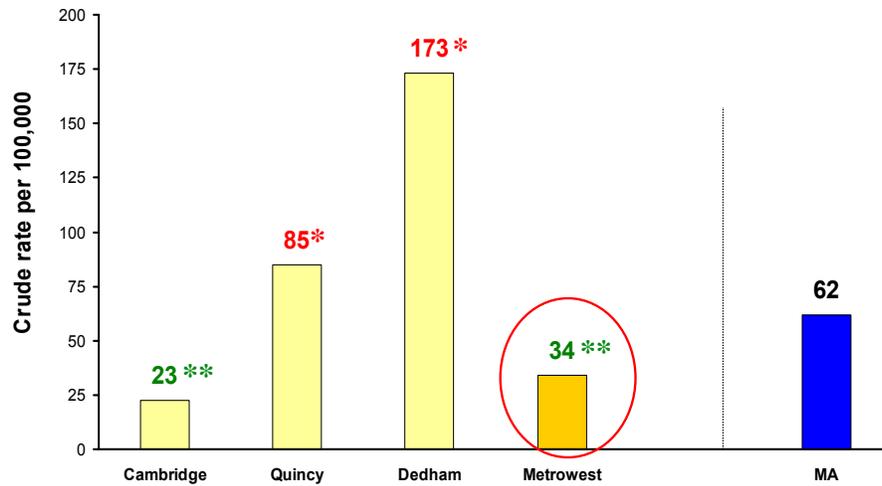


Statistically different from state ($p \leq .05$)– Red (*) Statistically higher than state- Green (**) statistically lower than state

Source: Massachusetts Department of Public Health. BSAS Substance Abuse Treatment Programs 2005.

Substance Abuse Admissions- Cocaine Primary Substance by Metrowest Cities, Massachusetts: 2005

111

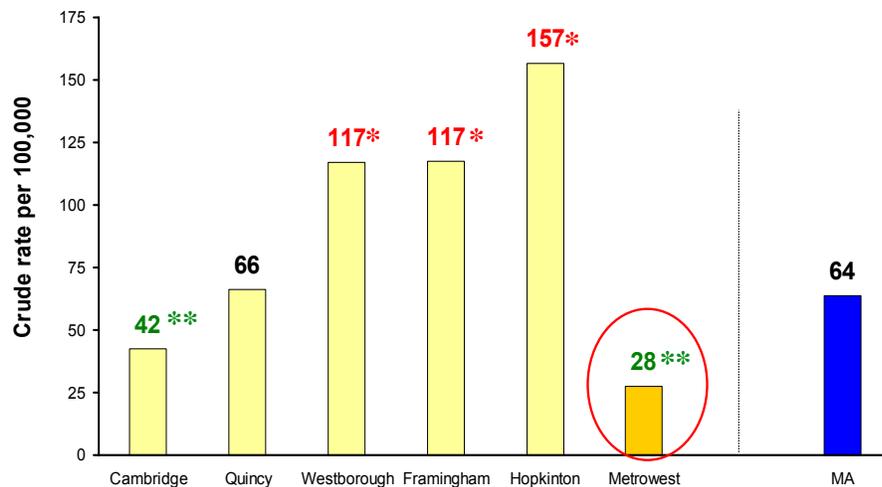


Statistically different from state ($p \leq .05$)– Red (*) Statistically higher than state- Green (**) statistically lower than state

Source: Massachusetts Department of Public Health. BSAS Substance Abuse Treatment Programs 2005.

Substance Abuse Admissions- Crack Primary Substance by Metrowest Cities, Massachusetts: 2005

112

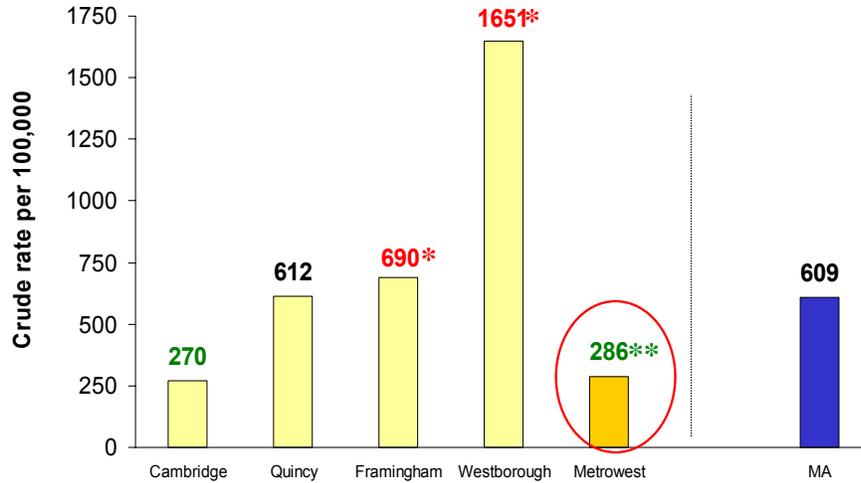


Statistically different from state ($p \leq .05$)– Red (*) Statistically higher than state- Green (**) statistically lower than state

Source: Massachusetts Department of Public Health. BSAS Substance Abuse Treatment Programs 2005.

Substance Abuse Admissions- Heroin Primary Substance by Metrowest Cities, Massachusetts: 2005

113

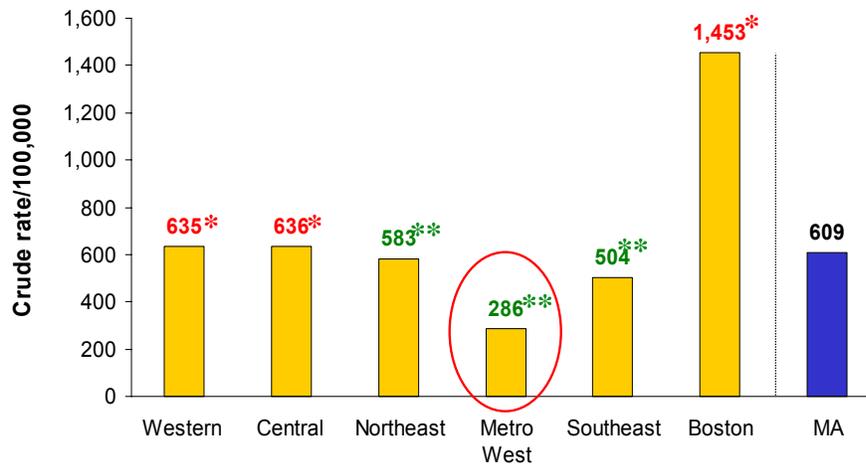


Statistically different from state (p ≤.05)– Red (*) Statistically higher than state- Green (**) statistically lower than state

Source: Massachusetts Department of Public Health. BSAS Substance Abuse Treatment Programs 2005.

Substance Abuse Admissions- Heroin Primary Substance by EOHS Region, Massachusetts: 2005

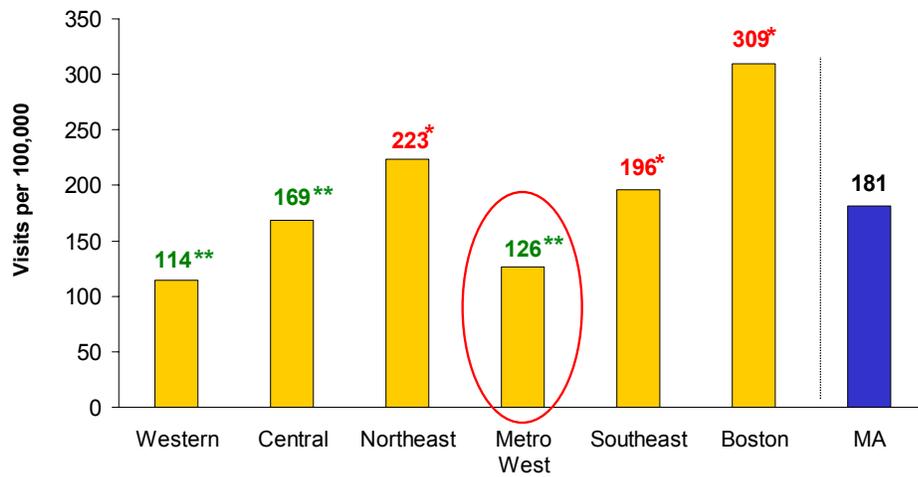
114



Statistically different from state (p ≤.05)– Red (*) Statistically higher than state- Green (**) statistically lower than state

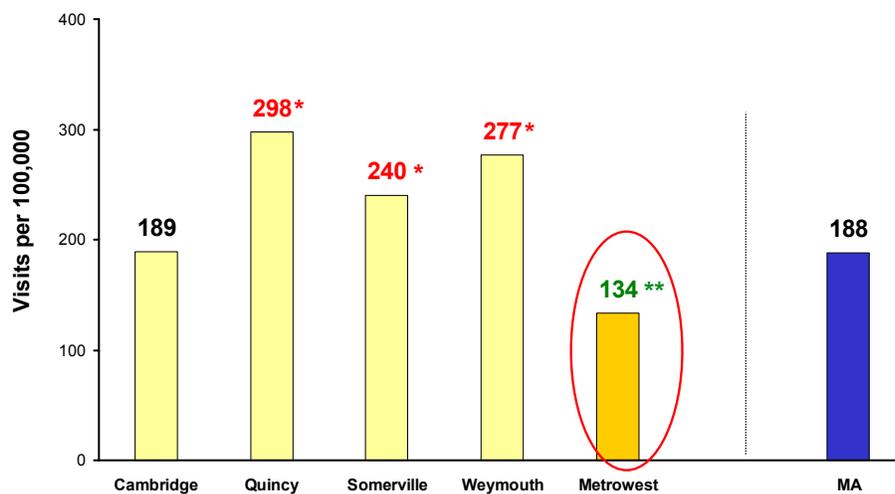
Source: Massachusetts Department of Public Health. BSAS Substance Abuse Treatment Programs 2005.

Opioid-Related Emergency Department Visit Rates¹¹⁵ by EOHHS Region Massachusetts: 2003-2005



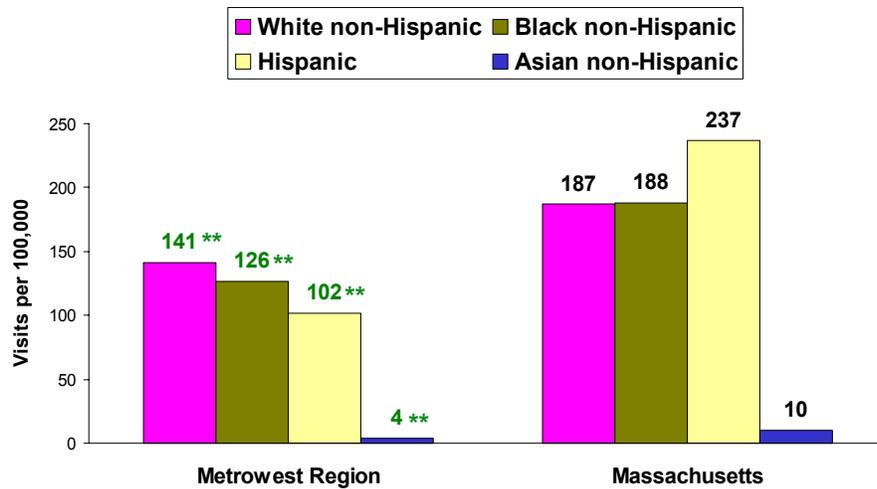
Statistically different from state ($p \leq .05$)– Red (*) Statistically higher than state- Green (**) statistically lower than state
Age-adjusted to the 2000 US standard population.
Source: Division of Health Care Finance and Policy. Calendar Year 2003- 2005. Emergency Department Visits

Opioid-Related Emergency Department Visit Rates¹¹⁶ by Metrowest Cities and Massachusetts: 2005



Statistically different from state ($p \leq .05$)– Red (*) Statistically higher than state- Green (**) statistically lower than state
Age-adjusted to the 2000 US standard population
Source: MDPH, Health Information, Statistics, Research and Evaluation Bureau, Research & Epidemiology Program

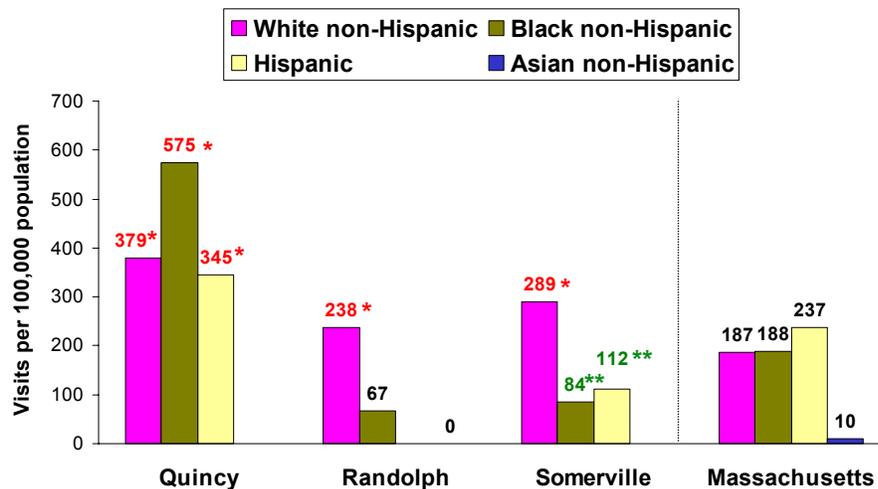
Opioid-Related Emergency Department Visit Rates¹¹⁷ by Race/Ethnicity Metrowest Region and Massachusetts: 2003-2005



Statistically different from state ($p \leq .05$)– Red (*) Statistically higher than state- Green (**) statistically lower than state
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 Rates¹¹⁸ by Race/Ethnicity Quincy, Randolph, and Somerville vs. Massachusetts: 2003-2005

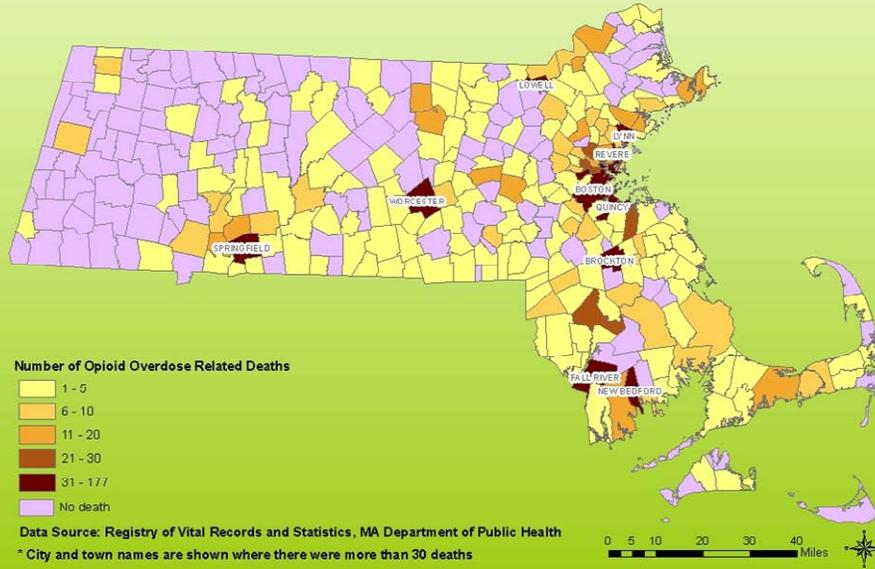


Statistically different from state ($p \leq .05$)– Red (*) Statistically worse than state- Green (**) statistically better than state
Age-adjusted to the 2000 US standard population.

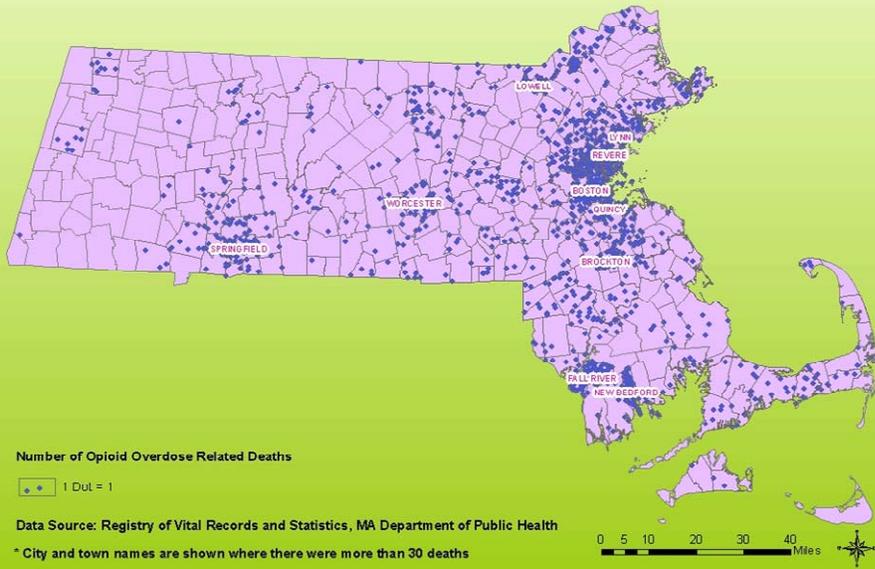
Source: Division of Health Care Finance and Policy. Calendar Year 2003- 2005. Emergency Department Visits



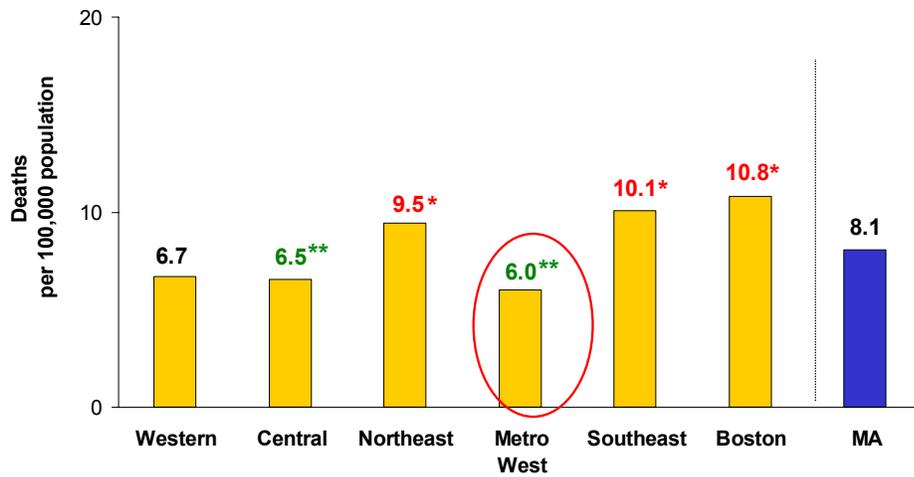
Massachusetts City and Town FY03-05 Total Number Of Opioid Overdose Related Deaths



Massachusetts City and Town FY03-05 Total Number Of Opioid Overdose Related Deaths

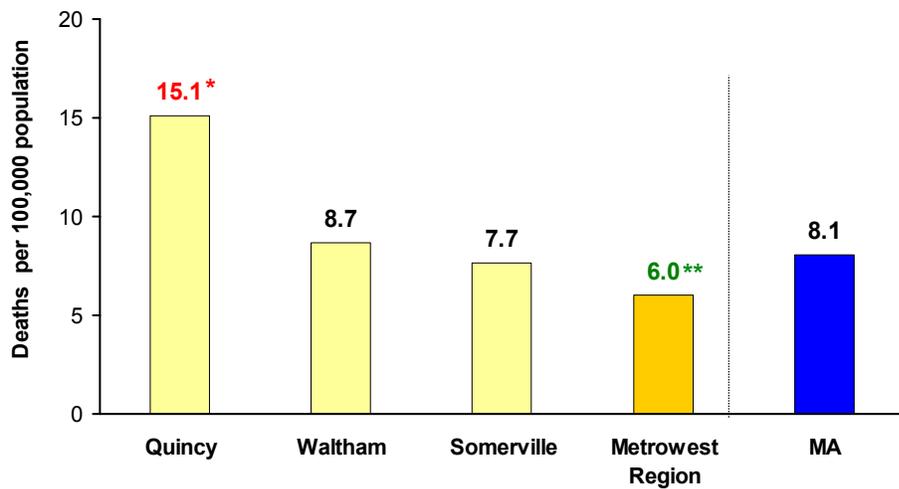


Opioid-Related Fatal Overdoses by EOHHS Region, Massachusetts: 2003-2005



Statistically different from state ($p \leq .05$)– Red (*) Statistically worse than state- Green (**) statistically better than state
 Age-adjusted to the 2000 US standard population.
 Source: MDPH, Health Information, Statistics, Research and Evaluation Bureau, Research & Epidemiology Program

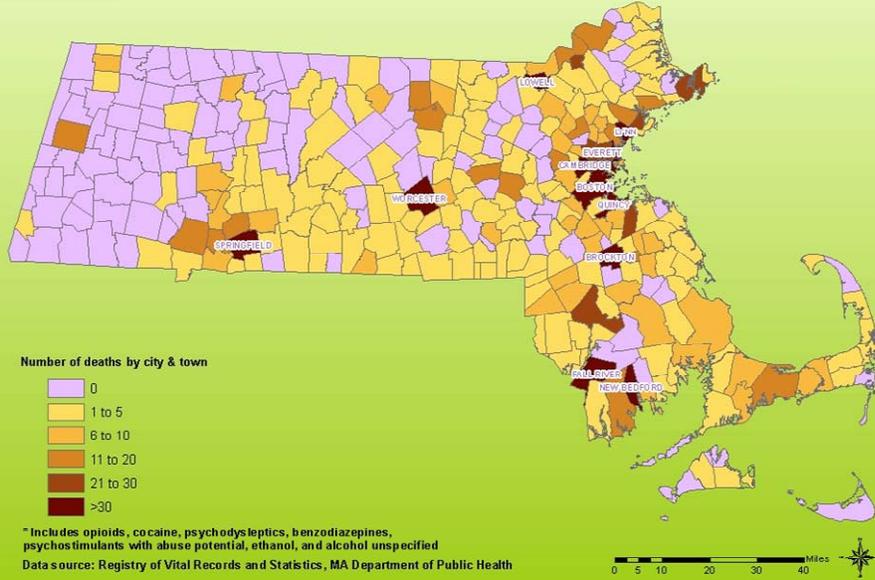
Opioid-Related Fatal Overdoses by Metrowest Cities and Massachusetts: 2003-2005



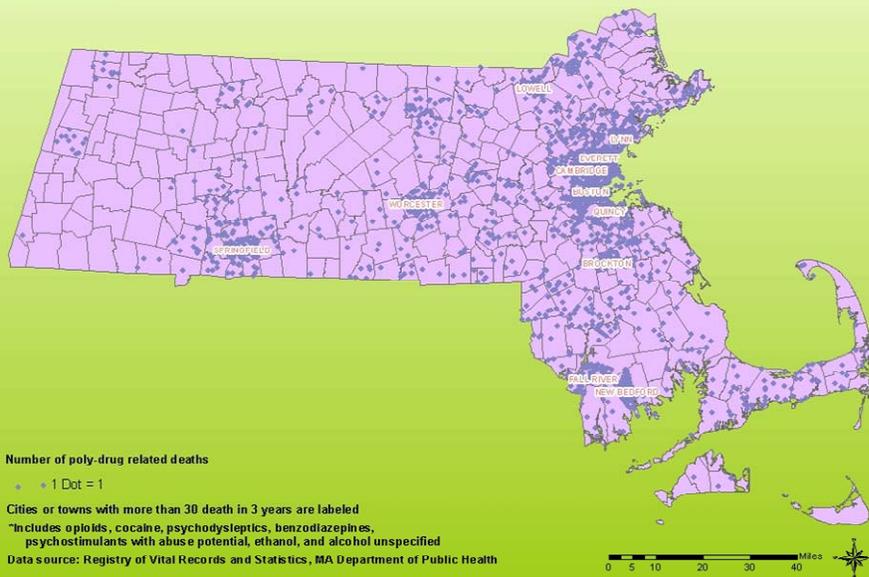
Statistically different from state ($p \leq .05$)– Red (*) Statistically worse than state- Green (**) statistically better than state
 Age-adjusted to the 2000 US standard population.
 Source: MDPH, Health Information, Statistics, Research and Evaluation Bureau, Research & Epidemiology Program



Massachusetts City and Town FY03-05 Total Number of Poly-Drug* Overdose related Deaths



Massachusetts City and Town FY03-05 Total Number of Poly-Drug* Overdose related Deaths



Summary Substance Abuse Indicators Percentages by EOHHS Region 125

Indicator	MA Total	Western	Central	Northeast	Metro West	South East	Boston
Past Month Alcohol 12-20 years	34.1	36.7	31.2	33.5	35.3	34.0	33.6
Past Month Binge Drinking- 12-20 years	24.1	27.2	24.6	22.6	24.7	24.1	21.0
Any Illicit Drug Use Past Month, Ages 12+	9.4	10.4	8.5	8.4	8.7	9.4	12.2
Any Illicit Drug Use Other than Marijuana Past Month, Ages 12+	3.7	3.8	3.4	3.3	3.6	3.6	4.5
Alcohol Dependence or Abuse past Year, Ages 12+	8.3	8.6	8.0	7.6	8.7	7.9	9.7
Dependence or Abuse of Alcohol or Any Illicit Drug, Ages 12+	10.3	10.6	10.0	9.7	10.2	9.7	12.1

■ Better Outcome (significantly different from state)
 ■ Worse Outcome (significantly different from state)

Source: SAMHSA, Office of Applied Studies, National Survey on Drug Use and Health, 2002, 2003, and 2004.

Summary Substance Abuse Indicators by EOHHS Region, Massachusetts: 2005 126

Indicator	MA Total	Western	Central	North east	Metro West	South East	Boston
% Adults Binge Drinking	15.7	16.4	15.8	16.0	14.5	15.3	18.1
% Adults Smoking	18.1	18.8	21.2	18.3	12.4	20.4	19.5
% Adults using illicit drugs	8.1	13.9	7.2	7.2	7.0	8.1	5.3
Substance Abuse Treatment Program Admissions Rate	1,601	2,044	1,441	1,379	871	1,724	2,978
Substance Abuse Treatment Program Admissions Rate-- Alcohol	661	921	571	498	404	821	1,010
Substance Abuse Treatment Program Admissions Rate-- Cocaine	62	65	44	58	34	88	99
Substance Abuse Treatment Program Admissions Rate-- Heroin	609	635	636	583	286	504	1,453

■ Better Outcome (significantly different from state)
 ■ Worse Outcome (significantly different from state)

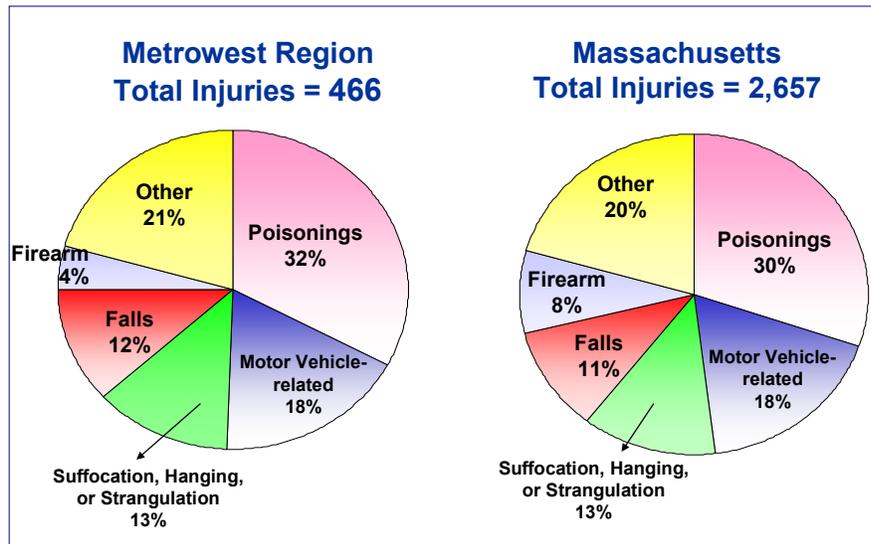
Summary Opioid Indicators by EOHHS Regions Massachusetts: 2003-2005

Indicator	MA Total	Western	Central	Northeast	Metro West	South East	Boston
Opioid-related Emergency Department Visit Rate	181	114	169	223	126	196	309
Opioid-related fatal overdose rate	8.1	6.7	6.5	9.5	6.0	10.1	10.8

■ Better Outcome (significantly different from state)
 ■ Worse Outcome (significantly different from state)

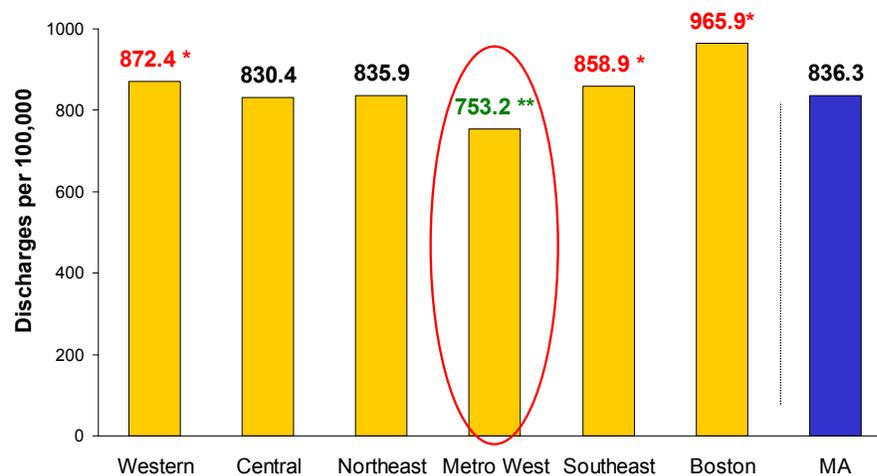
INJURY AND VIOLENCE

Causes of Injury Deaths Metrowest Region and Massachusetts: 2005



Source: Massachusetts Department of Public Health, Center for Health Information, Statistics, Research, and Evaluation

Injury-Related Hospital Discharge Rates by EOHHS Region Massachusetts: 2003-2005

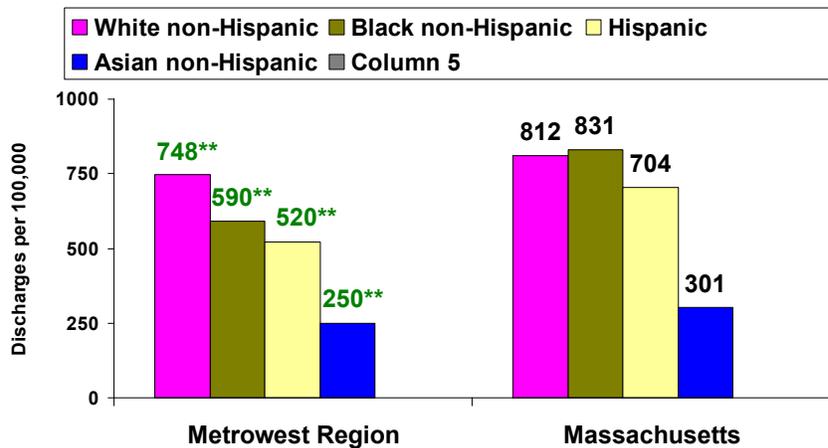


Statistically different from state ($p \leq .05$)– Red (*) Statistically worse than state- Green (**) statistically better than state
Age-adjusted to the 2000 US standard population.

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

Injury-Related Hospital Discharge Rates by Race/Ethnicity, Metrowest Region & Massachusetts: 2003-2005

130

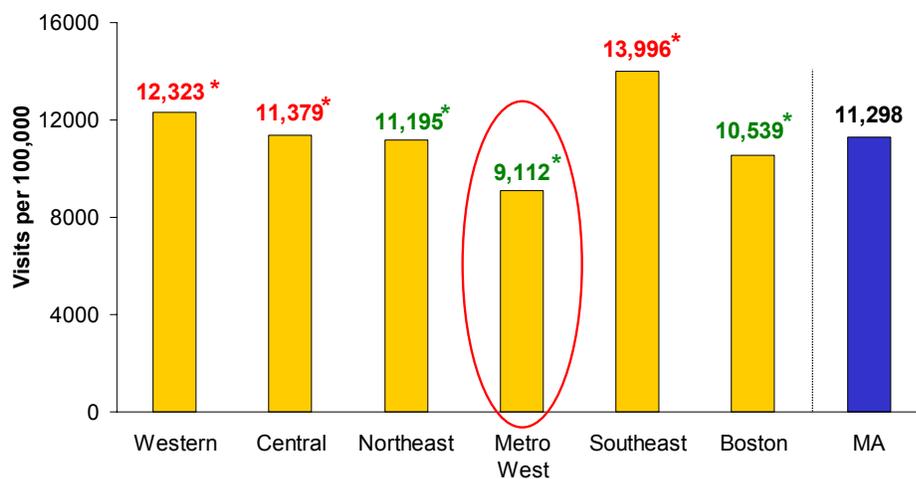


Statistically different from state ($p \leq .05$)– Red (*) Statistically worse than state- Green (**) statistically better than state
Age-adjusted to the 2000 US standard population.

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

Emergency Department Visit Rates for Injuries & Poisonings by EOHHS Region Massachusetts: 2003-2005

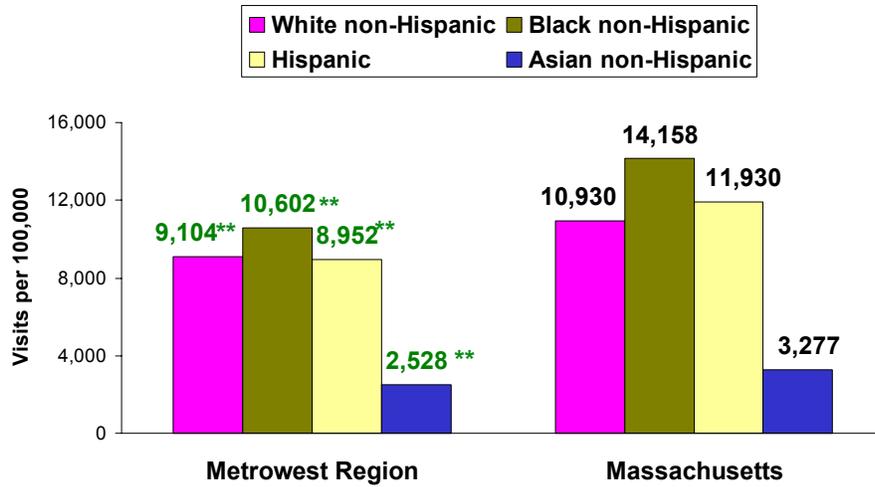
131



Statistically different from state ($p \leq .05$)– Red (*) Statistically worse than state- Green (**) statistically better than state
Age-adjusted to the 2000 US standard population.

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

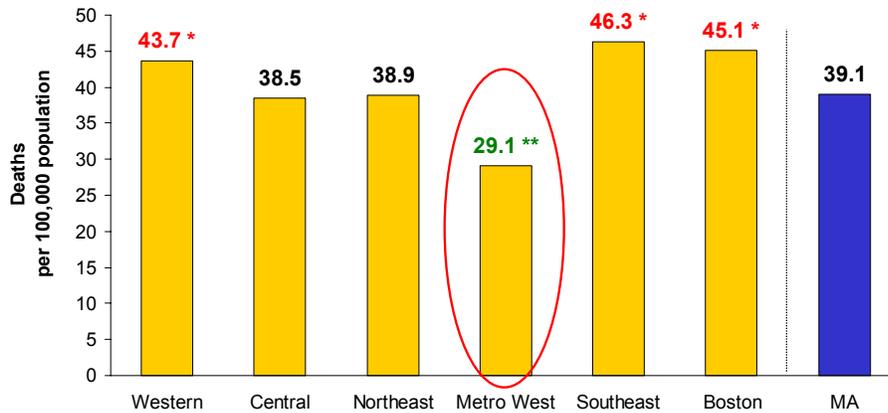
Emergency Department Visit Rates for Injuries & Poisonings by Race/Ethnicity Metrowest Region and Massachusetts: 2003-2005



Statistically different from state ($p \leq .05$)– Red (*) Statistically worse than state- Green (**) statistically better than state
Age-adjusted to the 2000 US standard population.

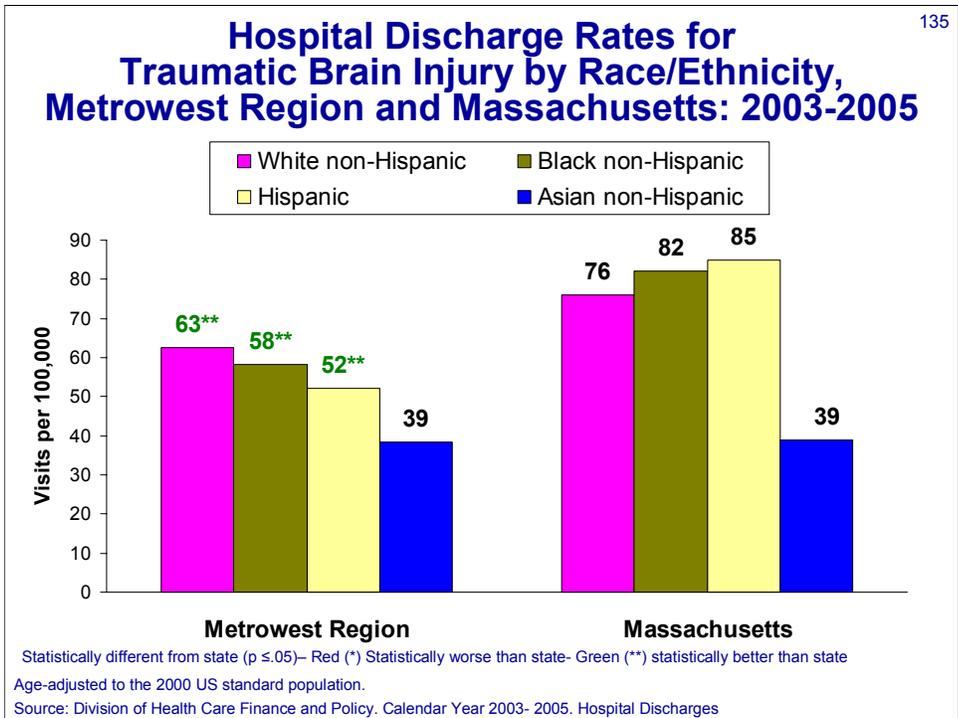
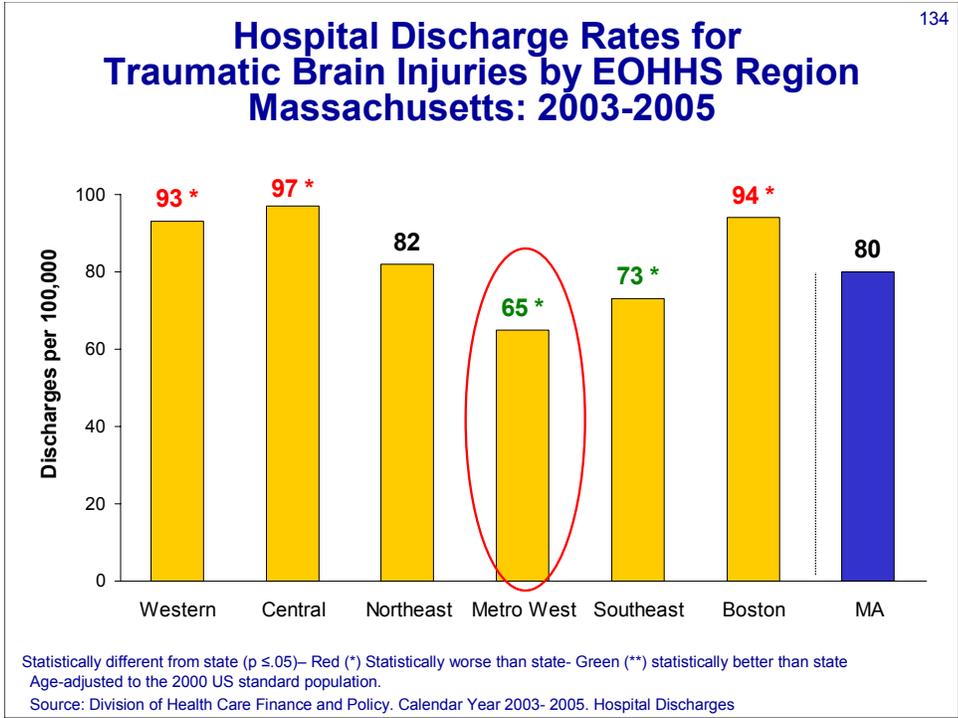
Source: Division of Health Care Finance and Policy. Calendar Year 2003- 2005. Emergency Department Visits

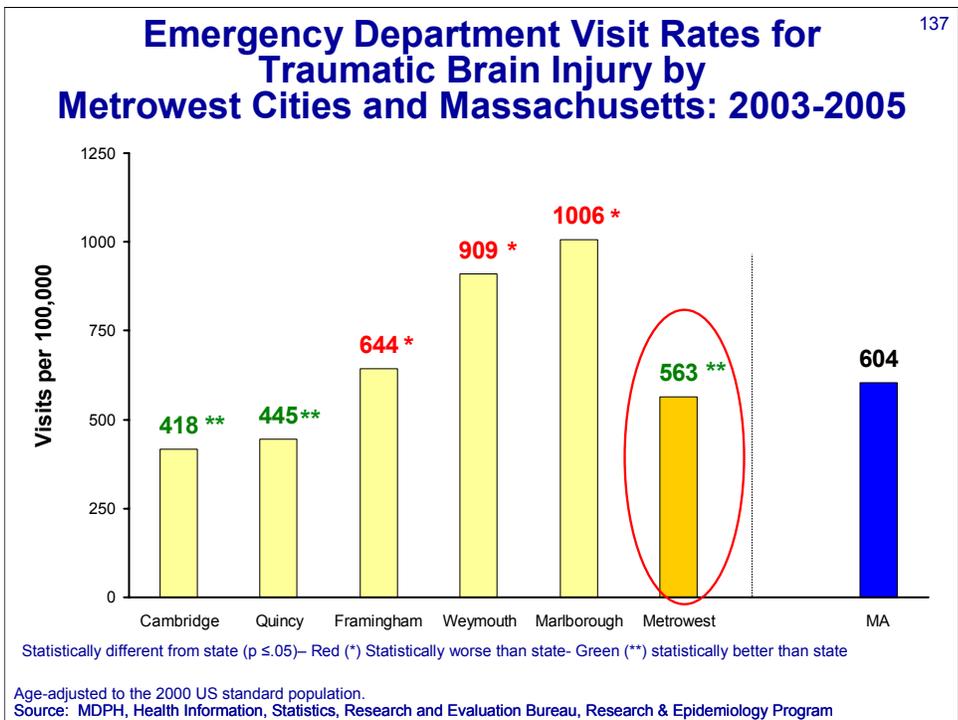
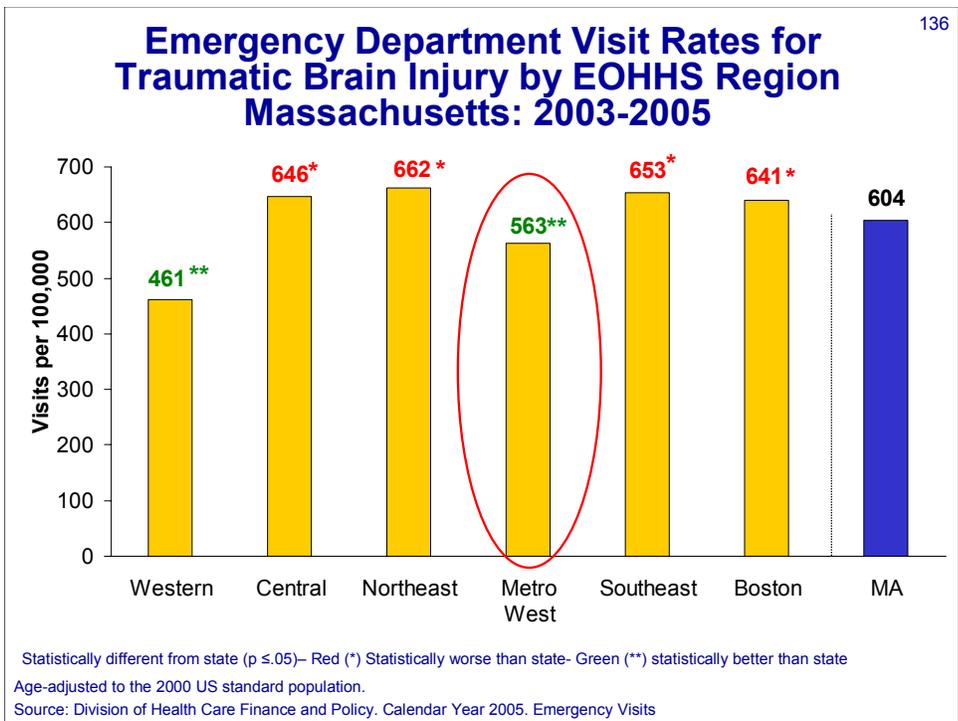
Injury Death Rates by EOHHS Region Massachusetts: 2003-2005



Statistically different from state ($p \leq .05$)– Red (*) Statistically worse than state- Green (**) statistically better than state
Age-adjusted to the 2000 US standard population.

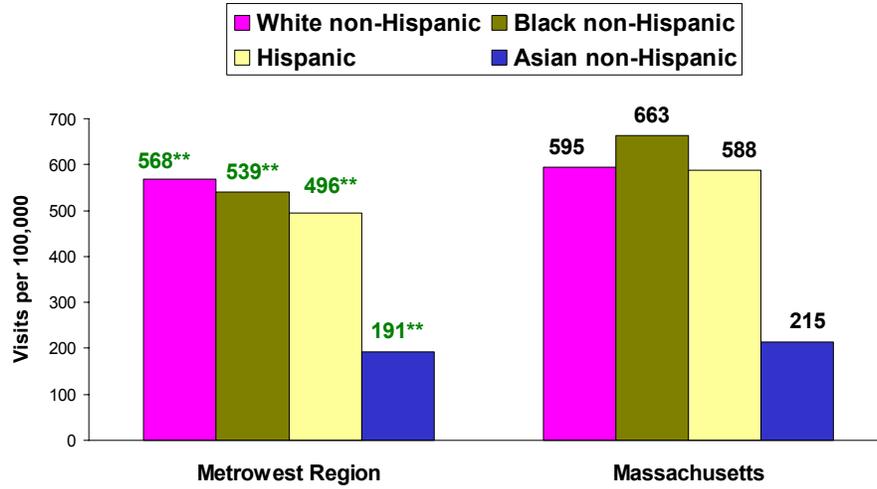
Source: MDPH, Health Information, Statistics, Research and Evaluation Bureau, Research & Epidemiology Program





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

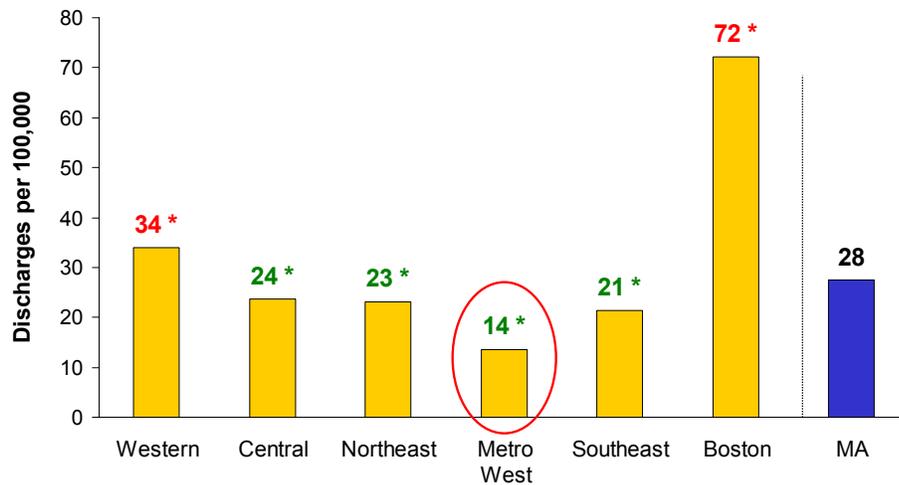
138



Statistically different from state ($p \leq .05$)– Red (*) Statistically worse than state- Green (**) statistically better than state
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 EOHHS Region Massachusetts: 2003-2005

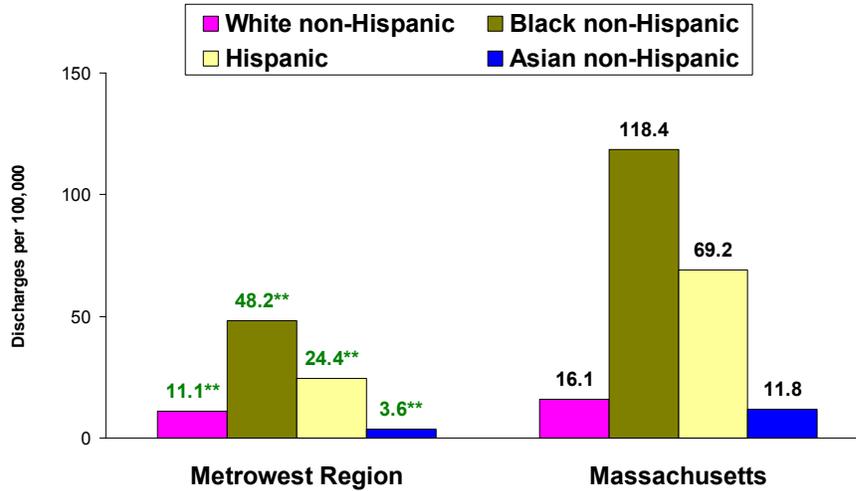
139



Statistically different from state ($p \leq .05$)– Red (*) Statistically worse than state- Green (**) statistically better than state
Age-adjusted to the 2000 US standard population.
Source: MDPH, Health Information, Statistics, Research and Evaluation Bureau, Research & Epidemiology Program

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

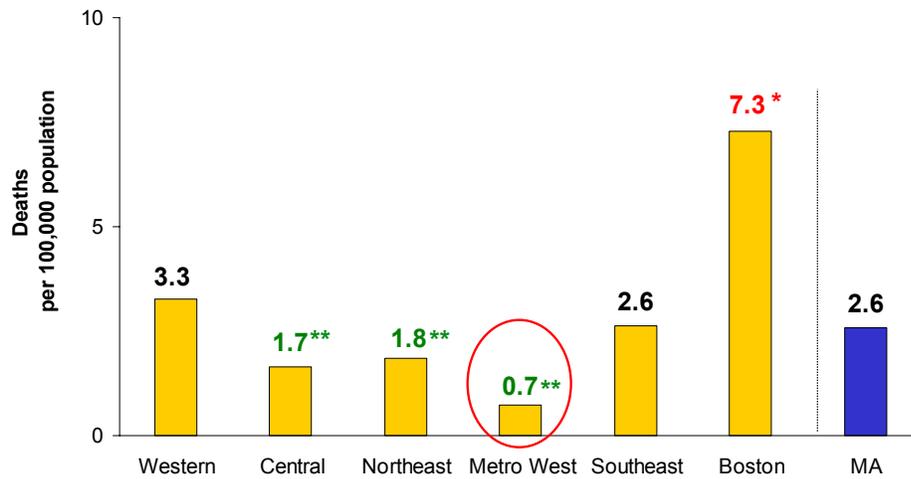
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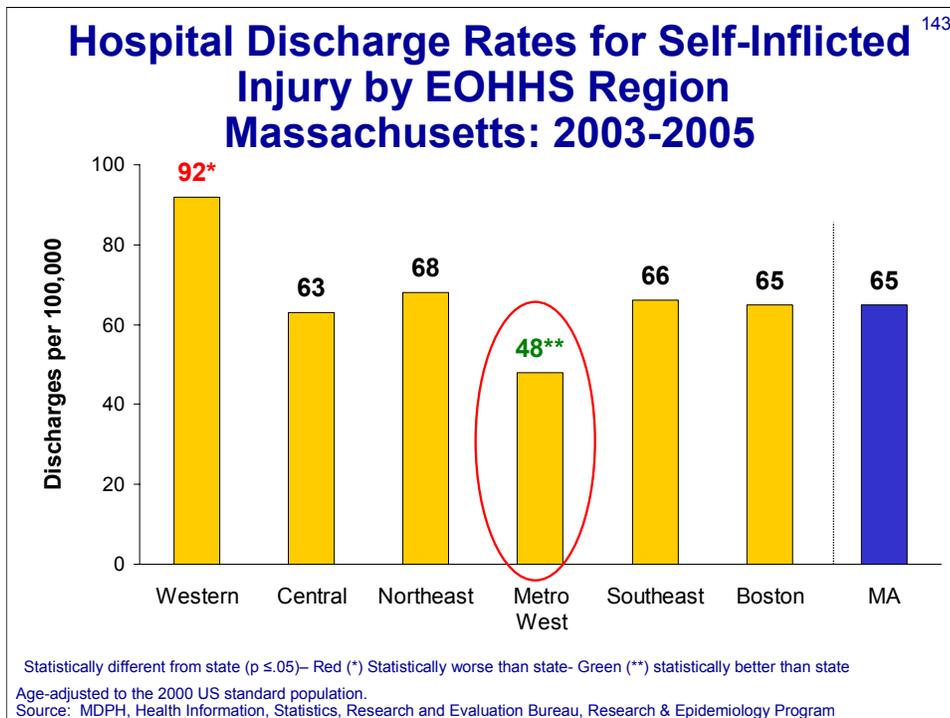
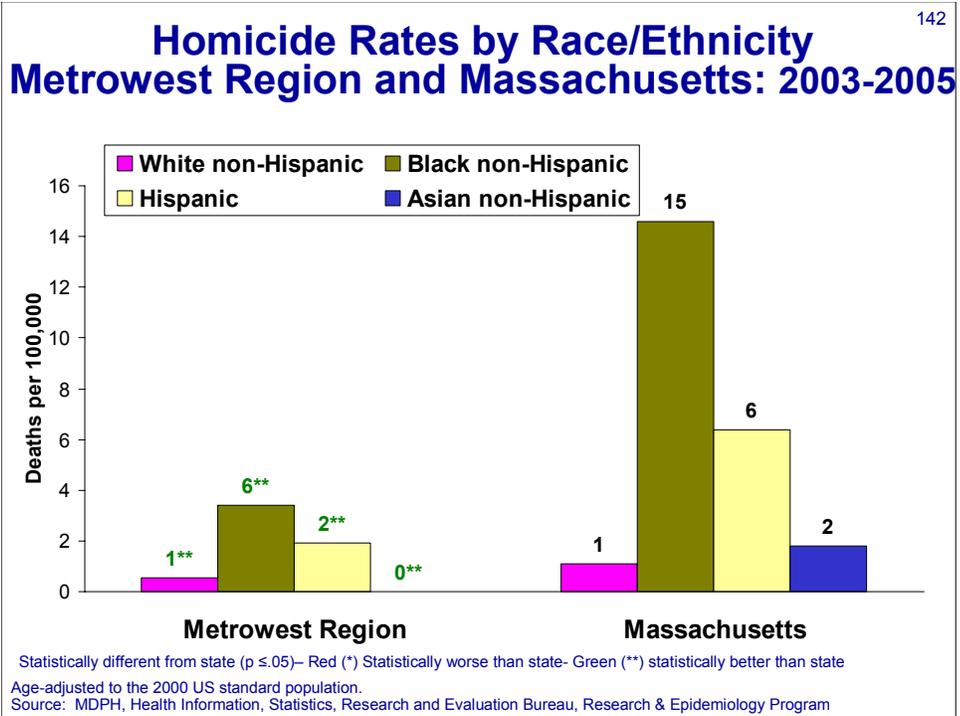
Statistically different from state ($p \leq .05$)– Red (*) Statistically worse than state- Green (**) statistically better than state
 Age-adjusted to the 2000 US standard population.
 Source: MDPH, Health Information, Statistics, Research and Evaluation Bureau, Research & Epidemiology Program

Homicides by EOHHHS Region Massachusetts: 2003-2005

141

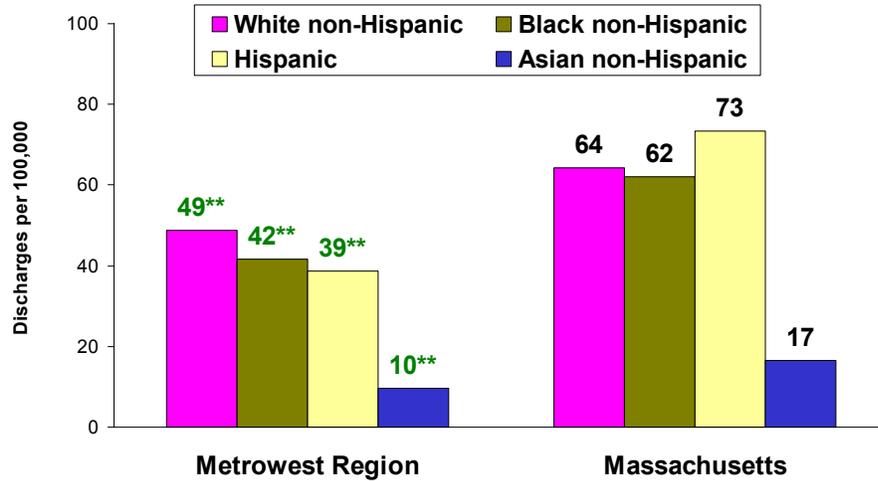


Statistically different from state ($p \leq .05$)– Red (*) Statistically worse than state- Green (**) statistically better than state
 Age-adjusted to the 2000 US standard population.
 Source: MDPH, Health Information, Statistics, Research and Evaluation Bureau, Research & Epidemiology Program



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

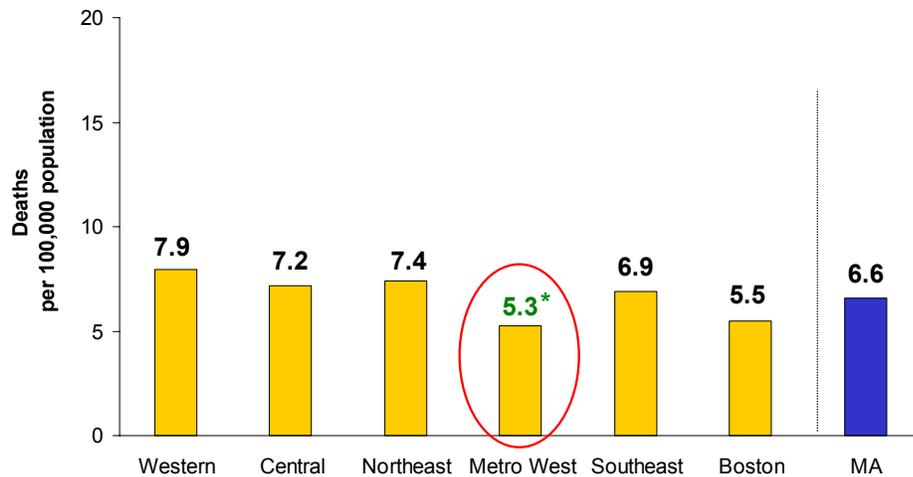
144



Statistically different from state ($p \leq .05$)– Red (*) Statistically worse than state- Green (**) statistically better than state
 Age-adjusted to the 2000 US standard population.
 Source: MDPH, Health Information, Statistics, Research and Evaluation Bureau, Research & Epidemiology Program

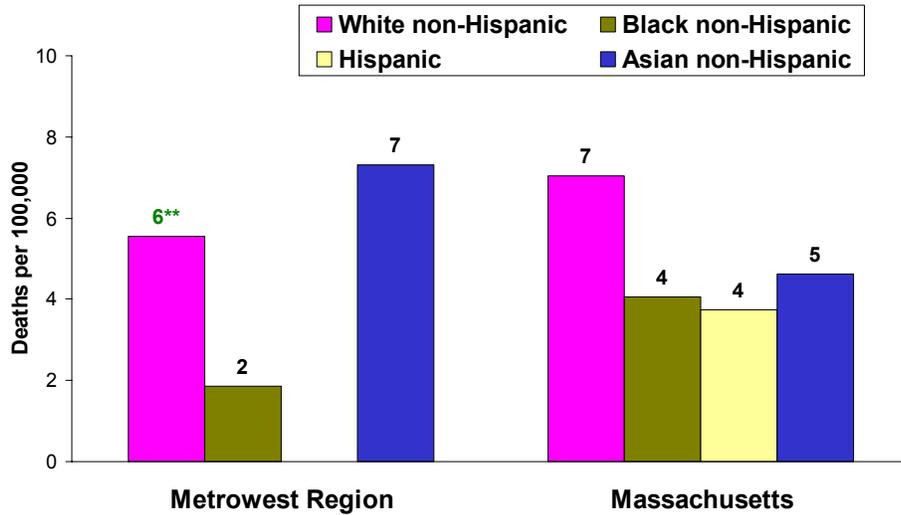
Suicides by EOHHS Region Massachusetts: 2003-2005

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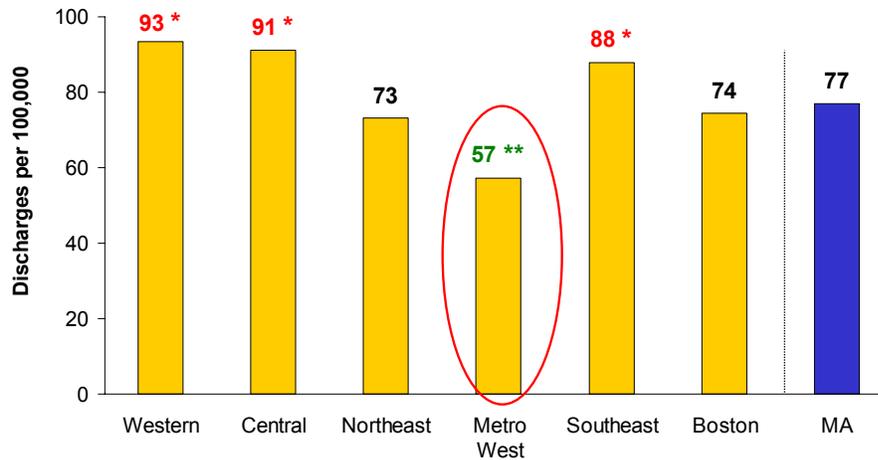
Statistically different from state ($p \leq .05$)– Red (*) Statistically worse than state- Green (**) statistically better than state
 Age-adjusted to the 2000 US standard population.
 Source: MDPH, Health Information, Statistics, Research and Evaluation Bureau, Research & Epidemiology Program

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



Statistically different from state (p ≤ .05)– Red (*) Statistically worse than state- Green (**) statistically better than state
Age-adjusted to the 2000 US standard population.
Source: MDPH, Health Information, Statistics, Research and Evaluation Bureau, Research & Epidemiology Program

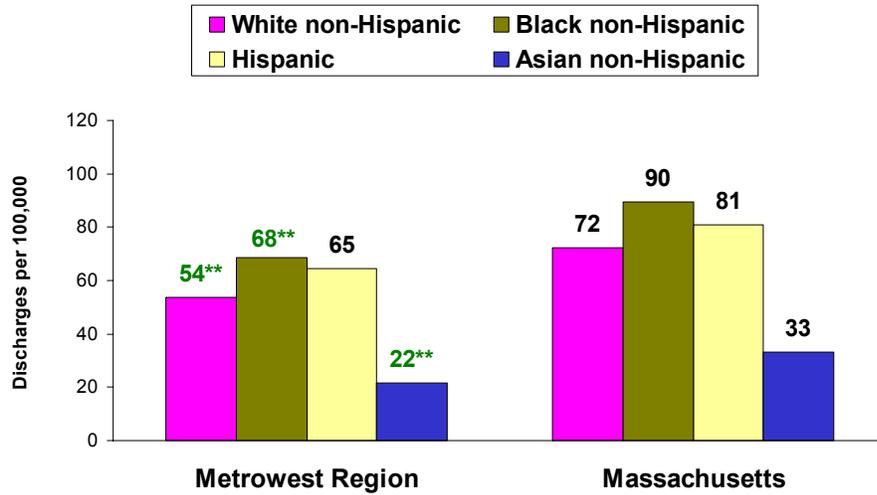
Hospital Discharge Rates for Motor Vehicle-related Injuries by EOHHS Region Massachusetts: 2003-2005



Statistically different from state (p ≤ .05)– Red (*) Statistically worse than state- Green (**) statistically better than state
Age-adjusted to the 2000 US standard population.
Source: MDPH, Health Information, Statistics, Research and Evaluation Bureau, Research & Epidemiology Program

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

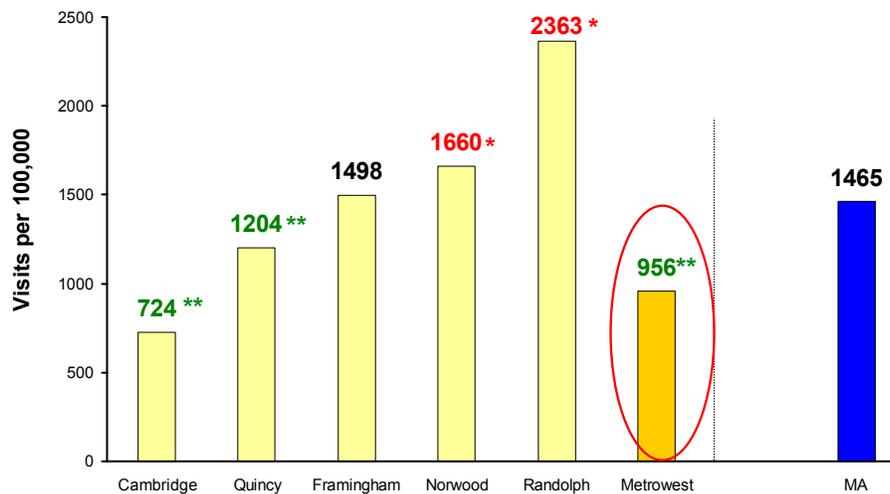
148



Statistically different from state ($p \leq .05$)— Red (*) Statistically worse than state- Green (**) statistically better than state
 Age-adjusted to the 2000 US standard population.
 Source: MDPH, Health Information, Statistics, Research and Evaluation Bureau, Research & Epidemiology Program

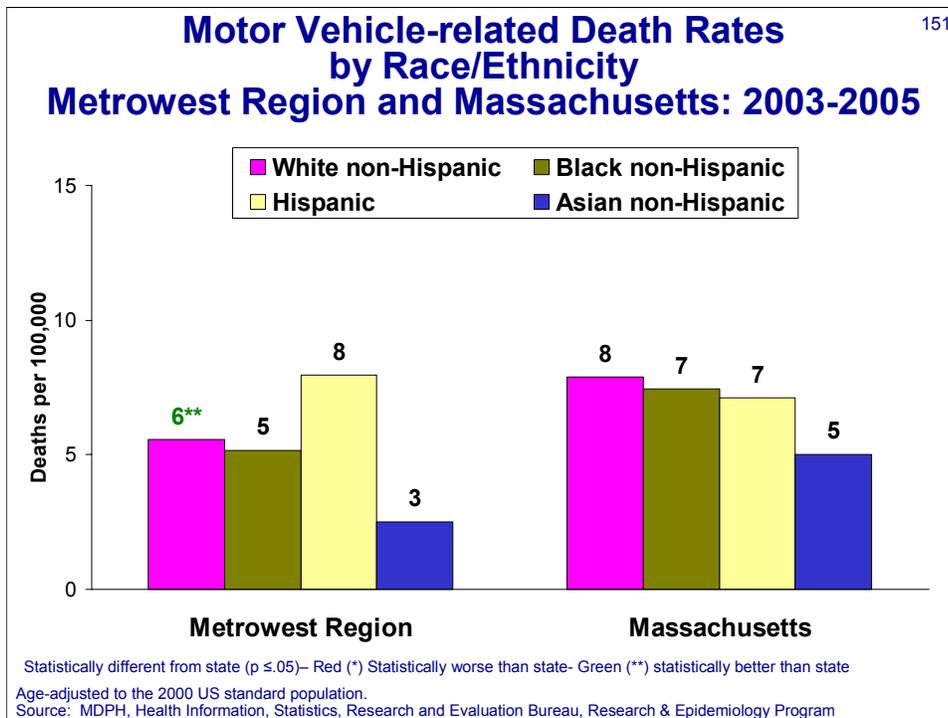
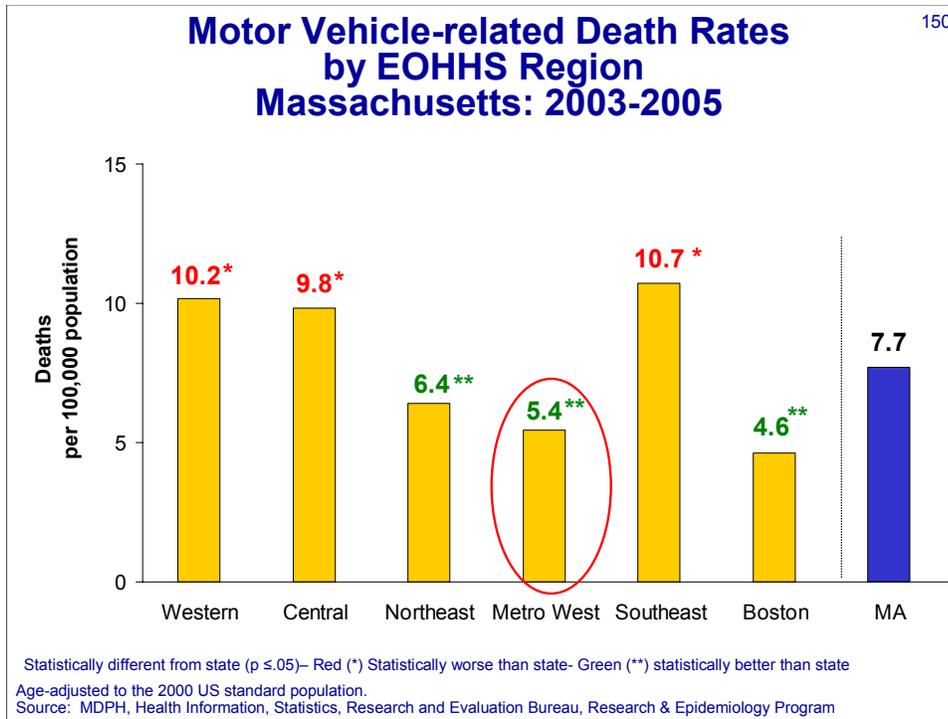
Emergency Department Visit Rates for Motor Vehicle-related Injuries by Metrowest Cities and Massachusetts: 2003-2005

149



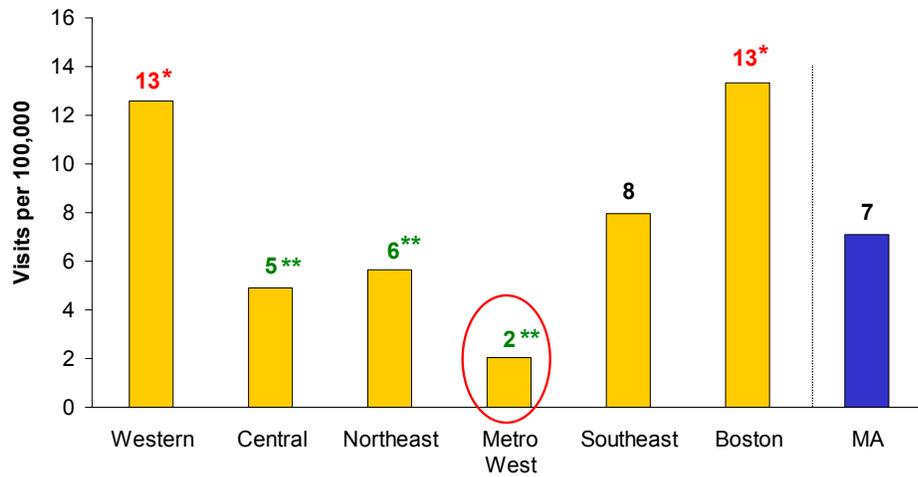
Statistically different from state ($p \leq .05$)— Red (*) Statistically worse than state- Green (**) statistically better than state

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



Emergency Department Visit Rates for Firearm Injuries by EOHHS Region Massachusetts: 2003-2005

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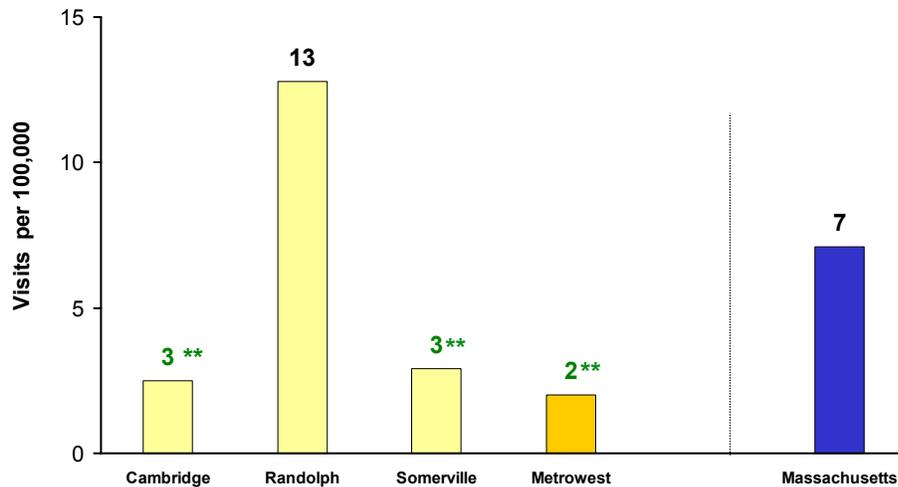
Statistically different from state ($p \leq .05$)– Red (*) Statistically worse than state- Green (**) statistically better than state

Age-adjusted to the 2000 US standard population.

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

Emergency Department Visit Rates for Firearm Injuries by Metrowest Cities and Massachusetts: 2003-2005

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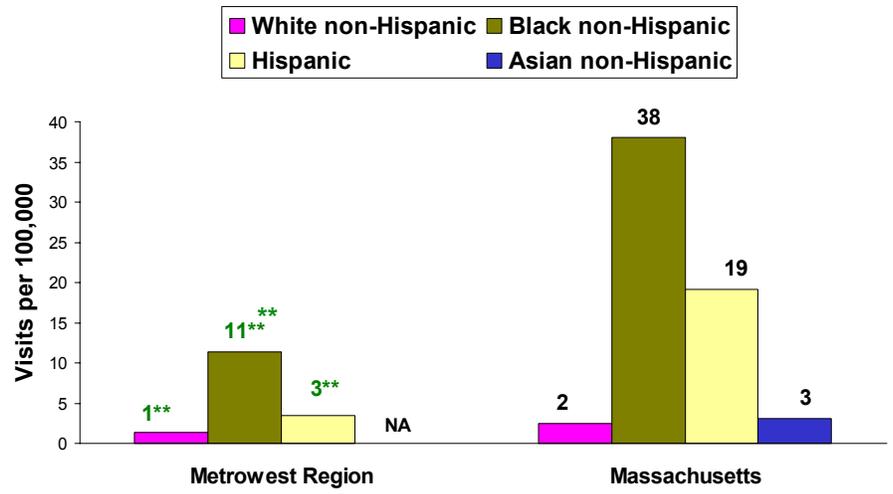


Statistically different from state ($p \leq .05$)– Red (*) Statistically worse than state- Green (**) statistically better than state

Age-adjusted to the 2000 US standard population.

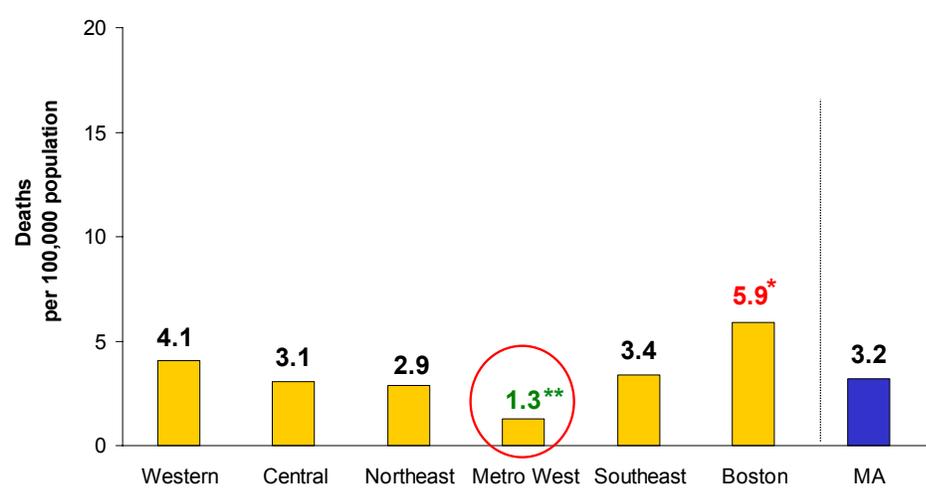
Source: Division of Health Care Finance and Policy. Calendar Year 2003-2005. Emergency Visits

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



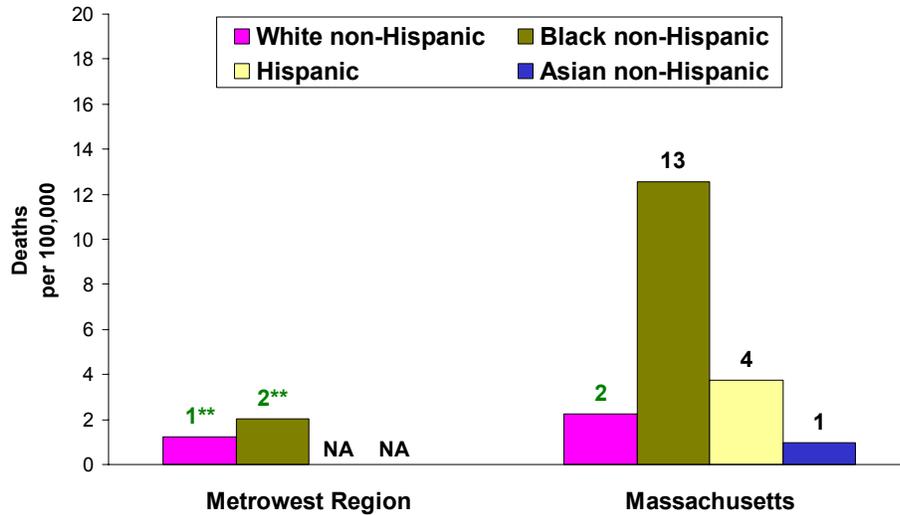
Statistically different from state (p ≤.05)– Red (*) Statistically worse than state- Green (**) statistically better than state
 Age-adjusted to the 2000 US standard population.
 Source: Division of Health Care Finance and Policy. Calendar Year 2003-2005. Emergency Visits

Firearm Death Rates by EOHHS Region Massachusetts: 2003-2005



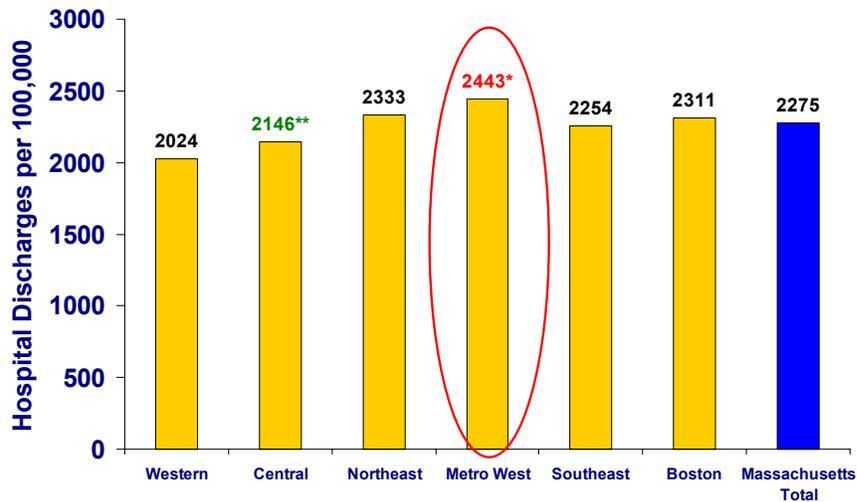
Statistically different from state (p ≤.05)– Red (*) Statistically worse than state- Green (**) statistically better than state
 Age-adjusted to the 2000 US standard population.
 Source: MDPH, Health Information, Statistics, Research and Evaluation Bureau, Research & Epidemiology Program

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



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

Hospitalization Rates for Fall-Related Injuries Ages 65+ by EOHHS Region Massachusetts: 2003-2005

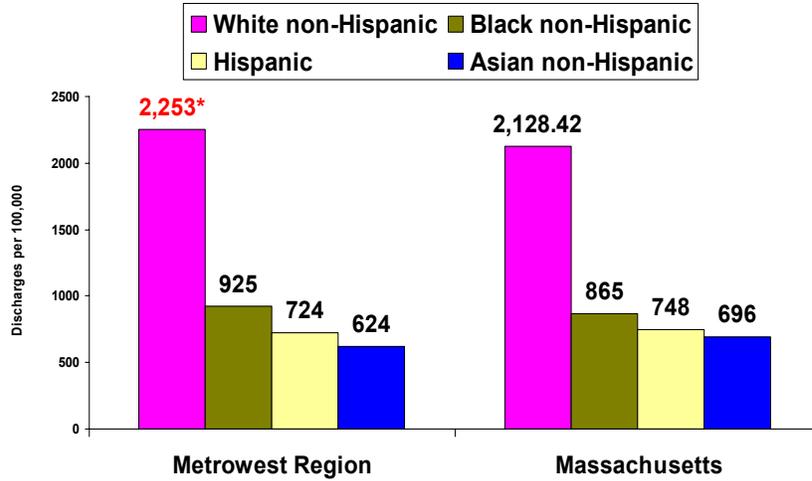


Statistically different from state (p ≤ .05)– Red (*) Statistically worse than state- Green (**) statistically better than state

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

Hospital Discharge Rates for Fall-Related Injuries Ages 65+ by Race/Ethnicity, Metrowest Region and Massachusetts: 2003-2005

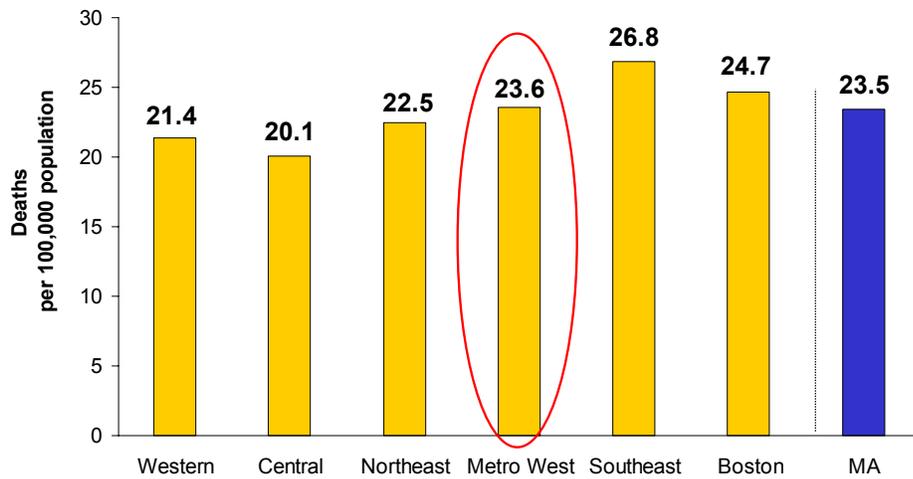
158



Statistically different from state ($p \leq .05$)– Red (*) Statistically worse than state- Green (**) statistically better than state
Age-adjusted to the 2000 US standard population.
Source: MDPH, Health Information, Statistics, Research and Evaluation Bureau, Research & Epidemiology Program

Fall-related Injury Death Rates Persons 65+ Years by EOHHS Region Massachusetts: 2003-2005

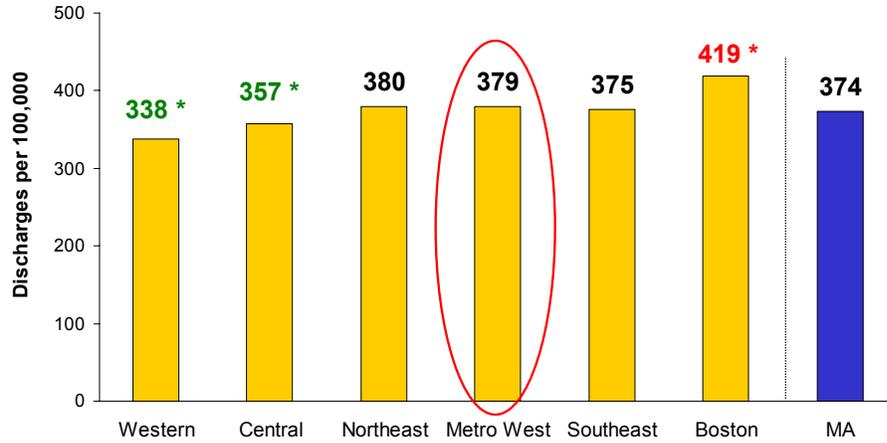
159



Statistically different from state ($p \leq .05$)– Red (*) Statistically worse than state- Green (**) statistically better than state
Age-adjusted to the 2000 US standard population.
Source: MDPH, Health Information, Statistics, Research and Evaluation Bureau, Research & Epidemiology Program

Hospital Discharge Rates for Fall-Related Injuries by EOHHS Region Massachusetts: 2003-2005

160



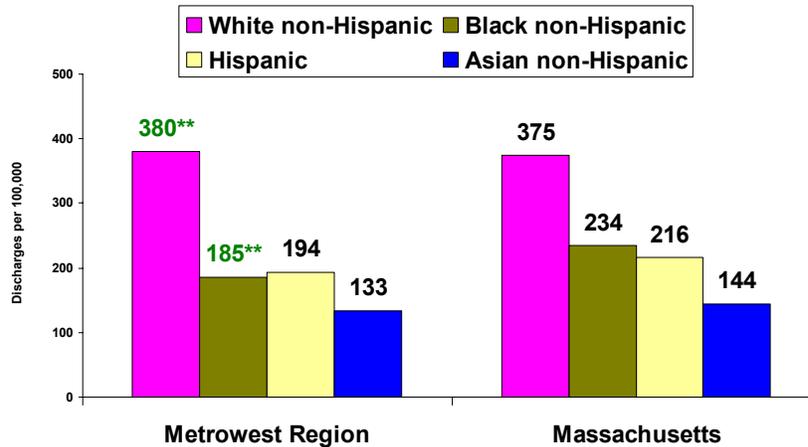
Statistically different from state ($p \leq .05$)– Red (*) Statistically worse than state- Green (**) statistically better than state

Age-adjusted to the 2000 US standard population.

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

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

161



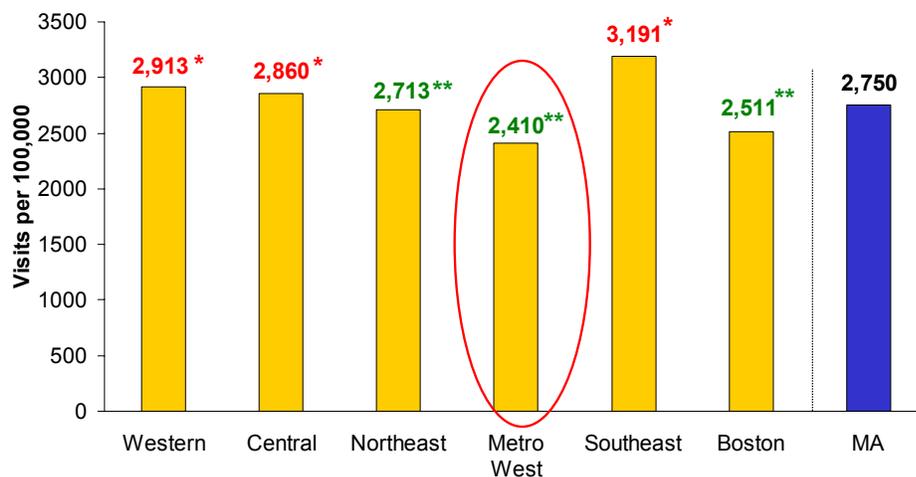
Statistically different from state ($p \leq .05$)– Red (*) Statistically worse than state- Green (**) statistically better than state

Age-adjusted to the 2000 US standard population.

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

Emergency Department Visit Rates for Fall-Related Injuries by EOHHS Region Massachusetts: 2003-2005

162



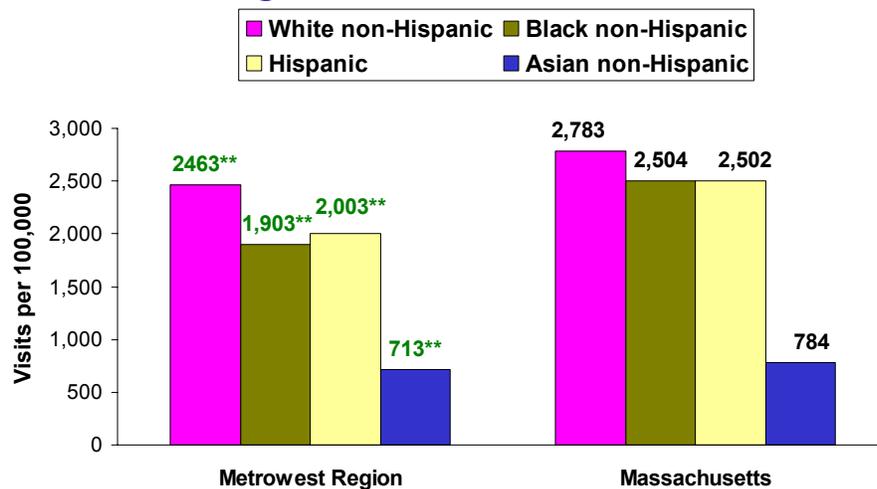
Statistically different from state ($p \leq .05$)– Red (*) Statistically worse than state- Green (**) statistically better than state

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 Fall-Related Injuries by Race/Ethnicity Metrowest Region and Massachusetts: 2003-2005

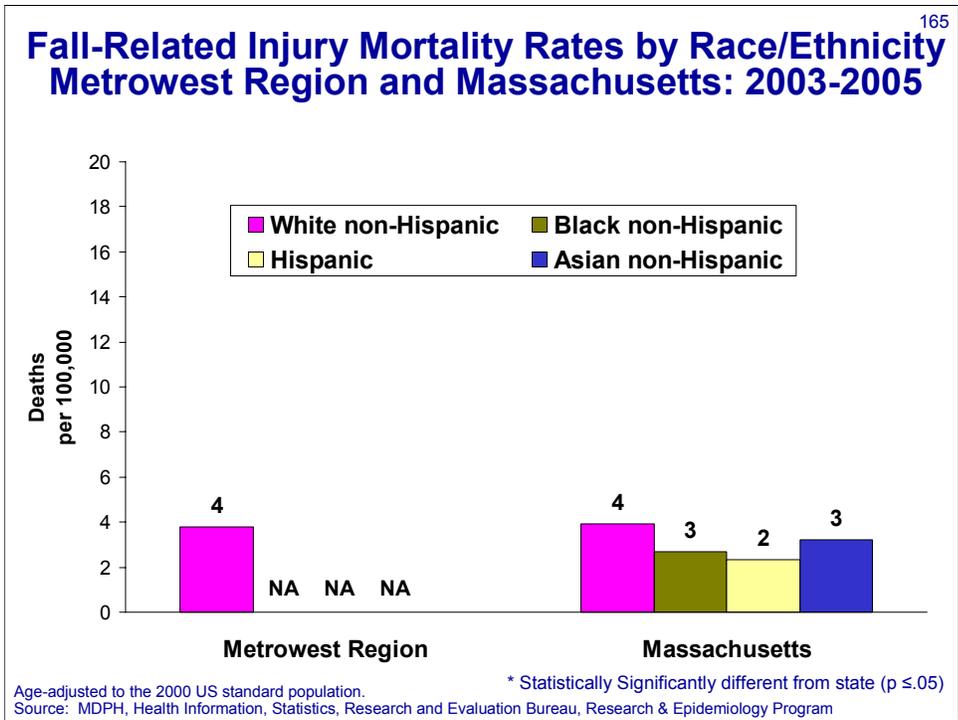
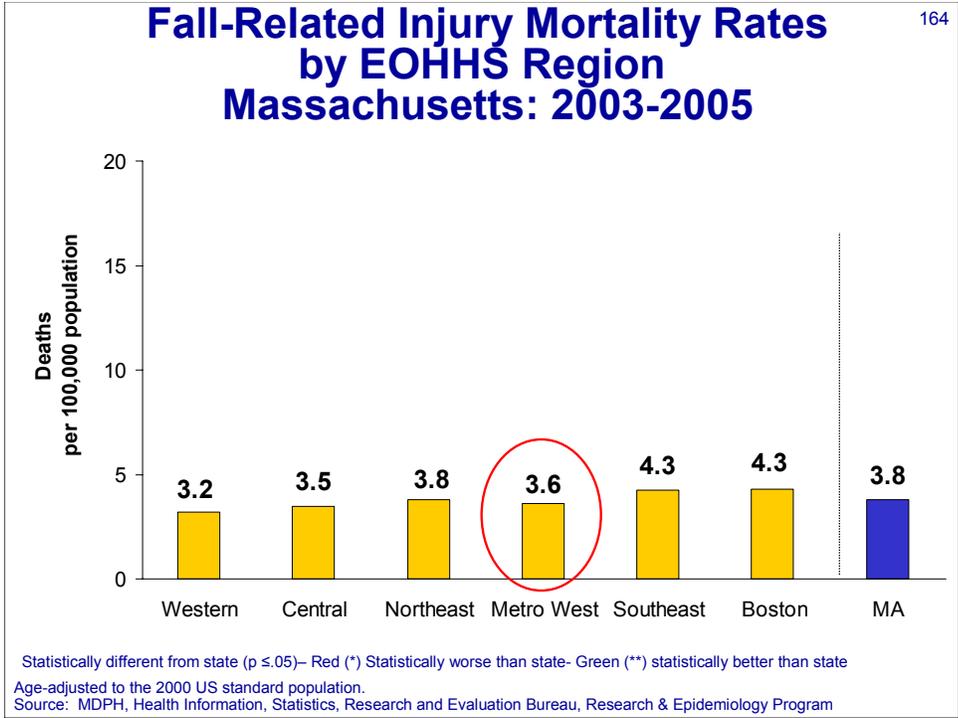
163



Statistically different from state ($p \leq .05$)– Red (*) Statistically worse than state- Green (**) statistically better than state

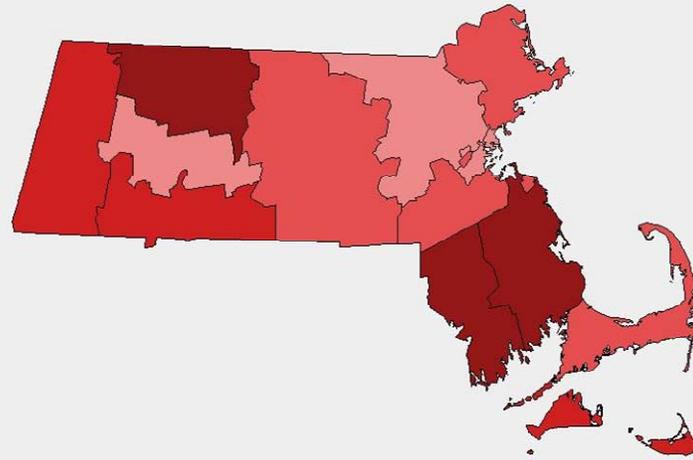
Age-adjusted to the 2000 US standard population.

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



Work—related Injuries

Emergency Department Visits per 100 Full Time Equivalents.
Massachusetts Counties, 2004—2005

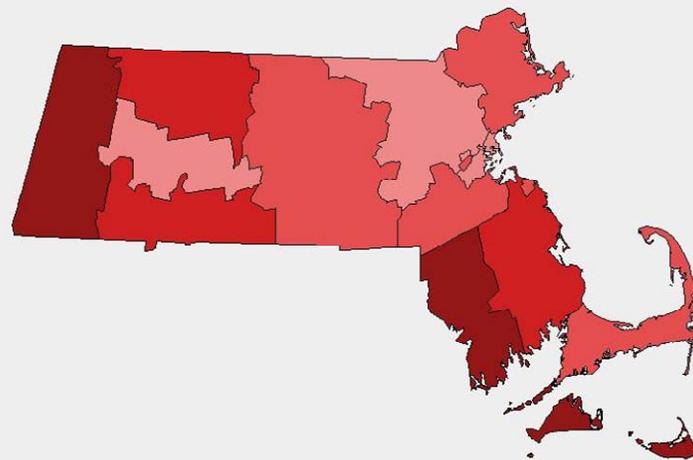


Work—related ED Visits/100 FTEs

1.00 – 1.45	1.64 – 2.87
2.89 – 3.11	3.51 – 3.93

Work—related Injuries among Teens

Emergency Department Visits per 100 Full Time Equivalents
Massachusetts Counties, 2004—2005

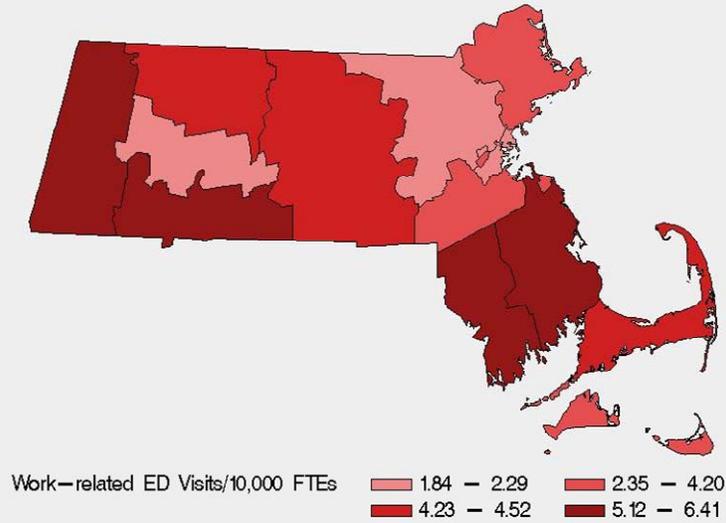


Work—related ED Visits/100 FTEs

0.53 – 1.72	2.13 – 3.98
4.99 – 5.53	6.33 – 8.19

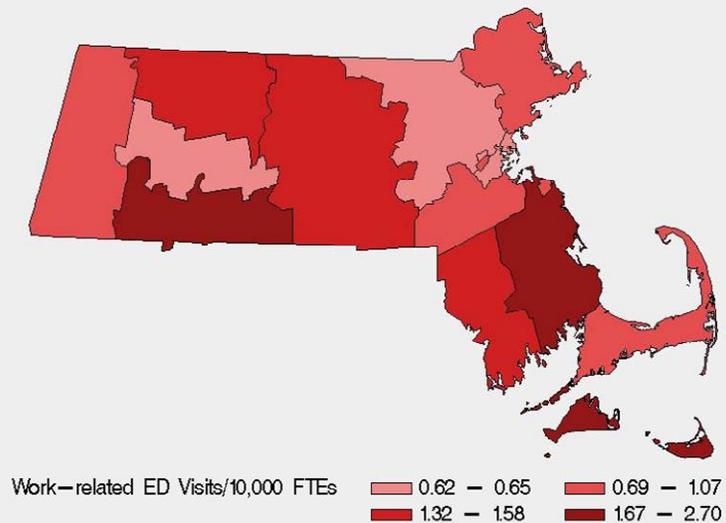
Work-related Burn Injuries

Emergency Department Visits per 10,000 Full Time Equivalents
Massachusetts Counties, 2004–2005



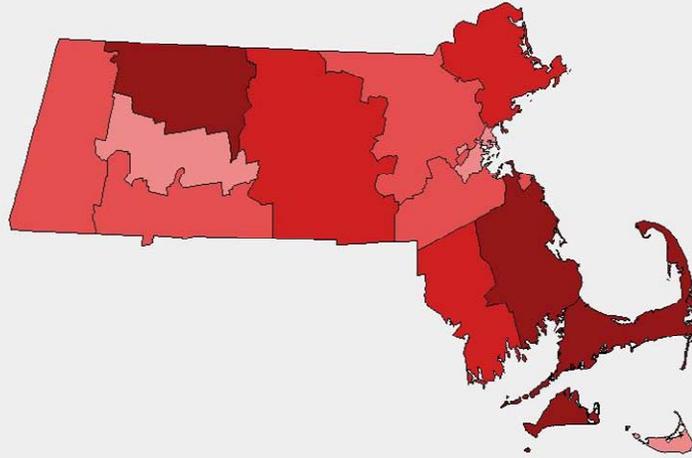
Work-related Amputations

Emergency Department Visits per 10,000 Full Time Equivalents
Massachusetts Counties, 2004–2005



Work-related Injuries

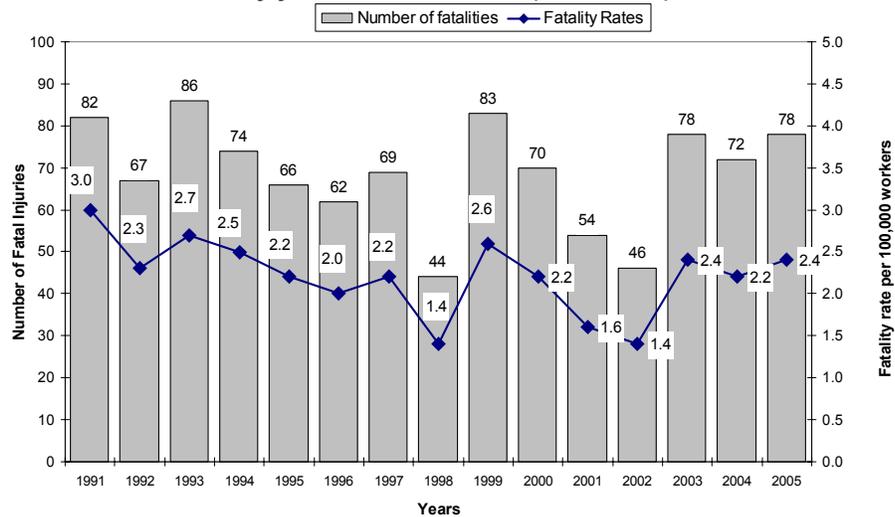
Hospitalizations per 10,000 Full Time Equivalents.
Massachusetts Counties, 2004-2005



Work-related Hospitalizations/10,000 FTEs

150 - 2.52	2.69 - 4.37
4.54 - 5.26	5.49 - 6.76

Number and Rate of Fatal Occupational Injuries by year, Massachusetts (1991- 2005)



Data Source: Census of Fatal Occupational Injuries (CFOI) 1991-2005, Occupational Health Surveillance Program, MA Dept. of Public Health. MA employment data from BLS Current Population Survey (1991 - 2005) was used to calculate rates.

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Summary Injury/Violence Hospitalization Indicators by EOHHS Regions, Massachusetts: 2003-2005

Hospital Discharge Indicator Rates (age-adjusted)	MA Total	Western	Central	Northeast	Metro West	South East	Boston
All Injuries	836	872	830	836	753	859	966
Fall-related Injury, Ages 65pls	2,275	2,024	2,146	2,333	2,443	2,254	2,311
Traumatic Brain Injuries	80	93	97	82	65	73	94
Motor vehicle-related	77	93	91	73	57	88	74
Self-Inflicted	65	92	63	68	48	66	65
Assault	28	34	24	23	14	21	72

■ Better Outcome (significantly different from state)
 ■ Worse Outcome (significantly different from state)

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

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Summary Injury/Violence Emergency Department Indicators by EOHHS Regions, Massachusetts: 2003-2005

Indicator Age-adjusted Rate per 100,00	MA Total	Western	Central	Northeast	Metro West	South East	Boston
ER Visit Rate for all Injuries	11,298	12,323	11,379	11,195	9,112	13,996	10,539
ER Visit Rate for Traumatic Brain Injury	604	461	646	662	563	653	640
ER Visit Rate for Firearm	7	13	5	6	2	8	13
ER Visit Rate for Fall-related injuries	2,750	2,913	2,860	2,713	2,410	3,191	2,511

■ Better Outcome (significantly different from state)
 ■ Worse Outcome (significantly different from state)

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

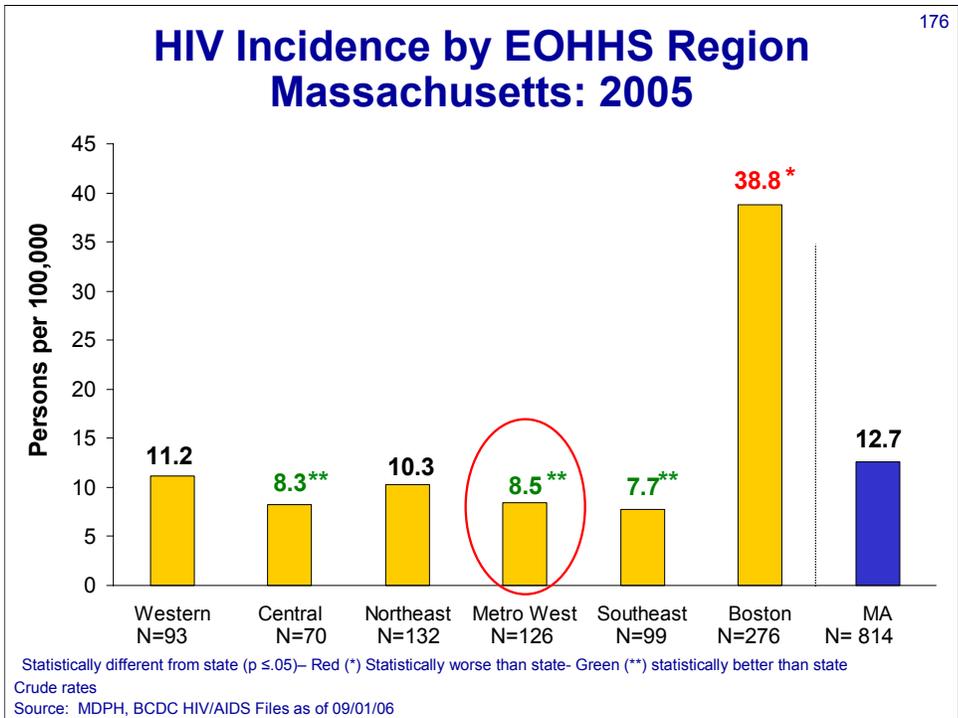
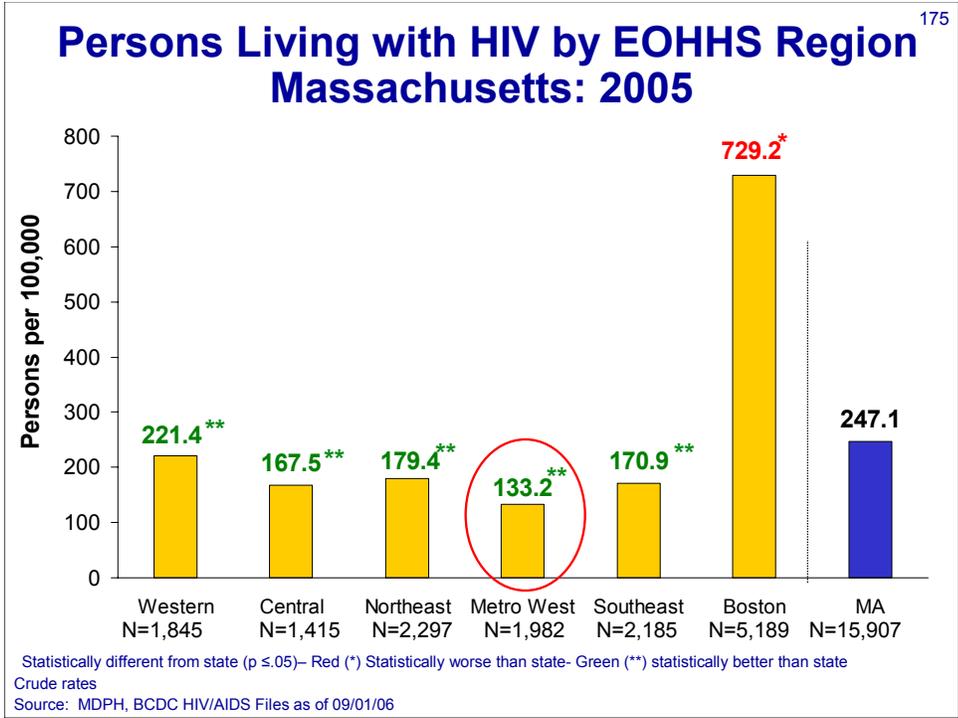
Summary Injury/Violence Mortality Indicators¹⁷⁴ by EOHS Regions, Massachusetts: 2003-2005

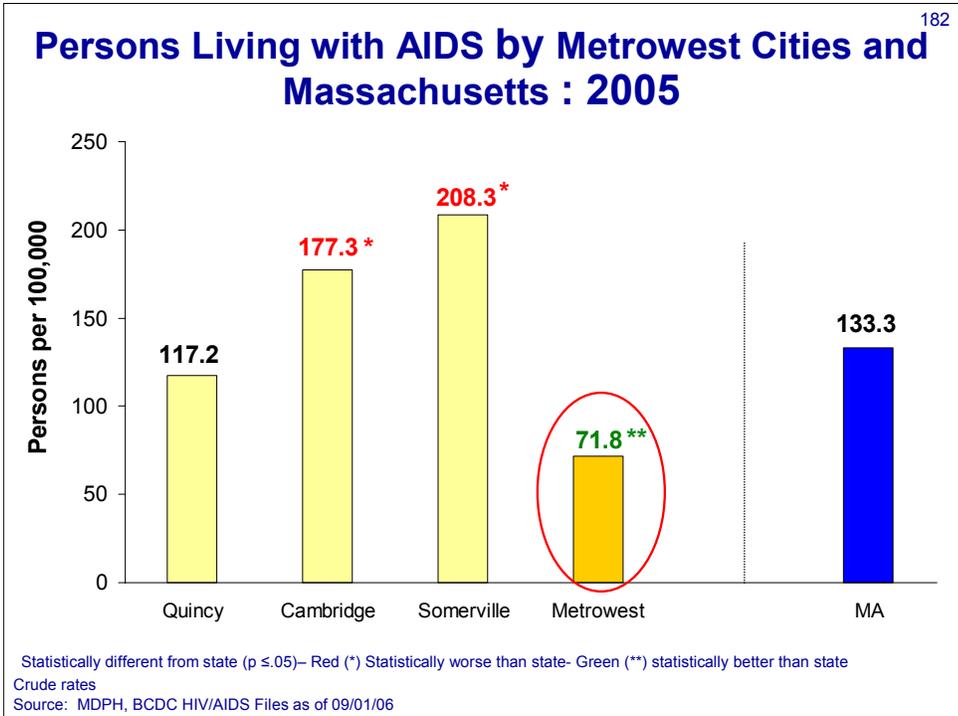
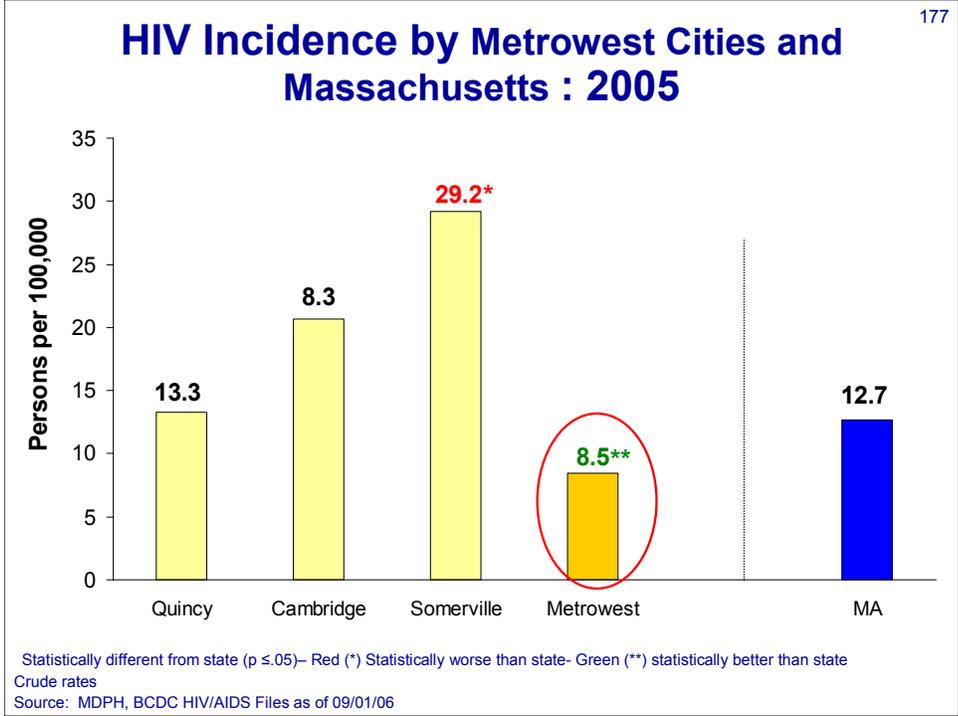
Mortality Indicator <small>Age-adjusted Rate per 100,000</small>	MA Total	Western	Central	Northeast	Metro West	South East	Boston
Homicide Death Rate	2.6	3.3	1.7	1.8	0.7	2.6	7.3
Suicide Death Rate	6.6	7.9	7.2	7.4	5.3	6.9	5.5
Motor Vehicle-related Death Rate	7.7	10.2	9.8	6.4	5.4	10.7	4.6
Firearm Death Rate	3.2	4.1	3.1	2.9	1.3	3.4	5.9
Fall-related Injury Death Rate	3.8	3.2	3.5	3.8	3.6	4.3	4.3

■ Better Outcome (significantly different from state)
 ■ Worse Outcome (significantly different from state)

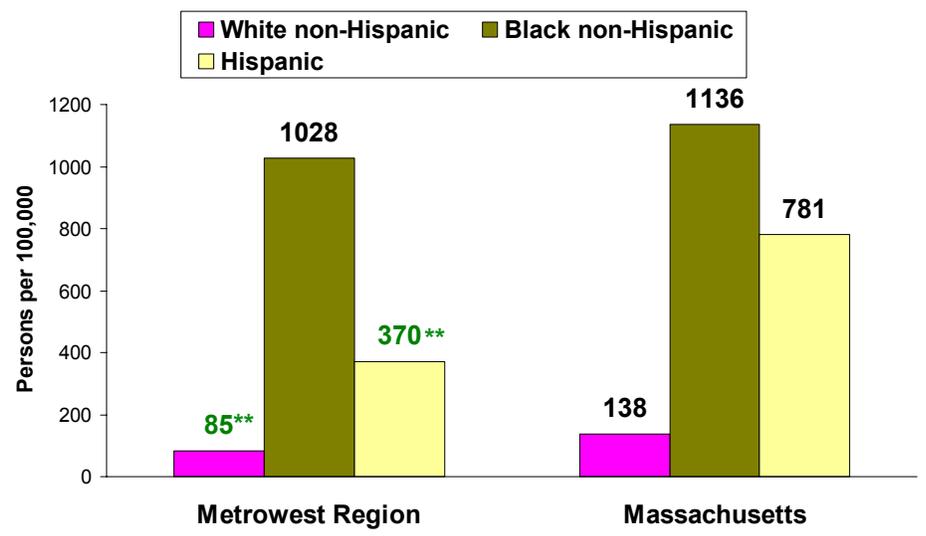
Source: MDPH, Health Information, Statistics, Research and Evaluation Bureau, Research & Epidemiology Program

HIV/AIDS



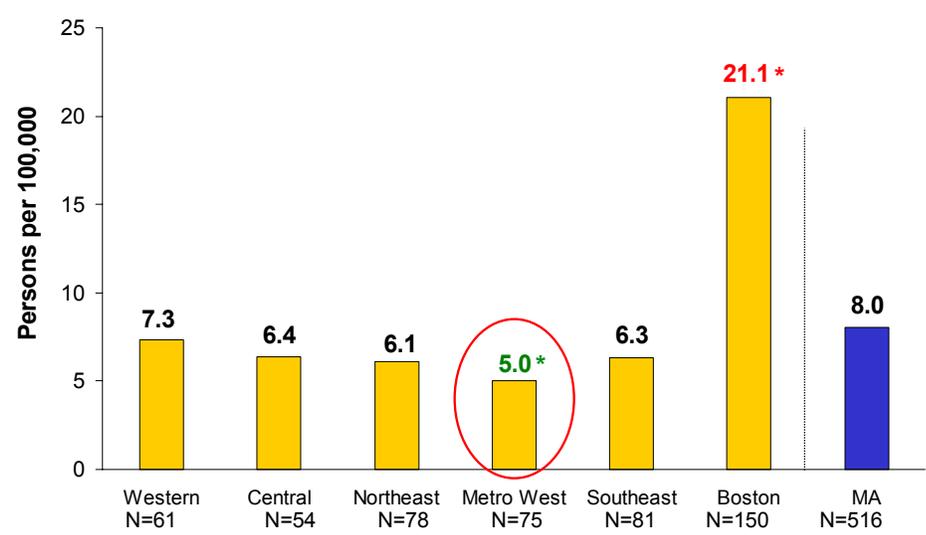


Persons Living with HIV by Race/Ethnicity Metrowest Region and Massachusetts : 2005



Statistically different from state (p ≤.05)– Red (*) Statistically worse than state- Green (**) statistically better than state
 Crude rates
 Source: MDPH, BCDC HIV/AIDS Files as of 09/01/06

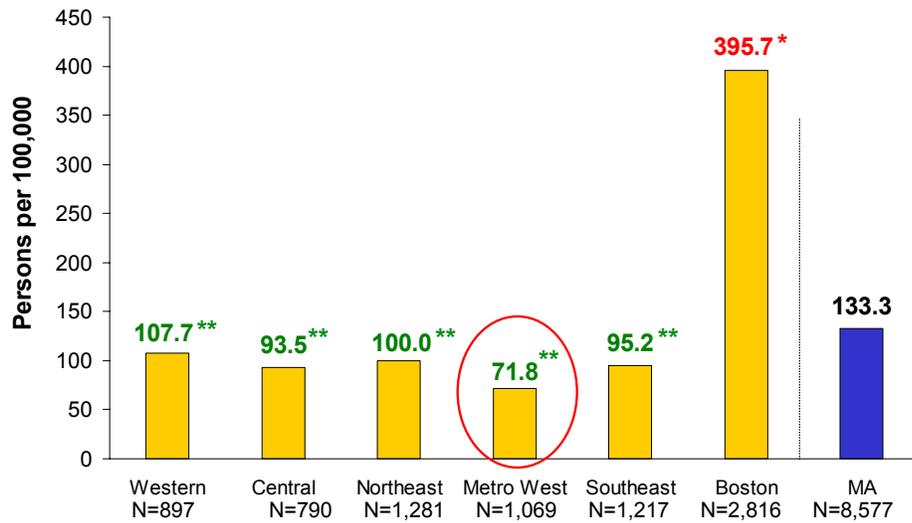
AIDS Incidence by EOHHS Region Massachusetts: 2005



Statistically different from state (p ≤.05)– Red (*) Statistically worse than state- Green (**) statistically better than state
 Crude rates
 Source: MDPH, BCDC HIV/AIDS Files as of 09/01/06

Persons Living with AIDS by EOHHS Region Massachusetts: 2005

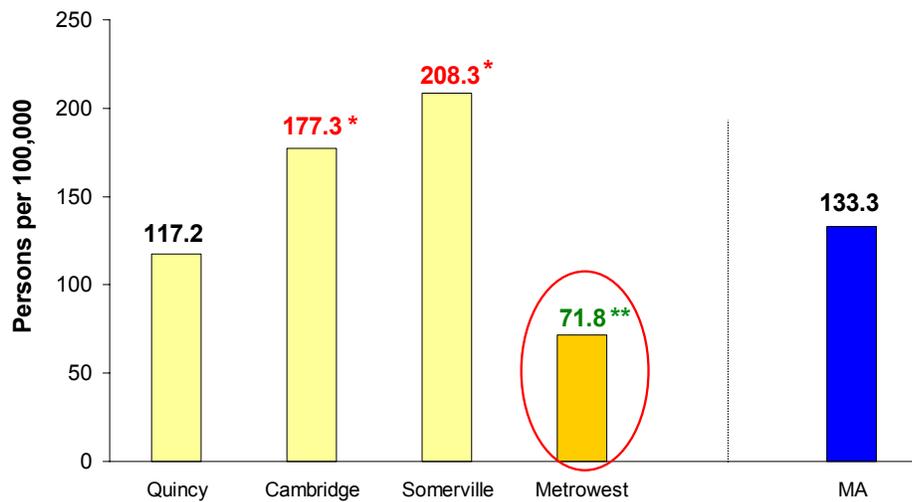
181



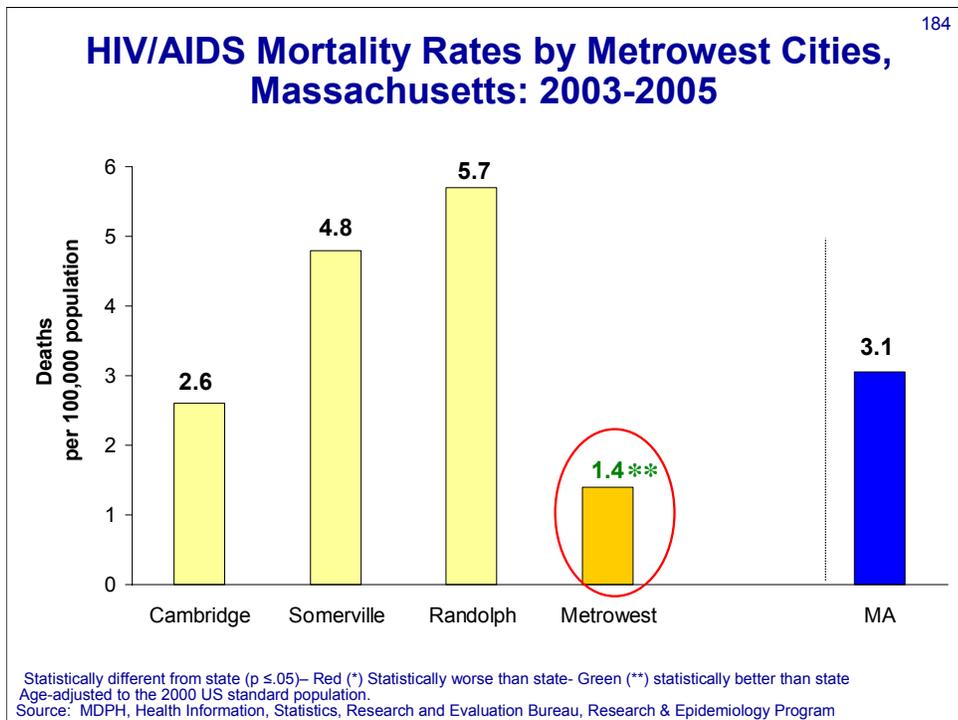
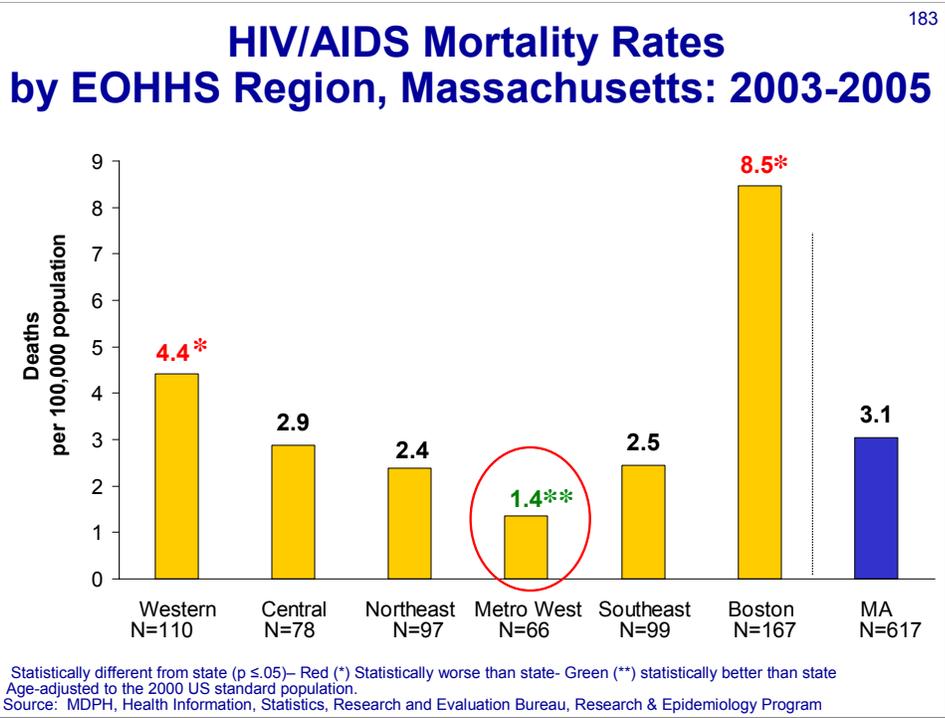
Statistically different from state ($p \leq .05$)– Red (*) Statistically worse than state- Green (**) statistically better than state
Crude rates
Source: MDPH, BCDC HIV/AIDS Files as of 09/01/06

Persons Living with AIDS by Metrowest Cities and Massachusetts : 2005

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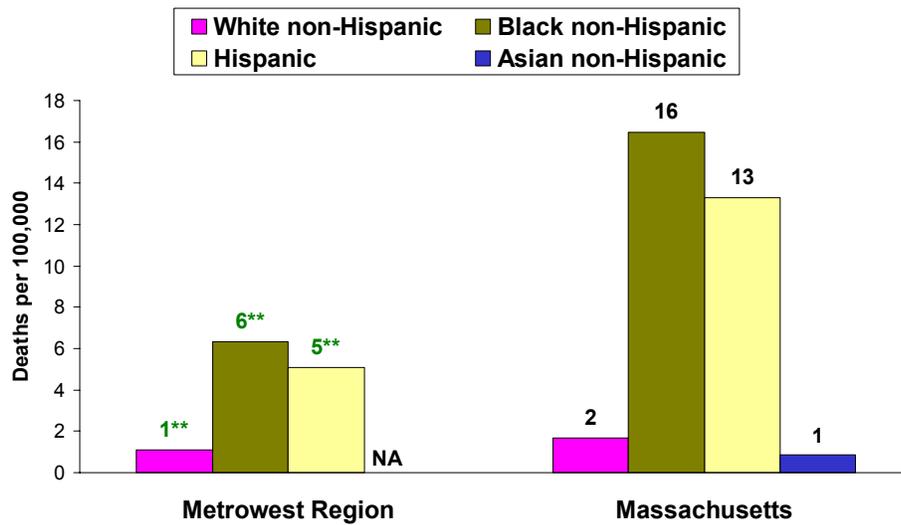


Statistically different from state ($p \leq .05$)– Red (*) Statistically worse than state- Green (**) statistically better than state
Crude rates
Source: MDPH, BCDC HIV/AIDS Files as of 09/01/06



HIV/AIDS Death Rate by Race/Ethnicity Metrowest Region and Massachusetts: 2003-2005

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Statistically different from state ($p \leq .05$)– Red (*) Statistically worse than state- Green (**) statistically better than state
Age-adjusted to the 2000 US standard population.
Source: MDPH, Health Information, Statistics, Research and Evaluation Bureau, Research & Epidemiology Program

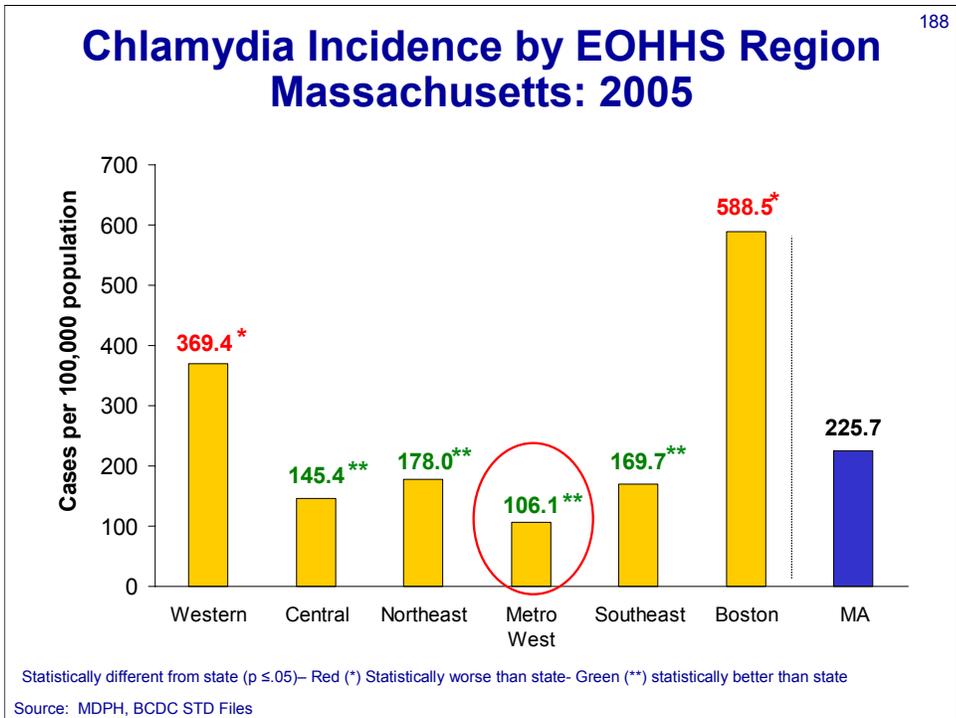
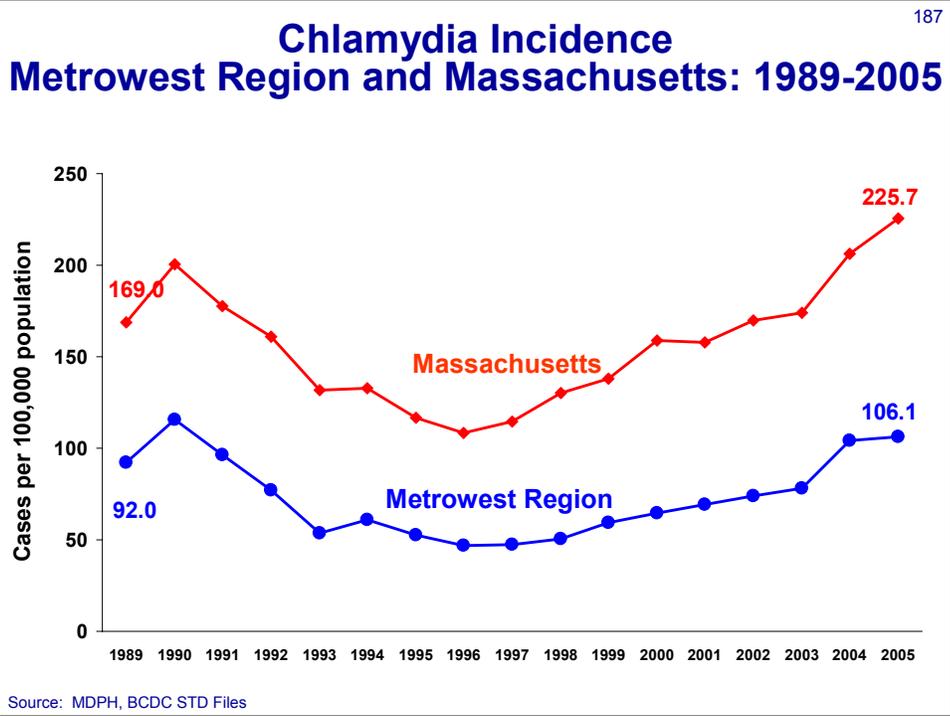
Summary HIV/AIDS Indicators by EOHHS Regions

186

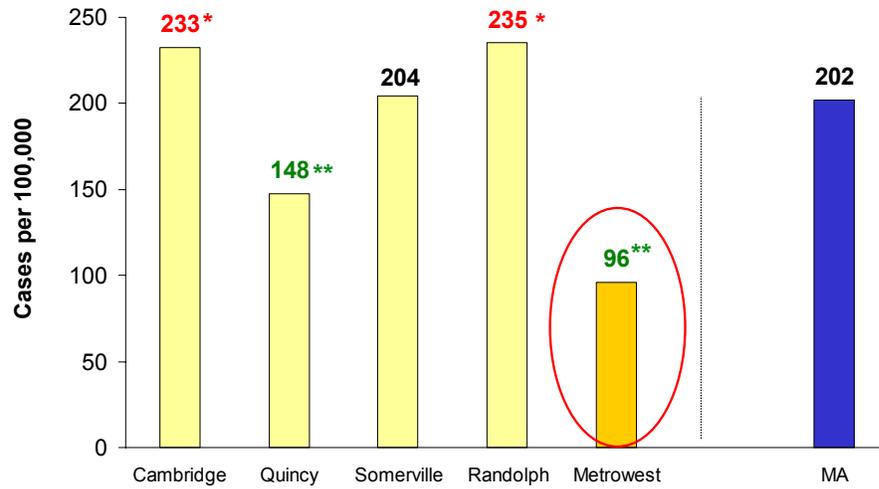
Indicator	MA Total	Western	Central	Northeast	Metro West	South East	Boston
Crude rate, per 100,000							
Persons living with HIV (2005)	247.1	221.4	167.5	179.4	133.1	170.9	729.2
HIV Incidence(2005)	12.6	11.2	8.3	10.3	8.5	7.7	38.8
Persons living with AIDS (2005)	133.2	107.7	93.5	100.0	71.8	95.2	395.7
AIDS Incidence (2005)	8.0	7.3	6.4	6.1	5.0	6.3	21.1
HIV/AIDS Mortality (2003-2005)	3.1	4.4	2.9	2.4	1.4	2.5	8.5

■ Better Outcome (significantly different from state) ■ Worse Outcome (significantly different from state)

INFECTIOUS DISEASES

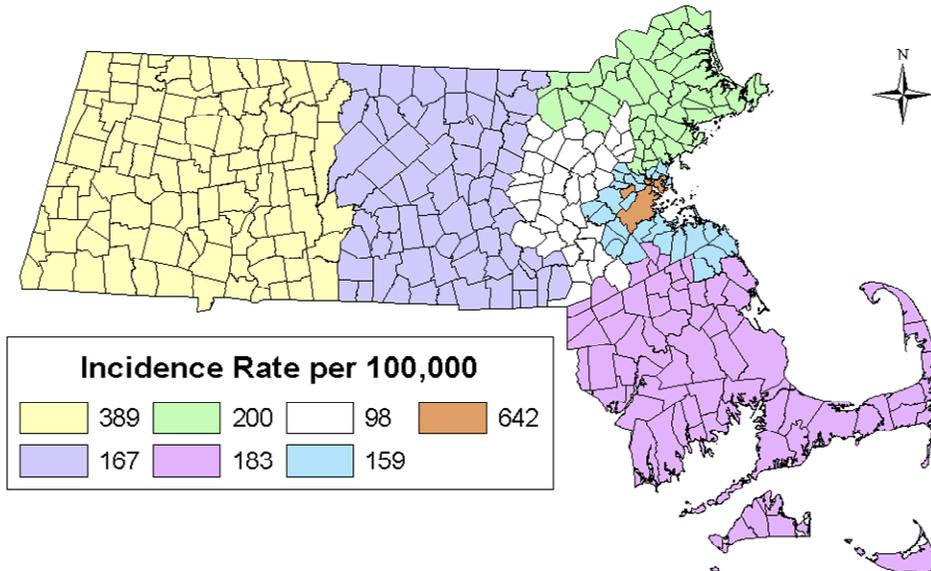


Chlamydia Incidence by Metrowest Cities and Massachusetts: 2003-2005



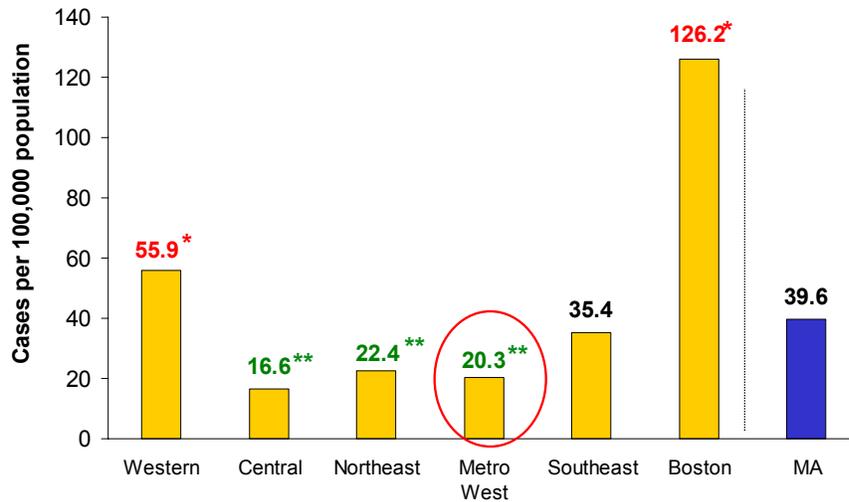
Statistically different from state ($p \leq .05$)— Red (*) Statistically worse than state- Green (**) statistically better than state
 Crude rates
 Source: MDPH, BCDC STD Files

Chlamydia Incidence Rate by Emergency Preparation Region, 2006



Gonorrhea Incidence by EOHHS Region Massachusetts: 2005

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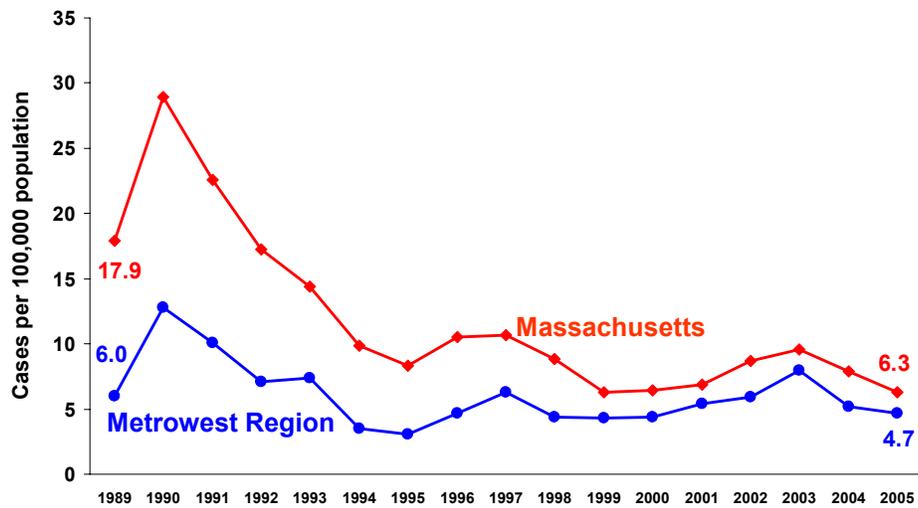


Statistically different from state ($p \leq .05$)— Red (*) Statistically worse than state- Green (**) statistically better than state

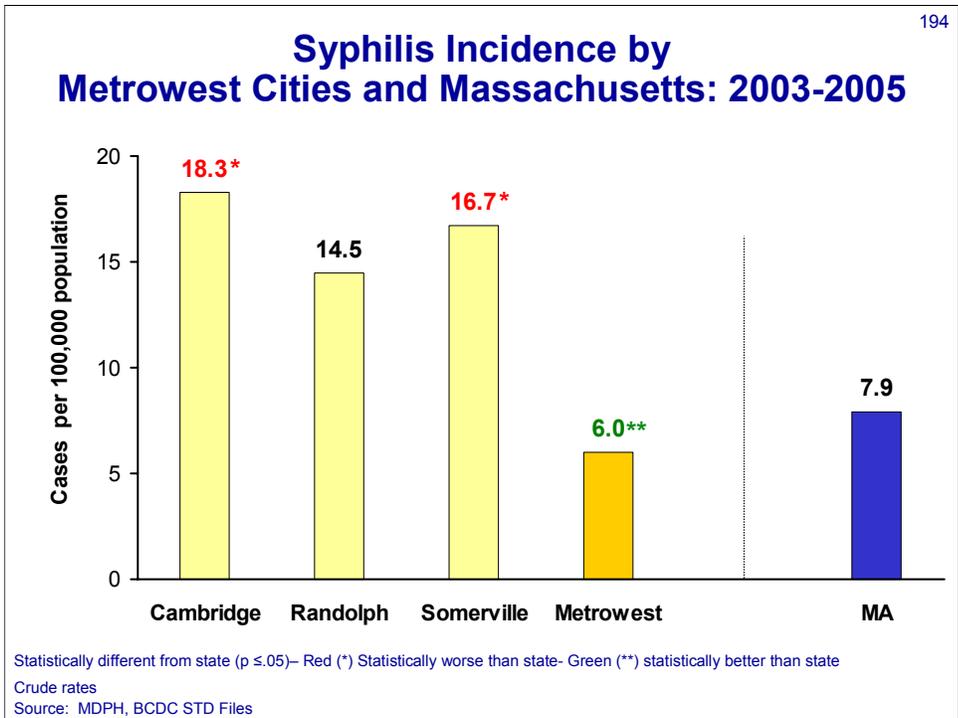
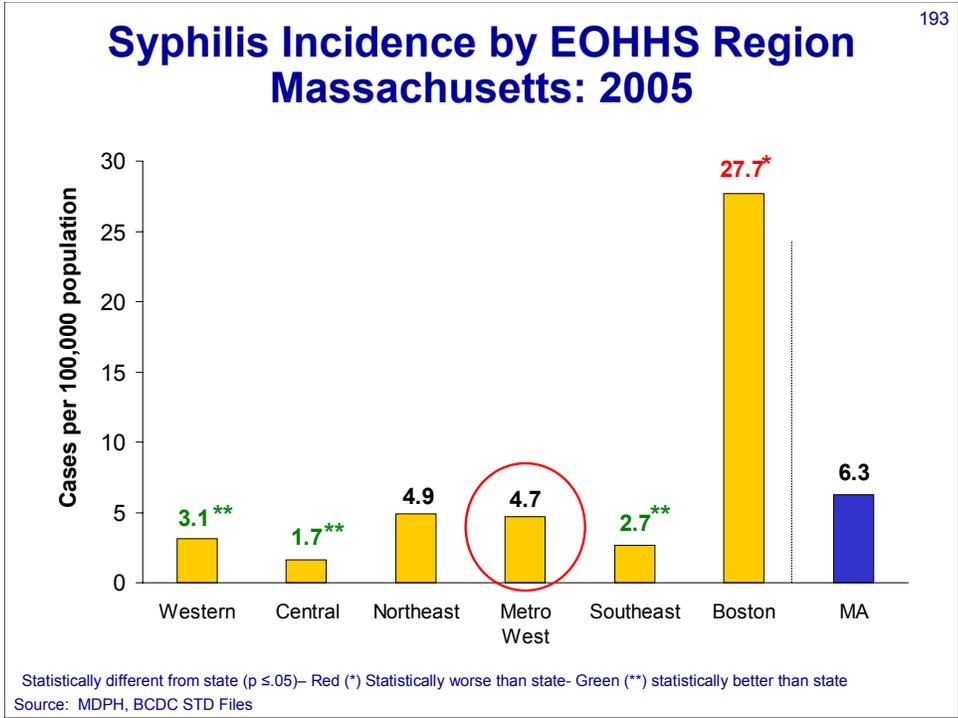
Source: MDPH, BCDC STD Files

Syphilis Incidence Metrowest Region and Massachusetts: 1989-2005

192

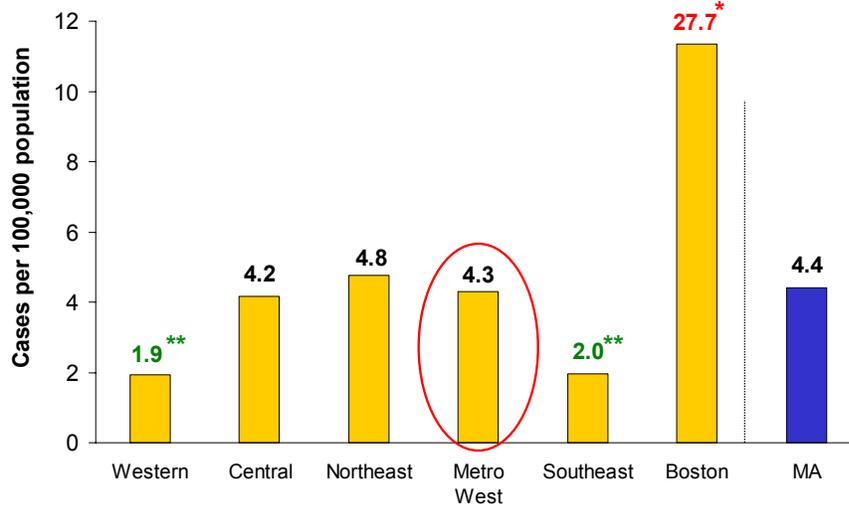


Source: MDPH, BCDC STD Files



Tuberculosis Incidence by EOHHS Region Massachusetts: 2004

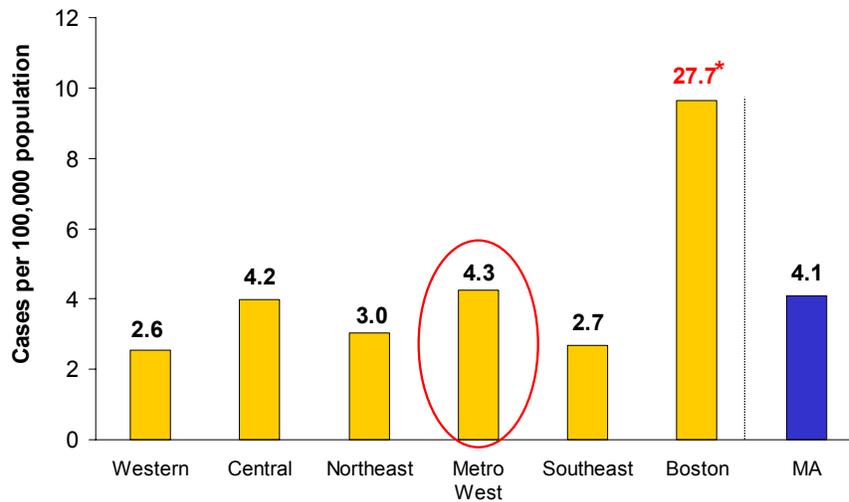
195



Statistically different from state ($p \leq .05$) – Red (*) Statistically worse than state- Green (**) statistically better than state
Source: MDPH Bureau of Communicable Disease Control, ISIS

Tuberculosis Incidence by EOHHS Region Massachusetts: 2006

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

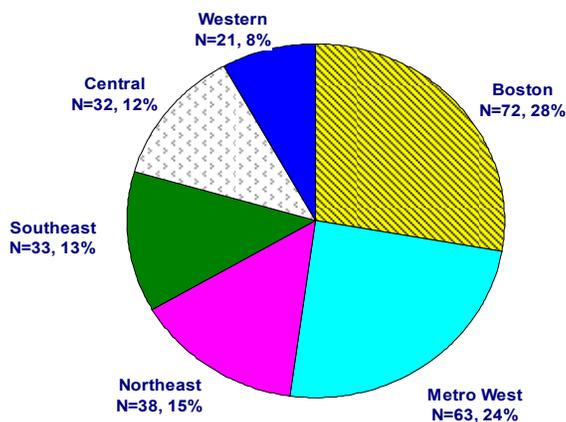
Source: MDPH Bureau of Communicable Disease Control, ISIS

Confirmed Tuberculosis Cases by Race/Ethnicity and EOHHS Region Massachusetts: 2006

EOHHS Region	White non-Hispanic	Black non-Hispanic	Asian/Pacific Islander	Hispanic
West	<5	<5	8	<5
Central	<5	6	14	10
Northeast	5	6	19	6
Metro Boston	21	20	21	13
Boston	8	26	19	8
Southeast	14	9	<5	8

Source: MDPH Bureau of Communicable Disease Control, ISIS

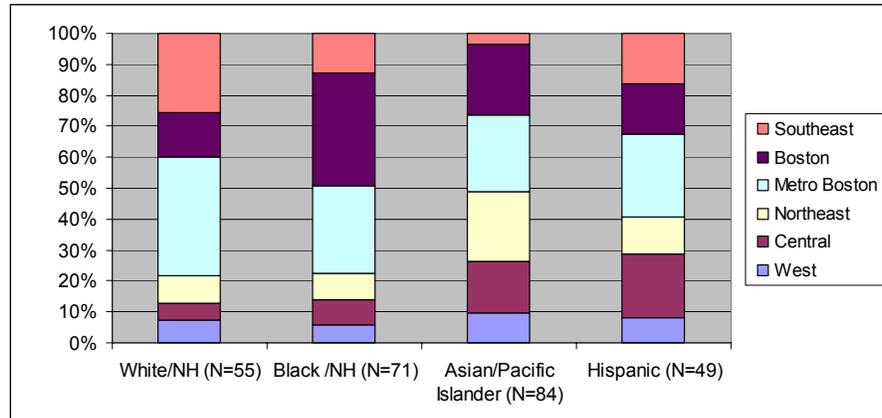
Percent of Confirmed Tuberculosis Cases by EOHHS Region Massachusetts: 2006 (N = 259)



Source: MDPH Bureau of Communicable Disease Control, ISIS

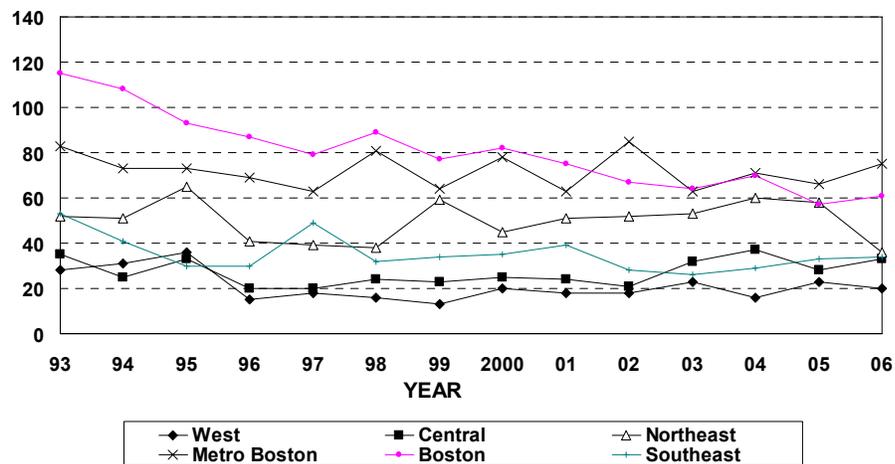
Percent of Confirmed Tuberculosis Cases by Race/Ethnicity and EOHHS Region Massachusetts: 2006

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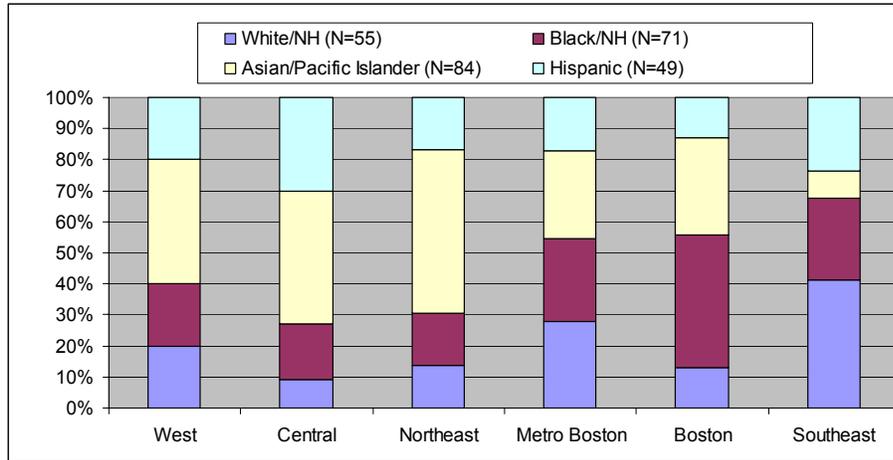
Source: MDPH Bureau of Communicable Disease Control, ISIS

Tuberculosis Cases by EOHHS Region Massachusetts: 1993-2006



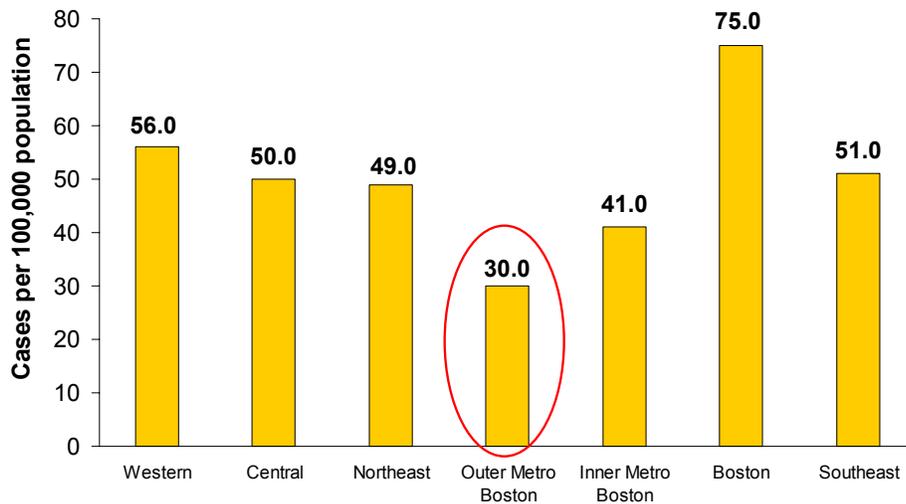
Source: MDPH Bureau of Communicable Disease Control, ISIS

Percent of Confirmed Tuberculosis Cases by Race/Ethnicity and EOHS Region Massachusetts: 2006



Source: MDPH Bureau of Communicable Disease Control, ISIS

Hepatitis C Average Incidence Rates by EOHS Region, Massachusetts: 1992-2006¹

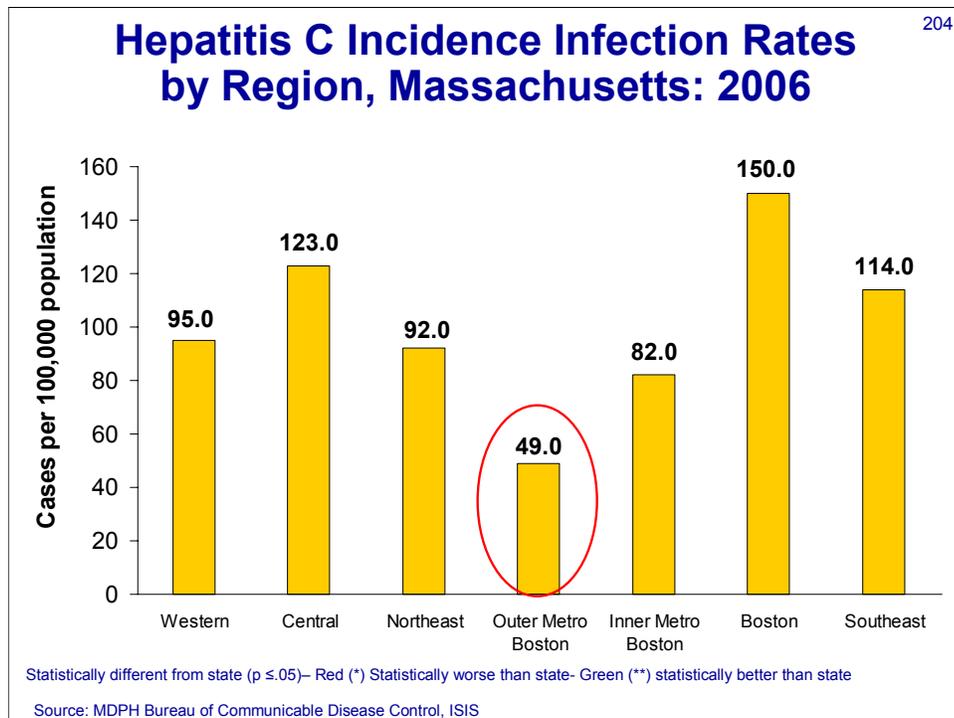
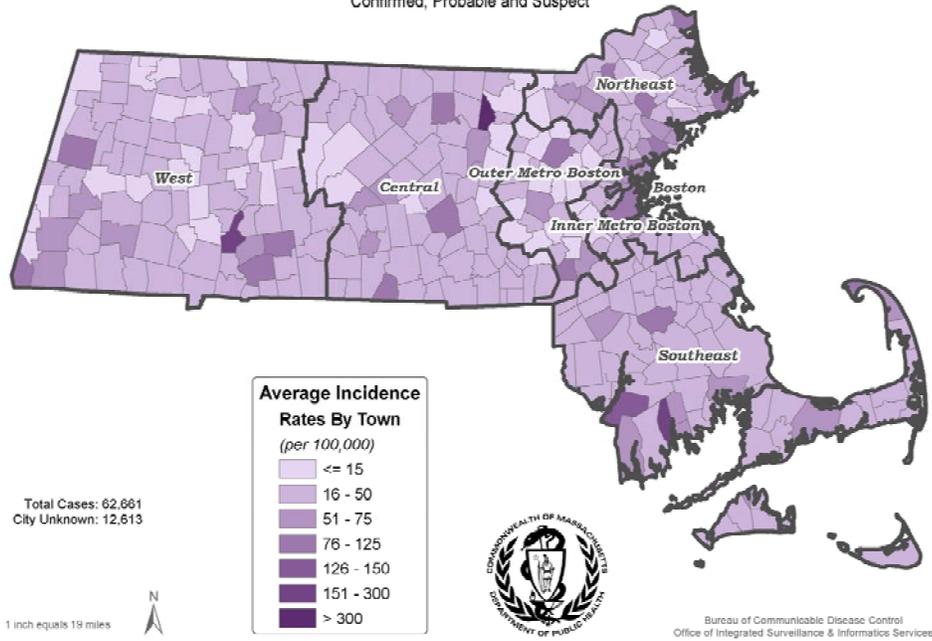


¹ Data as of March 17, 2007

Statistically different from state ($p \leq .05$)— Red (*) Statistically worse than state- Green (**) statistically better than state

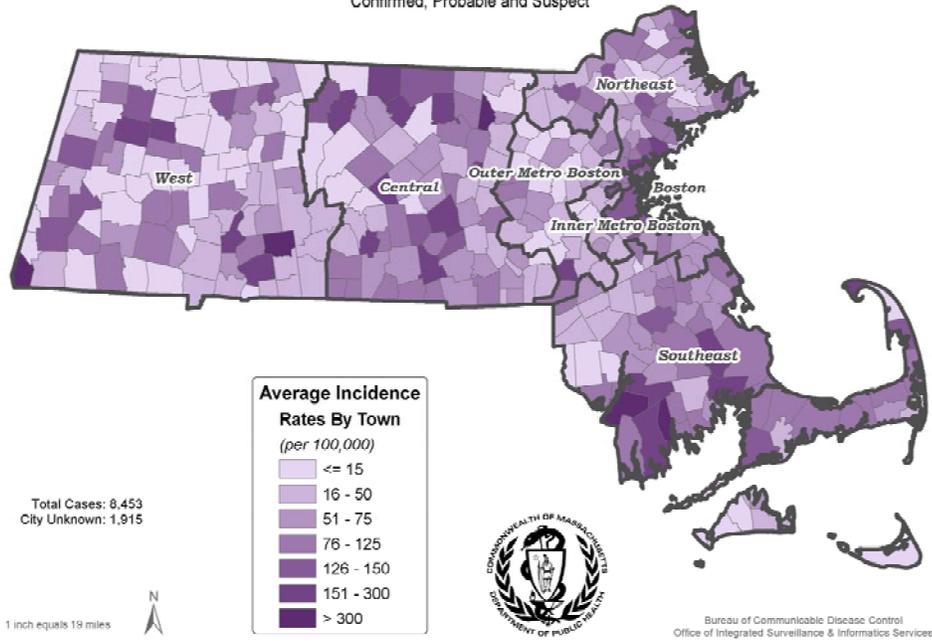
Source: MDPH Bureau of Communicable Disease Control, ISIS

Massachusetts Hepatitis C Infection Average Incidence Rates
By Town (1992-2006)
Confirmed, Probable and Suspect

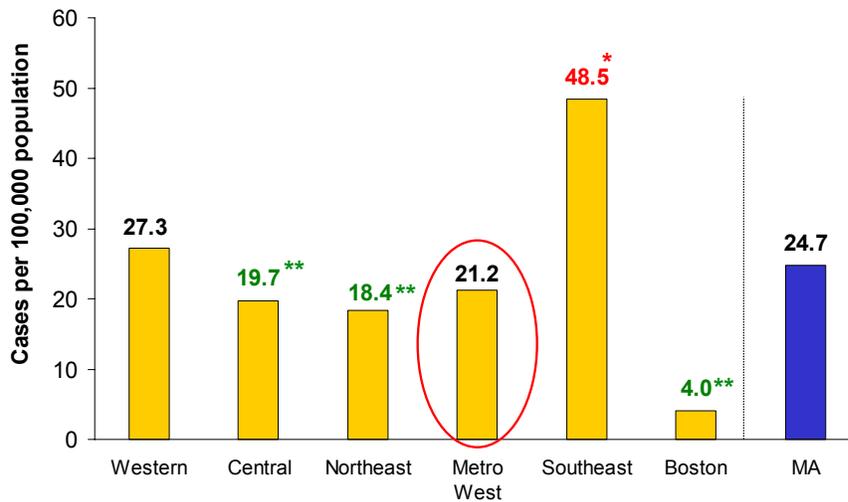


Massachusetts Hepatitis C Infection Average Incidence Rates By Town (2006)

Confirmed, Probable and Suspect

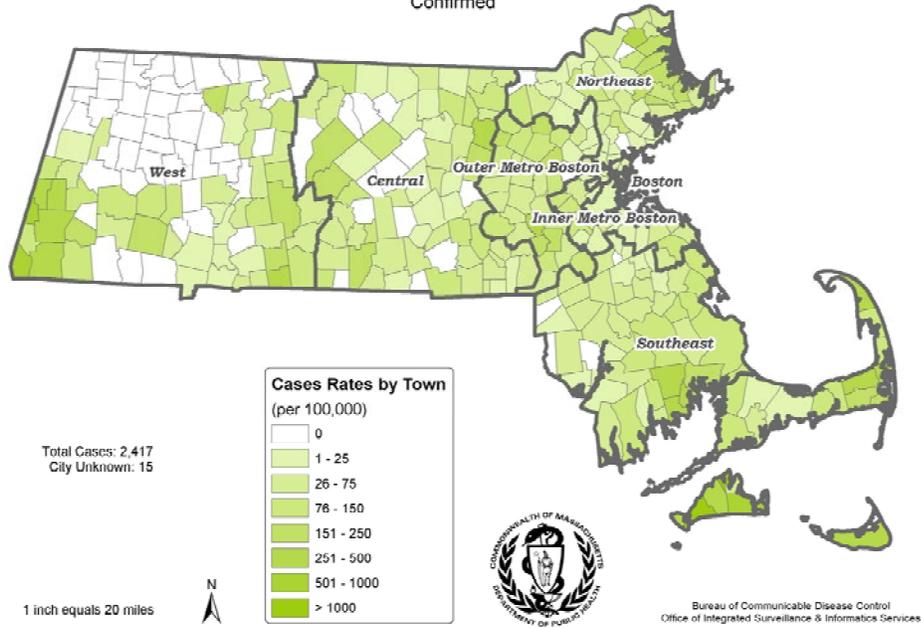


Lyme Disease Incidence by EOHHS Region Massachusetts: 2004

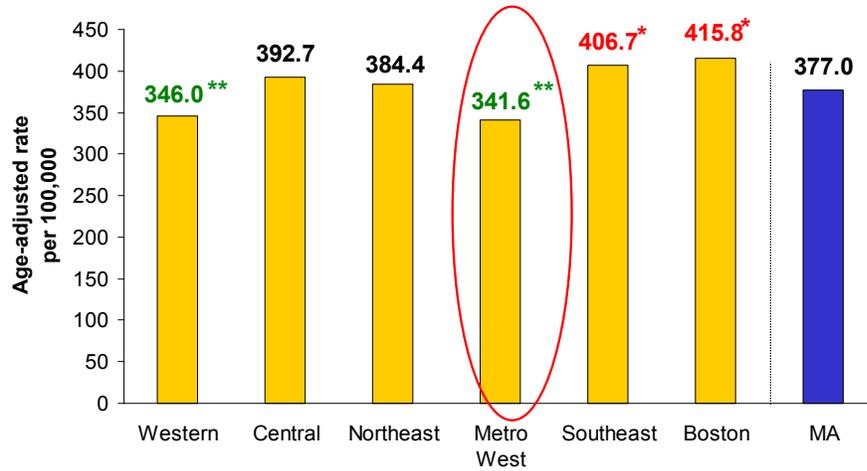


Statistically different from state ($p \leq .05$)— Red (*) Statistically worse than state- Green (**) statistically better than state
Source: MDPH Bureau of Communicable Disease Control, ISIS

Massachusetts Lyme Disease Case Rates By Town (2005) Confirmed



Pneumonia/Influenza Hospital Discharges by EOHHS Region Massachusetts: 2005 ²⁰⁸



Statistically different from state ($p \leq .05$)— Red (*) Statistically worse than state- Green (**) statistically better than state

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

Summary Infectious Disease Indicators by EOHHS Regions

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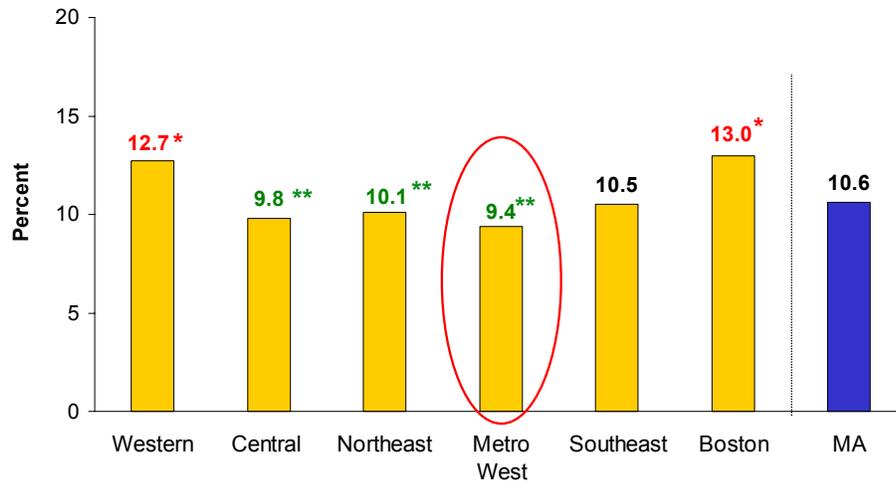
Indicator	MA Total	Western	Central	Northeast	Metro West	South East	Boston
Chlamydia Incidence (crude rates, 2005)	225.7	369.4	145.4	178.0	106.1	169.7	588.5
Gonorrhea Incidence (crude rates, 2005)	39.6	55.9	16.6	22.4	20.3	35.4	126.2
Syphilis Incidence (crude rates, 2005)	6.3	3.1	1.7	4.9	4.7	2.7	22.7
Tuberculosis Incidence (crude rates, 2004)	4.4	1.9	4.2	4.8	4.3	2.0	11.4
Lyme Disease Incidence (crude rates, 2004)	24.7	27.3	19.7	18.4	21.2	48.4	4.0
Pneumonia/ Influenza Hospital Discharges (age-adjusted, 2005)	377.0	346.0	392.7	384.4	341.5	406.7	415.8

■ Better Outcome (significantly different from state)
 ■ Worse Outcome (significantly different from state)

ASTHMA

Pediatric Asthma Prevalence Among School Children, Grades K-8 by EOHHS Region Massachusetts: 2005-2006

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Statistically different from state ($p \leq 0.05$)– Red (*) Statistically worse than state- Green (**) statistically better than state
 Source: MDPH, Center for Environmental Health, Pediatric Asthma Surveillance (2005-2006)

Asthma Prevalence for School Children, Grades K-8 by Community Health Network Areas (CHNA) within Metrowest Region, MA Academic Year 2004-05

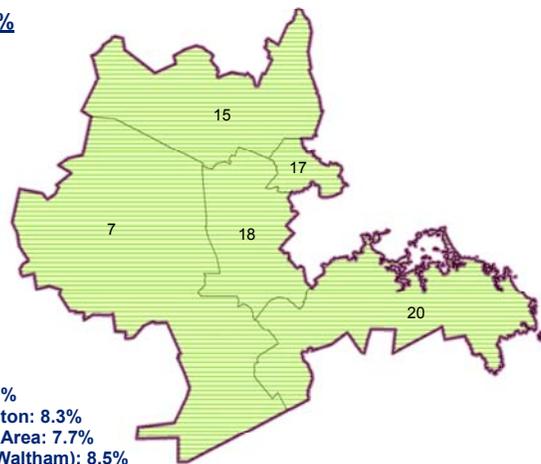
211

Massachusetts Prevalence: 10.6%

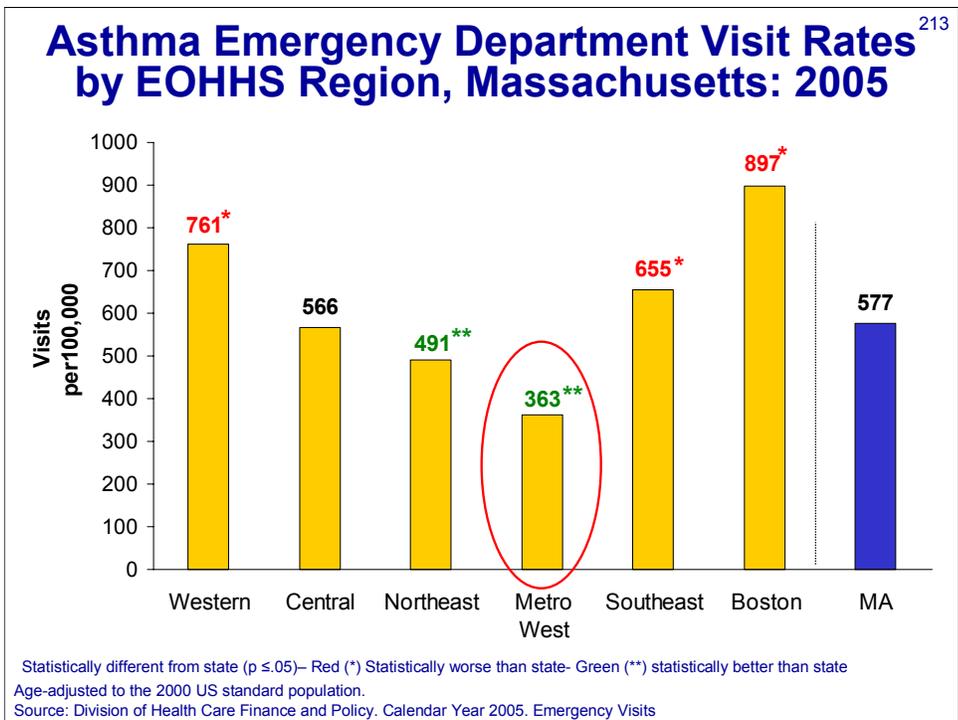
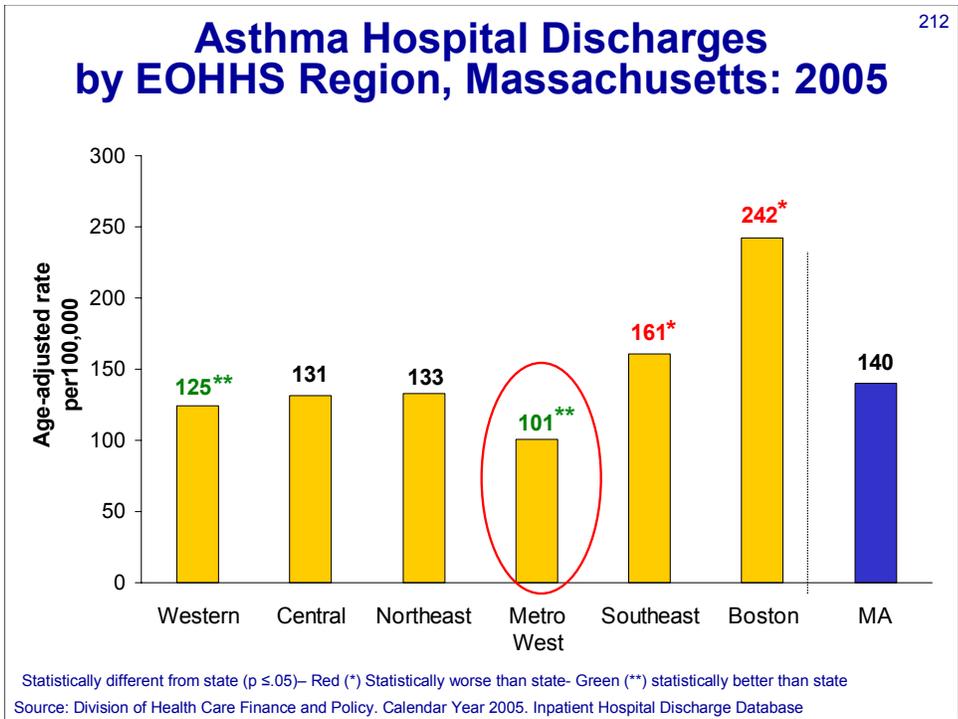


CHNA

- 7. Greater Framingham Area): 9.1%
- 15. Greater Woburn/Concord/Littleton: 8.3%
- 17. Greater Cambridge/Somerville Area: 7.7%
- 18. West Suburban Area (Newton/Waltham): 8.5%
- 20. Blue Hills Area (Quincy): 9.5%

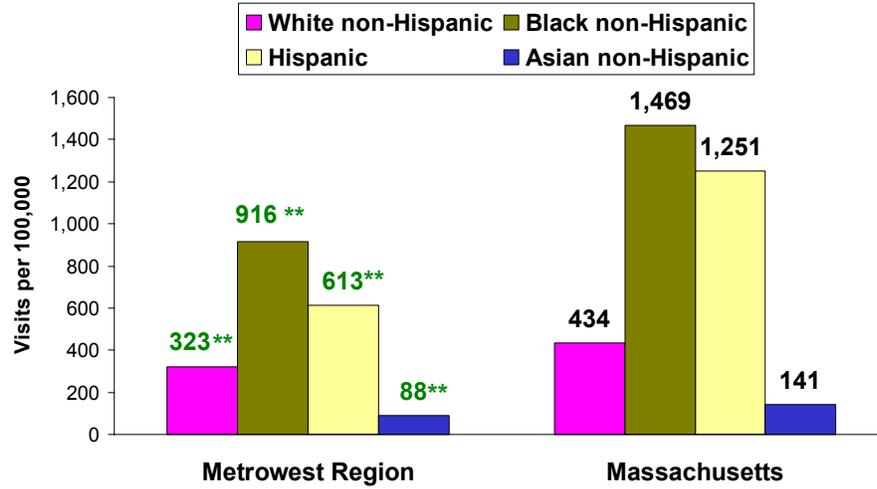


Source: Environment Health Bureaus



Emergency Department Visit Rates for Asthma by Race/Ethnicity Metrowest Region and Massachusetts: 2005

214



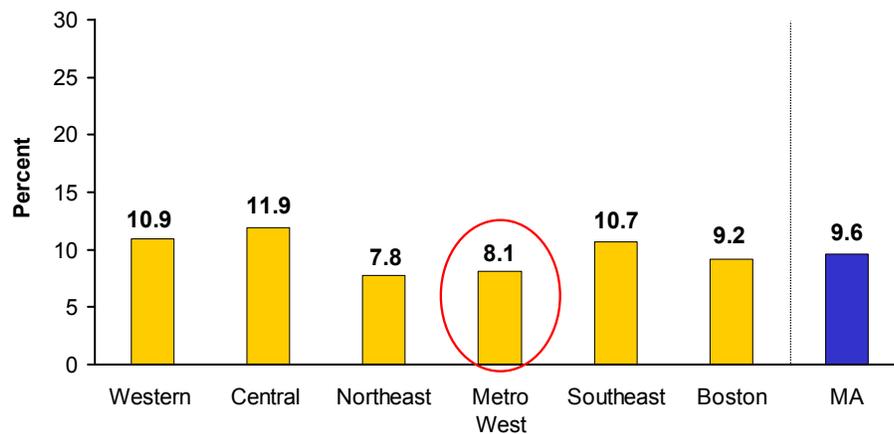
Statistically different from state ($p \leq .05$)– Red (*) Statistically worse than state- Green (**) statistically better than state

Age-adjusted to the 2000 US standard population.

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

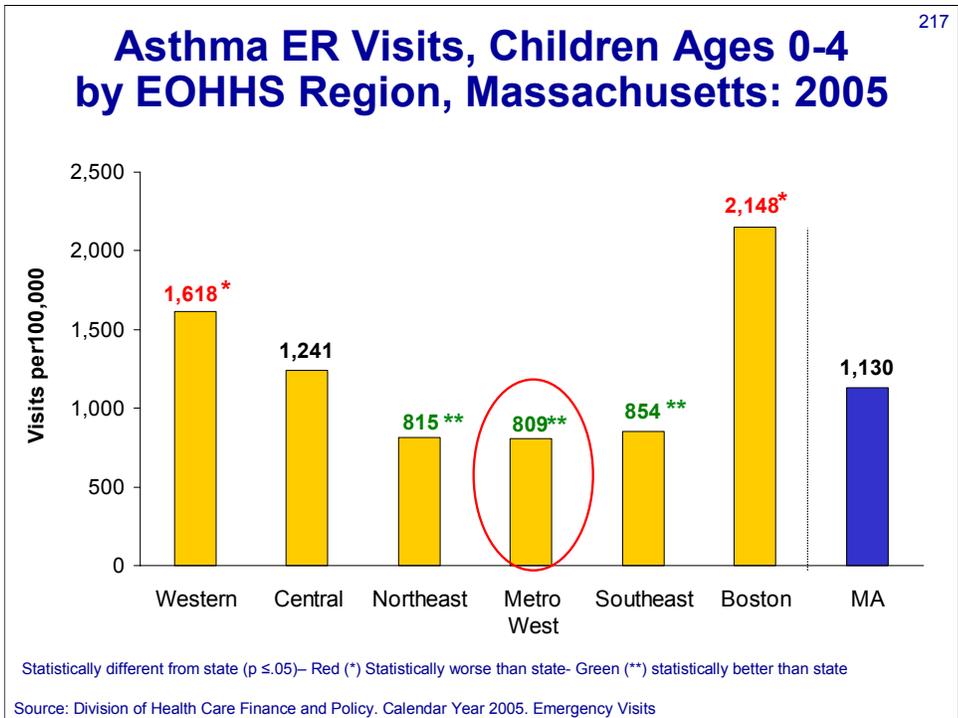
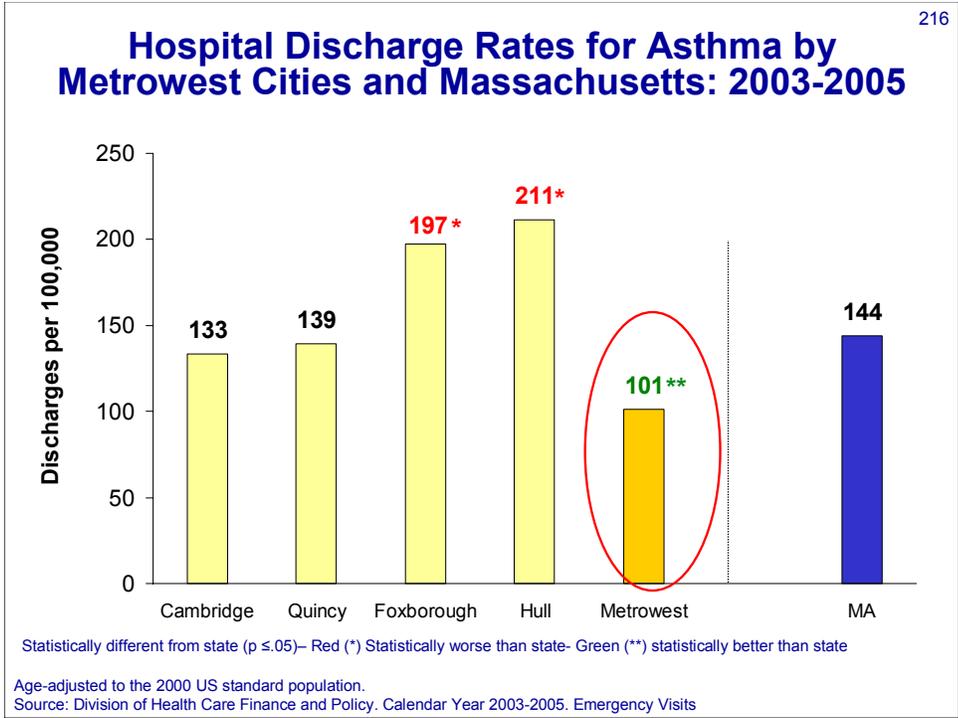
Adults who Currently have Asthma by EOHHS Region, Massachusetts: 2005

215



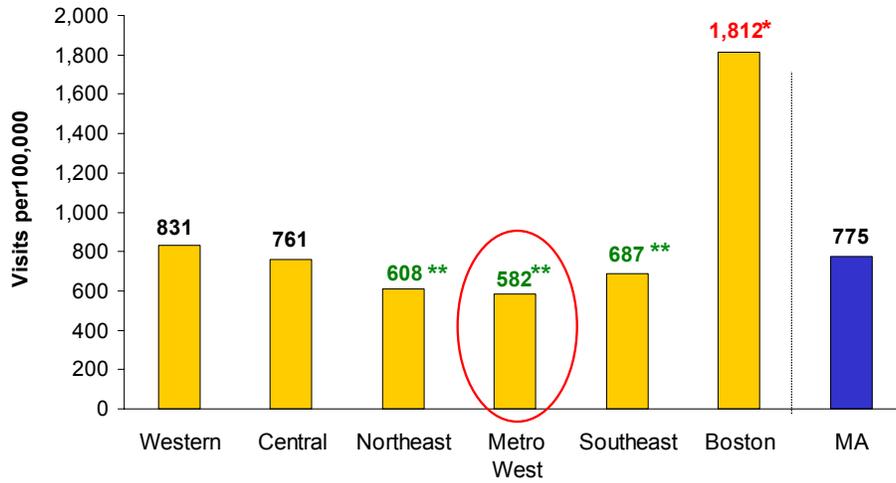
Statistically different from state ($p \leq .05$)– Red (*) Statistically worse than state- Green (**) statistically better than state

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



Asthma ER Visits, Children Ages 5-9 by EOHHS Region, Massachusetts: 2005

218

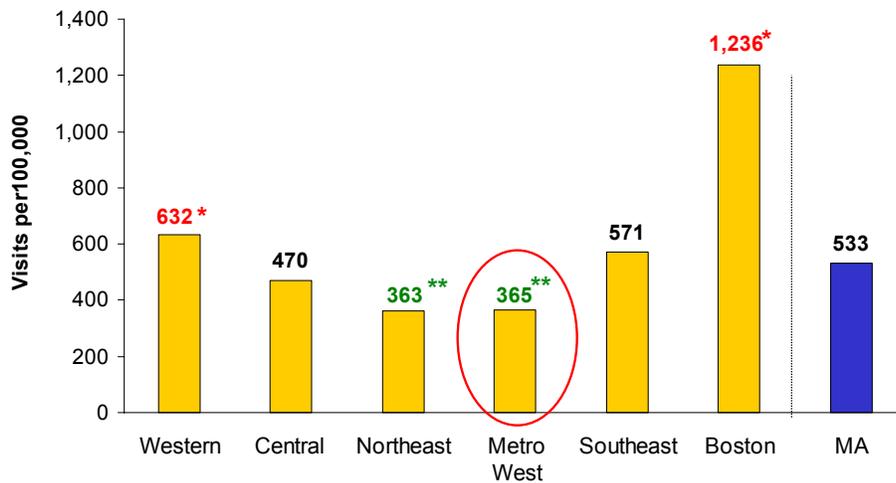


Statistically different from state ($p \leq .05$)— Red (*) Statistically worse than state- Green (**) statistically better than state

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

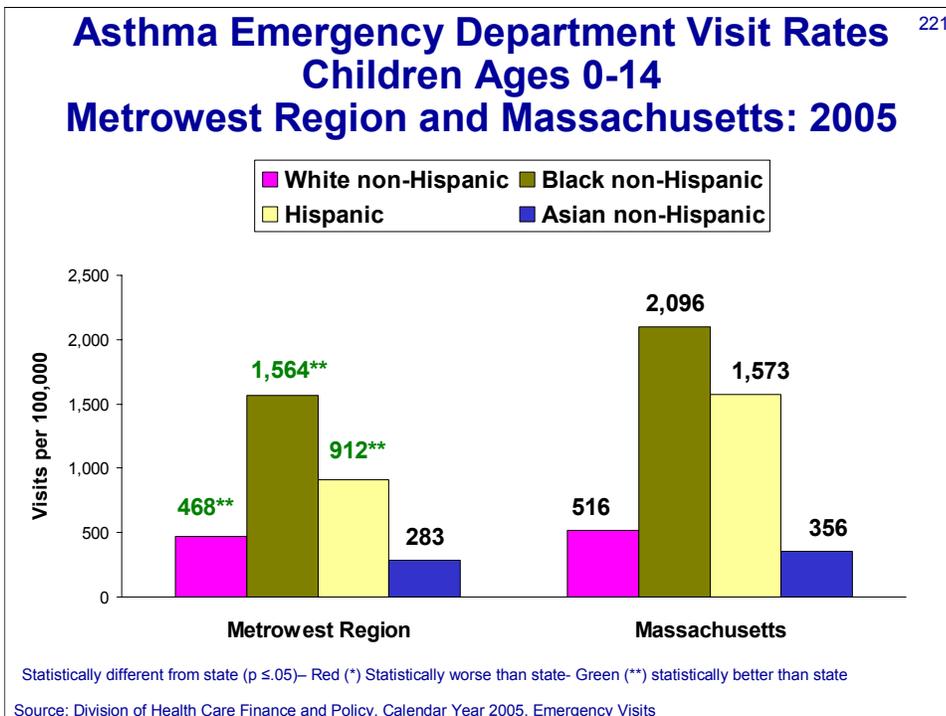
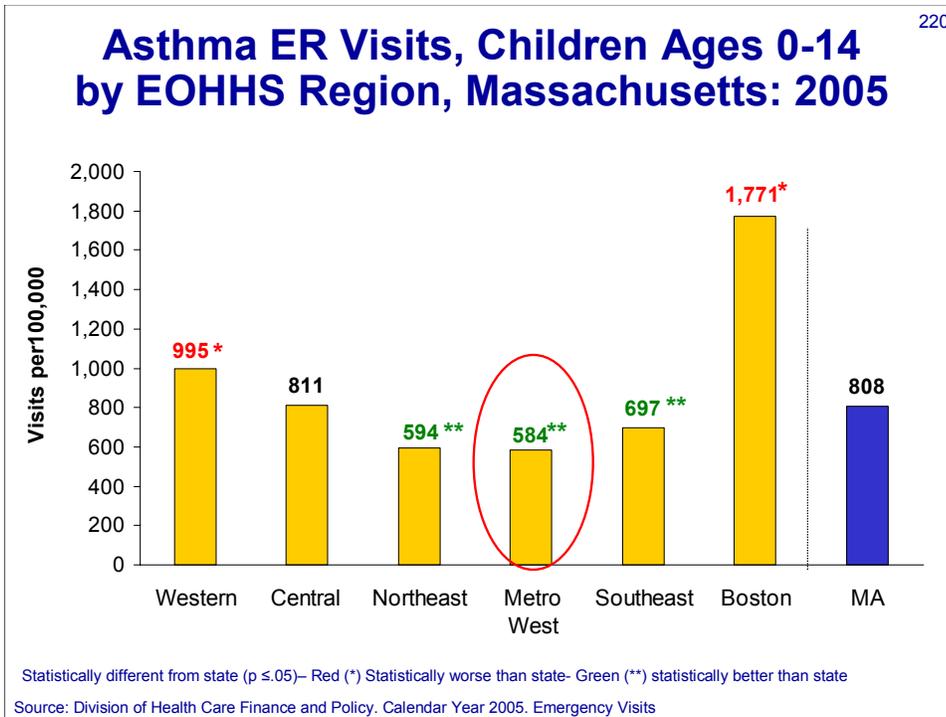
Asthma ER Visits, Children Ages 10-14 by EOHHS Region, Massachusetts: 2005

219



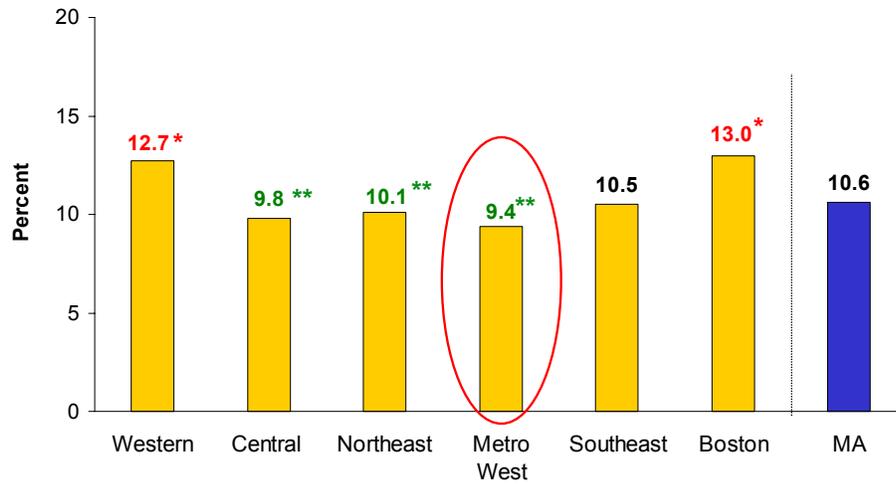
Statistically different from state ($p \leq .05$)— Red (*) Statistically worse than state- Green (**) statistically better than state

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



Pediatric Asthma Prevalence Among School Children, Grades K-8 by EOHHS Region Massachusetts: 2005-2006

222

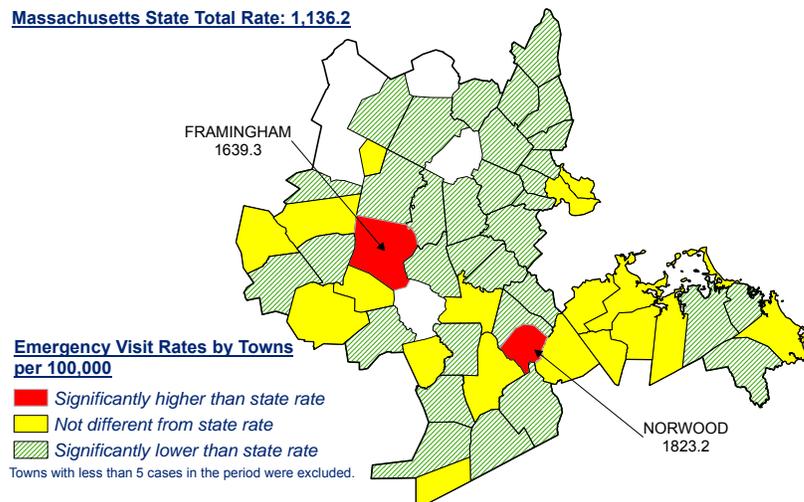


Statistically different from state ($p \leq .05$)– Red (*) Statistically worse than state– Green (**) statistically better than state
Source: MDPH, Center for Environmental Health, Pediatric Asthma Surveillance (2005-2006)

Pediatric Asthma Emergency Visit Rates by Towns Among Children Ages ≤ 5 Metrowest Region - Massachusetts 2004-2005

223

Massachusetts State Total Rate: 1,136.2



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

Summary Asthma Indicators by EOHS Regions, Massachusetts: 2005

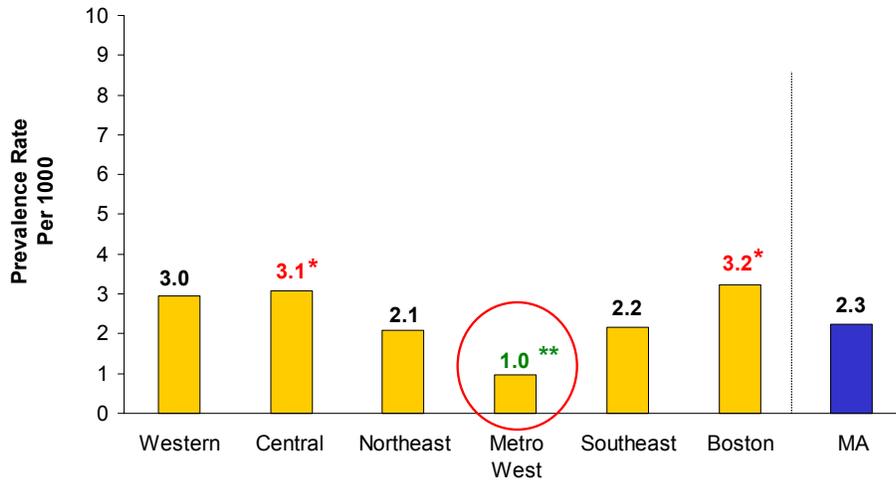
Indicator	MA Total	Western	Central	Northeast	Metro West	South East	Boston
Asthma ER Visits Ages 0-4 (age adjusted per100,000)	1,130	1,618	1,241	815	809	854	2,148
Asthma ER Visits Ages 5-9 (age adjusted per100,000)	775	831	761	608	582	687	1,812
Asthma ER Visits Ages 10-14 (age adjusted per100,000)	533	632	470	363	365	571	1,236
Pediatric Asthma Prevalence (2005-2006)	10.6	12.7	9.8	10.1	9.4	10.5	13.0

■ Better Outcome (significantly different from state)
 ■ Worse Outcome (significantly different from state)

OTHER HEALTH INDICATORS

Total Cases of Elevated Blood Lead Levels ($\geq 15 \mu\text{g/dL}$) by EOHHS Region Massachusetts: 2005

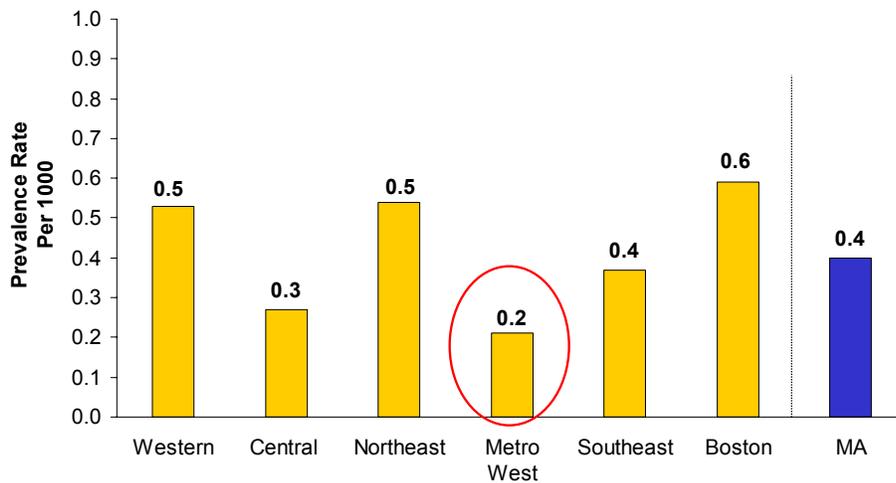
227



Statistically different from state ($p \leq .05$)– Red (*) Statistically worse than state- Green (**) statistically better than state
Source: MDPH, Childhood Lead Poisoning Prevention Program (CLPPP)

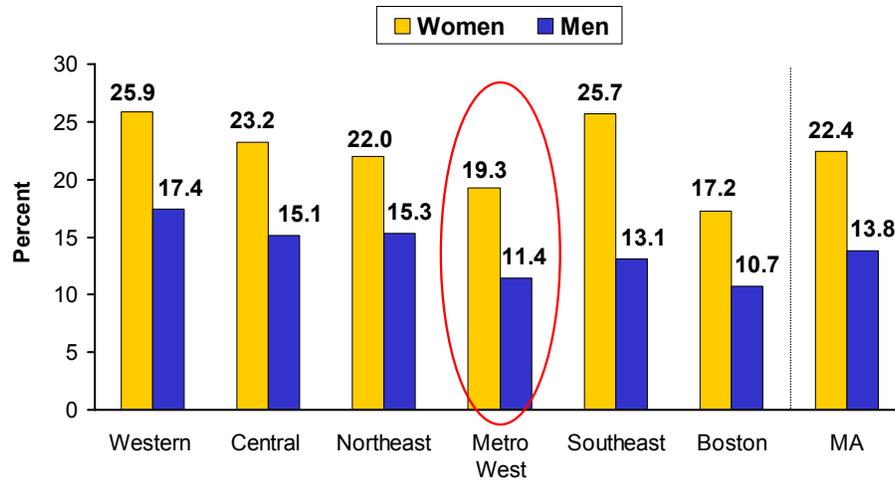
Lead Poisoning Prevalence Rates ($\text{ BLL } \geq 25 \mu\text{g/dL}$) Children 9-48 Months by EOHHS Region, Massachusetts: 2006

228



Statistically different from state ($p \leq .05$)– Red (*) Statistically worse than state- Green (**) statistically better than state
Source: MDPH, Childhood Lead Poisoning Prevention Program (CLPPP)

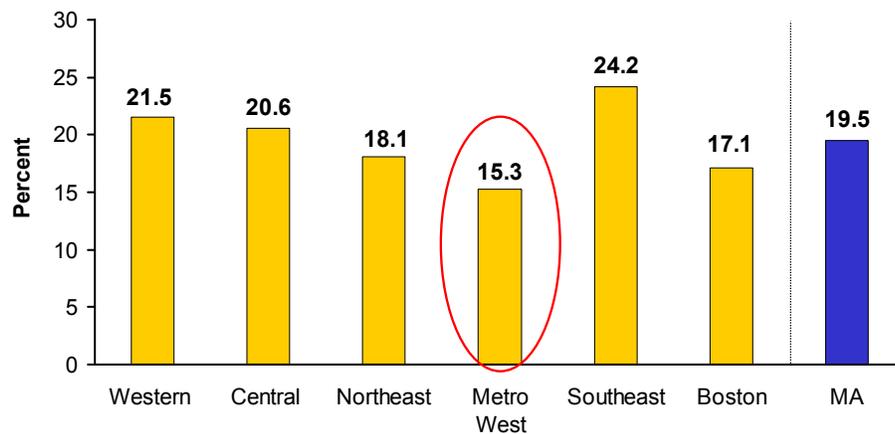
Adults who Report Experiencing Intimate Partner Violence by EOHHS Region and Gender Massachusetts: 2005



Statistically different from state ($p \leq .05$)— Red (*) Statistically worse than state- Green (**) statistically better than state
 Source: MDPH, Health Information, Statistics, Research and Evaluation Bureau, Health Survey Program

Adults who Report Having a Disability by EOHHS Region, Massachusetts: 2005

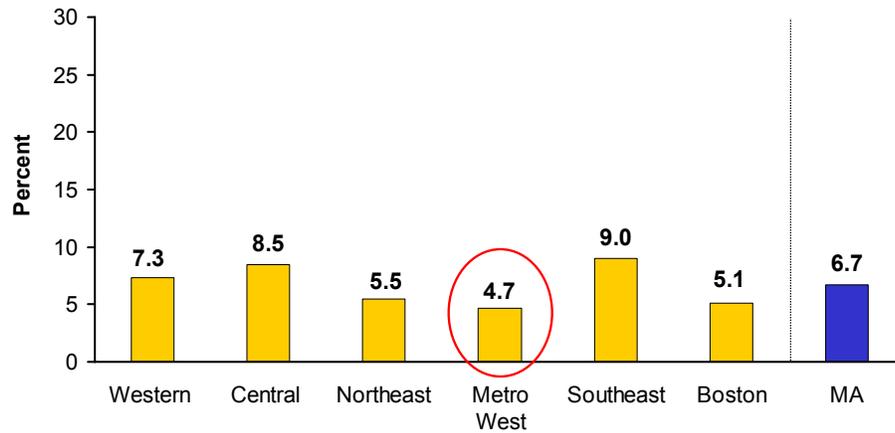
230



Statistically different from state ($p \leq .05$)— Red (*) Statistically worse than state- Green (**) statistically better than state
 Source: MDPH, Health Information, Statistics, Research and Evaluation Bureau, Health Survey Program

Adults who Report Having a Disability and needing help with activities EOHHS Region, Massachusetts: 2005

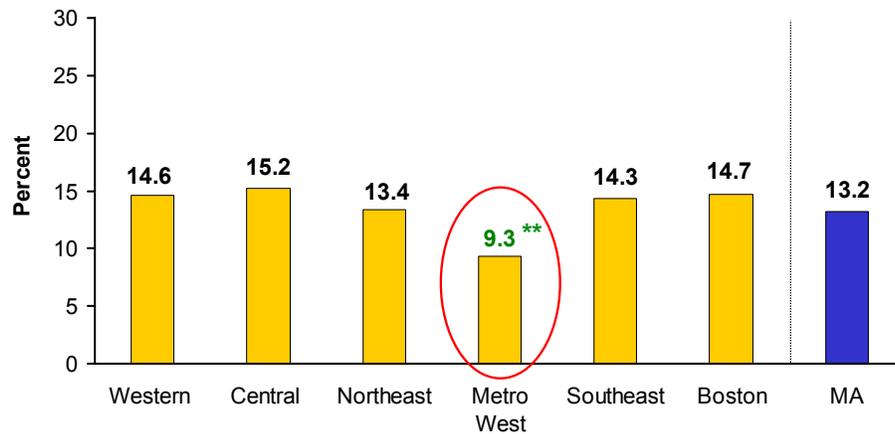
231



Statistically different from state ($p \leq .05$)– Red (*) Statistically worse than state- Green (**) statistically better than state
Source: MDPH, Health Information, Statistics, Research and Evaluation Bureau, Health Survey Program

Adults with Fair or Poor Health by EOHHS Region, Massachusetts: 2005

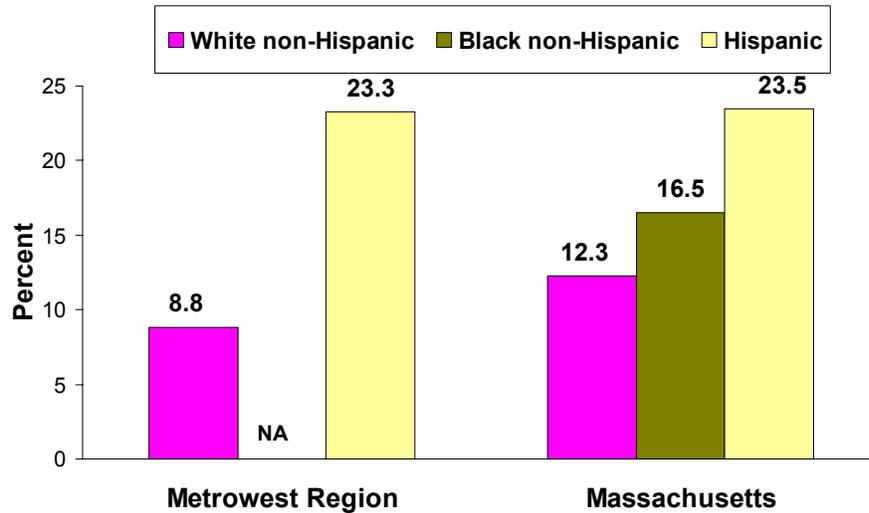
232



Statistically different from state ($p \leq .05$)– Red (*) Statistically worse than state- Green (**) statistically better than state
Source: MDPH, Health Information, Statistics, Research and Evaluation Bureau, Health Survey Program

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

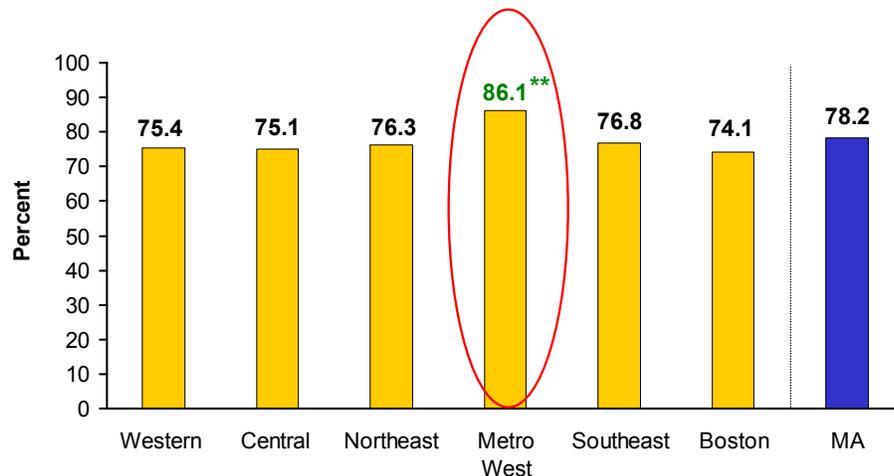
233



Statistically different from state ($p \leq .05$)– Red (*) Statistically worse than state- Green (**) statistically better than state
Source: MDPH, Health Information, Statistics, Research and Evaluation Bureau, Health Survey Program

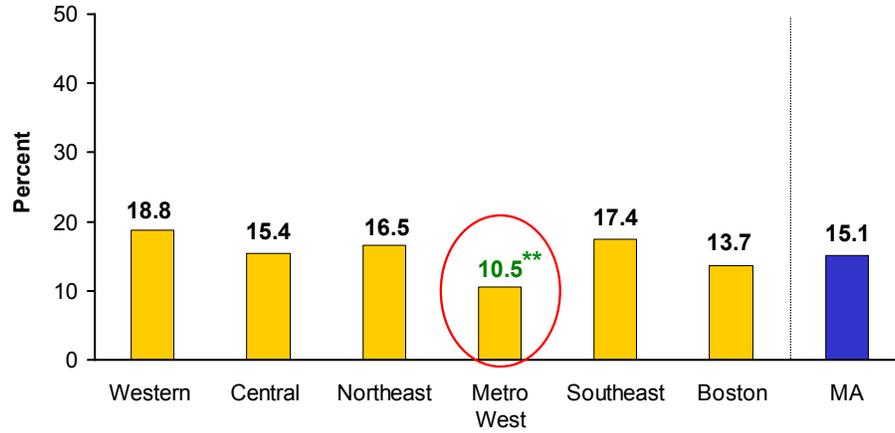
Adults who Visit a Dentist in Past Year by EOHS Region, Massachusetts: 2004

234



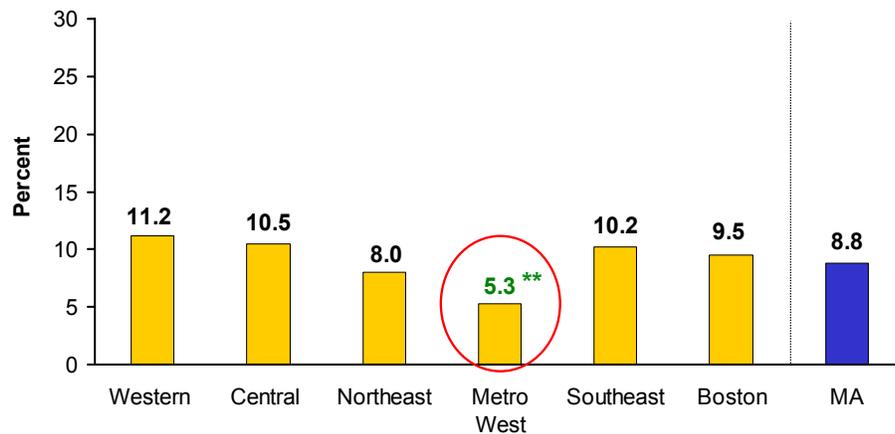
Statistically different from state ($p \leq .05$)– Red (*) Statistically worse than state- Green (**) statistically better than state
Source: MDPH, Health Information, Statistics, Research and Evaluation Bureau, Health Survey Program

Adults who have lost 6 or more teeth to decay or disease by EOHHS Region, Massachusetts: 2004 ²³⁵



Statistically different from state ($p \leq .05$)– Red (*) Statistically worse than state- Green (**) statistically better than state
 Source: MDPH, Health Information, Statistics, Research and Evaluation Bureau, Health Survey Program

Adults with Poor Mental Health for 15 or more days in Past Month by EOHHS Region Massachusetts: 2005 ²³⁶



Statistically different from state ($p \leq .05$)– Red (*) Statistically worse than state- Green (**) statistically better than state
 Source: MDPH, Health Information, Statistics, Research and Evaluation Bureau, Health Survey Program

Summary Other Health Indicators by EOHHS Regions

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Indicator	MA Total	Western	Central	Northeast	Metro West	South East	Boston
% Fair or Poor Health (2005)	13.2	14.6	15.2	13.4	9.3	14.3	14.7
Cases of Elevated Blood Lead levels (Percent of All Children Screened Per 1000, 2005)	2.3	2.9	3.1	2.1	1.0	2.2	3.2
% Visited Dentist Past Year (2004)	78.2	75.4	75.1	76.3	86.1	76.8	74.1
% 6+ Teeth Missing (2004)	15.1	18.8	15.4	16.5	10.5	17.4	13.7
% Poor Mental Health for 15 or more days in Past Month (2005)	8.8	11.2	10.5	8.0	5.3	10.2	9.5

■ Better Outcome (significantly different from state) ■ Worse Outcome (significantly different from state)

Summary Other Health Indicators by EOHHS Regions

238

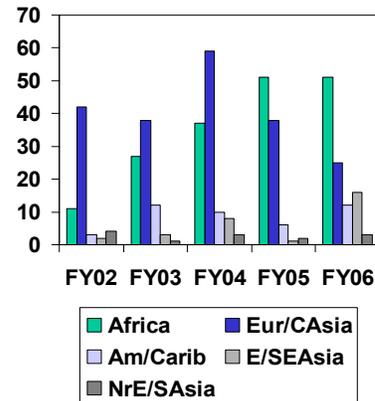
Indicator	MA Total	Western	Central	Northeast	Metro West	South East	Boston
% Adults reporting having a disability (2005)	19.5	21.5	20.6	18.1	15.3	24.2	17.1
% Adults reporting having a disability and needing help with activities (2005)	6.7	7.3	8.5	5.5	4.7	9.0	5.1

■ Better Outcome (significantly different from state) ■ Worse Outcome (significantly different from state)

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

Refugee Arrivals: Metrowest Region FY02-FY06

- 465 refugees resettled over 5 years
- Increasing diversity in population
- 34% age ≤ 19 at arrival
- Cities/Towns with largest number of arrivals: Newton, Quincy, Somerville, Waltham, Watertown



Refugee Health Assessment Findings Metrowest Region: FY02-FY06

- High rates of latent TB infection (LTBI)
 - 395 refugees tested: 44% positive
 - Intensive follow-up in partnership with TB clinics, local health and DPH to assure testing, evaluation and treatment
 - Rapid assessment identifies active disease early to prevent spread
- Risk of lead poisoning among refugee children
 - 2 refugee children identified with elevated blood lead levels at arrival – 6% of children <7 years
 - Poor nutritional status puts children at risk of increased absorption of lead post-resettlement
- Need for bilingual, bicultural services to promote access to care

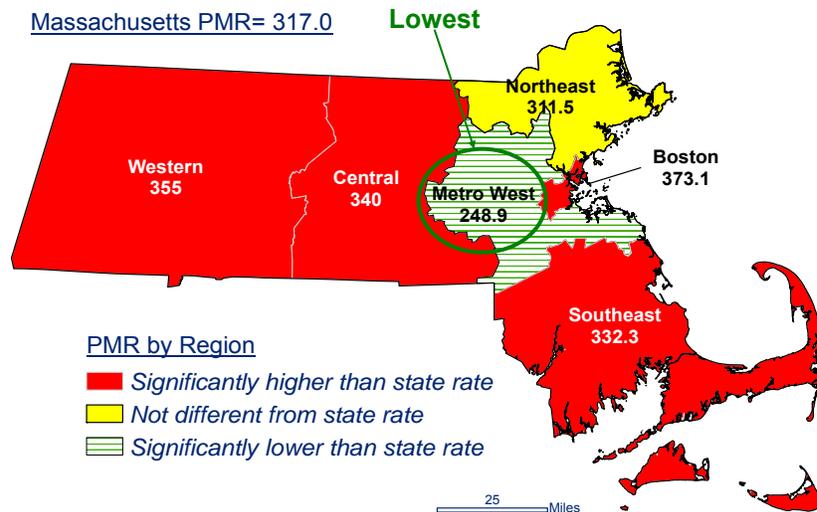
Premature Mortality Rate (PMR)¹

- **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: Massachusetts Department of Public Health, Center for Health Information, Statistics, Research, and Evaluation

Premature Mortality Rates (PMR) by Region Massachusetts: 2005

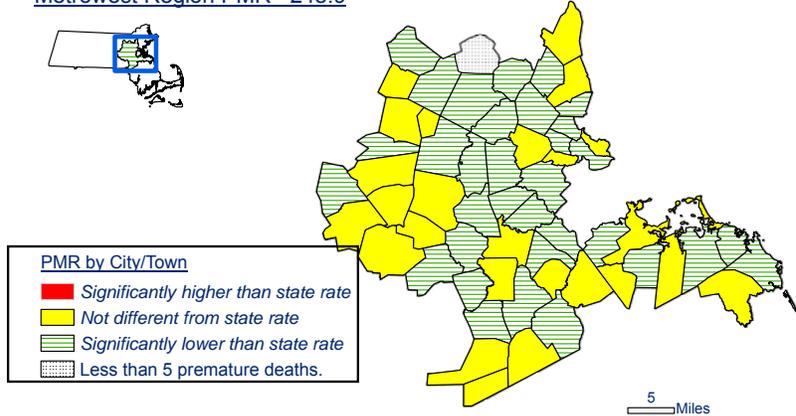


Rates are per 100,000 persons under 75 years of age, age-adjusted to the 2000 US standard population under 75 years of age.

Source: Massachusetts Department of Public Health, Center for Health Information, Statistics, Research, and Evaluation

PMR- Metrowest Region by City/Town Massachusetts: 2005

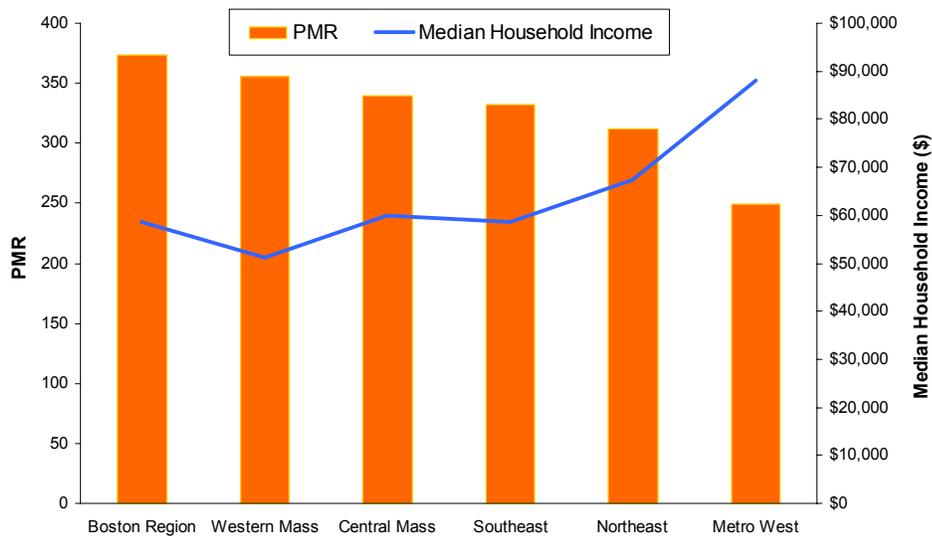
Massachusetts PMR= 317.0
Metrowest Region PMR= 248.9



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

Source: Massachusetts Department of Public Health, Center for Health Information, Statistics, Research, and Evaluation

Median Household Income and PMR by EOHHS Regions, Massachusetts: 2005



Source: MDPH, Health Information, Statistics, Research and Evaluation Bureau, Research & Epidemiology Program
State Median Household Income: \$66,365

Premature Mortality Rate (PMR) by EOHHS Regions: 2005

	PMR
Massachusetts	317.0
Western Region	355.0
Central Region	340.0
Northeast Region	311.5
Metrowest Region	248.9
Southeast Region	332.3
Boston Region	373.1

■ Better Outcome (significantly different from state)
 ■ Worse Outcome (significantly different from state)

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

SUMMARY

Summary

- The Metrowest region is a healthy place to live
- Residents of certain communities are affected disproportionately by health issues, including the following:
 - Framingham**: Access to private sources for prenatal care, admissions for substance abuse, emergency visits by children ages <5 with asthma
 - Randolph**: Hospitalizations for hypertension and diabetes, deaths to heart disease, emergency visits for motor vehicle injuries
 - Norwood**: Hospitalizations for hypertension and diabetes, emergency visits for motor vehicle injuries and by children ages <5 with asthma
 - Quincy**: Hospitalizations for diabetes, admissions for cocaine, emergency visits for opioid-related injuries
 - Somerville**: Access to private sources for prenatal care, opioid-related emergency visits, persons living with HIV
 - Weymouth**: Hospitalizations for diabetes, emergency visits for opioid-related injuries
 - Sharon**: Hospitalizations for hypertension
 - Cambridge**: Persons living with HIV

Health Disparities

The following groups of the Metrowest region, when compared with those at the state level, have higher rates of:

Blacks & Latinos: emergency visits for opioid-related injuries

Whites: incidence for female breast cancer; hospitalizations for persons ages 65+ due to fall injuries

Refugees: high TB rates; increased lead poisoning among children

APPENDIX

REGIONS AND TOWNS

REGION	TOWN	COUNTY	CHNA
BOSTON	BOSTON	SUFFOLK	Alliance for Community Health
	BROOKLINE	NORFOLK	Alliance for Community Health
	CHELSEA	SUFFOLK	Alliance for Community Health
	REVERE	SUFFOLK	Alliance for Community Health
	WINTHROP	SUFFOLK	Alliance for Community Health
CENTRAL	ASHBURNHAM	WORCESTER	Fitchburg/Gardner CHN
	ASHBY	MIDDLESEX	Fitchburg/Gardner CHN
	AUBURN	WORCESTER	Community Wellness Coalition
	AYER	MIDDLESEX	Fitchburg/Gardner CHN
	BARRE	WORCESTER	Fitchburg/Gardner CHN
	BELLINGHAM	NORFOLK	Community Partners for Health
	BERLIN	WORCESTER	Fitchburg/Gardner CHN
	BLACKSTONE	WORCESTER	Community Partners for Health
	BOLTON	WORCESTER	Fitchburg/Gardner CHN
	BOYLSTON	WORCESTER	Community Wellness Coalition
	BRIMFIELD	HAMPDEN	CHN of Southern Worcester County
	BROOKFIELD	WORCESTER	CHN of Southern Worcester County
	CHARLTON	WORCESTER	CHN of Southern Worcester County
	CLINTON	WORCESTER	Fitchburg/Gardner CHN
	DOUGLAS	WORCESTER	Community Partners for Health
	DUDLEY	WORCESTER	CHN of Southern Worcester County
	EAST BROOKFIELD	WORCESTER	CHN of Southern Worcester County
	FITCHBURG	WORCESTER	Fitchburg/Gardner CHN
	FRANKLIN	NORFOLK	Community Partners for Health
	GARDNER	WORCESTER	Fitchburg/Gardner CHN
	GRAFTON	WORCESTER	Community Wellness Coalition
	GROTON	MIDDLESEX	Fitchburg/Gardner CHN
	HARDWICK	WORCESTER	Fitchburg/Gardner CHN
	HARVARD	WORCESTER	Fitchburg/Gardner CHN
	HOLDEN	WORCESTER	Community Wellness Coalition
	HOLLAND	HAMPDEN	CHN of Southern Worcester County
	HOPEDALE	WORCESTER	Community Partners for Health
	HUBBARDSTON	WORCESTER	Fitchburg/Gardner CHN
	LANCASTER	WORCESTER	Fitchburg/Gardner CHN
	LEICESTER	WORCESTER	Community Wellness Coalition
	LEOMINSTER	WORCESTER	Fitchburg/Gardner CHN
	LUNENBURG	WORCESTER	Fitchburg/Gardner CHN
	MEDWAY	NORFOLK	Community Partners for Health
	MENDON	WORCESTER	Community Partners for Health
	MILFORD	WORCESTER	Community Partners for Health
MILLBURY	WORCESTER	Community Wellness Coalition	
MILLVILLE	WORCESTER	Community Partners for Health	
NEW BRAINTREE	WORCESTER	Fitchburg/Gardner CHN	
NORTH BROOKFIELD	WORCESTER	CHN of Southern Worcester County	
NORTHBRIDGE	WORCESTER	Community Partners for Health	
OAKHAM	WORCESTER	Fitchburg/Gardner CHN	
OXFORD	WORCESTER	CHN of Southern Worcester County	

	PAXTON PEPPERELL PRINCETON RUTLAND SHIRLEY SHREWSBURY SOUTHBRIDGE SPENCER STERLING STURBRIDGE SUTTON TEMPLETON TOWNSEND UPTON UXBRIDGE WALES WARREN WEBSTER WEST BOYLSTON WEST BROOKFIELD WESTMINSTER WINCHENDON WORCESTER	WORCESTER MIDDLESEX WORCESTER WORCESTER MIDDLESEX WORCESTER WORCESTER WORCESTER WORCESTER WORCESTER WORCESTER WORCESTER MIDDLESEX WORCESTER WORCESTER HAMPDEN WORCESTER WORCESTER WORCESTER WORCESTER WORCESTER WORCESTER WORCESTER WORCESTER	Community Wellness Coalition Fitchburg/Gardner CHN Fitchburg/Gardner CHN Fitchburg/Gardner CHN Fitchburg/Gardner CHN Community Wellness Coalition CHN of Southern Worcester County CHN of Southern Worcester County Fitchburg/Gardner CHN CHN of Southern Worcester County Community Partners for Health Fitchburg/Gardner CHN Fitchburg/Gardner CHN Community Partners for Health Community Partners for Health CHN of Southern Worcester County CHN of Southern Worcester County CHN of Southern Worcester County Community Wellness Coalition CHN of Southern Worcester County Fitchburg/Gardner CHN Fitchburg/Gardner CHN Community Wellness Coalition
METRO WEST	ACTON ARLINGTON ASHLAND BEDFORD BELMONT BOXBOROUGH BRAINTREE BURLINGTON CAMBRIDGE CANTON CARLISLE COHASSET CONCORD DEDHAM DOVER FOXBOROUGH FRAMINGHAM HINGHAM HOLLISTON HOPKINTON HUDSON HULL LEXINGTON LINCOLN LITTLETON MARLBOROUGH MAYNARD	MIDDLESEX MIDDLESEX MIDDLESEX MIDDLESEX MIDDLESEX MIDDLESEX NORFOLK MIDDLESEX MIDDLESEX NORFOLK MIDDLESEX NORFOLK MIDDLESEX NORFOLK NORFOLK NORFOLK NORFOLK NORFOLK MIDDLESEX PLYMOUTH MIDDLESEX MIDDLESEX MIDDLESEX PLYMOUTH MIDDLESEX MIDDLESEX MIDDLESEX MIDDLESEX MIDDLESEX	Greater Woburn/Concord/Littleton CHN Greater Cambridge/Somerville CHN CHN of Greater Metro West Greater Woburn/Concord/Littleton CHN Greater Cambridge/Somerville CHN Greater Woburn/Concord/Littleton CHN Blue Hills Community Health Alliance Greater Woburn/Concord/Littleton CHN Greater Cambridge/Somerville CHN Blue Hills Community Health Alliance Greater Woburn/Concord/Littleton CHN Blue Hills Community Health Alliance Greater Woburn/Concord/Littleton CHN West Suburban Health Network West Suburban Health Network CHN of Greater Metro West CHN of Greater Metro West Blue Hills Community Health Alliance CHN of Greater Metro West CHN of Greater Metro West CHN of Greater Metro West Blue Hills Community Health Alliance Greater Woburn/Concord/Littleton CHN Greater Woburn/Concord/Littleton CHN Greater Woburn/Concord/Littleton CHN CHN of Greater Metro West CHN of Greater Metro West

	LAWRENCE LOWELL LYNN LYNNFIELD MALDEN MANCHESTER MARBLEHEAD MEDFORD MELROSE MERRIMAC METHUEN MIDDLETON NAHANT NEWBURY NEWBURYPORT NORTH ANDOVER NORTH READING PEABODY READING ROCKPORT ROWLEY SALEM SALISBURY SAUGUS STONEHAM SWAMPSCOTT TEWKSBURY TOPSFIELD TYNGSBOROUGH WAKEFIELD WENHAM WEST NEWBURY WESTFORD	ESSEX MIDDLESEX ESSEX ESSEX MIDDLESEX ESSEX ESSEX MIDDLESEX MIDDLESEX ESSEX ESSEX ESSEX ESSEX ESSEX ESSEX ESSEX MIDDLESEX ESSEX MIDDLESEX ESSEX ESSEX ESSEX MIDDLESEX ESSEX MIDDLESEX MIDDLESEX MIDDLESEX ESSEX ESSEX ESSEX MIDDLESEX	Greater Lawrence CHN Greater Lowell CHN North Shore CHN North Shore CHN North Suburban Health Alliance Community Health Network North North Shore CHN North Suburban Health Alliance North Suburban Health Alliance Greater Haverhill CHN Greater Lawrence CHN Greater Lawrence CHN North Shore CHN Greater Haverhill CHN Greater Haverhill CHN Greater Lawrence CHN North Suburban Health Alliance North Shore CHN North Suburban Health Alliance Community Health Network North Greater Haverhill CHN North Shore CHN Greater Haverhill CHN North Shore CHN North Suburban Health Alliance North Shore CHN Greater Lowell CHN Community Health Network North Greater Lowell CHN North Suburban Health Alliance Community Health Network North Greater Haverhill CHN Greater Lowell CHN
SOUTHEAST	ABINGTON ACUSHNET ATTLEBORO AVON BARNSTABLE BERKLEY BOURNE BREWSTER BRIDGEWATER BROCKTON CARVER CHATHAM CHILMARK DARTMOUTH DENNIS DIGHTON DUXBURY	PLYMOUTH BRISTOL BRISTOL NORFOLK BARNSTABLE BRISTOL BARNSTABLE BARNSTABLE PLYMOUTH PLYMOUTH PLYMOUTH BARNSTABLE DUKES BRISTOL BARNSTABLE BRISTOL PLYMOUTH	Greater Brockton CHN Greater New Bedford CHN Health & Education Response Greater Brockton CHN Cape and Islands CHN Health & Education Response Cape and Islands CHN Cape and Islands CHN Greater Brockton CHN Greater Brockton CHN South Shore Community Partners in Prevention Cape and Islands CHN Cape and Islands CHN Greater New Bedford CHN Cape and Islands CHN Health & Education Response South Shore Community Partners in Prevention

EAST BRIDGEWATER	PLYMOUTH	Greater Brockton CHN
EASTHAM	BARNSTABLE	Cape and Islands CHN
EASTON	BRISTOL	Greater Brockton CHN
EDGARTOWN	DUKES	Cape and Islands CHN
FAIRHAVEN	BRISTOL	Greater New Bedford CHN
FALL RIVER	BRISTOL	Partners for a Healthier Community
FALMOUTH	BARNSTABLE	Cape and Islands CHN
FREETOWN	BRISTOL	Greater New Bedford CHN
GAY HEAD	DUKES	Cape and Islands CHN
GOSNOLD	DUKES	Cape and Islands CHN
HALIFAX	PLYMOUTH	South Shore Community Partners in Prevention
HANOVER	PLYMOUTH	South Shore Community Partners in Prevention
HANSON	PLYMOUTH	South Shore Community Partners in Prevention
HARWICH	BARNSTABLE	Cape and Islands CHN
HOLBROOK	NORFOLK	Greater Brockton CHN
KINGSTON	PLYMOUTH	South Shore Community Partners in Prevention
LAKEVILLE	PLYMOUTH	Health & Education Response
MANSFIELD	BRISTOL	Health & Education Response
MARION	PLYMOUTH	Greater New Bedford CHN
MARSHFIELD	PLYMOUTH	South Shore Community Partners in Prevention
MASHPEE	BARNSTABLE	Cape and Islands CHN
MATTAPOISETT	PLYMOUTH	Greater New Bedford CHN
MIDDLEBOROUGH	PLYMOUTH	Health & Education Response
NANTUCKET	NANTUCKET	Cape and Islands CHN
NEW BEDFORD	BRISTOL	Greater New Bedford CHN
NORTH ATTLEBORO	BRISTOL	Health & Education Response
NORTON	BRISTOL	Health & Education Response
OAK BLUFFS	DUKES	Cape and Islands CHN
ORLEANS	BARNSTABLE	Cape and Islands CHN
PEMBROKE	PLYMOUTH	South Shore Community Partners in Prevention
PLYMOUTH	PLYMOUTH	South Shore Community Partners in Prevention
PLYMPTON	PLYMOUTH	South Shore Community Partners in Prevention
PROVINCETOWN	BARNSTABLE	Cape and Islands CHN
RAYNHAM	BRISTOL	Health & Education Response
REHOBOTH	BRISTOL	Health & Education Response
ROCHESTER	PLYMOUTH	Greater New Bedford CHN
ROCKLAND	PLYMOUTH	South Shore Community Partners in Prevention
SANDWICH	BARNSTABLE	Cape and Islands CHN
SEEKONK	BRISTOL	Health & Education Response
SOMERSET	BRISTOL	Partners for a Healthier Community
STOUGHTON	NORFOLK	Greater Brockton CHN
SWANSEA	BRISTOL	Partners for a Healthier Community
TAUNTON	BRISTOL	Health & Education Response
TISBURY	DUKES	Cape and Islands CHN
TRURO	BARNSTABLE	Cape and Islands CHN
WAREHAM	PLYMOUTH	Greater New Bedford CHN
WELLFLEET	BARNSTABLE	Cape and Islands CHN
WEST BRIDGEWATER	PLYMOUTH	Greater Brockton CHN
WEST TISBURY	DUKES	Cape and Islands CHN
WESTPORT	BRISTOL	Partners for a Healthier Community

	WHITMAN YARMOUTH	PLYMOUTH BARNSTABLE	Greater Brockton CHN Cape and Islands CHN
WESTERN	ADAMS	BERKSHIRE	CHN of Berkshire
	AGAWAM	HAMPDEN	The Community Health Connection
	ALFORD	BERKSHIRE	CHN of Berkshire
	AMHERST	HAMPSHIRE	Partnership for Health in Hampshire County
	ASHFIELD	FRANKLIN	Upper Valley Health Web
	ATHOL	WORCESTER	Upper Valley Health Web
	BECKET	BERKSHIRE	CHN of Berkshire
	BELCHERTOWN	HAMPSHIRE	Partnership for Health in Hampshire County
	BERNARDSTON	FRANKLIN	Upper Valley Health Web
	BLANDFORD	HAMPDEN	The Community Health Connection
	BUCKLAND	FRANKLIN	Upper Valley Health Web
	CHARLEMONT	FRANKLIN	Upper Valley Health Web
	CHESHIRE	BERKSHIRE	CHN of Berkshire
	CHESTER	HAMPDEN	Four (For) Communities
	CHESTERFIELD	HAMPSHIRE	Partnership for Health in Hampshire County
	CHICOPEE	HAMPDEN	Four (For) Communities
	CLARKSBURG	BERKSHIRE	CHN of Berkshire
	COLRAIN	FRANKLIN	Upper Valley Health Web
	CONWAY	FRANKLIN	Upper Valley Health Web
	CUMMINGTON	HAMPSHIRE	Partnership for Health in Hampshire County
	DALTON	BERKSHIRE	CHN of Berkshire
	DEERFIELD	FRANKLIN	Upper Valley Health Web
	EAST LONGMEADOW	HAMPDEN	The Community Health Connection
	EASTHAMPTON	HAMPSHIRE	Partnership for Health in Hampshire County
	EGREMONT	BERKSHIRE	CHN of Berkshire
	ERVING	FRANKLIN	Upper Valley Health Web
	FLORIDA	BERKSHIRE	CHN of Berkshire
	GILL	FRANKLIN	Upper Valley Health Web
	GOSHEN	HAMPSHIRE	Partnership for Health in Hampshire County
	GRANBY	HAMPSHIRE	Partnership for Health in Hampshire County
	GRANVILLE	HAMPDEN	The Community Health Connection
	GREAT BARRINGTON	BERKSHIRE	CHN of Berkshire
	GREENFIELD	FRANKLIN	Upper Valley Health Web
	HADLEY	HAMPSHIRE	Partnership for Health in Hampshire County
	HAMPDEN	HAMPDEN	The Community Health Connection
	HANCOCK	BERKSHIRE	CHN of Berkshire
	HATFIELD	HAMPSHIRE	Partnership for Health in Hampshire County
	HAWLEY	FRANKLIN	Upper Valley Health Web
	HEATH	FRANKLIN	Upper Valley Health Web
	HINSDALE	BERKSHIRE	CHN of Berkshire
	HOLYOKE	HAMPDEN	Four (For) Communities
	HUNTINGTON	HAMPSHIRE	Four (For) Communities
	LANESBOROUGH	BERKSHIRE	CHN of Berkshire
	LEE	BERKSHIRE	CHN of Berkshire
	LENOX	BERKSHIRE	CHN of Berkshire
	LEVERETT	FRANKLIN	Upper Valley Health Web
	LEYDEN	FRANKLIN	Upper Valley Health Web
	LONGMEADOW	HAMPDEN	The Community Health Connection

LUDLOW	HAMPDEN	Four (For) Communities
MIDDLEFIELD	HAMPSHIRE	Partnership for Health in Hampshire County
MONROE	FRANKLIN	Upper Valley Health Web
MONSON	HAMPDEN	The Community Health Connection
MONTAGUE	FRANKLIN	Upper Valley Health Web
MONTEREY	BERKSHIRE	CHN of Berkshire
MONTGOMERY	HAMPDEN	The Community Health Connection
MOUNT WASHINGTON	BERKSHIRE	CHN of Berkshire
NEW ASHFORD	BERKSHIRE	CHN of Berkshire
NEW MARLBOROUGH	BERKSHIRE	CHN of Berkshire
NEW SALEM	FRANKLIN	Upper Valley Health Web
NORTH ADAMS	BERKSHIRE	CHN of Berkshire
NORTHAMPTON	HAMPSHIRE	Partnership for Health in Hampshire County
NORTHFIELD	FRANKLIN	Upper Valley Health Web
ORANGE	FRANKLIN	Upper Valley Health Web
OTIS	BERKSHIRE	CHN of Berkshire
PALMER	HAMPDEN	The Community Health Connection
PELHAM	HAMPSHIRE	Partnership for Health in Hampshire County
PERU	BERKSHIRE	CHN of Berkshire
PETERSHAM	WORCESTER	Upper Valley Health Web
PHILLIPSTON	WORCESTER	Upper Valley Health Web
PITTSFIELD	BERKSHIRE	CHN of Berkshire
PLAINFIELD	HAMPSHIRE	Partnership for Health in Hampshire County
RICHMOND	BERKSHIRE	CHN of Berkshire
ROWE	FRANKLIN	Upper Valley Health Web
ROYALSTON	WORCESTER	Upper Valley Health Web
RUSSELL	HAMPDEN	The Community Health Connection
SANDISFIELD	BERKSHIRE	CHN of Berkshire
SAVOY	BERKSHIRE	CHN of Berkshire
SHEFFIELD	BERKSHIRE	CHN of Berkshire
SHELBURNE	FRANKLIN	Upper Valley Health Web
SHUTESBURY	FRANKLIN	Upper Valley Health Web
SOUTH HADLEY	HAMPSHIRE	Partnership for Health in Hampshire County
SOUTHAMPTON	HAMPSHIRE	Partnership for Health in Hampshire County
SOUTHWICK	HAMPDEN	The Community Health Connection
SPRINGFIELD	HAMPDEN	The Community Health Connection
STOCKBRIDGE	BERKSHIRE	CHN of Berkshire
SUNDERLAND	FRANKLIN	Upper Valley Health Web
TOLLAND	HAMPDEN	The Community Health Connection
TYRINGHAM	BERKSHIRE	CHN of Berkshire
WARE	HAMPSHIRE	Partnership for Health in Hampshire County
WARWICK	FRANKLIN	Upper Valley Health Web
WASHINGTON	BERKSHIRE	CHN of Berkshire
WENDELL	FRANKLIN	Upper Valley Health Web
WEST SPRINGFIELD	HAMPDEN	The Community Health Connection
WEST STOCKBRIDGE	BERKSHIRE	CHN of Berkshire
WESTFIELD	HAMPDEN	Four (For) Communities
WESTHAMPTON	HAMPSHIRE	Partnership for Health in Hampshire County
WHATELY	FRANKLIN	Upper Valley Health Web
WILBRAHAM	HAMPDEN	The Community Health Connection

	WILLIAMSBURG WILLIAMSTOWN WINDSOR WORTHINGTON	HAMPSHIRE BERKSHIRE BERKSHIRE HAMPSHIRE	Partnership for Health in Hampshire County CHN of Berkshire CHN of Berkshire Partnership for Health in Hampshire County
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DATA SOURCES

Massachusetts Division of Health Care Finance and Policy

MDPH, Bureau of Communicable Disease Control

MDPH, Bureau of Substance Abuse Services

MDPH, Environmental Health Bureau

MDPH, Health Information, Statistics, Research & Evaluation Bureau

SAMHSA, Office of Applied Studies