

Background

Regional summaries of inpatient, emergency department and observation stay utilization statistics include Massachusetts residents who have been discharged from Massachusetts acute care hospitals for the period beginning in October 1, 2008 to September 30, 2013 (Hospital Fiscal Year 2009 through 2013). Databooks are available as a complement to the report in order to provide more detail.

This analysis was produced using CHIA's Acute Hospital Case Mix Databases which are comprised of patient level discharge data submitted by Massachusetts acute hospitals prior to payment by a public payer or private insurer.

To learn more about the data and process used in the development of this report, please see the technical appendix. To see statewide utilization data, please go to <http://www.chiamass.gov/utilization-analysis>.

Regional Summary Links

[Cape and Islands](#)

[Central MA](#)

[Metro Boston](#)

[Metro South](#)

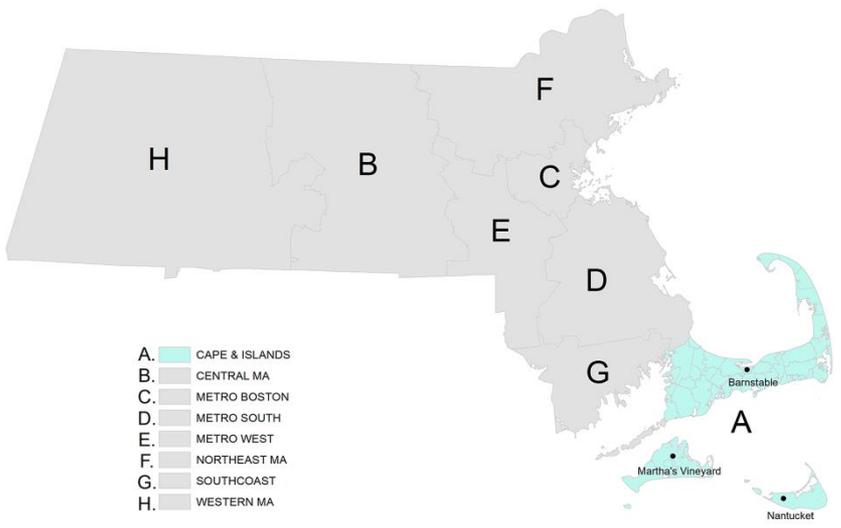
[Metro West](#)

[Northeast MA](#)

[Southcoast](#)

[Western MA](#)

Overview



Highlights

+89.1%
 Observation stay discharges increased by 89.1% for residents of the Cape & Islands from FY2009 (3,103 discharges) to FY2013 (5,867 discharges). This was the highest percentage increase across all regions.

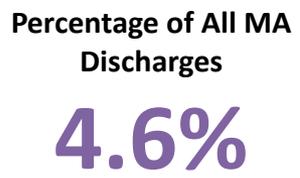
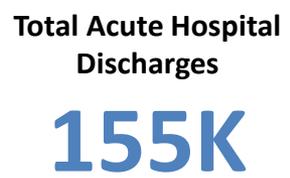
-4.1%
 Emergency department discharges declined by 4.1% on the Cape & Islands from FY2012 to FY2013. This is the largest decrease in emergency department discharges of all regions.

73.6%
 Discharges from Cape Cod Hospital and Falmouth Hospital accounted for 73.6% of all the Cape & Islands residents' discharges in FY2013.

24.6%
 The proportion of people 65 and older on the Cape & Islands was 24.6% compared to 14.1% statewide. This was the highest of all regions.

Discharges

Percentage Change in Discharges from FY2012 to FY2013

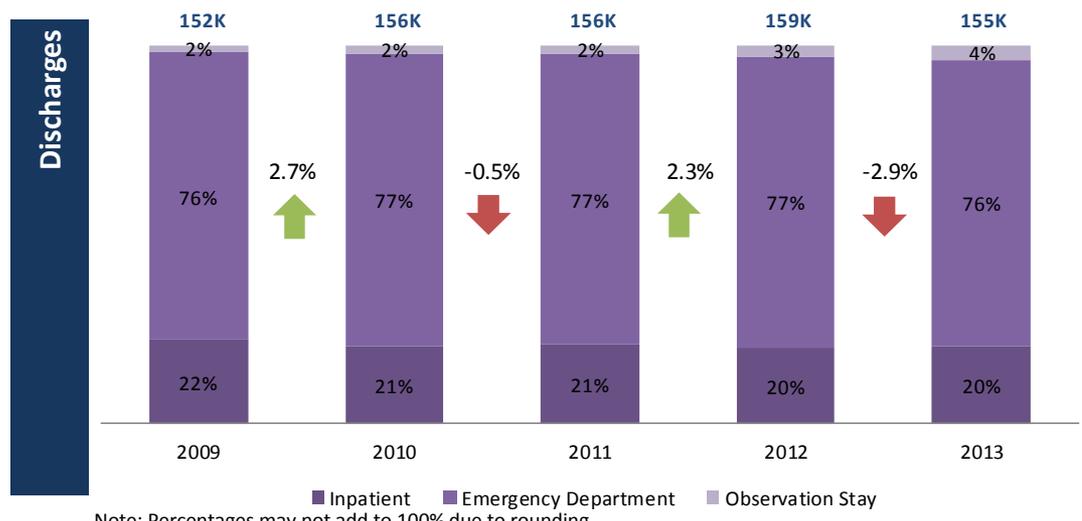


Demographics and Hospital Discharge Trends

Demographics	ACS 5-year Estimates (2009-2013)*	Cape & Islands	MA
	Total Population		243,553
Percent of MA Population		3.7%	100.0%
Age Groups			
0-19		19.3%	24.5%
20-64		56.1%	61.4%
65+		24.6%	14.1%
Ethnicity			
Hispanic		2.5%	9.9%
Non-Hispanic			
White		91.3%	75.7%
Black/African American		2.4%	6.3%
Asian		1.1%	5.5%
Other Races**		1.1%	0.8%
Two or More Races		1.6%	1.8%
Income			
Mean Household Income		\$81,468	\$90,871
Below Poverty Level		9.3%	11.0%

Discharges	Number of Discharges of Cape Cod Residents from MA Acute Care Hospitals					Percent Change	
	2009	2010	2011	2012	2013	2012-2013	2009-2013
Inpatient	33,547	32,059	32,515	31,949	31,381	-1.8%	-6.5%
ED	115,579	120,616	119,285	122,344	117,294	-4.1%	1.5%
Obs. Stay	3,103	3,682	3,840	4,849	5,867	21.0%	89.1%
TOTAL	152,229	156,357	155,640	159,142	154,542	-2.9%	1.5%

*Source: U.S. Department of Commerce United States Census Bureau <http://factfinder2.census.gov>
 **Includes Native and Pacific Islander and American Indian/Alaskan Native



Hospital Discharge Trends

Top 5 Hospitals

By **Total Discharges** for Regional Residents*, FY2013

Hospital Sites	2013 Regional Discharges	% Regional Discharges	Percentage of Discharges			% Change 2012-2013
			Inpatient	ED	Obs. Stay	
Cape Cod Hospital	80,742	52.2%	18.7%	79.1%	2.2%	-3.2%
Falmouth Hospital	33,048	21.4%	17.9%	76.9%	5.2%	-5.3%
Martha's Vineyard Hospital	11,649	7.5%	9.0%	86.5%	4.5%	2.3%
Nantucket Cottage Hospital	7,391	4.8%	6.8%	90.3%	2.9%	7.9%
Southcoast Hospitals Group - Tobey Hospital Campus	4,557	2.9%	17.2%	78.5%	4.3%	3.3%
ALL OTHERS	17,155	11.1%	47.0%	44.7%	8.4%	-5.9%
TOTAL	154,542	100.0%	20.3%	75.9%	3.8%	-2.9%

Note: Numbers may not add to 100% due to rounding

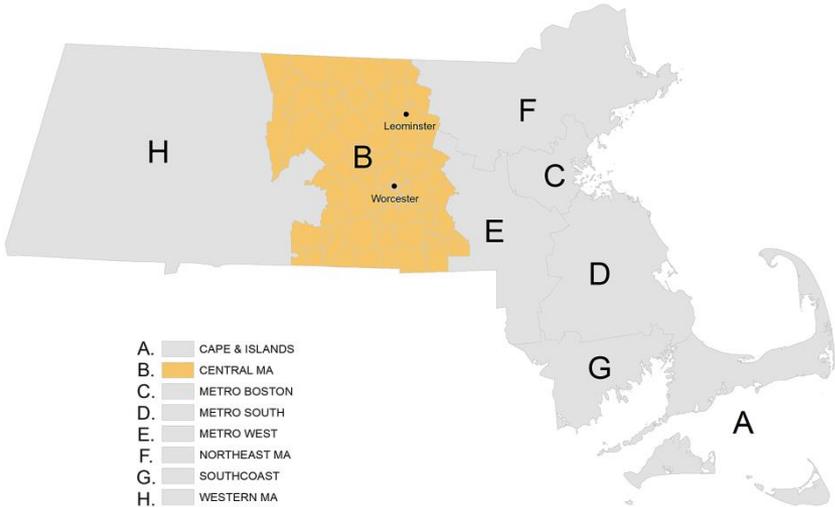
*Regional discharge counts are based on patients' zip code not hospital zip code and may include hospitals outside the region.

Top 5 MS-DRGs

For **Inpatient Discharges** for Regional Residents, FY2013

MS-DRG (DRG Code)	2013 Regional Discharges	% of Regional Discharges	MA % Discharges
Major joint replacement or reattachment of lower extremity w/o MCC (470)	1,513	4.8%	3.0%
Normal newborn (795)	1,218	3.9%	5.9%
Vaginal delivery w/o complicating diagnoses (775)	1,013	3.2%	5.0%
Septicemia or severe sepsis w/o MV 96+ hours w MCC (871)	933	3.0%	1.9%
Psychoses (885)	873	2.8%	3.9%

Overview



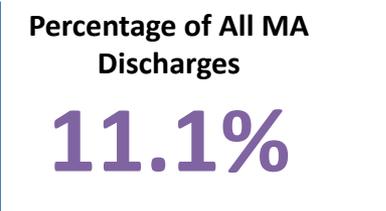
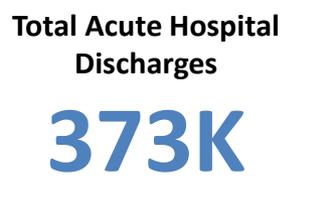
Highlights

-1.1%
 Total acute care hospital discharges for Central MA residents decreased by 1.1% despite a modest increase in population from FY2012 to FY2013. Central MA and Western MA were the only two regions for which all discharge types declined in this time period.

UMass Memorial Health Care
 Three of the top five hospital sites by total number of regional discharges were affiliated with UMass Memorial Health Care (UMass Memorial Medical Center - University Campus, UMass Memorial Medical Center - Memorial Campus and HealthAlliance Hospital - Leominster Campus). These three hospital sites accounted for 46.9% of all discharges in the region in FY2013.

Discharges

Percentage Change in Discharges from FY2012 to FY2013

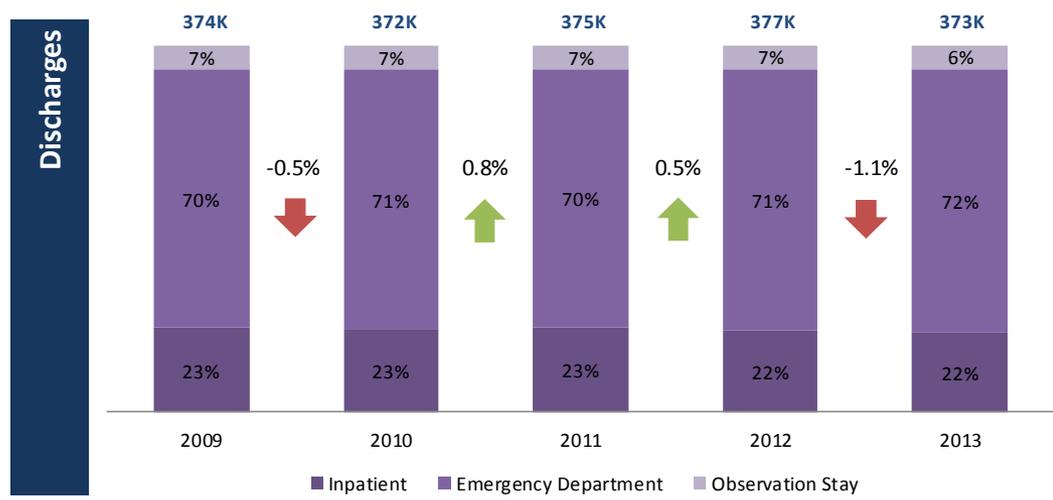


Demographics and Hospital Discharge Trends

Demographics	ACS 5-year Estimates (2009-2013)*		Central MA	MA
	Total Population		751,606	6,605,053
	Percent of MA Population		11.4%	100.0%
	Age Groups			
	0-19		25.9%	24.5%
	20-64		60.8%	61.4%
	65+		13.2%	14.1%
	Ethnicity			
	Hispanic		9.8%	9.9%
	Non-Hispanic			
	White	80.2%	75.7%	
	Black/African American	4.0%	6.3%	
	Asian	4.1%	5.5%	
	Other Races**	0.4%	0.8%	
	Two or More Races	1.5%	1.8%	
Income				
Mean Household Income		\$79,719	\$90,871	
Below Poverty Level		11.1%	11.0%	

*Source: U.S. Department of Commerce United States Census Bureau <http://factfinder2.census.gov>
 **Includes Native and Pacific Islander and American Indian/Alaskan Native

Discharges	Number of Discharges of Central MA Residents from MA Acute Care Hospitals					Percent Change		
		2009	2010	2011	2012	2013	2012-2013	2009-2013
	Inpatient	85,864	83,913	86,808	83,461	80,439	-3.6%	-6.3%
	ED	263,714	263,209	263,679	269,184	268,676	-0.2%	1.9%
	Obs. Stay	24,877	25,280	24,970	24,626	23,892	-3.0%	-4.0%
	TOTAL	374,455	372,402	375,457	377,271	373,007	-1.1%	-0.4%



Note: Percentages may not add to 100% due to rounding

Hospital Discharge Trends

Top 5 Hospitals

By **Total Discharges** for Regional Residents*, FY2013

Hospital Sites	2013 Regional Discharges	% Regional Discharges	Percentage of Discharges			% Change 2012-2013
			Inpatient	ED	Obs. Stay	
UMass Memorial Medical Center - University Campus	85,893	23.0%	20.1%	69.2%	10.7%	-5.7%
Saint Vincent Hospital	59,359	15.9%	26.8%	66.9%	6.3%	0.2%
UMass Memorial Medical Center - Memorial Campus	48,036	12.9%	34.4%	65.6%	0.0%	-5.7%
HealthAlliance Hospital - Leominster Campus	41,129	11.0%	17.3%	82.7%	0.0%	1.5%
Harrington Memorial Hospital	35,872	9.6%	11.1%	85.5%	3.4%	2.3%
ALL OTHERS	102,718	27.5%	19.1%	71.4%	9.5%	2.2%
TOTAL	373,007	100.0%	21.6%	72.0%	6.4%	-1.1%

Note: Numbers may not add to 100% due to rounding

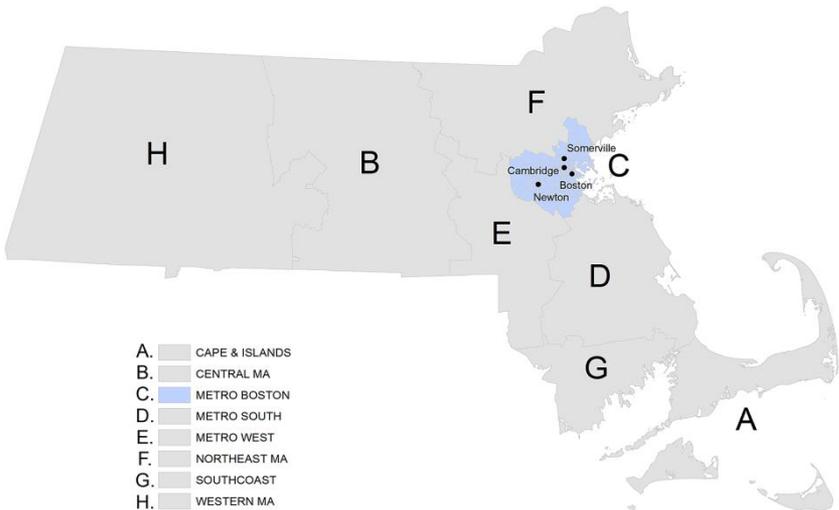
*Regional discharge counts are based on patients' zip code not hospital zip code and may include hospitals outside the region.

Top 5 MS-DRG

For **Inpatient Discharges** for Regional Residents, FY2013

MS-DRG (DRG Code)	2013 Regional Discharges	% of Regional Discharges	MA % Discharges
Normal newborn (795)	4,798	6.0%	5.9%
Vaginal delivery w/o complicating diagnoses (775)	4,393	5.5%	5.0%
Psychoses (885)	3,673	4.6%	3.9%
Major joint replacement or reattachment of lower extremity w/o MCC (470)	2,257	2.8%	3.0%
Neonate w other significant problems (794)	2,182	2.7%	2.2%

Overview



Highlights

-4.9%

Inpatient discharges decreased by 4.9% for residents of Metro Boston, the greatest decrease of any region from FY2012 to FY2013.

Partners Healthcare System

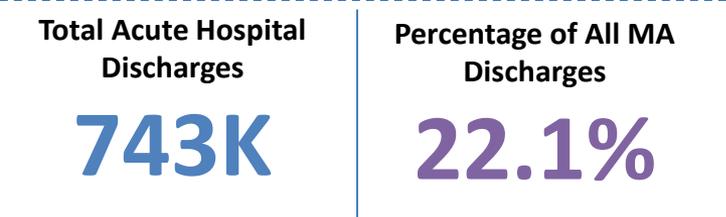
Three of the top five hospital sites by total number of regional discharges were affiliated with Partners Healthcare System (Massachusetts General Hospital, Brigham and Women’s Hospital and Newton-Wellesley Hospital). These three hospitals accounted for 23.8% of all discharges in the region in FY2013.

\$98,193

The average mean household income in Metro Boston was \$98,193, an increase of 2.0% from 2012 to 2013 compared to the statewide average increase of 1.0% during the same time period. The percentage of Metro Boston residents below the poverty level was 14.0%. The poverty level did not decline from 2012 to 2013.

Discharges

Percentage Change in Discharges from FY2012 to FY2013

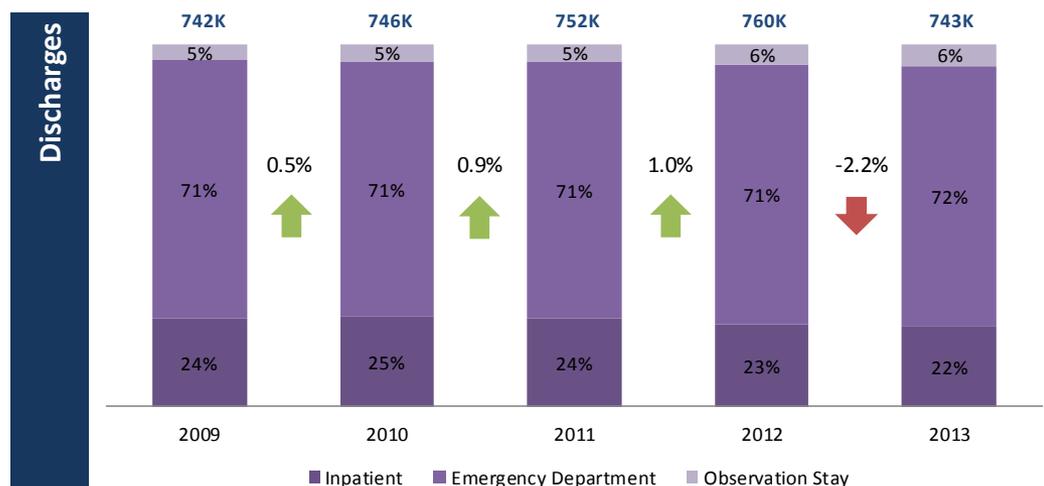


Demographics and Hospital Discharge Trends

ACS 5-year Estimates (2009-2013)*		
	Metro Boston	MA
Total Population	1,558,898	6,605,053
Percent of MA Population	23.6%	100.0%
Age		
0-19	22.0%	24.5%
20-64	65.9%	61.4%
65+	12.1%	14.1%
Ethnicity		
Hispanic	13.5%	9.9%
Non-Hispanic		
White	60.8%	75.7%
Black/African American	12.7%	6.3%
Asian	9.7%	5.5%
Other Races**	0.9%	0.8%
Two or More Races	2.3%	1.8%
Income		
Mean Household Income	\$98,193	\$90,871
Below Poverty Level	14.0%	11.0%

	Number of Discharges of Metro Boston Residents from MA Acute Care Hospitals					Percent Change	
	2009	2010	2011	2012	2013	2012-2013	2009-2013
Inpatient	181,596	183,427	181,405	173,089	164,585	-4.9%	-9.4%
ED	525,974	525,936	532,456	542,454	533,695	-1.6%	1.5%
Obs. Stay	34,443	36,219	38,160	44,295	44,582	0.6%	29.4%
TOTAL	742,013	745,582	752,021	759,838	742,862	-2.2%	0.1%

*Source: U.S. Department of Commerce United States Census Bureau <http://factfinder2.census.gov>
 **Includes Native and Pacific Islander and American Indian/Alaskan Native



Note: Percentages may not add to 100% due to rounding

Hospital Discharge Trends

Top 5 Hospitals

By Total Discharges for Regional Residents*, FY2013

Hospital Sites	2013 Regional Discharges	% Regional Discharges	Percentage of Discharges			% Change 2012-2013
			Inpatient	ED	Obs. Stay	
Boston Medical Center - Menino Pavilion Campus	117,373	15.8%	16.5%	77.9%	5.6%	0.7%
Massachusetts General Hospital	70,880	9.5%	32.9%	63.8%	3.3%	-3.5%
Brigham and Women's Hospital	54,205	7.3%	38.9%	50.5%	10.6%	-1.3%
Newton-Wellesley Hospital	52,088	7.0%	18.7%	75.9%	5.4%	-2.1%
Beth Israel Deaconess Medical Center - East Campus	43,573	5.9%	39.8%	44.6%	15.7%	-5.8%
ALL OTHERS	404,743	54.5%	18.2%	76.8%	5.0%	-2.6%
TOTAL	742,862	100.0%	22.2%	71.8%	6.0%	-2.2%

Note: Numbers may not add to 100% due to rounding

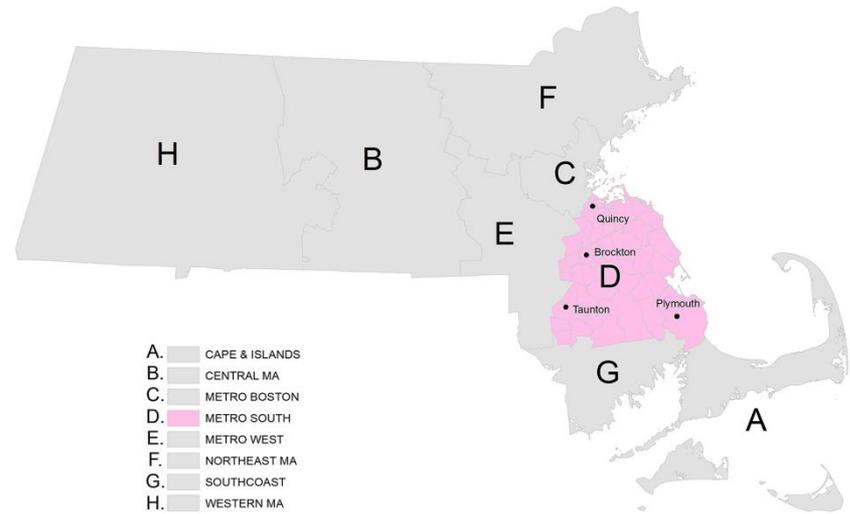
*Regional discharge counts are based on patients' zip code not hospital zip code and may include hospitals outside the region.

Top 5 MS-DRGs

For Inpatient Discharges for Regional Residents, FY2013

MS-DRG (DRG Code)	2013 Regional Discharges	% of Regional Discharges	MA % Discharges
Normal newborn (795)	12,404	7.5%	5.9%
Vaginal delivery w/o complicating diagnoses (775)	10,546	6.4%	5.0%
Psychoses (885)	6,106	3.7%	3.9%
Neonate w other significant problems (794)	4,432	2.7%	2.2%
Major joint replacement or reattachment of lower extremity w/o MCC (470)	3,941	2.4%	3.0%

Overview

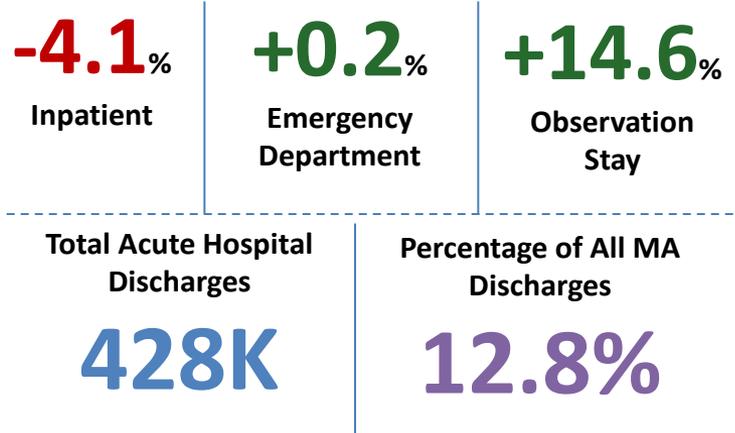


Highlights

- 9.5%**
Inpatient discharges for residents of Metro South decreased by 9.5% from FY2009 to FY2013, the highest of all regions during this time period.
- +51.4%**
Metro South observation stay discharges increased by 51.4% from FY2009 to FY2013.
- 82.9%**
Emergency department discharges accounted for 82.9% of Morton Hospital’s discharges in FY2013 for residents of this region. This was higher than the regional average of 61.3% and the statewide average of 71.8%.

Discharges

Percentage Change in Discharges from FY2012 to FY2013

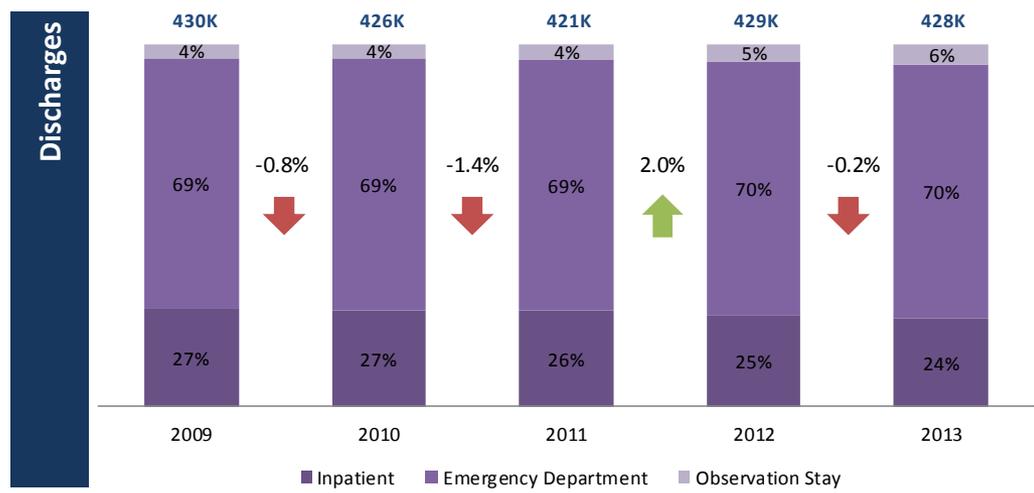


Demographics and Hospital Discharge Trends

Demographics	ACS 5-year Estimates (2009-2013)*	
	Metro South	MA
Total Population	814,118	6,605,053
Percent of MA Population	12.3%	100.0%
Age Groups		
0-19	25.1%	24.5%
20-64	60.4%	61.4%
65+	14.5%	14.1%
Ethnicity		
Hispanic	3.6%	9.9%
Non-Hispanic		
White	80.8%	75.7%
Black/African American	8.6%	6.3%
Asian	4.2%	5.5%
Other Races**	1.0%	0.8%
Two or More Races	1.8%	1.8%
Income		
Mean Household Income	\$90,275	\$90,871
Below Poverty Level	7.9%	11.0%

Discharges	Number of Discharges of Metro South Residents from MA Acute Care Hospitals					Percent Change	
	2009	2010	2011	2012	2013	2012-2013	2009-2013
Inpatient	115,041	113,009	111,029	108,567	104,114	-4.1%	-9.5%
ED	298,172	296,284	291,132	298,571	299,156	0.2%	0.3%
Obs. Stay	16,474	17,104	18,370	21,765	24,939	14.6%	51.4%
TOTAL	429,687	426,397	420,531	428,903	428,209	-0.2%	-0.3%

*Source: U.S. Department of Commerce United States Census Bureau <http://factfinder2.census.gov>
 **Includes Native and Pacific Islander and American Indian/Alaskan Native



Note: Percentages may not add to 100% due to rounding

Hospital Discharge Trends

Top 5 Hospitals

By Total Discharges for Regional Residents*, FY2013

Hospital Sites	2013 Total Discharges	% Regional Discharges	Percentage of Discharges			% Change 2012-2013
			Inpatient	ED	Obs. Stay	
South Shore Hospital	87,532	20.4%	26.6%	65.9%	7.5%	1.5%
Signature Healthcare Brockton Hospital	62,199	14.5%	19.8%	75.3%	4.9%	6.5%
Steward Good Samaritan Medical Center - Brockton Campus	54,570	12.7%	23.1%	73.0%	3.9%	1.7%
Morton Hospital, A Steward Family Hospital, Inc.	48,711	11.4%	12.1%	82.9%	5.0%	-2.2%
Jordan Hospital**	41,646	9.7%	16.9%	77.9%	5.1%	-7.6%
ALL OTHERS	133,551	31.2%	32.1%	61.4%	6.4%	-1.6%
TOTAL	428,209	100.0%	24.3%	69.9%	5.8%	-0.2%

Note: Numbers may not add to 100% due to rounding

*Regional discharge counts are based on patients' zip code not hospital zip code and may include hospitals outside the region.

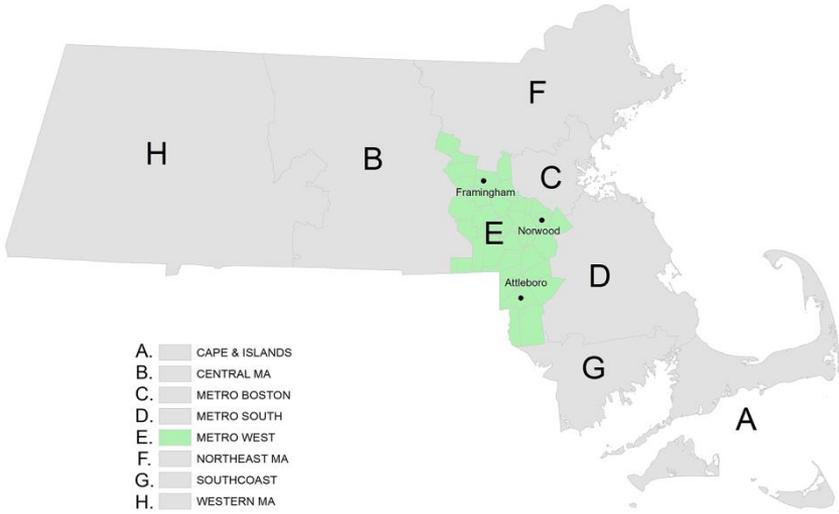
**Jordan Hospital became Beth Israel Deaconess Hospital-Plymouth on January 1, 2014.

Top 5 MS-DRGs

For Inpatient Discharges for Regional Residents, FY2013

MS-DRG (DRG Code)	2013 Regional Discharges	% of Regional Discharges	MA % Discharges
Normal newborn (795)	5,270	5.1%	5.9%
Vaginal delivery w/o complicating diagnoses (775)	4,316	4.1%	5.0%
Major joint replacement or reattachment of lower extremity w/o MCC (470)	3,298	3.2%	3.0%
Esophagitis, gastroent & misc digest disorders w/o MCC (392)	2,912	2.8%	2.4%
Psychoses (885)	2,625	2.5%	3.9%

Overview



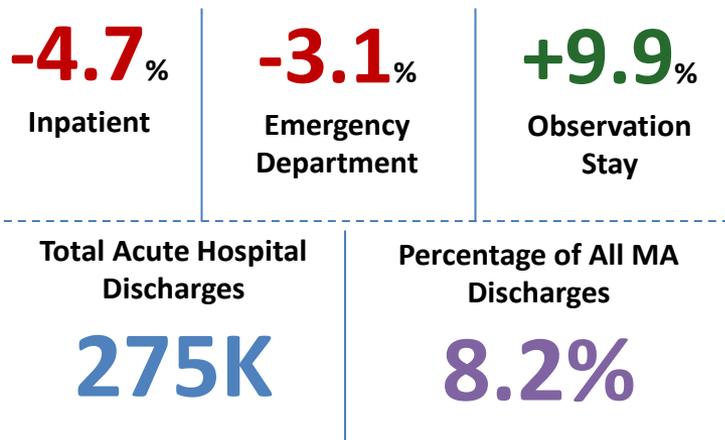
Highlights

-2.7%
 Total acute care hospital discharges for Metro West residents decreased by 2.7% from FY2012 to FY2013, the second largest decrease during this time period (the Cape & Island’s discharges decreased by 2.9%).

\$111,612
 The average household income in Metro West was \$111,612. It remained the highest of all regions from 2012 to 2013. In addition, the proportion of people below the poverty level remained the lowest of all the regions (5.7%).

Discharges

Percentage Change in Discharges from FY2012 to FY2013

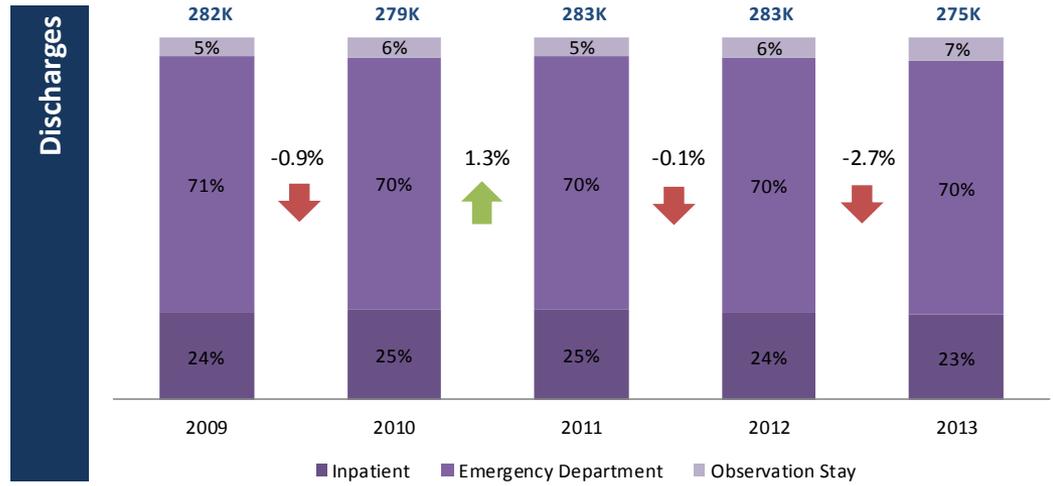


Demographics and Hospital Discharge Trends

ACS 5-year Estimates (2009-2013)*		Metro West	MA
Total Population		662,314	6,605,053
Percent of MA Population		10.0%	100.0%
Age Groups			
0-19		26.6%	24.5%
20-64		60.4%	61.4%
65+		13.0%	14.1%
Ethnicity			
Hispanic		4.8%	9.9%
Non-Hispanic			
White		85.2%	75.7%
Black/African American		2.6%	6.3%
Asian		4.9%	5.5%
Other Races**		0.7%	0.8%
Two or More Races		1.7%	1.8%
Economic Indicators			
Mean Household Income		\$111,612	\$90,871
Below Poverty Level		5.7%	11.0%

	Number of Discharges of Metro West Residents from MA Acute Care Hospitals					Percent Change	
	2009	2010	2011	2012	2013	2012-2013	2009-2013
Inpatient	67,438	69,498	70,521	67,442	64,304	-4.7%	-4.6%
ED	199,216	194,325	197,085	198,804	192,705	-3.1%	-3.3%
Obs. Stay	15,113	15,500	15,454	16,461	18,088	9.9%	19.7%
TOTAL	281,767	279,323	283,060	282,707	275,097	-2.7%	-2.4%

*Source: U.S. Department of Commerce United States Census Bureau <http://factfinder2.census.gov>
 **Includes Native and Pacific Islander and American Indian/Alaskan Native



Note: Percentages may not add to 100% due to rounding

Hospital Discharge Trends

Top 5 Hospitals

By Total Discharges for Regional Residents*, FY2013

Hospital Sites	2013 Regional Discharges	% Regional Discharges	Percentage of Discharges			% Change 2012-2013
			Inpatient	ED	Obs. Stay	
Sturdy Memorial Hospital	45,021	16.4%	13.2%	82.1%	4.6%	0.3%
MetroWest Medical Center - Framingham Campus	44,747	16.3%	16.8%	75.1%	8.1%	-6.8%
Steward Norwood Hospital, Inc.	35,865	13.0%	24.2%	71.8%	4.1%	-5.4%
Milford Regional Medical Center	35,097	12.8%	14.8%	79.0%	6.2%	-2.2%
Marlborough Hospital	20,060	7.3%	13.2%	80.3%	6.5%	3.2%
ALL OTHERS	94,307	34.3%	36.4%	55.7%	7.9%	-2.3%
TOTAL	275,097	100.0%	23.4%	70.0%	6.6%	-2.7%

Note: Numbers may not add to 100% due to rounding

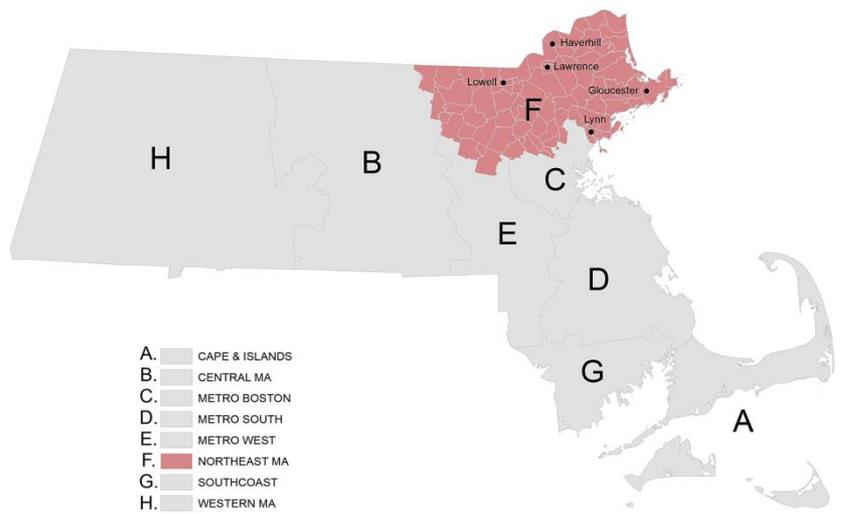
*Regional discharge counts are based on patients' zip code not hospital zip code and may include hospitals outside the region.

Top 5 MS-DRGs

For Inpatient Discharges for Regional Residents, FY2013

MS-DRG (DRG Code)	2013 Regional Discharges	% of Regional Discharges	MA % Discharges
Normal newborn (795)	3,971	6.2%	5.9%
Vaginal delivery w/o complicating diagnoses (775)	3,334	5.2%	5.0%
Psychoses (885)	2,516	3.9%	3.9%
Major joint replacement or reattachment of lower extremity w/o MCC (470)	2,243	3.5%	3.0%
Esophagitis, gastroent & misc digest disorders w/o MCC (392)	1,621	2.5%	2.4%

Overview



Highlights

Top Five Hospital Sites by Volume of Regional Discharges

This indicates that regional discharges are less concentrated among the top 5 hospital sites. These sites account for 44.4% of all regional discharges for the residents of Northeast MA, which is the lowest proportion when compared to all other regions.

\$101,807

The mean household income of people residing in Northeast MA was \$101,807 in 2013, the second highest among the regions.

Discharges

Percentage Change in Discharges from FY2012 to FY2013

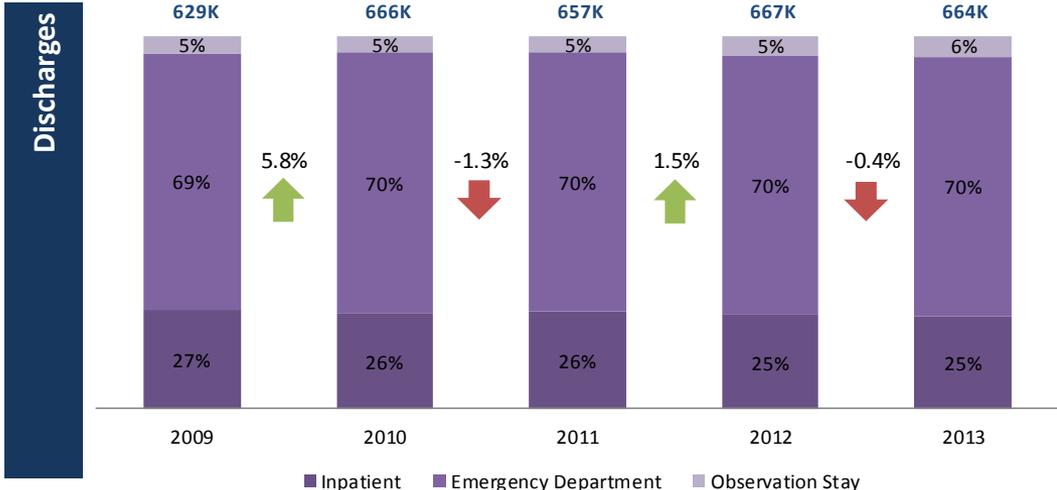


Demographics and Hospital Discharge Trends

ACS 5-year Estimates (2009-2013)*		
	Northeast MA	MA
Total Population	1,413,553	6,605,053
Percent of MA Population	21.4%	100.0%
Age Groups		
0-19	25.8%	24.5%
20-64	60.0%	61.4%
65+	14.1%	14.1%
Ethnicity		
Hispanic	11.6%	9.9%
Non-Hispanic		
White	77.5%	75.7%
Black/African American	2.7%	6.3%
Asian	6.3%	5.5%
Other Races**	0.5%	0.8%
Two or More Races	1.4%	1.8%
Income		
Mean Household Income	\$101,807	\$90,871
Below Poverty Level	8.9%	11.0%

*Source: U.S. Department of Commerce United States Census Bureau <http://factfinder2.census.gov>
 **Includes Native and Pacific Islander and American Indian/Alaskan Native

	Number of Discharges of Northeast MA Residents from MA Acute Care Hospitals					Percent Change	
	2009	2010	2011	2012	2013	2012-2013	2009-2013
Inpatient	167,434	171,025	170,703	167,720	164,665	-1.8%	-1.7%
ED	432,231	464,456	456,572	463,904	462,712	-0.3%	7.1%
Obs. Stay	29,372	30,048	29,610	35,293	36,666	3.9%	24.8%
TOTAL	629,037	665,529	656,885	666,917	664,043	-0.4%	5.6%



Note: Percentages may not add to 100% due to rounding

Hospital Discharge Trends

Top 5 Hospitals

By Total Discharges for Regional Residents*, FY2013

Hospital Sites	2013 Regional Discharges	% Regional Discharges	Percentage of Discharges			% Change 2012-2013
			Inpatient	ED	Obs. Stay	
Lawrence General Hospital	68,579	10.3%	17.3%	78.6%	4.1%	-2.0%
North Shore Medical Center - Salem Campus	66,279	10.0%	20.8%	73.3%	5.8%	-0.6%
Lowell General Hospital	60,503	9.1%	27.4%	70.6%	2.0%	5.7%
Northeast Hospital - Beverly Campus	54,325	8.2%	31.5%	61.5%	7.0%	-0.2%
Steward Holy Family Hospital, Inc.	45,305	6.8%	18.7%	78.0%	3.3%	4.6%
ALL OTHERS	369,052	55.6%	26.2%	67.4%	6.4%	-1.7%
TOTAL	664,043	100.0%	24.8%	69.7%	5.5%	-0.4%

Note: Numbers may not add to 100% due to rounding

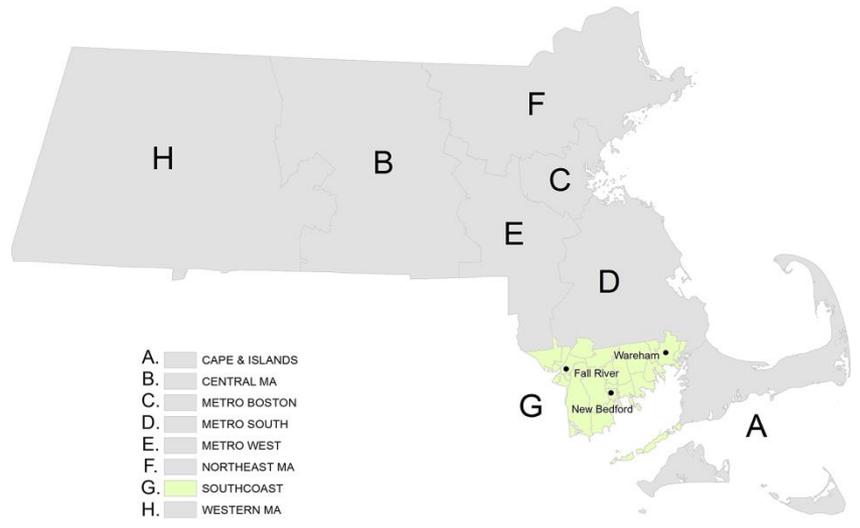
*Regional discharge counts are based on patients' zip code not hospital zip code and may include hospitals outside the region.

Top 5 MS-DRGs

For Inpatient Discharges for Regional Residents, FY2013

MS-DRG (DRG Code)	2013 Regional Discharges	% of Regional Discharges	MA % Discharges
Normal newborn (795)	9,584	5.8%	5.9%
Vaginal delivery w/o complicating diagnoses (775)	8,175	5.0%	5.0%
Psychoses (885)	6,453	3.9%	3.9%
Major joint replacement or reattachment of lower extremity w/o MCC (470)	5,366	3.3%	3.0%
Esophagitis, gastroent & misc digest disorders w/o MCC (392)	4,121	2.5%	2.4%

Overview



Highlights

+2.0%

Total acute care hospital discharges increased by 2.0% from FY2012 to FY2013 for Southcoast, the only region with an increase in overall discharges in this time period. This was partially driven by the 2.5% increase in emergency department discharges during the same time period.

+54.0%

Observation stay discharges increased by 54.0% from FY2009 to FY2013 in the Southcoast region. This was the second highest observation stay increase among all regions (Cape & Islands was 89.1%) over this time period.

93.2%

The top five Massachusetts hospitals by discharge volume in the region accounted for 93.2% of all Southcoast residents' discharges in FY2013 (Southcoast Hospital Group's St. Luke's Campus, Charlton Memorial Campus and Tobey Hospital Campus, Steward St. Anne's Hospital, Inc. and Morton Hospital, A Steward Family Hospital). The Southcoast Health System accounted for 75.8% of the region's discharges.

15.3%

The proportion of Southcoast residents below the poverty level was 15.3%, which was the highest among all regions. In addition, Southcoast was one of only two regions that had a decline in average household income from 2012 to 2013.

Discharges

Percentage Change in Discharges from FY2012 to FY2013

-3.5%
Inpatient

+2.5%
Emergency Department

+20.6%
Observation Stay

Total Acute Hospital Discharges

236K

Percentage of All MA Discharges

7.0%

Demographics and Hospital Discharge Trends

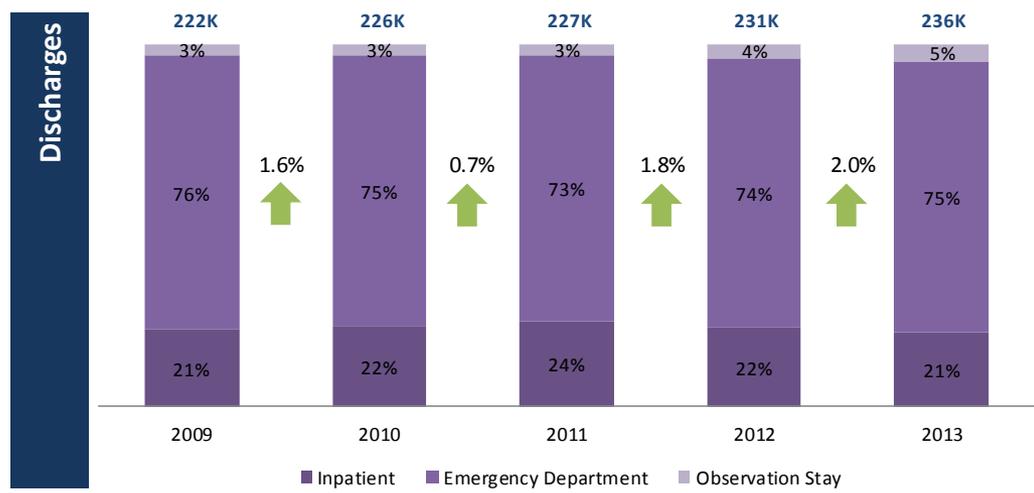
Demographics

ACS 5-year Estimates (2009-2013)*	Southcoast	MA
Total Population	340,256	6,605,053
Percent of MA Population	5.2%	100.0%
Age Groups		
0-19	23.3%	24.5%
20-64	60.0%	61.4%
65+	16.7%	14.1%
Ethnicity		
Hispanic	7.5%	9.9%
Non-Hispanic		
White	83.5%	75.7%
Black/African American	3.1%	6.3%
Asian	1.5%	5.5%
Other Races**	1.8%	0.8%
Two or More Races	2.6%	1.8%
Income		
Mean Household Income	\$63,315	\$90,871
Below Poverty Level	15.3%	11.0%

*Source: U.S. Department of Commerce United States Census Bureau <http://factfinder2.census.gov>
 **Includes Native and Pacific Islander and American Indian/Alaskan Native

Discharges

	Number of Discharges of Southcoast Residents from MA Acute Care Hospitals					Percent Change	
	2009	2010	2011	2012	2013	2012-2013	2009-2013
Inpatient	46,908	49,770	53,737	50,140	48,407	-3.5%	3.2%
ED	167,873	168,691	166,865	171,909	176,281	2.5%	5.0%
Obs. Stay	7,390	7,333	6,838	9,431	11,377	20.6%	54.0%
TOTAL	222,171	225,794	227,440	231,480	236,065	2.0%	6.3%



Note: Percentages may not add to 100% due to rounding

Hospital Discharge Trends

Top 5 Hospitals

By Total Discharges for Regional Residents*, FY2013

Hospital Sites	2013 Regional Discharges	% Regional Discharges	Percentage of Discharges			% Change 2012-2013
			Inpatient	ED	Obs. Stay	
Southcoast Hospitals Group - St. Luke's Campus	86,796	36.8%	21.4%	73.5%	5.0%	0.4%
Southcoast Hospitals Group - Charlton Memorial Campus	67,357	28.5%	19.5%	75.3%	5.1%	3.1%
Steward Saint Anne's Hospital, Inc.	39,042	16.5%	15.2%	81.7%	3.2%	3.6%
Southcoast Hospitals Group - Tobey Hospital Campus	24,721	10.5%	14.3%	81.5%	4.2%	2.7%
Morton Hospital, A Steward Family Hospital, Inc.	2,083	0.9%	12.4%	83.7%	3.9%	-2.6%
ALL OTHERS	16,066	6.8%	43.1%	49.5%	7.4%	1.7%
TOTAL	236,065	100.0%	20.5%	74.7%	4.8%	2.0%

Note: Numbers may not add to 100% due to rounding

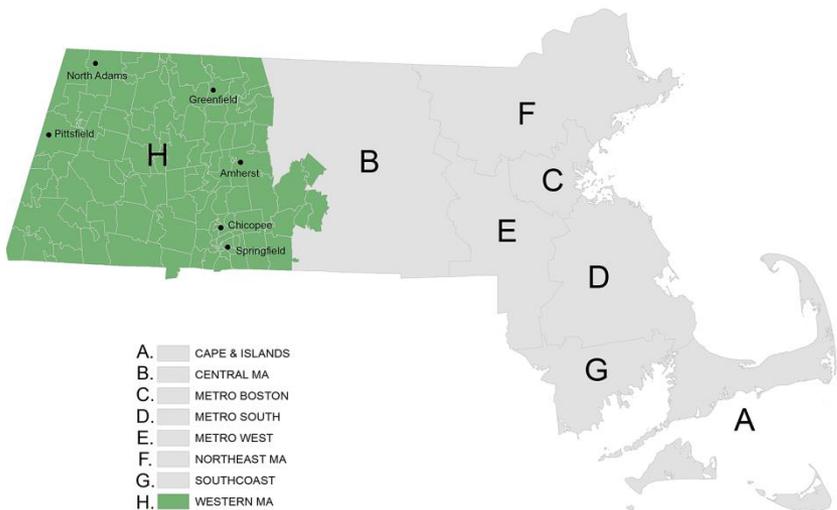
*Regional discharge counts are based on patients' zip code not hospital zip code and may include hospitals outside the region.

Top 5 MS-DRGs

For Inpatient Discharges for Regional Residents, FY2013

MS-DRG (DRG Code)	2013 Regional Discharges	% of Regional Discharges	MA % Discharges
Normal newborn (795)	2,292	4.7%	5.9%
Vaginal delivery w/o complicating diagnoses (775)	1,820	3.8%	5.0%
Psychoses (885)	1,447	3.0%	3.9%
Esophagitis, gastroent & misc digest disorders w/o MCC (392)	1,432	3.0%	2.4%
Septicemia or severe sepsis w/o MV 96+ hours w MCC (871)	1,144	2.4%	1.9%

Overview



Percentage Change in Discharges from FY2012 to FY2013

-0.1%
Inpatient

-0.8%
Emergency Department

-3.4%
Observation Stay

Total Acute Hospital Discharges

467K

Percentage of All MA Discharges

13.9%

Highlights

-0.8%

Total acute care hospital discharges decreased by 0.8% from FY2012 to FY2013. Western MA and Central MA were the only two regions for which all discharge types declined in this time period.

Mental Health and Substance Abuse

Psychoses (885) remained the top MS-DRG in FY2013 for Western MA representing 5.7% of inpatient discharges in the region compared to 3.9% of all inpatient discharges statewide. MS-DRG 895 relates to inpatient discharges for alcohol/drug abuse or dependence with rehabilitation therapy. This MS-DRG was ranked the fifth highest for Western MA compared to 54th statewide in FY2013. In Western MA, virtually all inpatient discharges for Providence Behavioral Health Hospital were categorized as either Mental Health or Substance Abuse. This utilization report is based primarily on non-specialized acute care hospitals, the inclusion of Providence Behavioral Health Hospital's discharges likely contributed to the region's higher utilization for MS-DRGs 885 and 895.

\$68,200

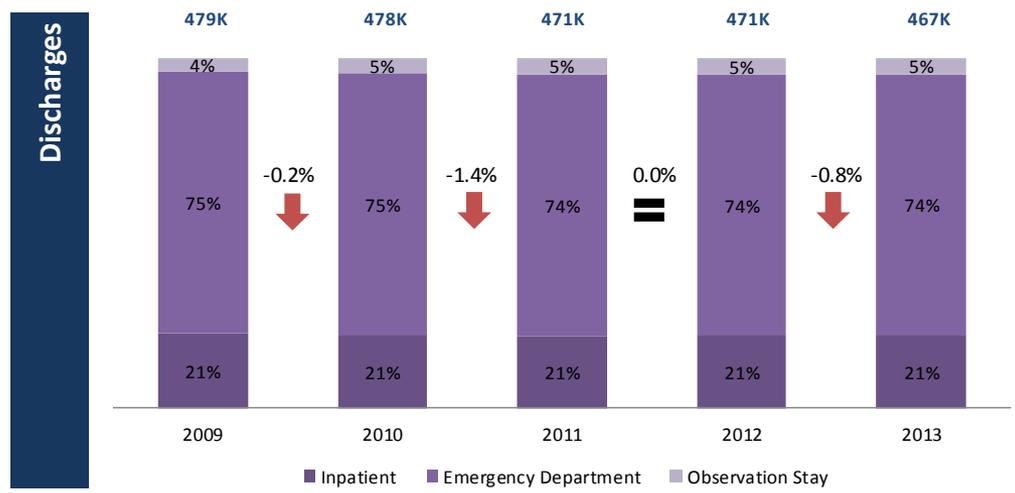
The mean household income in Western MA was \$68,200, the second lowest region; likewise, the proportion of those under the poverty level was 14.8%, the second highest region. Only the Southcoast region had lower mean household income and a higher poverty level.

Demographics and Hospital Discharge Trends

ACS 5-year Estimates (2009-2013)		
	Western MA	MA
Total Population	820,755	6,605,053
Percent of MA Population	12.4%	100.0%
Age Groups		
0-19	25.1%	24.5%
20-64	59.8%	61.4%
65+	15.2%	14.1%
Ethnicity		
Hispanic	14.0%	9.9%
Non-Hispanic		
White	76.2%	75.7%
Black/African American	5.4%	6.3%
Asian	2.4%	5.5%
Other Races ²	0.4%	0.8%
Two or More Races	1.6%	1.8%
Income		
Mean Household Income	\$68,200	\$90,871
Below Poverty Level	14.8%	11.0%

	Number of Discharges of Western MA Residents from MA Acute Care Hospitals					Percent Change	
	2009	2010	2011	2012	2013	2012-2013	2009-2013
Inpatient	101,816	100,027	96,994	97,783	97,671	-0.1%	-4.1%
ED	357,847	355,933	350,356	349,575	346,816	-0.8%	-3.1%
Obs. Stay	18,989	21,594	23,417	23,634	22,837	-3.4%	20.3%
TOTAL	478,652	477,554	470,767	470,992	467,324	-0.8%	-2.4%

*Source: U.S. Department of Commerce United States Census Bureau <http://factfinder2.census.gov>
 **Includes Native and Pacific Islander and American Indian/Alaskan Native



Note: Percentages may not add to 100% due to rounding

Hospital Discharge Trends

Top 5 Hospitals

By Total Discharges for Regional Residents*, FY2013

Hospital Sites	2013 Regional Discharges	% Regional Discharges	Percentage of Discharges			% Change 2012-2013
			Inpatient	ED	Obs. Stay	
Baystate Medical Center	120,709	25.8%	30.6%	62.3%	7.1%	-0.2%
Mercy Medical Center - Springfield Campus	77,359	16.6%	14.2%	81.4%	4.4%	0.3%
Berkshire Medical Center - Berkshire Campus	56,088	12.0%	22.5%	74.1%	3.4%	-0.1%
Holyoke Medical Center	44,111	9.4%	13.3%	82.0%	4.7%	-4.0%
Cooley Dickinson Hospital	35,428	7.6%	22.0%	72.5%	5.4%	-0.5%
ALL OTHERS	133,629	28.6%	17.6%	78.8%	3.7%	-1.2%
TOTAL	467,324	100.0%	20.9%	74.2%	4.9%	-0.8%

Note: Numbers may not add to 100% due to rounding

*Regional discharge counts are based on patients' zip code not hospital zip code and may include hospitals outside the region.

Top 5 MS-DRGs

For Inpatient Discharges for Regional Residents, FY2013

MS-DRG (DRG Code)	2013 Regional Discharges	% of Regional Discharges	MA % Discharges
Psychoses (885)	5,597	5.7%	3.9%
Normal newborn (795)	5,206	5.3%	5.9%
Vaginal delivery w/o complicating diagnoses (775)	4,506	4.6%	5.0%
Major joint replacement or reattachment of lower extremity w/o MCC (470)	2,847	2.9%	3.0%
Alcohol/drug abuse or dependence w rehabilitation therapy (895)	2,315	2.4%	0.4%

Note: Providence Behavioral Health Hospital operates under Mercy Medical Center's hospital license.