**CENTER FOR HEALTH
INFORMATION AND ANALYSIS**

ACUTE HOSPITAL UTILIZATION TRENDS IN MASSACHUSETTS FY2009-FY2013

MASSACHUSETTS RESIDENTS

**TECHNICAL APPENDIX**



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# Introduction

This Technical Appendix provides an overview of the data sources and analysis methods that were used by the Center for Health Information and Analysis (CHIA) to publish and report on the statewide and regional inpatient, emergency department and observation stay utilization statistics and trends for Massachusetts residents who were discharged from Massachusetts acute care hospitals for the period beginning in Hospital Fiscal Year (FY) 2009 through 2013[[1]](#footnote-1).

# Data Sources

## Acute Hospital Case Mix Databases

The Acute Hospital Case Mix Databases, which are comprised of the Hospital Inpatient Discharge Database (HDD), the Outpatient Hospital Emergency Department Database (ED), and the Outpatient Hospital Observation Discharge Database (OOA), serve as the basis for this analysis. Case mix data are submitted to CHIA quarterly by Massachusetts acute care hospitals pursuant to 957 CMR 8.00, and contain patient-level data identifying charges, days, socio-demographic and diagnostic information for inpatient, emergency department and observation stay discharges. An **acute hospital** is a hospital that is licensed by the Massachusetts Department of Public Health, which contains a majority of medical-surgical, pediatric, obstetric, and maternity beds.

It is important to note that Case Mix data are not paid claims data, and therefore these data files are not a data source for service paid amounts. In addition, discharge data is submitted by hospitals prior to payment by a public payer or private insurer. The primary payer information is reported by the hospital at the time of patient discharge and may change upon payment by the insurer or payer. Case Mix data does include charge data which is the full, undiscounted total and service-specific charges billed by the hospital to the general public. Issues to consider with the charge data: A few hospitals do not have the capacity to add late occurring charges to their electronic submission within the present time frames for submitting data. In some hospitals, “days billed” or “accommodation charges” may not equal the length of the patient’s stay in the hospital. One should note that charges are a reflection of the hospital’s pricing strategy and may not be indicative of the cost of patient care delivery.

### Hospital Inpatient Discharge Data (HDD)

A hospital inpatient discharge is reported when a patient has been discharged from the hospital. This data includes, but is not limited to, information about patient demographics, physicians, diagnoses, E-codes, procedures, admission type and source, patient status disposition, payment type and source, accommodation revenue center charges and days, and ancillary revenue center charges. If the patient is admitted after an emergency department visit or outpatient observation stay, the record should be reported as an inpatient discharge with the appropriate emergency department and observation identifiers. Upon admission, observation services should be reported as inpatient observation services and included with the inpatient discharge record. <http://www.chiamass.gov/inpatient-discharge-data-documentation-manuals/>

CHIA used the following Hospital Inpatient Discharge (HDD) Data Files in this analysis:

* HDD FY2009 – Inpatient Discharges from October 1, 2008 through September 30, 2009
* HDD FY2010 – Inpatient Discharges from October 1, 2009 through September 30, 2010
* HDD FY2011 – Inpatient Discharges from October 1, 2010 through September 30, 2011
* HDD FY2012 – Inpatient Discharges from October 1, 2011 through September 30, 2012
* HDD FY2013 – Inpatient Discharges from October 1, 2012 through September 30, 2013

### Outpatient Emergency Department Discharge (ED) Data

An emergency department discharge is reported for all emergency department visits, including Satellite Emergency Facility visits, by a patient whose visits result in neither an outpatient observation stay nor an inpatient admission at the reporting facility. This data includes, but is not limited to, information about patient demographics, physicians, diagnoses, services, visit source and disposition, payment source, charges, mode of transport, and E-codes. <http://www.chiamass.gov/emergency-department-data-documentation-manuals/>

CHIA used the following Outpatient Emergency Department (ED) Data Files in this analysis:

* ED FY2009 – ED Discharges from October 1, 2008 through September 30, 2009
* ED FY2010 – ED Discharges from October 1, 2009 through September 30, 2010
* ED FY2011 – ED Discharges from October 1, 2010 through September 30, 2011
* ED FY2012 – ED Discharges from October 1, 2011 through September 30, 2012
* ED FY2013 – ED Discharges from October 1, 2012 through September 30, 2013

### Outpatient Hospital Observation Discharge (OOA) Data

An outpatient observation stay is reported for each patient that receives observation services and is not admitted. Observation services are those furnished on a hospital’s premises which are reasonable and necessary to further evaluate the patient’s condition and provide treatment to determine the need for possible admission to the hospital. These services include the use of a bed and periodic monitoring by a hospital’s physician, nursing, and other staff. The outpatient observation data includes, but is not limited to, information about patient demographics, physicians, diagnoses, procedures, observation type and source, patient’s departure status, payment source and charges. If the patient received observation services but is not admitted following an emergency department visit, the visit should be reported as an outpatient observation stay with an appropriate emergency department identifier. <http://www.chiamass.gov/outpatient-observation-data-documentation-manuals/>

CHIA used the following Outpatient Hospital Observation Discharge Files in this analysis:

* OOA FY2009 – Observation Discharges from October 1, 2008 through September 30, 2009
* OOA FY2010 – Observation Discharges from October 1, 2009 through September 30, 2010
* OOA FY2011 – Observation Discharges from October 1, 2010 through September 30, 2011
* OOA FY2012 – Observation Discharges from October 1, 2011 through September 30, 2012
* OOA FY2013 – Observation Discharges from October 1, 2012 through September 30, 2013

### Case Mix Data Base Verification Process

A standard Verification Report Response Form is issued by CHIA each year and is used by each hospital to verify the accuracy of their data as it appears on their Final Case mix Verification Report. If a hospital finds data discrepancies, CHIA requests that the hospital submit written corrections that provide an accurate profile of that hospital’s discharges. For the utilization report, CHIA sent an additional notification report to each acute care hospital with specific data elements for review.

Please note: Hospital sites only submit discharge data to CHIA where appropriate.  For example, a hospital site that does not have an emergency department would not report emergency department discharges, and therefore would not be included in the emergency department database.

### American Community Survey Data

The American Community Survey (ACS) is an ongoing, annual statistical survey conducted by the U.S. Department of Commerce Bureau of the Census.  Each year, the ACS is sent to a random sample of U.S. households to collect information on population, social, housing, and economic characteristics.  ACS data are released in 1-year, 3-year, and 5-year datasets to varying levels of geographic detail:  1-year estimates are reported for areas with populations greater than 65,000; 3-year estimates, for areas with populations greater than 20,000; and 5-year estimates, for all available geographies.

CHIA used 2009-2013 ACS 5-Year Estimates data in this report.  ACS data were aggregated from the zip code level to HPC Region of analysis for the following fields:  population, age, race and ethnicity, mean household income, and poverty level.

For more information about the American Community Survey, please visit:  [http://www.census.gov/acs/www/#](http://www.census.gov/acs/www/).

# Inclusion Criteria for this Analysis

For the purposes of this analysis, CHIA included inpatient, emergency department and observation stays discharges for Massachusetts residents identified by a “Permanent Patient Zip Code” in Massachusetts or where “Permanent Patient State” was MA, with discharge dates from October 1, 2008 through September 30, 2013.

# Data Categorization and Grouping

## Centers for Medicare and Medicaid Services (CMS) grouper, Diagnosis Related Groups (MS-DRGs)

CHIA utilizes the Centers for Medicare and Medicaid Services grouper (MS-DRG), as well as other groupers to classify all inpatient discharges when it releases its annual HDD databases. For the purposes of this analysis, CHIA utilized the discharge MS-DRGs in order to create inpatient service categories based largely on the Healthcare Effectiveness Data and Information Set (HEDIS) inpatient utilization reporting specifications which involve MS-DRGs. While MS-DRGs are specific to the Medicare population, these performance measures are widely used among health plans.

CHIA used the MS-DRGs grouper versions in this analysis:

* HDD FY2009 – Inpatient Discharges from October 1, 2008 through September 30, 2009 (MS-DRG version 26)
* HDD FY2010 – Inpatient Discharges from October 1, 2009 through September 30, 2010 (MS-DRG version 27)
* HDD FY2011 – Inpatient Discharges from October 1, 2010 through September 30, 2011 (MS-DRG version 28)
* HDD FY2012 – Inpatient Discharges from October 1, 2011 through September 30, 2012 (MS-DRG version 29)
* HDD FY2013 – Inpatient Discharges from October 1, 2012 through September 30, 2013 (MS-DRG version 30)

## Inpatient Service Categories

CHIA created Inpatient Service Categories by grouping each discharge MS-DRG into six broad categories including Maternity, Medical, Mental Health, Newborn, Other Inpatient (e.g., bone marrow transplants), Substance Abuse and Surgical service categories using the HEDIS 2013 specifications as the basis for inpatient utilization measures. Please see the Appendix D and (http://store.ncqa.org/index.php/performance-measurement.html) for more information.

## CCS (Clinical Classifications Software) Code

The Agency for Healthcare Research and Quality (AHRQ) created a tool, the Clinical Classifications Software (CCS) for grouping patient diagnoses and procedures to clinically meaningful categories. CHIA used AHRQ’s single-level CCS diagnosis methodology for ICD-9-CM primary diagnosis codes for emergency department discharges. The single-level diagnosis CCS aggregates illnesses and conditions into 285 mutually exclusive categories. For more information about the CCS codes, please visit: <https://www.hcup-us.ahrq.gov/toolssoftware/ccs/ccsfactsheet.jsp>.

## Principal Diagnosis Code (Reported by the first 3 digits)

The Principal ICD-9-CM diagnosis code corresponds to the condition determined to be chiefly responsible for the admission of each patient for hospital care. CHIA truncated each principal diagnosis code to the first three digits and reported in terms of number of emergency and observation stay discharges.

## Massachusetts Regions

The Health Policy Commission (HPC) and CHIA combined hospital service areas (HSAs) into eight standard regional categories. The regional mapping is provided in Appendix B.

In order to perform regional analyses, CHIA accessed zip code information for the home address of each patient discharged from a Massachusetts acute hospital. These discharges were assigned an HPC region for analysis.

## Payer Type

Primary payer source codes were grouped into broader payer type categories for this analysis. The primary payer source codes were reported by the hospital at the time of patient discharge and may change upon payment by the insurer or payer. (See Appendix C)

* Medicare: Fee-for-service, supplemental products and managed care Medicare, Senior Care Options (SCO) and Program of All-Inclusive Care for the Elderly (PACE)
* Medicaid: Fee-for-service and managed care Medicaid
* Commercial: Private Insurance carriers excluding their Medicaid and Medicare lines of business
* CommCare: A Massachusetts Health Connector program that offers subsidized insurance to Massachusetts residents  who have annual incomes of up to 300% of the Federal Poverty Level
* Other Payers: Automobile Insurance, Worker’s Compensation, Health Safety Net, Self-Pay, Free-Care and Charity

**Primary Payer Source Code Data Issue and Adjustment Methodology**

There was a data anomaly in the number of discharges by payer source code in the FY2013 ED database for Cape Cod Hospital and Falmouth Hospital. In FY2012, 17,464 ED discharges and 8,634 ED discharges for Cape Cod Hospital and Falmouth Hospital, respectively, were attributed to Medicare for Massachusetts residents, but in FY2013 there were virtually no Medicare ED discharges for these two hospitals in the ED database. Further analysis showed that these hospitals had attributed the majority of the ED visits to one single Commercial payer source code during this same time period.  This data issue was significant enough to result in an overall decrease in Medicare ED statewide discharges from FY2012 to FY2013, as well as a reduced decrease in Commercial ED discharges.

Manual adjustments were made to the Statewide Discharge Trends by Payer Type graphic on page 6 of the statewide report to account for the over reporting of 2013 Commercial ED discharges and the under reporting of 2013 Medicare ED discharges by Cape Cod Hospital and Falmouth Hospital by applying the FY2012 payer type category distributions for these two hospitals to their FY2013 total reported ED discharges. These adjustments provided an estimate for the number of ED discharges by payer type in FY2013 assuming that these hospitals had a similar payer mix as they did in FY2012 to estimate a more realistic statewide trend by payer type from FY2012 to FY2013.

## Demographic Categories

**ACS 5-Year Data**

**Poverty Level**

The ACS provides the total population below the poverty level for whom poverty status is determined with a corresponding total population for whom poverty status is determined for each zip code. The percentage of people below the poverty level statewide and by region was determined by dividing the total population below the poverty level for whom poverty status is determined by the total population for whom poverty status is determined, multiplied by 100. Please note: This year’s methodology varies slightly from the previous report, Acute Care Hospital Utilization Trends in Massachusetts FY2009-2012. Poverty Level was previously determined by dividing the total population below the poverty level for whom poverty status is determined by the total population, multiplied by 100.

**Race and Ethnicity**

Race and ethnicity demographics were compiled from the ACS 5-year estimates. In this year’s report, race and ethnicity were combined into the following categories:

* Hispanic
* Non-Hispanic
	+ Asian
	+ Black/African American
	+ Other Race[[2]](#footnote-2)
	+ Two or More Races
	+ White

Please note: This year’s methodology varies slightly from the previous report. In the previous report, race and ethnicity were reported separately in the following categories:

* Race
	+ Asian
	+ Black/African American
	+ Other Race
	+ Two or More Races
	+ White
* Ethnicity
	+ Hispanic or Latino

**Discharge Data**

**Patient Age:** The age of a patient at discharge. CHIA aggregated discharges based on patient age into the following age groups: 0-18, 19-64, 65+.

# Calculations:

## Change in volume of inpatient, emergency department and observation stay discharges

Please note: Trends in total discharges by payer type may be the result of changes in the number of members enrolled in each payer type category.

* **Data Source:** FY2009-FY2013 HDD, ED, OOA data
* **Calculation:** Calculation of the percentage change in the number of inpatient, emergency department and observation stay discharges



## Average Charge represents the average amount a hospital bills for a case

Please note: Charges were rounded to the nearest dollar amount.

* **Data Source:** FY2013 HDD, ED, OOA data
* **Calculation** of the average charge for an ICD-9 diagnosis code or MS-DRG for a given population



## Average Length of Stay (ALOS) measures the average duration of an inpatient admission

* **Data Source:** FY2013 HDD
* **Calculation** of the average length of stay for a given population



## Discharge Rates per 1,000 were not calculated in this Analysis

Acute Hospital Case mix Data only capture discharges from Massachusetts hospitals, meaning that services obtained by Massachusetts residents from hospitals outside the Commonwealth are not included. As a result, CHIA did not calculate utilization rates such as discharges and days per 1,000 persons because such rates would under-report utilization by the Massachusetts population.

# Appendix A: Acute Hospital Discharge Database Numbers

|  |
| --- |
| **Hospital Inpatient Discharge Database (HDD)** |
| **Regions**  | **2009** | **2010** | **2011** | **2012** | **2013** |
| CAPE & ISLANDS | 33,547 | 32,059 | 32,515 | 31,949 | 31,381 |
| CENTRAL MA | 85,864 | 83,913 | 86,808 | 83,461 | 80,439 |
| METRO BOSTON | 181,596 | 183,427 | 181,405 | 173,089 | 164,585 |
| METRO SOUTH | 115,041 | 113,009 | 111,029 | 108,567 | 104,114 |
| METRO WEST | 67,438 | 69,498 | 70,521 | 67,442 | 64,304 |
| NORTHEAST MA | 167,434 | 171,025 | 170,703 | 167,720 | 164,665 |
| SOUTHCOAST | 46,908 | 49,770 | 53,737 | 50,140 | 48,407 |
| WESTERN MA | 101,816 | 100,027 | 96,994 | 97,783 | 97,671 |
| UNKNOWN | 6,417 | 1,838 | 1,690 | 1,503 | 2,564 |
| ***MA RESIDENTS*** | ***806,061*** | ***804,566*** | ***805,402*** | ***781,654*** | ***758,130*** |
| ***NON MA RESIDENTS*** | ***47,386*** | ***46,588*** | ***47,805*** | ***48,214*** | ***48,009*** |
| ***TOTAL DISCHARGES*** | ***853,447*** | ***851,154*** | ***853,207*** | ***829,868*** | ***806,139*** |

|  |
| --- |
| **Outpatient Emergency Department Database (ED)** |
| **Regions** | **2009** | **2010** | **2011** | **2012** | **2013** |
| CAPE & ISLANDS |  115,579  |  120,616  |  119,285  |  122,344  |  117,294  |
| CENTRAL MA |  263,714  |  263,209  |  263,679  |  269,184  |  268,676  |
| METRO BOSTON |  525,974  |  525,936  |  532,456  |  542,454  |  533,695  |
| METRO SOUTH |  298,172  |  296,284  |  291,132  |  298,571  |  299,156  |
| METRO WEST |  199,216  |  194,325  |  197,085  |  198,804  |  192,705  |
| NORTHEAST MA |  432,231  |  464,456  |  456,572  |  463,904  |  462,712  |
| SOUTHCOAST |  167,873  |  168,691  |  166,865  |  171,909  |  176,281  |
| WESTERN MA |  357,847  |  355,933  |  350,356  |  349,575  |  346,816  |
| UNKNOWN |  46,125  |  7,447  |  6,737  |  6,331  | 10,440 |
| ***MA RESIDENTS*** |  ***2,406,731***  |  ***2,396,897***  |  ***2,384,167***  |  ***2,423,076***  | ***2,407,775*** |
| ***NON MA RESIDENTS*** |  ***113,902***  |  ***112,791***  |  ***114,819***  |  ***115,707***  | ***114,095*** |
| ***TOTAL DISCHARGES*** |  ***2,520,633***  |  ***2,509,688***  |  ***2,498,986***  |  ***2,538,783***  | ***2,521,870*** |

|  |
| --- |
| **Outpatient Hospital Observation Discharge Database (OOA)** |
| **Regions**  | **2009** | **2010** | **2011** | **2012** | **2013** |
| CAPE & ISLANDS |  3,103  |  3,682  |  3,840  |  4,849  |  5,867  |
| CENTRAL MA |  24,877  |  25,280  |  24,970  |  24,626  |  23,892  |
| METRO BOSTON |  34,443  |  36,219  |  38,160  |  44,295  |  44,582  |
| METRO SOUTH |  16,474  |  17,104  |  18,370  |  21,765  |  24,939  |
| METRO WEST |  15,113  |  15,500  |  15,454  |  16,461  |  18,088  |
| NORTHEAST MA |  29,372  |  30,048  |  29,610  |  35,293  |  36,666  |
| SOUTHCOAST |  7,390  |  7,333  |  6,838  |  9,431  |  11,377  |
| WESTERN MA |  18,989  |  21,594  |  23,417  |  23,634  |  22,837  |
| UNKNOWN |  443  |  389  |  396  |  368  | 385 |
| ***MA RESIDENTS*** |  ***150,204***  |  ***157,149***  |  ***161,055***  |  ***180,722***  | ***188,633*** |
| ***NON MA RESIDENTS*** |  ***7,995***  |  ***9,023***  |  ***9,200***  |  ***10,725***  | ***11,729*** |
| **TOTAL DISCHARGES** |  **158,199**  |  **166,172**  |  **170,255**  |  **191,447**  | **200,362** |

# Appendix B: HPC Regions by Zip Code

|  |  |  |
| --- | --- | --- |
| HPC Region Name | HPC Region | Zip Code |
| Cape and Islands | Region 8 | 02532 |
| Cape and Islands | Region 8 | 02534 |
| Cape and Islands | Region 8 | 02536 |
| Cape and Islands | Region 8 | 02537 |
| Cape and Islands | Region 8 | 02540 |
| Cape and Islands | Region 8 | 02541 |
| Cape and Islands | Region 8 | 02542 |
| Cape and Islands | Region 8 | 02553 |
| Cape and Islands | Region 8 | 02556 |
| Cape and Islands | Region 8 | 02559 |
| Cape and Islands | Region 8 | 02561 |
| Cape and Islands | Region 8 | 02562 |
| Cape and Islands | Region 8 | 02563 |
| Cape and Islands | Region 8 | 02565 |
| Cape and Islands | Region 8 | 02574 |
| Cape and Islands | Region 8 | 02644 |
| Cape and Islands | Region 8 | 02649 |
| Cape and Islands | Region 8 | 02601 |
| Cape and Islands | Region 8 | 02630 |
| Cape and Islands | Region 8 | 02631 |
| Cape and Islands | Region 8 | 02632 |
| Cape and Islands | Region 8 | 02633 |
| Cape and Islands | Region 8 | 02634 |
| Cape and Islands | Region 8 | 02635 |
| Cape and Islands | Region 8 | 02637 |
| Cape and Islands | Region 8 | 02638 |
| Cape and Islands | Region 8 | 02639 |
| Cape and Islands | Region 8 | 02641 |
| Cape and Islands | Region 8 | 02642 |
| Cape and Islands | Region 8 | 02643 |
| Cape and Islands | Region 8 | 02645 |
| Cape and Islands | Region 8 | 02646 |
| Cape and Islands | Region 8 | 02647 |
| Cape and Islands | Region 8 | 02648 |
| Cape and Islands | Region 8 | 02650 |
| Cape and Islands | Region 8 | 02651 |
| Cape and Islands | Region 8 | 02652 |
| Cape and Islands | Region 8 | 02653 |
| Cape and Islands | Region 8 | 02655 |
| Cape and Islands | Region 8 | 02657 |
| Cape and Islands | Region 8 | 02659 |
| Cape and Islands | Region 8 | 02660 |
| Cape and Islands | Region 8 | 02661 |
| Cape and Islands | Region 8 | 02662 |
| Cape and Islands | Region 8 | 02663 |
| Cape and Islands | Region 8 | 02664 |
| Cape and Islands | Region 8 | 02666 |
| Cape and Islands | Region 8 | 02667 |
| Cape and Islands | Region 8 | 02668 |
| Cape and Islands | Region 8 | 02669 |
| Cape and Islands | Region 8 | 02670 |
| Cape and Islands | Region 8 | 02671 |
| Cape and Islands | Region 8 | 02672 |
| Cape and Islands | Region 8 | 02673 |
| Cape and Islands | Region 8 | 02675 |
| Cape and Islands | Region 8 | 02554 |
| Cape and Islands | Region 8 | 02564 |
| Cape and Islands | Region 8 | 02584 |
| Cape and Islands | Region 8 | 02535 |
| Cape and Islands | Region 8 | 02539 |
| Cape and Islands | Region 8 | 02552 |
| Cape and Islands | Region 8 | 02557 |
| Cape and Islands | Region 8 | 02568 |
| Cape and Islands | Region 8 | 02573 |
| Cape and Islands | Region 8 | 02575 |
| Central MA | Region 2 | 01331 |
| Central MA | Region 2 | 01355 |
| Central MA | Region 2 | 01364 |
| Central MA | Region 2 | 01366 |
| Central MA | Region 2 | 01368 |
| Central MA | Region 2 | 01378 |
| Central MA | Region 2 | 01510 |
| Central MA | Region 2 | 01523 |
| Central MA | Region 2 | 01561 |
| Central MA | Region 2 | 01420 |
| Central MA | Region 2 | 01431 |
| Central MA | Region 2 | 01462 |
| Central MA | Region 2 | 01474 |
| Central MA | Region 2 | 01430 |
| Central MA | Region 2 | 01436 |
| Central MA | Region 2 | 01438 |
| Central MA | Region 2 | 01440 |
| Central MA | Region 2 | 01441 |
| Central MA | Region 2 | 01452 |
| Central MA | Region 2 | 01468 |
| Central MA | Region 2 | 01473 |
| Central MA | Region 2 | 01475 |
| Central MA | Region 2 | 01477 |
| Central MA | Region 2 | 01453 |
| Central MA | Region 2 | 01010 |
| Central MA | Region 2 | 01081 |
| Central MA | Region 2 | 01507 |
| Central MA | Region 2 | 01508 |
| Central MA | Region 2 | 01509 |
| Central MA | Region 2 | 01518 |
| Central MA | Region 2 | 01521 |
| Central MA | Region 2 | 01550 |
| Central MA | Region 2 | 01566 |
| Central MA | Region 2 | 01570 |
| Central MA | Region 2 | 01571 |
| Central MA | Region 2 | 01005 |
| Central MA | Region 2 | 01068 |
| Central MA | Region 2 | 01074 |
| Central MA | Region 2 | 01501 |
| Central MA | Region 2 | 01503 |
| Central MA | Region 2 | 01505 |
| Central MA | Region 2 | 01506 |
| Central MA | Region 2 | 01515 |
| Central MA | Region 2 | 01516 |
| Central MA | Region 2 | 01517 |
| Central MA | Region 2 | 01519 |
| Central MA | Region 2 | 01520 |
| Central MA | Region 2 | 01522 |
| Central MA | Region 2 | 01524 |
| Central MA | Region 2 | 01525 |
| Central MA | Region 2 | 01526 |
| Central MA | Region 2 | 01527 |
| Central MA | Region 2 | 01531 |
| Central MA | Region 2 | 01532 |
| Central MA | Region 2 | 01534 |
| Central MA | Region 2 | 01535 |
| Central MA | Region 2 | 01536 |
| Central MA | Region 2 | 01537 |
| Central MA | Region 2 | 01538 |
| Central MA | Region 2 | 01540 |
| Central MA | Region 2 | 01541 |
| Central MA | Region 2 | 01542 |
| Central MA | Region 2 | 01543 |
| Central MA | Region 2 | 01545 |
| Central MA | Region 2 | 01546 |
| Central MA | Region 2 | 01560 |
| Central MA | Region 2 | 01562 |
| Central MA | Region 2 | 01564 |
| Central MA | Region 2 | 01568 |
| Central MA | Region 2 | 01569 |
| Central MA | Region 2 | 01580 |
| Central MA | Region 2 | 01581 |
| Central MA | Region 2 | 01582 |
| Central MA | Region 2 | 01583 |
| Central MA | Region 2 | 01586 |
| Central MA | Region 2 | 01588 |
| Central MA | Region 2 | 01590 |
| Central MA | Region 2 | 01601 |
| Central MA | Region 2 | 01602 |
| Central MA | Region 2 | 01603 |
| Central MA | Region 2 | 01604 |
| Central MA | Region 2 | 01605 |
| Central MA | Region 2 | 01606 |
| Central MA | Region 2 | 01607 |
| Central MA | Region 2 | 01608 |
| Central MA | Region 2 | 01609 |
| Central MA | Region 2 | 01610 |
| Central MA | Region 2 | 01611 |
| Central MA | Region 2 | 01612 |
| Central MA | Region 2 | 01613 |
| Central MA | Region 2 | 01614 |
| Central MA | Region 2 | 01615 |
| Central MA | Region 2 | 01653 |
| Central MA | Region 2 | 01654 |
| Central MA | Region 2 | 01655 |
| Central MA | Region 2 | 01747 |
| Central MA | Region 2 | 01756 |
| Metro Boston | Region 5 | 02026 |
| Metro Boston | Region 5 | 02027 |
| Metro Boston | Region 5 | 02101 |
| Metro Boston | Region 5 | 02102 |
| Metro Boston | Region 5 | 02103 |
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| Western MA | Region 1 | 01585 |
| Western MA | Region 1 | 01008 |
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| Western MA | Region 1 | 01077 |
| Western MA | Region 1 | 01085 |
| Western MA | Region 1 | 01086 |
| Western MA | Region 1 | 01097 |

# Appendix C: Payer Type

The payer type is derived using the primary payer information reported by the hospital at the time of patient discharge and may change upon payment by the insurer or payer.

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| --- | --- | --- | --- | --- |
| Payer Type | Payer Category | Payer Source Code | Description | Payer Type Description |
| CommCare | CommCare | 300 | CommCare: BMC HealthNet Plan/Commonwealth Care – General Classification | Commonwealth Care Plans |
| CommCare | CommCare | 301 | CommCare: BMC HealthNet Plan/Commonwealth Care – Plan Type I | Commonwealth Care Plans |
| CommCare | CommCare | 302 | CommCare: BMC HealthNet Plan/Commonwealth Care – Plan Type II | Commonwealth Care Plans |
| CommCare | CommCare | 303 | CommCare: BMC HealthNet Plan/Commonwealth Care – Plan Type III | Commonwealth Care Plans |
| CommCare | CommCare | 304 | CommCare: BMC HealthNet Plan/Commonwealth Care – Plan Type IV | Commonwealth Care Plans |
| CommCare | CommCare | 400 | CommCare: Cambridge Network Health Forward – General Classification | Commonwealth Care Plans |
| CommCare | CommCare | 401 | CommCare: Cambridge Network Health Forward – Plan Type I | Commonwealth Care Plans |
| CommCare | CommCare | 402 | CommCare: Cambridge Network Health Forward – Plan Type II | Commonwealth Care Plans |
| CommCare | CommCare | 403 | CommCare: Cambridge Network Health Forward – Plan Type III | Commonwealth Care Plans |
| CommCare | CommCare | 404 | CommCare: Cambridge Network Health Forward – Plan Type IV | Commonwealth Care Plans |
| CommCare | CommCare | 500 | CommCare: Fallon Community Health Care: Commonwealth Care FCHP Direct Care – General Classification | Commonwealth Care Plans |
| CommCare | CommCare | 501 | CommCare: Fallon Community Health Care: Commonwealth Care FCHP Direct Care – Plan 1 (Group No. 4445077) | Commonwealth Care Plans |
| CommCare | CommCare | 502 | CommCare: Fallon Community Health Care: Commonwealth Care FCHP Direct Care – Plan 2 (Group No. 4455220) | Commonwealth Care Plans |
| CommCare | CommCare | 503 | CommCare: Fallon Community Health Care: Commonwealth Care FCHP Direct Care – Plan 3 (Group No. 4455221) | Commonwealth Care Plans |
| CommCare | CommCare | 504 | CommCare: Fallon Community Health Care: Commonwealth Care FCHP Direct Care – Plan 4 (Group No. 4455222) | Commonwealth Care Plans |
| CommCare | CommCare | 601 | CommCare: Neighborhood Health Plan – NHP Commonwealth Care Plan – Plan Type I (9CC1) | Commonwealth Care Plans |
| CommCare | CommCare | 602 | CommCare: Neighborhood Health Plan – NHP Commonwealth Care Plan – Plan Type II (9CC2) | Commonwealth Care Plans |
| CommCare | CommCare | 603 | CommCare: Neighborhood Health Plan – NHP Commonwealth Care Plan – Plan Type III (9CC3) | Commonwealth Care Plans |
| CommCare | CommCare | 604 | CommCare: Neighborhood Health Plan – NHP Commonwealth Care Plan – Plan Type IV (9CC4) | Commonwealth Care Plans |
| CommCare | CommCare | 600 | CommCare: Neighborhood Health Plan– General Classification | Commonwealth Care Plans |
| CommCare | CommCare | 701 | CommCare: Celticare Health Plan of Massachusetts / Commonwealth Care - Plan 1 | Commonwealth Care Plans |
| CommCare | CommCare | 702 | CommCare: Celticare Health Plan of Massachusetts / Commonwealth Care - Plan 2 | Commonwealth Care Plans |
| CommCare | CommCare | 703 | CommCare: Celticare Health Plan of Massachusetts / Commonwealth Care - Plan 3 | Commonwealth Care Plans |
| CommCare | CommCare | 704 | CommCare: Celticare Health Plan of Massachusetts / Commonwealth Care Bridge Program | Commonwealth Care Plans |
| CommCare | CommCare | 700 | CommCare: Celticare Health Plan of Massachusetts / Commonwealth Care General Classification | Commonwealth Care Plans |
| CommCare | CommCare | 815 | DentaQuest Commonwealth Care | Commonwealth Care Plans |
| Commercial | Commercial | 71 | ADMAR | PPO and Other Managed Care Plans Not Elsewhere Classified |
| Commercial | Commercial | 829 | Adventist Risk Management INC | Commercial Insurance |
| Commercial | Commercial | 800 | Aetna Dental | Commercial Managed Care |
| Commercial | Commercial | 174 | Aetna Health Inc. - Quality POS | HMO |
| Commercial | Commercial | 175 | Aetna Health, Inc. - HMO | HMO |
| Commercial | Commercial | 51 | Aetna Life Insurance | Commercial Insurance |
| Commercial | Commercial | 161 | Aetna Managed Choice POS | Commercial Managed Care |
| Commercial | Commercial | 22 | Aetna Open Choice PPO | Commercial Managed Care |
| Commercial | Commercial | 801 | Aflac | Commercial Insurance |
| Commercial | Commercial | 828 | Alicare | Commercial Insurance |
| Commercial | Commercial | 802 | AllState | Commercial Insurance |
| Commercial | Commercial | 803 | Altus Dental | Commercial Managed Care |
| Commercial | Commercial | 804 | Ameritas Life Insurance Corp | Commercial Insurance |
| Commercial | Commercial | 805 | Anthem Blue Cross Blue Shield | Blue Cross Managed Care |
| Commercial | Commercial | 806 | Assurant | PPO and Other Managed Care Plans Not Elsewhere Classified |
| Commercial | Commercial | 138 | Banker's Life and Casualty Insurance | Commercial Insurance |
| Commercial | Commercial | 139 | Bankers Multiple Line | Commercial Insurance |
| Commercial | Commercial | 2 | Bay State - a product of HMO Blue | Blue Cross Managed Care |
| Commercial | Commercial | 154 | BCBS Other (Not listed elsewhere) | Blue Cross |
| Commercial | Commercial | 11 | Blue Care Elect | Blue Cross Managed Care |
| Commercial | Commercial | 46 | Blue CHiP (BCBS Rhode Island) | HMO |
| Commercial | Commercial | 160 | Blue Choice (includes Healthflex Blue) - POS | Blue Cross Managed Care |
| Commercial | Commercial | 807 | Blue Cross Blue Shield of MA | Blue Cross Managed Care |
| Commercial | Commercial | 808 | Blue Cross Blue Shield of RI | Blue Cross Managed Care |
| Commercial | Commercial | 830 | Blue Cross Blue Shield of Texas | Blue Cross Managed Care |
| Commercial | Commercial | 142 | Blue Cross Indemnity | Blue Cross |
| Commercial | Commercial | 155 | Blue Cross Managed Care Other | Blue Cross Managed Care |
| Commercial | Commercial | 50 | Blue Health Plan for Kids | Blue Cross |
| Commercial | Commercial | 52 | Boston Mutual Insurance | Commercial Insurance |
| Commercial | Commercial | 831 | Brokers National Life insurance | Commercial Insurance |
| Commercial | Commercial | 176 | Carelink (CIGNA & Tufts) | Commercial Insurance |
| Commercial | Commercial | 832 | Cba Blue Dental | Blue Cross Managed Care |
| Commercial | Commercial | 259 | CeltiCare Health Plan of Massachusetts | Commercial Insurance |
| Commercial | Commercial | 177 | Chesapeake Life Insurance Company | Commercial Insurance |
| Commercial | Commercial | 833 | Chesterfield Resources | Commercial Insurance |
| Commercial | Commercial | 204 | Christian Brothers Employee | Commercial Insurance |
| Commercial | Commercial | 30 | CIGNA (Indemnity) | Commercial Insurance |
| Commercial | Commercial | 810 | Cigna Dental | PPO and Other Managed Care Plans Not Elsewhere Classified |
| Commercial | Commercial | 250 | CIGNA HMO | Commercial Managed Care |
| Commercial | Commercial | 171 | CIGNA POS | Commercial Managed Care |
| Commercial | Commercial | 87 | CIGNA PPO | Commercial Managed Care |
| Commercial | Commercial | 140 | Combined Insurance Company of America | Commercial Insurance |
| Commercial | Commercial | 21 | Commonwealth PPO | PPO and Other Managed Care Plans Not Elsewhere Classified |
| Commercial | Commercial | 44 | Community Health Plan | HMO |
| Commercial | Commercial | 13 | Community Health Plan Options (New York) | Point-of-Service Plan |
| Commercial | Commercial | 834 | Companion Life insurance | Commercial Insurance |
| Commercial | Commercial | 42 | ConnectiCare Of Massachusetts | HMO |
| Commercial | Commercial | 185 | Connecticut General Life - Indemnity | Commercial Insurance |
| Commercial | Commercial | 186 | Connecticut General Life - POS | POS |
| Commercial | Commercial | 187 | Connecticut General Life - PPO | PPO |
| Commercial | Commercial | 54 | Continental Assurance Insurance | Commercial Insurance |
| Commercial | Commercial | 69 | Corporate Health Insurance Liberty Plan | Commercial Insurance |
| Commercial | Commercial | 811 | Creative Plan Dental Administrators | PPO and Other Managed Care Plans Not Elsewhere Classified |
| Commercial | Commercial | 813 | Delta Dental - Other | Commercial Managed Care |
| Commercial | Commercial | 812 | Delta Dental of MA | Commercial Managed Care |
| Commercial | Commercial | 814 | Delta Dental of New York | Commercial Managed Care |
| Commercial | Commercial | 835 | Dental Health Alliance | Commercial Insurance |
| Commercial | Commercial | 851 | Dentemax Insurance | Commercial Insurance |
| Commercial | Commercial | 836 | EBS Benefit Solutions | Commercial Insurance |
| Commercial | Commercial | 837 | Empire Blue Cross | Blue Cross Managed Care |
| Commercial | Commercial | 818 | EverCare Dental | PPO and Other Managed Care Plans Not Elsewhere Classified |
| Commercial | Commercial | 838 | Excellus Blue cross | Blue Cross Managed Care |
| Commercial | Commercial | 4 | Fallon Community Health Plan | HMO |
| Commercial | Commercial | 188 | Fallon Flex POS | POS |
| Commercial | Commercial | 819 | Fallon Health Plan | Commercial Insurance |
| Commercial | Commercial | 189 | Fallon Major Medical - Indemnity | Commercial Insurance |
| Commercial | Commercial | 167 | Fallon POS | Point-of-Service Plan |
| Commercial | Commercial | 190 | Fallon Preferred Care - PPO | Commercial Managed Care |
| Commercial | Commercial | 67 | First Allmerica Financial Life Insurance | Commercial Insurance |
| Commercial | Commercial | 181 | First Allmerica Financial Life Insurance EPO | Commercial Managed Care |
| Commercial | Commercial | 27 | First Allmerica Financial Life Insurance PPO | Commercial Managed Care |
| Commercial | Commercial | 179 | First Health Life and Health Insurance Company | Commercial Insurance |
| Commercial | Commercial | 839 | Fortis | Commercial Insurance |
| Commercial | Commercial | 88 | Freedom Care | PPO and Other Managed Care Plans Not Elsewhere Classified |
| Commercial | Commercial | 840 | GEHA Connection Dental | Commercial Insurance |
| Commercial | Commercial | 191 | Genworth Preferred PPO | Commercial Managed Care |
| Commercial | Commercial | 841 | GHI | Commercial Insurance |
| Commercial | Commercial | 820 | Great West Dental | PPO and Other Managed Care Plans Not Elsewhere Classified |
| Commercial | Commercial | 162 | Great West Life POS | Commercial Managed Care |
| Commercial | Commercial | 28 | Great West Life PPO | Commercial Managed Care |
| Commercial | Commercial | 89 | Great West/NE Care | Commercial Insurance |
| Commercial | Commercial | 192 | Guarantee Trust Life Insurance Company - PPO | Commercial Managed Care |
| Commercial | Commercial | 55 | Guardian Life Insurance | Commercial Insurance |
| Commercial | Commercial | 23 | Guardian Life Insurance Company PPO | Commercial Managed Care |
| Commercial | Commercial | 56 | Hartford L&A Insurance | Commercial Insurance |
| Commercial | Commercial | 200 | Hartford Life Insurance Co | Commercial Insurance |
| Commercial | Commercial | 1 | Harvard Community Health Plan | HMO |
| Commercial | Commercial | 193 | Harvard Pilgrim - Indemnity | Commercial Insurance |
| Commercial | Commercial | 194 | Harvard Pilgrim - POS | HMO |
| Commercial | Commercial | 195 | Harvard Pilgrim - PPO | HMO |
| Commercial | Commercial | 822 | Harvard Pilgrim Health Care | PPO and Other Managed Care Plans Not Elsewhere Classified |
| Commercial | Commercial | 196 | Harvard Pilgrim Health Care, Inc. (HMO) | HMO |
| Commercial | Commercial | 20 | HCHP of New England (formerly RIGHA) | HMO |
| Commercial | Commercial | 37 | HCHP-Pilgrim HMO (integrated product) | HMO |
| Commercial | Commercial | 197 | Health Insurance Plan of New York (HIP) | Commercial Insurance |
| Commercial | Commercial | 24 | Health New England | HMO |
| Commercial | Commercial | 14 | Health New England Advantage POS | Point-of-Service Plan |
| Commercial | Commercial | 206 | Health New England Guaranteed Issue - Individual Plans | Commercial Insurance |
| Commercial | Commercial | 38 | Health New England Select (self-funded) | HMO |
| Commercial | Commercial | 205 | Health New England Select Premier PPO | PPO |
| Commercial | Commercial | 45 | Health Source New Hampshire | HMO |
| Commercial | Commercial | 251 | Healthsource CMHC HMO | HMO |
| Commercial | Commercial | 164 | Healthsource CMHC Plus POS | Point-of-Service Plan |
| Commercial | Commercial | 49 | Healthsource CMHC Plus PPO | PPO and Other Managed Care Plans Not Elsewhere Classified |
| Commercial | Commercial | 72 | Healthsource New Hampshire | Commercial Insurance |
| Commercial | Commercial | 165 | Healthsource New Hampshire POS (self-funded) | Point-of-Service Plan |
| Commercial | Commercial | 90 | Healthsource Preferred (self-funded) | PPO and Other Managed Care Plans Not Elsewhere Classified |
| Commercial | Commercial | 271 | Hillcrest HMO | HMO |
| Commercial | Commercial | 81 | HMO Blue | Blue Cross Managed Care |
| Commercial | Commercial | 247 | Humana Insurance Company[[3]](#footnote-3)  | Commercial Insurance |
| Commercial | Commercial | 198 | John Alden Life Insurance Company | Commercial Insurance |
| Commercial | Commercial | 57 | John Hancock Life Insurance | Commercial Insurance |
| Commercial | Commercial | 82 | John Hancock Preferred | Commercial Managed Care |
| Commercial | Commercial | 169 | Kaiser Added Choice | Point-of-Service Plan |
| Commercial | Commercial | 40 | Kaiser Foundation | HMO |
| Commercial | Commercial | 58 | Liberty Life Insurance | Commercial Insurance |
| Commercial | Commercial | 85 | Liberty Mutual | Commercial Insurance |
| Commercial | Commercial | 842 | Lincoln Financial Group | Commercial Insurance |
| Commercial | Commercial | 59 | Lincoln National Insurance | Commercial Insurance |
| Commercial | Commercial | 843 | London Health Administrators | Commercial Insurance |
| Commercial | Commercial | 248 | Mail Handlers Benefit Plan | Commercial Insurance |
| Commercial | Commercial | 19 | Matthew Thornton | HMO |
| Commercial | Commercial | 43 | MEDTAC | HMO |
| Commercial | Commercial | 249 | MEGA Life and Health Insurance Company | Commercial Insurance |
| Commercial | Commercial | 823 | MetLife Dental | PPO and Other Managed Care Plans Not Elsewhere Classified |
| Commercial | Commercial | 96 | Metrahealth (United Health Care of NE) | Commercial Insurance |
| Commercial | Commercial | 158 | Metrahealth - HMO (United Health Care of NE) | Commercial Managed Care |
| Commercial | Commercial | 172 | Metrahealth - POS (United Health Care of NE) | Commercial Managed Care |
| Commercial | Commercial | 157 | Metrahealth - PPO (United Health Care of NE) | Commercial Managed Care |
| Commercial | Commercial | 844 | Midwest Life Insurance | Commercial Insurance |
| Commercial | Commercial | 209 | Mid-West National Life Insurance Company of Tennessee | Commercial Insurance |
| Commercial | Commercial | 201 | Mutual of Omaha | Commercial Insurance |
| Commercial | Commercial | 62 | Mutual of Omaha Insurance | Commercial Insurance |
| Commercial | Commercial | 33 | Mutual of Omaha PPO | Commercial Managed Care |
| Commercial | Commercial | 47 | Neighborhood Health Plan | HMO |
| Commercial | Commercial | 3 | Network Blue (PPO) | Blue Cross Managed Care |
| Commercial | Commercial | 91 | New England Benefits | Commercial Insurance |
| Commercial | Commercial | 63 | New England Mutual Insurance | Commercial Insurance |
| Commercial | Commercial | 64 | New York Life Care Indemnity | Commercial Insurance |
| Commercial | Commercial | 34 | New York Life Care PPO | Commercial Managed Care |
| Commercial | Commercial | 202 | New York Life Insurance | Commercial Insurance |
| Commercial | Commercial | 227 | Northeast Health Direct - PPO | PPO |
| Commercial | Commercial | 31 | One Health Plan HMO (Great West Life) | Commercial Managed Care |
| Commercial | Commercial | 77 | Options for Healthcare PPO | PPO and Other Managed Care Plans Not Elsewhere Classified |
| Commercial | Commercial | 147 | Other Commercial (not listed elsewhere) | Commercial Insurance |
| Commercial | Commercial | 199 | Other EPO (not listed elsewhere) | Exclusive Provider Organization |
| Commercial | Commercial | 148 | Other HMO (not listed elsewhere) | HMO |
| Commercial | Commercial | 150 | Other Non-Managed Care (not listed elsewhere) | Other Non-Managed Care Plans |
| Commercial | Commercial | 99 | Other POS (not listed elsewhere) | Point-of-Service Plan |
| Commercial | Commercial | 156 | Out of state BCBS | Blue Cross |
| Commercial | Commercial | 228 | Oxford Health Plans | Commercial Insurance |
| Commercial | Commercial | 65 | Paul Revere Life Insurance | Commercial Insurance |
| Commercial | Commercial | 78 | Phoenix Preferred PPO | Commercial Managed Care |
| Commercial | Commercial | 10 | Pilgrim Advantage - PPO | PPO and Other Managed Care Plans Not Elsewhere Classified |
| Commercial | Commercial | 39 | Pilgrim Direct | HMO |
| Commercial | Commercial | 8 | Pilgrim Health Care | HMO |
| Commercial | Commercial | 95 | Pilgrim Select - PPO | PPO and Other Managed Care Plans Not Elsewhere Classified |
| Commercial | Commercial | 183 | Pioneer Health Care EPO | Exclusive Provider Organization |
| Commercial | Commercial | 79 | Pioneer Health Care PPO | PPO and Other Managed Care Plans Not Elsewhere Classified |
| Commercial | Commercial | 243 | Pioneer Health Network | HMO |
| Commercial | Commercial | 25 | Pioneer Plan | HMO |
| Commercial | Commercial | 149 | PPO and Other Managed Care | PPO and Other Managed Care Plans Not Elsewhere Classified |
| Commercial | Commercial | 246 | Preferred Blue PPO | Blue Cross Managed Care |
| Commercial | Commercial | 845 | Premier Access Dental Plans | Commercial Insurance |
| Commercial | Commercial | 203 | Principal Financial Group (Principal Mutual Life) | Commercial Insurance |
| Commercial | Commercial | 184 | Private Healthcare Systems EPO | Exclusive Provider Organization |
| Commercial | Commercial | 166 | Private Healthcare Systems POS | Point-of-Service Plan |
| Commercial | Commercial | 84 | Private Healthcare Systems PPO | PPO and Other Managed Care Plans Not Elsewhere Classified |
| Commercial | Commercial | 229 | Profesional Insurance Company (Indemnity) | Commercial Insurance |
| Commercial | Commercial | 75 | Prudential Healthcare HMO | Commercial Managed Care |
| Commercial | Commercial | 17 | Prudential Healthcare POS | Commercial Managed Care |
| Commercial | Commercial | 18 | Prudential Healthcare PPO | Commercial Managed Care |
| Commercial | Commercial | 66 | Prudential Insurance | Commercial Insurance |
| Commercial | Commercial | 93 | Psychological Health Plan | PPO and Other Managed Care Plans Not Elsewhere Classified |
| Commercial | Commercial | 101 | Quarto Claims | Commercial Insurance |
| Commercial | Commercial | 846 | Sentry Life Insurance | Commercial Insurance |
| Commercial | Commercial | 847 | Sonoco | Commercial Insurance |
| Commercial | Commercial | 848 | Sun Life Dental Benefits | Commercial Insurance |
| Commercial | Commercial | 849 | Symetra Life Insurance Company | Commercial Insurance |
| Commercial | Commercial | 94 | Time Insurance Co | Commercial Insurance |
| Commercial | Commercial | 100 | Transport Life Insurance | Commercial Insurance |
| Commercial | Commercial | 235 | Trustmark Life Insurance Company | Commercial Insurance |
| Commercial | Commercial | 239 | Tufts Associated Health Maintenance Organization, Inc. POS Plan | HMO |
| Commercial | Commercial | 238 | Tufts Associated Health Maintenance Organization, Inc. PPO | HMO |
| Commercial | Commercial | 7 | Tufts Associated Health Plan | HMO |
| Commercial | Commercial | 236 | Tufts Health Maintenance Organization, Inc. (TAHMO) | HMO |
| Commercial | Commercial | 237 | Tufts Insurance Company PPO | PPO |
| Commercial | Commercial | 80 | Tufts Total Health Plan PPO | PPO and Other Managed Care Plans Not Elsewhere Classified |
| Commercial | Commercial | 97 | UniCare | Commercial Insurance |
| Commercial | Commercial | 825 | Unicare Dental | PPO and Other Managed Care Plans Not Elsewhere Classified |
| Commercial | Commercial | 240 | Unicare PPO | PPO |
| Commercial | Commercial | 182 | UniCare Preferred Plus Managed Access EPO | Commercial Managed Care |
| Commercial | Commercial | 270 | UniCare Preferred Plus PPO | Commercial Managed Care |
| Commercial | Commercial | 70 | Union Labor Life Insurance | Commercial Insurance |
| Commercial | Commercial | 241 | Union Security Insurance Company | Commercial Insurance |
| Commercial | Commercial | 826 | United Concordia | Other Government Payment |
| Commercial | Commercial | 86 | United Health & Life PPO | PPO and Other Managed Care Plans Not Elsewhere Classified |
| Commercial | Commercial | 73 | United Health and Life | Commercial Insurance |
| Commercial | Commercial | 226 | United Health Care of New England, Inc. | Commercial Managed Care |
| Commercial | Commercial | 9 | United Health Plan of New England (Ocean State) | HMO |
| Commercial | Commercial | 74 | United Healthcare Insurance Company | Commercial Insurance |
| Commercial | Commercial | 35 | United Healthcare Insurance Company - HMO | Commercial Managed Care |
| Commercial | Commercial | 163 | United Healthcare Insurance Company - POS | Commercial Managed Care |
| Commercial | Commercial | 36 | United Healthcare Insurance Company - PPO | Commercial Managed Care |
| Commercial | Commercial | 827 | United HealthCare: Dental | PPO and Other Managed Care Plans Not Elsewhere Classified |
| Commercial | Commercial | 48 | US Healthcare | HMO |
| Commercial | Commercial | 83 | US Healthcare Quality Network Choice- PPO | PPO and Other Managed Care Plans Not Elsewhere Classified |
| Commercial | Commercial | 170 | US Healthcare Quality POS | Point-of-Service Plan |
| Commercial | Commercial | 102 | Wausau Insurance Company | Commercial Insurance |
| Commercial | Commercial | 242 | Wellcare Health Plans, Inc. | Commercial Insurance |
| Medicaid | Medicaid | 115 | Medicaid Managed Care - Pilgrim Health Care | Medicaid Managed Care |
| Medicaid | Medicaid | 816 | DentaQuest MassHealth | Medicare Managed Care |
| Medicaid | Medicaid | 821 | Guardian Dental | Medicaid |
| Medicaid | Medicaid | 208 | HealthNet (Boston Medical Center MCD Program) | Medicaid Managed Care |
| Medicaid | Medicaid | 103 | Medicaid (includes MassHealth) | Medicaid |
| Medicaid | Medicaid | 107 | Medicaid Managed Care - Community Health Plan | Medicaid Managed Care |
| Medicaid | Medicaid | 108 | Medicaid Managed Care - Fallon Community Health Plan | Medicaid Managed Care |
| Medicaid | Medicaid | 109 | Medicaid Managed Care - Harvard Community Health Plan | Medicaid Managed Care |
| Medicaid | Medicaid | 110 | Medicaid Managed Care - Health New England | Medicaid Managed Care |
| Medicaid | Medicaid | 111 | Medicaid Managed Care - HMO Blue | Medicaid Managed Care |
| Medicaid | Medicaid | 112 | Medicaid Managed Care - Kaiser Foundation Plan | Medicaid Managed Care |
| Medicaid | Medicaid | 113 | Medicaid Managed Care - Neighborhood Health Plan | Medicaid Managed Care |
| Medicaid | Medicaid | 114 | Medicaid Managed Care - United Health Plans of NE | Medicaid Managed Care |
| Medicaid | Medicaid | 119 | Medicaid Managed Care Other (not listed elsewhere) | Medicaid Managed Care |
| Medicaid | Medicaid | 116 | Medicaid Managed Care -Tufts Associated Health Plan | Medicaid Managed Care |
| Medicaid | Medicaid | 106 | Medicaid Managed Care-Central Mass Health Care | Medicaid Managed Care |
| Medicaid | Medicaid | 104 | Medicaid Managed Care-Primary Care Clinician | Medicaid Managed Care |
| Medicaid | Medicaid | 118 | Medicaid Mental Health & Substance Abuse Plan - Mass Behavioral Health Partnership | Medicaid Managed Care |
| Medicaid | Medicaid | 207 | Network Health (Cambridge Health Alliance MCD Program) | Medicaid Managed Care |
| Medicaid | Medicaid | 120 | Out-of-State Medicaid | Other Government Payment |
| Medicare | Medicare | 137 | AARP/Medigap supplement | Commercial Insurance |
| Medicare | Medicare | 173 | Aetna Medicare Open | Medicare Managed Care |
| Medicare | Medicare | 136 | BCBS Medex | Blue Cross |
| Medicare | Medicare | 253 | Blue Medicare PFFS | Medicare Managed Care |
| Medicare | Medicare | 254 | Cigna Medicare Access Plans | Medicare Managed Care |
| Medicare | Medicare | 817 | DentaQuest Senior Whole Health | PPO and Other Managed Care Plans Not Elsewhere Classified |
| Medicare | Medicare | 180 | Fresenius Medical Care Health Plan (Medicare Advantage Plan) | Medicare Managed Care |
| Medicare | Medicare | 255 | Health Net Pearl | Medicare Managed Care |
| Medicare | Medicare | 252 | Health New England (HNE) Medicare Advantage Plan | Medicare Managed Care |
| Medicare | Medicare | 256 | Humana Gold PFFS | Medicare Managed Care |
| Medicare | Medicare | 273 | MassHealth Senior Care Options | Medicare Managed Care |
| Medicare | Medicare | 121 | Medicare | Medicare |
| Medicare | Medicare | 220 | Medicare HMO - Blue Care 65 | Medicare Managed Care |
| Medicare | Medicare | 125 | Medicare HMO - Fallon Senior Plan | Medicare Managed Care |
| Medicare | Medicare | 221 | Medicare HMO - Harvard Community Health Plan 65 | Medicare Managed Care |
| Medicare | Medicare | 223 | Medicare HMO - Harvard Pilgrim Health Care of New England Care Plus | Medicare Managed Care |
| Medicare | Medicare | 214 | Medicare HMO - Harvard Pilgrim Health Plan - Medicare Enhance | Medicare Managed Care |
| Medicare | Medicare | 230 | Medicare HMO - HCHP First Seniority | Medicare Managed Care |
| Medicare | Medicare | 127 | Medicare HMO - Health New England Medicare Wrap | Medicare Managed Care |
| Medicare | Medicare | 222 | Medicare HMO - Healthsource CMHC | Medicare Managed Care |
| Medicare | Medicare | 212 | Medicare HMO - Healthsource CMHC Central Care Supplement | Medicare Managed Care |
| Medicare | Medicare | 128 | Medicare HMO - HMO Blue for Seniors | Medicare Managed Care |
| Medicare | Medicare | 129 | Medicare HMO - Kaiser Medicare Plus Plan | Medicare Managed Care |
| Medicare | Medicare | 234 | Medicare HMO - Managed Blue for Seniors | Medicare Managed Care |
| Medicare | Medicare | 132 | Medicare HMO - Matthew Thornton Senior Plan | Medicare Managed Care |
| Medicare | Medicare | 213 | Medicare HMO - Medicare Complete Plans offered by SecureHorizons | Medicare Managed Care |
| Medicare | Medicare | 211 | Medicare HMO - Neighborhood Health Plan Senior Health Plus | Medicare Managed Care |
| Medicare | Medicare | 134 | Medicare HMO - Other (not listed elsewhere) | Medicare Managed Care |
| Medicare | Medicare | 131 | Medicare HMO - Pilgrim Enhance 65 | Medicare Managed Care |
| Medicare | Medicare | 210 | Medicare HMO - Pilgrim Preferred 65 | Medicare Managed Care |
| Medicare | Medicare | 231 | Medicare HMO - Pilgrim Prime | Medicare Managed Care |
| Medicare | Medicare | 232 | Medicare HMO - Seniorcare Direct | Medicare Managed Care |
| Medicare | Medicare | 233 | Medicare HMO - Seniorcare Plus | Medicare Managed Care |
| Medicare | Medicare | 224 | Medicare HMO - Tufts Secure Horizons | Medicare Managed Care |
| Medicare | Medicare | 225 | Medicare HMO - US Healthcare | Medicare Managed Care |
| Medicare | Medicare | 133 | Medicare HMO -Tufts Medicare Supplement (TMS) | Medicare Managed Care |
| Medicare | Medicare | 216 | Medicare Special Needs Plan - Commonwealth Care Alliance | Medicare Managed Care |
| Medicare | Medicare | 217 | Medicare Special Needs Plan - Fallon Community Health Plan | Medicare Managed Care |
| Medicare | Medicare | 218 | Medicare Special Needs Plan - Senior Whole Health | Medicare Managed Care |
| Medicare | Medicare | 219 | Medicare Special Needs Plan - United Health Group Evercare Mass. SCO and Evercare Plan IP | Medicare Managed Care |
| Medicare | Medicare | 141 | Other Medigap (not listed elsewhere) | Commercial Insurance |
| Medicare | Medicare | 135 | Out-of-State Medicare | Medicare |
| Medicare | Medicare | 824 | Principal Plan Dental | Medicare Managed Care |
| Medicare | Medicare | 257 | Today's Options Premier from Universal American | Medicare Managed Care |
| Medicare | Medicare | 245 | Trail Blazer Health Enterprises, LLC | Medicare Managed Care |
| Medicare | Medicare | 244 | Tufts Medicare Complement (TMC) | Commercial Insurance |
| Medicare | Medicare | 215 | Tufts Medicare HMO - Medicare Preferred | Medicare Managed Care |
| Medicare | Medicare | 258 | Unicare Security Choice | Medicare Managed Care |
| Other Payer | AutoIns | 272 | Auto Insurance | Auto Insurance |
| Other Payer | Other | 151 | CHAMPUS | Other Government Payment |
| Other Payer | Other | 996 | Charity Care | Other Free Care (Charity Care) |
| Other Payer | Other | 809 | Children’s Medical Security | Government |
| Other Payer | Other | 178 | Children's Medical Security Plan (CMSP) | Government |
| Other Payer | Other | 152 | Foundation | Other Non-Managed Care Plans |
| Other Payer | Other | 143 | Free Care | Free Care |
| Other Payer | Other | 990 | Free Care - Co-pay, Deductible, or Co-Insurance | Free Care |
| Other Payer | Other | 153 | Grant | Other Non-Managed Care Plans |
| Other Payer | HSN | 995 | Health Safety Net Office | HSNO |
| Other Payer | Other | 98 | Healthy Start | Free Care |
| Other Payer | Other | 130 | Invalid (replaced by #232 and 233)[[4]](#footnote-4) |  |
| Other Payer | Other | 12 | Invalid (replaced by #49) |   |
| Other Payer | Other | 53 | Invalid (no replacement) |  |
| Other Payer | Other | 117 | Invalid (no replacement) |   |
| Other Payer | Other | 123 | Invalid (no replacement) |  |
| Other Payer | Other | 92 | Invalid (replaced by # 84 | Self Pay |
| Other Payer | Other | 124 | Invalid (replaced by # 222) |  |
| Other Payer | Other | 105 | Invalid (replaced by #111) |   |
| Other Payer | Other | 32 | Invalid (replaced by #157 and 158) |  |
| Other Payer | Other | 41 | Invalid (replaced by #157) |   |
| Other Payer | Other | 15 | Invalid (replaced by #158) |  |
| Other Payer | Other | 29 | Invalid (replaced by #171 and 250) |   |
| Other Payer | Other | 16 | Invalid (replaced by #172) |  |
| Other Payer | Other | 126 | Invalid (replaced by #230) |   |
| Other Payer | Other | 122 | Invalid (replaced by #234) |  |
| Other Payer | Other | 6 | Invalid (replaced by #251) |   |
| Other Payer | Other | 76 | Invalid (replaced by #270) |  |
| Other Payer | Other | 26 | Invalid (replaced by #75) |   |
| Other Payer | Other | 5 | Invalid (replaced by #9) |  |
| Other Payer | Other | 61 | Invalid (replaced by #96) |   |
| Other Payer | Other | 68 | Invalid (replaced by #96) |  |
| Other Payer | Other | 60 | Invalid (replaced by #97) |   |
| Other Payer | Other | 159 | None (Valid only for Secondary Source of Payment) | None (Valid only for Secondary Payer) |
| Other Payer | Other | 144 | Other Government | Other Government Payment |
| Other Payer | Other | 168 | Reserved |  |
| Other Payer | SelfPay | 145 | Self-Pay | Self Pay |
| Other Payer | Other | 850 | Tricare Dental | PPO and Other Managed Care Plans Not Elsewhere Classified |
| Other Payer | WorkComp | 146 | Worker's Compensation | Worker's Compensation |

# Appendix D: Inpatient Service Category MS-DRGs

|  |  |
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| Inpatient Service Category | MS-DRG |
| Maternity | 765,766,767,768,769,770,774,775,776,777,778,779,780,781,782 |
| Medical | 052,053,054,055,056,057,058,059,060,061,062,063,064,065,066,067,068,069,070,071,072,073,074,075,076,077,078,079,080,081,082,083,084,085,086,087,088,089,090,091,092,093,094,095,096,097,098,099,100,101,102,103,121,122,123,124,125,146,147,148,149,150,151,152,153,154,155,156,157,158,159,175,176,177,178,179,180,181,182,183,184,185,186,187,188,189,190,191,192,193,194,195,196,197,198,199,200,201,202,203,204,205,206,207,208,280,281,282,283,284,285,286,287,288,289,290,291,292,293,294,295,296,297,298,299,300,301,302,303,304,305,306,307,308,309,310,311,312,313,314,315,316,368,369,370,371,372,373,374,375,376,377,378,379,380,381,382,383,384,385,386,387,388,389,390,391,392,393,394,395,432,433,434,435,436,437,438,439,440,441,442,443,444,445,446,533,534,535,536,537,538,539,540,541,542,543,544,545,546,547,548,549,550,551,552,553,554,555,556,557,558,559,560,561,562,563,564,565,566,592,593,594,595,596,597,598,599,600,601,602,603,604,605,606,607,637,638,639,640,641,642,643,644,645,682,683,684,685,686,687,688,689,690,691,692,693,694,695,696,697,698,699,700,722,723,724,725,726,727,728,729,730,754,755,756,757,758,759,760,761,808,809,810,811,812,813,814,815,816,834,835,836,837,838,839,840,841,842,843,844,845,846,847,848,849,862,863,864,865,866,867,868,869,870,871,872,913,914,915,916,917,918,919,920,921,922,923,933,934,935,947,948,949,950,951,963,964,965,974,975,976,977 |
| Mental Health  | 876,880,881,882,883,884,885,886,887ICD-9 principal diagnosis code exclusion\* 317,318.0,318.1,318.2,319,318 |
| Newborns | 789,790,791,792,793,794,795 |
| Surgical | 001,002,003,004,005,006,007,008,010,011,012,013,020,021,022,023,024,025,026,027,028,029,030,031,032,033,034,035,036,037,038,039,040,041,042,113,114,115,116,117,129,130,131,132,133,134,135,136,137,138,139,163,164,165,166,167,168,215,216,217,218,219,220,221,222,223,224,225,226,227,228,229,230,231,232,233,234,235,236,237,238,239,240,241,242,243,244,245,246,247,248,249,250,251,252,253,254,255,256,257,258,259,260,261,262,263,264,326,327,328,329,330,331,332,333,334,335,336,337,338,339,340,341,342,343,344,345,346,347,348,349,350,351,352,353,354,355,356,357,358,405,406,407,408,409,410,411,412,413,414,415,416,417,418,419,420,421,422,423,424,425,453,454,455,456,457,458,459,460,461,462,463,464,465,466,467,468,469,470,471,472,473,474,475,476,477,478,479,480,481,482,483,484,485,486,487,488,489,490,491,492,493,494,495,496,497,498,499,500,501,502,503,504,505,506,507,508,509,510,511,512,513,514,515,516,517,573,574,575,576,577,578,579,580,581,582,583,584,585,614,615,616,617,618,619,620,621,622,623,624,625,626,627,628,629,630,652,653,654,655,656,657,658,659,660,661,662,663,664,665,666,667,668,669,670,671,672,673,674,675,707,708,709,710,711,712,713,714,715,716,717,718,734,735,736,737,738,739,740,741,742,743,744,745,746,747,748,749,750,799,800,801,802,803,804,820,821,822,823,824,825,826,827,828,829,830,853,854,855,856,857,858,901,902,903,904,905,906,907,908,909,927,928,929,939,940,941,955,956,957,958,959,969,970,981,982,983,984,985,986,987,988,989 |
| Substance Abuse | 894,895,896,897 |
| Other Inpatient | If a DRG did not fall into an above category, it was categorized as Other Inpatient. |

\*Mental health utilization services included the DRGs within the list except when they were paired with the ICD-9 principal diagnosis codes listed.

# Appendix E: Massachusetts Acute Care Hospital Sites by Region

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| --- | --- |
| **Region** | **Hospital Site Name** |
| Cape and Islands | Cape Cod Hospital |
| Cape and Islands | Falmouth Hospital |
| Cape and Islands | Martha's Vineyard Hospital |
| Cape and Islands | Nantucket Cottage Hospital |
| Central MA | Athol Memorial Hospital |
| Central MA | Clinton Hospital |
| Central MA | Harrington Memorial Hospital |
| Central MA | HealthAlliance Hospital |
| Central MA | HealthAlliance Hospital - Burbank Campus |
| Central MA | HealthAlliance Hospital - Leominster Campus |
| Central MA | Heywood Hospital |
| Central MA | Hubbard Regional Hospital |
| Central MA | Saint Vincent Hospital |
| Central MA | UMass Memorial Medical Center - Memorial Campus |
| Central MA | UMass Memorial Medical Center - University Campus |
| Metro Boston | Beth Israel Deaconess Hospital - Needham |
| Metro Boston | Beth Israel Deaconess Medical Center - East Campus |
| Metro Boston | Beth Israel Deaconess Hospital - Milton |
| Metro Boston | Boston Children's Hospital |
| Metro Boston | Boston Medical Center - Menino Pavilion Campus |
| Metro Boston | Brigham and Women's Faulkner Hospital |
| Metro Boston | Brigham and Women's Hospital |
| Metro Boston | Cambridge Health Alliance - Cambridge Hospital Campus |
| Metro Boston | Cambridge Health Alliance - Somerville Hospital Campus |
| Metro Boston | Cambridge Health Alliance - Whidden Hospital Campus |
| Metro Boston | Dana-Farber Cancer Institute |
| Metro Boston | Hallmark Health - Lawrence Memorial Hospital Campus |
| Metro Boston | Hallmark Health - Melrose-Wakefield Hospital Campus |
| Metro Boston | Massachusetts Eye and Ear Infirmary |
| Metro Boston | Massachusetts General Hospital |
| Metro Boston | Mount Auburn Hospital |
| Metro Boston | New England Baptist Hospital |
| Metro Boston | Newton-Wellesley Hospital |
| Metro Boston | Shriners Hospitals for Children Boston |
| Metro Boston | Steward Carney Hospital, Inc. |
| Metro Boston | Steward St. Elizabeth's Medical Center |
| Metro Boston | Tufts Medical Center |
| Metro South | Jordan Hospital[[5]](#footnote-5) |
| Metro South | Morton Hospital, A Steward Family Hospital, Inc. |
| Metro South | Quincy Medical Center, A Steward Family Hospital, Inc. |
| Metro South | Signature Healthcare Brockton Hospital |
| Metro South | South Shore Hospital |
| Metro South | Steward Good Samaritan Medical Center - Brockton Campus |
| Metro West | Marlborough Hospital |
| Metro West | MetroWest Medical Center - Framingham Campus |
| Metro West | MetroWest Medical Center - Leonard Morse Campus |
| Metro West | Milford Regional Medical Center |
| Metro West | Steward Good Samaritan Medical Center - NORCAP Lodge Campus |
| Metro West | Steward Norwood Hospital, Inc. |
| Metro West | Sturdy Memorial Hospital |
| Northeast MA | Anna Jaques Hospital |
| Northeast MA | Emerson Hospital |
| Northeast MA | Lahey Clinic - Burlington Campus |
| Northeast MA | Lahey Clinic North Shore |
| Northeast MA | Lawrence General Hospital |
| Northeast MA | Lowell General Hospital |
| Northeast MA | Merrimack Valley Hospital |
| Northeast MA | Merrimack Valley Hospital, A Steward Family Hospital, Inc. |
| Northeast MA | Nashoba Valley Medical Center |
| Northeast MA | Nashoba Valley Medical Center, A Steward Family Hospital, Inc. |
| Northeast MA | North Shore Medical Center - Salem Campus |
| Northeast MA | North Shore Medical Center - Union Campus |
| Northeast MA | Northeast Hospital - Addison Gilbert Campus |
| Northeast MA | Northeast Hospital - Beverly Campus |
| Northeast MA | Saints Medical Center |
| Northeast MA | Steward Holy Family Hospital, Inc. |
| Northeast MA | Winchester Hospital |
| Southcoast | Southcoast Hospitals Group - Charlton Memorial Campus |
| Southcoast | Southcoast Hospitals Group - St. Luke's Campus |
| Southcoast | Southcoast Hospitals Group - Tobey Hospital Campus |
| Southcoast | Steward Saint Anne's Hospital, Inc. |
| Western MA | Baystate Franklin Medical Center |
| Western MA | Baystate Mary Lane Hospital |
| Western MA | Baystate Medical Center |
| Western MA | Berkshire Medical Center - Berkshire Campus |
| Western MA | Berkshire Medical Center - Hillcrest Campus |
| Western MA | Cooley Dickinson Hospital |
| Western MA | Fairview Hospital |
| Western MA | Holyoke Medical Center |
| Western MA | Mercy Medical Center - Providence Behavioral Health Hospital Campus |
| Western MA | Mercy Medical Center - Springfield Campus |
| Western MA | Noble Hospital |
| Western MA | North Adams Regional Hospital |
| Western MA | Shriners Hospitals for Children Springfield |
| Western MA | Wing Memorial Hospital |

1. For the purpose of this report, Hospital Fiscal Year starts on October 1 and ends on September 30. [↑](#footnote-ref-1)
2. “Other Races” includes “American Indian/Alaska Native” and “Native Hawaiian or Other Pacific Islander” categories. [↑](#footnote-ref-2)
3. Supplemental Payer Type [↑](#footnote-ref-3)
4. The Payer Source Code Description “Invalid” refers to outdated Payer Source Codes that are documented for historical reference. [↑](#footnote-ref-4)
5. Jordan Hospital became Beth Israel Deaconess Hospital-Plymouth on January 1, 2014. [↑](#footnote-ref-5)