

Massachusetts Case Mix

Hospital Inpatient Discharge Data (HIDD)

Fiscal Year 2021

Documentation Manual



Massachusetts Case Mix FY 2021 Hospital Inpatient Discharge Data

USER GUIDE

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Executive Summary

Each quarter, Massachusetts facilities provide to the Center for Health Information and Analysis (CHIA) data collected from acute care hospital inpatient discharges. The FY2021 Hospital Inpatient Discharge Database (HIDD) includes inpatient discharges that occurred between October 1, 2020 and September 30, 2021. Facilities reported a total of 744,628 discharges.

The FY2021 HIDD Guide provides general information about CHIA's most recent inpatient discharge data holdings. This information includes high level data notes (data collection, data application, and use) and a codebook (data element list, data dictionary, reference tables, and summary statistics).

Part A. Data Collection

Acute care hospitals in Massachusetts are required to submit inpatient discharge data to CHIA under 957 CMR 8.00 - APCD and Case Mix Data Submission and Regulation 957 CMR 5.00: Health Care Claims, Case Mix and Charge Data Release Procedures. Researchers can access HIDD regulations by visiting CHIA's web site at <http://www.chiamass.gov/regulations> or by faxing a request to CHIA at 617-727-7662.

957 CMR 8.00 - APCD and Case Mix Data Submission requires acute care hospitals to submit inpatient discharge data to CHIA 75 days after each quarter. The quarterly reporting intervals for the FY2021 HIDD are as follows:

- **Quarter 1: October 1, 2020 - December 31, 2020**
- **Quarter 2: January 1, 2021 – March 31, 2021**
- **Quarter 3: April 1, 2021 – June 30, 2021**
- **Quarter 4: July 1, 2021 – September 30, 2021**

CHIA reviews each hospital's quarterly data for compliance with *957 CMR 8.00 - APCD and Case Mix Data Submission* using a one percent error rate. The one percent error rate is based upon the presence of one or more errors per discharge for the hospital's quarterly submission. CHIA checks for valid codes, correct formatting, and presence of the required data elements. If one percent or more of the discharges are rejected, CHIA rejects the entire quarterly submission.

Each hospital receives a quarterly error report displaying invalid discharge information. Quarterly data that does not meet the one percent compliance standard must be resubmitted by the reporting hospital until the standard is met.

Emergency Department (ED) Visits and Outpatient Observation Unit Initiated Stays

Discharges that began in an ED Visit and ended in an inpatient discharge will have a code '2' in the ED Flag Code field for admitted from the Emergency Department. Discharges that began in an observation unit stay and ended in an inpatient discharge will have a code 'Y' in the Outpatient Observation Stay Flag Code field for admitted from Outpatient Observation Stay. Any ED visit or observation stay that resulted in an inpatient discharge will appear in the FY2021 HIDD and should not appear in the FY2021 Outpatient Emergency Department Database or FY2021 Outpatient Observation Stay Database. If the ED Flag Code is '2', or other evidence of an emergency department visit is noted in the data, such as source of admission code is 'R' (within hospital emergency room transfer) or '045X' revenue codes in the service table for ED utilization, then Providers are requested to report ED Boarding information. This information is reported in five fields:

- Number of hours in the ED
- ED Registration Date
- ED Registration Time
- ED Discharge Date
- ED Discharge Time

HIDD Verification Report Process

Semi-annually CHIA sends each hospital a profile report of their discharge data to maintain and improve the quality of their submissions. The Verification Report process gives the hospitals the opportunity to review the data they have provided to CHIA and affirm data accuracy and completeness.

CHIA asks each hospital to review and verify the data contained within the report. Each Verification Report has a series of frequency tables for selected data elements that include, but are not limited to, the number of discharges per month and breakouts by admission type, admission source, race, and patient status.

Hospitals must affirm that reported data is accurate and complete or identify any discrepancies on the year-end verification cycle. Hospitals certify the accuracy and completeness of their data by completing a Verification Report Response form. CHIA accepts two response types from hospitals:

A: A hospital indicates its agreement that the data appearing on the Verification Report is accurate and that it represents the hospital's case mix profile.

B: A hospital indicates that the data on the report is accurate except for the discrepancies noted. If any data discrepancies exist, CHIA requests that hospitals provide written explanations of the discrepancies.

Users interested in the FY2021 HIDD Verification Reports should contact CHIA at CaseMix.data@chiamass.gov. Please indicate the fiscal year of the Verification Report, the dataset name, and if the information is needed for a specific hospital or set of hospitals.

Part B: Applying for and Using CHIA Data

Researchers interested in receiving approval to access CHIA data should follow the instructions below to apply for the data. Due to the custom nature of each data use request, limited information covering all data uses is provided by CHIA. Users needing additional assistance applying for data or using the data should contact CHIA at CaseMix.data@chiamass.gov.

How to Apply for the Data

- To obtain a copy of the Application Form, Data Use Agreement, Data Management Plan and/or other documents required for application, go to: <http://www.chiamass.gov/chia-data/>
- Follow the links to the forms that correspond to the data (Case Mix, MA APCD) and application type (Government, Non-Government) that are appropriate to the data request.
- Information on the Hospital Case Mix and Charge Data Fee Schedule is available on the following link: <https://www.chiamass.gov/assets/docs/g/chia-ab/1705.pdf>
- All application documents must be submitted to CHIA and are managed through IRBNet.org. Instructions for submitting application materials through IRBNet are available on the following link.
- Non-Government applicants can accept approval to use a pre-configured Limited Data Set (LDS), designed to protect patient data confidentiality while ensuring analytic value. This streamlined dataset also improves CHIA's ability to deliver the data efficiently.
- The data contained in Case Mix databases include personal information and Protected Health Information, the release of which is restricted by state and federal laws and regulations. The application process has been designed to help applicants prepare applications that will allow the release of the data while protecting patient privacy. For this reason, applicants should familiarize themselves with CHIA's APCD and Case Mix Release Regulation (957 CMR 5.00) and the forms and other background information referenced above.

Securing CHIA Data Prior to Use

Approved data recipients, or agents, are obliged by the application and confidentiality agreement to secure the data in a manner that protects the confidentiality of the records and complies fully with the terms of CHIA's Data Use Agreement. All data obtained from CHIA must reside on an encrypted hard drive and/or secure network.

Data Delivery

CHIA delivers HIDD on CD-ROMs. Data users must be able to meet the following Hardware and CD requirements. Users must also be able to read and download the data files to their back office.

Hardware Requirements:

- CD ROM Device
- Encrypted Hard Drive with 2.0 GB of space available

Data Use

The FY2021 Case Mix HIDD consists of ASCII text files (.txt), Microsoft Access Database files (.mdb) or SAS files (.sas7bdat). Each file name will have a suffix of “_Full_AAAA_BBBB”. AAAA indicates the specific view of the data. BBBB indicates if the data is an LDS or Government dataset.

- The main FIPA_HDD_2021_**Discharge**_ (table name: Discharge), contains one record per discharge. The unique identifier on this table is the RecordType20ID.
- FIPA_HDD_2021_**DiagnosisCode**_ (table name: DiagnosisCode), contains one record per diagnosis reported for each visit. The Discharge table has a one-to-many relationship with this table by linking the RecordType20ID.
- FIPA_HDD_2021_**ProcedureCode**_ (table name: ProcedureCode), contains one record per procedure for each visit. The Discharge table has a one-to-many relationship with this table by linking the RecordType20ID.
- FIPA_HDD_2021_**Service**_ (table name: Service), contains one record per revenue code service reported for each visit. The Discharge table has a one-to-many relationship with this table by linking the RecordType20ID.
- FIPA_HDD_2021_**Organization**_ (table name: Organization) contains one record per organization. This table can be used to lookup facility names, EMS region, and Teaching status. The Discharge table has a many to one relationship with this Table by linking the appropriate OrgId (IdOrgFiler, IdOrgHosp, IdOrgSite or IdOrgTransfer).
- FIPA_HDD_2021_**SubmissionLog**_ (table name: SubmissionLog) contains one record per quarter for each of the Inpatient facilities filing data. The Discharge table has a many to one relationship with this Table by linking the IdOrgFiler.
- FIPA_HDD_2021_**Error Log**_ (table name: ErrorLog) contains records by quarter and by fiscal year on the number of records pass and fail and the reason for fail by IdOrgFiler. The Discharge table has a one- to- many relationship with this Table by linking the RecordType20ID.

Diagnosis-Related Groupers (DRGs):

- FIPA_HDD_2021_**APR200**, FIPA_HDD_2021_**APR261**, FIPA_HDD_2021_**APR300**, FIPA_HDD_2021_**APR340**, FIPA_HDD_2021_**APR360**, FIPA_HDD_2021_**CMS380** contain grouper data. In the Microsoft Access Database (mdb) release, each of the DRG versions are released as separate tables. The Discharge table has a one-to-one relationship with each table by linking the RecordType20ID.

Linking Files

Historically, case mix data users receive a Microsoft Access version of the data. Many users import the data into SQL, STATA™, SPSS™, SAS™, or R for analysis or data management. To accommodate the expanding one-to-many relationship between the main discharge table and other tables (due to lifting the limit on the number of diagnoses and procedure codes), files distributed will contain multiple tables that are linked using the RecordType20ID field. The RecordType20ID field is a unique identifier used to link the main Discharge table to Services, Diagnoses, DRGs and Procedures tables. The OrgID field in the Organization table can be linked to columns on the Discharge table fields that contain Organization ID numbers (IdOrgFiler, IdOrgSite, IdOrgHosp, and IdOrgTransfer).

Part C: Data Elements

The following section should provide the user with an explanation of some of the data. For more information about specific data elements, facility reporting thresholds, or other questions about the data, please contact CHIA at CaseMix.data@chiamass.gov.

About the Limited Data Set (LDS)

The pre-configured Limited Data Set (LDS) is designed to protect patient data confidentiality while ensuring analytic utility. All approved data applicants receive the “core” data elements. Data applicants seeking approval to add to the “core” elements must indicate this by selecting from the list of “buy-ups.” An applicant could use the “Buy-up” process to receive more granular data. For example, the applicant can request a “buy-up” to a 5 digit patient ZIP code instead of a 3 digit patient ZIP code. CHIA must review buy-up requests and may approve the request based on the project description. CHIA makes an additional set of core elements available only to government applicants. Government data applicants must specifically identify requested Government-Only elements in their application and provide justification for their request.

Master Data Elements List

For the FY2021 HIDD, CHIA provides a master data elements list by table. Not every approved data applicant has access to every data element—some are reserved for limited dataset buy-ups or for approved government use. All approved data applicants have access to the “CORE” data. Data applicants who choose limited dataset buy-ups may receive access to some “LDS” elements. Only government data applicants may have access to the “GOV” fields. Data applicants interested in purchasing the data should visit the CHIA website for instructions.

DISCHARGE TABLE—CORE ELEMENTS

| | | |
|------------------------|---------------------------|-----------------------------|
| AdmissionDayOfWeek | IdOrgTransfer | PrimaryDiagnosisCode |
| AdmissionSourceCode1-2 | LeaveOfAbsenceDays | PrincipalPreoperativeDays |
| AdmissionType | LengthOfStay | PrincipalProcedureCode |
| AdmissionYear | NewBornAge | PrincipalProcedureDate |
| AgeLDS | NumberOfANDs | PrincipalProcedureMonth |
| Birthweight | NumberOfDiagnosisCodes | Quarter |
| ConditionPresentECode | NumberOfHoursInED | RecordType201D |
| DaysBetweenStays | NumberOfProcedureCodes | SecondaryPayerType |
| Discharge Day of Week | OtherCareGiverCode | SexLDS |
| DischargePassed | OutpatntObsrvStayFlagCode | SpecialConditionIndicator |
| DischargeYear | PatientStatus | SubmissionControlID |
| Ecode | PayerCode1 | SubmissionPassedFlag |
| EDFlagCode | PayerCode2 | TemporaryPatientStateLDS |
| HispanicIndicator | PeriodEndingDate | TemporaryPatientZip3CodeLDS |
| HomelessIndicator | PeriodStartingDate | TotalChargesAll |
| ICDIndicator | PermanentPatientState | TotalChargesAncillaries |
| IdOrgFiler | PermanentPatientZIP3Code | TotalChargesRoutine |
| IdOrgHosp | PrimaryPayerType | TotalChargesSpecial |
| IdOrgSite | PrimaryConditionPresent | Year |

DISCHARGE TABLE—LDS ELEMENTS

| | | |
|---------------------------------|-----------------------------------|-----------------------------|
| AdmissionDate | LegCHIAOperatingPhysicianP | PermanentPatientCityLDS |
| AdmissionMonth | LegCHIAOperatingPhysicianP1-P14 | PermanentPatientZIP5CodeLDS |
| AttendingPhysicianNumber | MothersUHIN | Race1 |
| ClaimCertificateNumber | OperatingPhysicianPrincipal | Race2 |
| DischargeDate | OperatingPhysicianSignificant1-14 | TemporaryPatientCityLDS |
| DischargeMonth | PeriodEndingDate | TemporaryPatientZip5CodeLDS |
| Ethnicity1 | PeriodEndingMonth | UHIN |
| Ethnicity2 | PeriodStartingDate | UHIN_SequenceNo |
| LegCHIAAttendingPhysicianNumber | PeriodStartingMonth | |

DISCHARGE TABLE—GOVERNMENT-ONLY ELEMENTS

| | |
|---------------------------------------|---------------------------|
| ClaimCertificateNumber | HealthPlanMemberID |
| DNRStatus | HospitalBillNo |
| EmergencyDepartmentDischargeHour | MedicalRecordNumber |
| EmergencyDepartmentDischargeMinute | MotherMedicalRecordNumber |
| EmergencyDepartmentDischargeTime | OtherEthnicity |
| EmergencyDepartmentRegistrationHour | OtherRace |
| EmergencyDepartmentRegistrationMinute | PatientBirthDate |
| EmergencyDepartmentRegistrationTime | VeteransStatus |
| EmployerZipCode5 | |

DIAGNOSIS TABLE—CORE ELEMENTS

AssociatedIndicator

ConditionPresent

DiagnosisCode

Indicator

RecordType20ID

PROCEDURE TABLE—CORE ELEMENTS

AssociatedIndicator

Indicator

PreOperativeDays

ProcedureCode

ProcedureDate

RecordType20ID

SERVICE TABLE—CORE ELEMENTS

AccommodationsID

Sequence

LineNumber

SubmissionControlID

Quarter

TotalCharges

RecordType20ID

UnitsOfService

RevenueCode

Year

RevenueCodeType

GROUPER—CORE ELEMENTS

| | | |
|----------------|----------------|----------------|
| APR200_ADM_DRG | APR200_ADM_MDC | APR200_ADM_RCD |
| APR200_ADM_ROM | APR200_ADM_SOI | APR200_DIS_DRG |
| APR200_DIS_MDC | APR200_DIS_RCD | APR200_DIS_ROM |
| APR200_DIS_SOI | APR261_ADM_DRG | APR261_ADM_MDC |
| APR261_ADM_RCD | APR261_ADM_ROM | APR261_ADM_SOI |
| APR261_DIS_DRG | APR261_DIS_MDC | APR261_DIS_RCD |
| APR261_DIS_ROM | APR261_DIS_SOI | APR300_ADM_DRG |
| APR300_ADM_MDC | APR300_ADM_RCD | APR300_ADM_ROM |
| APR300_ADM_SOI | APR300_DIS_DRG | APR300_DIS_MDC |
| APR300_DIS_RCD | APR300_DIS_ROM | APR300_DIS_SOI |
| APR340_ADM_DRG | APR340_ADM_MDC | APR340_ADM_RCD |
| APR340_ADM_ROM | APR340_ADM_SOI | APR340_DIS_DRG |
| APR340_DIS_MDC | APR340_DIS_RCD | APR340_DIS_ROM |
| APR340_DIS_SOI | APR360_ADM_DRG | APR360_ADM_MDC |
| APR360_ADM_RCD | APR360_ADM_ROM | APR360_ADM_SOI |
| APR360_DIS_DRG | APR360_DIS_MDC | APR360_DIS_RCD |
| APR360_DIS_ROM | APR360_DIS_SOI | CMS380_DIS_DRG |
| CMS380_DIS_MDC | CMS380_DIS_RCD | |

Note: Above are standard DRG fields. Depending on the type/version, some fields may be NULL/BLANK as they were not utilized for that type/version.

Organization Table

The “Organization” table contains 1 record for every valid OrgId reported in the Discharge database. Referenced OrgIds include: IdOrgFiler, IdOrgHosp, IdOrgSite, and IdOrgTransfer data elements in the Discharge database. The OrgIds referenced in FY2021 HIDD are listed in Table 1.

Table 1. ORGANIZATION IDENTIFICATION

| | |
|--------------------------------|---|
| Principal Data Element: | ORGID FIELDS |
| Other Data Elements: | IdOrgFiler IdOrgHosp IdOrgSite IdOrgTransfer |
| Rules: | The Organization Table will contain 1 record for every valid OrgId reported in the Discharge database. The following table lists Hospitals only for submissions in a recent year. |

Note: The organization table contains information on all organizations submitting data and other organizations transferring patients to organizations. Below is a list of the 76 organizations submitting inpatient data in FY2021.

| ORGID | ORGANIZATION NAME |
|-------|--|
| 1 | Anna Jaques Hospital |
| 2 | Athol Memorial Hospital |
| 4 | Baystate Medical Center |
| 5 | Baystate Franklin Medical Center |
| 7 | Berkshire Health System - Berkshire Campus |
| 8 | Fairview Hospital |
| 10 | Beth Israel Deaconess Medical Center - East Campus |
| 16 | Boston Medical Center |
| 22 | Brigham and Women's Hospital |
| 25 | Signature Healthcare - Brockton Hospital |
| 27 | Cambridge Health Alliance |
| 39 | Cape Cod Hospital |
| 40 | Falmouth Hospital |
| 42 | Steward - Carney Hospital |
| 46 | Children's Hospital Boston |

| ORGID | ORGANIZATION NAME |
|-------|--|
| 49 | MetroWest Medical Center - Framingham Campus |
| 50 | Cooley Dickinson Hospital |
| 51 | Dana-Farber Cancer Institute |
| 53 | Beth Israel Deaconess Hospital – Needham |
| 57 | Emerson Hospital |
| 59 | Brigham and Women's - Faulkner Hospital |
| 62 | Steward - Good Samaritan Medical Center - Brockton Campus |
| 66 | Melrose Wakefield Healthcare - Lawrence Memorial Hospital Campus |
| 68 | Harrington Memorial Hospital |
| 71 | Health Alliance Hospitals, Inc. |
| 73 | Heywood Hospital |
| 75 | Steward - Holy Family Hospital |
| 77 | Holyoke Medical Center |
| 79 | Beth Israel Deaconess – Plymouth (Jordan) |
| 81 | Lahey Clinic – Burlington Campus |
| 83 | Lawrence General Hospital |
| 85 | Lowell General Hospital – Main Campus |
| 88 | Martha's Vineyard Hospital |
| 89 | Massachusetts Eye and Ear Infirmary |
| 91 | Massachusetts General Hospital |
| 97 | Milford Regional Medical Center |
| 98 | Beth Israel Deaconess - Milton |
| 99 | Steward - Morton Hospital |
| 100 | Mount Auburn Hospital |
| 101 | Nantucket Cottage Hospital |
| 103 | New England Baptist Hospital |
| 104 | Tufts-New England Medical Center |
| 105 | Newton-Wellesley Hospital |

| ORGID | ORGANIZATION NAME |
|-------|---|
| 106 | Baystate Noble Hospital |
| 109 | Lahey Health - Addison Gilbert Campus |
| 110 | Lahey Health - Beverly Campus |
| 114 | Steward - Saint Anne's Hospital |
| 115 | Lowell General - Saints Campus |
| 116 | North Shore Medical Center, Inc. - Salem Campus |
| 118 | Mercy Medical Center - Providence Behavioral Health Hospital Campus |
| 119 | Mercy Medical Center - Springfield Campus |
| 122 | South Shore Hospital |
| 123 | Southcoast Hospitals Group - Charlton Memorial Campus |
| 124 | Southcoast Hospitals Group - St. Luke's Campus |
| 126 | Steward - St. Elizabeth's Medical Center |
| 127 | Saint Vincent Hospital |
| 130 | UMass Memorial Medical Center - Memorial Campus |
| 131 | UMass Memorial Medical Center - University Campus |
| 132 | Health Alliance - Clinton Hospital |
| 133 | Marlborough Hospital |
| 138 | Lahey Winchester Hospital |
| 139 | Baystate Wing Memorial Hospital |
| 141 | Melrose-Wakefield Healthcare - Melrose-Wakefield Hospital Campus |
| 142 | Cambridge Health Alliance - Everett (Whidden) Hospital Campus |
| 143 | Cambridge Health Alliance - Somerville Hospital Campus |
| 145 | Southcoast Health- Tobey Campus |
| 457 | MetroWest Medical Center - Leonard Morse Campus |
| 4448 | Lahey Medical Center, Peabody |
| 4460 | Steward - Good Samaritan Medical Center - Norcap Lodge Campus |
| 6693 | Shriners Hospital for Children – Boston |
| 11466 | Steward - Holy Family at Merrimack Valley |

| ORGID | ORGANIZATION NAME |
|-------|---|
| 11467 | Steward - Nashoba Valley Medical Center |
| 11718 | Shriner's Children's Hospital - Springfield |
| 19835 | UMass Memorial Field Hospital |
| 19839 | Lowell - UMass Field Hospital |
| 20201 | UMass Hospital at Home |

Groupers

For data user convenience, CHIA performs data grouping using the 3M™ APR-DRG grouper and the CMS grouper. The All Patient Refined DRGs (3M APR-DRG) classifies patients into diagnostic groups based on severity of illness and risk of mortality to provide an accurate means of adjusting for hospital case mix differences for evaluating inpatient care across all hospitals. For FY2021 HIDD, CHIA has produced five versions of the Grouper: APR-DRG versions 20.0, 26.1, 30.0, 34.0, 36.0 and CMS version 38.0.

For the APR-DRG version 20.0, a discharge DRG, MDC, ROM and SOI are generated. For APR-DRG versions 26.1, 30.0, 34.0 and 36.0, both an admission and discharge DRG, MDC, ROM and SOI are generated. For the CMS DRG version 38.0, a discharge DRG and MDC are generated.

- The **Diagnosis Related Group (DRG)** categorizes patients with clinically similar medical diagnosis, severity of illness and risk of mortality to relate a hospital's case mix to the resource demands and costs experienced by the hospital.
- The **Major Diagnostic Categories (MDC)** within each DRG version parses the DRGs into 25 mutually exclusive categories. Each category relates to a physical system, disease, or contributing health factor.
- **Risk of mortality (ROM)** is a clinical subclass indicating likelihood of dying. The ROM subclass data elements can be found in the ROM lookup table. In the APR-DRG system, a patient is assigned four distinct descriptors for ROM, numbered sequentially from 0 to 4. Researchers seeking to evaluate patient mortality, should use the 3M™ APR-DRGs in conjunction with the ROM subclass.
- **Severity of Illness (SOI)** relates to the extent of physiologic decompensation or systematic loss of organ function experienced by the patient. In the APR-DRG system, a patient is assigned four distinct descriptors for SOI, numbered sequentially from 0 to 4. The SOI subclass data elements can be found in the SOI lookup table. CHIA recommends that researchers seeking to evaluate resource use or establishing patient care guidelines use the 3M™ APR-DRGs in conjunction with SOI subclass.

Note: The 3M™ All Patient Refined DRG Software and its logic are proprietary to 3M Company and are subject to the terms and conditions of the software licensing agreement between 3M and Center for Health Information and Analysis.

Organization of the Diagnosis and Procedure Codes

For FY2021, CHIA organized the procedure and diagnosis fields into three tables—Discharge, Diagnosis, and Procedure.

All secondary diagnosis and procedure codes are in the Diagnosis and Procedure tables, respectively. Indicator codes are available for each secondary diagnosis or procedure code and are based on the order in which those codes were sent to CHIA. In the indicator code field, an 'A' is used to designate admitting diagnosis and an indicator code of 'D' designates discharge diagnosis, all other diagnosis codes have an indicator of 'S' for secondary diagnosis. In the associated indicator code field, the admitting and discharge diagnosis have a code of '0' and secondary diagnosis have sequential numeric codes based on the order submitted. Discharges reached a maximum of 111 secondary diagnosis codes, and a maximum of 149 secondary procedure codes.

Diagnoses and procedures are ordered as submitted to CHIA. CHIA does not require the order of diagnoses and procedures to be medically relevant. CHIA does not affirm or confirm the medical relevancy of the principal diagnosis, procedure, or external cause codes reported in the discharge data.

Organization Identifiers (OrgID)

FY2021 HIDD contains four organization identifier fields. These fields are a CHIA assigned unique code for each Massachusetts facility:

- **Massachusetts Filer Organization ID (IdOrgFiler):** The Organization ID for the facility that submitted the Inpatient discharge data to CHIA.
- **Massachusetts Site Organization ID (IdOrgSite):** The Organization ID for the site where the patient received Inpatient care.
- **Massachusetts Hospital Organization ID (IdOrgHosp):** The Organization ID for the main hospital affiliation. For example, 27(Cambridge Health Alliance) is the IdOrgHosp for the IdOrgSite 142 (Everett Hospital).
- **Massachusetts Transfer Hospital Organization ID (IdOrgTransfer):** The Organization ID for the facility from which a patient is transferred. If the patient is transferred from outside of Massachusetts, the IdOrgTransfer will be 9999999.

Age LDS

If the date of birth and admission date are valid, then CHIA calculated Age LDS in years. The calculation was as follows:

- Age is calculated to be the rounded integer value – of the difference between Date of Birth and Discharge date.
- If Age is valid and < 1 year, then AgeLDS = 0.
- If Age is valid and > 0 and < 90 years, then AgeLDS = a year between 1 and 89
- If Age is valid and > 89 and <= 115, then AgeLDS = 999
- If Age is missing, negative value or value > 115, then AgeLDS = null

Discretion should be used whenever a questionable age assignment is noted. Researchers are advised to consider other data elements in their analysis of this field.

Data Limitations

The HIDD is derived from patient discharge summaries, which can be traced to information entered by admitting and attending health professionals into the medical record. The quality of the HIDD is dependent upon facility data collection policies and coding practices of the medical record staff.

Information may not be entirely consistent from facility to facility due to differences in:

- Collection and verification of patient supplied information before or at admission,
- Update to information following forensic autopsy,
- Medical record coding, consistency, and/or completeness,
- Extent of facility data processing capabilities,
- Flexibility of facility data processing systems,
- Capacity of financial processing system to record late occurring charges on CHIA's electronic submission,
- Non-comparability of data collection and reporting.

Historical Data Elements

Users of multiple years of Case Mix data should be careful when merging multiple years of data. In order to maintain consistency across years, it may be necessary to merge some codes used for specific data elements. For example, keep in mind the transition from ICD-9-CM to ICD-10-CM/PCS which began in FY2015 (October 2015) and the change in race/ethnicity coding rubric which began in FY2007 (October 2007). Users with questions about new data elements or changes in coding from year to year should contact CHIA at CaseMix.data@chiamass.gov.

Data Dictionary

FY2021 HIDD data dictionary provides metadata for the following attributes:

- *Data Element*: name as it appears in the file
- *Short description*: to help users understand what the element contains
- *Primary table*: the main table (MS ACCESS) or file (SAS) that the data element will appear in
- *Linking tables*: other tables that contain the data element
- *Availability to users*: indicates if the data is available to all users (“CORE”), a buy-up (“LDS”), or available only to government “Government”
- *Type of Data*: describes if the data element is Categorical, Ordinal, an Identifier, Continuous, Date/Time, or Open Text
- *Format*: indicates if the data is formatted in a specific fashion
- *CHIA derived or calculated*: indicates if the field was created by CHIA
- *Reference table*: indicates if a Categorical data element has set of valid values that are associated with other information
- *Description*: is a longer explanation of the data element and its limitations
- *Summary statistics*: links to frequencies or means for that data element

Users of the data with questions about any specific data element should contact CHIA at CaseMix.data@chiamass.gov.

AccommodationsID

| | |
|-------------------------------|------------------------|
| Short Description | CHIA created field. |
| Primary Table: | Service |
| Linking Tables: | |
| Availability to Users: | CORE |
| Type of Data: | Identifier |
| CHIA Derived: | No |
| Description: | Chia processing field. |
| Reference Table: | No |

Active

| | |
|-------------------------------|--|
| Short Description | CHIA indicator of quarterly submission status. |
| Primary Table: | SubmissionLog |
| Linking Tables: | |
| Availability to Users: | CORE |
| Type of Data: | Categorical |
| Format: | |
| Length: | |
| CHIA Derived: | No |
| Description: | Chia processing field. |
| Reference Table: | No |

AdmissionDate

| | |
|-------------------------------|---|
| Short Description | The date the patient was admitted to the hospital as an inpatient for this episode of care. |
| Primary Table: | Discharge |
| Linking Tables: | |
| Availability to Users: | LDS |
| Type of Data: | Date |
| CHIA Derived: | No |
| Description: | The date the patient was admitted to the hospital as an inpatient for this episode of care. |
| Reference Table: | No |

AdmissionDayOfWeek

| | |
|--------------------------|---|
| Short Description | Week day that patient was admitted to hospital. |
| Primary Table: | Discharge |
| Linking Tables: | |

| | |
|-------------------------------|---|
| Availability to Users: | CORE |
| Type of Data: | Date |
| CHIA Derived: | No |
| Description: | Week day that patient was admitted to hospital. |
| Reference Table: | No |

AdmissionMonth

| | |
|-------------------------------|--|
| Short Description | Month in which patient was admitted to hospital. |
| Primary Table: | Discharge |
| Linking Tables: | |
| Availability to Users: | LDS |
| Type of Data: | Date |
| CHIA Derived: | No |
| Description: | Month in which patient was admitted to hospital derived by CHIA from the Admission Date. |
| Reference Table: | No |

AdmissionSourceCode1, AdmissionSourceCode2

| | |
|-------------------------------|--|
| Short Description | How a patient entered the hospital. |
| Primary Table: | Discharge |
| Linking Tables: | |
| Availability to Users: | CORE |
| Type of Data: | Categorical |
| Format: | |
| Length: | 1 |
| CHIA Derived: | No |
| Description: | These two codes indicate the source of originating, referring or transferring the patient to inpatient admissions. Reporting patterns for the source of stay data element may vary widely. |
| Reference Table: | Source of Admission |
| Summary Statistics: | AdmissionSourceCode1 Frequency |

AdmissionType

| | |
|-------------------------------|------------------|
| Short Description | Admission status |
| Primary Table: | Discharge |
| Linking Tables: | |
| Availability to Users: | CORE |
| Type of Data: | Categorical |
| CHIA Derived: | No |

Description: A standardized category of the patient's status upon admission to the hospital.

Reference Table: Yes

| CODE | DESCRIPTION |
|------|-------------------------|
| 1 | Emergency |
| 2 | Urgent |
| 3 | Elective |
| 4 | Newborn |
| 5 | Information Unavailable |

Summary Statistics: AdmissionType Frequency

AdmissionYear

Short Description Year in which patient was admitted to hospital.

Primary Table: Discharge

Linking Tables:

Availability to Users: CORE

Type of Data: Date

CHIA Derived: No

Description: Year in which patient was admitted to hospital derived by CHIA from the Admission Date.

Reference Table: No

ADM_DRG (APR261, APR300, APR340, APR360)

Short Description Admitting diagnosis related group.

Primary Table: Grouper – APR 261, Grouper – APR 300, Grouper – APR 340, Grouper – APR 360

Linking Tables: Discharge

Availability to Users: CORE

Type of Data: Categorical

Format: VARCHAR (NNN)

Length: 3

CHIA Derived:

Description: Standard DRG based on admission diagnoses.

Reference Table: Standard 3M Grouper Values

ADM_MDC (APR261, APR300, APR340, APR360)

| | |
|-------------------------------|---|
| Short Description | Admitting major diagnostic category. |
| Primary Table: | Grouper – APR 261, Grouper – APR 300, Grouper – APR 340, Grouper – APR 360 |
| Linking Tables: | Discharge |
| Availability to Users: | CORE |
| Type of Data: | Categorical |
| Format: | VARCHAR (NN) |
| Length: | 2 |
| CHIA Derived: | |
| Description: | Admission MDC should classify the patient, based on Admission diagnoses and procedures, into a standard major diagnostic group. |
| Reference Table: | Standard 3M Grouper Values |

ADM_RCD (APR261, APR300, APR340, APR360)

| | |
|-------------------------------|--|
| Short Description | Null grouper field. |
| Primary Table: | Grouper – APR 261, Grouper – APR 300, Grouper – APR 340, Grouper – APR 360 |
| Linking Tables: | Discharge |
| Availability to Users: | CORE |
| Type of Data: | Categorical |
| Format: | VARCHAR (NN) |
| Length: | 2 |
| CHIA Derived: | |
| Description: | DRG record error indicator, '00' indicates valid DRG |
| Reference Table: | |

ADM_ROM (APR261, APR300, APR340, APR260)

| | |
|-------------------------------|--|
| Short Description | Admitting risk of mortality. |
| Primary Table: | Grouper – APR 261, Grouper – APR 300, Grouper – APR 340, Grouper 360 |
| Linking Tables: | Discharge |
| Availability to Users: | CORE |
| Type of Data: | Categorical |
| Format: | VARCHAR (N) |
| Length: | 1 |
| CHIA Derived: | |
| Description: | Admitting ROM should classify the patient, based on admitting diagnoses and procedures, into a standard category of clinical risk. |
| Reference Table: | Standard 3M Grouper Values |

ADM_SOI (APR261, APR300, APR340, APR360)

| | |
|-------------------------------|---|
| Short Description | Admitting severity of illness. |
| Primary Table: | Grouper – APR 261, Grouper – APR 300, Grouper – APR 340, Grouper - APR 360 |
| Linking Tables: | |
| Availability to Users: | CORE |
| Type of Data: | Categorical |
| Format: | VARCHAR (N) |
| Length: | 1 |
| CHIA Derived: | |
| Description: | Admitting SOI should classify the patient, based on admitting diagnoses and procedures, into a standard category of illness severity. |
| Reference Table: | Standard 3M Grouper Values |

AgeLDS

| | |
|-------------------------------|--|
| Short Description | Age of the patient. |
| Primary Table: | Discharge |
| Linking Tables: | |
| Availability to Users: | CORE |
| Type of Data: | Continuous |
| Format: | Integer |
| Length: | 3 |
| CHIA Derived: | Yes |
| Description: | Age of the patient as calculated by CHIA. Rounded up to the nearest integer. Age is zero when patient is younger than 1 year and age is 999 when patient is older than 89 years. Discretion should be used whenever a questionable age assignment is noted. Researchers are advised to consider other data elements in their analysis of this field. |
| Reference Table: | No |
| Summary Statistics: | AgeLDS Mean |

AssociatedIndicator

| | |
|-------------------------------|--|
| Short Description | Indicates the order in which facilities submitted Diagnosis Codes. |
| Primary Table: | Diagnosis Code |
| Linking Tables: | Discharge |
| Availability to Users: | CORE |
| Type of Data: | Continuous |
| Format: | Integer |
| Length: | 3 |
| CHIA Derived: | No |
| Description: | Order in which diagnosis code was submitted to CHIA. |

Reference Table: No

AttendingPhysicianNumber

Short Description Medical License Number of the Attending physician.
Primary Table: Discharge
Linking Tables:
Availability to Users: LDS
Type of Data: Identifier
Format: VARCHAR
Length: 6
CHIA Derived: No
Description: The lead physician supervising the care of the patient.
Reference Table: Massachusetts Department of Health Board of Registration in Medicine license numbers

Birthweight

Short Description The specific birth weight of the newborn recorded in grams.
Primary Table: Discharge
Linking Tables:
Availability to Users: CORE
Type of Data: Continuous
Format: Integer
Length: 4
CHIA Derived: No
Description: Must be present if type of admission is 'newborn'
Reference Table: No

ClaimCertificateRID

Short Description Medicaid Recipient Identification Number.
Primary Table: Discharge
Linking Tables:
Availability to Users: GOV-SPEC
Type of Data: Date
Format: Text
Length: 12
CHIA Derived: No
Description:
Reference Table: No

CMS380_DIS_DRG

| | |
|-------------------------------|---|
| Short Description | CMS 38.0 Grouper - Discharge diagnosis related group |
| Primary Table: | Grouper – CMS |
| Linking Tables: | Discharge |
| Availability to Users: | CORE |
| Type of Data: | Categorical |
| Format: | VARCHAR(NNN) |
| Length: | 3 |
| CHIA Derived: | |
| Description: | Discharge DRG should classify the patient, based on discharge diagnoses and procedures, into a standard major diagnostic group. |
| Reference Table: | Centers for Medicare and Medicaid reference table: https://www.cms.gov/icd10m/version38-0-R1-fullcode-cms/fullcode_cms/P0002.html |

CMS380_DIS_MDC

| | |
|-------------------------------|---|
| Short Description | CMS 38.0 Grouper - Discharge major diagnostic category |
| Primary Table: | Grouper – CMS |
| Linking Tables: | Discharge |
| Availability to Users: | CORE |
| Type of Data: | Categorical |
| Format: | VARCHAR (NN) |
| Length: | 2 |
| CHIA Derived: | |
| Description: | Discharge MDC classifies the patient DRG into one of 25 standard major diagnostic groups. |
| Reference Table: | Centers for Medicare and Medicaid reference table: https://www.cms.gov/icd10m/version38-0-R1-fullcode-cms/fullcode_cms/P0002.html |

ConditionPresent

| | |
|-------------------------------|--|
| Short Description | Flags whether the diagnosis was present on admission. |
| Primary Table: | Diagnosis |
| Linking Tables: | |
| Availability to Users: | CORE |
| Type of Data: | Categorical |
| Format: | VARCHAR |
| Length: | 1 |
| CHIA Derived: | No |
| Description: | Indicates the onset of a diagnosis preceded or followed by admission. There is a POA indicator for every diagnosis and external cause-code. |

Reference Table: Condition Present

ConditionPresentECode

Short Description: Flags whether the external cause-code was present on admission.
Primary Table: Diagnosis
Linking Tables:
Availability to Users: CORE
Type of Data: Categorical
Format: VARCHAR
Length: 1
CHIA Derived: No
Description: Indicates the onset of a diagnosis preceded or followed by admission. There is a POA indicator for every diagnosis and external cause-code.
Reference Table: Condition Present

DaysBetweenStays

Short Description: Count of stays between admissions.
Primary Table: Diagnosis
Linking Tables:
Availability to Users: CORE
Type of Data: Continuous
Format: Integer
Length: 4
CHIA Derived:
Description: This CHIA calculated field indicates the number of days between each admission and each consecutive admission for applicable patients. That is, a match with the UHIN only is used to make a determination that a patient has been readmitted.
Reference Table: No

DHCFPSubmissionFile

Short Description: CHIA created field
Primary Table: SubmissionLog
Linking Tables:
Availability to Users: CORE
Type of Data: Identifier
Format: VARCHAR
Length: 6
CHIA Derived: No
Description: CHIA processing field

Reference Table: No

DiagnosisCode

Short Description: ICD-10-CM code for each diagnosis reported by the facility.
Primary Table: Diagnosis
Linking Tables: Discharge
Availability to Users: CORE
Type of Data: Categorical
Format: VARCHAR
Length: 7
CHIA Derived: No
Description: ICD-10-CM Associated Diagnosis. Excludes the decimal point. May be an External Cause Code or an Associated or Supplemental External Cause Code IF the Principal External Cause Code is present. Associated External Cause Codes may be: ICD-10-CM (V00-Y84.9) and supplemental codes: (Y90-Y99) (place of injury, activity, status).
Reference Table: Standard ICD-10-CM Diagnosis Codes

DIS_DRG (APR200, APR261, APR300, APR340, APR360)

Short Description: Discharge diagnosis related group.
Primary Table: Grouper – APR 200, Grouper – APR 261, Grouper – APR 300, Grouper – APR 340, Grouper – APR 360
Linking Tables:
Availability to Users: CORE
Type of Data: Categorical
Format: VARCHAR (NNN)
Length: 3
CHIA Derived:
Description: Standard DRG based on Discharge diagnoses.
Reference Table: Standard 3M Grouper Values

DIS_MDC (APR200, APR261, APR300, APR340, APR360)

Short Description: Discharge major diagnostic category.
Primary Table: Grouper – APR 200, Grouper – APR 261, Grouper – APR 300, Grouper – APR 340, Grouper - APR 360
Linking Tables:
Availability to Users: CORE
Type of Data: Categorical
Format: VARCHAR (NN)
Length: 2

CHIA Derived:

Description: Discharge MDC should classify the patient, based on Discharge diagnoses and procedures, into a standard major diagnostic group.

Reference Table: Standard 3M Grouper Values

DIS_RCD (APR200, APR261, APR300, APR340, APR360)

Short Description: Null grouper field.

Primary Table: Grouper – APR 200, Grouper – APR 261, Grouper – APR 300, Grouper – APR 340, Grouper - APR360

Linking Tables: Discharge

Availability to Users: CORE

Type of Data: Categorical

Format: VARCHAR (NN)

Length: 2

CHIA Derived:

Description: DRG record error indicator, '00' indicates valid DRG

Reference Table:

DIS_ROM (APR200, APR261, APR300, APR340, APR360)

Short Description: Discharge risk of mortality

Primary Table: Grouper – APR 200, Grouper – APR 261, Grouper – APR 300, Grouper – APR 340, Grouper - APR 360

Linking Tables: Discharge

Availability to Users: CORE

Type of Data: Categorical

Format: VARCHAR(N)

Length: 1

CHIA Derived:

Description: Discharge ROM should classify the patient, based on discharge diagnoses and procedures, into a standard category of mortality risk.

Reference Table: Standard 3M Grouper Values

DIS_SOI (APR200, APR261, APR300, APR340, APR360)

Short Description: Discharge severity of illness.

Primary Table: Grouper – APR 200, Grouper – APR 261, Grouper – APR 300, Grouper – APR 340, Grouper - APR360

Linking Tables: Discharge

Availability to Users: CORE

Type of Data: Categorical

| | |
|-------------------------|---|
| Format: | VARCHAR |
| Length: | 1 |
| CHIA Derived: | |
| Description: | Discharge SOI should classify the patient, based on discharge diagnoses and procedures, into a standard category of illness severity. |
| Reference Table: | Standard 3M Grouper Values |

DischargeDate

| | |
|-------------------------------|---|
| Short Description | The date the patient was discharged from inpatient status in the hospital for this episode of care. |
| Primary Table: | Discharge |
| Linking Tables: | |
| Availability to Users: | LDS |
| Type of Data: | Date |
| Format: | YYYYMMDD |
| Length: | 8 |
| CHIA Derived: | No |
| Description: | Calendar date of discharge from inpatient status. |
| Reference Table: | No |

DischargeDayOfWeek

| | |
|-------------------------------|--|
| Short Description | Day of the month on which the patient was discharged from inpatient status. |
| Primary Table: | Discharge |
| Linking Tables: | |
| Availability to Users: | CORE |
| Type of Data: | Date |
| Format: | VARCHAR |
| Length: | 3 |
| CHIA Derived: | No |
| Description: | Calendar day of discharge from inpatient status. Sun, Mon, Tue, Wed, Thu, Fri, Sat |
| Reference Table: | No |

DischargeMonth

| | |
|-------------------------------|--|
| Short Description | Month in which patient was discharged from Inpatient status. |
| Primary Table: | Discharge |
| Linking Tables: | |
| Availability to Users: | LDS |
| Type of Data: | Date |
| Format: | YYYYMM |

| | |
|-------------------------|--|
| Length: | 6 |
| CHIA Derived: | No |
| Description: | Year and Month of discharge from inpatient status. |
| Reference Table: | No |

DischargePassed

| | |
|-------------------------------|--------------------|
| Short Description | CHIA derived field |
| Primary Table: | Discharge |
| Linking Tables: | |
| Availability to Users: | CORE |
| Type of Data: | Categorical |
| Format: | VARCHAR |
| Length: | 1 |
| CHIA Derived: | No |
| Description: | |
| Reference Table: | No |

DischargeYear

| | |
|-------------------------------|---|
| Short Description | Year in which patient was discharged from hospital. |
| Primary Table: | Discharge |
| Linking Tables: | |
| Availability to Users: | CORE |
| Type of Data: | Date |
| Format: | YYYY |
| Length: | 4 |
| CHIA Derived: | No |
| Description: | |
| Reference Table: | No |

DNRStatus

| | |
|-------------------------------|---|
| Short Description | Indicates whether there is an order not to resuscitate the patient. |
| Primary Table: | Discharge |
| Linking Tables: | |
| Availability to Users: | GOV |
| Type of Data: | Categorical |
| Format: | VARCHAR |
| Length: | 1 |
| CHIA Derived: | |

Description: A status indicating that the patient had a physician order not to resuscitate or the patient had a status of receiving palliative care only. Do not resuscitate status means not to revive from potential or apparent death or that a patient was being treated with comfort measures only.

Reference Table:

| CODE | DESCRIPTION |
|------|----------------------------------|
| 1 | DNR order written |
| 2 | Comfort measures only |
| 3 | No DNR order or measures ordered |

Summary Statistics: DNRStatus Frequency

Ecode

Short Description: ICD-10-CM External Cause code.
Primary Table: Discharge
Linking Tables:
Availability to Users: CORE
Type of Data: Categorical
Format: VARCHAR
Length: 7
CHIA Derived: No
Description: International Classification of Diseases, 10th Revision, Clinical Modification (ICD) V-codes, and or W-codes, X-codes, or Y-codes (V00-Y99) are used to categorize events and conditions describing the external cause of injuries, poisonings, and adverse effects. Codes adequate to describe the external cause are reported for discharges with a principal and/or other diagnoses classified as injuries or poisonings of the ICD-10-CM (S00-T88) or where the ICD-10-CM codes demonstrate that an additional E-code is appropriate. The principal external cause of injury code shall describe the mechanism that caused the most severe injury, poisoning, or adverse effect. Additional codes used to report place of occurrence or to completely describe the mechanism(s) that contributed to the injury or poisoning or the causal circumstances surrounding any injury or poisoning are reported in the Diagnosis table. This data element describes the principal external cause of injuries, poisonings, and adverse effects using ICD-10-CM codes. In addition to the dedicated E-Code field, facilities record additional E-Codes in the associated diagnosis fields for conditions having multiple causes.

Reference Table: Standard ICD-10-CM Diagnosis Codes

EDFlagCode

Short Description: Indicates if inpatient admission began in the hospital's emergency department.

| | |
|-------------------------------|--|
| Primary Table: | Discharge |
| Linking Tables: | |
| Availability to Users: | CORE |
| Type of Data: | Categorical |
| Format: | VARCHAR (N) |
| Length: | 1 |
| CHIA Derived: | No |
| Description: | Indicates if inpatient admission began in the hospital's emergency department. |
| Reference Table: | |

| CODE | DESCRIPTION |
|------|--|
| 0 | Not admitted from the ED, no ED visit reflected in this record |
| 1 | Not admitted from the ED, but ED visit(s) reflected in this record |
| 2 | Admitted from the ED |

Summary Statistics: EDFlagCode Frequency

EmergencyDepartmentRegistrationDate

| | |
|-------------------------------|---|
| Short Description | Date of patient registration from the hospital's emergency department |
| Primary Table: | Discharge |
| Availability to Users: | GOV |
| Type of Data | Date |
| Format | CCYYMMDD |

EmergencyDepartmentRegistrationTime

| | |
|-------------------------------|---|
| Short Description | Time of patient registration from the hospital's emergency department |
| Primary Table: | Discharge |
| Availability to Users: | GOV |
| Type of Data: | Date/Time |
| Format | Military Time ranging from 0000 to 2359 |

EmergencyDepartmentDischargeDate

| | |
|-------------------------------|--|
| Short Description | Date of patient discharge from the hospital's emergency department |
| Primary Table: | Discharge |
| Availability to Users: | GOV |
| Type of Data: | Date |
| Format | CCYYMMDD |

EmergencyDepartmentDischargeTime

| | |
|-------------------------------|--|
| Short Description | Time of patient discharge from the hospital's emergency department |
| Primary Table: | Discharge |
| Availability to Users: | GOV |
| Type of Data: | Date/Time |
| Format | Military Time ranging from 0000 to 2359 |

EmployerZipCode5

| | |
|-------------------------------|-------------------------------------|
| Short Description | ZIP Code of the patient's employer. |
| Primary Table: | |
| Linking Tables: | Discharge |
| Availability to Users: | GOV |
| Type of Data: | ZIP Code |
| Format: | VARCHAR |
| Length: | 5 |
| CHIA Derived: | No |
| Description: | ZIP Code of the patient's employer. |
| Reference Table: | No |

ErrorCategory

| | |
|-------------------------------|--|
| Short Description | Indicates the error on the discharge record. |
| Primary Table: | ErrorLog |
| Linking Tables: | Organization |
| Availability to Users: | CORE |
| Type of Data: | Categorical |
| Format: | VARCHAR |
| Length: | 50 |
| CHIA Derived: | Yes |
| Description: | CHIA flag. Used for processing. |
| Reference Table: | No |

ErrorDescription

| | |
|-------------------------------|---|
| Short Description | Standardized Description of the reported error. |
| Primary Table: | ErrorLog |
| Linking Tables: | Organization |
| Availability to Users: | CORE |
| Type of Data: | Categorical |
| Format: | VARCHAR |

Length: 255
CHIA Derived: Yes
Description: CHIA flag. Used for processing.
Reference Table: No

Ethnicity 1, Ethnicity 2

Short Description Standardized, facility reported ethnicity.
Primary Table: Discharge
Linking Tables:
Availability to Users: LDS
Type of Data: Categorical
Format: VARCHAR
Length: 6
CHIA Derived: No
Description: Primary (Ethnicity 1) or Secondary (Ethnicity 2) ethnicity as reported by the provider. CHIA’s Provider community utilizes the full list of standard ethnicity codes, per the Center for Disease Control (CDC) https://www.cdc.gov/nchs/data/dvs/Race_Ethnicity_CodeSet.Pdf and the specific codes listed below.

Reference Table:

| CODE | DESCRIPTION |
|--------|-----------------------|
| AMERCN | American |
| BRAZIL | Brazilian |
| CVERDN | Cape Verdean |
| CARIBI | CaribbeanIsland |
| PORTUG | Portuguese |
| RUSSIA | Russian |
| EASTEU | Eastern European |
| OTHER | Other Ethnicity |
| UNKNOW | Unknown/Not Specified |

HispanicIndicator

Short Description Indicates whether patient was Hispanic.
Primary Table: Discharge
Linking Tables:
Availability to Users: CORE
Type of Data: Categorical

Format: VARCHAR
Length: 1
CHIA Derived: No
Description: A flag for patients of Hispanic/Latino/Spanish culture or origin regardless of race.
Reference Table: Yes

| CODE | DESCRIPTION |
|------|---|
| Y | Patient is Hispanic/Latino/Spanish. |
| N | Patient is not Hispanic/Latino/Spanish. |

Summary Statistics: HispanicIndicator Frequency

HomelessIndicator

Short Description: Indicates whether the patient was homeless.
Primary Table: Discharge
Linking Tables:
Availability to Users: CORE
Type of Data: Categorical
Format: VARCHAR
Length: 1
CHIA Derived: No
Description: This flag indicates that the patient was homeless at the time of visit.
Reference Table: Yes

| CODE | DESCRIPTION |
|------|--------------------------------------|
| Y | Patient is known to be homeless. |
| N | Patient is not known to be homeless. |

Summary Statistics: HomelessIndicator Frequency

HospitalBillNo

Short Description: Unique patient billing record.
Primary Table: Discharge
Linking Tables:
Availability to Users: GOV-SPEC
Type of Data: Identifier
Format: VARCHAR
Length: 17

CHIA Derived: No
Description: Facility unique number associated with all billing for the visit.
Reference Table: No

ICD Indicator

Short Description ICD version
Primary Table: Discharge
Linking Tables:
Availability to Users: CORE
Type of Data: Categorical
Format: VARCHAR
Length: 1
CHIA Derived: No
Description: Indicates if the diagnoses, E-codes, and procedure codes are ICD-10
Reference Table:

| CODE | DESCRIPTION |
|------|---|
| 0 | Indicates the codes in the discharge are ICD-10 |

IdOrgFiler

Short Description ID number of the facility that submitted Inpatient Discharges.
Primary Table: Discharge
Linking Tables: SubmissionLog
 ErrorLog
 Organization
Availability to Users: CORE
Type of Data: Identifier
Format: Integer
Length: 8
CHIA Derived: No
Description: The Organization ID for the facility that submitted the Inpatient discharge data to CHIA.
Reference Table: Organization

IdOrgHosp

Short Description Facility identifier.
Primary Table: Discharge
Linking Tables: Organization
Availability to Users: CORE

| | |
|-------------------------|--|
| Type of Data: | Identifier |
| Format: | Integer |
| Length: | 8 |
| CHIA Derived: | No |
| Description: | The Organization ID for the main facility affiliation. |
| Reference Table: | Organization |

IdOrgSite

| | |
|-------------------------------|---|
| Short Description | Facility identifier. |
| Primary Table: | Discharge |
| Linking Tables: | Organization |
| Availability to Users: | CORE |
| Type of Data: | Identifier |
| Format: | Integer |
| Length: | 8 |
| CHIA Derived: | No |
| Description: | The Organization ID for the site where the patient received Inpatient care. |
| Reference Table: | Organization |

IdOrgTransfer

| | |
|-------------------------------|---|
| Short Description | Indicates where patient was transferred from. |
| Primary Table: | Discharge |
| Linking Tables: | Organization |
| Availability to Users: | CORE |
| Type of Data: | Identifier |
| Format: | Integer |
| Length: | 8 |
| CHIA Derived: | No |
| Description: | Organization ID for the facility from which a patient is transferred. If the patient is transferred from outside of Massachusetts, the IdOrgTransfer will be 9999999. |
| Reference Table: | Organization |

Indicator - Diagnosis

| | |
|-------------------------------|---|
| Short Description | Indicates if the diagnosis was primary, secondary, admitting, or discharge. |
| Primary Table: | Diagnosis |
| Linking Tables: | Discharge |
| Availability to Users: | CORE |
| Type of Data: | Categorical |
| Format: | VARCHAR |

Length: 1
CHIA Derived:
Description: Indicates if the diagnosis or procedure was primary, secondary, admitting, or discharge.

Reference Table:

| CODE | DESCRIPTION |
|------|-------------|
| A | Admitting |
| D | Discharge |
| P | Principal |
| S | Secondary |

Indicator - Procedure

Short Description: Indicates if the submitted Procedure Code was secondary
Primary Table: Procedure
Linking Tables: Discharge
Availability to Users: CORE
Type of Data: Categorical
Format: VARCHAR
Length: 1
CHIA Derived: No
Description: Order in which procedure code was submitted to CHIA
Reference Table: No

LeaveOfAbsenceDays

Short Description: Days patient was absent from hospital stay during admission/discharge period.
Primary Table: Discharge
Linking Tables:
Availability to Users: CORE
Type of Data: Continuous
Format: Integer
Length: 4
CHIA Derived: No
Description: If the patient left the hospital during the stay, then this field must indicate how many days the patient was absent during the total length of stay.
Reference Table: No

LegCHIAAttendingPhysicianNumber

| | |
|-------------------------------|--|
| Short Description | ID of the Attending physician |
| Primary Table: | Discharge |
| Linking Tables: | |
| Availability to Users: | LDS |
| Type of Data: | Identifier |
| Format: | VARCHAR |
| Length: | 6 |
| CHIA Derived: | No |
| Description: | Physician Board of Registration of Medicine License Number |
| Reference Table: | External reference table Massachusetts Department of Public Health Board of Registration in Medicine license numbers |

LegCHIAOperatingPhysicianP

| | |
|-------------------------------|--|
| Short Description | ID of the primary Procedure Physician |
| Primary Table: | Discharge |
| Linking Tables: | |
| Availability to Users: | LDS |
| Type of Data: | Identifier |
| Format: | VARCHAR |
| Length: | 6 |
| CHIA Derived: | No |
| Description: | Physician Board of Registration of Medicine License Number |
| Reference Table: | External reference table Massachusetts Department of Public Health Board of Registration in Medicine license numbers |

LegCHIAOperatingPhysicianP1-P14

| | |
|-------------------------------|---|
| Short Description | ID of any other physician who performed a significant procedure on the patient |
| Primary Table: | Discharge |
| Linking Tables: | |
| Availability to Users: | LDS |
| Type of Data: | Identifier |
| Format: | VARCHAR |
| Length: | 6 |
| CHIA Derived: | No |
| Description: | Physician Board of Registration of Medicine License Number of Operating Physicians 1 through 14. Ordered as reported by hospital in agreement with Significant Procedures 1 through 14. |
| Reference Table: | External reference table Massachusetts Department of Public Health Board of Registration in Medicine license numbers |

LengthOfStay

| | |
|-------------------------------|--|
| Short Description | Count of days in the hospital. |
| Primary Table: | Discharge |
| Linking Tables: | |
| Availability to Users: | CORE |
| Type of Data: | Continuous |
| Format: | Integer |
| Length: | 4 |
| CHIA Derived: | Yes |
| Description: | Count of days between the Admitting and Discharge date for an Inpatient discharge. |
| Reference Table: | No |

LineNumber

| | |
|-------------------------------|-----------------------|
| Short Description | CHIA processing field |
| Primary Table: | Service |
| Linking Tables: | Service |
| Availability to Users: | CORE |
| Type of Data: | Continuous |
| Format: | Integer |
| Length: | |
| CHIA Derived: | |
| Description: | |
| Reference Table: | No |

MedicalRecordNumber

| | |
|-------------------------------|---|
| Short Description | Admission identifier assigned by the facility |
| Primary Table: | Discharge |
| Linking Tables: | |
| Availability to Users: | GOV-SPEC |
| Type of Data: | Identifier |
| Format: | VARCHAR |
| Length: | 10 |
| CHIA Derived: | No |
| Description: | The unique number assigned to each patient within the hospital that distinguishes the patient and the patient's hospital record(s) from all others in that institution. |
| Reference Table: | No |

MotherMedicalRecordNumber

| | |
|-------------------------------|---|
| Short Description | Patient's mother's unique hospital assigned identifier |
| Primary Table: | Discharge |
| Linking Tables: | |
| Availability to Users: | GOV-SPEC |
| Type of Data: | Identifier |
| Format: | VARCHAR |
| Length: | 10 |
| CHIA Derived: | No |
| Description: | The medical record number assigned within the hospital to the newborn's mother is to be reported for the newborn. The medical record number of the newborn's mother distinguishes the patient's mother and the patient's mother's hospital record(s) from all others in that institution. |
| Reference Table: | No |

MothersUHIN

| | |
|-------------------------------|--|
| Short Description | Patient's mother's unique ID. |
| Primary Table: | Discharge |
| Linking Tables: | |
| Availability to Users: | LDS |
| Type of Data: | Identifier |
| Format: | VARCHAR |
| Length: | 9 |
| CHIA Derived: | No |
| Description: | CHIA generated unique identifier of a newborn's mother. For newborns or for infants less than 1 year old, CHIA derives a unique ID for the patient's mother. This unique ID allows a newborn visit to be associated with a Mother's visit. Linkable across records and fiscal years. Each patient is given by CHIA a Unique Health Information Number (UHIN), which is a surrogate key that can link patients over time and across facilities. The data element is blank, a single dash (-) appears in the UHIN field. It is valid for facilities to report that the unique patient identifier is unknown. In these cases, the UHIN appears as '000000001'. The utility of the UHIN field is dependent on the reporting data. For a small number of facilities, little or no UHIN data exists, as these institutions failed to report patients' uniquely identified information. Other facilities reported the same data repeatedly, resulting in numerous admissions for one UHIN. In other cases, the demographic information (age, sex, etc.) was not consistent when a match did exist with the UHIN. Some explanations for this include assignment of a mother's unique identifiers to her infant or assignment of a spouse's unique identifiers to a patient. Invalid data uses the code UHIN="4". |
| Reference Table: | No |

NewBornAge

| | |
|-------------------------------|---|
| Short Description | Newborn's age in weeks at admission |
| Primary Table: | Discharge |
| Linking Tables: | |
| Availability to Users: | CORE |
| Type of Data: | Continuous |
| Format: | Integer |
| Length: | 2 |
| CHIA Derived: | Yes |
| Description: | Newborn's age in weeks at admission for infant's less than 1 year old |
| Reference Table: | No |

NumberDischargesFailed

| | |
|-------------------------------|--|
| Short Description | CHIA derived error field |
| Primary Table: | SubmissionLog |
| Linking Tables: | ErrorLog |
| Availability to Users: | CORE |
| Type of Data: | Continuous |
| Format: | Integer |
| Length: | 3 |
| CHIA Derived: | Yes |
| Description: | Number of discharge records failing submission threshold |
| Reference Table: | No |

NumberDischargesPassed

| | |
|-------------------------------|--|
| Short Description | CHIA derived error field |
| Primary Table: | SubmissionLog |
| Linking Tables: | ErrorLog |
| Availability to Users: | CORE |
| Type of Data: | Continuous |
| Format: | Integer |
| Length: | 5 |
| CHIA Derived: | Yes |
| Description: | Number of discharge records passing submission threshold |
| Reference Table: | No |

NumberOfANDs

| | |
|--------------------------|---------------------------------------|
| Short Description | Total Administratively Necessary Days |
|--------------------------|---------------------------------------|

| | |
|-------------------------------|--|
| Primary Table: | Discharge |
| Linking Tables: | |
| Availability to Users: | CORE |
| Type of Data: | Continuous |
| Format: | Integer |
| Length: | 4 |
| CHIA Derived: | No |
| Description: | The number of days which were deemed clinically unnecessary in accordance with review by the Division of Medical Assistance. |
| Reference Table: | No |

NumberOfDiagnosisCodes

| | |
|-------------------------------|--|
| Short Description | Count of diagnosis codes in a particular submission. |
| Primary Table: | Discharge |
| Linking Tables: | |
| Availability to Users: | CORE |
| Type of Data: | Continuous |
| Format: | Integer |
| Length: | 3 |
| CHIA Derived: | Yes |
| Description: | Count of diagnosis codes in a particular submission. |
| Reference Table: | No |

NumberOfDischarges

| | |
|-------------------------------|---|
| Short Description | Count of discharges in a particular submission. |
| Primary Table: | SubmissionLog |
| Linking Tables: | ErrorLog |
| Availability to Users: | CORE |
| Type of Data: | Continuous |
| Format: | Integer |
| Length: | 5 |
| CHIA Derived: | Yes |
| Description: | Count of discharges in a particular submission. |
| Reference Table: | No |

NumberOfErrors

| | |
|--------------------------|---|
| Short Description | Count of errors in a particular submission. |
| Primary Table: | ErrorLog |
| Linking Tables: | |

| | |
|-------------------------------|---|
| Availability to Users: | CORE |
| Type of Data: | Continuous |
| Format: | Integer |
| Length: | 5 |
| CHIA Derived: | Yes |
| Description: | Count of errors in a particular submission. |
| Reference Table: | No |

NumberOfProcedureCodes

| | |
|-------------------------------|--|
| Short Description | Count of procedure codes in a particular submission. |
| Primary Table: | Discharge |
| Linking Tables: | |
| Availability to Users: | CORE |
| Type of Data: | Continuous |
| Format: | Integer |
| Length: | 3 |
| CHIA Derived: | Yes |
| Description: | Count of procedure codes in a particular submission. |
| Reference Table: | No |

OperatingPhysicianPrincipal

| | |
|-------------------------------|--|
| Short Description | ID of the Primary Operating Physician |
| Primary Table: | Discharge |
| Linking Tables: | |
| Availability to Users: | LDS |
| Type of Data: | Identifier |
| Format: | VARCHAR |
| Length: | 6 |
| CHIA Derived: | No |
| Description: | Operating Physician's Board of Registration in Medicine License Number |
| Reference Table: | External reference table Massachusetts Department of Public Health Board of Registration in Medicine license numbers |

OperatingPhysicianSignificant1-14

| | |
|-------------------------------|---|
| Short Description | ID of any other physician who operated on the patient |
| Primary Table: | Discharge |
| Linking Tables: | |
| Availability to Users: | LDS |
| Type of Data: | Identifier |

| | |
|-------------------------|--|
| Format: | VARCHAR |
| Length: | 6 |
| CHIA Derived: | No |
| Description: | Physician Board of Registration of Medicine License Number of Operating Physicians 1 through 14. |
| Reference Table: | External reference table Massachusetts Department of Public Health Board of Registration in Medicine license numbers |

OrgId

| | |
|-------------------------------|---|
| Short Description | Unique identifier for facility. Linkage across tables and fiscal years. |
| Primary Table: | Organization |
| Linking Tables: | |
| Availability to Users: | CORE |
| Type of Data: | Identifier |
| Format: | Integer |
| Length: | 8 |
| CHIA Derived: | No |
| Description: | Facility specific identifier. |
| Reference Table: | Organization Table |

OrgName

| | |
|-------------------------------|---------------------------|
| Short Description | Name of facility. |
| Primary Table: | Organization |
| Linking Tables: | SubmissionLog ErrorLog |
| Availability to Users: | CORE |
| Type of Data: | Categorical |
| Format | VARCHAR |
| CHIA Derived: | No |
| Description: | Facility specific name |
| Reference Table: | No |

OtherCareGiverCode

| | |
|-------------------------------|--|
| Short Description | Indicates type of other patient caregiver. |
| Primary Table: | Discharge |
| Linking Tables: | |
| Availability to Users: | CORE |
| Type of Data: | Categorical |
| Format: | VARCHAR |

Length: 1
CHIA Derived: No
Description: This data element indicates the type of primary caregiver responsible for the patient’s care other than the attending physician, operating room physician, or nurse midwife as specified in the Regulation. Other caregiver codes include resident, intern, nurse practitioner, and physician’s assistant.

Reference Table:

| CODE | DESCRIPTION |
|------|---------------------|
| 1 | Resident |
| 2 | Intern |
| 3 | Nurse Practitioner |
| 4 | Not Used |
| 5 | Physician Assistant |

Summary Statistics:

OtherCareGiverCode Frequency

OtherEthnicity

Short Description Non-standard patient ethnicity designations.
Primary Table: Discharge
Linking Tables:
Availability to Users: GOV
Type of Data: Categorical
Format: VARCHAR
Length: 20
CHIA Derived: No
Description: Patient’s ethnicity as entered by the facility. Other ethnicity is an open text field for reporting additional ethnicities when ethnicity 1 or ethnicity 2 equals “R9”, or “Other ethnicity”.
Reference Table: No

OtherRace

Short Description Non-standard patient race designations.
Primary Table: Discharge
Linking Tables:
Availability to Users: GOV
Type of Data: Categorical
Format: VARCHAR
Length: 15
CHIA Derived: No

Description: Patient's Race as entered by the facility. Other Race is an open text field for reporting additional races when Race 1 or Race 2 equals "R9", or "Other Race".

Reference Table: No

OutpatntObsrvStayFlagCode

Short Description Indicates inpatient admission began in observation stay unit

Primary Table: Discharge

Linking Tables:

Availability to Users: CORE

Type of Data: Categorical

Format: VARCHAR

Length: 1

CHIA Derived: No

Description: Indicates inpatient admission began in observation stay unit

Reference Table: Yes

Summary Statistics: OutpatientObsrvStayFlagCode Frequency

Passed

Short Description CHIA processing field

Primary Table: SubmissionLog

Linking Tables:

Availability to Users: CORE

Type of Data: Categorical

Format: VARCHAR

Length:

CHIA Derived: No

Description:

Reference Table: No

PatientBirthDate

Short Description Patient Date of Birth

Primary Table: Discharge

Linking Tables:

Availability to Users: GOV-SPEC

Type of Data: Date

Format: YYYYMMDD

Length: 8

CHIA Derived: No

Description: Patient Date of Birth

Reference Table: No

PatientStatus

Short Description: A code indicating the patient's status upon discharge and/or the destination to which the patient was referred or transferred upon discharge.

Primary Table: Discharge

Linking Tables:

Availability to Users: CORE

Type of Data: Categorical

Format: VARCHAR

Length: 2

CHIA Derived: No

Description: This field identifies the disposition and destination of the patient after discharge from the Inpatient unit. A small percentage of records are missing the zero used to pad codes 10 thru 18. For example, the entire code might consist of the digit 7, rather than 07. A full list of codes is available in the Reference table.

Reference Table: Patient Status

PayerCode1

Short Description: Standardized Payer Source code.

Primary Table: Discharge

Linking Tables:

Availability to Users: CORE

Type of Data: Categorical

Format: VARCHAR

Length: 3

CHIA Derived: No

Description: A standardized source of payment code (different than payer code). Most MA payers are identified in advance of the payment cycle. This field captures the specific differences between those payers. The payer table is extensive.

Reference Table: Payer Source Code

PayerCode2

Short Description: Standardized Payer Source code.

Primary Table: Discharge

Linking Tables:

Availability to Users: CORE

Type of Data: Categorical

Format: VARCHAR

| | |
|-------------------------|--|
| Length: | 3 |
| CHIA Derived: | No |
| Description: | A standardized source of payment code (different than payer code). Most MA payers are identified in advance of the payment cycle. This field captures the specific differences between those payers. The payer table is extensive. |
| Reference Table: | Payer Source Code |

PeriodEndingDate

| | |
|-------------------------------|---|
| Short Description | Must be the last day of the quarter for which data is being submitted |
| Primary Table: | Discharge |
| Linking Tables: | |
| Availability to Users: | LDS |
| Type of Data: | Date |
| Format: | YYYYMMDD |
| Length: | 8 |
| CHIA Derived: | No |
| Description: | Must be the last day of the quarter for which data is being submitted |
| Reference Table: | No |

PeriodEndingMonth

| | |
|-------------------------------|---|
| Short Description | Must be the last month of the quarter for which data is being submitted |
| Primary Table: | Discharge |
| Linking Tables: | |
| Availability to Users: | LDS |
| Type of Data: | Date |
| Format: | MM |
| Length: | 2 |
| CHIA Derived: | No |
| Description: | Must be the last month of the quarter for which data is being submitted |
| Reference Table: | No |

PeriodEndingYear

| | |
|-------------------------------|--|
| Short Description | Must be the year for which data is being submitted |
| Primary Table: | Discharge |
| Linking Tables: | |
| Availability to Users: | CORE |
| Type of Data: | Date |
| Format: | YYYY |
| Length: | 4 |

CHIA Derived: No
Description: Must be the year for which data is being submitted
Reference Table: No

PeriodStartingDate

Short Description Must be the first day of the quarter for which data is being submitted
Primary Table: Discharge
Linking Tables:
Availability to Users: LDS
Type of Data: Date
Format: YYYYMMDD
Length: 8
CHIA Derived: No
Description:
Reference Table: No

PeriodStartingMonth

Short Description Must be the first month of the quarter for which data is being submitted
Primary Table: Discharge
Linking Tables:
Availability to Users: LDS
Type of Data: Date
Format: YYYYMM
Length: 6
CHIA Derived: No
Description: Must be the first month of the quarter for which data is being submitted
Reference Table: No

PeriodStartingYear

Short Description Must be the year for which data is being submitted
Primary Table: Discharge
Linking Tables:
Availability to Users: CORE
Type of Data: Date
Format: YYYY
Length: 4
CHIA Derived: No
Description: Must be the year for which data is being submitted
Reference Table: No

PermanentPatientCityLDS

| | |
|-------------------------------|--|
| Short Description | Permanent city of residence for the patient. |
| Primary Table: | Discharge |
| Linking Tables: | |
| Availability to Users: | LDS |
| Type of Data: | Categorical |
| Format: | VARCHAR |
| Length: | 25 |
| CHIA Derived: | No |
| Description: | Primary city of residency for patient. |
| Reference Table: | No |

PermanentPatientCountryLDS

| | |
|-------------------------------|--|
| Short Description | Permanent country of residence for the patient. |
| Primary Table: | Discharge |
| Linking Tables: | |
| Availability to Users: | CORE |
| Type of Data: | Categorical |
| Format: | VARCHAR |
| Length: | 2 |
| CHIA Derived: | No |
| Description: | Primary country of residency for patient. In the LDS file for non-government data users, the data release will only include country information for the United States (US), Canada (CA) and Mexico (MX). All other countries will be designated by ZZ. Any additional questions concerning country information can be addressed by contacting CHIA at CaseMix.data@chiamass.gov |
| Reference Table: | No |

PermanentPatientStateLDS

| | |
|-------------------------------|---|
| Short Description | Permanent state of residence for the patient. |
| Primary Table: | Discharge |
| Linking Tables: | |
| Availability to Users: | CORE |
| Type of Data: | Categorical |
| Format: | VARCHAR |
| Length: | 2 |
| CHIA Derived: | No |
| Description: | Primary state of residency for patient. In the LDS file for non-government data users, the data release will only include state information for Massachusetts (MA), Connecticut (CT), Maine (ME), New Hampshire (NH), New York (NY), Vermont (VT) |

and Rhode Island (RI). All other states in the US will be designated by XX. Any additional questions concerning state information can be addressed by contacting CHIA at CaseMix.data@chiamass.gov

Reference Table:

STATE

PermanentPatientStreetAddress

Short Description

Patient's street address

Primary Table:

Discharge

Linking Tables:

Availability to Users:

GOV-SPEC

Type of Data:

Open Text

Format:

VARCHAR

Length:

30

CHIA Derived:

No

Description:

Address for patient's permanent residence as provided by the hospital. CHIA does not alter or standardize this field.

Reference Table:

STATE

PermanentPatientZIP3CodeLDS

Short Description

3-digit ZIP Code of the patient's permanent residence.

Primary Table:

Discharge

Linking Tables:

Availability to Users:

CORE

Type of Data:

Categorical

Format:

VARCHAR (NNN)

Length:

3

CHIA Derived:

No

Description:

First three digits of patient's permanent zip code. ZIP codes are not standardized, and this field is as reported from a nine-digit ZIP code. For LDS users only, if the patient state is not in Massachusetts or a state bordering Massachusetts (Connecticut, Maine, New Hampshire, New York, Vermont or Rhode Island) ZIP codes are set to zeros (0s) and the state is removed. Any additional questions can be addressed by contacting CHIA at CaseMix.data@chiamass.gov

Reference Table:

No

PermanentPatientZIP5CodeLDS

Short Description

5-digit ZIP Code of the patient's permanent residence.

Primary Table:

Discharge

Linking Tables:

| | |
|-------------------------------|--|
| Availability to Users: | LDS |
| Type of Data: | Categorical |
| Format: | VARCHAR (NNNNN) |
| Length: | 5 |
| CHIA Derived: | No |
| Description: | First five digits of patient's permanent ZIP Code. ZIP Codes are not standardized, and this field is as reported from a nine-digit ZIP Code. For LDS users only, if the patient state is not in Massachusetts or a state bordering Massachusetts (Connecticut, Maine, New Hampshire, New York, Vermont or Rhode Island) ZIP Codes are set to zeros (0s) and the state is removed. Any additional questions can be addressed by contacting CHIA at CaseMix.data@chiamass.gov . |
| Reference Table: | No |

PreOperativeDays

| | |
|-------------------------------|--|
| Short Description | Count of days between Admission and Procedure |
| Primary Table: | Procedure |
| Linking Tables: | |
| Availability to Users: | CORE |
| Type of Data: | Continuous |
| Format: | Integer |
| Length: | 4 |
| CHIA Derived: | |
| Description: | Calculation of the number of days between Admission and the Procedure. |
| Reference Table: | No |

PrimaryConditionPresent

| | |
|-------------------------------|--|
| Short Description | Flag indicating that Principal Condition was present on admission. |
| Primary Table: | Discharge |
| Linking Tables: | |
| Availability to Users: | CORE |
| Type of Data: | Categorical |
| Format: | VARCHAR |
| Length: | 1 |
| CHIA Derived: | No |
| Description: | Indicates that Principal Condition was present on admission. |
| Reference Table: | Condition Present on Admission |

PrimaryDiagnosisCode

| | |
|--------------------------|---|
| Short Description | ICD-10-CM code for the condition that led to the Inpatient visit. |
|--------------------------|---|

| | |
|-------------------------------|---|
| Primary Table: | Discharge |
| Linking Tables: | |
| Availability to Users: | CORE |
| Type of Data: | Categorical |
| Format: | VARCHAR |
| Length: | 7 |
| CHIA Derived: | No |
| Description: | The ICD diagnosis code corresponding to the condition established after study to be chiefly responsible for the admission of the patient for hospital care. |
| Reference Table: | Standard ICD-10-CM Diagnosis Codes |

PrimaryPayerType

| | |
|-------------------------------|-----------------------------|
| Short Description | Indicates the Type of Payer |
| Primary Table: | Discharge |
| Linking Tables: | |
| Availability to Users: | CORE |
| Type of Data: | Categorical |
| Format: | VARCHAR |
| Length: | 1 |
| CHIA Derived: | No |
| Description: | |
| Reference Table: | Payer Source Code |

PrincipalPreoperativeDays

| | |
|-------------------------------|--|
| Short Description | Count of days between Admission and Primary procedure. |
| Primary Table: | Discharge |
| Linking Tables: | |
| Availability to Users: | CORE |
| Type of Data: | Continuous |
| Format: | Integer |
| Length: | 5 |
| CHIA Derived: | |
| Description: | Calculation of the number of days between Admission and the Procedure. |
| Reference Table: | Payer Source Code |

PrincipalProcedureCode

| | |
|--------------------------|---|
| Short Description | ICD-10 code for the Principal procedure in the Inpatient visit. |
| Primary Table: | Discharge |
| Linking Tables: | |

| | |
|-------------------------------|---|
| Availability to Users: | CORE |
| Type of Data: | Categorical |
| Format: | VARCHAR |
| Length: | 7 |
| CHIA Derived: | No |
| Description: | The chief procedure performed in the Inpatient visit. |
| Reference Table: | Standard ICD-10 Procedure Codes |

PrincipalProcedureDate

| | |
|-------------------------------|---|
| Short Description | Date that the Principal procedure was performed |
| Primary Table: | Discharge |
| Linking Tables: | |
| Availability to Users: | CORE |
| Type of Data: | Date |
| Format: | YYYYMMDD |
| Length: | 8 |
| CHIA Derived: | No |
| Description: | |
| Reference Table: | No |

PrincipalProcedureMonth

| | |
|-------------------------------|--|
| Short Description | The month in which the Principal procedure was performed |
| Primary Table: | Discharge |
| Linking Tables: | |
| Availability to Users: | CORE |
| Type of Data: | Date |
| Format: | YYYYMM |
| Length: | 6 |
| CHIA Derived: | No |
| Description: | The month in which the Principal procedure was performed |
| Reference Table: | No |

ProcedureCode

| | |
|-------------------------------|--|
| Short Description | ICD-10 code for each Significant Procedure reported by the facility. Up to X Procedures in FY2021. |
| Primary Table: | Procedure |
| Linking Tables: | |
| Availability to Users: | CORE |
| Type of Data: | Categorical |

| | |
|-------------------------|---|
| Format: | VARCHAR |
| Length: | 7 |
| CHIA Derived: | No |
| Description: | The ICD procedure code usually corresponding to additional procedures which carry an operative or anesthetic risk or require highly trained personnel, special equipment or facilities. |
| Reference Table: | Standard ICD-10 Procedure Codes |

ProcedureCodeDate

| | |
|-------------------------------|----------------------------------|
| Short Description | Date the procedure was performed |
| Primary Table: | Procedure |
| Linking Tables: | |
| Availability to Users: | CORE |
| Type of Data: | Date |
| Format: | YYYYMMDD |
| Length: | 8 |
| CHIA Derived: | No |
| Description: | |
| Reference Table: | No |

ProcedureTable

| | |
|-------------------------------|--|
| Short Description | Indicates the order in which facilities submitted Procedure Codes. |
| Primary Table: | Procedure Code |
| Linking Tables: | Discharge |
| Availability to Users: | CORE |
| Type of Data: | Continuous |
| Format: | Integer |
| Length: | 3 |
| CHIA Derived: | No |
| Description: | Order in which procedure code was submitted to CHIA. |
| Reference Table: | No |

Quarter

| | |
|-------------------------------|--------------------------|
| Short Description | Quarter of submission. |
| Primary Table: | Discharge |
| Linking Tables: | Service SubmissionLog |
| Availability to Users: | CORE |
| Type of Data: | Categorical |

Format: VARCHAR (N)
Length: 1
CHIA Derived: No
Description: Quarter in which the discharge was submitted to CHIA. (1, 2, 3, 4)
Reference Table: No

Race1, Race2

Short Description: Standardized, facility reported race.
Primary Table: Discharge
Linking Tables:
Availability to Users: LDS
Type of Data: Categorical
Format: VARCHAR
Length: 6
CHIA Derived: No
Description: Primary race as reported by the provider. CHIA’s Provider community utilizes the full list of standard race codes, per Center for Disease Control (CDC) https://www.cdc.gov/nchs/data/dvs/Race_Ethnicity_CodeSet.Pdf and those listed below.

Reference Table:

| CODE | DESCRIPTION |
|--------|---|
| R1 | American Indian/Alaska Native |
| R2 | Asian |
| R3 | Black/African American |
| R4 | Native Hawaiian or other Pacific Islander |
| R5 | White |
| R9 | Other Race |
| Unknow | Unknown |

Summary Statistics: Race1, Race2

RecordType20ID

Short Description: Unique per discharge. Key to link from discharge table.
Primary Table: Discharge
Linking Tables: Diagnosis
 Service
 Procedure

| | |
|-------------------------------|---|
| Availability to Users: | Grouped CORE |
| Type of Data: | Identifier |
| Format: | Integer |
| Length: | 8 |
| CHIA Derived: | No |
| Description: | Indicator for Record Type '20'. Required for every Inpatient discharge. Only one allowed per inpatient discharge. Inpatient discharge specific record identifier used to link data about a specific discharge across CHIA data tables. Users should use this identifier with facility IDs and Discharge IDs to capture a unique record. |
| Reference Table: | No |

RevenueCode

| | |
|-------------------------------|--|
| Short Description | Billing code. |
| Primary Table: | Service |
| Linking Tables: | Service |
| Availability to Users: | CORE |
| Type of Data: | Categorical |
| Format: | VARCHAR |
| Length: | 4 |
| CHIA Derived: | |
| Description: | A numeric code which identifies a particular routine or special care accommodation. The revenue codes are taken from the Uniform Billing (UB) revenue codes and correspond to specific cost centers in the CHIA-403 cost report. |
| Reference Table: | www.nubc.org (UB-04) |

RevenueCodeType

| | |
|-------------------------------|--|
| Short Description | Type of billing code |
| Primary Table: | Service |
| Linking Tables: | Service |
| Availability to Users: | CORE |
| Type of Data: | Categorical |
| Format: | VARCHAR |
| Length: | |
| CHIA Derived: | No |
| Description: | Category of billing code to allow association with specific billing systems. |
| Reference Table: | www.nubc.org (UB-04) |

SecondaryPayerType

| | |
|-------------------------------|---------------------------------|
| Short Description | Secondary Payer for the visit. |
| Primary Table: | Discharge |
| Linking Tables: | |
| Availability to Users: | CORE |
| Type of Data: | Categorical |
| Format: | VARCHAR |
| Length: | 4 |
| CHIA Derived: | No |
| Description: | Secondary Payer for this visit. |
| Reference Table: | Payer Source Code |

SexLDS

| | |
|-------------------------------|------------------|
| Short Description | Indicates gender |
| Primary Table: | Discharge |
| Linking Tables: | |
| Availability to Users: | CORE |
| Type of Data: | Categorical |
| Format: | VARCHAR |
| Length: | 1 |
| CHIA Derived: | No |
| Description: | |
| Reference Table: | |

| CODE | DESCRIPTION |
|------|-------------|
| M | Male |
| F | Female |
| U | Unknown |

SpecialConditionIndicator

| | |
|-------------------------------|-------------|
| Short Description | |
| Primary Table: | Discharge |
| Linking Tables: | |
| Availability to Users: | CORE |
| Type of Data: | Categorical |
| Format: | VARCHAR |
| Length: | 1 |
| CHIA Derived: | No |
| Description: | |

Reference Table: Yes

SubmissionActive

Short Description: CHIA processing field
Primary Table: ErrorLog
Linking Tables:
Availability to Users: CORE
Type of Data: Categorical
Format: VARCHAR
Length: 1
CHIA Derived:
Description:
Reference Table: No

SubmissionControlID

Short Description: Unique per facility-quarter-submission. Key to link from the Discharge table.
Primary Table: Discharge
Linking Tables: Service
 SubmissionLog
 ErrorLog
Availability to Users: CORE
Type of Data: Identifier
Format: Integer
Length: 4
CHIA Derived: No
Description: Unique id for a facility's submission of data to CHIA. Usually, one Submission Control ID is associated with a facility's quarterly submission.
Reference Table: No

SubmissionPassed

Short Description: CHIA flag.
Primary Table: ErrorLog
Linking Tables:
Availability to Users: CORE
Type of Data: Categorical
Format: VARCHAR
Length: 1
CHIA Derived: Yes

Description: Indicates the submission to CHIA has passed.
Reference Table: No

SubmissionPassedFlag

Short Description CHIA derived field
Primary Table: Discharge
Linking Tables:
Availability to Users: CORE
Type of Data: Categorical
Format: VARCHAR
Length: 1
CHIA Derived: No
Description:
Reference Table: No

SubmissionQuarter

Short Description Indicates the quarter (1-4) in which the record was submitted to CHIA.
Primary Table: ErrorLog
Linking Tables:
Availability to Users: CORE
Type of Data: Categorical
Format: VARCHAR (N)
Length: 1
CHIA Derived: No
Description: Year in which the record was submitted to CHIA.
Reference Table: No

TemporaryPatientCityLDS

Short Description Current municipality of residence for a patient, if different from permanent residence.
Primary Table: Discharge
Linking Tables:
Availability to Users: LDS
Type of Data: Categorical
Format: VARCHAR
Length: 25
CHIA Derived: No
Description: MA City in which the patient temporarily resides.
Reference Table: No

TemporaryPatientStateLDS

| | |
|-------------------------------|--|
| Short Description | Current state of residence for a patient, if different from permanent residence. |
| Primary Table: | Discharge |
| Linking Tables: | |
| Availability to Users: | LDS |
| Type of Data: | Categorical |
| Format: | VARCHAR |
| Length: | 2 |
| CHIA Derived: | No |
| Description: | Indicates "MA" if the patient temporarily resides in Massachusetts. |
| Reference Table: | STATE |

TemporaryPatientZip3CodeLDS

| | |
|-------------------------------|--|
| Short Description | Current 3-digit ZIP Code of patient residence, if different from permanent residence. |
| Primary Table: | Discharge |
| Linking Tables: | |
| Availability to Users: | CORE |
| Type of Data: | Categorical |
| Format: | VARCHAR (NNN) |
| Length: | 3 |
| CHIA Derived: | No |
| Description: | First three digits of patient's temporary, Massachusetts ZIP Code. ZIP Codes are not standardized and this field is as reported from a nine-digit ZIP Code. The Limited Data Set supports selection of 3-character ZIP Code or 5-character ZIP Code for approval by CHIA. Government users may be able to request a 9-character ZIP Code. For LDS users only, if the patient state is not in Massachusetts or a state bordering Massachusetts (Connecticut, Maine, New Hampshire, New York, or Rhode Island) ZIP Codes are set to zeros (0s) and the state is removed. |
| Reference Table: | No |

TemporaryPatientZip5CodeLDS

| | |
|-------------------------------|---|
| Short Description | Current 5-digit ZIP Code of patient residence, if different from permanent residence. |
| Primary Table: | Discharge |
| Linking Tables: | |
| Availability to Users: | LDS |
| Type of Data: | Categorical |
| Format: | VARCHAR (NNNNN) |
| Length: | 5 |
| CHIA Derived: | No |

| | |
|-------------------------|---|
| Description: | First five digits of patient's temporary, Massachusetts ZIP Code. ZIP Codes are not standardized and this field is as reported from a nine-digit ZIP Code. The Limited Data Set supports selection of 3-character ZIP Code or 5-character ZIP Code for approval by CHIA. Government users may be able to request a 9-character ZIP Code. For LDS users only, if the patient state is not in Massachusetts or a state bordering Massachusetts (Connecticut, Maine, New Hampshire, New York, or Rhode Island) ZIP Codes are set to zeros (0s) and the state is removed. |
| Reference Table: | No |

TemporaryPatientZIP5Code

| | |
|-------------------------------|---|
| Short Description | Patient's ZIP Code |
| Primary Table: | Discharge |
| Linking Tables: | |
| Availability to Users: | LDS |
| Type of Data: | Categorical |
| Format: | VARCHAR (NNNNN) |
| Length: | 5 |
| CHIA Derived: | |
| Description: | ZIP Code of patient's temporary Massachusetts address. CHIA does not alter or standardize the values in this field. |
| Reference Table: | No |

TemporaryUSPatientStreetAddress

| | |
|-------------------------------|--|
| Short Description | Patient's street address |
| Primary Table: | Discharge |
| Linking Tables: | |
| Availability to Users: | GOV-SPEC |
| Type of Data: | Open Text |
| Format: | VARCHAR |
| Length: | 30 |
| CHIA Derived: | No |
| Description: | Address for patient's temporary, Massachusetts-based, residence as provided by the hospital. CHIA does not alter or standardize this field |
| Reference Table: | No |

TotalCharges

| | |
|--------------------------|--|
| Short Description | Total inpatient charges included with a Facility-Submission-Quarter. |
| Primary Table: | Service |
| Linking Tables: | Service |

| | |
|-------------------------------|--|
| | SubmissionLog |
| Availability to Users: | CORE |
| Type of Data: | Continuous |
| Format: | Integer |
| Length: | 8 |
| CHIA Derived: | No |
| Description: | Sum of charges for the inpatient stay. |
| Reference Table: | No |

TotalChargesAll

| | |
|-------------------------------|--|
| Short Description | Hospital charges (all) |
| Primary Table: | Discharge |
| Linking Tables: | |
| Availability to Users: | CORE |
| Type of Data: | Continuous |
| Format: | Integer |
| Length: | 8 |
| CHIA Derived: | No |
| Description: | The full, undiscounted charges summarized by specific accommodation revenue code(s). Total charges should not include charges for telephone service, television or private duty nurses. Any charges for a leave of absence period are to be included in the routine accommodation charges for the appropriate service (medical/surgical, psychiatry) from which the patient took the leave of absence. Any other routine admission charges or daily charges under which expenses are allocated to the routine or special care reporting centers on the CHIA-403 must be included in the total charges. This is the grand total of charges associated with the patient's inpatient stay. The total charge amount should be rounded to the nearest dollar. A charge of \$0 is not permitted unless the patient has a special Departure Status. |
| Reference Table: | No |

TotalChargesAncillaries

| | |
|-------------------------------|--|
| Short Description | Hospital ancillary charges |
| Primary Table: | Discharge |
| Linking Tables: | |
| Availability to Users: | CORE |
| Type of Data: | Continuous |
| Format: | Integer |
| Length: | 8 |
| CHIA Derived: | No |
| Description: | The full, undiscounted charges summarized by a specific ancillary service revenue code(s). |

Reference Table: No

TotalChargesRoutine

Short Description: Hospital routine charges

Primary Table: Discharge

Linking Tables:

Availability to Users: CORE

Type of Data: Continuous

Format: Integer

Length: 8

CHIA Derived: No

Description: The full, undiscounted charges for patient care summarized by prescribed revenue code for routine accommodation services as specified in Inpatient Data Code Table(3).

Reference Table: No

TotalChargesSpecial

Short Description: Special charges for hospital services

Primary Table: Discharge

Linking Tables:

Availability to Users: CORE

Type of Data: Continuous

Format: Integer

Length: 8

CHIA Derived: No

Description: The full, undiscounted charges for patient care summarized by prescribed revenue code for accommodation services in those special care units which provide patient care of a more intensive nature than that provided in the general medical care units, as specified in Inpatient Data Code Table(3).

Reference Table: No

TransmittalID

Short Description: CHIA created field

Primary Table: SubmissionLog

Linking Tables:

Availability to Users: CORE

Type of Data: Identifier

Format: Integer

Length: 5

CHIA Derived: No
Description: CHIA processing field
Reference Table: No

TypeofService

Short Description CHIA created field
Primary Table: Service
Linking Tables:
Availability to Users: CORE
Type of Data: Categorical
Format: VARCHAR
Length:
CHIA Derived: No
Description: Code ANC used to indicate ancillary services and Code ACC used to indicate accommodation services.
Reference Table: No

UHIN

Short Description Unique patient id created by CHIA.
Primary Table: Discharge
Linking Tables:
Availability to Users: LDS
Type of Data: Identifier
Format: VARCHAR
Length: 9
CHIA Derived: No
Description: CHIA generated unique identifier of the patient. Linkable across records and fiscal years. Each patient is given by CHIA a Unique Health Information Number (UHIN), which is a surrogate key that can link patients over time and across facilities. The data element is blank, a single dash (-) appears in the UHIN field. It is valid for facilities to report that the unique patient identifier is unknown. In these cases, the UHIN appears as '000000001'. The utility of the UHIN field is dependent on the reporting data. For a small number of facilities, little or no UHIN data exists, as these institutions failed to report patients' uniquely identified information. Other facilities reported the same data repeatedly, resulting in numerous admissions for one UHIN. In other cases, the demographic information (age, sex, etc.) was not consistent when a match did exist with the UHIN. Some explanations for this include assignment of a mother's unique identifiers to her infant or assignment of a spouse's unique identifiers to a patient. Invalid data uses the code UHIN="4".
Reference Table: No

UHIN_SequenceNo

| | |
|-------------------------------|--|
| Short Description | Order of hospital discharges for a patient. |
| Primary Table: | Discharge |
| Linking Tables: | |
| Availability to Users: | LDS |
| Type of Data: | Continuous |
| Format: | VARCHAR |
| Length: | 3 |
| CHIA Derived: | Yes |
| Description: | This calculated field indicates the chronological order of Inpatient discharge for patients with multiple Inpatient discharges in a fiscal year. A match with the UHIN only, is used to make the determination that a patient has had multiple discharges. The Sequence Number uses the following data conventions: (1) The sequence number is calculated by sorting the file by UHIN and discharge date (in ascending order). (2) The sequence number is then calculated by incrementing a counter for each UHIN's set of discharges. A sequence number of "1" indicates the first discharge for the UHIN in that fiscal year. (3) If a UHIN has two visits on the same day, the visit date is used as the secondary sort key. (4) If the UHIN is undefined (not reported, unknown or invalid), the sequence number is set to zero. |
| Reference Table: | No |

UnitsOfService

| | |
|-------------------------------|---|
| Short Description | Number of days with an Accommodation charge |
| Primary Table: | Service |
| Linking Tables: | Service |
| Availability to Users: | CORE |
| Type of Data: | Continuous |
| Format: | Integer |
| Length: | 5 |
| CHIA Derived: | No |
| Description: | Number of days with an Accommodation charge |
| Reference Table: | No |

VeteransStatus

| | |
|-------------------------------|--------------------------|
| Short Description | Indicates Veteran status |
| Primary Table: | Discharge |
| Linking Tables: | |
| Availability to Users: | GOV |
| Type of Data: | Categorical |
| Format: | VARCHAR (N) |
| Length: | 1 |
| CHIA Derived: | No |

Description: Indicates Veteran status

Reference Table:

| CODE | DESCRIPTION |
|------|---|
| 1 | YES |
| 2 | NO (includes never in military, currently inactive duty, National Guard or reservist with 6 months or less active duty) |
| 3 | Not applicable |
| 4 | Not determined (unable to obtain information) |

Year

Short Description Indicates Fiscal Year of submission.

Primary Table: Discharge

Linking Tables: Service
SubmissionLog

Availability to Users: CORE

Type of Data: Date

Format: YYYY

Length: 4

CHIA Derived: No

Description: Fiscal Year the data was submitted.

Reference Table: No

Longer Reference Tables

FY2021 HIDD has 20 standard reference tables. These relate to categorical variables that are driven by the *Hospital Inpatient Discharge Database October 2020 Submission Guide*. Some of the tables have been integrated into the data dictionary. This section contains longer tables used by multiple data elements. Users of the data with additional questions about any specific Reference table should contact CHIA at CaseMix.data@chiamass.gov.

Table 1. ADSOURCE

| | |
|--------------------------------|------------------------------|
| Principal Data Element: | AdmissionSourceCode1 |
| Other Data Elements: | AdmissionSourceCode2 |
| Rules: | All other values are invalid |
| Last Updated: | 04/2020 |

| CODE | DESCRIPTION |
|------|--|
| 0 | Information Not Available |
| 1 | Direct Physician Referral |
| 2 | Within Hospital Clinic Referral |
| 3 | Direct Health Plan Referral/HMO Referral |
| 4 | Transfer from Acute Care Hospital |
| 5 | Transfer from a Skilled Nursing Facility (SNF) |
| 6 | Transfer from Intermediate Care Facility (ICF) |
| 7 | Outside Hospital Emergency Room Transfer |
| 8 | Court/Law Enforcement |
| 9 | Other |
| F | Transfer from a Hospice Facility |
| J | Transfer from another unit within same hospital |
| K | Transfer from a Designated Disaster Alternative Care Site |
| L | Outside Hospital Clinic Referral |
| M | Walk-In/Self-Referral |
| R | Within Hospital ER Transfer |
| T | Transfer from Another Institution's Ambulatory Surgery (SDS) |
| U | Transfer to Swing bed in same facility |

| CODE | DESCRIPTION |
|------|--|
| V | Transfer from another facility to Swing bed |
| W | Extramural Birth |
| X | Observation |
| Y | Within Hospital Ambulatory Surgery Transfer (SDS Transfer) |

| SRCADM CODE | FOR NEWBORN |
|-------------|---------------------------|
| 0 | Information Not Available |
| A | Normal Delivery |
| B | Premature Delivery |
| C | Sick Baby |
| D | Extramural Birth |

Table 2. CONDITION PRESENT

Principal Data Element: PrimaryConditionPresent

Other Data Elements: ConditionPresent
ConditionPresentECode

Rules: All other values invalid.

Last Updated: 1/31/2017

| CODE | DESCRIPTION |
|---------|---|
| Y | Yes |
| N | No |
| U | Unknown |
| W | Clinically undetermined |
| 1 | Not applicable (only valid for NCHS official published list of not applicable ICD-10-CM codes for POA flag) |
| [Blank] | Not applicable (only valid for NCHS official published list of not applicable ICD-10-CM codes for POA flag) |

Table 3. PATIENT STATUS

Look-up Table Patient Status
Principal Data Element: Patient Status
Rules: All other values are invalid
Last Updated: 4/21/2020

| CODE | DESCRIPTION |
|------|--|
| 01 | Discharged/transferred to home or self-care (routine discharge) |
| 02 | Discharged/transferred to another short-term general hospital for inpatient care |
| 03 | Discharged, transferred to Skilled Nursing Facility (SNF) |
| 04 | Discharged/transferred to an Intermediate Care Facility (ICF) |
| 05 | Discharged/transferred to a Designated Cancer Center or Children’s Hospital. |
| 06 | Discharged/transferred to home under care of organized home health service organization |
| 07 | Left against medical advice (AMA) |
| 08 | Discharged/transferred to home under care of a Home IV Drug Therapy Provider |
| 09 | Not allowed in the MA Hospital Inpatient Discharge Data |
| 12 | Discharged Other |
| 13 | Discharged/transferred to rehab hospital |
| 14 | Discharged/transferred to rest home |
| 15 | Discharged to Shelter |
| 20 | Expired (or did not recover - Christian Science Patient) |
| 41 | Discharged/transferred to federal healthcare facility |
| 43 | Discharged/transferred to federal healthcare facility |
| 50 | Discharged to Hospice - Home |
| 51 | Discharged to Hospice Medical Facility |
| 61 | Discharged/transferred within this institution to a hospital-based Medicare-approved swing bed |
| 62 | Discharged/transferred to an inpatient rehabilitation facility (IRF) including rehabilitation distinct part units of a hospital. |
| 63 | Discharged/transferred to a Medicare certified long term care hospital. |
| 64 | Discharged/transferred to a nursing facility certified under Medicaid but not certified under Medicare |
| 65 | Discharged/transferred to psychiatric hospital or psychiatric distinct part unit of a hospital. |
| 66 | Discharged/transferred to a Critical Access Hospital (CAH). |
| 69 | Discharged/transferred to a Designated Alternative Care Site. |
| 70 | Discharged/transferred to another type of health care institution not defined elsewhere in this code list |

| CODE | DESCRIPTION |
|------|--|
| 81 | Discharged to home or self-care with a planned acute care hospital inpatient readmission |
| 82 | Discharged/transferred to a short-term general hospital for inpatient care with a planned acute care hospital inpatient readmission |
| 83 | Discharged/transferred to a skilled nursing facility (SNF) with Medicare certification with a planned acute care hospital inpatient readmission |
| 84 | Discharged/transferred to a facility that provides custodial or supportive care with a planned acute care hospital inpatient readmission |
| 85 | Discharged/transferred to a designated cancer center or children's hospital with a planned acute care hospital inpatient readmission |
| 86 | Discharged/transferred to home under care of organized home health service organization with a planned acute care hospital inpatient readmission |
| 87 | Discharged/transferred to court/law enforcement with a planned acute care hospital inpatient readmission |
| 88 | Discharged/transferred to a federal health care facility with a planned acute care hospital inpatient readmission |
| 89 | Discharged/transferred to a hospital-based Medicare approved swing bed with a planned acute care hospital inpatient readmission |
| 90 | Discharged/transferred to an inpatient rehabilitation facility (IRF) including rehabilitation distinct part units of a hospital with a planned acute care hospital inpatient readmission |
| 91 | Discharged/transferred to a Medicare certified long term care hospital (LTCH) with a planned acute care hospital inpatient readmission |
| 92 | Discharged/transferred to a nursing facility certified under Medicaid but not certified under Medicare with a planned acute care hospital inpatient readmission |
| 93 | Discharged/transferred to a psychiatric distinct part unit of a hospital with a planned acute care hospital inpatient readmission |
| 94 | Discharged/transferred to a Critical Access Hospital (CAH) with a planned acute care hospital inpatient readmission |
| 95 | Discharged/transferred to another type of health care institution not defined elsewhere in this code list with a planned acute care hospital inpatient readmission |

Table 4. PAYER TYPE

Principal Data Element: Payer Type
Other Data Elements: ManagedCareCode / MCareMCaidPrivCode
Rules: All other values are invalid

| PAYER TYPE CODE | PAYER TYPE ABBREVIATION | PAYER TYPE DEFINITION |
|-----------------|-------------------------|---|
| 1 | SP | Self-Pay |
| 2 | WOR | Worker's Compensation |
| 3 | MCR | Medicare |
| F | MCR-MC | Medicare Managed Care (includes Medicare Advantage) |
| 4 | MCD | Medicaid |
| B | MCD-MC | Medicaid Managed Care / MCO |
| 5 | GOV | Other Government Payment |
| 7 | COM | Commercial Insurance |
| D | COM-MC | Commercial Managed Care |
| 8 | HMO | HMO |
| 9 | FC | Free Care |
| 0 | OTH | Other Non-Managed Care Plans |
| E | PPO | PPO and Other Managed Care Plans Not Elsewhere Classified |
| H | HSN | Health Safety Net |
| J | POS | Point-of-Service Plan |
| K | EPO | Exclusive Provider Organization |
| T | AI | Auto Insurance |
| N | None | None (Valid only for Secondary Payer) |
| Q | CommCare | Commonwealth Care/Connector Care Plans |
| Z | DEN | Dental Plans |
| S | SCO/ICO | Senior Care Options / Integrated Care Organization |
| A | MCD-ACO | Medicaid Accountable Care Organization |
| C | COM-ACO | Commercial Accountable Care Organization |

Table 5. PAYMENT SOURCE

Principal Data Element: PayerCode1

Other Data Elements: PayerCode2
PrimaryPayerType
SecondaryPayerType

Rules: All other values are invalid.
Some codes are valid as Secondary Source of Payment.

Last Updated: 10/01/2020

Refer to complete listing at: [CHIA Payer Source Codes](#)

Table 6. STATE

Principal Data Element: PermanentPatientStateLDS

Other Data Elements: TemporaryPatientStateLDS Rules

Rules: All other values are invalid.
Must be present when Patient Country is 'US'.
Must be valid U.S. postal code for state.

| CODE | DESCRIPTION |
|------|---------------|
| CT | Connecticut |
| ME | Maine |
| MA | Massachusetts |
| NH | New Hampshire |
| NY | New York |
| RI | Rhode Island |
| VT | Vermont |

Note: The LDS includes only the states listed above. The default code of XX is used for any other state or U.S. possession.

Part D. Data Notes

At the time of this publication, the following data notes were present. As data findings occur, CHIA will update the FY2021 HIDD Release Notes published on the CHIA website at <https://www.chiamass.gov/case-mix-data/>.

- Sturdy Memorial Hospital (Org Id 129) did not submit quarterly HIDD files for FY2021.
- Steward Norwood Hospital (Org Id 41) temporarily closed on June 29, 2020 due to flooding and did not submit quarterly HIDD files for FY2021. This site is currently undergoing a complete renovation and rebuild.
- MetroWest Medical Center restructured the availability of patient care services at their Leonard Morse Hospital Campus (Org Id 457) on October 25, 2020. Most services were consolidated to their Framingham Union Hospital Campus (Org Id 49) but they continue to offer inpatient psychiatric care.
- New England Baptist Hospital (Org Id 103) reported a decline in discharges in January 2021 due to the hold placed on elective surgeries during the COVID-19 surge.
- Mercy Medical Center – Providence Behavioral Health Hospital Campus (Org Id 118) closed in April 2021. Inpatient discharge data is only reported for quarters 1, 2 and 3.
- Cambridge Health Alliance opened an adolescent inpatient psychiatry unit at their Somerville Hospital Campus (Org 143) on June 23, 2021. Inpatient discharge data is only reported for quarters 3 and 4.
- UMass Memorial Hospital began offering a Hospital at Home (Org Id 20201) inpatient program in August 2021. This is an innovative way for certain patients to receive care in the comfort of their own home. Inpatient discharge data is only reported for quarter 4.
- Boston Medical Center – Menino Campus (Org Id 16) does not currently maintain physician license numbers in their EHR system. In lieu of a license number, patient records include “OTHER” in the attending and/or operating physician data field. The reported data passed validation thresholds and BMC plans to include this information in a future system update.
- Mount Auburn Hospital (Org Id 100) and UMass Memorial Health Hospitals are reporting “OTHER” in the attending and/or operating physician data field. This is currently under investigation.
- Fairview Hospital (Org Id 8) understated the number of swing bed discharges by incorrectly coding the source of admission on approximately 17 patient records. Resubmissions were received too late to include in the FY2021 HIDD final release.

Prior to releasing the Final FY2021 HIDD, CHIA provides the hospitals with a profile of the data submitted. Providers may resubmit data or may provide written feedback to CHIA. Below is a summary of some of the key feedback received:

- Athol Memorial Hospital (Org Id 2) and Heywood Hospital (Org Id 73):
 - Noted some inaccurate reporting of Patient Race, Ancillary Services Revenue Codes and Source of Admission-Newborns in quarter 3. This is currently under investigation.
- Berkshire Medical Center (Org Id 7):
 - Noted a flaw in their EHR system as all patients are being reported as not Hispanic. This is currently under investigation.
- Fairview Hospital (Org Id 8):
 - Noted a flaw in their EHR system as all patients are being reported as not Hispanic. This is currently under investigation.
 - Noted an increase in Swing bed admissions due to the utilization of these beds in early FY2021 to care for COVID patients. These admissions tapered off later in FY2021 as the decision was made to keep Fairview Hospital a COVID-free site.

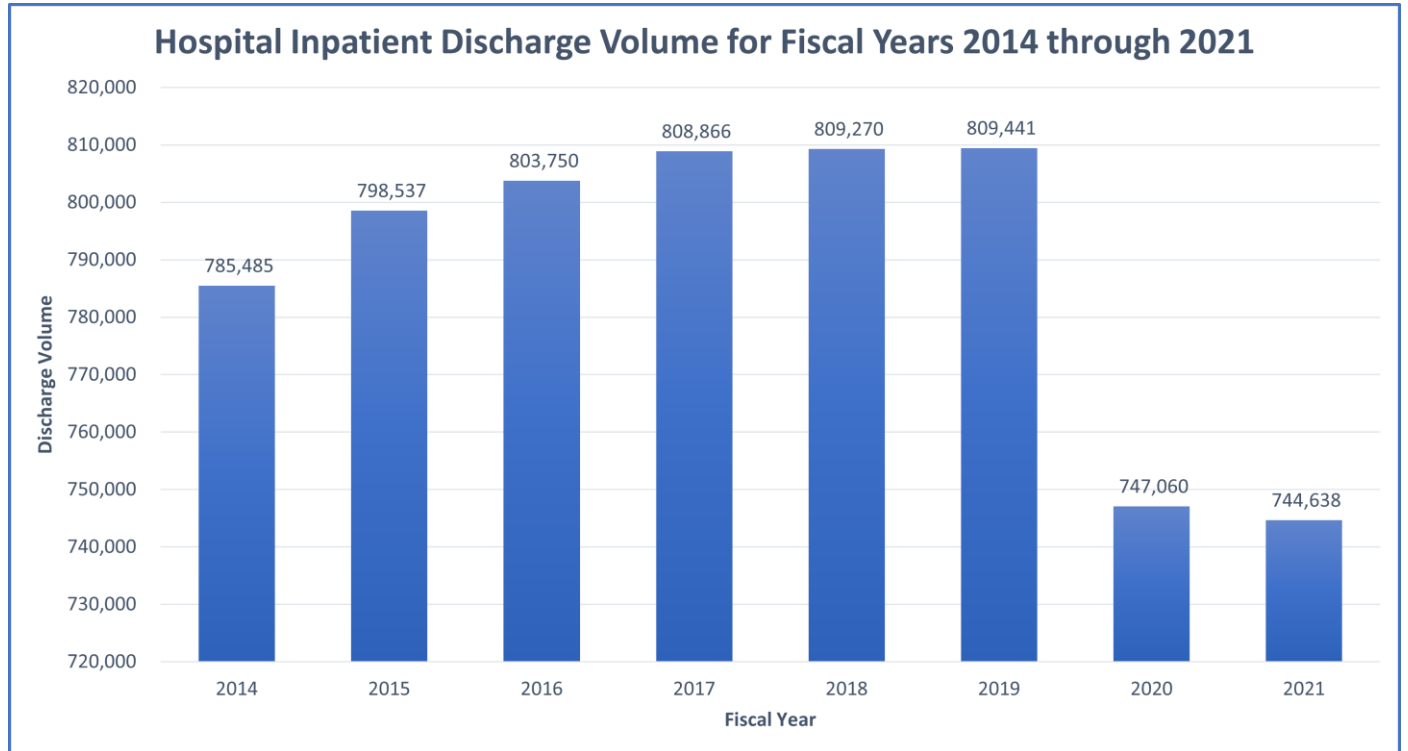
- Cooley Dickinson Hospital (Org Id 50):
 - Noted a quarter 4 category shift in Source of Admission between Direct Physician Referral and Walk-In/Self Referral. The increase in physician referrals correlates to the increase in elective surgeries which were curtailed earlier in the year. The decline in walk-ins is reflective of more patients accessing care through physician providers during this time period.
- Steward St. Elizabeth's Hospital (Org Id 126):
 - Noted discrepancies reported in Primary Source of Payment and Payer Type. Approximately 170 inpatient discharges were incorrectly coded as Medicaid instead of Mass Behavioral Health Partnership, a Medicaid Managed Care plan.
- Beth Israel Deaconess Hospital – Milton (Org Id 98):
 - Noted uncertainty of inpatient discharge volumes identified as “Not Reported” in the following reports:
 - Top 10 Cause Code of Injury; Top 10 Principal Procedure Code; Top 10 Operating Physician; Registered in ED – Time of Day; Registered in ED – Day of Week

The following hospitals resubmitted data prior to finalizing the FY2021 HIDD release available in April 2022.

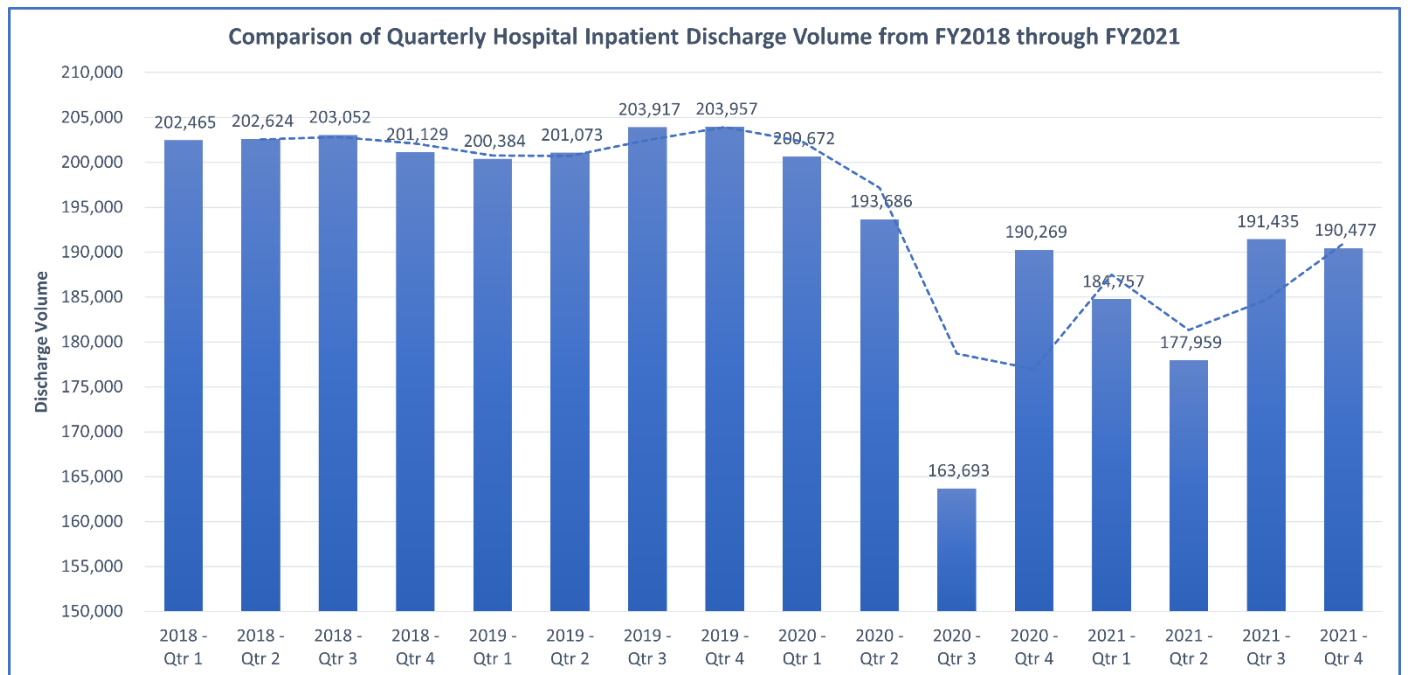
- Cape Cod Hospital (Org Id 39) resubmitted all quarters to include missing newborn discharges and to correct type of admission and other mapping issues related to a recent system conversion.
- Falmouth Hospital (Org Id 40) resubmitted all quarters to correct mapping issues related to a recent system conversion.
- MetroWest Medical Center – Framingham Union Hospital Campus (Org Id 49), Leonard Morse Hospital Campus (Org Id 457) and Saint Vincent Hospital (Org Id 127) resubmitted all quarters to correct transfer org ids previously reported as '9999999', an indication the transfer originated from outside of Massachusetts.
- Lawrence General Hospital (Org Id 83) resubmitted all quarters to include missing newborn discharges.
- Mass General Hospital (Org Id 91) resubmitted quarters 1, 2 and 3 to correct Medicare payer codes.
- Milford Regional Medical Center (Org Id 97) resubmitted all quarters to correct the number of reported discharges.
- New England Baptist Hospital (Org Id 103) and South Shore Hospital (Org Id 122) resubmitted all quarters to correct patient departure status codes previously reported as one digit. CHIA specifications require two digit codes.
- North Shore Medical Center (Org Id 116) resubmitted quarters 3 and 4 to correct source of admission.

DISCHARGE VOLUME

The Final FY2021 HIDD release contains a lower volume of visit records than previous years.

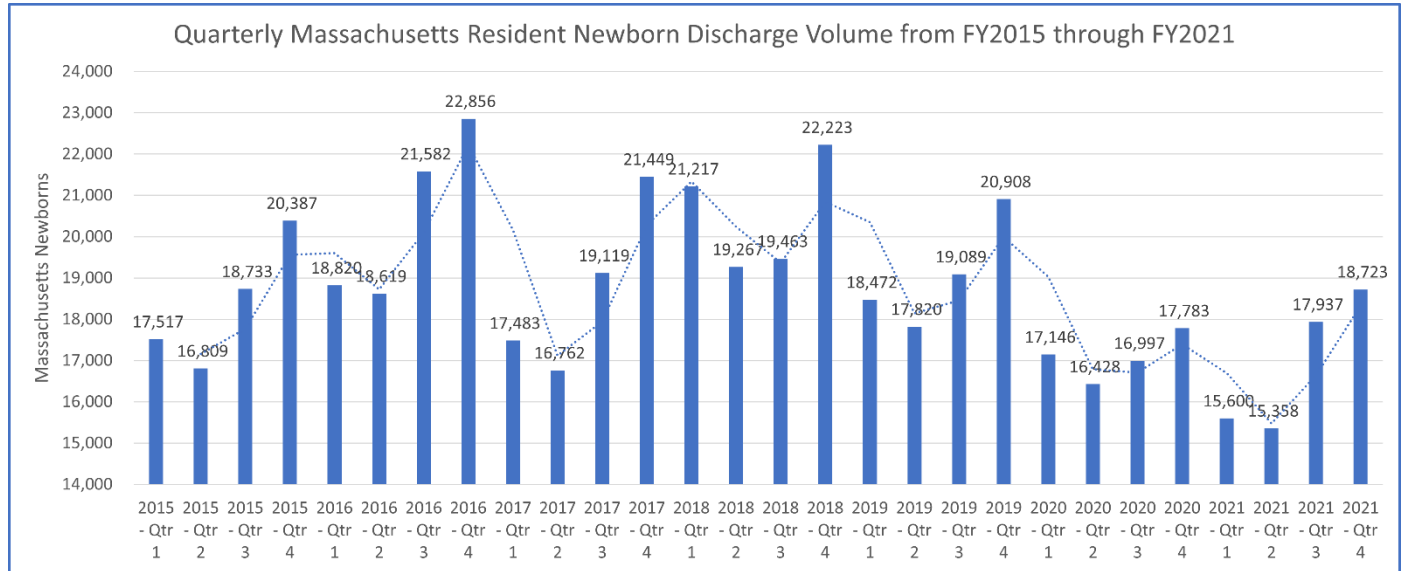


While the annual FY2020 and FY2021 inpatient discharges decreased, the last two quarters of FY2021 are trending upward.



NEWBORNS

Over the past seven years, the fourth quarter of every fiscal year tends to have the highest volume of Massachusetts newborns. In the fourth quarter of FY2021, the volume of Massachusetts newborns trended upwards surpassing the volume of some pre-pandemic quarters.



DRG VERSIONS

CHIA releases multiple versions of the DRG groupers each year to facilitate longitudinal across year comparison using the same DRG version. A common question asked is whether different DRG versions assign a principal diagnosis of COVID-19 (ICD-10-CM U071) differently and the answer is yes. In the FY2021 HIDD, there were 25,995 discharges with a principal diagnosis of COVID-19. APR-DRG version 20 assigned most patients to DRG 723 (viral illness), while the newer DRGs (versions 30.0, 34.0 and 36.0) assign most patients to **DRG 137** (major respiratory infections & inflammations). The newer APR-DRG 36.0 assigned more patients to DRG 130 (respiratory system diagnosis with ventilator support 96+ hours). The table below compares by APR-DRG version the DRG assignment of the patients with a principal DX of COVID-19 in the FY2021 HIDD for the top 10 groupings representing 25,995 of the total 25,719 patients.

FY2021 Top 10 DRG Grouping Assignments for Discharges with Principal DX of COVID

| Principal DX COVID | APR-DRG 36.0 | APR-DRG 34.0 | APR-DRG 30.0 | APR-DRG 26.1 | APR-DRG 20.0 | Number of Discharges |
|-----------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-------------------------|
| U071 | 137 | 137 | 137 | 137 | 723 | 23,992 |
| U071 | 130 | 951 | 951 | 951 | 710 | 573 |
| U071 | 130 | 130 | 130 | 130 | 723 | 461 |
| U071 | 137 | 951 | 951 | 951 | 710 | 323 |
| U071 | 005 | 004 | 004 | 004 | 004 | 167 |
| U071 | 951 | 951 | 951 | 951 | 710 | 52 |
| U071 | 005 | 005 | 005 | 005 | 005 | 49 |
| U071 | 004 | 004 | 004 | 004 | 004 | 39 |
| U071 | 137 | 951 | 137 | 137 | 723 | 32 |
| U071 | 130 | 951 | 130 | 130 | 723 | 31 |

CHARGES

Data users frequently ask, “*what is the difference between the charge fields in the main discharge table?*”. The main discharge table contains four charge fields: routine charges, special charges, ancillary charges, and all total charges. Consistently each year, ancillary charges constitute the highest proportion of the total charges. CMS defines ancillary charges as, “professional services by a hospital or other inpatient health program. These may include x-ray, drug, laboratory, or other services.” CMS defines routine charges as, “services included by the provider in a daily service charge--sometimes referred to as the "Room and Board" charge. They include the regular room, dietary and nursing services, minor medical and surgical supplies, medical social services, psychiatric social service.” Each year over 90% of special care charges are for different levels of intensive care utilization, including newborn ICU. In the services table which contains revenues, there is a field called type of service with two coding options, ANC for ancillary and ACC for accommodations. The revenue codes associated with ancillary charges will have the code ANC. Those associated with routine charges or special charges will typically have the code ACC. The Table below shows the sum of charges for each charge amount type for FY2015 to FY2021 and the proportion of total costs by each charge type.

FY2015 through FY2021 Hospital Inpatient Charge Amounts

| | Routine Charges | Special Charges | Ancillary Charges | Total Charges |
|---------------|-----------------|-----------------|-------------------|------------------|
| FY2021 | \$6,932,415,619 | \$3,477,387,716 | \$20,492,708,848 | \$30,902,512,183 |
| FY2020 | \$6,419,739,353 | \$3,215,372,990 | \$19,017,940,841 | \$28,653,053,184 |
| FY2019 | \$6,539,530,884 | \$3,016,068,410 | \$19,674,237,567 | \$29,229,836,861 |
| FY2018 | \$6,229,745,403 | \$2,809,882,244 | \$18,280,449,080 | \$27,320,076,727 |
| FY2017 | \$5,887,655,148 | \$2,479,900,849 | \$17,405,752,503 | \$25,773,308,500 |
| FY2016 | \$5,664,763,025 | \$2,389,925,727 | \$16,600,712,637 | \$24,655,401,389 |
| FY2015 | \$5,254,785,399 | \$2,260,491,102 | \$15,192,788,916 | \$22,708,065,417 |

| | Routine Charges | Special Charges | Ancillary Charges | Total Charges |
|---------------|-----------------|-----------------|-------------------|------------------|
| FY2021 | 22.4% | 11.3% | 66.3% | \$30,902,512,183 |
| FY2020 | 22.4% | 11.2% | 66.4% | \$28,653,053,184 |
| FY2019 | 22.4% | 10.3% | 67.3% | \$29,229,836,861 |
| FY2018 | 22.8% | 10.3% | 66.9% | \$27,320,076,727 |
| FY2017 | 22.8% | 9.6% | 67.5% | \$25,773,308,500 |
| FY2016 | 23.0% | 9.7% | 67.3% | \$24,655,401,389 |
| FY2015 | 23.1% | 10.0% | 66.9% | \$22,708,065,417 |