Massachusetts Case Mix

Outpatient Observation Data (OOD)

Fiscal Year 2019

Documentation Manual

CHIA.

Massachusetts Case Mix
FY2019 Outpatient Observation 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 outpatient observation units about patient stays that did not end in an inpatient admission. Data on observation stay patients who were admitted to the same acute inpatient facility at which their observation stay occurred can be found in the FY2019 Hospital Inpatient Discharge Database (HIDD). The FY2019 Outpatient Observation Database (OOD) includes observation stays that occurred between October 1, 2018 and September 30, 2019. Facilities reported a total of 216,037 stays.

The FY2019 OOD Guide provides general information about CHIA's most recent outpatient observation data holdings. This information includes high level data notes (data collection, data application, and use) and a codebook (data element, data dictionary, reference tables, and summary statistics).

Part A. Data Collection

Select facilities in Massachusetts are required to submit outpatient observation stay data to CHIA under regulation *957 CMR 8.00 - APCD and Case Mix Data Submission*. Researchers can access OOD regulations by visiting CHIA's web site at **http://www.chiamass.gov/regulations**.

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 FY2019 OOD are as follows:

- **Quarter 1: October 1, 2018 - December 31, 2018**

- **Quarter 2: January 1, 2019 – March 31, 2019**

- **Quarter 3: April 1, 2019 – June 30, 2019**

- **Quarter 4: July 1, 2019 – September 30, 2019**

CHIA reviews each facility'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 stay for the facility's quarterly submission. CHIA checks for valid codes, correct formatting, and presence of the required data elements. If one percent or more of the stays are rejected, CHIA rejects the entire submission.

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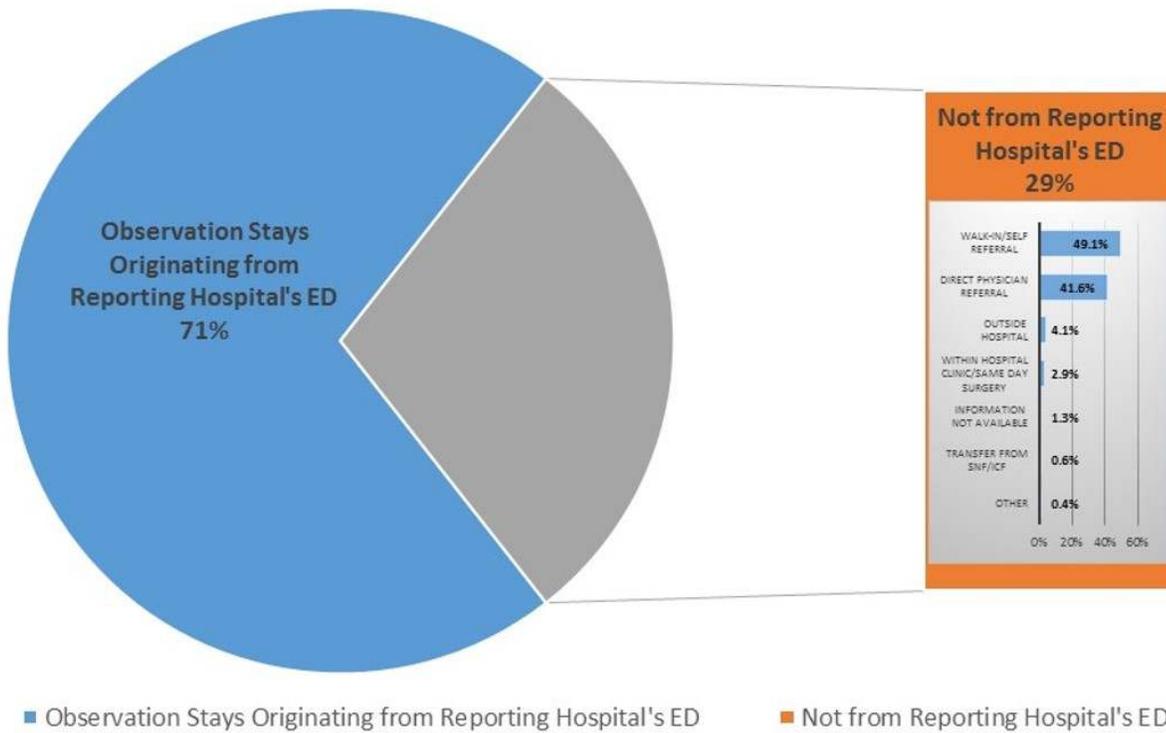
Data Sources

Any stay for which the patient was admitted to observation, but which did not result in an inpatient admission of the patient at the reporting hospital, is included in the FY2019 OOD. Observation services may include monitoring, assessment, and short term treatment before determining whether a patient requires further hospital inpatient treatment or step down monitoring of a patient discharged from inpatient care. An observation stay may occur even if the only service provided is the short term use of a bed to a registered patient for triage or screening. Observation services are further defined in the Hospital Uniform Reporting Manual (HURM), Chapter III, § 3241.

Observation Stays Originating from Emergency Department Visits

FY2019 outpatient Emergency Department (ED) visits which result in an observation stay at the reporting hospital are not included in the reporting hospital's FY2019 ED visit data. Observation stays that began in the reporting hospital's ED now report in the OOD stay record, the patient's ED registration and discharge date and times associated with the observation stay which originated from an ED visit. While the source of admission codes and ED Flag fields are also used to indicate observation stays originating from an ED Visit, there has been more consistency and completeness in the reporting of the ED registration and ED discharge fields for such stays. Based on the reporting of ED registration and ED discharge dates, all high proportion of observation stays originate from ED visits. As shown in Figure 1 below, 71% (n=153,701) of all FY2019 observation stays (n=216,037) originated in the reporting hospital's ED.

Figure 1. Origin of FY2019 Observation Stays

Observation Stays Originating from Reporting Hospital's ED 71%

Not from Reporting Hospital's ED 29%

WALK-IN/SELF REFERRAL	49.1%
DIRECT PHYSICIAN REFERRAL	41.6%
OUTSIDE HOSPITAL	4.1%
WITHIN HOSPITAL CLINIC/SAME DAY SURGERY	2.9%
INFORMATION NOT AVAILABLE	1.3%
TRANSFER FROM SNF/ICF	0.6%
OTHER	0.4%

■ Observation Stays Originating from Reporting Hospital's ED   ■ Not from Reporting Hospital's ED

Observation Stays Resulting in Inpatient Admissions

If the patient was admitted to inpatient care, observation services were reported as inpatient observation services and included in the reporting hospital's inpatient discharge data (HIDD) and not in the FY2019 OOD. Data users interested in observation stays that result in an inpatient admission should use the FY2019 HIDD. The HIDD database has an "Observation Indicator" flag which identifies admissions that include an observation stay. Their ED Registration and Discharge Dates and Time are also included in the HIDD database.

OOD Verification Report Process

CHIA sends each facility a report with their observation stay data to maintain and improve the quality of their data submissions. The Verification Report process gives the facilities the opportunity to review the data they have provided to CHIA and affirm data accuracy and completeness.

CHIA produces facility specific Verification Reports at year-end. CHIA asks each facility 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 stays per month and breakouts by admission type, admission source, patient race, and patient disposition.

Facilities must affirm that reported data was accurate or identify any discrepancies. Facilities certify the accuracy and completeness of their data by completing a Verification Report Response form. CHIA accepts two response types from facilities:

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

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

Users interested in the FY2019 OOD Verification Reports should contact CHIA at **CaseMix.data@state.ma.us**. Please indicate the fiscal year of the Verification Report, the dataset name, and if the information is needed for a specific facility or set of facilities.

Part B: Applying for CHIA Data

Researchers interested in receiving CHIA data should follow the instructions below to apply for the data. Due to the custom nature of each data request, limited information covering all data uses is provided. Data applicants needing additional assistance applying for data or using the data should contact CHIA at **CaseMixCaseMix.data@state.ma.us.**

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.
- 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: **https://www.chiamass.gov/assets/Uploads/data-apps/Application-Submission-IRBNet-Tutorial.pdf**
- Non-Government applicants can request approval to use a pre-configured Limited Data Set (LDS), designed to protect patient data confidentiality while ensuring analytic utility. 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 for the release of data while protecting patient privacy. For this reason, applicants should familiarize themselves with CHIA's APCD and Case Mix Data 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 stored on a Cloud Service Provider must pass a Fed RAMP 3PAO assessment for the specific cloud system which will host the data. The data applicant must also provide CHIA with the name of the Cloud Service Provider and the Fed RAMP level for the specific cloud system hosting the data.

Data Delivery

CHIA delivers OOD 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 FY2019 Case Mix OOD contains 4 Microsoft Access Database (.mdb) files or 4 SAS files (.sas7bdat). Each file name will have a suffix of "_Full" or "_Full_AAAA". Full indicates a full year or final release. AAAA indicates whether the data is from an LDS or Government dataset.

- The main FIPA_OOD_2019_**Observation** (table name: Observation), contains one record per observation stay.

- FIPA_OOD_2019_**Organization** (table name: Organization) contains one record per organization reported. This table is the look-up table for hospitals and transfer destination organization identifiers. This table can be used to lookup all facility names and hospital teaching status.
- FIPA_OOD_2019_**SubmissionLog** (table name: SubmissionLog) contains one record per quarter for each of the observation facilities filing data.
- FIPA_OOD_2019_**ErrorLog** (table name: ErrorLog) contains records by quarter and by fiscal year for the number of records passed and failed and the reason for fail by IdOrgFiler.

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. Organization Ids should be used to link facility data.

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@state.ma.us**.

About the Limited Data Set (LDS)

The pre-configured Limited Data Set (LDS) is designed to protect patient data confidentiality while ensuring analytic value. All users can access 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 user 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 users. 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 FY2019 OOD, 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 government use. All approved data applicants have access to the "CORE" data. Data applicants who choose limited dataset buy-ups may have access to some "LDS" elements. Only government data applicants may request the "GOV" fields. Data applicants interested in purchasing the data should visit the CHIA website for instructions.

OBSERVATION TABLE-CORE ELEMENTS

AgeLDS	IDOrgHosp	RecordType01ID
AssocConditionPresentCode1-10	IdOrgSite	SecondarySourceOfPayment
AssociatedDiagnosisCode1-10	IdOrgTransfer	SecondarySourceOfVisit
AssociatedProcedureCode1-3	LengthOfStayHours	SexLDS
Charges	NewbornAgeWeeks	SourceOfVisit
CPTCode1-5	OtherCareGiver	SubmissionControlID
DepartureStatus	PermanentPatientCountryLDS	SubmissionQuarter
DaysBetweenObsStays	PermanentPatientStateLDS	SubmissionYear
ED_Flag	PermanentPatientZIP3CodeLDS	TemporaryPatientStateLDS
HispanicIndicator	PrimarySourceOfPayment	TemporaryPatientZIP3CodeLDS
Homeless	PrincipalConditionPresent	TypeOfVisitObs
ICDIndicator	PrincipalDiagnosisCode	VisitPassed

IdOrgFiler	PrincipalProcedureCode	NumberOfHoursInED

OBSERVATION TABLE-LDS ELEMENTS

AssociatedProcedureCode1Date-3Date	LegacyCHIAPhysicianNumber	PrincipalProcedureCodeYYYYMM
AssociatedProcedureCode1YYYYMM-YYYYMM	LegacyCHIAOtherPhysicianNumber	Race1-2
DischargeDate	ObservationSequence	RegistrationDate
DischargeMonth	OtherPhysicianNumber	RegistrationMonth
DischargeYear	PermanentPatientCityLDS	RegistrationYear
Ethnicity1-2	PermanentPatientZIP5CodeLDS	SurgeonAssociatedProcedure1-3
LegacyCHIAMothersUHIN	PhysicianNumber	TemporaryPatientCityLDS
LegacyCHIAPatientUHIN	PrincipalProcedureCodeDate	TemporaryPatientZip5CodeLDS
EmergencyDepartmentRegistrationDate		

OBSERVATION TABLE-GOVERNMENT-ONLY ELEMENTS

HospitalBillNumber	OtherRace	MedicaidMemberID
PatientBirthDate	MedicalRecordNumber	RegistrationTime
OtherEthnicity	EmergencyDepartmentRegistrationTime	EmergencyDepartmentDischargeTime
EmergencyDepartmentRegistrationHour	EmergencyDepartmentDischargeHour	EmergencyDepartmentRegistrationMinute
EmergencyDepartmentDischargeMinute		

SUBMISSION TABLE

Active idOrgFiler	SubmissionControlID	NumberofObservations
TotalCharges	OrgName	Year
Passed Quarter		

ERROR LOG TABLE

ErrorCategory	NumberofObservationsPassed	ErrorDescription
OrgName	ErrorLogKey	SubmissionActive

FieldName	SubmissionControlID	IdOrgFiler
SubmissionPassed	NumberofErrors	SubmissionQuarter
NumberofObservations	SubmissionYear	NumberofObservationsFailed

ORGANIZATION TABLE		
City	OrgID	DateInactive
OrganizationTypeID	GroupName	OrgName
OrganizationGroupID	State	OrganizationNumber
Type		

Organization of the Diagnosis and Procedure Codes

For FY2019 OOD, CHIA organizes the procedure (CPT-4 or ICD-10-PCS) and diagnosis (ICD-10-CM) fields into one main OOD table. See Figure 2 below. 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.

Figure 2. Relationship between Diagnosis Codes and Procedures Codes in Case Mix Data
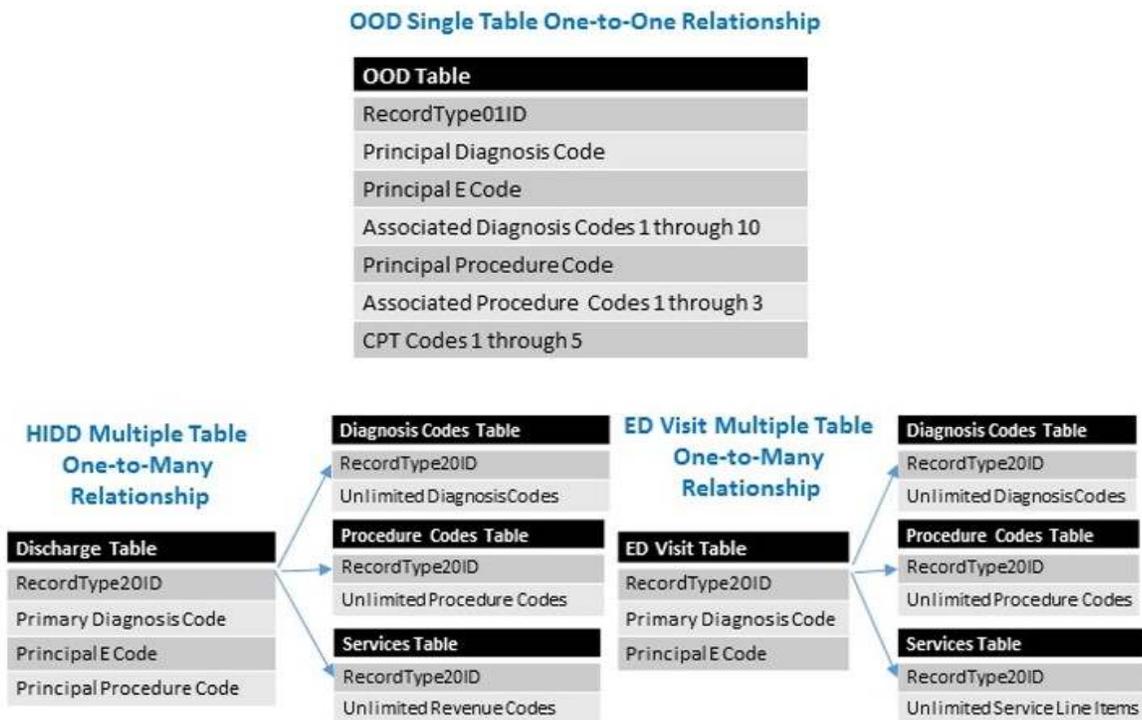
Registration Date, Discharge Date and Observation Time

The *Registration Date, Discharge Date* and *Observation Time* reflects the actual date and time that the patient visit began and was discharged from the OOD. Default values, such as 11:59 PM of the day the patient was registered, were unacceptable. Time was reported as military time, and valid values include 0000 through 2359.

ED Registration and Discharge Date and Time Data

If the Observation Stay was due to a transfer from the hospital's internal Emergency Department, then providers were asked to include the ED registration and discharge dates and times. For FY2019, release of this data is limited to Government recipients only. Time was reported as military time, and valid values include 0000 through 2359.

Organization Identifiers (OrgID)

FY2019 OOD 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 observation unit data to CHIA.
- **Massachusetts Site Organization ID (IdOrgSite):** The Organization ID for the site where the patient received outpatient observation care.
- **Massachusetts Hospital Organization ID (IdOrgHosp):** The Organization ID for the main hospital affiliation. For example 3108 (Cambridge Health Alliance) is the IdOrgHosp for the IdOrgSite 142 (Everett Hospital).
- **Massachusetts Transfer Hospital Organization ID (IdOrgTransfer):** is 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 =>1 year and < 90 years, then AgeLDS = a year between 1 and 89
- If Age is valid and > 89 and <= 115, 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 OOD is derived from outpatient observation stay summaries, which can be traced to information entered by admitting and attending health professionals into the medical record. The quality of the OOD depends on 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,
- Medical record coding, consistency, and/or completeness,
- Extent of facility data processing capabilities,
- Flexibility of facility data processing systems,
- Varying degrees of commitment to quality of merged case mix and charge data,

- 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, users may need 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). Users with questions about new data elements or changes in coding from year to year should contact CHIA at **CaseMix.data@state.ma.us**.

Data Dictionary

FY2019 OOD 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 ("GOV")
- *Type of Data:* describes if the data element is Categorical, Ordinal, Currency, 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
- *Description:* is a longer explanation of the data element and its limitations
- *Summary statistics:* links to frequencies or means for that data element
- *Reference table:* indicates if a Categorical data element has set of valid values that are associated with other information

Users of the data with additional questions about any specific data element should contact CHIA at **CaseMix.data@state.ma.us**.

Active

Short Description:	CHIA indicator of quarterly submission status.
Primary Table:	SubmissionLog
Availability to Users:	CORE
Type of Data:	Categorical
Description:	CHIA processing field.

AgeLDS

Short Description:	Age of the patient.
Primary Table:	Observation
Availability to Users:	CORE
Type of Data:	Continuous
Format:	YYY
CHIA Derived:	Yes
Description:	Age of the patient as calculated by CHIA. Rounded up to the nearest integer. Patients younger than 1 year or older than 89 years have their ages grouped.

AssocConditionPresentCode1-10

Short Description:	Flags whether the diagnosis was present on admission to Observation unit.
Primary Table:	Observation
Availability to Users:	CORE
Type of Data:	Categorical
CHIA Derived:	No
Description:	A qualifier for each diagnosis code indicating the onset of diagnosis preceded or followed by admission. These flags indicate the onset of a diagnosis preceded or followed by admission. There is a POA indicator for 97% of the diagnosis and external cause codes.

AssociatedDiagnosisCode1-10

Short Description:	ICD-10-CM code for each diagnosis reported by the facility. Up to 10 associated diagnoses in FY2019.
Primary Table:	Observation
Availability to Users:	CORE
Type of Data:	Categorical
Format:	VARCHAR
Description:	ICD-10-CM Associated Diagnosis.
Reference Table:	Standard ICD-10-CM Diagnosis Codes

AssociatedProcedureCode1-3

Short Description:	ICD-10-PCS codes for each associated significant procedure reported by the facility. Up to 3 ICD-10-PCS procedures in FY2019.
Primary Table:	Observation
Availability to Users:	CORE
Type of Data:	Categorical
Format:	VARCHAR
Description:	Patient's significant procedure, as reported in FL 74 of the UB-04. ICD code (exclude decimal point).
Reference Table:	Standard ICD-10-PCS Procedure Codes

AssociatedProcedureCode1Date-3Date

Short Description:	The date on which this procedure was performed
Primary Table:	Observation
Availability to Users:	LDS
Type of Data:	Date
Format:	YYYYMMDD
Description:	Calendar date that 1st non-primary procedure was performed.

AssociatedProcedureCode1YYYYMM-3YYYYMM

Short Description:	Month and Year in which this procedure was performed
Primary Table:	Observation
Availability to Users:	LDS
Type of Data:	Date
Format:	YYMM
Description:	Month and year that 1st non-primary procedure was performed.

Charges

Short Description:	Facility reported costs for a stay.
Primary Table:	Observation
Availability to Users:	CORE
Type of Data:	Currency
Description:	This is the grand total of charges associated with the patient's Observation 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 reported by facility.

City

Short Description:	Municipality in which the Observation unit is located.
Primary Table:	Organization
Availability to Users:	CORE
Type of Data:	Categorical
Description:	City in which Observation facility is located.

CPTCode1-5

Short Description:	CPT Code for each significant procedure reported by the facility. Up to 5 Procedures in FY2019.
Primary Table:	Observation
Availability to Users:	CORE
Type of Data:	Categorical
Reference Table:	Standard HCPCS or CPT codes

DateInactive

Short Description:	Date in which facility was inactive as an Observation facility.
Primary Table:	Organization
Availability to Users:	CORE
Type of Data:	Date
Format:	YYYMMDD
Description:	Date in which facility was inactive as an Observation facility.

DaysBetweenObsStays

Short Description:	Number of days between Observation stays as calculated by CHIA.
Primary Table:	Observation
Availability to Users:	CORE
Type of Data:	Continuous
Format:	NNN
CHIA derived:	Yes
Description:	Count of calendar days between Observation stays for a unique patient. Patients were identified using their Social Security Number. The calculation is Date of stay 2 - Date of stay 1.

DepartureStatus

Short Description:	Standardized discharge status.
Primary Table:	Observation
Availability to Users:	CORE
Type of Data:	Categorical
Format:	N
Description:	CHIA defined discharge status as reported by Observation facility. This field identifies the disposition and destination of the patient after discharge from Observation.

Reference Table:

CODE	DESCRIPTION
1	Routine
2	Admission to Hospital
3	Transferred
4	Against medical advice (AMA)
5	Expired

DischargeDate

Short Description:	Date of discharge from Observation.
Primary Table:	Observation
Availability to Users:	LDS
Type of Data:	Date
Format:	YYYYMMDD
Description:	Calendar date of discharge from Observation.

DischargeMonth

Short Description:	Month in which patient was discharged from Observation.
Primary Table:	Observation
Availability to Users:	LDS
Type of Data:	Date
Format:	MM
Description:	Month of discharge from Observation. Only two-digit values are valid.

DischargeYear

Short Description:	Year in which patient was discharged from Observation.
Primary Table:	Observation
Availability to Users:	LDS
Type of Data:	Date
Format:	YYYY
Description:	Year of discharge from Observation unit.

ED_Flag

Short Description:	Flag indicating stay began in Emergency Department.
Primary Table:	Observation
Availability to Users:	CORE
Type of Data:	Categorical
Format:	N
Description:	Indicates whether an observation stay began in the Emergency Department.
Reference Table:	

CODE	DESCRIPTION
0	Not admitted to observation from the emergency department (ED)/no ED visit(s) on this record
1	Not admitted to observation from the emergency department but ED visit(s) reflected in this record
2	Admitted to observation from the emergency department

EmergencyDepartmentRegistrationDate

Short Description:	Date of patient registration to the hospital's Emergency Department.
Primary Table:	Observation
Availability to Users:	GOV
Type of Data:	Date
Format:	YYYYMMDD
Description:	Calendar date of admission to the ED.

EmergencyDepartmentRegistrationTime

Short Description:	Time of patient registration in the hospital's Emergency Department.

Primary Table:	Observation
Availability to Users:	GOV
Type of Data:	Time
Format:	HHMM
Description:	Time at which patient was registered in the emergency department. Hours in military time (0-24 hours). Only values between 0000 and 2459 are valid.

EmergencyDepartmentDischargeDate

Short Description:	Date of patient discharge from the hospital's Emergency Department.
Primary Table:	Observation
Availability to Users:	GOV
Type of Data:	Date
Format:	YYYYMMDD
Description:	Calendar date of discharge from the ED.

EmergencyDepartmentDischargeTime

Short Description:	Time of patient discharge from the hospital's Emergency Department.
Primary Table:	Observation
Availability to Users:	GOV
Type of Data:	Time
Format:	HHMM
Description:	Time at which patient was discharged from the emergency department. Hours in military time (0-24 hours). Only values between 0000 and 2459 are valid.

ErrorCategory

Short Description:	Indicates the error on a stay record.
Primary Table:	ErrorLog
Availability to Users:	CORE
Type of Data:	Categorical
CHIA Derived:	Yes
Description:	CHIA flag. Used for processing.

ErrorDescription

Short Description:	Standardized description of the reported error.
Primary Table:	ErrorLog
Availability to Users:	CORE
Type of Data:	Open Text

Description: CHIA flag. Used for processing.

ErrorLogKey

Short Description: Unique identifier of each error.
Primary Table: ErrorLog
Availability to Users: CORE
Type of Data: Identifier
Description: Unique identifier of each error.

Ethnicity1-2

Short Description: Standardized, facility reported ethnicity.
Primary Table: Observation
Availability to Users: LDS
Type of Data: Categorical
CHIA Derived: No
Description: OOD includes two main fields to report Ethnicity: Ethnicity 1 and Ethnicity 2.
                                           The ethnicity codes are based on the CDC Race and Ethnicity Code Set:
                                           https://www.cdc.gov/nchs/data/dvs/Race_Ethnicity_CodeSet.pdf

Reference Table:

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

FieldName

Short Description: Name of the data element that caused the error.
Primary Table: ErrorLog

Availability to Users:	CORE
Type of Data:	Open Text
Description:	CHIA flag. Used for processing.

GroupName

Short Description:	Name of the system running the Observation unit.
Primary Table:	Organization
Availability to Users:	CORE
Type of Data:	Open Text
Description:	Name of the system running the Observation facility.

HispanicIndicator

Short Description:	Indicates whether patient is Hispanic.
Primary Table:	Observation
Availability to Users:	CORE
Type of Data:	Categorical
Description:	A flag for patients of Cuban, Mexican, Puerto Rican, Central American or other Spanish culture or origin regardless of race.
Reference Table:	

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

Homeless

Short Description:	Indicates whether the patient is homeless.
Primary Table:	Observation
Availability to Users:	CORE
Type of Data:	Categorical
Description:	This flag indicates that the patient was homeless at the time of stay.
Reference Table:	

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

HospitalBillNumber

Short Description: Unique patient billing record.
Primary Table: Observation
Availability to Users: GOV
Type of Data: Identifier
Description: Facility unique number associated with all billing for the stay.

ICDIndicator

Short Description: Indicates if diagnoses and procedures are ICD-9-CM or ICD-10-CM/PCS
Primary Table: Observation
Availability to Users: CORE
Type of Data: Categorical
Description: ICD version as reported by facility. CHIA does not clean nor validate this field.
Reference Table:

CODE	DESCRIPTION
0	ICD-10-CM/PCS Code
9	ICD-9 Code

IdOrgFiler

Short Description: ID number of the facility that submitted Observation claims.
Primary Table: Observation
Linking Tables: SubmissionLog
                            ErrorLog
Availability to Users: CORE
Type of Data: Categorical
Description: The Organization ID for the facility that submitted the Observation stay data to
                            CHIA.
Reference Table: Table 3

IDOrgHosp

Short Description: Facility identifier.
Primary Table: Observation
Availability to Users: CORE

Type of Data:	Categorical
Description:	The Organization ID for the main facility affiliation.
Reference Table:	Table 3

IdOrgSite

Short Description:	Facility identifier.
Primary Table:	Observation
Availability to Users:	CORE
Type of Data:	Categorical
Description:	The Organization ID for the site where the patient received Observation care.
Reference Table:	Table 3

IdOrgTransfer

Short Description:	Indicates where patient was transferred from.
Primary Table:	Observation
Availability to Users:	CORE
Type of Data:	Categorical
Description:	Organization ID for the facility from which a patient is transferred. If the patient was transferred from outside of Massachusetts, the IdOrgTransfer will be 9999999.
Reference Table:	Table 3

LegacyCHIAMothersUHIN

Short Description:	Patient's mother's unique id.
Primary Table:	Observation
Availability to Users:	GOV
Type of Data:	Identifier
Format:	VARCHAR
Length:	9
CHIA Derived:	Yes
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 identifier to her infant or assignment of a spouse's unique identifier to a patient. Invalid data uses the code UHIN=' -------4'

LegacyCHIAPatientUHIN

Short Description:	Patient's unique id.
Primary Table:	Observation
Availability to Users:	GOV
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 in 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 identifier for her infant or assignment of a spouse's unique identifier to a patient. Invalid data uses the code UHIN='--------4'.

LegacyCHIAPhysicanNumber

Short Description:	Unique identifier of the attending physician.
Primary Table:	Observation
Availability to Users:	LDS
Type of Data:	Identifier
Description:	Identifier for the Observation Physician who provided services related to this stay. Report if the physician's involvement in the patient's Observation stay was captured in the facility's electronic information systems.

LegacyCHIAOtherPhysicanNumber

Short Description:	Unique identifier of a non-attending physician.
Primary Table:	Observation
Availability to Users:	LDS
Type of Data:	Identifier
Description:	Identifier for physician other than the Observation Physician who provided services related to this stay. Report if the physician's involvement in the patient's Observation stay was captured in the facility's electronic information systems.

LengthOfStayHours

Short Description:	Count of hours spent in the Observation unit.
Primary Table:	Observation
Availability to Users:	CORE
Type of Data:	Continuous
Format:	NNN
CHIA Derived:	Yes
Description:	Count of hours between the registration and discharge time for an Observation stay.

MedicaidMemberID

Short Description:	Patient's MassHealth unique ID.
Primary Table:	Observation
Availability to Users:	GOV
Type of Data:	Identifier
Description:	Unique MassHealth Identifier of a patient.

MedicalRecordNumber

Short Description:	Stay identifier assigned by the facility.
Primary Table:	Observation
Availability to Users:	GOV
Type of Data:	Identifier
Description:	Facility specific identifier for the stay. Can be tied back to specific medical records at the facility.

NewbornAgeWeeks

Short Description:	Age of children younger than age 1.
Primary Table:	Visit
Availability to Users:	CORE
Type of Data:	Continuous

Format:	NN
CHIA Derived:	Yes
Description:	Age in weeks for children younger than 53 weeks of age who were admitted for Observation. Weeks are calculated from the Admitting Date - the DOB, and then rounded to the nearest week. Only values between 0 and 52 are valid. All other values are invalid.

NumberOfErrors

Short Description:	Count of errors in submission from Observation.
Primary Table:	ErrorLog
Availability to Users:	CORE
Type of Data:	Continuous
Description:	CHIA processing field.

NumberOfObservations

Short Description:	Count of Observation stay records for a facility in a quarter.
Primary Table:	SubmissionLog
Linking Table:	ErrorLog
Availability to Users:	CORE
Type of Data:	Continuous
Description:	Total number of registered observation stays occurring during the reporting period.

NumberOfObservationsFailed

Short Description:	Count of Observation stay records that failed CHIA intake.
Primary Table:	ErrorLog
Availability to Users:	CORE
Type of Data:	Continuous
Description:	Count of observation stay records that failed CHIA intake.

NumberOfObservationsPassed

Short Description:	Count of observation stay records that passed CHIA intake.
Primary Table:	ErrorLog
Availability to Users:	CORE
Type of Data:	Continuous
Description:	Count of observation stay records that passed CHIA intake.

ObservationSequence

Short Description:	Order in which observation stays occurred for a patient.
Primary Table:	Observation
Availability to Users:	LDS
Type of Data:	Continuous
CHIA Derived:	Yes
Description:	Numeric order of observation stays in Massachusetts for a patient based on the patient's social security number.

OrganizationGroupID

Short Description:	Code indicating the system that runs the Observation unit.
Primary Table:	Organization
Availability to Users:	CORE
Type of Data:	Categorical
Description:	Code indicating the system that runs the Observation unit.
Reference Table:	Table 3

OrganizationNumber

Short Description:	ORGID of the facility that owns the Observation unit.
Primary Table:	Organization
Availability to Users:	CORE
Type of Data:	Categorical
Description:	Identifier of the facility that owns the Observation unit.
Reference Table:	Table 3

OrganizationTypeID

Short Description:	Analogue to all the organization identifiers.
Primary Table:	Organization
Availability to Users:	CORE
Type of Data:	Categorical
Description:	Organization ID that can be linked to all "IdOrg" fields.
Reference Table:	Table 3

OrgID

Short Description:	Facility identifier.
Primary Table:	Organization

Availability to Users:	CORE
Type of Data:	Open Text
Description:	CHIA assigned identifier for a facility.
Reference Table:	Table 3

OrgName

Short Description:	Name of Observation facility.
Primary Table:	Organization
Linking Tables:	SubmissionLog
	ErrorLog
Availability to Users:	CORE
Type of Data:	Open Text
Description:	Facility name.

OtherCareGiver

Short Description:	Indicates if the patient had a caregiver.
Primary Table:	Observation
Availability to Users:	CORE
Type of Data:	Categorical
Description:	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 assistant.

Reference Table:

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

OtherEthnicity

Short Description:	Non-standard patient ethnicity designation.
Primary Table:	Observation
Availability to Users:	GOV

Type of Data:	Open Text
Description:	Patient's Ethnicity as entered by the facility. Other Ethnicity is a free text field for reporting any additional ethnicities available only to Government users.

OtherPhysicianNumber

Short Description:	Unique identifier of a non-attending physician.
Primary Table:	Observation
Availability to Users:	LDS
Type of Data:	Identifier
Description:	Physician's state license number (BORIM #) for physician other than the Observation Physician who provided services related to the stay. Report if the physician's involvement in the patient's Observation stay was captured in the facility's electronic information systems. If BORIM is unable, then must be "DENSG", "PODTR", "OTHER", "NURSEP", "PHYAST" or "MIDWIF".

OtherRace

Short Description:	Non-standard patient race designation.
Primary Table:	Observation
Availability to Users:	GOV
Type of Data:	Open Text
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".

Passed

Short Description:	CHIA processing field.
Primary Table:	SubmissionLog
Availability to Users:	CORE
Type of Data:	Continuous
Description:	Count of observation stay records that passed CHIA processing.

PatientBirthDate

Short Description:	Patient date of birth.
Primary Table:	Observation
Availability to Users:	GOV
Type of Data:	Date
Format:	YYYYMMDD
Description:	Calendar date of patient's birth.

PermanentPatientCityLDS

Short Description:	Permanent city of residence for the patient.
Primary Table:	Observation
Availability to Users:	LDS
Type of Data:	Categorical
Description:	Primary city of residency for patient.

PermanentPatientCountryLDS

Short Description:	Permanent country of residence for the patient.
Primary Table:	Observation
Availability to Users:	CORE
Type of Data:	Categorical
Description:	Primary country of residency for patient. The LDS populates PermanentPatientCountryLDS for only the countries of US, CA and MX which covers 99% of the records. The other country values for 1% of the records are suppressed.

PermanentPatientStateLDS

Short Description:	Permanent state of residence for the patient.
Primary Table:	Observation
Availability to Users:	CORE
Type of Data:	Categorical
Description:	Primary state of residency for patient. Only values in the reference table are valid. While patients from all states have received observation stay care, the LDS populates the PermanentPatientStateLDS field for only the states of MA, NH, RI, CT, ME, VT, and NY which covers 98% of the records. The other state values for 2% of the records are suppressed.

PermanentPatientZIP3CodeLDS

Short Description:	3-digit ZIP code of the patient's permanent residence.
Primary Table:	Observation
Availability to Users:	CORE
Type of Data:	ZIP code
Format:	NNN
Description:	First three digits of patient's permanent ZIP code. ZIP codes were not standardized and this field was as reported from a nine-digit ZIP code.

PermanentPatientZIP5CodeLDS

Short Description:	5-digit ZIP code of the patient's permanent residence.
Primary Table:	Observation
Availability to Users:	LDS
Type of Data:	ZIP code
Format:	NNNNN
Description:	First five digits of patient's permanent ZIP code. ZIP codes were not standardized and this field was as reported from a nine-digit ZIP code.

PhysicianNumber

Short Description:	Unique identifier of the attending physician.
Primary Table:	Observation
Availability to Users:	LDS
Type of Data:	Identifier
Description:	Physician's state license number (BORIM #) for the Observation Physician who provided services related to this stay. Report if the physician's involvement in the patient's Observation stay was captured in the facility's electronic information systems. If BORIM is unable, then must be "DENSG", "PODTR", "OTHER", "NURSEP", "PHYAST" or "MIDWIF".

PrimarySourceOfPayment

Short Description:	Primary payer for the stay.
Primary Table:	Observation
Availability to Users:	CORE
Type of Data:	Categorical
Description:	Primary payer for the Observation stay.
Reference Table:	Online at CHIA website: **Payer Codes** (Excel)

PrincipalConditionPresent

Short Description:	Flag indicating that principal condition was present on admission.
Primary Table:	Observation
Availability to Users:	CORE
Type of Data:	Categorical
Description:	Indicates that principal condition was present on admission.
Reference Table:	Table 2

PrincipalDiagnosisCode

Short Description:	ICD-10-CM code for the condition that led to the admission to the Observation unit.
Primary Table:	Observation
Availability to Users:	CORE
Type of Data:	Categorical
Description:	The condition established after study to be chiefly responsible for occasioning the admission of the patient to the observation unit. Facility determined.
Reference Table:	Standard ICD-10-CM Diagnosis Codes

PrincipalProcedureCode

Short Description:	ICD-10-PCS code for the principal procedure in the Observation unit stay.
Primary Table:	Observation
Availability to Users:	CORE
Type of Data:	Categorical
CHIA Derived:	No
Description:	The chief procedure performed in the Observation unit. Facility determined.
Reference Table:	Standard ICD-10-PCS Procedure Codes

PrincipalProcedureCodeDate

Short Description:	Date of the principal Procedure.
Primary Table:	Observation
Availability to Users:	LDS
Type of Data:	Date
Format:	YYYYMMDD
Description:	Calendar date of principal procedure.

PrincipalProcedureCodeYYYYMM

Short Description:	Month and Year of the principal procedure.
Primary Table:	Observation
Availability to Users:	LDS
Type of Data:	Date
Format:	YYYYMM
Description:	Month and year of principal procedure.

Quarter

Short Description:	Quarter of submission.

Primary Table:	SubmissionLog
Availability to Users:	CORE
Type of Data:	Categorical
Description:	Quarter in which the observation stay was submitted to CHIA.

Race1-2

Short Description:	Standardized, facility reported ethnicity.
Primary Table:	Observation
Availability to Users:	LDS
Type of Data:	Categorical
Description:	CHIA has adopted federal Office of Management and Budget standard race and ethnicity values that are consistent with CDC standards.
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

RecordType01ID

Short Description:	Stay identifier.
Primary Table:	Observation
Availability to Users:	CORE
Type of Data:	Identifier
Description:	Stay identifier used for CHIA processing.

RegistrationDate

Short Description:	Date of admission to the Observation unit.
Primary Table:	Observation
Availability to Users:	LDS
Type of Data:	Date
Format:	YYYYMMDD
Description:	Calendar date of admission to Observation.

RegistrationMonth

Short Description:	Month of admission to the Observation unit.
Primary Table:	Observation
Availability to Users:	LDS
Type of Data:	Date
Format:	MM
Description:	Month in which the patient was admitted to Observation. Only values between 1 and 12 are valid.

RegistrationTime

Short Description:	Time stamp indicating when the patient was admitted to the Observation unit.
Primary Table:	Observation
Availability to Users:	GOV
Type of Data:	Time
Format:	HHMM
Description:	Time at which the patient was admitted to Observation. Hours in military time (0-24 hours). Only values between 0000 and 2459 are valid.

RegistrationYear

Short Description:	Year of admission to the Observation unit.
Primary Table:	Observation
Availability to Users:	LDS
Type of Data:	Date
Format:	YYYY
Description:	Year patient was admitted to Observation.

SecondarySourceOfPayment

Short Description:	Secondary payer for the stay.
Primary Table:	Observation
Availability to Users:	CORE
Type of Data:	Categorical
Description:	Secondary payer for the observation stay.
Reference Table:	Online at CHIA website: **Payer Codes** (Excel)

SecondarySourceOfVisit

Short Description: Secondary cause of stay.

Primary Table: Observation

Availability to Users: CORE

Type of Data: Categorical

Description: The two sources of stay codes (Source of stay and Secondary Source of stay) which indicate the source originating, referring or transferring the patient to Observation. Please note that the terms "visit" and "stay" are used interchangeably for observation services.

Reference Table: Table 1

SexLDS

Short Description: Standardized gender assignment of the patient.

Primary Table: Observation

Availability to Users: CORE

Type of Data: Categorical

Description: Gender of the patient.

Reference Table:

CODE	DESCRIPTION
M	Male
F	Female
U	Unknown

SourceOfVisit

Short Description: How a patient reached the Observation unit.

Primary Table: Observation

Availability to Users: CORE

Type of Data: Categorical

CHIA Derived: No

Description: The two sources of stay codes (Source of Visit and Secondary Source of Visit) which indicate the source originating, referring or transferring the patient to Observation. Reporting patterns for the Source of Visit data element may vary widely and, as a result, may not be reliable. Please note that the terms "visit" and "stay" are used interchangeably for observation services.

Reference Table: Table 1

State

Short Description:	Facility state.
Primary Table:	Organization
Availability to Users:	CORE
Type of Data:	Categorical
Description:	State in which reporting facility is located.

SubmissionActive

Short Description:	CHIA flag.
Primary Table:	ErrorLog
Availability to Users:	CORE
Type of Data:	Identifier
CHIA Derived:	Yes
Description:	CHIA flag. Used for processing.

SubmissionControlID

Short Description:	Unique facility-quarter-submission identifier. Key link from the stay table.
Primary Table:	Observation
Linking Tables:	SubmissionLog
	ErrorLog
Availability to Users:	CORE
Type of Data:	Identifier
Description:	Unique id for a facility's submission of data to CHIA. Usually one Submission Control ID is associated with a facilities' quarterly submission.

SubmissionPassed

Short Description:	CHIA flag.
Primary Table:	ErrorLog
Availability to Users:	CORE
Type of Data:	Identifier
CHIA Derived:	Yes
Description:	Indicates that observation stay data was submitted to CHIA and passed.

SubmissionQuarter

Short Description:	Indicates the quarter (1-4) in which the record was submitted to CHIA.
Primary Table:	Observation

Linking Tables:	ErrorLog
Availability to Users:	CORE
Type of Data:	Categorical
Description:	Quarter in which the observation stay data was submitted to CHIA.

SubmissionYear

Short Description:	Indicates the year (2018-2019) in which the record was submitted to CHIA.
Primary Table:	Observation
Linking Tables:	ErrorLog
Availability to Users:	CORE
Type of Data:	Categorical
Description:	Year in which the observation stay data was submitted to CHIA.

SurgeonAssociatedProcedure1-3

Short Description:	ICD-10-PCS or CPT code for each significant procedure reported by the facility. Up to 3 procedures in FY2019.
Primary Table:	Observation
Availability to Users:	LDS
Type of Data:	Categorical
Description:	Patient's significant procedure, as reported in FL 74 of the UB-04. ICD code (exclude decimal point).
Reference Table:	Standard ICD-10-PCS Procedure Codes

TemporaryPatientCityLDS

Short Description:	Current city of patient residence, if different from permanent residence.
Primary Table:	Observation
Availability to Users:	LDS
Type of Data:	Categorical
Description:	MA City in which the patient temporarily resides.

TemporaryPatientStateLDS

Short Description:	Current state of patient residence, if different from permanent residence.
Primary Table:	Observation
Availability to Users:	CORE
Type of Data:	Categorical
Description:	Indicates "MA" if the patient temporarily resides in Massachusetts.

TemporaryPatientZip3CodeLDS

Short Description:	Current 3-digit ZIP code of patient residence, if different from permanent residence.
Primary Table:	Observation
Availability to Users:	CORE
Type of Data:	ZIP code
Format:	NNN
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 (LDS) 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 was not in Massachusetts or a state bordering Massachusetts (Connecticut, Maine, New Hampshire, New York, Rhode Island or Vermont), ZIP codes were set to zeros (0s) and the state was removed.

TemporaryPatientZip5CodeLDS

Short Description:	Current 5-digit ZIP code of patient residence, if different from permanent residence.
Primary Table:	Observation
Availability to Users:	LDS
Type of Data:	ZIP code
Format:	NNNNN
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 (LDS) 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 was not in Massachusetts or a state bordering Massachusetts (Connecticut, Maine, New Hampshire, New York, Rhode Island or Vermont), ZIP codes were set to zeros (0s) and the state was removed.

TotalCharges

Short Description:	Total charges associated with Observation stay(s) in a Facility-Submission-Quarter.
Primary Table:	SubmissionLog
Availability to Users:	CORE
Type of Data:	Currency
Description:	Sum of charges for the submission.

Type

Short Description:	Indicates the type of facility where stay occurred.
Primary Table:	Organization

Availability to Users: CORE
Type of Data: Categorical
Description: Categorizes observation stays by facility type. Curated by CHIA.

TypeVisitObs

Short Description: Indicates the type of stay.
Primary Table: Observation
Availability to Users: CORE
Type of Data: Categorical
Description: Facilities indicate whether the stay was Emergency, Urgent, Non-Urgent, Newborn, or Unavailable.

Reference Table:

CODE	DESCRIPTION
1	Emergency
2	Urgent
3	Elective
4	Newborn
5	Information not available

VisitPassed

Short Description: CHIA flag.
Primary Table: Observation
Availability to Users: CORE
Type of Data: Identifier
Description: CHIA flag. Used for processing.

Year

Short Description: Indicates year of submission.
Primary Table: SubmissionLog
Availability to Users: CORE
Type of Data: Categorical
Description: Calendar Year the data was submitted.

Longer Reference Tables

FY2019 OOD has several standard reference tables. These relate to categorical variables driven by the Outpatient Observation Database 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@state.ma.us**.

Table 1. SOURCE OF VISIT

Principal Data Element:	SourceOfVisit
Other Data Elements:	SecondarySourceofVisit
Rules:	All other values are invalid

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
L	Outside Hospital Clinic Referral
M	Walk-In/Self-Referral
R	Inside Hospital ER Transfer
T	Transfer from Another Institution's Ambulatory Surgery (SDS)
W	Extramural Birth
Y	Within Hospital Ambulatory Surgery Transfer (SDS Transfer)

Table 2. CONDITION PRESENT

Principal Data Element: Principal ConditionPresent

Rules: All other values invalid.

CODE	DESCRIPTION
Y	Yes
N	No
U	Unknown
W	Clinically undetermined
1	Exempt
A	Not applicable

Table 3. ORGANIZATION

Data Elements: IdOrgFiler
IdOrgHosp
IdOrgSite
IdOrgTransfer
OrgID

CODE	DESCRIPTION
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 – Cambridge Hospital

CODE	DESCRIPTION
39	Cape Cod Hospital
40	Falmouth Hospital
41	Steward - Norwood Hospital
42	Steward - Carney Hospital
46	Boston Children's Hospital
49	MetroWest Medical Center - Framingham Union Hospital 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
68	Harrington Memorial Hospital
71	Health Alliance - Clinton Hospital - Leominster Campus
73	Heywood Hospital
75	Steward - Holy Family Hospital
77	Holyoke Medical Center
79	Beth Israel Deaconess Hospital - Plymouth
81	Lahey Hospital & Medical Center - Burlington
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 Hospital - Milton
99	Steward - Morton Hospital
100	Mount Auburn Hospital

CODE	DESCRIPTION
101	Nantucket Cottage Hospital
103	New England Baptist Hospital
104	Tufts-New England Medical Center
105	Newton-Wellesley Hospital
106	Baystate Noble Hospital
109	Lahey Health - Addison Gilbert Hospital Campus
110	Lahey Health - Beverly Hospital Campus
114	Steward - Saint Anne's Hospital
115	Lowell General Hospital - Saints Campus
116	North Shore Medical Center, Inc. - Salem Campus
119	Mercy Medical Center - Springfield Campus
122	South Shore Hospital
123	Southcoast Hospitals Group - Charlton Memorial Hospital Campus
124	Southcoast Hospitals Group - St. Luke's Hospital Campus
126	Steward - St. Elizabeth's Medical Center
127	Saint Vincent Hospital
129	Sturdy Memorial Hospital
130	UMass Memorial Medical Center - Memorial Campus
131	UMass Memorial Medical Center - University Campus
132	Health Alliance - Clinton Hospital
133	Marlborough Hospital
138	Winchester Hospital
139	Baystate Wing Memorial Hospital
141	Melrose Wakefield Healthcare - Melrose-Wakefield Hospital Campus
142	Cambridge Health Alliance – Everett Hospital Campus (fka Whidden Memorial)
143	Cambridge Health Alliance - Somerville Campus
145	Southcoast Hospitals Group - Tobey Hospital Campus
457	MetroWest Medical Center - Leonard Morse Hospital Campus

CODE	DESCRIPTION
4448	Lahey Medical Center - Peabody
6693	Shriners Hospitals for Children - Boston
11466	Steward - Holy Family Hospital at Merrimack Valley
11467	Steward - Nashoba Valley Medical Center
11718	Shriners Hospitals for Children - Springfield

Table 4. PAYER TYPE

Principal Data Element: PayerType

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
4	MCD	Medicaid
B	MCD-MC	Medicaid Managed Care
5	GOV	Other Government Payment
6	BCBS	Blue Cross
C	BCBS-MC	Blue Cross Managed Care
7	COM	Commercial Insurance
D	COM-MC	Commercial Managed Care
8	HMO	HMO
9	FC	Free Care
0	OTH	Other Non-Managed Care Plans

PAYER TYPE CODE	PAYER TYPE ABBREVIATION	PAYER TYPE DEFINITION
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
Q	ComCare	Commonwealth Care/ConnectorCare Plans
Z	DEN	Dental Plans
N	None	None (Valid only for Secondary Payer)

Table 5. STATE

Principal Data Element: PermanentPatientStateLDS

Other Data Elements: TemporaryPatientStateLDS

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/Caveats

At the time of this publication the following data notes were present. As data findings occur, CHIA will update the FY19 OOD Release Notes published on the CHIA website at **https://www.chiamass.gov/case-mix-data/**. Data notes will not be regularly updated in this Documentation Manual.

- Lawrence Memorial Hospital (Org Id 66) did not have any Observation Stay data to report in FY19. They consolidated ICU and inpatient Medical/Surgical services to their MelroseWakefield Hospital Campus (Org Id 141) and subsequently closed their Emergency Department in March 2019.
- Cape Cod Hospital (Org Id 39), Falmouth Hospital (Org Id 40), Emerson Hospital (Org Id 57) and Milford Regional Medical Center (Org Id 97) incorrectly included a decimal when reporting Principal External Cause Code in FY19. Due to timing, resubmissions were not able to be included in the Final OOD FY19 release but corrections will be made for FY20.

Prior to releasing the Final FY2019 Hospital Outpatient Observation Data, 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:

- MetroWest Medical Center -– Framingham Union Hospital Campus (Org Id 49), Leonard Morse Hospital Campus (Org Id 457) and Saint Vincent Hospital (Org Id 127):
  - Patient ZIP Code extensions were incorrectly reported in FY19. The hyphen was included in the data field resulting in invalid data. This is under review by the hospital and will be corrected for FY20.
  - Registered Time and Day of Week in the ED was not reported for FY19. This is under review by the hospital and will be corrected for FY20.
- Milford Regional Medical Center (Org Id 97):
  - Due to timing of file submissions, the validation reports for Top 10 Principal Procedure Code and Top 10 Principal External Cause Code could not be reviewed for FY19. However, the reported data passed validation thresholds.
- Southcoast Hospitals Group -– Charlton Memorial Hospital Campus (Org Id 123), St. Luke's Hospital Campus (Org Id 124) and Tobey Hospital Campus (Org Id 145):
  - Noted discrepancies with Top 10 Principal Procedure Code for FY19. The validation report does not reflect internal hospital records.
  - Noted all records reported with Unknown Social Security Number due to non-collection of this data.

End User Support

Data documentation for Case Mix data releases can be accessed at **http://www.chiamass.gov/case-mix-data/** . For more information about specific data elements, facility reporting, or other questions about the data, please contact CHIA by emailing **CaseMix.data@state.ma.us**.