CENTER FOR HEALTH INFOMATION AND ANALYSIS

**MASSACHUSETTS CASE MIX** OUTPATIENT

OBSERVATION DATA (OOD)

FISCAL YEAR 2016

DOCUMENTATION MANUAL V1.00

**CHIA**

Massachusetts Case Mix

Outpatient Observation Data (OOD) FY2016

**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 stays that did not end in an inpatient admission. Data on patients transferred to acute inpatient facilities can be found in the FY2016 Hospital Discharge Database. The FY2016

Outpatient Observation Database (OOD) includes observation stays that occurred between October 1, 2015 and

September 30, 2016. Facilities reported a total of 216,280 stays.

The FY2016 Outpatient Observation Database Guide provides general information about CHIA’s most recent observation 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).

**New in FY 2016**

CHIA reported diagnoses using ICD-10-CM (International Classification of Diseases, Tenth Revision, Clinical Modification). If procedures were performed they were captured using the ICD-10-PCS (International Classification of Diseases, Tenth Revision, Procedure Coding System) or the HCPCS/CPT systems. Very few stays had an ICD Indicator flag that identified ICD-9 codes. If a diagnosis did not match the code tables for each ICD Code set, that value was replaced by a “-“ to indicate it was invalid for that ICD type.

Selected facilities in Massachusetts were required to submit stay data to CHIA under *957 CMR 8.00 - APCD and Case Mix Data Submission*. Researchers can access OOD regulations through CHIA’s web site [[**http://www.chiamass.gov/regulations**]](http://www.chiamass.gov/regulations). 957 CMR 8.00 - APCD and Case Mix Data Submission requires facilities to submit stay data to CHIA 75 days after each quarter. The quarterly reporting intervals for the FY2016 OOD were as follows:

 **Quarter 1:** October 1, 2015 - December 31, 2015

 **Quarter 2:** January 1, 2016 – March 31, 2016

 **Quarter 3:** April 1, 2016 – June 30, 2016

 **Quarter 4:** July 1, 2016 – September 30, 2016

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 was 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 were rejected, CHIA rejects the entire submission. Each facility receives a quarterly error report displaying invalid stay information. Quarterly data that did not meet the one percent compliance standard must be resubmitted by the reporting facility until the standard was 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 facility, was considered an observation stay.

Observation services were furnished on a hospital’s premises, and were reasonable and necessary to further evaluate the patient’s condition and provide treatment to determine the need for possible admission to the hospital. These services include the use of a bed and periodic monitoring by a hospital’s physician, nursing and other staff. An observation stay occurs even if the only service provided to a registered patient was triage or screening. Observation services were further defined in the HURM § 3241.

**Observation stays data in other CHIA databases**

Observation stays that began in the emergency department will have a positive value in the FY2016 OOD field “ED Indicator”. Observation stays were not included in the FY2016 Emergency Department Database.

If the patient was admitted to inpatient care, observation services were reported as inpatient observation services and included in the inpatient discharge record. Data users interested in observation stays that result in an inpatient stay should use the FY2016 HIDD. The HIDD databases have an “Observation Indicator” flag which will identify admissions that included an observation stay.

**OOD Verification Report Process**

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

CHIA produces facility specific Verification Reports after each facility successfully submits four quarters of data. 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 were not limited to, the number of stays per month and breakouts by admission type, admission source, race, and disposition.

Facilities must affirm that reported data was accurate or identify any discrepancies. Facilities certify the accuracy 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 was accurate and that it represents the facility’s case mix profile.

 **B:** A facility indicates that the data on the report was accurate except for the discrepancies noted. If any

data discrepancies existed, CHIA requested that facilities provide written explanations of the discrepancies.

Users interested in the FY2016 OOD Verification Reports should contact CHIA at **C**[**aseMix.data@state.ma.us**](mailto:CaseMix.data@state.ma.us). Please indicate the fiscal year of the Verification Report, the dataset name, and if you need information for a specific facility or set of facilities.

**Data Limitations**

The OOD was derived from information entered by admitting and attending health professionals into the medical record. The quality of the OOD was 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,

 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 through 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, especially when analyzing multi-year trends. In order to maintain consistency across years, it may be necessary to merge some of codes used for specific data elements. Users with questions about new data elements or changes in coding from year to year should contact CHIA at [**CaseMix.data@state.ma.us**](mailto:CaseMix.data@state.ma.us).

Part B: Applying for CHIA Data

Researchers interested in receiving CHIA data should follow the instructions below to receive access to the data.

**How to Apply for the Data**

 To obtain a copy of the Data Use Agreement and/or other documents required for application, go to

[**http://www.chiamass.gov/chia**](http://www.chiamass.gov/chia-data/)**-data/**

 Follow the links to the forms that correspond to the data (Case Mix, APCD) and application type

(Government, non-Government) that were appropriate to your data request.

 For FY2016, non-Government users can access pre-configured Limited Data Set (LDS), designed to protect patient data confidentiality while ensuring analytic value. This streamlined approach also improves CHIA’s ability to deliver the data efficiently.

**Securing CHIA Data Prior to Use**

As an approved data recipient, or its agent, you were obliged by your application and confidentiality agreement to secure this 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 OOD on CD-ROMs. Users must be able to meet the following Hardware, and CD requirements. As well, users must be able to read and download the data files to their back office.

 CD ROM Device

 Encrypted Hard Drive with 2.0 GB of space available

**CD Contents**

The FY2016 Case Mix OOD CD contains 4 Microsoft Access Database (.mdb) files or 4 SAS files (.sas7bdat). Depending on your view of the data, each file name will have a suffix of “\_Full” or “\_Full\_AAAA”. Full indicates a full year or final release. AAAA indicates the specific view of the data and whether you’ve received an LDS or Government dataset.

 The main FIPA\_OOD\_2016\_**Observation** (table name: Observation), contains one record per observation stay.

 FIPA\_OOD\_2016\_**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\_2016\_**SubmissionLog** (table name: DataSubmissionLog) contains one record per quarter for each of the observation facilities filing data.

 FIPA\_OOD\_2016\_**ErrorLog** (table name: ErrorLog) contains records by quarter and by fiscal year on the number of records passed and failed and the edit description reason for fail for each error flagged in a submission by IdOrgFiler.

**Linking Files**

Historically, case mix data users receive a Microsoft Access version of the data and use the data directly in Access or import into it into STATA, SPSS, SAS, and R. 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**](mailto:CaseMix.data@state.ma.us)**.**

**About the Limited Data Set (LDS)**

The pre-configured Limited Data Set (LDS) was designed to protect patient data confidentiality while ensuring analytic value. All users can access the “core” data elements. Users wishing 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 users must specifically identify requested Government-Only elements in their application.

**Master Data Elements List**

For the FY2016 OOD, CHIA generated a master data elements list by table. Not every user has access to every data element – some are reserved for limited dataset buy-ups or for government use. All users have access to the

“CORE” data. Users who choose limited dataset buy-ups may have received access to some “LDS” elements. Only government users may have access to the “GOV” fields. Users interested in purchasing the data should visit the CHIA website for instructions.

**OBSERVATION TABLE-CORE ELEMENTS**

|  |  |  |
| --- | --- | --- |
| AgeLDS | IDOrgHosp | RecordType01ID |
| AssocConditionPresentCode1-5 | IdOrgSite | SecondarySourceOfPayment |
| AssociatedDiagnosisCode1-5 | 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 |  |

**OBSERVATION TABLE-LDS ELEMENTS**

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

LegacyCHIAPatientUHIN PrincipalProcedureCodeDate TemporaryPatientZip5CodeLDS

**OBSERVATION TABLE-GOVERNMENT-ONLY ELEMENTS** HospitalBillNumber OtherRace MedicaidMemberID PatientBirthDate MedicalRecordNumber RegistrationTime

OtherEthnicity

**DATASUBMISSIONTABLE** Active NumberOfObservations Passed

Quarter

TotalCharges Year OrgName IdOrgFiler

SubmissionControlID

**ERRORLOGTABLE**

ErrorCategory OrgName ErrorDescription IdOrgFiler ErrorLogKey SubmissionControlID

FieldName NumberOfObservations

NumberOfErrors SubmissionQuarter NumberOfObservationsFailed SubmissionYear NumberOfObservationsPassed

SubmissionActive

SubmissionPassed

**ORGANIZATION TABLE**

City OrgID

DateInactive OrganzationTypeID GroupName OrgName OrganizationGroupID State

OrganizationNumber Type

**Age LDS**

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

 Age was calculated to be the rounded integer value – of the difference between Date of

Birth and Discharge date.

 Age was zero when less than 1 year.

 If Age was valid and < 90, then AgeLDS = Age;

 If Age was valid and > 89 and <= 115, AgeLDS = 999

 If Age was missing, negative value, or value > 115, then AgeLDS = null

**Diagnosis, E-Codes, and Procedure Codes**

For FY2016, CHIA organized the diagnosis, e-codes, and procedure fields into principal and associated codes on the Visit table. Diagnoses and procedures were ordered as submitted observation units to CHIA. CHIA did not require the order of diagnoses and procedures to be medically relevant. CHIA has not affirmed or confirmed the medical relevancy of the principal diagnosis, procedure, or e-codes. .

**Discharge Date and Discharge Time**

The *Discharge Date and Discharge Time* reflects the actual date and time that the patient 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.

**Organization table and identifiers**

In the files that CHIA releases to users, there was for some users, an “Organization” file which contain 1 record for every valid organization identifier reported in the Discharge database. This record contains information about the organization that submitted the data.

FY2016 OOD contained four organization identifier fields. Most facilities provided emergency care at only one location. Therefore, they were considered to have a single campus or site, and needed to summarize their data only once. However, facilities may have submitted data about care provided at multiple sites. CHIA required the latter to summarize their data separately.

 **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) was the IdOrgHosp for the IdOrgSite 142 (Whidden Hospital).

 **Massachusetts Transfer Hospital Organization ID (IdOrgTransfer):** is the Organization ID for the facility from which a patient is transferred. If the patient was transferred from outside of Massachusetts, the IdOrgTransfer would be 9999999.

**Data Limitations**

The OOD was derived from information entered by admitting and attending health professionals into the medical record. The quality of the OOD depended 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, uses may need to merge some codes used for specific data elements. Users with questions about new data elements or changes in coding from year to year should contact CHIA at [**CaseMix.data@state.ma.us**](mailto:CaseMix.data@state.ma.us).

**Data Dictionary**

FY2016 OOD data dictionary provides metadata for the following attributes:

 *Data Element* name as it appears in the file

 *Short description:* to help users understand the 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

 *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**](mailto:CaseMix.data@state.ma.us).



**Active**

**Short Description** CHIA indicator of quarterly submission status.

**Primary Table:** DataSubmissionLog

**Availability to Users:** CORE

**Type of Data:** Identifier

**Description** Chia processing field.

**AgeLDS**

**Short Description** Age of the patient. **Primary Table:** Observation **Availability to Users:** CORE

**Type of Data:** Continuous

**Format:** YY

**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 80 years have their ages grouped.

**AssocConditionPresentCode1-5**

**Short Description** Flags whether the diagnosis was present on admission to Observation unit.

**Primary Table:** Observation

**Availability to Users:** CORE

**Type of Data:** Categorical

**Format:** N

**CHIA derived** No

**Description** A qualifier for each diagnosis code indicating the onset of diagnosis preceded or followed admission. These flags indicate the onset of a diagnosis preceded or followed admission. There was a POA indicator for every diagnosis and E- code.

**Reference Table Error! Reference source not found.**Online as Payer Codes (Excel)

[http://www.chiamass.gov/information-for-data-submitters-acute-hospital-c](http://www.chiamass.gov/information-for-data-submitters-acute-hospital-case-mix/)ase-

[mix/](http://www.chiamass.gov/information-for-data-submitters-acute-hospital-case-mix/)**]**

**AssociatedDiagnosisCode1-5**

**Short Description** ICD-10 code for each diagnosis reported by the facility. Up to 5 diagnoses in

FY2016. **Primary Table:** Observation **Availability to Users:** CORE

**Type of Data:** Categorical

**Format:** ANNNNNN

**Description** ICD-10 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 was present. Associated External Cause

Codes may be: ICD-10-CM (E800-E999) -OR- ICD-10 (V00-Y84.9) and supplemental codes: (Y90-Y99) (place of injury, activity, status).

**Reference Table** Standard ICD-10 Diagnosis Codes

**AssociatedProcedureCode1-3**

**Short Description** ICD-10 or CPT code for each significant procedure reported by the facility. Up to 3 procedures in FY2016.

**Primary Table:** Observation

**Availability to Users:** CORE

**Type of Data:** Categorical

**Format:** ANNNNNN

**Description** Patient’s significant procedure, as reported in FL 74 of the UB-04. ICD code

(exclude decimal point) .

**Reference Table** Standard ICD-10 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 1st non-primary procedure was performed

**AssociatedProcedureCode1YYYYMM-3YYYYMM**

**Short Description** Month and Year on 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:** Continuous

**Description** This was 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 was not permitted unless the patient has a special Departure Status. Reported by facility's. Not Allowed or Negotiated Amounts. Not the actual dollars paid to the facility for care.

**Summary Statistics** Table 6

**City**

**Short Description** Municipality in which the Observation unit was located.

**Primary Table:** Organization

**Availability to Users:** CORE

**Type of Data:** Categorical

**Description** City in which Observation facility was located.

**CPTCode1-5**

**Short Description** CPT code for each significant procedure reported by the facility. Up to 5

Procedures in FY2016. **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** CHIA derive field to allow for easy calculation of number of days between

Observation stays. **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 calculations was Date of stay 2 - Date of stay 1.

**Reference Table** Table 6

**DepartureStatus**

**Short Description** Gives a 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 the Observation..

**Summary Statistics** Table 7

**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 the 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 were 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.

**Summary Statistics** Table 8

**Reference table CODE DESCRIPTION**

0 No admitted to observation through the emergency department/no emergency department visit reflected on this record

1 Not admitted to observation from the emergency department but emergency department visits reflected in this record

2 Admitted to observation from the emergency department

**ErrorCategory**

**Short Description** Indicates what the error was on a stay record.

**Primary Table:** ErrorLog **Availability to Users:** CORE **Type of Data:** Identifier **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 identifies each error.

**Primary Table:** ErrorLog **Availability to Users:** CORE **Type of Data:** Identifier

**Description** Unique identifies each error.

**Ethnicity1-2**

**Short Description** Standardized, facility report ethnicity.

**Primary Table:** Observation

**Availability to Users:** LDS

**Type of Data:** Categorical

**CHIA derived** No

**Description** OOA includes two main fields to report Ethnicity: Ethnicity 1 and Ethnicity 2.

The ethnicity codes were based on the CDC race/ethnicity code

[[http://www.cdc.gov/nchs/data/dvs/Race\_Ethnicity\_CodeSet.](http://www.cdc.gov/nchs/data/dvs/Race_Ethnicity_CodeSet.pdf)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 was Hispanic.

**Primary Table:** Observation

**Availability to Users:** CORE

**Type of Data:** Categorical

**Description** A flag for patients of Cuban, Mexican, Puerto Rican or Central American or other Spanish or other Spanish culture or origin regardless of race.

**Summary Statistics** Table 9

**Reference Table CODE DESCRIPTION**

Y Patient is Hispanic/Latino/Spanish.

N Patient is not Hispanic/Latino/Spanish.

**Homeless**

**Short Description** Indicates whether the patient was 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.

**Summary Statistics** Table 10

**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 were using ICD-10 or ICD-10

**Primary Table:** Observation

**Availability to Users:** CORE

**Type of Data:** Categorical

**Description** ICD version as reported by facility. CHIA did not clean nor validate this field.

**Summary Statistics** Table 11

**Reference Table CODE DESCRIPTION**

0 ICD-10 code

9 ICD-9 Code

**IdOrgFiler**

**Short Description** ID number of the facility that submitted Observation claims.

**Primary Table:** Observation

**Linking Tables:** DataSubmissionLog

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

**CHIA derived** No

**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 to.

**Primary Table:** Observation

**Availability to Users:** CORE

**Type of Data:** Categorical

**Description** Organization ID for the facility from which a patient was 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 identifiers to her infant or assignment of a spouse’s

unique identifiers 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 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”.

**LegacyCHIAPhysicanNumber**

**Short Description** Uniquely identifies 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** Idenfitier 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 admitting and discharge time for an Observation stay.

**Summary Statistics** Table 6

**MedicaidMemberID**

**Short Description** Patient's MassHealth unique ID.

**Primary Table:** Observation **Availability to Users:** GOV-REQ **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 to the Observation. Weeks were calculated from the Admitting Date - the DOB, and then rounded to the nearest week. Only values between 0 and 52

were valid. All other values were 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 the number of observation stays for that facility in that quarter,

**Primary Table:** DataSubmissionLog **Linking Tables:** 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 stays records that failed CHIA intake.

**Primary Table:** ErrorLog

**Availability to Users:** CORE

**Type of Data:** Continuous

**Description** Count of observation stays records that failed CHIA intake.

**NumberOfObservationsPassed**

**Short Description** Count of observation stays records that passed CHIA intake.

**Primary Table:** ErrorLog

**Availability to Users:** CORE

**Type of Data:** Continuous

**Description** Count of observation stays records that passed CHIA intake.

**ObservationSequence**

**Short Description** Order in which observation stays occurred for this 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** Organzation 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:** DataSubmissionLog

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** 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.

**Summary Statistics TABLE 12**

**Reference Table CODE DESCRIPTION**

1 Resident

2 Intern

*3* Nurse Practitioner

4 Not Used

5 Physician Assistant

**OtherEthnicity**

**Short Description** Non-standard patient ethnicity designations.

**Primary Table:** Observation

**Availability to Users:** GOV

**Type of Data:** Open Text

**Description** Patient’s Ethnicity as entered by the facility. Other Ethnicity was 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 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.

**OtherRace**

**Short Description** Non-standard patient race designations.

**Primary Table:** Observation

**Availability to Users:** GOV

**Type of Data:** Open Text

**Description** Patient’s Race as entered by the facility. Other Race was 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:** DataSubmissionLog **Availability to Users:** CORE

**Type of Data:** Continuous

**Description** Count of the number of observation stays 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.

**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.

**Reference Table** Table 5

**PermanentPatientZIP3CodeLDS**

**Short Description** 3-digit zip code of the patient's permanent residence.

**Primary Table:** Observation

**Availability to Users:** CORE **Type of Data:** Zipcode **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-sigit zip code of the patient's permanent residence.

**Primary Table:** Observation

**Availability to Users:** LDS **Type of Data:** Zipcode **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** Uniquely identifies 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 Error! Reference source not found.**

**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.

**Summary Statistics** 0

**Reference Table** Table 2

**PrincipalDiagnosisCode**

**Short Description** ICD-10 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 Diagnosis Codes

**PrincipalProcedureCode**

**Short Description** ICD-10 code for the most import 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. Facility determined.

**Reference Table** Standard ICD-10 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:** DataSubmissionLog **Availability to Users:** CORE

**Type of Data:** Categorical

Description Quarter in which the 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 were consistent with CDC standards.

**Summary Statistics** Table 14

**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

R1 American Indian/Alaska Native

R2 Asian

R3 Black/African American

**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 the 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** Calendar date of admission to Observation. Only values between 1 and 31

were valid

**RegistrationTime**

**Short Description** Time stamp indicating when the patient was admitted the Observation unit.

**Primary Table:** Observation

**Availability to Users:** GOV **Type of Data:** Time **Format:** HH:MM:SS

**Description** Time at which the patient was admitted to the Observation. Hours in military

time (0-24 hours) Only values between 00:00:00 and 24:59:59 were 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 as 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 this stay.

**Reference Table** online as Payer Codes (Excel) **[**[**http://www.chiamass.gov/information**](http://www.chiamass.gov/information-for-data-submitters-acute-hospital-case-mix/)**-for-** [**data-submitters-acute-hospital-case-mix/**](http://www.chiamass.gov/information-for-data-submitters-acute-hospital-case-mix/) **]**

**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) codes indicate the source of originating, referring or transferring the patient to the 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. **Summary Statistics** TABLE 15

**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) codes indicate the source of originating, referring or transferring the patient to the Observation. Reporting patterns for the Source of Vist 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 was located

**Reference Table** Table 5

**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 per facility-quarter-submission. Key to link from the stay table .

**Primary Table:** Observation

**Linking Tables:** DataSubmissionLog

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 was associated with a facilities quarterly submissions.

**SubmissionPassed**

**Short Description** CHIA flag. **Primary Table:** ErrorLog **Availability to Users:** CORE **Type of Data:** Identifier **CHIA derived** Yes

**Description** Indicates that stay 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 stay was submitted to CHIA.

**SubmissionYear**

**Short Description** Indicates the year (2015-2016) 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 stay was submitted to CHIA.

**SurgeonAssociatedProcedure1-3**

**Short Description** ICD-10 or CPT code for each significant procedure reported by the facility. Up to 3 procedures in FY2016.

**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 Procedure Codes

**TemporaryPatientCityLDS**

**Short Description** Current municipality of residence for a patient, 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 residence for a patient, 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.

**Reference Table** Table 5

**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:** Zipcode **Format:** NNN

**Description** First three digits of patient's temporary, Massachusetts zip code. Zip codes were not standardized and this field was 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 was not in Massachusetts or a state bordering Massachusetts (Connecticut, Maine, New Hampshire, New York, or Rhode Island) 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:** Zipcode **Format:** NNNNN

**Description** First five digits of patient's temporary, Massachusetts zip code. Zip codes were not standardized and this field was 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 was not in Massachusetts or a state bordering Massachusetts (Connecticut, Maine, New Hampshire, New York, or Rhode Island) zip codes were set to

zeros (0s) and the state was removed.

**TotalCharges**

**Short Description** Total charges associated with Observation stays in a Facility-Submission- Quarter.

**Primary Table:** DataSubmissionLog

**Availability to Users:** CORE

**Type of Data:** Continuous

**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.

**Summary Statistics** Table 17

**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:** DataSubmissionLog **Availability to Users:** CORE

**Type of Data:** Categorical

**Description** Calendar Year the data was submitted.

**Longer Reference Tables**

FY2016 ODD has several standard reference tables. These relate to categorical variables were driven by the *Outpatient Observation Database March 2014 Submission Guide*. Some of the tables have been integrated into the data dictionary. This section contains longer tables to tables used by multiple data elements. Users of the data with additional questions about any specific reference table should contact CHIA at **C**[**aseMix.data@state.ma.us**](mailto:CaseMix.data@state.ma.us)**.**

**TABLE 1. SOURCE OF VISIT**

Principal Data Element **SourceofVisit**

Other Data Elements SecondarySourceofVisit

Rules All other values were 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

6 Baystate Mary Lane Hospital

4 Baystate Medical Center

7 Berkshire Medical Center - Berkshire Campus

9 Berkshire Medical Center - Hillcrest Campus

53 Beth Israel Deaconess Hospital – Needham

10 Beth Israel Deaconess Medical Center - East Campus

16 Boston Medical Center - Harrison Avenue Campus

144 Boston Medical Center - East Newton Campus

19 East Boston Neighborhood Health Center

22 Brigham and Women's Hospital

25 Brockton Hospital

27 Cambridge Health Alliance - Cambridge Campus

143 Cambridge Health Alliance - Somerville Campus

142 Cambridge Health Alliance - Whidden Memorial Campus

39 Cape Cod Hospital

42 Caritas Carney Hospital

62 Caritas Good Samaritan Medical Center - Brockton Campus

75 Caritas Holy Family Hospital and Medical Center

41 Caritas Norwood Hospital

126 Caritas St. Elizabeth's Medical Center

46 Children's Hospital Boston

132 Clinton Hospital

50 Cooley Dickinson Hospital

51 Dana-Farber Cancer Institute

57 Emerson Hospital

8 Fairview Hospital

40 Falmouth Hospital

59 Faulkner Hospital

5 Franklin Medical Center

66 Hallmark Health System - Lawrence Memorial Hospital Campus

141 Hallmark Health System - Melrose-Wakefield Hospital Campus

68 Harrington Memorial Hospital

71 Health Alliance Hospitals, Inc.

73 Heywood Hospital

77 Holyoke Medical Center

78 Hubbard Regional Hospital

79 Jordan Hospital

81 Lahey Clinic -- Burlington Campus

83 Lawrence General Hospital

85 Lowell General Hospital

133 Marlborough Hospital

88 Martha's Vineyard Hospital

89 Massachusetts Eye and Ear Infirmary

91 Massachusetts General Hospital

118 Mercy Medical Center - Providence Behavioral Health Hospital Campus

119 Mercy Medical Center - Springfield Campus

70 Merrimack Valley Hospital

49 MetroWest Medical Center - Framingham Campus

*457 MetroWest Medical Center - Leonard Morse Campus*

97 Milford Regional Medical Center

98 Milton Hospital

99 Morton Hospital and Medical Center

100 Mount Auburn Hospital

101 Nantucket Cottage Hospital

52 Nashoba Valley Medical Center

103 New England Baptist Hospital

105 Newton-Wellesley Hospital

106 Noble Hospital

107 North Adams Regional Hospital

116 North Shore Medical Center, Inc. - Salem Campus

*3 North Shore Medical Center, Inc. - Union Campus*

109 Northeast Health System - Addison Gilbert Campus

110 Northeast Health System - Beverly Campus

112 Quincy Medical Center

114 Saint Anne's Hospital

127 Saint Vincent Hospital

115 Saints Memorial Medical Center

122 South Shore Hospital

123 Southcoast Hospitals Group - Charlton Memorial Campus

124 Southcoast Hospitals Group - St. Luke's Campus

145 Southcoast Hospitals Group - Tobey Hospital Campus

129 Sturdy Memorial Hospital

104 Tufts-New England Medical Center

131 UMass Memorial Medical Center - University Campus

*130 UMass Memorial Medical Center - Memorial Campus*

138 Winchester Hospital

139 Wing Memorial Hospital and Medical Centers

159 None

**TABLE 4. PAYER TYPE**

Principal Data Element PayerType

Other Data Elements ManagedCareCode

MCareMCaidPrivCode

Rules All other values invalid.

**CODE DESCRIPTION**

1 Self Pay

2 Worker's Compensation

3 Medicare

F Medicare Managed Care

4 Medicaid

B Medicaid Managed Care

5 Other Government Payment

6 Blue Cross

C Blue Cross Managed Care

7 Commercial Insurance

D Commercial Managed Care

8 HMO

9 Free Care

0 Other Non-Managed Care Plans

E PPO and Other Managed Care Plans Not Elsewhere Classified

H Health Safety Net

J Point-of-Service Plan

K Exclusive Provider Organization

T Auto Insurance

N None (Valid only for Secondary Payer)

Q Commonwealth Care/ConnectorCare Plans

Z Dental Plans

**TABLE 5. STATE**

Principal Data Element **PermanentPatientStateLDS**

Other Data Elements TemporaryPatientStateLDS

Rules All other values were invalid

Must be present when Patient Country was ‘US’ Must be valid U.S. postal code for state

**STATE/POSSESSION ABBREVIATION STATE/POSSESSION ABBREVIATION**

|  |  |  |  |
| --- | --- | --- | --- |
| Alabama | AL | Montana | MT |
| Alaska | AK | Nebraska | NE |
| American Samoa | AS | Nevada | NV |
| Arizona | AZ | New Hampshire | NH |
| Arkansas | AR | New Jersey | NJ |
| California | CA | New Mexico | NM |
| Colorado | CO | New York | NY |
| Connecticut | CT | North Carolina | NC |
| Delaware | DE | North Dakota | ND |

|  |  |  |  |
| --- | --- | --- | --- |
| District of Columbia | DC | N.Mariana Islands | MP |
| Federated States of Micronesia | FM | Ohio | OH |
| Florida | FL | Oklahoma | OK |
| Georgia | GA | Oregon | OR |
| Guam | GU | Palau | PW |
| Hawaii | HI | Pennsylvania | PA |
| Idaho | ID | Puerto Rico | PR |
| Illinois | IL | Rhode Island | RI |
| Indiana | IN | South Carolina | SC |
| Iowa | IA | South Dakota | SD |
| Kansas | KS | Tennessee | TN |
| Kentucky | KY | Texas | TX |
| Louisiana | LA | Utah | UT |
| Maine | ME | Vermont | VT |
| Marshall Islands | MH | Virgin Islands | VI |
| Maryland | MD | Virginia | VA |
| Massachusetts | MA | Washington | WA |
| Michigan | MI | West Virginia | WV |
| Minnesota | MN | Wisconsin | WI |
| Mississippi | MS | Wyoming | WY |

Missouri MO

Part D: Summary Statistics

For the FY2016 OOD data, CHIA produced a number of descriptive statistics for some continuous data elements in the Visit table. CHIA also produced tabulations for selected categorical data elements in the observation table

**TABLE 6. DESCRIPTIVE STATISTICS**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **DATA ELEMENT** | **N** |  | **N MISSING** | **MINIMUM** |  | **MEAN** | **MAXIMUM** |
| LengthOfStayHours |  | 216259 | 21 |  | 0 | 28.97565 | 999.99 |
| Charges |  | 216276 | 4 |  | 0 | 10440.35 | 738629 |
| Days Between Observation Stays |  | 172311 | 43969 |  | 0 | 11.2912 | 363 |

**TABLE 7. DEPARTURE STATUS**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CODE** | **FREQUENCY** | **PERCENT** | **CUMULATIVE FREQUENCY** | **CUMULATIVE PERCENT** |
| - | 16 | 0.01 | 16 | 0.01 |
| 1 | 184457 | 85.29 | 184473 | 85.29 |
| 2 | 1032 | 0.48 | 185505 | 85.77 |
| 3 | 26435 | 12.22 | 211940 | 97.99 |
| 4 | 4145 | 1.92 | 216085 | 99.91 |
| 5 | 195 | 0.09 | 216280 | 100 |

**TABLE 8. EMERGENCY DEPARTMENT INDICATOR**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | | | **CUMULATIVE** | **CUMULATIVE** |
| **CODE** | **FREQUENCY** | **PERCENT** | **FREQUENCY** | **PERCENT** |
| 0 | 66509 | 30.75 | 66509 | 30.75 |
| 1 | 22580 | 10.44 | 89089 | 41.19 |

2 127191 58.81 216280 100

**TABLE 9. HISPANIC INDICATOR**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CODE** | **FREQUENCY** | **PERCENT** | **CUMULATIVE FREQUENCY** | **CUMULATIVE PERCENT** |
| **-** | 276 | 0.13 | 276 | 0.13 |
| **8** | 1 | 0 | 277 | 0.13 |
| **N** | 196481 | 90.85 | 196758 | 90.97 |
| **U** | 1 | 0 | 196759 | 90.97 |
| **Y** | 19521 | 9.03 | 216280 | 100 |

**TABLE 10. HOMELESS INDICATOR**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | | | **CUMULATIVE** | **CUMULATIVE** |
| **CODE** | **FREQUENCY** | **PERCENT** | **FREQUENCY** | **PERCENT** |
| . | 3795 | 1.75 | 3795 | 1.75 |
| N | 210077 | 97.13 | 213872 | 98.89 |
| Y | 2408 | 1.11 | 216280 | 100.00 |

**TABLE 11. ICD INDICATOR**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | | | **CUMULATIVE** | **CUMULATIVE** |
| **CODE** | **FREQUENCY** | **PERCENT** | **FREQUENCY** | **PERCENT** |
| **0** | 216251 | 99.99 | 216251 | 99.99 |
| **9** | 29 | 0.01 | 216280 | 100 |

**TABLE 12. OTHER CARE GIVER CODE**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | | | **CUMULATIVE** | **CUMULATIVE** |
| **CODE** | **FREQUENCY** | **PERCENT** | **FREQUENCY** | **PERCENT** |
| **-** | 216144 | 99.94 | 216144 | 99.94 |
| **5** | 136 | 0.06 | 216280 | 100 |

**TABLE 13. PRINCIPAL CONDITION PRESENT**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CODE** | **FREQUENCY** | **PERCENT** | **CUMULATIVE FREQUENCY** | **CUMULATIVE PERCENT** |
| . | 360 | 0.17 | 360 | 0.17 |
| - | 335 | 0.15 | 695 | 0.32 |
| 1 | 414 | 0.19 | 1109 | 0.51 |
| A | 1212 | 0.56 | 2321 | 1.07 |
| E | 368 | 0.17 | 2689 | 1.24 |
| N | 71 | 0.03 | 2760 | 1.28 |
| U | 11497 | 5.32 | 14257 | 6.59 |
| W | 11 | 0.01 | 14268 | 6.60 |

Y 202012 93.40 216280 100.00

**TABLE 14. RACE 1**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CODE** | **FREQUENCY** | **PERCENT** | **CUMULATIVE FREQUENCY** | **CUMULATIVE PERCENT** |
| **-** | 13 | 0.01 | 13 | 0.01 |
| **R1** | 271 | 0.13 | 284 | 0.13 |
| **R2** | 5249 | 2.43 | 5533 | 2.56 |
| **R3** | 21637 | 10 | 27170 | 12.56 |
| **R4** | 126 | 0.06 | 27296 | 12.62 |
| **R5** | 169137 | 78.2 | 196433 | 90.82 |
| **R9** | 12145 | 5.62 | 208578 | 96.44 |
| **UN** | 1 | 0 | 208579 | 96.44 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CODE** | **FREQUENCY** | **PERCENT** | **CUMULATIVE FREQUENCY** | **CUMULATIVE PERCENT** |
| **UNKNOW** | 7700 | 3.56 | 216279 | 100 |
| **Unknow** | 1 | 0 | 216280 | 100 |
|  | **TABLE 15.** | **SEX** | **CUMULATIVE** | **CUMULATIVE** |
| **CODE** | **FREQUENCY** | **PERCENT** | **FREQUENCY** | **PERCENT** |
| **F** | 121416 | 56.14 | 121416 | 56.14 |
| **M** | 94864 | 43.86 | 216280 | 100 |

**TABLE 16. SOURCE OF VISIT**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CODE** | **FREQUENCY** | **PERCENT** | **CUMULATIVE FREQUENCY** | **CUMULATIVE PERCENT** |
| **-** | 11 | 0.01 | 11 | 0.01 |
| **0** | 234 | 0.11 | 245 | 0.11 |
| **1** | 53617 | 24.79 | 53862 | 24.9 |
| **2** | 11715 | 5.42 | 65577 | 30.32 |
| **3** | 2 | 0 | 65579 | 30.32 |
| **4** | 3127 | 1.45 | 68706 | 31.77 |
| **5** | 1179 | 0.55 | 69885 | 32.31 |
| **6** | 298 | 0.14 | 70183 | 32.45 |
| **7** | 709 | 0.33 | 70892 | 32.78 |
| **8** | 98 | 0.05 | 70990 | 32.82 |
| **9** | 9788 | 4.53 | 80778 | 37.35 |
| **E** | 8 | 0 | 80786 | 37.35 |
| **L** | 245 | 0.11 | 81031 | 37.47 |
| **M** | 91682 | 42.39 | 172713 | 79.86 |
| **R** | 42776 | 19.78 | 215489 | 99.63 |
| **T** | 4 | 0 | 215493 | 99.64 |
| **W** | 2 | 0 | 215495 | 99.64 |
| **Y** | 785 | 0.36 | 216280 | 100 |

**TABLE 17. TYPE OF VISIT OBS**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CODE** | **FREQUENCY** | **PERCENT** | **CUMULATIVE FREQUENCY** | **CUMULATIVE PERCENT** |
| **-** | 2 | 0 | 2 | 0 |
| **1** | 155905 | 72.08 | 155907 | 72.09 |
| **2** | 40896 | 18.91 | 196803 | 90.99 |
| **3** | 17765 | 8.21 | 214568 | 99.21 |
| **4** | 5 | 0 | 214573 | 99.21 |
| **5** | 1707 | 0.79 | 216280 | 100 |