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

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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.

Part A. Data Collection

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]. 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 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.

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-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.

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

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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,
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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.

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.

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)

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.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
Reference Table

Table 14

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-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 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

CODE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE 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

CODE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE 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

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

TABLE 12.   OTHER CARE GIVER CODE

CODE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE 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

CODE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE 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