Trauma Data Collection File Specification

For XML Data Filers

October 2019

Version 4.11

2017 and 2018 Admissions

This edition is effective for all

trauma patients presenting for

treatment on or after October 1, 2016 until September 30, 2018

Bureau of Health Care Safety and Quality

Massachusetts Department of Public Health

# Acknowledgements

The Bureau of Health Care Safety and Quality would like to thank the myriad of people – too numerous to list here – who have worked tirelessly to create the Massachusetts Trauma Registry. The current upgrades to the system and variable list are being done to continue the growth of the trauma registry and keep building on their knowledge and hard work.

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*Massachusetts Trauma Registry is maintained by the Bureau of Health care Safety and Quality, 99 Chauncy Street, 11th Floor, Boston, MA 02111. For more information about the Massachusetts Trauma Registry, contact the Massachusetts Department of Public Health, Bureau of Health Care Safety and Quality (Bureau), at*

*(617)-753-8000, or visit* [*http://www.mass.gov/eohhs/gov/departments/dph/programs/hcq/oems/trauma-data/public-health-oems-trauma-system.html*](http://www.mass.gov/eohhs/gov/departments/dph/programs/hcq/oems/trauma-data/public-health-oems-trauma-system.html)

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# Revision History

03/06/2008 Altered the Record Specification Elements to allow for Multiple Entry for Glasgow Coma Score Assessment Qualifier in the ED Drug Use Indicators and AirBag Deployment.

03/06/2008 Altered the lookup values for GCS Assessment Qualifiers (table 8) they appeared to be out dated.

04/09/2008 Changed severity of FilingOrgID and SiteOrgID from A Error to Drop File

04/22/2008 Revised “Data to Include…” section, Incident City (remove reference to incident zip) and Drug Use Indicator (make all occurrences conditional), added Incident State and Transport Mode.

06/03/2008 Revised the Incident City to be the text description of the city instead of the FIPS Code.

06/23/2008 Revised the Patient City to be the text description of the city instead of the FIPS Code. Revised Incident State to be the 2 digit postal code instead of the FIPS Code. Removed the requirement of Non Trauma Centers to supply Drug Use Indicators.

06/30/2008 Revised to synchronize required flags

07/02/2008 Revised to make remove reference to remove reference to patient’s industry and patient’s occupation

07/02/2008 Revised to change the field name Inpatient or Observation Date and Time to ED/Hospital Arrival Date and Time

07/11/2008 Revised date of document, submittal schedule, added an option “9-Unknown” for Transport Mode added “9 Not possible to assign” to AIS

7/15/2008 Revised to remove the language “For Trauma Centers” from the RecordType20 since at least 1 recordtype20 is required for both Trauma and non-Trauma centers

08/06/2008 Revised Drug Use Indicator and CoMorbidity lookup table values. Added maximum record counts to Co Morbid and Complication records.

11/23/2009 Correction to differences Between Trauma File Specification Version 1.0 and Version 2.0, Primary Ecode is required in current and all previous specification versions.

12/31/2015 Update the Specification Guide to reflect the changes in data elements, additional sections to clarify the submission process, more specific information on the data that is being collected, and supplementing any additional information.

2/10/2016 Page 6 - Field Values added for Not Known and Not Applicable to make consistent with NTDB. Removed reference to custom Not Known and Not Applicable reference in columns 73 and 74.

3/29/2016 .XSD Added, Table of Contents Updated, removed domain definitions from lower .XSD, added XML sample file

3/30/2016 Removed 2 grids from the section Record Specification Elements and altered the language so that it matches the original XML guide.

3/31/2016 Formatting and adding in Error Types to the table.

4/5/2016 Formatting and changing some sections wording.

4/7/2016 Change coding range and added to exclusions for ICD10 Primary External Cause Code. Added X in non-Trauma Center column for Transport Mode.

4/11/2016 Removing column 23 Primary External Cause Code. Altered definition of column 52 to make consistent with column 75 of fixed length guide. Renamed field 104 to Additional ICD 10 External Cause Code and removed reference to Record Type 70. Altered the grid and XSD to show multiple entry. Removed from the .XSD the element Primary External Cause Code.Added an X for must be filled by non-trauma centers for field ICD10 Primary External Cause Code. Added an X for must be filled by non-trauma centers for field ICD10 Place of Occurrence External Cause Code. Removed X from Additional ICD10 Primary External Cause Code for non-Trauma centers. Removed X from Transport Mode for non-Trauma centers. Added an X for must be filled by non-trauma centers for field Hospital Discharge Date. Removed X from Service Level for non-Trauma centers.Removed X from Other Transport Mode 1-5 for non-Trauma centers.

4/12/2016 Made lowercase x’s capital X’s in field ED Discharge Date and ED Discharge Time.

Added X to field Transport Mode for non-trauma centers. Added the Max Occurs of 50 in the XSD for Injury Diagnosis and to the grid.Added Unlimited to Protective Devices in the grid. Added the Max Occurs of 10 to the Hospital Complications element in the XSD. Added the Max Occurs of 200 to the Hospital Procedure Code element in the XSD and in the grid. Added language for a restriction of Additional ICD10 Primary External Cause Code records per Trauma record in the grid and a Max Occurs in the .XSD.

5/17/2016 Added back Primary Ecode ICD-9-CM, Location Ecode ICD-9-CM, and ICD-9-CM Diagnosis Code

7/7/2016 Made consistent XML element names in Grid, .XSD, and sample file so they match what the Trauma application requires.

7/12/2016 Added in the ICD-10 External Cause Coding criteria in Trauma Data Overview Section and clarified the Primary External Cause Code and Additional External Cause Code exclusion criteria in Record Type tables.

7/22/2016 Added notes about the XML Element Tags coding and Element Tags naming convention.

8/2/2016 Added in Data Collect Requirement Section more guidelines about the quarter submission due date. Added in Validation Edit Report more explanation about errors and identifiers needed to verify submission file errors.

8/22/2016 Added in unknown and/or not applicable coding to several coded fields and unknown and/or not applicable coding in fields with date and time. Change error types to either a warning or an error type B category specifically to the new data elements to loosen criteria while hospitals adjust to submitting them.

9/23/2016 Updated the Injury Diagnosis data field edit information to specify the inclusion criteria codes to be in the first data field while other coding can be incorporated in the rest of the data fields.

1/3/2017 Remove the choice of entering ‘99999’ for unknown or ‘88888’ for unknown and foreign zip code. This will leave only ‘999999999’ for unknown and ‘888888888’ for unknown and foreign zip code.

6/26/2017 Added to Airbag Deployment 1-3 code 8: ‘Not Applicable’ and code 9: ‘Unknown’. Added to Signs of Life code 99: ‘Unknown’. Added in ED/Hospital Blood Pressure code 999: ‘Unknown’ and code 888: ‘Not Recorded’, ED/Hospital Pulse Rate code 999: ‘Unknown’ and code 888: ‘Not Recorded’ , and ED/Hospital Respiration Rate code 999: ‘Unknown’ and code 888: ‘Not Recorded’. Added a sentence to the data collection requirement section of the specification guide to specify the use of the ‘unknown’, ‘not applicable’, and ‘not recorded’ coding.

7/17/2017 Added to Protective Devices code 88: ‘Not Recorded’ and code 99: ‘Unknown’. Added a sentence to the data collection requirement section of the specification guide to specify the use of the ‘unknown’ and ‘not recorded’ coding.

8/23/2017 Added to the Initial ED/Hospital Oxygen Saturation code 888: ‘Not Recorded’ and code 999: ‘Unknown’. Added to the Initial ED/Hospital Respiratory Assistance code 9: ‘Unknown’. Include Oxygen Saturation to the Common Null Value section.

8/25/2017 Added to Initial ED/Hospital Temperature code 99.9: ‘Unknown’ and code 88.8: ‘Not Recorded’. Added to Initial ED/Hospital Height code 999: ‘Unknown’. Added to Initial ED/Hospital Weight code 999: ‘Unknown’.

9/18/2017 Removed elements Drug Use Indicator 1, Drug Use Indicator 2 and Alcohol Use Indicator. Added new elements DrugScreens, AlcoholScreen and AlcoholScreenResults . Added DrugScreens, Alcohol Screen and Alcohol Screen Results to XSD and sample data.

10/20/2017 ED Hospital Arrival Time: Removed: If time is unknown/not applicable then enter 99:99. Added: If time is unknown then enter ’99:99 Added: Field cannot be Not Applicable

10/20/2017 DepartureTimeFromSceneorTransferring: Removed: If time is unknown/not applicable then enter 99:99. Added: If time is unknown then enter 99:99.

10/20/2017 Removed: If Date of Birth equals ED/Hospital Arrival Date, then the Age and Age Units variables must be completed. Added: If Date of Birth equals Injury Date, then the Age and Age Units variables must be completed. Change: Date of Birth is later than ED/Hospital Arrival Date to Date of Birth is later than Injury Date Change: Date of Birth + 120 years must be less than ED/Hospital Arrival Date to Date of Birth + 120 years must be less than Injury Date.

10/20/2017 Added: Removed: Must be present and must be the text value of the Patient’s Home City name when Patient’s ZIP/Postal code is not entered. Added: Must be present and must be the text value of the Patient’s Home City name. Removed: Only completed when ZIP/Postal code is "Not Known/Not Recorded" and country is US. Added: Completed when ZIP/Postal code is "Not Known/Not Recorded" and country is US.

10/21/2017 Removed: If patient zip code is unknown then enter ‘999999999’. If patient zip code is a foreign zip code and unknown then enter ‘888888888’. Added: If patient zip code is unknown then enter ‘999999999’. If patient zip code is a foreign zip code then enter ‘888888888’. Removed: If ZIP/Postal code is "Unknown," record UNK and complete variable: Alternate Home Residence. Added: If ZIP/Postal code is "Unknown," record appropriate code, and complete variable: Alternate Home Residence. Removed: If ZIP/Postal code is "Not Known/Not Recorded," record UNK and complete variables: Patient's Home Country, Patient's Home State (US only), Patient's Home County (US only) and Patient's Home City (US only). Added: If ZIP/Postal code is "Not Known/Not Recorded," record UNK code, and complete variables: Patient's Home Country, Patient's Home County (US only) and Patient's Home City (US only).

10/22/2017 Injury Incident Time Added: Field cannot be Not Applicable. Removed: If time is unknown/not applicable then enter ’99:99’ Added: If time is unknown then enter ’99:99’.

10/22/2017 Work Related Added: Field cannot be Not Applicable. Removed: Work-Related should be 1 (Yes) when Patient's Occupation is not: (1) blank, (2) Not Applicable, or (3) Not Known/Not Recorded. Added: If Work-Related is 1 (Yes) then Patient's Occupation should not be entered as (99) unknown. Removed: Work-Related should be 1 (Yes) then Patient's Occupational Industry is not: (1) blank, (2) Not Applicable, or (3) Not Known/Not Recorded. Added: If Work-Related is 1 (Yes) then Patient's Occupational Industry should not be entered as (99) unknown.

10/24/2017 Incident City: Removed: Must be present and must be the text value of the Incident City name when Incident Location ZIP/Postal code is not entered. Added: Must be present and must be the text value of the Incident City name. Removed: Only completed when Incident Location ZIP/Postal code is "Not Applicable" or "Not Known/Not Recorded", and country is US. Added: Completed when Incident Location ZIP/Postal code is "Not Known/Not Recorded", and country is US. Removed: If Incident City is unknown then enter ‘UNK’. Added: If Incident Country is not US, report the null value "Not Applicable". Added: If Incident City is unknown then enter ‘UNK’ and not applicable then enter 'NA'.

10/24/2017 Initial Glasgow Eye Component in ED: Removed: If a patient does not have a numeric GCS score recorded, but written documentation closely (or directly) relates to verbiage describing a specific level of functioning within the GCS scale, the appropriate numeric score may be listed. E.g. the chart indicates: "patient withdraws from a painful stimulus" a Motor GCS of 4 may be recorded, IF there is no other contradicting documentation. Added: If a patient does not have a numeric GCS score recorded, but written documentation closely (or directly) relates to verbiage describing a specific level of functioning within the GCS scale, the appropriate numeric score may be listed. E.g. the chart indicates: "patients pupils are PERRL," an Eye GCS of 4 may be recorded, IF there is no other contradicting documentation. Added: Field cannot be Not Applicable

10/24/2017 Initial Glasgow Motor Component in ED: Added: Field cannot be Not Applicable.

10/24/2017 Initial Glasgow Verbal Component in ED: Removed: If a patient does not have a numeric GCS score recorded, but written documentation closely (or directly) relates to verbiage describing a specific level of functioning within the GCS scale, the appropriate numeric score may be listed. E.g. the chart indicates: "patient withdraws from a painful stimulus" a Motor GCS of 4 may be recorded, IF there is no other contradicting documentation. Added: If a patient does not have a numeric GCS score recorded, but written documentation closely (or directly) relates to verbiage describing a specific level of functioning within the GCS scale, the appropriate numeric score may be listed. E.g. the chart indicates: "patient is oriented to person place and time," a Verbal GCS of 5 may be recorded, IF there is no other contradicting documentation. Added: Field cannot be Not Applicable

10/24/2017 Glasgow Coma Score Total in ED, Respiration Rate, Blood Pressure, Pulse Rate: Added: Field cannot be Not Applicable.

10/24/2017 Incident State: Removed: Only completed when Incident Location ZIP/Postal code is "Not Applicable" or "Not Known/Not Recorded", and country is US. Added: Only completed when Incident Location ZIP/Postal code is "Not Known/Not Recorded", and country is US. Added: If incident Country is not US, report the null value "Not Applicable" coded as "NA"

10/24/2017 Injury Diagnosis: The sentence removed in the 2017 admissions update has been removed from the state specification guide. Removed: If the other medical conditions are coded in the in the first diagnostic data field, the record will cause a submission error. Added: If the other medical conditions are coded in the first diagnostic data field, the record will cause a submission error.

10/24/2017 AIS, AIS Version: Added: Field cannot be Not Applicable.

10/24/2017 Child Specific Restraint: Field cannot be Not Applicable when Protective Device is 6 (Child Restraint).

10/24/2017 Airbag Deployment: Added: The null value code for "Not Applicable" is used if NO "Airbag" is reported under Protective Devices. Added: Field cannot be "Not Applicable" when Protective Device is "8. Airbag Present"

10/24/2017 Co-Morbid Condition: Added: Angina Pectoris (32) Added: Anticoagulant Therapy (31) Updated: Bleeding Disorder (4) Updated: Chronic Obstructive Pulmonary Disease (COPD) (23) Retired: Drug Use Disorder (28) Retired: History of Angina within 30 Days (16) Retired: History of Myocardial Infarction (MI) (17) Retired: History of Peripheral Vascular Disease (18) Replaced Hypertension Requiring Medication with Hypertension (19) Updated: Hypertension (19) Retired: Major Psychiatric Illness (27) Added: Mental/Personality Disorder (33) Added: Myocardial Infarction (MI) (34) Added: Peripheral Arterial Disease (PAD) (35) Added: Substance Abuse Disorder (36)

10/24/2017 Complication: New: Alcohol Withdrawal Syndrome Changed: Adult Respiratory Distress Syndrome to Acute Respiratory Distress Syndrome Retired: Decubitus Ulcer Updated: Deep Surgical Site Infection Retired: Drug or Alcohol Withdrawal Syndrome Updated: Myocardial Infarction Updated: Organ/Space Surgical Site Infection New: Pressure Ulcer Updated: Severe Sepsis Added: Substance Abuse Disorder Added: Superficial Incisional Surgical Site Infection Retired: Superficial Surgical Site Infection

10/26/2017 Patient Home Country: Removed: If Patient's Home Country is not US, then the null value "Not Applicable" is used for: Patient's Home State, Patient's Home County, and Patient's Home City. Added: If Patient's Home Country is not US, then the null value "Not Applicable" is used for: Patient's Home State and Patient's Home County.

10/26/2017 Patient Home County: Added: If patient home county unknown or not applicable then enter ‘NA’. Added: The null value "Not Applicable" coded as "NA" is used if Patient's Home Zip/Postal Code is reported.

10/26/2017 Alternate Home Residence: Added: The null value "Not Applicable" coded as "NA" is used if Patient's Home Zip/Postal Code is reported.

10/26/2017 Age: Added: If the age is not recorded or unknown along with the date of birth then code as '999'. Otherwise, calculate the age and age units using the date of birth and/or notes pertaining to the patient's age.

10/26/2017 Age Units: Added: If the age units is not recorded or unknown along with the date of birth then code as '9'. Otherwise, calculate the age and age units using the date of birth and/or notes pertaining to the patient's age.

10/27/2017 Ethnicity: Added: Based on the 2010 US Census Bureau Added: Field must be Not Applicable (non-US) Added: Field cannot be Not Applicable (US only)

10/27/2017 Patient Occupational Industry: Added: If the injury is work related then complete the Patient Occupation and Patient Occupational Industry data fields. Otherwise, complete when the information is available. If no information is available then code as unknown '99'.

10/27/2017 Incident Location Postal Code: Removed: If incident location postal code is unknown then enter ‘999999999’. If incident location postal code is a foreign zip code and unknown then enter ‘888888888’. Added: If incident location postal code is unknown then enter ‘999999999’. If incident location postal code is a foreign zip code then enter ‘888888888’. Removed: If "Not Applicable" or "Not Known/Not Recorded," complete variables: Incident Country, Incident State (US ONLY), and Incident County (US ONLY). Added: If "Not Known/Not Recorded", record appropriate code and complete variables: Incident Country, Incident State (US ONLY), Incident County (US ONLY) and Incident City (US ONLY). Added: Field cannot be Not Applicable.

10/27/2017 Incident Country: Added: If Incident Country is not US, then the null value "Not Applicable" coded as "NA" is used for: Incident State and Incident County.

10/27/2017 Incident County: Added: If Incident County is unknown or not applicable then enter ‘NA’. Added: The null value "Not Applicable" coded as "NA" is used if Incident Location Zip/Postal Code is reported Added: If Incident Country is not US, report the null value "Not Applicable" coded as "NA".

10/27/2017 Investigation of Physical Abuse: Removed: Field should not be Not Applicable when Report of Physical Abuse = 1 (Yes). Removed: Only complete when Report of Physical Abuse is 1. Yes. Added: Field should be completed with a responsive code (1 or 2) when Report of Physical Abuse = 1 (Yes). Added: Field should be completed with a responsive code (1, 2 or 9) when Report of Physical Abuse = 2 (No). Added: Not Applicable = "9". Removed: The null value "Not Applicable" should be used for patients where Report of Physical Abuse is 2. No.

10/27/2017 Caregiver At Discharge: Added 9 Not Applicable. If the Report of Physical Abuse has been coded a 1 (Yes) then Caregiver at Discharge can be coded according to the circumstances at the time of release (1, 2, or 9).

10/27/2017 EMS Dispatch Date: Added: The null value "Not Applicable" is used for patients who were not transported by EMS.

10/27/2017 EMS Dispatch Time: Removed: Must range from 00:00 to 23:59. 59 Added: Must range from 00:00 to 23:59. Added: The null value "Not Applicable" is used for patients who were not transported by EMS.

10/27/2017 EMS Unit Arrival Date at Scene or Transferring Facility, EMS Unit Arrival Time at Scene or Transferring Facility, EMS Unit Departure Date from Scene or Transferring Facility, EMS Unit Departure Time from Scene or Transferring Facility: Added The null value "Not Applicable" is used for patients who were not transported by EMS.

10/27/2017 Initial Field Systolic Blood Pressure: Removed: If Initial Field Systolic Blood Pressure is Not Known/Not Recorded then enter ‘UNK’. Added: If Initial Field Systolic Blood Pressure is Not Known then enter code ’999'. Added: If Initial Field Systolic Blood Pressure is Not Recorded then enter code ’888'. Removed: If Initial Field Systolic Blood Pressure is Not Applicable then enter ‘NA’.

10/28/2017 Initial Field Pulse Rate: Removed: If Initial Field Pulse Rate is Not Known/Not Recorded then enter ‘UNK’. Added: If Initial Field Pulse Rate is Not Known then enter ‘999’. Added: If Initial Field Pulse Rate is Not Recorded then enter ‘888’. Removed: If Initial Field Pulse Rate is Not Applicable then enter ‘NA’.

10/28/2017 Initial Field Respiratory Rate: Removed: If Initial Field Respiratory Rate is Not Known/Not Recorded then enter ‘UNK’. Added: If Initial Field Respiratory Rate is Not Known then enter ‘999’. Added: If Initial Field Respiratory Rate is Not Recorded then enter ‘888’. Removed: If Initial Field Respiratory Rate is Not Applicable then enter ‘NA’. Added: If Initial Field Respiratory Rate is Not Applicable then enter ‘777’.

10/28/2017 Initial Field Oxygen Saturation: Removed: If Initial Field Oxygen Saturation is Not Known/Not Recorded then enter ‘UNK’. Added: If Initial Field Oxygen Saturation is Not Known then enter ‘999’. Added: If Initial Field Oxygen Saturation is Not Recorded then enter ‘888’. Removed: If Initial Field Oxygen Saturation is Not Applicable then enter ‘NA’. Added: If Initial Field Oxygen Saturation is Not Applicable then enter ‘777’.

10/28/2017 Initial Field GCS Eye: Removed: If a patient does not have a numeric GCS score recorded, but written documentation closely (or directly) relates to verbiage describing a specific level of functioning within the GCS scale, the appropriate numeric score may be listed. E.g. the chart indicates: "patient withdraws from a painful stimulus" aan Motor GCS of 4 may be recorded, IF there is no other contradicting documentation. Added: If a patient does not have a numeric GCS score recorded, but written documentation closely (or directly) relates to verbiage describing a specific level of functioning within the GCS scale, the appropriate numeric score may be listed. E.g. the chart indicates: "patients pupils are PERRL," an Eye GCS of 4 may be recorded, IF there is no other contradicting documentation. Added: If Initial Field GCS Eye is unknown/not recorded then enter '9'.

10/29/2017 Initial Field GCS Verbal: Removed: If a patient does not have a numeric GCS score recorded, but written documentation closely (or directly) relates to verbiage describing a specific level of functioning within the GCS scale, the appropriate numeric score may be listed. E.g. the chart indicates: "patient withdraws from a painful stimulus" a Motor GCS of 4 may be recorded, IF there is no other contradicting documentation. Added: If a patient does not have a numeric GCS score recorded, but written documentation closely (or directly) relates to verbiage describing a specific level of functioning within the GCS scale, the appropriate numeric score may be listed. E.g. the chart indicates: "patient is oriented to person place and time," a Verbal GCS of 5 may be recorded, IF there is no other contradicting documentation. Added: If Initial Field GCS Verbal is unknown/not recorded then enter '9'.

10/29/2017 Initial Field GCS Motor: Added: If Initial Field GCS Motor is unknown/not recorded then enter '9'.

10/29/2017 Initial Field GCS Total: Removed: The GCS Total is outside the valid range of 3 – 15. Added: The GSC Total has a valid range of 3 - 15; anything outside of the reange is not valid. Removed: Initial Field GCS - Total does not equal the sum of Initial Field GCS - Eye, Initial Field GCS - Verbal, and Initial Field GCS – Motor. Added: Initial Field GCS - Total should equal the sume of the Initial Field GCS - Eye, Initial Field GCS - Verbal, and Initial Field GCS – Motor. the unknown/not recorded values are not valid entries for the Total. Added: If the entry is not known/not recorded then enter '99'. Added: If the entry in not applicable then enter '88'.

10/29/2017 Trauma Center Criteria, Vehicular Pedestrian Other Risk Injury: Added: 88. Not Applicable Added: 99. Unknown/Not Recorded

10/29/2017 Initial ED Hospital Temperature: Added: Field cannot be Not Applicable.

10/29/2017 Initial ED Hospital Respiratory Assistance: Added: Code=9 is used if "Initial ED/Hospital Respiratory Rate" is "Not Known/Not Recorded."

10/29/2017 Initial ED Hospital Oxygen Saturation: Added: Field cannot be Not Applicable.

10/29/2017 Initial ED Hospital Height, Initial ED Hospital Weight, Primary Method of Payment: Field cannot be Not Applicable.

10/29/2017 Total ICU Length of Stay, Total Ventilator Days: Added: If data field is “Not Applicable” then enter code 888.

10/29/2017 Race: Added: Select all that apply. Added: Field must be Not Applicable (non-US) Added: Field cannot be Not Applicable (US only) Removed: 9. Unknown Added: 9. Unknown/Not Applicable

10/29/2017 Other Transport Mode Added: 9 Unknown.

10/30/2017 ICD10 Hospital Procedure Code: Removed: The null value "Not Applicable" is used if not coding ICD-10 Removed: This list is based on procedures sent to NTDB with a high frequency. Not all hospitals capture all procedures listed below. Please transmit those procedures that your capture to NTDB. Added: See National Trauma Data Standard Data Dictionary 2017 (or 2018) Admissions for the list of procedures and description for entry.

10/30/2017 Transport Mode: Added: Field cannot be Not Applicable.

11/27/2017 Initial Field GCS Total: Fixed spelling mistakes.

11/27/2017 Trauma Center Criteria: Fixed spelling mistakes.

11/29/2017 Complications: Changed Adult Respiratory Distress Syndrome to Acute Respiratory Distress Syndrome.

11/29/2017 Patient Zip Code: Removed reference to Patient's Home State (US only).

11/29/2017 Removed columns Primary ECode ICD-9 coding and Location ECode ICD-9.

12/6/2017 Removed in Date of Birth ‘leave empty’ from if Date of Birth is not known / not recorded complete variables: Age / Age Units. Added in Initial Glasgow Motor Component in ED ‘Field cannot be not applicable’. In Incident State added in ‘Only completed when Incident Location ZIP/Postal code is "Not Known/Not Recorded", and country is US. ‘ and ‘If incident Country is not US, report the null value "Not Applicable" coded as "NA".’ Removed in Patient Home Country the reference to ‘Patient Home State’.

12/7/2017 Updated the State Trauma Registry Codes to reflect the changes in various codes, updated the resources section to include the 2017 and 2018 Data Dictionary information, and updated the Differences between Trauma file Specification Version 3.0 and Version 4.0 (this version) with the section 2018 Admissions Updates Reflected in Specification Guides that lists out the one change that was made for the 2018 admissions in the Specification Guides.

2/21/2018 Added in a 0. Not Recorded code to Initial Glasgow Eye Component in ED, Initial Glasgow Verbal Component in ED, Initial Glasgow Motor Component in ED, Glasgow Coma Score Total in the ED, Glasgow Coma Score Assessment Qualifier in the ED 1, Glasgow Coma Score Assessment Qualifier in the ED 2, and Glasgow Coma Score Assessment Qualifier in the ED 3. ‘Field can not be not applicable.’ sentence will be taken out of Incident County. Remove Incident City from the Incident Country description.

4/26/2018 Updated the sample .XSD file in Appendix.

5/3/2018 Injury Incident Date - when there is a partial date where only the month and year are able to be determine but the day is not able to be confirmed then enter ‘01’.

6/11/2018 Changing field to reflect changes determined in 10/29/2017 Total ICU Length of Stay, Total Ventilator Days: Added: If data field is “Not Applicable” then enter code 888.

10/3/2018 Change from B type errors to warnings for Hospital Procedure Start Date and Hospital Procedure Start Time.

1/8/2019 Add in a note under Table 1. DPH and CHIA organizations IDs for Hospitals that explains the combination of two MetroWest facilities records (#49 MetroWest Medical Center – Framingham Union Campus and #457 MetroWest Medical Center – Leonard Morse / Natick) being submitted under one number (#49).

2/25/2019 Made a change in Table 1. Trauma Data Code Tables. Based on information from Health Safety Network, UMass Memorial Health Alliance Hospital – Leominister Campus Org ID 8509 needs to be changed to the prior Org ID 71 to be consistent with HSN Master Org ID list.

10/9/2019 Change from B type errors to warnings for ICD 10 Hospital Procedure Code.

# Data Collection Requirement

The Trauma Registry is a state database to which all hospitals are required to submit their trauma records, in accordance with the Department’s Hospital Licensure regulations (105 CMR 130.851 and 105 CMR 130.852) and Circular Letter (DHCQ 16-04-660, which is currently in the process of being updated).  Submission of the state trauma data is based on the criteria that are outlined in the submission guides.  Any hospital that does not receive any trauma patients needs to send an e-mail to verify that they have no trauma patients entering into their institution.

The trauma registry data initial submission is required to be submitted on the designated submission quarter due date. If the records for the designated quarter are completed and closed by the hospital prior to the submission date, the hospital may submit the data early to the trauma registry for that designated quarter.

Trauma Registry personnel may, at their discretion, and for good cause, grant an extension in time to a hospital submitting trauma data.

If the Validation Detail Report indicates to a hospital it is required to resubmit data after the initial submission quarter due date because the submission was rejected **or as part of a data verification process**, the hospital must submit its data no later than 30 days following the date of the notice to resubmit. If the data is resubmitted after 60 days, the hospital will need to notify the trauma registry in order to unlock the flag field, signifying which submission file was most recently received.

The use of ‘unknown’, ‘not applicable’, and ‘not recorded’ codes should be used as a last resort coding option after all other data resources have been exhausted for the specific variable being recorded.

# Submittal Schedule

Trauma Data File **must be submitted quarterly** to Health Safety Network (HSN) and must be submitted within 75 days of the close of the quarter. Include records whose final discharge date must be within the quarter of submission.

|  |  |  |
| --- | --- | --- |
| **Quarter** | **Quarter Begin & End Dates** | **Due Date for Data File: 75 days following the end of the reporting period** |
| 1 | 10/1 - 12/31 | 3/16 |
| 2 | 1/1 - 3/31 | 6/14 |
| 3 | 4/1 - 6/30 | 9/13 |
| 4 | 7/1 - 9/30 | 12/14 |

# Protection of Confidentiality of Data

HSN shall institute appropriate administrative procedures and mechanisms to ensure that it is in compliance with the provisions of M.G.L. c. 66A, the Fair Information Practices Act, to the extent that the data collected there under are "personal data" within the meaning of that statute. In addition, HSN shall ensure that any contract entered into with other parties for the purposes of processing and analysis of this data shall contain assurances such other parties shall also comply with the provisions of M.G.L. c. 66A.

# Trauma Data Submission Overview

## ICD-9 to ICD-10 Transition

The U.S. Department of Health and Human Services (HHS) has mandated that all entities covered by the Health Insurance Portability and Accountability Act (HIPAA) transition from the International Classification of Diseases version 9 (ICD-9-CM) to version 10 (ICD-10-CM/PCS) on October 1, 2014 which was pushed back to October 1, 2015. Massachusetts Trauma Registry will only be collecting ICD-10-CM/PCS starting with patients admitted on or after October 1, 2015.

## Massachusetts Trauma Registry Inclusion / Exclusion Criteria ICD-9

A trauma patient is defined as a patient sustaining a traumatic injury and meeting the following criteria as a principle or primary diagnosis for the state trauma registry:

**ICD-9-CM until 9/30/2015**

800 - 959.9 or 994.1 or 994.7

**AND**

**Patient Admission Definition:**

* Hospital inpatient admission; **OR**
* Observation stay admission; **OR**
* Transfer patient via EMS transport (including air ambulance) from one hospital to another hospital (includes inpatient or observation or emergency department); **OR**
* Death (independent of hospital admission source or hospital transfer status)

**Note**:  When coding out all the variable fields use the best code to describe the direct injury or the information surrounding how the injury occurred.  Avoid using non-specified codes unless there is no other code that is better suited for the field after reviewing all the necessary documentation around the injury.

## Massachusetts Trauma Registry Inclusion / Exclusion Criteria ICD-10

A trauma patient is defined as a patient sustaining a traumatic injury and meeting the following criteria as a principle or primary diagnosis for the state trauma registry:

**ICD-10-CM starting 10/1/2015**

S00 – S99 with 7th character modifiers of A, B, or C only (Injuries to specific body parts – initial encounter)

T07 (unspecified multiple injuries)

T14 (injury of unspecified body region)

T20 – T28 with 7th character modifier of A only (burns by specific body parts – initial encounter)

T30 – T32 (burn by TBSA percentages)

T79.A1 – T79.A19 (Upper extremity) T79.A2 - T79.A29 (Lower extremity) with 7th character modifier of A only (Traumatic Compartment Syndrome (extremity only) – initial encounter)

T75.1 with 7th character modifiers of A only (Unspecified effects of drowning and nonfatal submersion – initial encounter)

T71 with 7th character modifiers of A only (Asphyxiation / Strangulation – initial encounter)

**Excluding the following isolated injuries:**

S00 (Superficial injuries of the head)

S10 (Superficial injuries of the neck)

S20 (Superficial injuries of the thorax)

S30 (Superficial injuries of the abdomen, pelvis, lower back, and external genitals)

S40 (Superficial injuries of the shoulder and upper arm)

S50 (Superficial injuries of the elbow and forearm)

S60 (Superficial injuries of the wrist, hand, and fingers)

S70 (Superficial injuries of the hip and thigh)

S80 (Superficial injuries of the knee and lower leg)

S90 (Superficial injuries of the ankle, foot, and toes)

Late effect codes, which are represented using the same range of injury diagnosis codes but with the 7th digit modifier code of D through S, are also excluded.

**AND**

**Patient Admission Definition:**

* Hospital inpatient admission; **OR**
* Observation stay admission; **OR**
* Transfer patient via EMS transport (including air ambulance) from one hospital to another hospital (includes inpatient or observation or emergency department); **OR**
* Death (independent of hospital admission source or hospital transfer status)

**Note**:  When coding out all the variable fields use the best code to describe the direct injury or the information surrounding how the injury occurred.  Avoid using non-specified codes unless there is no other code that is better suited for the field after reviewing all the necessary documentation around the injury.

## FOR ICD-10-CM External Cause Code:

**MUST** be present if principal diagnosis is an injury: ICD-10-CM **(S00-S99)** or the following T-Codes:

(T07) unspecified multiple injuries

(T14) injury of unspecified body region

(T20-T32) burns and corrosions

(T79.A1 – T79.A19) upper extremity

(T79.A2 - T79.A29) lower extremity

(T75.1) drowning or nonfatal submersion

(T71) asphyxiation / strangulation

- If present, **MUST** be a valid ICD-10-CM External Cause Code of **V00-Y38, Y62-Y84** (3 - 7 digits with decimal point excluded).

- **ASSOCIATED** diagnostic fields may be used for additional external cause codes (V, W, X, Y) including supplemental codes: Y90-Y99 (place of injury, activity, status) and Z00-Z99 (factors influencing health status and seeking services).

# Common Null Value

## Definition

*Common Null Value* is a term used with Trauma Registry Data Elements to describe a blank field for specifically-defined data fields when an answer cannot be provided.

## Field Values

Blank field – Not Applicable/Not Known/Not Recorded/Not Documented

**State Trauma Registry Codes**

**Date and Time Coding**

99:99 - Not Applicable/Not Known/Not Recorded/Not Documented

99999999 - Not Applicable/Not Known/Not Recorded/Not Documented

XXXXXX01 – If partial date is the only date available for the Injury Incident Date then make sure month and year are filled in with the known information. The date can be filled in as the first of the month or ‘01’ in spaces that represent the date.

**Coded Unknowns**

**Work Related, Transport Mode, Ethnicity, Age Units, Investigation of Physical Abuse, Caregiver at Discharge, Initial Field GCS Eye, Initial Field GCS Verbal, Initial Field GCS Motor, Initial ED Hospital Respiratory Assistance, Initial ED Hospital Supplemental Oxygen, Race1, Race2, and Other Transport Mode**

9 = unknown/not recorded/not applicable (Definition depends on the data field)

**Patient Occupational Industry, Patient Occupation, and Signs of Life**

99=unknown

**Abbreviated Injury Scale (Predote Code and Severity Code)**

999999.9=unknown

**Patient Zip Code and Incident Location Postal Code**

999999999=unknown and 888888888=foreign zip code

**ED/Hospital Temperature and Protective Devices**

99.9 = Unknown and 88.8 = Not Recorded

**ED/Hospital Height and ED/Hospital Weight**

999 = Unknown

**ED Discharge Disposition, Hospital Discharge Disposition, and Primary Method of Payment**

99 = Not Applicable and 88 = Unknown (Definition depends on the data field)

**Airbag Deployment 1 -3**

8 = Not Applicable and 9 = Unknown

**ED/Hospital Blood Pressure, ED/Hospital Pulse Rate, ED/Hospital Respiration Rate, ED/Hospital Oxygen Saturation, Initial Field Systolic Blood Pressure, Initial Field Pulse Rate, Initial Field Respiratory Rate, and Initial Field Oxygen Saturation**

888 = Not Recorded, 999 = Unknown, and 777=Not Applicable (Definition depends on the data field)

**Total Ventilator Days and ICU Length of Stay**

888=Not Applicable

**Protective Devices**

88 = Not Recorded and 99 = Unknown

**Initial Field GCS Total, Trauma Center Criteria, and Vehicular Pedestrian Other Risk Injury**

88=Not Applicable and 99=Unknown/Not Recorded

## Additional Information

* *Not Applicable:* This null value code applies if, at any time of patient care documentation, the information requested was “Not Applicable” to the patient, the hospitalization or the patient care event. For example, variables documenting EMS care would be *NA* if a patient self-transports to the hospital.
* *Not Known/Not Recorded/Not Documented:* This null value applies if, at the time of patient care documentation, information was “Not Known” (to the patient, family, healthcare provider) or no value for the element was recorded for the patient. This documents that there was an attempt to obtain information, but it was unknown by all parties or the information was missing at the time of documentation. For example, injury date and time may be documented in the hospital patient care report as “Unknown”. Another example, Not Known/Not Recorded/Not Documented should also be coded when documentation was expected, but none was provided (i.e., no EMS run sheet in the hospital record for patient transported by EMS).

# Validation Edit Report

Once the file is submitted through the INET application software, a validation edit report is generated and sent back through INET to the submitter. It is the responsibility of the submitter to get the report from INET and make sure that the file passed all edit checks. The validation edit report specifies the edit errors that triggered the file failure. The submitting team has 30 days to resubmit the file. The file needs to be reprocessed until there is a passing file sent in for that year and quarter.

When making an inquiry about an error, the Submission Control ID is the identifier for the submission file and the Edit ID is the identifier of the error. These two identifiers are needed to determine what issues are present on the submission file. When emailing the State Trauma Registry about a submission file that failed or dropped include the Submission Control ID and Edit ID. A warning error is a trigger that will show an error has occurred but it will not count towards failing the submission. See the Trauma Data Quality Standards section for more information about how a submission fails or dropped.

# Flag Fields for File Submission

There are two flag fields used to identify the file that should be processed. One flag identifies the most recent file that was sent to be processed (Active) and the other flag identifies the file status (Status). Once a file has been identified as passed and the most recent file, another file sent into the same year and quarter can knock the file out of the most recent file category. The flag field (Active) will be locked into place after 60 days of the last file being entered into the system.

If the submitter is not able to resubmit the file until after 60 days of the original submission, you will need to contact the Bureau epidemiologist to request that the active field is unlocked then resubmit the file.

# Resources

Resources for Optimal Care of the Injured Patient – This document corresponds with the evolution of the philosophy of care set by the American College of Surgeons Committee on Trauma (ACS – COT). This is the oldest standing committee of ACS. This document emphasizes the principle that the needs of all injured patient s are addressed wherever they are injured and wherever they receive care. Available at: <https://www.facs.org/quality-programs/trauma/vrc/resources/>

American College of Surgeons National Trauma Data Standard: Data Dictionary 2017 and 2018 (NTDB) – These documents are designed to establish a national standard for the exchange of trauma registry data, and to serve as the operational definitions for the National Trauma Data Bank. These documents will serve as reference guides when working with the data variables that are being required for the state trauma registry. Available at: <http://www.ntdsdictionary.org/> Archives of the data dictionary are available at: <http://www.ntdsdictionary.org/softwareVendors/theNTDSArchive.html>

ICD - 10 – CM - The Centers for Medicare and Medicaid Services (CMS) and the National Center for Health Statistics (NCHS), two departments within the U.S. Federal Government’s Department of Health and Human Services (DHHS) provide the following guidelines for coding and reporting using the International Classification of Diseases, 10th Revision, Clinical Modification (ICD-10-CM). These guidelines should be used as a companion document to the official version of the ICD-10-CM as published on the NCHS website. The ICD-10-CM is a morbidity classification published by the United States for classifying diagnoses and reason for visits in all health care settings. The ICD-10-CM is based on the ICD-10, the statistical classification of disease published by the World Health Organization (WHO). The ICD-10-CM coding contains up to 7 characters and are alphanumeric. Available at: <https://www.cms.gov/Medicare/Coding/ICD10/2016-ICD-10-CM-and-GEMs.html>

ICD – 10 – PCS – The International Classification of Diseases, 10th Revision, Procedure Coding System (ICD-10-PCS) is used to code out the procedures that were done for the trauma cases. The ICD-10-PCS coding contains 7 characters that represent the section, body system, root operation, body part, approach, device, and qualifier which are coded using the information in the PCS code tables. Available at:<https://www.cms.gov/Medicare/Coding/ICD10/2016-ICD-10-CM-and-GEMs.html>

# 

### Data File Format

The data for Trauma Data must be submitted in a XML file consistent with the .XSD sample and Massachusetts Trauma XML sample in the back of this guide.

The file layout needs to be set up by the information technology (IT) services in your institution using the samples as guides in the back of this guide. This will help with the transfer of the data from the hospital system to the state trauma registry system.

### Data Transmission Media Specifications

## Link to Documentation

This is the link to the circular letter, submission guides based on submission type, and the data elements that are required based on trauma designation:

<http://www.mass.gov/eohhs/gov/departments/dph/programs/hcq/oems/trauma-data/public-health-oems-trauma-system.html>

## Help Desk Information

If you have any questions or need to set up the SENDS/INET submission system to send in trauma data files, you can contact the HSN help desk.  The HSN help desk email is [hsnhelpdesk@state.ma.us](mailto:hsnhelpdesk@state.ma.us) and the help desk phone number is 1-800-609-7232 for any SENDS/INET questions, updates, and installation.

# Applicable Regulations

Terms used in this bulletin are defined in the Hospital Licensure regulations’ general definition section (105 CMR 130.020) or are defined in this bulletin. If a term is not otherwise defined, use any applicable definitions from the other sections of the regulation. Relevant sections of the regulation include:

Designated Trauma Center: A hospital that has been verified by the American College of Surgeons as a level 1, 2 or 3 adult trauma center, or a level 1 or 2 pediatric trauma center, as defined in the document ‘Resources for Optimal Care of the Injured Patient: 1999’ by the Trauma Subcommittee of the American College of Surgeons (ACS) and its successors; and meets applicable Department standards for designation, or a hospital that has applied for and is in the process of verification as specified in 105 CMR 130.851 and meets applicable. (105 CMR 130.020, definition of “service,” (Z))

Data Submission Requirement for Designated Trauma Centers: The hospital provides to the Division of Health Care Finance and Policy (now the Center for Health Information and Analysis – hereinafter, CHIA) the designated trauma center data set to be specified in administrative requirements jointly developed by the Department and the Division of Health Care Finance and Policy (CHIA), and promulgated by the Department. (105 CMR 130.851(D))

Data Submission Requirement for Hospitals that are not Designated Trauma Centers: (A) The hospital provides to the Division of Health Care Finance and Policy (CHIA) the trauma service hospital data set to be specified in administrative requirements jointly developed by the Department and the Division of Health Care Finance and Policy (CHIA). (105 CMR 130.852(A))

# Standard Definitions

Terms used in this document and resources are defined in this section.

Division of Health Care Finance and Policy – Former name of the Center for Health Information and Analysis (CHIA), which monitors a wide variety of health care indicators in Massachusetts to promote improved quality, affordability, access, and outcomes in the Massachusetts health care system. CHIA reports provide data and analysis on providers, insurers, and payers to help legislators, policymakers, insurers, and providers understand the health care indicators in Massachusetts.

Health Safety Net - pays acute care hospitals and community health centers for essential health care services provided to uninsured and underinsured Massachusetts residents. The SENDS/INET applications are provided by HSN to be used by trauma data submitters.

# Data Field Service Level Code Definitions

Outpatient Emergency Department Stay: All emergency department visits, including Satellite Emergency Facility visits, by patients whose visits result in neither an outpatient observation stay nor an inpatient admission at the reporting facility.

Outpatient Observation Stay: Patient who receive observation services and who are not admitted. Example: A post-surgical day care patient who, after a normal recovery period, continues to require hospital observation and then is released from the hospital.

Inpatient Stay: Patient who has been admitted as an inpatient visit at the reporting facility.

Death on Arrival: A patient becomes decreased in route to the reporting facility.

### Trauma Data Quality Standards

The data will be edited for compliance with the edit specifications set forth in this document. The standards to be employed for rejecting data submissions from hospitals will be based upon the presence of Category A errors as listed for each data element under the following conditions:

All errors will be recorded for each patient Record and for the Submission as a whole. An Edit Report will be provided to the data submitter, displaying detail for all errors found in the Submission.

A Trauma **Record** will be rejected if there is:

* Presence of one or more errors for Category A (A) elements.
* Presence of two or more errors for Category B (B) elements.

A Trauma data **Submission** will be rejected (Dropped) if:

* The file format is not correct
* FilingOrgID on the Record Type 10 does not match the OrgID of the Organization who files the submission on INET
* 1% or more of Trauma records are rejected or
* 50 consecutive records are rejected.

Failed filings must be resubmitted within 30 days.

Warnings – Warnings (W) may be reported on the validation detail reports or edit error reports to Hospitals. These data fields are noted but will not cause a file or record to fail. An example, a date field is not filled out since there is no data available for that case/patient.

***Acceptance of data under the edit check procedures identified in this document shall not be deemed acceptance of the factual accuracy of the data contained therein.***

# Differences Between Trauma File Specification Version 3.0 and Version 4.0 (this version)

### Version 4.0 XML File

Version 4.0 will continue to allow for the XML based file and the specified fixed length file format to be accepted into the system. The files will have updated information on how the data is being sent over to the system.

## Edits based on Submitting Entity Type

The Trauma Registry will consist of two tier edits with a warning option on the newer data fields performed on the submitted data. The edits performed will be different based on data submitted by trauma centers and that submitted by non-trauma center acute care hospitals that treat trauma centers. The edit differences will be noted in the file specification section below. The Trauma Registry data and its edits will be generally compatible with the ACS’s National Trauma Data Bank (NTDB). The Not Recorded / Not Applicable / Unknown codes will fit into a coding schema that allows the data to be counted in a category the majority of the time. The data fields that accepts text has specific abbreviations to use in the data field that will give the analyst a better chance of recognizing the exceptions in the text fields.

## 2018 Admissions updates reflected in Specification Guides

This version of the specification guide will represent the 2017 and 2018 admissions for the time period of October 1, 2016 thru September 30, 2018. The majority of the changes were done for the 2017 admissions. There is only one change that is represented in the 2018 admissions. It is not significant enough to warrant a whole new admissions specification guide.

The one change in the 2018 admissions that is different from the 2017 admissions is:

**Data Field**: Complications **Removed**: For all Hospital Complications that follow the CDC definition [e.g., VAP, CAUTI, CLABSI, Osteomyelitis] always use the most recent definition provided by the CDC.

This one change only affects how the choices are defined in the data field and does not reflect a change in the coding of the data field choices from 2017 to 2018.

## Fields no Longer Required

The following fields were required in Trauma File Specification Version 3.0 but are no longer required. In order to preserve the length of the Trauma File records in Version 3.0, these fields have been converted to FILLER for Version 4.0.

Fields No Longer Required

Alcohol Use Indicator

Drug Use Indicator

**The Difference between the 2017 admission data fields and the 2018 admission data fields in this Trauma File Specification Version 4.0**

All the changes that are contained in this specification guide started with the changes that NTDB made to their 2017 admissions data dictionary. The unknown/not applicable/not recorded codes were added to the data fields to allow the type of data to code into a category. The text data fields contain one or two coding usages for the unknown/not applicable/not recorded codes allowing for consistency when the data is being analyzed.

# Trauma Data Record Specification

### Record Specification Elements

The Trauma Data File is modeled after the National Trauma Data Bank’s National Trauma Data Standard 2016 Data Dictionary. There are several fields that are specific to Massachusetts that will not be a part of the National Trauma Data Standards. All the data variables from the National Trauma Data Standard have not been modified. Every effort has been made to keep the definition of elements found in the National Trauma Data Standard consistent in this specification.

**Note:** XML submitters need to make sure the element tags that are used in the filing is the same as the field names in the table (upper grid), .XSD, or sample data. For example, "FieldNAME" would need to be "FieldNAME" in the file not FieldName.

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **F#** | **Field Name** | **Must be Filed By Trauma Centers** | **Must be Filed by Non-Trauma Centers** | **National Element** | **XSD Field Name** | **XSD Data Type** | **Multiple Entry** | **Required** | **Edit Specification** | **Field Definition** | **Error Type** |
| 1 | FilingOrgId | X | X | Yes | FacilityId | xs:string | No | R | Must be present.  Characters must be numeric.  Must be valid entry as specified in Data Code Tables. (Table I) | The Organization ID assigned by the Center for Center for Health Information and Analysis (CHIA) to the provider filing the submission. | Drop File |
| 2 | SiteOrgID | X | X | No | FacilitySiteId | xs:string | No | R | Must be present.  Characters must be numeric. Must be valid entry as specified in Data Code Tables. (Table I)  Must be equal to the FilingOrgID if the Site and Filing Organization are the same Organization. | The Organization ID assigned by the Center for Health Information and Analysis (CHIA) to the provider of care for the trauma. | Drop File |
| 3 | Inter-Facility Transfer | X | X | Yes | InterFacilityTransfer | xs:integer | No | R | Must be Present.  Must be a 1 or 2. | Was the patient transferred to your facility from another acute care facility?  1 = Yes  2 = No  A patient transferred from a private doctor’s office, stand-alone ambulatory surgery center, or delivered to your hospital by a non-EMS transport is not considered an inter-facility transfer. | A |
| 4 | SiteOrgID of Transferring Hospital | X | X | No | FacilitySiteIdOfTransferringHospital | xs:integer | No | C | Must be present if Inter-Facility Transfer is ‘1’  If present and the Transferring Hospital is in-state, must be valid entry as specified in Data Code Tables. (Table 1)  If the Transferring Hospital is out of state enter ‘9999999’. | The Organization ID assigned by the Center for Health Information and Analysis (CHIA) to the site from which the patient was transferred. | A |
| 5 | Departure Time from Scene of Transferring | X | X | No | DepartureTimeSceneOrTransferring | Xs:time | No | C | May be present if Inter-Facility Transfer=1.  Collected as HH:MM military time.  Must range from 00:00 to 23:59  If time is unknown then enter 99:99. | Time the patient left the originating hospital if a transfer patient. | W |
| 6 | ED Discharge Date | X | X |  | EDDischargeDate | Xs:date | No | R | Must be a valid date format (CCYYMMDD).  If date is unknown/not applicable then enter ‘99999999’ | Filler changed back to ED discharge date | B |
| 7 | Ed Discharge Time | X | X |  | EDDischargeTime | Xs:time | No | R | Collected asHH:MM military time.  Must range from 00:00 to 23:59  If time is unknown/not applicable then enter ’99:99’ | Filler changed back to ED discharge time | B |
| 8 | ED/Hospital Arrival Date | X | X | Yes | HospitalArrivalDate | Xs:date | no | R | Must be a valid date format (CCYYMMDD).  ED/HospitalArrival Date cannot be earlier than EMSDispatch Date.  ED/HospitalArrival Date cannot be earlier than EMS Unit Arrival on SceneDate.  ED/HospitalArrival Date cannot be earlier than EMSUnit Scene Departure Date.  ED/HospitalArrival Date cannot be later than ED DischargeDate.  ED/HospitalArrival Date cannot belater than HospitalDischarge Date.  ED/HospitalArrival Date cannot be earlier than Date of Birth.  ED/HospitalArrival Datecannot beprior to 1993.  ED/HospitalArrival Dateminus Injury Incident Dateshould be less than 30 days  ED/HospitalArrival Dateminus EMS Dispatch Date cannot be greater than 7 days | Ifthe patient was brought to the ED, enter date patientarrived at ED. If patient wasdirectly admitted to the hospital, enter date patientwas admitted to the hospital. | A |
| 9 | ED/Hospital Arrival Time | X | X | Yes | HospitalArrivalTime | Xs:time | no | R | Collected as HH:MM military time.  Must range from 00:00 to 23:59.  If time is unknown then enter 99:99.  Field cannot be Not Applicable.  ED/HospitalArrival Time cannot be earlier than EMS Dispatch Time.  ED/HospitalArrival Time cannot be earlier than EMS Unit Arrival on Scene Time.  ED/HospitalArrival Time cannot be earlier than EMS Unit Scene Departure Time.  ED/HospitalArrival Time cannot be later than ED Discharge Time.  ED/HospitalArrival Time cannot be later than Hospital Discharge Time. | The time the patient arrived to the ED/Hospital. If the patient was brought to the ED, enter time patient arrived at ED. If patient was directly admitted to the hospital, enter time patient was admitted to the hospital. | A |
| 10 | Medical Record Number | X | X | No | MedicalRecordNumber | Xs:string | No | R | Must be present. | Patient’s hospital Medical Record Number | A |
| 11 | Social Security Number | X | X | No | PatientId | Xs:string | No | R | Must be present if known.  Must be numeric.  Must be a valid social security number or '000000001' if Unknown | Patient's Social Security Number | A |
| 12 | Date of Birth | X | X | Yes | DateOfBirth | Xs:date | no | R | Must be present.  Must be a valid date format (CCYYMMDD).  If date is unknown then enter ‘99999999’.  If Date of Birth is “Not Known/Not Recorded” and complete variables: Age and AgeUnits.  If Date of Birth equals Injury Date, then the Age and Age Units variables must be completed.  Field should not be Not Known/Not Recorded.  Date of Birth cannot be later than EMS Dispatch Date.  Date of Birth cannot be later than EMS Unit Arrival on Scene Date.  Date of Birth cannot be later than EMS Unit Scene Departure Date.  Date of Birth cannot be later than Injury Date.  Date of Birth cannot be later than ED Discharge Date.  Date of Birth cannot be later than Hospital Discharge Date.  Date of Birth + 120 years must be less than Injury Date.  Field cannot be Not Applicable. | Patient's Date of Birth | A |
| 13 | Gender | X | X | Yes | Sex | Xs:integer | no | R | Must be present.  Must be 1-Male, 2-Female. | Patient Gender.  Patients who have undergone a surgical and/or hormonal sex reassignment should be coded using the current assignment. | A |
| 14 | Patient Zip Code | X | X | Yes | HomeZip | Xs:string | No | C | Must be present unless Patient Country is not the United States.  Must be numeric.  Must be a valid postal code.  If patient zip code is unknown then enter ‘999999999’. If patient zip code is a foreign zip code then enter ‘888888888’.  If ZIP/Postal code is "Unknown," record appropriate code, and complete variable: Alternate Home Residence.  If ZIP/Postal code is "Not Known/Not Recorded," record UNK code, and complete variables: Patient's Home Country, Patient's Home County (US only), and Patient's Home City (US only). | The patient’s home ZIP code of primary residence. 4-Digit zip code extension can be applied.  May require adherence to HIPAA regulations. | A |
| 15 | Injury Incident Date | X | X | Yes | IncidentDate | Xs:date | No | R | Must be present.  Must be a valid date format (CCYYMMDD).  InjuryIncidentDate cannot be earlier than Date of Birth.  InjuryIncidentDate cannot be later than EMS Dispatch Date.  InjuryIncidentDate cannot be later than EMS Unit Arrival on SceneDate.  InjuryIncidentDate cannot be later than EMS Unit Scene Departure Date.  InjuryIncidentDate cannot be later than ED/Hospital Arrival Date.  InjuryIncidentDate cannot be later than ED Discharge Date.  InjuryIncidentDate cannot be later than HospitalDischargeDate. | The date the injury occurred.  Estimates of date of injury should be based upon report by patient, witness, family, or health care provider. Other proxy measures (e.g., 911 call time) should not be used.  For partial date entries see Common Null Value | A |
| 16 | Injury Incident Time | X | X | Yes | IncidentTime | Xs:time | No | R | Must be present.  Collected as HH:MM military time.  Must range from 00:00 to 23:59.  If time is unknown then enter ’99:99’  InjuryIncidentTime cannot be later than EMS Dispatch Time.  InjuryIncidentTime cannot be later than EMS Unit Arrival on Scene Time.  InjuryIncidentTime cannot be later than EMS Unit Scene Departure Time.  InjuryIncidentTime cannot be later than ED/Hospital Arrival Time.  InjuryIncidentTime cannot be later than ED Discharge Time.  InjuryIncidentTime cannot be later than Hospital Discharge Time.  Field cannot be Not Applicable. | The time the injury occurred.  Estimates of time of injury should be based upon report by patient, witness, family, or health care provider. Other proxy measures (e.g., 911 call time) should not be used. | A |
| 17 | Work-related | X | X | Yes | WorkRelated | Xs:integer | No | R | Must be a 1, 2, or 9.  If Work-Related is 1 (Yes) then Patient's Occupation should not be entered as (99) unknown.  If Work-Related is 1 (Yes) then Patient's Occupational Industry should not be entered as (99) unknown.  Field cannot be Not Applicable. | Indication of whether the injury occurred during paid employment.  1 = Yes 2 = No 9=UNK | A |
| 18 | Patient Street Address | X | X | No | PatientStreetAddress | Xs:string | No | R | Must be present.  If patients are not classified as homeless, migrant workers, or undocumented citizen then address is unknown enter ‘UNK’. If patients are classified as homeless, migrant workers, or undocumented citizen then address is not applicable enter ‘NA’ and fill out Alternate Home Residence. | The patient’s home street address. | A |
| 19 | Incident City | X | X | Yes | IncidentCity | Xs:string | No | R | Must be present and must be the text value of the Incident City name.  Completed when Incident Location ZIP/Postal code is "Not Known/Not Recorded", and country is US.  If Incident Country is not US, report the null value "Not Applicable"  If Incident City is unknown then enter ‘UNK’ and not applicable then enter 'NA'. | The city or township where the patient was found or to which the unit responded (or best approximation).  Used to calculate FIPScode.  If incident location resides outside of formal city boundaries, report nearest city/town. | W |
| 20 | Alcohol Screen | X |  | Yes | AlcoholScreen | Xs:String | No | R | A blood alcohol concentration (BAC) test was performed on the patient within 24 hours after first hospital encounter.  1. Yes  2. No | Alcohol screen may be administered at any facility, unit, or setting treating this patient event.  Field cannot be blank.  Field cannot be Not Applicable | A |
| 21 | Alcohol Screen Results | X |  | Yes | AlcoholScreenResults | Xs:String | No | C | First recorded blood alcohol concentration (BAC) results within 24 hours after first hospital encounter. | Collect as X.XX standard lab value (e.g. result is 80 mg/dL report out as a percentage 0.08).  Record BAC results within 24 hours after first hospital encounter, at either your facility or the  transferring facility.  Leave empty for those patient who were not tested.  Cannot be blank if Alcohol Screen = 1(Yes) | A |
| 22 | DrugScreen | X |  | Yes | DrugScreen | Xs:String | YES: Max 5 | R | First recorded positive drug screen results within 24 hours after first hospital encounter (select all that  apply).  1. AMP (Amphetamine)  2. BAR (Barbiturate)  3. BZO (Benzodiazepines)  4. COC (Cocaine)  5. mAMP (Methamphetamine)  6. MDMA (Ecstasy) 7. MTD (Methadone)  8. OPI (Opioid)  9. OXY (Oxycodone)  10. PCP (Phencyclidine)  11. TCA (Tricyclic Antidepressant)  12. THC (Cannabinoid)  13. Other  14. None  15. Not Tested | Record positive drug screen results within 24 hours after first hospital encounter, at either your  facility or the transferring facility.  "None" is reported for patients whose only positive results are due to drugs administered at any  facility (or setting) treating this patient event, or for patients who were tested and had no positive  results.  If multiple drugs are detected, only report drugs that were not administered at any facility (or  setting) treating this patient event.  Field cannot be blank.  Field cannot be Not Applicable | A |
| 23 | Patient City | X | X | Yes | HomeCity | Xs:string | No | R | Must be present and must be the text value of the Patient’s Home City name.  Completed when ZIP/Postal code is "Not Known/Not Recorded" and country is US.  If patient city is unknown then enter ‘UNK’. | The patient’s city (or township, or village) of residence.  Completed when ZIP/Postal code is "Not Known/Not Recorded" and country is US. | A |
| 24 | Initial Glasgow Eye Component in ED | X |  | Yes | GcsEye | Xs:integer | no | C | Must be coded as:  0. Not Recorded  1. No eye movement whenassessed  2. Opens eyes in responseto painful stimulation  3. Opens eyes in responseto verbal stimulation  4. Opens eyes spontaneously | First recorded Glasgow Coma Score (Eye) in the ED/hospital within 30 minutes or less of ED/hospital arrival.  Used to calculate Overall GCS - ED Score.  If a patient does not have a numeric GCS score recorded, but written documentation closely (or directly) relates to verbiage describing a specific level of functioning within the GCS scale, the appropriate numeric score may be listed. E.g. the chart indicates: "patients pupils are PERRL," an Eye GCS of 4 may be recorded, IF there is no other contradicting documentation.  Field cannot be Not Applicable.  Please note that first recorded/hospital vitals do not need to be from the same assessment. | A |
| 25 | Initial Glasgow Verbal Component in ED | X |  | Yes | GcsVerbal | Xs:integer | No | C | Must be coded as:  Pediatric (<= 2 Years)  1.No Vocal Response  2. Inconsolable, agitated  3. Inconsistently consolable, moaning  4. Cries but is consolable, inappropriate interactions  5. Smiles, oriented to sounds, follow objects, interacts  Adult  1. No verbal response  2. Incomprehensible sounds  3. Inappropriate words  4. Confused  5. Oriented  Pediatric/ Adult  0. Not Recorded | First recorded Glasgow Coma Score (Verbal) within 30 minutes or less of ED/hospital arrival.  Used to calculate Overall GCS - ED Score  If patient is intubated then the GCS Verbal scoreis equal to 1.  If a patient does not have a numeric GCS score recorded, but written documentation closely (or directly) relates to verbiage describing a specific level of functioning within the GCS scale, the appropriate numeric score may be listed. E.g. the chart indicates: "patient is oriented to person place and time," a Verbal GCS of 5 may be recorded, IF there is no other contradicting documentation.  Field cannot be Not Applicable.  Please note that first recorded/hospital vitals do not need to be from the same assessment. | A |
| 26 | Initial Glasgow Motor Component in ED | X |  | Yes | GcsMotor | Xs:integer | No | C | Must be coded as:  Pediatric (<= 2 Years)  1. No motor response  2. Extension to pain  3. Flexion to pain  4. Withdrawal from pain  5. Localizing pain  6. Appropriate response to stimulation  Adult  1. No motor response  2. Extension to pain  3. Flexion to pain  4. Withdrawal from pain  5. Localizing pain  6. Obeys commands  Pediatric/ Adult  0. Not Recorded | First recorded Glasgow Coma Score (Motor) within 30 minutes or less of ED/hospital arrival.  Used to calculate Overall GCS – ED Score.  If a patient does not have a numeric GCS score recorded, but written documentation closely (or directly) relates to verbiage describing a specific level of functioning within the GCS scale, the appropriate numeric score may be listed.E.g. the chart indicates: "patient withdraws from a painful stimulus," a Motor GCS of 4 maybe recorded, IF there is no other contradicting documentation.  Field cannot be Not Applicable.  Please note that first recorded/hospitalvitals do not need to be from the same assessment.  Field cannot be Not Applicable. | A |
| 27 | Glasgow Coma Score Total in the ED | X |  | Yes | TotalGcs | Xs:integer | No | C | May be present.  If present must be numeric and must be the sum of Eye, Verbal and Motor. | First recorded Glasgow Coma Score (total) within 30 minutes or less of ED/hospital arrival.  If a patient does not have a numeric GCS recorded, but there is documentation related to their level of consciousness such as "AAOx3," "awake alert and oriented,"or "patient with normal mental status,"interpret this as GCS of 15 IF there is no other contradicting documentation.  Please note that first recorded/hospital vitals do not need to be from the same assessment.  Sum of Eye, Verbal, and Motor valid 2 digit score should add up to the total. Do not include unknown or not applicable code in summation.  Field cannot be Not Applicable. | A |
| 28 | Glasgow Coma Score Assessment Qualifier in the ED | X |  | Yes | GcsQualifier | Xs:integer | Yes Max 3 | C | May be present.  If present must be coded as:  0. Not Recorded  1. Patient Chemically Sedated or Paralyzed  2. Obstruction to the Patient's Eye  3. Patient Intubated  4. Valid GCS: Patient was not sedated, not  intubated, and did not have obstruction to the eye | Documentation of factors potentially affecting the first assessment of GCS within 30 minutes or less of ED/hospital arrival.  Identifies treatments given to the patient that may affect the first assessment of GCS. This field does not apply to self-medications the patient may administer (i.e., ETOH, prescriptions, etc.).  If an intubated patient has recently received an agent that results in neuromuscular blockade such that a motor or eye response is not possible, then the patient should be considered to have an exam that is not reflective of their neurologic status and the chemical sedation modifier should be selected.  Neuromuscular blockade is typically induced following the administration of agent like succinylcholine, mivacurium,rocuronium, (cis)atracurium, vecuronium,or pancuronium.While these are the most common agents, please review what might be typically used in your center so it can be identified in the medical record.  Each of these agents has a slightly different duration of action, so their effect on the GCS depends on when they were given. For example, succinylcholine's effects last for only 5-10 minutes.  Please note that first recorded/hospital vitals do not need to be from the same assessment. | A |
| 29 | Respiration Rate | X | X | Yes | RespiratoryRate | Xs:integer | No | R | Must be present.  Must be numeric.  888 = Not Recorded  999 = Unknown  Cannot be > 99 for age in years >= 6 OR RR cannot be > 120 for age in years < 6. If age and age units are not valued, RR cannot be> 120  Cannot be > 99 and < = 120 for age in years < 6. If age and  age units are not valued, RR cannot be > 99 | First recorded respiratory rate in the ED/hospital within 30 minutes or less of ED/hospital arrival (expressed as a number per minute).  If available, complete additional field:Initial ED/Hospital RespiratoryAssistance.  Please note that first recorded/hospital vitals do not need to be from the same assessment.  Field cannot be Not Applicable. | W |
| 30 | Blood Pressure | X | X | Yes | Sbp | Xs:integer | No | R | Must be present.  Must be numeric.  Must be between 0 and 299.  888 = Not Recorded  999 = Unknown | First recorded systolic blood pressure in the ED/hospital within 30 minutes or less of ED/hospital arrival.  Please note that first recorded/hospital vitals do not need to be from the same assessment.  Measurement recorded must be without the assistance of CPR or any type of mechanical chest compression device. For those patients who are receiving CPR or any type of mechanical chest compressions, report the value obtained while compressions are paused.  Field cannot be Not Applicable. | W |
| 31 | Pulse Rate | X | X | Yes | PulseRate | Xs:integer | No | R | Must be present.  Must be numeric.  Must be between 0 and 299.  888 = Not Recorded  999 = Unknown | First recorded pulse in theED/hospital (palpated or auscultated) within 30 minutes or less of ED/hospital arrival (expressed as a number per minute).  Please note that first recorded/hospital vitals do not need to be from the same assessment.  Measurement recorded must be without the assistance of CPR or any type of mechanical chest compression device. For those patients who are receiving CPR or any type of mechanical chest compressions, report the value obtained while compressions are paused.  Field cannot be Not Applicable. | W |
| 32 | Incident State | X | X | Yes | IncidentState | Xs:string | No | R | Must be present and must be a valid 2-digit postal state code as found in Table 2. | The state, territory, or province where the patient was found or to which the unit responded (or best approximation).    Only completed when Incident Location ZIP/Postal code is "Not Known/Not Recorded", and country is US.  If incident Country is not US, report the null value "Not Applicable" coded as "NA".  Used to calculate FIPS code. | W |
| 33 | Transport Mode | X | X | Yes | TransportMode | Xs:string | No | R | Must be present.  When present must be coded as:  1. Ground Ambulance  2. Helicopter Ambulance  3. Fixed-wing Ambulance  4. Private/Public Vehicle/Walk-in  5. Police  6. Other  9. Unknown  Field cannot be Not Applicable. | The mode of transport delivering the patient to your hospital. | B |
| 34 | DPH Facility ID Number | X | X | No | DPHFacilityIDNumber | Xs:string | No |  | Must be valid code from table 1. | A number assigned by the Department of Public Health to identify the facility. | B |
| 35 | Service Level | X |  | No | ServiceLevel | Xs:integer | No |  | Must be coded as:  1 - Outpatient Emergency Department Stay  2- Outpatient Observation Stay  3 – Inpatient Stay  4 - Death on Arrival | The highest level of service provided in the hospital setting.  Code values 1-4. | B |
| 36 | Patient Home Country | X | X | Yes | PatientHomeCountry | Xs:string | No | C | 2 digit alpha country code.  If patient home country unknown or not applicable then enter ‘NA’.  If Patient's Home Country is not US, then the null value "Not Applicable" is used for: Patient's Home County. | The country where the patient resides.  Relevant value for data element (two digit alpha country code)  Values are two character FIPS codes representing the country (e.g.,US).  If Patient's Home Country is not US, then the null value "Not Applicable" is used for: Patient's Home County and Patient's Home City. | B |
| 37 | Patient Home County | X | X | Yes | PatientHomeCounty | Xs:integer | No | C | Must be a 3 digit numeric FIPS code.  If patient home county unknown or not applicable then enter ‘NA’.  The null value "Not Applicable" coded as "NA" is used if Patient's Home Zip/Postal Code is reported. | The patient's county (or parish) of residence.  Relevant value for data element (three digit numeric FIPS code).  Only completed when ZIP/Postal code is "Not Known/Not Recorded" and country is US.  Used to calculate FIPS code. | B |
| 38 | Alternate Home Residence | X | X | Yes | AlternateHomeResidence | Xs:String | No | C | Must be coded as:  1 – Homeless  2 – Undocumented Citizen  3 – Migrant worker  The null value "Not Applicable" coded as "NA" is used if Patient's Home Zip/Postal Code is reported. | Documentation of the type of patient without a home ZIP/Postal code.  Only completed when ZIP/Postal code is "Unknown."  Homeless is defined as a person who lacks housing. The definition also includes a person living in transitional housing or a supervised public or private facility providing temporary living quarters.  Undocumented Citizen is defined as a national of another country who has entered or stayed in another country without permission.  Migrant Worker is defined as a person who temporarily leaves his/her principal place of residence within a country in order to accept seasonal employment in the same or different country. | B |
| 39 | Age | X | X | Yes | Age | Xs:integer | No | R | Age must be within the valid range of 0 – 120.  Injury Date minus Date of Birth should equal submitted Age as expressed in the Age Units specified.  Age is greater than expected for the Age Units specified. Age should not exceed 60 minutes, 24 hours, 30 days,24 months, or 120 years. Please verify this is correct.  Field must be Not Applicable when Age Units is Not Applicable.  Field must be Not Known/Not Recorded when Age Units is Not Known/Not  Recorded.  If the age is not recorded or unknown along with the date of birth then code as '999'. Otherwise, calculate the age and age units using the date of birth and/or notes pertaining to the patient's age. | The patient's age at the time of injury (best approximation).  Used to calculate patient age in minutes, hours, days, months, or years.  If Date of Birth is “Not Known/Not Recorded”, complete variables: Age and Age Units.  If Date of Birth equals ED/Hospital Arrival Date, then the Age and Age Units variables must be completed.  Must also complete variable: Age Units.  Must be less than or equal to 120. | B |
| 40 | Age Units | X | X | Yes | AgeUnits | Xs:integer | No | R | Must be coded as:  1 – Hours  2 - Days  3 – Months  4 – Years  5 - Minutes  Field must be Not Applicable when Age is Not Applicable.  Field must be Not Known/Not Recorded when Age is Not Known/Not Recorded.  If the age units is not recorded or unknown along with the date of birth then code as '9'. Otherwise, calculate the age and age units using the date of birth and/or notes pertaining to the patient's age. | The units used to document the patient's age (Minutes, Hours, Days, Months, Years).  Used to calculate patient age in minutes, hours, days, months, or years.  If Date of Birth is “Not Known/Not Recorded”, complete variables: Age and Age Units.  If Date of Birth equals ED/Hospital Arrival Date, then the Age and Age Units variables must be completed.  Must also complete variable: Age. | B |
| 41 | Ethnicity | X | X | Yes | Ethnicity | Xs:integer | No | R | Must be coded as:  1. Hispanic or Latino  2. Not Hispanic or Latino  9. Unknown  Based on the 2010 US Census Bureau .  Field must be Not Applicable (non-US).  Field cannot be Not Applicable (US only). | The patient's ethnicity.  Patient ethnicity should be based upon self-report or identified by a family member. | B |
| 42 | Patient Occupational Industry | X |  | Yes | PatientOccupationalIndustry | Xs:integer | No | C | Must be coded as:  1. Finance, Insurance, and Real Estate 2. Manufacturing  3. Retail Trade  4. Transportation and Public Utilities 5. Agriculture, Forestry, Fishing  6. Professional and Business Services  7. Education and Health Services  8. Construction  9. Government  10. Natural Resources and Mining  11. Information Services  12. Wholesale Trade  13. Leisure and Hospitality  14. Other Services  99. Unknown  If the injury is work related then complete the Patient Occupation and Patient Occupational Industry data fields. Otherwise, complete when the information is available. If no information is available then code as unknown '99'. | The occupational industry associated with the patient's work environment.  If work related, also complete Patient's Occupation.  Based upon US Bureau of Labor Statistics Industry Classification. | B |
| 43 | Patient Occupation | X | X | Yes | PatientOccupation | Xs:integer | No | C | Must code as:  1. Business and Financial Operations Occupations  2. Architecture and Engineering Occupations  3. Community and Social Services Occupations  4. Education, Training, and Library Occupations  5. Healthcare Practitioners and Technical Occupations  6. Protective Service Occupations  7. Building and Grounds Cleaning and Maintenance  8. Sales and Related Occupations  9. Farming, Fishing, and Forestry Occupations  10. Installation, Maintenance, and Repair  Occupations  11. Transportation and Material Moving Occupations  12. Management Occupations  13. Computer and Mathematical Occupations  14. Life, Physical, and Social Science Occupations  15. Legal Occupations  16. Arts, Design, Entertainment, Sports ,and Media  17. Healthcare Support Occupations  18. Food Preparation and Serving Related  19. Personal Care and Service Occupations  20. Office and Administrative Support Occupations  21. Construction and Extraction Occupations  22. Production Occupations  23. Military Specific Occupations  99. Unknown | The occupation of the patient.  Only completed if injury is work-related.  If work related, also complete Patient's Occupational Industry.  Based upon 1999 US Bureau of Labor Statistics Standard Occupational Classification (SOC).  If the injury is work related then complete the Patient Occupation and Patient Occupational Industry data fields. Otherwise, complete when the information is available. If no information is available then code as unknown '99'. | B |
| 44 | ICD10 Primary External Cause Code | X | X | Yes | ICD10PrimaryExternalCauseCode | Xs:string | No | R | Must be present.  Must be a valid ICD-10-CM Ecode 3 to 7 digits/characters long. (exclude decimal point) V00-Y38, Y62-Y84 with exclusion criteria listed below.  Exclude Y90.XXX - Y99.XXX, and Z00.XXX – Z99.XXX as they are not valid for Primary code. | Relevant ICD-10-CM code value for injury event  The primary external cause code should describe the main reason a patient is admitted to the hospital.  External cause codes are used to auto-generate two calculated fields: Trauma Type (Blunt, Penetrating, Burn) and Intentionality (based upon CDC matrix).  ICD-10-CM codes will be accepted for this data element. Activity codes should not be reported in this field.  Must be a valid ICD-10-CM Ecode 3 to 7 digits/characters long. (exclude decimal point) V00-Y38, Y62-Y84 with exclusion criteria listed below.  Exclude Y90.XXX - Y99.XXX, and Z00.XXX – Z99.XXX as they are not valid for Primary code. | W |
| 45 | ICD10 Place of Occurrence External Cause Code | X | X | Yes | ICD10PlaceofOccurrenceExternalCauseCode | Xs:string | No | R | Must be a valid value (ICD-10 CM only).  Place of Injury code should be Y92.X/Y92.XX/Y92.XXX (where X is A-Z [excluding I,O]or 0-9) (ICD-10 CM only).  Invalid value (ICD-10 CA only).  Place of Injury code should be U98X (where X is 0-9)(ICD-10 CA only). | Place of occurrence external cause code used to describe the place/site/location of the injury event (Y92.x).  Relevant ICD-10-CM code value for injury event.  Only ICD-10-CM codes will be accepted for ICD-10 Place of Occurrence External Cause Code.  Must be a valid ICD-10-CM code Y92.XXXX 3 to 7 digits/characters long (exclude decimal point). | W |
| 46 | Incident Location Postal Code | X | X | Yes | IncidentLocationPostalCode | Xs:string | No | R | Must be a valid Zip/Postal code if Incident Country is US.    If incident location postal code is unknown then enter ‘999999999’. If incident location postal code is a foreign zip code then enter ‘888888888’.  If "Not Known/Not Recorded", record appropriate code and complete variables: Incident Country, Incident State (US ONLY), Incident County (US ONLY) and Incident City (US ONLY).  Field cannot be Not Applicable . | The ZIP/Postal code of the incident location.  Can be stored as a 5 or 9 digit code (XXXXXXXXX) for US and CA, or can be stored in the postal code format of the applicable country.  If "Not Applicable" or "Not Known/Not Recorded, "complete variables: Incident Country, Incident State (US Only), Incident County (US Only) and Incident City (US Only).  May require adherence to HIPAA regulations.  If ZIP/Postal code is known, then must complete Incident Country. | B |
| 47 | Incident Country | X |  | Yes | IncidentCountry | Xs:string | No | R | Must be a valid 2 character FIPS code.  If Incident Country is unknown or not applicable then enter ‘NA’.  Field cannot be Not Known/Not Recorded when Home Zip is not:(1) blank, (2)Not  Applicable, or(3) Not Known/Not Recorded.  If Incident Country is not US, then the null value "Not Applicable" coded as "NA" is used for: Incident State and Incident County. | The country where the patient was found or to which the unit responded (or best approximation).  Relevant value for data element (two digit alpha country code).  Values are two character FIPS codes representing the country (e.g.,US).  If Incident Country is not US, then the null value "Not Applicable" is used for: Incident State and Incident County. | B |
| 48 | Incident County | X |  | Yes | IncidentCounty | Xs:string | No | R | Must be a valid 3 character FIPS code.  Field must be Not Applicable (Non-US).  If Incident County is unknown or not applicable then enter ‘NA’.  The null value "Not Applicable" coded as "NA" is used if Incident Location Zip/Postal Code is reported.  If Incident Country is not US, report the null value "Not Applicable" coded as "NA". | The county or parish where the patient was found or to which the unit responded (or best approximation).  Relevant value for data element (three digit numeric FIPS code)  Only completed when Incident Location ZIP/Postal code is "Not Applicable" or "Not Known/Not Recorded", and country is US.  Used to calculate FIPS code. | B |
| 49 | Report of Physical Abuse | X | X | Yes | ReportofPhysicalAbuse | Xs:integer | No | R | Must be coded as:  1. Yes  2. No | A report of suspected physical abuse was made to law enforcement and/or protective services.  This includes, but is not limited to, a report of child, elder, spouse or intimate partner physical abuse. | W |
| 50 | Investigation of Physical Abuse | X |  | Yes | InvestigationofPhysicalAbuse | Xs:integer | No | C | Must be coded as:  1. Yes  2. No  9. Not Applicable  Field should be completed with a responsive code (1 or 2) when Report of Physical Abuse = 1 (Yes).  Field should be completed with a responsive code (1, 2 or 9) when Report of Physical Abuse = 2 (No).  Not Applicable = "9". | An investigation by law enforcement and/or protective services was initiated because of the suspected physical abuse.  This includes, but is not limited to, a report of child, elder, spouse or intimate partner physical abuse. | W |
| 51 | Caregiver at Discharge | X |  | Yes | CaregiveratDischarge | xs:integer | No | C | Must be coded as:  1. Yes  2. No  9. Not Applicable  If the Report of Physical Abuse has been coded a 1 (Yes) then Caregiver at Discharge can be coded according to the circumstances at the time of release (1, 2, or 9). | The patient was discharged to a caregiver different than the caregiver at admission due to suspected physical abuse.  Only complete when Report of Physical Abuse is 1. Yes.  Only complete for minors as determined by state/local definition, excluding emancipated minors.  The null value "Not Applicable" should be used for patients where Report of Physical Abuse is 2. No or where older than the state/local age definition of a minor.  The null value “Not Applicable” should be used if the patient expires prior to discharge. | W |
| 52 | EMS Dispatch Date | X | X | Yes | EMSDispatchDate | Xs:date | no | R | Must be a valid date format (CCYYMMDD).  If date is unknown/not applicable then enter ‘99999999’.  EMS Dispatch Date cannot be earlier than Date of Birth  EMS Dispatch Date cannot be later than EMS Unit Arrival on Scene Date.  EMS Dispatch Date cannot be later than EMS Unit Scene Departure Date.  EMS Dispatch Date cannot be later than ED/Hospital Arrival Date.  EMS Dispatch Date cannot be later than ED Discharge Date.  EMS Dispatch Date cannot be later than Hospital Discharge Date.  The null value "Not Applicable" is used for patients who were not transported by EMS. | The date the unit transporting to your hospital was notified by dispatch.  Used to auto-generate an additional calculated field: Total EMS Time (elapsed time from EMS dispatch to hospital arrival).  For inter-facility transfer patients, this is the date on which the unit transporting the patient to your facility from the transferring facility was notified by dispatch or assigned to this transport.  For patients transported from the scene of injury to your hospital, this is the date on which the unit transporting the patient to your facility from the scene was dispatched. | W |
| 53 | EMS Dispatch Time | X | X | Yes | EMSDispatchTime | Xs:time | No | R | Collected as HH:MM military time.  Must range from 00:00 to 23:59.  If time is unknown/not applicable then enter ’99:99’  EMS Dispatch Time cannot be later than EMS Unit Arrival on Scene Time.  EMS Dispatch Time cannot be later than EMS Unit Scene Departure Time.  EMS Dispatch Time cannot be later than ED/Hospital ArrivalTime.  EMS Dispatch Time cannot be later than ED Discharge Time.  EMS Dispatch Time cannot be later than Hospital Discharge Time.  The null value "Not Applicable" is used for patients who were not transported by EMS. | The time the unit transporting to your hospital was notified by dispatch.  Used to auto-generate an additional calculated field: Total EMS Time (elapsed time from EMS dispatch to hospital arrival).  For inter-facility transfer patients, this is the time at which the unit transporting the patient to your facility from the transferring facility was notified by dispatch.  For patients transported from the scene of injury to your hospital, this is the time at which the unit transporting the patient to your facility from the scene was dispatched. | W |
| 54 | EMS Unit Arrival Date at Scene or Transferring Facility | X | X | Yes | EMSUnitArrivalDateatSceneorTransferringFacility | Xs:date | No | R | Must be a valid date format (CCYYMMDD).  If date is unknown/not applicable then enter ‘99999999’.  EMS Unit Arrival on Scene Date cannot be earlier than Date of Birth.  EMS Unit Arrival on Scene Date cannot be earlier than EMS Dispatch Date.  EMS Unit Arrival on Scene Date cannot be later than EMS Unit Scene Departure Date.  EMS Unit Arrival on Scene Date cannot be later than ED/Hospital Arrival Date.  EMS Unit Arrival on Scene Date cannot be later than ED Discharge Date.  EMS Unit Arrival on Scene Date cannot be later than Hospital Discharge Date.  EMS Unit Arrival on Scene Date minus EMS Dispatch Date cannot be greater than 7 days.  The null value "Not Applicable" is used for patients who were not transported by EMS. | The date the unit transporting to your hospital arrived on the scene/transferring facility.  Used to auto-generate two additional calculated fields: Total EMS Response Time (elapsed time from EMS dispatch to scene arrival) and Total EMS Scene Time (elapsed time from EMS scene arrival to scene departure).  For inter-facility transfer patients, this is the date on which the unit transporting the patient to your facility from the transferring facility arrived at the transferring facility(arrival is defined at date/time when the vehicle stopped moving).  For patients transported from the scene of injury to your hospital, this is the date on which the unit transporting the patient to your facility from the scene arrived at the scene (arrival is defined at date/time when the vehicle stopped moving). | W |
| 55 | EMS Unit Arrival Time at Scene or Transferring Facility | X | X | Yes | EMSUnitArrivalTimeatSceneorTransferringFacility | Xs:time | No | R | Collected as HH:MM military time.  Must range from 00:00 to 23:59.  If time is unknown/not applicable then enter ’99:99’.  EMS Unit Arrival on Scene Time cannot be earlier than EMS Dispatch Time.  EMS Unit Arrival on Scene Time cannot be later than EMS Unit Scene Departure Time.  EMS Unit Arrival on Scene Time cannot be later than ED/Hospital Arrival Time.  EMS Unit Arrival on Scene Time cannot be later than ED Discharge Time.  EMS Unit Arrival on Scene Time cannot be later than Hospital Discharge Time.  The null value "Not Applicable" is used for patients who were not transported by EMS. | The time the unit transporting to your hospital arrived on the scene.  Used to auto-generate two additional calculated fields: Total EMS Response Time (elapsed time from EMS dispatch to scene arrival) and Total EMS Scene Time (elapsed time from EMS scene arrival to scene departure).  For inter-facility transfer patients, this is the time at which the unit transporting the patient to your facility from the transferring facility arrived at the transferring facility(arrival is defined at date/time when the vehicle stopped moving).  For patients transported from the scene of injury to your hospital, this is the time at which the unit transporting the patient to your facility from the scene arrived at the scene (arrival is defined at date/time when the vehicle stopped moving). | W |
| 56 | EMS Unit Departure Date from Scene or Transferring Facility | X | X | Yes | EMSUnitDepartureDatefromSceneorTransferringFacility | Xs:date | No | R | Must be a valid date format (CCYYMMDD).  If date is unknown/not applicable then enter ‘99999999’.  EMS Unit Scene Departure Date cannot be earlier than Date of Birth.  EMS Unit Scene Departure Date cannot be earlier than EMS Dispatch Date.  EMS Unit Scene Departure Date cannot be earlier than EMS Unit Arrival on Scene Date.  EMS Unit Scene Departure Date cannot be later than ED/Hospital Arrival Date.  EMS Unit Scene Departure Date cannot be later than ED Discharge Date.  EMS Unit Scene Departure Date cannot be later than Hospital Discharge Date.  EMS Unit Scene Departure Date minus EMS Unit Arrival on Scene Date cannot be greater than 7 days.  The null value "Not Applicable" is used for patients who were not transported by EMS. | The date the unit transporting to your hospital left the scene.  Used to auto-generate an additional calculated field: Total EMS Scene Time (elapsed time from EMS scene arrival to scene departure).  For inter-facility transfer patients, this is the date on which the unit transporting the patient to your facility from the transferring facility departed from the transferring facility (departure is defined at date/time when the vehicle started moving).  For patients transported from the scene of injury to your hospital, this is the date on which the unit transporting the patient to your facility from the scene  departed from the scene (departure is defined at date/time when the vehicle started moving). | W |
| 57 | EMS Unit Departure Time from Scene or Transferring Facility | X | X | Yes | EMSUnitDepartureTimefromSceneorTransferringFacility | Xs:time | No | R | Collected as HH:MM military time.  Must range from 00:00 to 23:59.  If time is unknown/not applicable then enter ’99:99’.  EMS Unit Scene Departure Time cannot be earlier than EMS Dispatch Time.  EMS Unit Scene Departure Time cannot be earlier than EMS Unit Arrival on Scene Time.  EMS Unit Scene Departure Time cannot be later than ED/Hospital Arrival Time.  EMS Unit Scene Departure Time cannot be later than the ED Discharge Time.  EMS Unit Scene Departure Time cannot be later than Hospital Discharge Time.  The null value "Not Applicable" is used for patients who were not transported by EMS. | The time the unit transporting to your hospital left the scene.  Used to auto-generate an additional calculated field: Total EMS Scene Time (elapsed time from EMS scene arrival to scene departure).  For inter-facility transfer patients, this is the time at which the unit transporting the patient to your facility from the transferring facility departed from the transferring facility (departure is defined at date/time when the vehicle started moving).  For patients transported from the scene of injury to your hospital, this is the time at which the unit transporting the patient to your facility from the scene departed from the scene (departure is defined at date/time when the vehicle started moving). | W |
| 58 | Initial Field systolic blood pressure | X |  | Yes | InitialFieldsystolicbloodpressure | Xs:integer | No |  | Must be a 3 digit entry between 0 and 299.  If Initial Field Systolic Blood Pressure is Not Known then enter code ’999'.  If Initial Field Systolic Blood Pressure is Not Recorded then enter code ’888'. | First recorded systolic blood pressure measured at the scene of injury.  The null value "Not Known/Not Recorded" is used if the patient is transferred to your facility with no EMS Run Report from the scene of injury.  Measurement recorded must be without the assistance of CPR or any type of mechanical chest compression device. For those patients who are receiving CPR or any type of mechanical chest compressions, report the value obtained while compressions are paused.  The null value "Not Applicable" is used for patients who arrive by 4.Private/Public Vehicle/Walk-in. | W |
| 59 | Initial Field Pulse Rate | X |  | Yes | InitialFieldPulseRate | Xs:integer | No | R | Must be a 3 digit entry between 0 and 299.  If Initial Field Pulse Rate is Not Known then enter ‘999’.  If Initial Field Pulse Rate is Not Recorded then enter ‘888’. | First recorded pulse measured at the scene of injury (palpated or auscultated), expressed as a number per minute.  The null value "Not Known/Not Recorded" is used if the patient is transferred to your facility with no EMS Run Report from the scene of injury.  Measurement recorded must be without the assistance of CPR or any type of mechanical chest compression device. For those patients who are receiving CPR or any type of mechanical chest compressions, report the value obtained while compressions are paused.  The null value "Not Applicable" is used for patients who arrive by 4. Private/Public Vehicle/Walk-in. | W |
| 60 | Initial Field Respiratory Rate | X |  | Yes | InitialFieldRespiratoryRate | Xs:integer | No | R | Must be a 3 digit numeric entry.  If Initial Field Respiratory Rate is Not Known then enter ‘999’.  If Initial Field Respiratory Rate is Not Recorded then enter ‘888’.  If Initial Field Respiratory Rate is Not Applicable then enter ‘777’.  RR cannot be> 99 for age in years >= 6 OR RR cannot be > 120 for age in years< 6. If age and age units are not valued, RR cannot be> 120.  RR cannot be>99 and <=120for age in years < 6. If age and  Age units are not valued, RR cannot be > 99. | First recorded respiratory rate measured at the scene of injury (expressed as a number per minute).  The null value "Not Known/Not Recorded" is used if the patient is transferred to your facility with no EMS Run Report from the scene of injury.  The null value "Not Applicable" is used for patients who arrive by 4. Private/Public Vehicle/Walk-in. | W |
| 61 | Initial Field Oxygen Saturation | X |  | Yes | InitialFieldOxygenSaturation | Xs:integer | No | R | Must be a 3 digit entry and numeric.  Must be a value between 0 and 100.  If Initial Field Oxygen Saturation is Not Known then enter ‘999’.  If Initial Field Oxygen Saturation is Not Recorded then enter ‘888’.  If Initial Field Oxygen Saturation is Not Applicable then enter ‘777’. | First recorded oxygen saturation measured at the scene of injury (expressed as a percentage).  The null value "Not Known/Not Recorded" is used if the patient is transferred to your facility with no EMS Run Report from the scene of injury.  Value should be based upon assessment before administration of supplemental oxygen.  The null value "Not Applicable" is used for patients who arrive by 4. Private/Public Vehicle/Walk-in. | W |
| 62 | Initial Field GCS EYE | X |  | Yes | InitialFieldGCSEYE | Xs:integer | No | R | Must be present and coded as:  1. No eye movement when assessed  2. Opens eyes in response to painful stimulation  3. Opens eyes in response to verbal stimulation  4. Opens eyes spontaneously | First recorded Glasgow Coma Score (Eye) measured at the scene of injury.  Used to calculate Overall GCS - EMS Score.  The null value "Not Known/Not Recorded" is used if the patient is transferred to your facility with no EMS Run Report from the scene of injury.  If a patient does not have a numeric GCS score recorded, but written documentation closely (or directly) relates to verbiage describing a specific level of functioning within the GCS scale, the appropriate numeric score may be listed. E.g. the chart indicates: "patients pupils are PERRL," an Eye GCS of 4 may be recorded, IF there is no other contradicting documentation.  If Initial Field GCS Eye is unknown/not recorded then enter '9'.  The null value "Not Applicable" is used for patients who arrive by 4. Private/Public Vehicle/Walk-in. | W |
| 63 | Initial Field GCS Verbal | X |  | Yes | InitialFieldGCSVerbal | Xs:integer | No | R | Must be present and coded as:  Pediatric (<= 2 Years)  1.No Vocal Response  2. Inconsolable, agitated  3. Inconsistently consolable, moaning  4. Cries but is consolable, inappropriate interactions  5. Smiles, oriented to sounds, follow objects, interacts  Adult  1. No verbal response  2. Incomprehensible sounds  3. Inappropriate words  4. Confused  5. Oriented | First recorded Glasgow Coma Score (Verbal) measured at the scene of injury.  Used to calculate Overall GCS - EMS Score.  The null value "Not Known/Not Recorded" is used if the patient is transferred to your facility with no EMS Run Report from the scene of injury.  If patient is intubated then the GCS Verbal score is equal to 1.  If a patient does not have a numeric GCS score recorded, but written documentation closely (or directly) relates to verbiage describing a specific level of functioning within the GCS scale, the appropriate numeric score may be listed. E.g. the chart indicates: "patient is oriented to person place and time," a Verbal GCS of 5 may be recorded, IF there is no other contradicting documentation.  If Initial Field GCS Verbal is unknown/not recorded then enter '9'.  The null value "Not Applicable" is used for patients who arrive by 4.Private/Public Vehicle/Walk-in. | W |
| 64 | Initial Field GCS Motor | X |  | Yes | InitialFieldGCSMotor | Xs:integer | No | R | Must be present and coded as:  Pediatric (<= 2 Years)  1. No motor response  2. Extension to pain  3. Flexion to pain  4. Withdrawal from pain  5. Localizing pain  6. Appropriate response to stimulation  Adult  1. No motor response  2. Extension to pain  3. Flexion to pain  4. Withdrawal from pain  5. Localizing pain  6. Obeys commands  If Initial Field GCS Motor is unknown/not recorded then enter '9'. | First recorded Glasgow Coma Score (Motor) measured at the scene of injury.  Used to calculate Overall GCS - EMS Score.  The null value "Not Known/Not Recorded" is used if the patient is transferred to your facility with no EMS Run Report from the scene of injury.  If a patient does not have a numeric GCS score recorded, but written documentation closely (or directly) relates to verbiage describing a specific level of functioning within the GCS scale, the appropriate numeric score may be listed. E.g. the chart indicates: "patient withdraws from a painful stimulus," a Motor GCS of 4 may be recorded, IF there is no other contradicting documentation.  The null value "Not Applicable" is used for patients who arrive by 4.Private/Public Vehicle/Walk-in. | W |
| 65 | Initial Field GCS Total | X |  | Yes | InitialFieldGCSTotal | Xs:integer | No | R | The GSC Total has a valid range of 3 - 15; anything outside of the range is not valid.  Initial Field GCS - Total should equal the sum of the Initial Field GCS - Eye, Initial Field GCS - Verbal, and Initial Field GCS – Motor. the unknown/not recorded values are not valid entries for the Total.  If the entry is not known/not recorded then enter '99'.  If the entry in not applicable then enter '88'. | First recorded Glasgow Coma Score (total) measured at the scene of injury.  The null value "Not Known/Not Recorded" is used if the patient is transferred to your facility with no EMS Run Report from the scene of injury.  If a patient does not have a numeric GCS recorded, but there is documentation related to their level of consciousness such as "AAOx3," "awake alert and oriented, "or "patient with normal mental status, "interpret this as GCS of 15 IF there is no other contradicting documentation.  The null value "Not Applicable" is used for patients who arrive by 4. Private/Public Vehicle/Walk-in. | W |
| 66 | Trauma Center Criteria | X |  | Yes | Traumacentercriteria | Xs:String | No | R | Must be coded as:  1. Glasgow Coma Score <= 13  2. Systolic blood pressure< 90 mmHg  3. Respiratory rate < 10 or > 29 breaths per minute (<20 in infants aged < 1 year) or need for ventilator support  4. All penetrating injuries to head, neck, torso, and  Extremities proximal to elbow or knee  5. Chest wall instability or deformity(e.g., flail chest)  6. Two or more proximal long-bone fractures  7. Crushed, degloved, mangled, or pulseless extremity  8. Amputation proximal to wrist or ankle  9. Pelvic fracture  10. Open or depressed skull fracture  11. Paralysis  88. Not Applicable  99. Unknown/Not Recorded | Physiologic and anatomic EMS trauma triage criteria for transport to a trauma center as defined by the Centers for Disease Control and Prevention and the American College of Surgeons-Committee on Trauma. This information must be found on the scene of injury EMS Run Report.  The null value "Not Applicable" should be used to indicate that the patient did not arrive by EMS.  The null value "Not Applicable" should be used if EMS Run Report indicates patient did not meet any Trauma Center Criteria.  The null value "Not Known/Not Recorded" should be used if this information is not indicated, as an identical response choice, on the EMS Run Report or if the EMS Run Report is not available. | W |
| 67 | Vehicular Pedestrian Other Risk Injury | X |  | Yes | Vehicularpedestrianotherriskinjury | Xs:integer | No | R | Must be coded as:  1. Fall adults:> 20 ft.(one story is equal to 10 ft.)  2. Fall children: > 10 ft.or 2-3 times the height of the child  3. Crash intrusion, including roof: > 12 in. occupant site; > 18 in. any site  4. Crash ejection (partial or complete) from automobile  5. Crash death in same passenger compartment  6. Crash vehicle telemetry data (AACN) consistent with high risk injury  7. Auto v. pedestrian/bicyclist thrown, run over, or >  20 MPH impact  8. Motorcycle crash> 20 mph  9. For adults > 65; SBP < 110  10. Patients on anticoagulants and bleeding disorders  11. Pregnancy> 20 weeks  12. EMS provider judgment  13. Burns  14. Burns with Trauma  88. Not Applicable  99. Unknown/Not Recorded | EMS trauma triage mechanism of injury criteria for transport to a trauma center as defined by the Centers for Disease Control and Prevention and the American College of Surgeons-Committee on Trauma. This information must be found on the scene of injury EMS Run Report.  The null value "Not Applicable" should be used to indicate that the patient did not arrive by EMS.  The null value "Not Applicable" should be used if EMS Run Report indicates patient did not meet any Vehicular,Pedestrian, Other Risk Injury criteria.  The null value "Not Known/Not Recorded" should be used if this information is not indicated, as an identical response choice, on the EMS Run Report or if the EMS Run Report is not available. | W |
| 68 | Pre Hospital Cardiac Arrest | X | X | Yes | Prehospitalcardiacarrest | Xs:integer | No | R | Must be coded as:  1. Yes  2. No | Indication of whether patient experienced cardiac arrest prior to ED/Hospital arrival.  A patient who experienced a sudden cessation of cardiac activity. The patient was unresponsive with no normal breathing and no signs of circulation.  The event must have occurred outside of the reporting hospital, prior to admission at the center in which the registry is maintained. Pre-hospital cardiac arrest could occur at a transferring institution.  Any component of basic and/or advanced cardiac life support must have been initiated by a health care provider. | W |
| 69 | Initial ED Hospital Temperature | X |  | Yes | InitialEDHospitaltemperature | Xs:string | No | R | Must be a valid 4 digit temperature with decimals included.  Temperature cannot exceed the max of 45 Celsius.  99.9 = Unknown  88.8 = Not Recorded  Field cannot be Not Applicable. | First recorded temperature (in degrees Celsius [centigrade]) in the ED/hospital within 30 minutes or less of ED/hospital arrival.  Please note that first recorded/hospital vitals do not need to be from the same assessment.  Must be a valid 4 digit temperature with decimal included.  Temperature cannot exceed the max of 45 Celsius. | B |
| 70 | Initial ED Hospital Respiratory Assistance | X |  | Yes | InitialEDHospitalRespiratoryAssistance | Xs:integer | No | R | Must be coded as:  1. Unassisted Respiratory Rate  2. Assisted Respiratory Rate  9. Unknown  Code=9 is used if "Initial ED/Hospital Respiratory Rate" is "Not Known/Not Recorded." | Determination of respiratory assistance associated with the initial ED/hospital respiratory rate within 30 minutes or less of ED/hospital arrival.  Complete when Initial ED/Hospital Respiratory Rate is completed.  Respiratory Assistance is defined as mechanical and/or external support of respiration.  Please note that first recorded/hospital vitals do not need to be from the same assessment. | B |
| 71 | Initial ED Hospital Oxygen Saturation | X |  | Yes | InitialEDHospitalOxygenSaturation | Xs:integer | No | R | Must be a valid 3 digit entry between 0 and 100.  888 = Not Recorded  999= Unknown  Filed cannot be Not Applicable. | First recorded oxygen saturation in the ED/hospital within 30 minutes or less of ED/hospital arrival (expressed as a percentage).  Complete additional field: Initial ED/Hospital Supplemental Oxygen.  Please note that first recorded/hospital vitals do not need to be from the same assessment.  Must be a valid 3 digit entry between 0 and 100. | B |
| 72 | Initial ED Hospital Supplemental Oxygen | X |  | Yes | InitialEDHospitalSupplementalOxygen | Xs:integer | No | R | Must be coded as:  1. No Supplemental Oxygen  2. Supplemental Oxygen  9. NA | Determination of the presence of supplemental oxygen during assessment of initial ED/hospital oxygen saturation level within 30 minutes or less of ED/hospital arrival.  Only completed if a value is provided for Initial ED/Hospital Oxygen Saturation, otherwise report as "Not Applicable".  Please note that first recorded/hospital vitals do not need to be from the same assessment.  Must be valid 2 digit entry as specified in Field Values. | B |
| 73 | Initial ED Hospital Height | X |  | Yes | InitialEDHospitalHeight | Xs:integer | No | R | Must be a 3 digit entry in centimeters, no greater than 244 centimeters.  999 = Unknown  Fiield cannot be Not Applicable. | First recorded height upon ED/hospital arrival.  Recorded in centimeters.  May be based on family or self-report.  Please note that first recorded/hospital vitals do not need to be from the same assessment.  Must be a valid 3 digit entry in centimeters.  No values greater than 244 centimeters. | B |
| 74 | Initial ED Hospital Weight | X |  | Yes | InitialEDHospitalweight | Xs:integer | No | R | Must be a 3 digit entry in kilograms, no greater than 907 kilograms.  999 = Unknown  Field cannot be Not Applicable. | Measured or estimated baseline weight.  Recorded in kilograms.  May be based on family or self-report.  Please note that first recorded/hospital vitals do not need to be from the same assessment.  Must be a valid 3 digit entry in kilograms.  No values greater than 907 kilograms. | B |
| 75 | ED Discharge Disposition | X | X | Yes | EDDischargeDisposition | Xs:integer | No | R | Must be coded as:  1. Floor bed (general admission, non-specialty unit bed)  2. Observation unit (unit that provides < 24 hour stays)  3. Telemetry/step-down unit (less acuity than ICU)  4. Home with services  5. Deceased/expired  6. Other (jail, institutional care, mental health, etc.)  7. Operating Room  8. Intensive Care Unit (ICU)  9. Home without services  10. Left against medical advice  11. Transferred to another hospital  88. Unknown  99. Not Applicable  Field cannot be Not Known/Not Recorded.  Field cannot not be Not Applicable when Hospital Discharge Date is Not Applicable.  Field cannot not be Not Applicable when Hospital Discharge Date is Not Known/Not Recorded.  Field cannot not be Not Applicable when Hospital Discharge Disposition is Not Applicable.  Field cannot not be Not Applicable when Hospital Discharge Disposition is Not  Known/Not Recorded. | The disposition of the patient at the time of discharge from the ED.  The null value "Not Applicable" is used if the patient is directly admitted to the hospital.  If ED Discharge Disposition is 4, 5, 6,9, 10, 11, then Hospital Discharge Date, Time, and Disposition should be "Not Applicable". | W |
| 76 | Signs of life | X |  | Yes | Signsoflife | Xs:integer | No | R | Must be coded as:  1. Arrived with NO signs of life  2. Arrived with signs of life  99. Unknown  Field should not be Not Known/Not Recorded  Field cannot be Not Applicable  Field is 1 (Arrived with NO signs of life) when Initial ED/Hospital SBP> 0, Pulse > 0, OR GCS Motor >1. Please verify.  Field is 2 (Arrived with signs of life) when Initial ED/Hospital SBP =0,Pulse = 0,  AND GCS Motor = 1. Please verify. | Indication of whether patient arrived at ED/Hospital with signs of life.  A patient with no signs of life is defined as having none of the following: organized EKG activity, pupillary responses, spontaneous respiratory attempts or movement, and unassisted blood pressure. This usually implies the patient was brought to the ED with CPR in progress. | **B** |
| 77 | Total ICU Length of Stay | X |  | Yes | TotalICULengthofStay | Xs:integer | No | R | Must be a valid 3 digit entry not less than 1 or more than 575.  Total ICU Length of Stay is greater than the difference between ED/Hospital Arrival Date and Hospital Discharge Date  If Total ICU Length of Stay is Not Applicable then enter ‘888’. | The cumulative amount of time spent in the ICU. Each partial or full day should be measured as one calendar day.  Recorded in full day increments with any partial calendar day counted as a full calendar day.  The calculation assumes that the date and time of starting and stopping an ICU episode are recorded in the patient’s chart.  If any dates are missing then a LOS cannot be calculated.  If patient has multiple ICU episodes on the same calendar day, count that day as one calendar day.  At no time should the ICU LOS exceed the Hospital LOS.  The null value "Not Applicable" is used if the patient had no ICU days according to the above definition.  Must be a valid 3 digit entry not less than 1 or more than 575. | B |
| 78 | Total Ventilator Days | X |  | Yes | TotalVentilatorDays | Xs:integer | No | R | Must be a valid 3 digit entry not less than 1 or more than 575.  Total Ventilator Days should not be greater than the difference between ED/Hospital Arrival Date and Hospital Discharge Date.  If Total Ventilator Days is Not Applicable then enter ‘888’. | The cumulative amount of time spent on the ventilator. Each partial or full day should be measured as one calendar day.  Excludes mechanical ventilation time associated with OR procedures.  Non-invasive means of ventilatory support (CPAP or BIPAP) should not be considered in the calculation of ventilator days.  Recorded in full day increments with any partial calendar day counted as a full calendar day.  The calculation assumes that the date and time of starting and stopping Ventilator episode are recorded in the patient's chart.  If any dates are missing then a Total Vent Days cannot be calculated.  At no time should the Total Vent Days exceed the Hospital LOS.  The null value "Not Applicable" is used if the patient was not on the ventilator according to the above definition.  Must be a valid 3 digit entry not less than 1 or more than 575. | B |
| 79 | Hospital Discharge Date | X | X | Yes | HospitalDischargeDate | Xs:date | No | R | Must be a valid date format (CCYYMMDD).  If date is unknown/not applicable then enter ‘99999999’.  Hospital Discharge Date cannot be earlier than EMS Dispatch Date.  Hospital Discharge Date cannot be earlier than EMS Unit Arrival on Scene Date.  Hospital Discharge Date cannot be earlier than EMS Unit Scene Departure Date.  Hospital Discharge Date cannot be earlier than ED/Hospital Arrival Date  Hospital Discharge Date cannot be earlier than ED Discharge Date.  Hospital Discharge Date cannot be earlier than Date of Birth  Field must be Not Applicable when ED Discharge Disposition= 4,6,9,10, or 11.  Field must be Not Applicable when ED Discharge Disposition= 5 (Died). | The date the order was written for the patient to be discharged from the hospital.  Used to auto-generate an additional calculated field: Total Length of Hospital Stay(elapsed time from ED/hospital arrival to hospital discharge).  The null value "Not Applicable" is used If ED Discharge Disposition = 5 Deceased/Expired.  The null value "Not Applicable" is used If ED Discharge Disposition = 4,6,9,10, or 11.  If Hospital Discharge Disposition is 5 Deceased/Expired, then Hospital Discharge Date is the date of death as indicated on the patient’s death certificate. | B |
| 80 | Hospital Discharge Time | X |  | Yes | HospitalDischargeTime | Xs:time | No | C | Collected as HH:MM military time from 00:00 to 23:59.  If time is unknown/not applicable then enter ’99:99’.  Hospital Discharge Time cannot be earlier than EMS Dispatch Time.  Hospital Discharge Time cannot be earlier than EMS Unit Arrival on Scene Time.  Hospital Discharge Time cannot be earlier than EMS Unit Scene Departure Time.  Hospital Discharge Time cannot be earlier than ED/Hospital Arrival Time.  Hospital Discharge Time cannot be earlier than ED Discharge Time.  Field must be Not Applicable when ED Discharge Disposition= 4,6,9,10, or 11.  Field must be Not Applicable when ED Discharge Disposition= 5 (Died). | The time the order was written for the patient to be discharged from the hospital.  Used to auto-generate an additional calculated field: Total Length of Hospital Stay(elapsed time from ED/hospital arrival to hospital discharge).  The null value "Not Applicable" is used If ED Discharge Disposition = 5 (Deceased/expired).  The null value "Not Applicable" is used If ED Discharge Disposition = 4,6,9,10, or 11.  If Hospital Discharge Disposition is 5 Deceased/Expired, then Hospital Discharge Time is the time of death as indicated on the patient’s death certificate. | B |
| 81 | Hospital Discharge Disposition | X | X | Yes | HospitalDischargeDisposition | Xs:integer | No | R | Must be coded as:  1. Discharged/Transferred to a short-term general hospital for inpatient care  2. Discharged/Transferred to an Intermediate Care Facility (ICF)  3. Discharge/Transferred to home under care of organized home health service  4. Left against medical advice or discontinued care  5. Deceased/expired  6. Discharged to home or self-care (routine  discharge)  7. Discharged/Transferred to Skilled Nursing Facility (SNF)  8. Discharged/ Transferred to hospice care  10. Discharged/Transferred to court/law enforcement.  11. Discharged/Transferred to inpatient rehab or designated unit  12. Discharged/Transferred to Long Term Care Hospital (LTCH)  13. Discharged/Transferred to a psychiatric hospital  or psychiatric distinct part unit of a hospital  14. Discharged/Transferred to another type of institution not defined elsewhere  99. Not Applicable  Field must be Not Applicable when ED Discharge Disposition= 5 (Died).  Field must be Not Applicable when ED Discharge Disposition= 4,6,9,10, or 11.  Field cannot be Not Applicable.  Field cannot be Not Known/Not Recorded when Hospital Arrival Date and Hospital Discharge Date are not:(1)blank, (2) Not Applicable, or (3) Not Known/Not Recorded. | The disposition of the patient when discharged from the hospital.  Field value = 6,"home" refers to the patient's current place of residence (e.g., prison, Child Protective Services etc.)  Field values based upon UB-04 disposition coding.  Disposition to any other non-medical facility should be coded as 6.  Disposition to any other medical facility should be coded as 14.  The null value "Not Applicable" is usedIf ED Discharge Disposition = 5 (Deceased/expired).  The null value "Not Applicable" is usedIf ED Discharge Disposition = 4,6,9,10, or 11. | B |
| 82 | Primary Method of Payment | X | X | Yes | PrimaryMethodofPayment | Xs:integer | No | R | Must be coded as:  1. Medicaid  2. Not Billed (for any reason)  3. Self-Pay  4. Private/Commercial Insurance  6. Medicare  7. Other Government  10. Other  99. Unknown  Field cannot be Not Applicable. | Primary source of payment for hospital care.  No Fault Automobile, Workers Compensation, and Blue Cross/BlueShield should be captured as Private/Commercial Insurance. | B |
| 83 | Race1 | X | X | Yes | Race1 | Xs:integer | No | R | Must be coded as:  1. Asian  2. Native Hawaiian or Other Pacific Islander  3. Other Race  4. American Indian  5. Black or African American  6. White  9. Unknown/Not Applicable  Field must be Not Applicable (non-US)  Field cannot be Not Applicable (US only) | The patient's race.  Patient race should be based upon self-report or identified by a family member. | B |
| 84 | Race2 | X | X | Yes | Race2 | Xs:integer | No | R | Must be coded as:  1. Asian  2. Native Hawaiian or Other Pacific Islander  3. Other Race  4. American Indian  5. Black or African American  6. White  9. Unknown/Not Applicable  Field must be Not Applicable (non-US)  Field cannot be Not Applicable (US only) | The patient's race.  Patient race should be based upon self-report or identified by a family member. | B |
| 85 | OtherTransportMode | X |  | Yes | OtherTransportMode | Xs:integer | Yes Max 5 | C | When present must be coded as:  1. Ground Ambulance  2. Helicopter Ambulance  3. Fixed-wing Ambulance  4. Private/Public Vehicle/Walk-in  5. Police  6. Other  9. Unknown | All other modes of transport used during patient care event (prior to arrival at your hospital),except the mode delivering the patient to the hospital.  Include in "Other" unspecified modes of transport. | B |
| 86 | Injury Diagnosis | X | X | Yes | InjuryDiagnoses | Xs:string | Yes max 50. | R | Must be a valid value (ICD-10 CM only). | Diagnoses related to all identified injuries.  IInjury diagnoses as defined by ICD-10-CM code range S00-S99, T07, T14, T20-T28, T30-T32, T79.A1 – T79.A19, T79.A2 - T79.A29, T75.1 and T71.  At least one code needs to meet the inclusion criteria as primary or principle code. The primary or principle code must be located in the first diagnostic data field for the record to be included in the submission.  ICD-10-CM codes pertaining to other medical conditions (e.g., CVA, MI, co-morbidities, etc.) may also be included in this field. These codes reside in the diagnostic data fields after the first diagnostic data field. If the other medical conditions are coded in the first diagnostic data field, the record will cause a submission error.  Used to auto-generate additional calculated fields: Abbreviated Injury Scale (six body regions) and Injury Severity Score.  Must be valid up to 7 digit ICD-10-CM code (exclude decimal point). | A |
| 87 | AIS | X |  | No | AIS | Xs:String | Yes | R | Must be present.  Must be a valid AIS code.  Must consist of 6 numbers followed by a decimal point followed by 1 number.  The number following the decimal point must be coded as:  1. Minor Injury  2. Moderate Injury  3. Serious Injury  4. Severe Injury  5. Critical Injury  6. Maximum Injury, Virtually Un survivable  9. Not Possible to Assign  If predot and/or severity are not able to be coded then enter ‘999999.9’ | The Abbreviated Injury Scale (AIS) Pre Dot codes that reflect the patient's injuries.  The pre dot code is the 6 digits preceding the decimal point in an associated AIS code.  The severity code is the value after the decimal. The Abbreviated Injury Scale (AIS) severity codes that reflect the patient's injuries.  The field value (9)"Not Possible to Assign" would be chosen if it is not possible to assign a severity to an injury.  Cannot be Not Applicable. | W |
| 88 | AIS Version | X |  | No | AISVersion | Xs:integer | Yes | R | Must be present.  Must be 08. To represent AIS05. | The software (and version) used to calculate Abbreviated Injury Scale (AIS) severity codes.  Cannot be Not Applicable. | W |
| 89 | ICD-9-CM Diagnosis Code | X | X | Yes | ICD9CMDiagnosisCode | Xs:String | Yes | R | Must be present.  Must be valid ICD-9-CM code. (exclude decimal point). | Patient Diagnosis Code | A |
| 90 | Protective Devices | X |  | Yes | ProtectiveDevices | Xs:integer | Yes unlimited. | R | Must be present.  Must be numeric.  Must be coded as:  1. None  2. Lap Belt  3. Personal Floatation Device  4. Protective Non-Clothing Gear (e.g., shin guard)  5. Eye Protection  6. Child Restraint (booster seat or child car seat)  7. Helmet (e.g., bicycle, skiing, motorcycle)  8. Airbag Present  9. Protective Clothing (e.g., padded leather pants)  10.Shoulder  Belt  11. Other  88. Not Recorded  99. Unknown  Protective Device should be 6 (Child Restraint) when Child Specific Restraint is not: (1) blank, (2)Not Applicable, or (3) Not Known/Not Recorded.  Protective Device should be 8 (Airbag Present) when Airbag Deployment is not:(1) blank, (2)Not Applicable, or (3) Not Known/Not Recorded. | Protective devices (safety equipment) in use or worn by the patient at the time of the injury.  If" Child Restraint" is present, complete variable "Child Specific Restraint."  If" Airbag" is present, complete variable" Airbag Deployment."  Evidence of the use of safety equipment may be reported or observed.  Lap Belt should be used to include those patients that are restrained,but not further specified.  If chart indicates "3-point-restraint",choose 2. Lap Belt and 10. Shoulder Belt. | W |
| 91 | Child Specific restraint | X |  | Yes | ChildSpecificRestraint | Xs:integer | Yes | C | Must be present if Protective Devices = 6 (Child Restraint).  Must be coded as:  1. Child Car Seat  2. Infant Car Seat  3. Child Booster Seat | Protective child restraint device used by patient at the time of injury.  Evidence of the use of child restraint maybe reported or observed.  Only completed when Protective Devices include "Child Restraint."  Or if Protective Devices = 6 (Child Restraint) in one field.  Field cannot be Not Applicable when Protective Device is 6 (Child Restraint) | A |
| 92 | Airbag Deployment | X |  | Yes | AirbagDeployment | Xs:integer | Yes | C | Must be present if Protective Devices = 8 (Airbag).  Must be coded as:  1. Airbag Not Deployed  2. Airbag Deployed Front  3. Airbag Deployed Side  4. Airbag Deployed Other (knee, air belt, curtain,  etc.)  8. Not Applicable  9. Unknown | Evidence of the use of airbag deployment maybe reported or observed.  Only completed when Protective Devices include "Airbag." Or if Protective Devices = 8 (Airbag) in one field.  Airbag Deployed Front should be used for patients with documented airbag deployments, but are not further specified.  The null value code for "Not Applicable" is used if NO "Airbag" is reported under Protective Devices.  Field cannot be "Not Applicable" when Protective Device is 8 Airbag Present. | A |
| 93 | Co-Morbid Condition | X |  | Yes | ComorbidConditions | Xs:integer | Yes Max 5 | R | Must be present.  Must be coded as:  0. Not Applicable  1. Other  2. Alcohol Use Disorder  3. RETIRED 2015 Ascites Within 30 Days  4. Bleeding Disorder  5. Currently Receiving Chemotherapy for Cancer  6. Congenital Anomalies  7. Congestive Heart Failure  8. Current Smoker  9. Chronic Renal Failure  10. Cerebrovascular Accident (CVA)  11. Diabetes Mellitus  12. Disseminated Cancer  13. Advanced Directive Limiting Care  14. RETIRED 2015 Esophageal Varices  15. Functionally Dependent Health Status  16. RETIRED 2017 History of Angina Within 30  days  17. RETIRED 2017 History of Myocardial Infarction  18. RETIRED 2017 History of Peripheral Vascular  Disease (PVD)  19. Hypertension  21. Prematurity  22. RETIRED 2015 Obesity  23. Chronic Obstructive Pulmonary Disease (COPD)  24. Steroid Use  25. Cirrhosis  26. Dementia  27. RETIRED 2017 Major Psychiatric Illness  28. RETIRED 2017 Drug Use Disorder  29. RETIRED 2015 Pre-Hospital Cardiac Arrest with  Resuscitative Efforts by Healthcare Provider  30. Attention Deficit Disorder/Attention Deficit  Hyperactivity Disorder (ADD/ADHD)  31. Anticoagulant Therapy  32. Angina Pectoris  33. Mental/Personality Disorder  34. Myocardial Infarction (MI)  35. Peripheral Arterial Disease (PAD)  36. Substance Abuse Disorder | Pre-existing co-morbid factors present before patient arrival at the ED/hospital.  The value of 0 "Not Applicable" is used for patients with no known co-morbid conditions. | W |
| 94 | Complication | X |  | Yes | HospitalComplication | Xs:integer | Yes Max 10 | R | Must be present if Record Type 50 is present.  Must be coded as:  0. Not Applicable  1. Other  4. Acute kidney injury  5. Acute respiratory distress syndrome (ARDS)  8. Cardiac arrest with CPR  11. RETIRED Decubitusulcer  12. Deep surgical site infection  13. RETIRED Drug or alcohol withdrawal syndrome  14. Deep vein thrombosis(DVT)  15. Extremity compartment syndrome  16. RETIRED Graft/Prosthesis/Flap Failure  18. Myocardial infarction  19. Organ/space surgical site infection  20. RETIRED Pneumonia  21. Pulmonary embolism  22. Stroke / CVA  23. RETIRED Superficial surgical site infection  25. Unplanned intubation  27. RETIRED Urinary Tract Infection  28. RETIRED Catheter Related Blood Stream Infection  29. Osteomyelitis  30. Unplanned return to the OR  31. Unplanned admission to the ICU  32. Severe sepsis  33. Catheter-associated urinary tract infection (CAUTI)  34. Central line-associated bloodstream infection (CLABSI)  35. Ventilator-associated pneumonia (VAP)  36. Alcohol Withdrawal Symptom  37. Pressure Ulcer  38. Superficial Incisional Surgical Site Infection | Any medical complication that occurred during the patient's stay at your hospital.  The value of 0 for "Not Applicable" should be used for patients with no complications.  For any Hospital Complication to be valid, there must be a diagnosis noted in the patient medical record that meets the definition noted in Appendix 3:Glossary of Terms.  For all Hospital Complications that follow the CDC definition [e.g., VAP,CAUTI, CLABSI, Osteomyelitis] always use the most recent definition provided by the CDC. | W |
| 95 | ICD10 Hospital Procedure Code | X |  | Yes | ICD10HospitalProcedureCode | Xs:string | Yes Max 200. | R | Must be present if Record Type 60 is present.  Must be a valid value (ICD-10 CM only).  Procedures with the same code cannot have the same Hospital Procedure Start Date and Time. | See National Trauma Data Standard Data Dictionary 2017 (or 2018) Admissions for the list of procedures and description for entry. | W |
| 96 | Hospital Procedures Start Date | X |  | No | HospitalProcedureStartDate | Xs:date | Yes | R | Must be a valid date format (CCYYMMDD).  Hospital Procedure Start Date cannot be earlier than EMS Dispatch Date.  Hospital Procedure Start Date cannot be earlier than EMS Unit Arrival on Scene Date.  Hospital Procedure Start Date cannot be earlier than EMS Unit Scene Departure Date.  Hospital Procedure Start Date cannot be earlier than ED/Hospital Arrival Date.  Hospital Procedure Start Date cannot be later than Hospital Discharge Date.  Hospital Procedure Start Date cannot be earlier than Date of Birth. | The date operative and selected non-operative procedures were performed. | W |
| 97 | Hospital Procedures Start Time | X |  |  | HospitalProcedureStartTime | Xs:time | Yes | R | Collected as HH:MM military time between  00:00 to 23:59.  Hospital Procedure Start Time cannot be earlier than EMS Dispatch Time.  Hospital Procedure Start Time cannot be earlier than EMS Unit Arrival on Scene Time.  Hospital Procedure Start Time cannot be earlier than EMS Unit Scene Departure Time.  Hospital Procedure Start Time cannot be earlier than ED/Hospital Arrival Time.  Hospital Procedure Start Time cannot be later than Hospital Discharge Time. | The time operative and selected non-operative procedures were performed.  Procedure start time is defined as the time the incision was made(or the procedure started).  If distinct procedures with the same procedure code are performed, their start times must be different. | W |
| 98 | Additional ICD10 External Cause Code | X |  | Yes | AdditionalICD10ExternalCauseCode | Xs:string | Yes Max 50. | R | E-Code is not a valid ICD-10-CM code (ICD-10CM only).  Additional External Cause Code ICD-10 should not be equal to Primary External Cause Code ICD-10.  E-Code is not a valid ICD-10-CAcode (ICD-10 CA only). V00-Y38, Y62-Y84, Y90-Y99, Z00-Z99 | Should not be the same as the Primary External Cause Code.  Relevant ICD-10-CM code value for injury event.  External cause codes are used to auto-generate two calculated fields: Trauma Type: (Blunt, Penetrating, Burn) and Intentionality(based upon CDC matrix).  Only ICD-10-CM codes will be accepted for ICD-10 Additional External Cause Code.  Activity codes should not be reported in this field.  Must be a valid ICD-10-CM Ecode 3 to 7 digits/characters long (exclude decimal point) V00-Y38, Y62-Y84, Y90-Y99, Z00-Z99 | W |

## Trauma Data Code Tables

|  |  |  |
| --- | --- | --- |
| **Table 1. DPH and CHIA Organization IDs for Hospitals** | | |
| **DPHOrg ID** | **CHIAOrgID** | **Organization Name** |
| 2006 | 1 | Anna Jaques Hospital |
| 2226 | 2 | Athol Memorial Hospital |
| 2120 | 5 | Baystate Franklin Medical Center |
| 2148 | 6 | Baystate Mary Lane Hospital |
| 2339 | 4 | Baystate Medical Center |
| 2181 | 139 | Baystate Wing Memorial Hospital |
| 2313 | 7 | Berkshire Medical Center ~~-~~ 725 North Street |
| 2227 | 98 | Beth Israel Deaconess Hospital - Milton |
| 2054 | 53 | Beth Israel Deaconess Hospital - Needham |
| 2082 | 79 | Beth Israel Deaconess Hospital - Plymouth |
| 2069 | 10 | Beth Israel Deaconess Medical Center - East Campus |
| 2092 | 140 | Beth Israel Deaconess Medical Center - West Campus |
| 2016 | 109 | Beverly Hospital - Addison Gilbert Campus |
| 2007 | 110 | Beverly Hospital - Lahey Health |
| 2139 | 46 | Boston Children's Hospital |
| 2084 | 144 | Boston Medical Center - East Newton Campus |
| 2307 | 16 | Boston Medical Center - Menino Pavilion |
| 2048 | 59 | Brigham and Women'sFaulkner Hospital |
| 2341 | 22 | Brigham and Women's Hospital |
| 2108 | 27 | Cambridge Health Alliance - Cambridge Campus |
| 2001 | 143 | Cambridge Health Alliance - Somerville Campus |
| 2046 | 142 | Cambridge Health Alliance - Whidden Memorial Campus |
| 2135 | 39 | Cape Cod Hospital |
| 2003 | 42 | Carney Hospital - Steward Health Care Network |
| 2126 | 132 | Clinton Hospital |
| 2155 | 50 | Cooley Dickinson Hospital |
| 2335 | 51 | Dana-Farber Cancer Institute |
| 2018 | 57 | Emerson Hospital |
| 2052 | 8 | Fairview Hospital |
| 2289 | 40 | Falmouth Hospital |
| 2311 | 62 | Good Samaritan Medical Center - Steward Health Care Network |
| 2038 | 66 | Hallmark Health System - Lawrence Memorial Hospital |
| 2058 | 141 | Hallmark Health System - Melrose-Wakefield Hospital |
| 2143 | 68 | Harrington Hospital |
| 2036 | 73 | Heywood Hospital |
| 2225 | 75 | Holy Family Hospital - Steward Health Care Network |
| 2131 | 11466 | Holy Family Hospital at Merrimack Valley - Steward Health Care Network (old number 70) |
| 2145 | 77 | Holyoke Medical Center |
| 2091 | 136 | Kindred Hospital Boston |
| 2171 | 135 | Kindred Hospital Boston North Shore |
| 2342 | 81 | Lahey Hospital & Medical Center - Burlington |
| 2161 | 4448 | Lahey Medical Center North Shore/Peabody |
| 2099 | 83 | Lawrence General Hospital |
| 2040 | 85 | Lowell General Hospital |
| 2029 | 115 | Lowell General Hospital - Saints Campus |
| 2103 | 133 | Marlborough Hospital |
| 2042 | 88 | Martha's Vineyard Hospital |
| 2167 | 89 | Massachusetts Eye and Ear Infirmary |
| 2168 | 91 | Massachusetts General Hospital |
| 2149 | 119 | Mercy Medical Center - Springfield Campus |
| 2020 | 49 | MetroWest Medical Center - Framingham Union Campus\* |
| 2039 | 457 | MetroWest Medical Center - Leonard Morse/Natick\* |
| 2105 | 97 | Milford Regional Medical Center |
| 2022 | 99 | Morton Hospital - Steward Health Care Network |
| 2071 | 100 | Mount Auburn Hospital |
| 2044 | 101 | Nantucket Cottage Hospital |
| 2298 | 11467 | Nashoba Valley Medical Center - Steward Health Care Network (old number 52) |
| 2059 | 103 | New England Baptist Hospital |
| 2075 | 105 | Newton-Wellesley Hospital |
| 2076 | 106 | Baystate Noble Hospital |
| 2014 | 116 | North Shore Medical Center - Salem Campus |
| 2008 | 3 | North Shore Medical Center - Union Campus |
| 2114 | 41 | Norwood Hospital - Steward Health Care Network |
| 2011 | 114 | Saint Anne's Hospital - Steward Health Care Network |
| 2128 | 127 | Saint Vincent Hospital |
| 2118 | 25 | Signature Healthcare Brockton Hospital |
| 2107 | 122 | South Shore Hospital |
| 2337 | 123 | Southcoast Hospitals Group - Charlton Memorial Campus |
| 2010 | 124 | Southcoast Hospitals Group - St. Luke's Campus |
| 2106 | 145 | Southcoast Hospitals Group - Tobey Hospital Campus |
| 2085 | 126 | St. Elizabeth's Medical Center - Steward Health Care Network |
| 2100 | 129 | Sturdy Memorial Hospital |
| 2299 | 104 | Tufts Medical Center and Floating Hospital for Children (Pediatric Trauma) |
| 2299 | 10177 | Tufts Medical Center (Adult Trauma) |
| 2127 | 8548 | Umass Memorial Health Alliance Hospital - Burbank Campus |
| 2127 | 71 | Umass Memorial Health Alliance Hospital - Leominister Campus |
| 2124 | 130 | UMass Memorial Medical Center - Memorial Campus |
| 2841 | 131 | UMass Memorial Medical Center - University Campus |
| 2094 | 138 | Winchester Hospital |

Note: \*# 457 MetroWest Medical Center – Leonard Morse / Natick records have been collected and sent under # 49 MetroWest Medical Center – Framingham Union Campus since the start of the trauma registry beginning with 2008 Q3. The filing org ID (provider filing the submission) and site org ID (provider of care for the trauma) is # 49 for both hospitals.

|  |  |
| --- | --- |
| **Table 2. Postal State Codes** | |
| **Valid Entries** | **Definition** |
|  |  |
| AL | Alabama |
| AK | Alaska |
| AZ | Arizona |
| AR | Arkansas |
| CA | California |
| CO | Colorado |
| CT | Connecticut |
| DE | Delaware |
| DC | District of Columbia |
| FL | Florida |
| GA | Georgia |
| HI | Hawaii |
| ID | Idaho |
| IL | Illinois |
| IN | Indiana |
| IA | Iowa |
| KS | Kansas |
| KY | Kentucky |
| LA | Louisiana |
| ME | Maine |
| MD | Maryland |
| MA | Massachusetts |
| MI | Michigan |
| MN | Minnesota |
| MS | Mississippi |
| MO | Missouri |
| MT | Montana |
| NE | Nebraska |
| NV | Nevada |
| NH | New Hampshire |
| NJ | New Jersey |
| NM | New Mexico |
| NY | New York |
| NC | North Carolina |
| ND | North Dakota |
| OH | Ohio |
| OK | Oklahoma |
| OR | Oregon |
| PA | Pennsylvania |
| RI | Rhode Island |
| SC | South Carolina |
| SD | South Dakota |
| TN | Tennessee |
| TX | Texas |
| UT | Utah |
| VT | Vermont |
| VA | Virginia |
| WA | Washington |
| WV | West Virginia |
| WI | Wisconsin |
| WY | Wyoming |

|  |  |
| --- | --- |
| **Table 3. Level of Service** | |
| **Valid Entries** | **Definition** |
| 1 | Outpatient Emergency Department Stay |
| 2 | Outpatient Observation Stay |
| 3 | Inpatient Stay |
| 4 | Death on Arrival |

## 

## Massachusetts Trauma .XSD

Please note that we are not strictly validating against the .XSD, it is for reference purposes only. Since we accept data in both XML and fixed length, the majority of data validation happens after the data is loaded from the XML file into the data base environment.

**Note:** When writing up the XML element tags, the coding should not include "biu=" . For example, HomeCity should be coded as <HomeCity>76678</HomeCity> rather than something like <HomeCity biu=’76678’/>.

<?xmlversion="1.0"encoding="UTF-8"?>

<xs:schemaxmlns:xs="http://www.w3.org/2001/XMLSchema"elementFormDefault="qualified"attributeFormDefault="unqualified">

<xs:elementname="MDPHTraumaRecords">

<xs:annotation>

<xs:documentation>Root Tag</xs:documentation>

</xs:annotation>

<xs:complexType>

<xs:sequence>

<xs:elementname="MDPHTraumaRecord"minOccurs="1"maxOccurs="unbounded">

<xs:complexType>

<xs:all>

<xs:elementname="PatientId">

<xs:annotation>

<xs:documentation>Patient's Social Security Number.</xs:documentation>

</xs:annotation>

<xs:simpleType>

<xs:restrictionbase="xs:string" />

</xs:simpleType>

</xs:element>

<xs:elementname="FacilityId">

<xs:annotation>

<xs:documentation>The CHIA Filing OrgID</xs:documentation>

</xs:annotation>

<xs:simpleType>

<xs:restrictionbase="xs:string" />

</xs:simpleType>

</xs:element>

<xs:elementname="FacilitySiteId">

<xs:annotation>

<xs:documentation>The CHIA Facility Site Org ID</xs:documentation>

</xs:annotation>

<xs:simpleType>

<xs:restrictionbase="xs:string" />

</xs:simpleType>

</xs:element>

<xs:elementname="InterFacilityTransfer">

<xs:annotation>

<xs:documentation>Determination if the patient was transferred from another acute care facility.</xs:documentation>

</xs:annotation>

<xs:complexType>

<xs:simpleContent>

<xs:extensionbase="InterFacilityTransfer">

<xs:attributeref="biu" />

</xs:extension>

</xs:simpleContent>

</xs:complexType>

</xs:element>

<xs:elementname="FacilitySiteIdOfTransferringHospital">

<xs:annotation>

<xs:documentation>Facility Site ID of Transferring Hospital</xs:documentation>

</xs:annotation>

<xs:simpleType>

<xs:restrictionbase="xs:string" />

</xs:simpleType>

</xs:element>

<xs:elementname="DPHFacilityIDNumber">

<xs:annotation>

<xs:documentation>A number assigned by the Department of Public Health to identify the facility.</xs:documentation>

</xs:annotation>

<xs:simpleType>

<xs:restrictionbase="xs:string" />

</xs:simpleType>

</xs:element>

<xs:elementname="DepartureTimeSceneOrTransferring">

<xs:annotation>

<xs:documentation>Time the patient left the originating hospital if a transfer patient.</xs:documentation>

</xs:annotation>

<xs:complexType>

<xs:simpleContent>

<xs:extensionbase="Time">

<xs:attributeref="biu"/>

</xs:extension>

</xs:simpleContent>

</xs:complexType>

</xs:element>

<xs:elementname="HospitalArrivalDate">

<xs:annotation>

<xs:documentation>The date and time the patient arrived to the ED/hospital.</xs:documentation>

</xs:annotation>

<xs:complexType>

<xs:simpleContent>

<xs:extensionbase="HospitalArrivalDate">

<xs:attributeref="biu" />

</xs:extension>

</xs:simpleContent>

</xs:complexType>

</xs:element>

<xs:elementname="HospitalArrivalTime">

<xs:annotation>

<xs:documentation>The date and time the patient arrived to the ED/hospital.</xs:documentation>

</xs:annotation>

<xs:complexType>

<xs:simpleContent>

<xs:extensionbase="HospitalArrivalTime">

<xs:attributeref="biu" />

</xs:extension>

</xs:simpleContent>

</xs:complexType>

</xs:element>

<xs:elementname="EDDischargeDate">

<xs:annotation>

<xs:documentation>The date and time the patient arrived to the ED/hospital.</xs:documentation>

</xs:annotation>

<xs:complexType>

<xs:simpleContent>

<xs:extensionbase="EDDischargeDate">

<xs:attributeref="biu" />

</xs:extension>

</xs:simpleContent>

</xs:complexType>

</xs:element>

<xs:elementname="EDDischargeTime">

<xs:annotation>

<xs:documentation>The date and time the patient arrived to the ED/hospital.</xs:documentation>

</xs:annotation>

<xs:complexType>

<xs:simpleContent>

<xs:extensionbase="EDDischargeTime">

<xs:attributeref="biu" />

</xs:extension>

</xs:simpleContent>

</xs:complexType>

</xs:element>

<xs:elementname="MedicalRecordNumber">

<xs:annotation>

<xs:documentation>Patient’s hospital Medical Record Number.</xs:documentation>

</xs:annotation>

<xs:simpleType>

<xs:restrictionbase="xs:string" />

</xs:simpleType>

</xs:element>

<xs:elementname="DateOfBirth">

<xs:annotation>

<xs:documentation>The patient's date of birth.</xs:documentation>

</xs:annotation>

<xs:complexType>

<xs:simpleContent>

<xs:extensionbase="DateOfBirth">

<xs:attributeref="biu" />

</xs:extension>

</xs:simpleContent>

</xs:complexType>

</xs:element>

<xs:elementname="Sex">

<xs:annotation>

<xs:documentation>The patient's sex.</xs:documentation>

</xs:annotation>

<xs:complexType>

<xs:simpleContent>

<xs:extensionbase="Sex">

<xs:attributeref="biu" />

</xs:extension>

</xs:simpleContent>

</xs:complexType>

</xs:element>

<xs:elementname="PatientStreetAddress">

<xs:annotation>

<xs:documentation>Patient’s Street Address.</xs:documentation>

</xs:annotation>

<xs:simpleType>

<xs:restrictionbase="xs:string" />

</xs:simpleType>

</xs:element>

<xs:elementname="HomeCity">

<xs:annotation>

<xs:documentation>The patient's home city (or township, village) of residence.</xs:documentation>

</xs:annotation>

<xs:complexType>

<xs:simpleContent>

<xs:extensionbase="HomeCity">

<xs:attributeref="biu" />

</xs:extension>

</xs:simpleContent>

</xs:complexType>

</xs:element>

<xs:elementname="HomeZip">

<xs:annotation>

<xs:documentation>The patient's home ZIP code of residence</xs:documentation>

</xs:annotation>

<xs:complexType>

<xs:simpleContent>

<xs:extensionbase="Zip">

<xs:attributeref="biu" />

</xs:extension>

</xs:simpleContent>

</xs:complexType>

</xs:element>

<xs:elementname="PatientHomeCountry">

<xs:annotation>

<xs:documentation>The country where the patient resides.</xs:documentation>

</xs:annotation>

<xs:simpleType>

<xs:restrictionbase="xs:string" />

</xs:simpleType>

</xs:element>

<xs:elementname="PatientHomeCounty">

<xs:annotation>

<xs:documentation>The patient's county(or parish) of residence.</xs:documentation>

</xs:annotation>

<xs:simpleType>

<xs:restrictionbase="xs:integer" />

</xs:simpleType>

</xs:element>

<xs:elementname="AlternateHomeResidence">

<xs:annotation>

<xs:documentation>Documentation of the type of patient without a homeZIP/Postal code.</xs:documentation>

</xs:annotation>

<xs:simpleType>

<xs:restrictionbase="xs:string" />

</xs:simpleType>

</xs:element>

<xs:elementname="Age">

<xs:annotation>

<xs:documentation>The patient'sage atthe time of injury (best approximation).</xs:documentation>

</xs:annotation>

<xs:simpleType>

<xs:restrictionbase="xs:integer" />

</xs:simpleType>

</xs:element>

<xs:elementname="AgeUnits">

<xs:annotation>

<xs:documentation>The units used to document the patient's age (Minutes,Hours, Days,Months, Years).</xs:documentation>

</xs:annotation>

<xs:simpleType>

<xs:restrictionbase="xs:integer" />

</xs:simpleType>

</xs:element>

<xs:elementname="Ethnicity">

<xs:annotation>

<xs:documentation>The patient'sethnicity.</xs:documentation>

</xs:annotation>

<xs:simpleType>

<xs:restrictionbase="xs:integer" />

</xs:simpleType>

</xs:element>

<xs:elementname="PatientOccupationalIndustry">

<xs:annotation>

<xs:documentation>The occupational industryassociated with the patient's work environment.</xs:documentation>

</xs:annotation>

<xs:simpleType>

<xs:restrictionbase="xs:integer" />

</xs:simpleType>

</xs:element>

<xs:elementname="PatientOccupation">

<xs:annotation>

<xs:documentation>The occupation of the patient.</xs:documentation>

</xs:annotation>

<xs:simpleType>

<xs:restrictionbase="xs:integer" />

</xs:simpleType>

</xs:element>

<xs:elementname="ICD10PrimaryExternalCauseCode">

<xs:annotation>

<xs:documentation>The primary external cause code should describe the main reason a patient is admitted to the hospital.</xs:documentation>

</xs:annotation>

<xs:simpleType>

<xs:restrictionbase="xs:string" />

</xs:simpleType>

</xs:element>

<xs:elementname="ICD10PlaceofOccurrenceExternalCauseCode">

<xs:annotation>

<xs:documentation>Place of occurrence external cause code used to describe the place/site/locationof the injury event (Y92.x).</xs:documentation>

</xs:annotation>

<xs:simpleType>

<xs:restrictionbase="xs:string" />

</xs:simpleType>

</xs:element>

<xs:elementname="IncidentLocationPostalCode">

<xs:annotation>

<xs:documentation>The ZIP/Postal code of the incidentlocation.</xs:documentation>

</xs:annotation>

<xs:simpleType>

<xs:restrictionbase="xs:string" />

</xs:simpleType>

</xs:element>

<xs:elementname="IncidentCountry">

<xs:annotation>

<xs:documentation>The country where the patient was found or to whichthe unit responded (or bestapproximation).</xs:documentation>

</xs:annotation>

<xs:simpleType>

<xs:restrictionbase="xs:string" />

</xs:simpleType>

</xs:element>

<xs:elementname="IncidentCounty">

<xs:annotation>

<xs:documentation>The county or parish where the patient was found or towhich the unitresponded (or bestapproximation).</xs:documentation>

</xs:annotation>

<xs:simpleType>

<xs:restrictionbase="xs:string" />

</xs:simpleType>

</xs:element>

<xs:elementname="ReportofPhysicalAbuse">

<xs:annotation>

<xs:documentation>A report of suspected physical abuse was made to law enforcement and/or protective services.</xs:documentation>

</xs:annotation>

<xs:simpleType>

<xs:restrictionbase="xs:integer" />

</xs:simpleType>

</xs:element>

<xs:elementname="InvestigationofPhysicalAbuse">

<xs:annotation>

<xs:documentation>An investigation by law enforcementand/or protective services wasinitiated because of the suspected physical abuse.</xs:documentation>

</xs:annotation>

<xs:simpleType>

<xs:restrictionbase="xs:integer" />

</xs:simpleType>

</xs:element>

<xs:elementname="CaregiveratDischarge">

<xs:annotation>

<xs:documentation>The patient was discharged to a caregiver different than the caregiver at admission due to suspected physical abuse.</xs:documentation>

</xs:annotation>

<xs:simpleType>

<xs:restrictionbase="xs:integer" />

</xs:simpleType>

</xs:element>

<xs:elementname="EMSDispatchDate">

<xs:annotation>

<xs:documentation>The date the unit transporting to your hospital was notified by dispatch.</xs:documentation>

</xs:annotation>

</xs:element>

<xs:elementname="EMSDispatchTime">

<xs:annotation>

<xs:documentation>The time the unit transporting to your hospital was notified by dispatch.</xs:documentation>

</xs:annotation>

</xs:element>

<xs:elementname="EMSUnitArrivalDateatSceneorTransferringFacility">

<xs:annotation>

<xs:documentation>The date the unit transporting to your hospital arrived on the scene/transferring facility.</xs:documentation>

</xs:annotation>

</xs:element>

<xs:elementname="EMSUnitArrivalTimeatSceneorTransferringFacility">

<xs:annotation>

<xs:documentation>The time the unit transporting to your hospital arrived on the scene.</xs:documentation>

</xs:annotation>

</xs:element>

<xs:elementname="EMSUnitDepartureDatefromSceneorTransferringFacility">

<xs:annotation>

<xs:documentation>The date the unit transporting to your hospital left the scene.</xs:documentation>

</xs:annotation>

</xs:element>

<xs:elementname="EMSUnitDepartureTimefromSceneorTransferringFacility">

<xs:annotation>

<xs:documentation>The time the unit transporting to your hospital leftthe scene.</xs:documentation>

</xs:annotation>

</xs:element>

<xs:elementname="InitialFieldsystolicbloodpressure">

<xs:annotation>

<xs:documentation>First recorded systolic blood pressure measured at the scene of injury.</xs:documentation>

</xs:annotation>

<xs:simpleType>

<xs:restrictionbase="xs:integer" />

</xs:simpleType>

</xs:element>

<xs:elementname="InitialFieldPulseRate">

<xs:annotation>

<xs:documentation>First recorded pulse measured at thescene of injury (palpated or auscultated), expressed as a number perminute.</xs:documentation>

</xs:annotation>

<xs:simpleType>

<xs:restrictionbase="xs:integer" />

</xs:simpleType>

</xs:element>

<xs:elementname="InitialFieldRespiratoryRate">

<xs:annotation>

<xs:documentation>First recorded respiratory rate measured at the scene ofinjury (expressed as a number per minute).</xs:documentation>

</xs:annotation>

<xs:simpleType>

<xs:restrictionbase="xs:integer" />

</xs:simpleType>

</xs:element>

<xs:elementname="InitialFieldOxygenSaturation">

<xs:annotation>

<xs:documentation>First recorded oxygen saturation measured atthe scene of injury (expressed as a percentage).</xs:documentation>

</xs:annotation>

<xs:simpleType>

<xs:restrictionbase="xs:integer" />

</xs:simpleType>

</xs:element>

<xs:elementname="InitialFieldGCSEYE">

<xs:annotation>

<xs:documentation>First recorded Glasgow Coma Score (Eye) measuredat the scene of injury.</xs:documentation>

</xs:annotation>

<xs:simpleType>

<xs:restrictionbase="xs:integer" />

</xs:simpleType>

</xs:element>

<xs:elementname="InitialFieldGCSVerbal">

<xs:annotation>

<xs:documentation>First recorded Glasgow Coma Score (Verbal) measured at the scene of injury.</xs:documentation>

</xs:annotation>

<xs:simpleType>

<xs:restrictionbase="xs:integer" />

</xs:simpleType>

</xs:element>

<xs:elementname="InitialFieldGCSMotor">

<xs:annotation>

<xs:documentation>First recorded Glasgow Coma Score (Motor) measured at thescene of injury.</xs:documentation>

</xs:annotation>

<xs:simpleType>

<xs:restrictionbase="xs:integer" />

</xs:simpleType>

</xs:element>

<xs:elementname="InitialFieldGCSTotal">

<xs:annotation>

<xs:documentation>First recorded Glasgow Coma Score (total) measured at the scene of injury.</xs:documentation>

</xs:annotation>

<xs:simpleType>

<xs:restrictionbase="xs:integer" />

</xs:simpleType>

</xs:element>

<xs:elementname="Traumacentercriteria">

<xs:annotation>

<xs:documentation>Physiologic and anatomic EMS trauma triage criteria for transport to a trauma center.</xs:documentation>

</xs:annotation>

<xs:simpleType>

<xs:restrictionbase="xs:string" />

</xs:simpleType>

</xs:element>

<xs:elementname="Vehicularpedestrianotherriskinjury">

<xs:annotation>

<xs:documentation>EMS trauma triage mechanism of injury criteria for transport to a trauma center.</xs:documentation>

</xs:annotation>

<xs:simpleType>

<xs:restrictionbase="xs:integer" />

</xs:simpleType>

</xs:element>

<xs:elementname="Prehospitalcardiacarrest">

<xs:annotation>

<xs:documentation>Indication of whether patient experienced cardiac arrest prior to ED/Hospital arrival.</xs:documentation>

</xs:annotation>

<xs:simpleType>

<xs:restrictionbase="xs:integer" />

</xs:simpleType>

</xs:element>

<xs:elementname="InitialEDHospitaltemperature">

<xs:annotation>

<xs:documentation>First recorded temperature (in degrees Celsius [centigrade]) in the ED/hospitalwithin 30 minutes or less of ED/hospital arrival.</xs:documentation>

</xs:annotation>

<xs:simpleType>

<xs:restrictionbase="xs:string" />

</xs:simpleType>

</xs:element>

<xs:elementname="InitialEDHospitalRespiratoryAssistance">

<xs:annotation>

<xs:documentation>Determination ofrespiratory assistance associated with the initial ED/hospital respiratoryrate within 30 minutes or lessof ED/hospital arrival.</xs:documentation>

</xs:annotation>

<xs:simpleType>

<xs:restrictionbase="xs:integer" />

</xs:simpleType>

</xs:element>

<xs:elementname="InitialEDHospitalOxygenSaturation">

<xs:annotation>

<xs:documentation>First recorded oxygen saturation in theED/hospital within 30 minutes or less of ED/hospital arrival (expressed as a percentage).</xs:documentation>

</xs:annotation>

<xs:simpleType>

<xs:restrictionbase="xs:integer" />

</xs:simpleType>

</xs:element>

<xs:elementname="InitialEDHospitalSupplementalOxygen">

<xs:annotation>

<xs:documentation>Determination of the presence of supplemental oxygen during assessment ofinitial ED/hospital oxygen saturation level within 30minutes or less of ED/hospital arrival.</xs:documentation>

</xs:annotation>

<xs:simpleType>

<xs:restrictionbase="xs:integer" />

</xs:simpleType>

</xs:element>

<xs:elementname="InitialEDHospitalHeight">

<xs:annotation>

<xs:documentation>First recorded height upon ED/hospitalarrival.</xs:documentation>

</xs:annotation>

<xs:simpleType>

<xs:restrictionbase="xs:integer" />

</xs:simpleType>

</xs:element>

<xs:elementname="InitialEDHospitalweight">

<xs:annotation>

<xs:documentation>Measured or estimated baseline weight.</xs:documentation>

</xs:annotation>

<xs:simpleType>

<xs:restrictionbase="xs:integer" />

</xs:simpleType>

</xs:element>

<xs:elementname="EDDischargeDisposition">

<xs:annotation>

<xs:documentation>The disposition of the patient at the time of discharge from the ED.</xs:documentation>

</xs:annotation>

<xs:simpleType>

<xs:restrictionbase="xs:integer" />

</xs:simpleType>

</xs:element>

<xs:elementname="Signsoflife">

<xs:annotation>

<xs:documentation>Indication of whether patient arrived atED/Hospitalwith signs of life.</xs:documentation>

</xs:annotation>

<xs:simpleType>

<xs:restrictionbase="xs:integer" />

</xs:simpleType>

</xs:element>

<xs:elementname="TotalICULengthofStay">

<xs:annotation>

<xs:documentation>The cumulative amount of time spent in the ICU. Each partial or full day should be measured as one calendar day.</xs:documentation>

</xs:annotation>

<xs:simpleType>

<xs:restrictionbase="xs:integer" />

</xs:simpleType>

</xs:element>

<xs:elementname="TotalVentilatorDays">

<xs:annotation>

<xs:documentation>The cumulative amount of time spent onthe ventilator. Each partialor full day should be measured as one calendar day.</xs:documentation>

</xs:annotation>

<xs:simpleType>

<xs:restrictionbase="xs:integer" />

</xs:simpleType>

</xs:element>

<xs:elementname="HospitalDischargeDate">

<xs:annotation>

<xs:documentation>The date theorder waswritten for the patient to be discharged fromthe hospital.</xs:documentation>

</xs:annotation>

</xs:element>

<xs:elementname="HospitalDischargeTime">

<xs:annotation>

<xs:documentation>The time the order was written for the patient to be discharged from the hospital.</xs:documentation>

</xs:annotation>

</xs:element>

<xs:elementname="ICD10HospitalProcedureCode">

<xs:complexType>

<xs:sequence>

<xs:elementname="item"maxOccurs="200">

<xs:complexType>

<xs:sequence>

<xs:elementname="ICD10HospitalProcedureCode">

<xs:annotation>

<xs:documentation>Major and minor procedure ICD-10-CM procedurecodes.</xs:documentation>

</xs:annotation>

</xs:element>

<xs:elementname="HospitalProcedureStartDate">

<xs:annotation>

<xs:documentation>The date operative and selectednon-operative procedures were performed.</xs:documentation>

</xs:annotation>

</xs:element>

<xs:elementname="HospitalProcedureStartTime">

<xs:annotation>

<xs:documentation>The time operative and selected non-operative procedures were performed.</xs:documentation>

</xs:annotation>

</xs:element>

</xs:sequence>

</xs:complexType>

</xs:element>

</xs:sequence>

</xs:complexType>

</xs:element>

<xs:elementname="HospitalDischargeDisposition">

<xs:annotation>

<xs:documentation>The disposition of the patient when discharged from the hospital.</xs:documentation>

</xs:annotation>

<xs:simpleType>

<xs:restrictionbase="xs:integer" />

</xs:simpleType>

</xs:element>

<xs:elementname="PrimaryMethodofPayment">

<xs:annotation>

<xs:documentation>Primary source of paymentfor hospital care.</xs:documentation>

</xs:annotation>

<xs:simpleType>

<xs:restrictionbase="xs:integer" />

</xs:simpleType>

</xs:element>

<xs:elementname="Race1">

<xs:annotation>

<xs:documentation>The patient's race.</xs:documentation>

</xs:annotation>

<xs:simpleType>

<xs:restrictionbase="xs:integer" />

</xs:simpleType>

</xs:element>

<xs:elementname="Race2">

<xs:annotation>

<xs:documentation>The patient's race.</xs:documentation>

</xs:annotation>

<xs:simpleType>

<xs:restrictionbase="xs:integer" />

</xs:simpleType>

</xs:element>

<xs:elementname="AdditionalICD10ExternalCauseCode">

<xs:complexType>

<xs:sequence>

<xs:elementname="item"maxOccurs="50">

<xs:complexType>

<xs:sequence>

<xs:elementname="AdditionalICD10ExternalCauseCode">

<xs:annotation>

<xs:documentation>Additional External Cause Code used in conjunction with the Primary External Cause Code if multiple external cause codes are required to describe the injury event.</xs:documentation>

</xs:annotation>

<xs:complexType>

<xs:simpleContent>

<xs:extensionbase="AdditionalICD10ExternalCauseCode">

<xs:attributeref="biu" />

</xs:extension>

</xs:simpleContent>

</xs:complexType>

</xs:element>

<xs:elementname="IncidentDate">

<xs:annotation>

<xs:documentation>The date the injury occurred.</xs:documentation>

</xs:annotation>

<xs:complexType>

<xs:simpleContent>

<xs:extensionbase="IncidentDate">

<xs:attributeref="biu" />

</xs:extension>

</xs:simpleContent>

</xs:complexType>

</xs:element>

<xs:elementname="IncidentTime">

<xs:annotation>

<xs:documentation>The time the injury occurred.</xs:documentation>

</xs:annotation>

<xs:complexType>

<xs:simpleContent>

<xs:extensionbase="Time">

<xs:attributeref="biu" />

</xs:extension>

</xs:simpleContent>

</xs:complexType>

</xs:element>

<xs:elementname="WorkRelated">

<xs:annotation>

<xs:documentation>Indication of whether the injury occurred during paid employment.</xs:documentation>

</xs:annotation>

<xs:complexType>

<xs:simpleContent>

<xs:extensionbase="WorkRelated">

<xs:attributeref="biu" />

</xs:extension>

</xs:simpleContent>

</xs:complexType>

</xs:element>

<xs:elementname="TransportMode">

<xs:annotation>

<xs:documentation>The mode of transport delivering the patient to your hospital.</xs:documentation>

</xs:annotation>

<xs:complexType>

<xs:simpleContent>

<xs:extensionbase="WorkRelated">

<xs:attributeref="biu" />

</xs:extension>

</xs:simpleContent>

</xs:complexType>

</xs:element>

<xs:elementname="ServiceLevel">

<xs:annotation>

<xs:documentation>The highest level of service provided in the hospital setting.</xs:documentation>

</xs:annotation>

<xs:complexType>

<xs:simpleContent>

<xs:extensionbase="ServiceLevel">

<xs:attributeref="biu" />

</xs:extension>

</xs:simpleContent>

</xs:complexType>

</xs:element>

<xs:elementname="IncidentCity">

<xs:annotation>

<xs:documentation>The city or township where the patient was found or to which the unit responded (or best approximation).</xs:documentation>

</xs:annotation>

<xs:complexType>

<xs:simpleContent>

<xs:extensionbase="IncidentCity">

<xs:attributeref="biu" />

</xs:extension>

</xs:simpleContent>

</xs:complexType>

</xs:element>

<xs:elementname="IncidentState">

<xs:annotation>

<xs:documentation>The State where the patient was found or to which the unit responded (or best approximation).</xs:documentation>

</xs:annotation>

<xs:complexType>

<xs:simpleContent>

<xs:extensionbase="IncidentState">

<xs:attributeref="biu" />

</xs:extension>

</xs:simpleContent>

</xs:complexType>

</xs:element>

<xs:element name="AlcoholScreen">

<xs:annotation>

<xs:documentation>A blood alcohol concentration (BAC) test was performed on the patient within 24 hours after first hospital encounter.</xs:documentation>

</xs:annotation>

<xs:complexType>

<xs:simpleContent>

<xs:extension base="AlcoholScreen">

<xs:attribute ref="biu" />

</xs:extension>

</xs:simpleContent>

</xs:complexType>

</xs:element>

<xs:element name="AlcoholScreenResults">

<xs:annotation>

<xs:documentation>First recorded blood alcohol concentration (BAC) resultes within 24 hours after first hospital encounter.

</xs:documentation>

</xs:annotation>

<xs:simpleType>

<xs:restriction base="xs:string" />

</xs:simpleType>

</xs:element>

<xs:element name="DrugScreens">

<xs:complexType>

<xs:sequence>

<xs:element name="item" maxOccurs="5">

<xs:complexType>

<xs:sequence>

<xs:element name="DrugScreen">

<xs:annotation>

<xs:documentation>First recorded positive drug screen results within 24 hours after first hospital encounter (select first 5 that apply).

</xs:documentation>

</xs:annotation>

<xs:complexType>

<xs:simpleContent>

<xs:extension base="DrugScreen">

<xs:attribute ref="biu" />

</xs:extension>

</xs:simpleContent>

</xs:complexType>

</xs:element>

</xs:sequence>

</xs:complexType>

</xs:element>

</xs:sequence>

</xs:complexType>

</xs:element>

<xs:elementname="GcsEye">

<xs:annotation>

<xs:documentation>First recorded Glasgow Coma Score (Eye) in the ED/hospital.</xs:documentation>

</xs:annotation>

<xs:complexType>

<xs:simpleContent>

<xs:extensionbase="GcsEye">

<xs:attributeref="biu" />

</xs:extension>

</xs:simpleContent>

</xs:complexType>

</xs:element>

<xs:elementname="GcsVerbal">

<xs:annotation>

<xs:documentation>First recorded Glasgow Coma Score (Verbal) in the ED/hospital.</xs:documentation>

</xs:annotation>

<xs:complexType>

<xs:simpleContent>

<xs:extensionbase="GcsVerbal">

<xs:attributeref="biu" />

</xs:extension>

</xs:simpleContent>

</xs:complexType>

</xs:element>

<xs:elementname="GcsMotor">

<xs:annotation>

<xs:documentation>First recorded Glasgow Coma Score (Motor) in the ED/hospital.</xs:documentation>

</xs:annotation>

<xs:complexType>

<xs:simpleContent>

<xs:extensionbase="GcsMotor">

<xs:attributeref="biu" />

</xs:extension>

</xs:simpleContent>

</xs:complexType>

</xs:element>

<xs:elementname="TotalGcs">

<xs:annotation>

<xs:documentation>First recorded Glasgow Coma Score (total) in the ED/hospital.</xs:documentation>

</xs:annotation>

<xs:complexType>

<xs:simpleContent>

<xs:extensionbase="TotalGcs">

<xs:attributeref="biu" />

</xs:extension>

</xs:simpleContent>

</xs:complexType>

</xs:element>

<xs:elementname="GcsQualifiers">

<xs:complexType>

<xs:sequence>

<xs:elementname="item"maxOccurs="3">

<xs:complexType>

<xs:sequence>

<xs:elementname="GcsQualifier">

<xs:annotation>

<xs:documentation>Documentation of factors potentially affecting the first assessment of GCS upon arrival in the ED/hospital.</xs:documentation>

</xs:annotation>

<xs:complexType>

<xs:simpleContent>

<xs:extensionbase="GcsQualifier">

<xs:attributeref="biu" />

</xs:extension>

</xs:simpleContent>

</xs:complexType>

</xs:element>

</xs:sequence>

</xs:complexType>

</xs:element>

</xs:sequence>

</xs:complexType>

</xs:element>

<xs:elementname="RespiratoryRate">

<xs:annotation>

<xs:documentation>First recorded respiratory rate in the ED/hospital (expressed as a number per minute).</xs:documentation>

</xs:annotation>

<xs:complexType>

<xs:simpleContent>

<xs:extensionbase="RespiratoryRate">

<xs:attributeref="biu" />

</xs:extension>

</xs:simpleContent>

</xs:complexType>

</xs:element>

<xs:elementname="Sbp">

<xs:annotation>

<xs:documentation>First recorded systolic blood pressure in the ED/Hospital</xs:documentation>

</xs:annotation>

<xs:complexType>

<xs:simpleContent>

<xs:extensionbase="Sbp">

<xs:attributeref="biu" />

</xs:extension>

</xs:simpleContent>

</xs:complexType>

</xs:element>

<xs:elementname="PulseRate">

<xs:annotation>

<xs:documentation>First recorded systolic blood pressure in the ED/hospital.</xs:documentation>

</xs:annotation>

<xs:complexType>

<xs:simpleContent>

<xs:extensionbase="PulseRate">

<xs:attributeref="biu" />

</xs:extension>

</xs:simpleContent>

</xs:complexType>

</xs:element>

<xs:elementname="InjuryDiagnoses">

<xs:complexType>

<xs:sequence>

<xs:elementname="item"maxOccurs="50">

<xs:complexType>

<xs:sequence>

<xs:elementname="InjuryDiagnosis">

<xs:annotation>

<xs:documentation>Diagnoses related to all identified injuries.</xs:documentation>

</xs:annotation>

<xs:complexType>

<xs:simpleContent>

<xs:extensionbase="InjuryDiagnosis">

<xs:attributeref="biu" />

</xs:extension>

</xs:simpleContent>

</xs:complexType>

</xs:element>

<xs:elementname="AIS">

<xs:annotation>

<xs:documentation>AIS numerical injury identifier.Must be a valid AIS 90 code. Must consist of 6 numbers followed by a decimal point followed by 1 number. The number following the decimal point must be as specified in Data Code Tables. (Table 10) (1-6).</xs:documentation>

</xs:annotation>

<xs:complexType>

<xs:simpleContent>

<xs:extensionbase="AIS">

<xs:attributeref="biu" />

</xs:extension>

</xs:simpleContent>

</xs:complexType>

</xs:element>

<xs:elementname="AISVersion">

<xs:annotation>

<xs:documentation>Indicates which version of AIS is used to calculate AIS90. Only the 1998 revision of AIS90 or an earlier version are accepted.Must be present for each Diagnosis Code. Must be 85, 90 or 98.</xs:documentation>

</xs:annotation>

<xs:complexType>

<xs:simpleContent>

<xs:extensionbase="AISVersion">

<xs:attributeref="biu" />

</xs:extension>

</xs:simpleContent>

</xs:complexType>

</xs:element>

<xs:elementname="ICD9CMDiagnosisCode">

<xs:annotation>

<xs:documentation>Must be present.

Must be valid ICD-9-CM code. (exclude decimal point).</xs:documentation>

</xs:annotation>

<xs:complexType>

<xs:simpleContent>

<xs:extensionbase="ICD9CMDiagnosisCode ">

<xs:attributeref="biu" />

</xs:extension>

</xs:simpleContent>

</xs:complexType>

</xs:element>

</xs:sequence>

</xs:complexType>

</xs:element>

</xs:sequence>

</xs:complexType>

</xs:element>

<xs:elementname="ProtectiveDevices">

<xs:complexType>

<xs:sequence>

<xs:elementname="item"maxOccurs="unbounded">

<xs:complexType>

<xs:sequence>

<xs:elementname="ProtectiveDevice">

<xs:annotation>

<xs:documentation>Protective devices (safety equipment) in use or worn by the patient at the time of the injury.</xs:documentation>

</xs:annotation>

<xs:complexType>

<xs:simpleContent>

<xs:extensionbase="ProtectiveDevice">

<xs:attributeref="biu" />

</xs:extension>

</xs:simpleContent>

</xs:complexType>

</xs:element>

</xs:sequence>

</xs:complexType>

</xs:element>

</xs:sequence>

</xs:complexType>

</xs:element>

<xs:elementname="ChildSpecificRestraint">

<xs:annotation>

<xs:documentation>Protective child restraint devices used by patient at the time of injury.</xs:documentation>

</xs:annotation>

<xs:complexType>

<xs:simpleContent>

<xs:extensionbase="ChildSpecificRestraint">

<xs:attributeref="biu" />

</xs:extension>

</xs:simpleContent>

</xs:complexType>

</xs:element>

<xs:elementname="AirbagDeployments">

<xs:complexType>

<xs:sequence>

<xs:elementname="item"maxOccurs="unbounded">

<xs:complexType>

<xs:sequence>

<xs:elementname="AirbagDeployment">

<xs:annotation>

<xs:documentation>Indication of an airbag deployment during a motor vehicle crash.</xs:documentation>

</xs:annotation>

<xs:complexType>

<xs:simpleContent>

<xs:extensionbase="AirbagDeployment">

<xs:attributeref="biu" />

</xs:extension>

</xs:simpleContent>

</xs:complexType>

</xs:element>

</xs:sequence>

</xs:complexType>

</xs:element>

</xs:sequence>

</xs:complexType>

</xs:element>

<xs:elementname="OtherTransportMode">

<xs:complexType>

<xs:sequence>

<xs:elementname="item"maxOccurs="5">

<xs:annotation>

<xs:documentation>All other modes of transportused during patient care event (prior to arrival at your hospital),except the mode delivering the patientto the hospital.</xs:documentation>

</xs:annotation>

</xs:element>

</xs:sequence>

</xs:complexType>

</xs:element>

<xs:elementname="ComorbidConditions">

<xs:complexType>

<xs:sequence>

<xs:elementname="item"maxOccurs="5">

<xs:complexType>

<xs:sequence>

<xs:elementname="ComorbidCondition">

<xs:annotation>

<xs:documentation>Pre-existing comorbid factors present at patient arrive to ED/hospital.</xs:documentation>

</xs:annotation>

<xs:complexType>

<xs:simpleContent>

<xs:extensionbase="ComorbidCondition">

<xs:attributeref="biu" />

</xs:extension>

</xs:simpleContent>

</xs:complexType>

</xs:element>

</xs:sequence>

</xs:complexType>

</xs:element>

</xs:sequence>

</xs:complexType>

</xs:element>

<xs:elementname="HospitalComplications">

<xs:complexType>

<xs:all>

<xs:elementname="item"maxOccurs="10">

<xs:complexType>

<xs:sequence>

<xs:elementname="HospitalComplication">

<xs:annotation>

<xs:documentation>Diagnoses related to all identified injuries.</xs:documentation>

</xs:annotation>

<xs:complexType>

<xs:simpleContent>

<xs:extensionbase="HospitalComplication">

<xs:attributeref="biu" />

</xs:extension>

</xs:simpleContent>

</xs:complexType>

</xs:element>

</xs:sequence>

</xs:complexType>

</xs:element>

</xs:all>

</xs:complexType>

</xs:element>

</xs:all>

</xs:complexType>

</xs:element>

</xs:sequence>

<xs:attributename="MDPHTraumaVersion"use="required"fixed="v1.0.0" />

</xs:complexType>

</xs:element>

</xs:schema>

# Massachusetts Trauma Sample XML File

Please note that the purpose of this sample is to show sample XML formatting. It is not meant to show realistic data.

**Note:** When writing up the XML element tags, the coding should not include "biu=" . For example, HomeCity should be coded as <HomeCity>76678</HomeCity> rather than something like <HomeCity biu=’76678’/>.

<?xml version="1.0"?>

<MDPHTraumaRecords MDPHTraumaVersion="v1.0.0">

<MDPHTraumaRecord>

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               <FacilityId>105</FacilityId>

               <FacilitySiteId>105</FacilitySiteId>

<InterFacilityTransfer>1</InterFacilityTransfer>

<FacilitySiteIdOfTransferringHospital>16</FacilitySiteIdOfTransferringHospital>

<EDDischargeDate>2016-01-01</EDDischargeDate>

<EDDischargeTime>05:05</EDDischargeTime>

<HospitalArrivalDate>2016-01-01</HospitalArrivalDate>

<HospitalArrivalTime>05:05</HospitalArrivalTime>

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<DateOfBirth>1978-04-24</DateOfBirth>

               <Sex>1</Sex>

               <PatientStreetAddress>100 Main Street</PatientStreetAddress>

<HomeCity>76678</HomeCity>

<HomeZip>02702</HomeZip>

<IncidentDate>2016-01-01</IncidentDate>

<IncidentTime>13:02</IncidentTime>

<WorkRelated>1</WorkRelated>

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<IncidentCity>12345</IncidentCity>

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<GcsEye>1</GcsEye>

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<ServiceLevel>8</ServiceLevel>

<PatientHomeCountry>10</PatientHomeCountry>

<PatientHomeCounty>666</PatientHomeCounty>

<AlternateHomeResidence>99</AlternateHomeResidence>

<Age>38</Age>

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<Ethnicity>22</Ethnicity>

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<PatientOccupation>44</PatientOccupation>

<ICD10PrimaryExternalCauseCode>7777777</ICD10PrimaryExternalCauseCode>

<ICD10PlaceofOccurrenceExternalCauseCode>88888888</ICD10PlaceofOccurrenceExternalCauseCode>

<IncidentLocationPostalCode>028934444</IncidentLocationPostalCode>

<IncidentCountry>12</IncidentCountry>

<IncidentCounty>32</IncidentCounty>

<ReportofPhysicalAbuse>1</ReportofPhysicalAbuse>

<InvestigationofPhysicalAbuse>2</InvestigationofPhysicalAbuse>

<CaregiveratDischarge>9</CaregiveratDischarge>

<EMSDispatchDate>20160101</EMSDispatchDate>

<EMSDispatchTime>10:20</EMSDispatchTime>

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<EMSUnitDepartureDatefromSceneorTransferringFacility>2016-01-01</EMSUnitDepartureDatefromSceneorTransferringFacility>

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<DepartureTimeSceneorTransferring>8</DepartureTimeSceneorTransferring>

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