

National Trauma Data Standard Change Log

- 1/24/2007 During a recent NTDB National Trauma Data Set (NTDS) Meeting held January 18, 2007 at ACS Headquarters, it was decided to revise the name of the “National Trauma Registry Project (NTR) to the National Trauma Data Standard Project (NTDS). Thus, the revised national data dictionary now reads: National Trauma Data Standard Data Dictionary (version 1.0).
- 1/24/2007 A typographical error was identified under XSD Data Type for Patient’s Home Zip Code (D_01). The data type was changed from integer to string.
- 1/24/2007 A revision to the dictionary and associated XML was made for Patient’s Home Country (D_02). The Minimum Constraint was changed from 3 to 2. The Maximum Constraint was changed from 3 to 2.
- 1/24/2007 A revision to the dictionary and associated XML was made for Patient’s Occupational Industry (I_04). The field value “Wholesale and Retail Trade” was changed to “Wholesale Trade”.
- 1/24/2007 A revision to the dictionary and associated XML was made for Location E-Code (I_07). The Minimum Constraint was changed from 3 to 1. The Maximum Constraint was changed from 5 to 1.
- 1/24/2007 A typographical error was identified under XSD Data Type for Incident Location Zip Code (I_09). The data type was changed from integer to string.
- 1/24/2007 A revision to the dictionary and associated XML was made for Protective Devices (I_13). The field value “Airbag” was changed to “Airbag Present”.
- 1/24/2007 A revision to the dictionary and associated XML was made for Airbag Deployment (I_15). The field value “No Airbag Deployed” was changed to “Airbag Not Deployed”.
- 1/24/2007 A revision to the dictionary and associated XML was made for Co-Morbid Conditions (DG_01). The field value “No Co-Morbid Condition Present” was changed to “No NTDS Co-Morbidities are Present”. A note was added to the data dictionary indicating: “The field value (1) “No NTDS co-morbidities are present” would be chosen if none of the pre-existing co-morbid factors listed above are present in the patient. This particular field value is available

since individual state or hospital registries may track additional co-morbid factors not listed here”.

- 1/24/2007 A revision to the dictionary and associated XML was made for Total ICU Length of Stay (O_01). The Maximum Constraint was changed from 100 to 400.
- 1/24/2007 A revision to the dictionary and associated XML was made for Total Ventilator Days (O_02). The Maximum Constraint was changed from 100 to 400.
- 1/24/2007 A typographical error was identified in variable Hospital Discharge Time (O_04). The minimum and maximum constraints were removed.
- 1/24/2007 A revision to the dictionary and associated XML was made for Hospital Complications (Q_01). The field value “No Medical Complications Occurred” was changed to “No NTDS listed Medical Complications Occurred”. A note was added to the data dictionary indicating: “The field value (1) “No NTDS listed medical complications occurred” would be chosen if none of the hospital complications listed above are present in the patient. This particular field value is available since individual state or hospital registries may track additional hospital complications not listed here”.
- 1/24/2007 A revision to the dictionary and associated XML was made for Co-Morbid Conditions (DG_01). The following two field values were added: “Prematurity” and “Congenital Anomalies”. Additional documentation was added to Appendix 7 to define these terms.
- 1/24/2007 A revision to the dictionary and associated XML was made for Co-Morbid Conditions (DG_01). The field value “History of Severe COPD” was replaced with “Respiratory Disease”. Appropriate changes to Appendix 7 were made.
- 1/24/2007 A revision to the dictionary was made to the field value “Impaired Sensorium” associated with the variable Co-Morbid Conditions (DG_01). Additional language was included to describe pediatric conditions.
- 4/12/2007 Revised the NTDS Data Dictionary 1.0 to version 1.1. The revision is associated with a re-working of Appendix 2. Version 1.0 included a description of variables (and accompanying XSDs) included in the NTDS XML to describe hospital characteristics (i.e., H_01 through H_05). These variables were to be collected by vendors (on an

annual basis) in such a way that the resulting values could be attached to each case submitted to the NTDB during that year. In reality, the NTDB chose to collect these data via a web entry form at the time hospitals submit data to the NTDB. Thus, the variables listed in version 1.0 (and additional variables) are captured by the ACS at the time of data submission by the hospital. No modification to the XML (or XSDs) is required at this time. Vendors may allow these variables to sit dormant within the NTDS XML. If vendors have additional questions, please contact Dr. Clay Mann at (801) 585-9161.

- 5/11/2007 Revised the NTDS Data Dictionary 1.1 to version 1.1.1. A clarification was made to variable "Hospital Discharge Disposition" (O_05). For field value = 6, "home" refers to any place of residence (jail, institutional care, etc). Also, the CDC Injury Intentionality Matrix (Table 2.) was updated to the latest version (Feb. 1, 2007).
- 5/18/2007 The NTDS XSDs were updated to reflect the name change of the dataset from NTR to NTDS. These changes were made to ensure the Validator contained in the new SDK would not hiccup. The changes made were:
 - Element: NtrRecords to NtdsRecords
 - Element: NtrRecord to NtdsRecord
 - Attribute: NTRVersion to NtdsVersion (and the fixed value to v1.0.0).
- 10/18/2007 **Revisions listed under 10/18/2007 change the NTDS 1.1.1 version to the NTDS 1.2 version**
- 10/18/2007 Age (D_08): XSD Minimum and Maximum Constraints changed from 1 and 120 to 0 and 120, respectively.
- 10/18/2007 GCS – Total (P_16) and Initial ED/Hospital GCS – Total (ED_13): XSD Minimum and Maximum Constraints changed from 1 and 15 to 3 and 15, respectively.
- 10/18/2007 Location E-Code (I_07): XSD Minimum and Maximum Constraints changed from 1 and 1 to 0 and 9, respectively.
- 10/18/2007 Patient's Home Country (D_02): XSD changed from string (size =2) with pattern limited to [0-9] to 2 character string with pattern A - Z.
- 10/18/2007 Patient's Home State (D_03): XSD had no restrictions other than string. Changed to 2 character string with pattern 0 - 9.

- 10/18/2007 Incident State (I-10): XSD was string restricted to length between 2 and 3 characters. Changed to 2 character string with pattern 0 - 9.
- 10/18/2007 Patient's Home County (D_04): XSD was an integer restriction of 2 or 3 places. Changed to 3 character string with pattern 0 – 9.
- 10/18/2007 Incident County (I_11): XSD was a string restriction of 2 or 3 digits. Changed to 3 character string with pattern 0 – 9.
- 10/18/2007 Patient's Home City (D_05): XSD was an integer restriction of 2 or 3 places. Changed to 5 character string with pattern 0 – 9.
- 10/18/2007 Incident City (I-12): XSD was a string restriction of 2 or 3 digits. Changed to 5 character string with pattern 0 – 9.
- 10/18/2007 Incident Country (I_09) was added to the database. The XML pattern is 2 character string with pattern 0 – 9. This additional variable reorders Incident Location Zip Code from (I_09) to I_13), Protective Devices (I_13) to (I_14), Child Specific Restraint (I_14) to (I_15), and Airbag Deployment (I_15) to (I_16) in the data dictionary.
- 10/18/2007 Co-morbid Conditions (DG_01), Patient's Occupational Industry (I_04), ED Discharge (ED_17), Hospital Discharge Disposition (O_05), ED Death (ED_18) and Hospital Complications (Q_01): XSDs were string with values enumerated as integers. All were changed to type integer with restriction of 2.
- 10/18/2007 Primary E-Code (I_06), Location E-Code (I_07) and Additional E-Code (I_08): XSD was type string with minimum 3 maximum 6 characters. Changed to type string with minimum 3 maximum 5 characters.
- 10/18/2007 Hospital Procedures (HP_01) and Injury Diagnoses (DG_02): XSD was type string with minimum 3 maximum 6 characters. Changed to type string with minimum 3 maximum 5 characters.
- 10/18/2007 Initial ED/Hospital Respiratory Assistance (ED_07): Type was declared at the bottom of the XSD but the element was not in the XSD, not making use of the Type. Initial ED/Hospital Respiratory Assistance was added to the XSD.
- 10/18/2007 Other Transport Mode (P_08): XSD allowed for unlimited entries. XSD set to a maximum of 5 entries.

- 10/18/2007 The definition for “coma” as a value under Hospital Complications (Q_01) was clarified to read: Defined as significantly impaired level of consciousness (exclude transient disorientation or psychosis) for greater than 24 hours. The patient should be unconscious, or postures to painful stimuli, or is unresponsive to all stimuli. Does not include drug-induced coma.
- 10/18/2007 The minimum and maximum constraints for Initial Field Systolic Blood Pressure (P_09) and Initial ED/Hospital Systolic Blood Pressure (ED_03) were revised from 0 and 400 to 0 and 299.
- 10/18/2007 The minimum and maximum constraints for Initial Field Pulse Rate (P-10) and Initial ED/Hospital Pulse Rate (ED_04) were revised from 0 and 400 to 0 and 299.
- 10/18/2007 The minimum and maximum constraints for Initial Field Respiratory Rate (P-11) and Initial ED/Hospital Respiratory Rate (ED_06) were revised from 0 and 100 to 0 and 59.
- 10/18/2007 Two value labels listed for Patient’s Occupational Industry (I-04) were correct. 11 was changed from “Other Services” to “Information Services” and 14 was changed from “Transportation and Utilities” to “Other Services”. The appropriate change was also made to the XSD.
- 10/18/2007 The minimum and maximum constraint for Initial ED/Hospital Temperature (ED_05) was revised from 0 and 400 to 0 and 120.
- 10/18/2007 The following clarifications have been added to the dictionary regarding Alcohol Use Indicator (ED_15):
- Blood alcohol concentration (BAC) may be documented at any facility (or setting) treating the patient.
- “Trace levels” is defined as any alcohol level below the legal limit, but not zero.
- “Beyond legal limit” is defined as a blood alcohol concentration above the legal limit for the state in which the treating institution is located.
- 10/18/2007 Hospital Procedures (HP_01): XSD allowed for unlimited entries. XSD set to a maximum of 200 entries.
- 10/18/2007 Injury Diagnoses (DG_02): XSD allowed for unlimited entries. XSD set to a maximum of 50 entries.

- 10/18/2007 Value labels associated with the variable Drug Use Indicator (ED_16) were revised to harmonize with value labels associated with Alcohol Use Indicator (ED_15). The value label “No (by test or not suspected)” was revised to “No (not suspected)”. The value label “Yes (suspected)” was revised to “No (confirmed by test)”. The appropriate XSD revisions were made.
- 10/18/2007 The following clarifications have been added to the dictionary regarding Drug Use Indicator (ED_16):
- Drug use may be documented at any facility (or setting) treating this patient event.
- “Illegal use drug” includes illegal use of prescription drugs.
- 10/18/2007 The following clarification has been added to the dictionary regarding ED Death (ED_18):
- Patients treated in accordance with a “Do Not Resuscitate” (DNR) order should be coded under “Died in ED (other than failed resuscitation attempt)”.
- 10/18/2007 An additional section was added to the NTDS Data Dictionary. This section, entitled “Injury Severity”, was added to accommodate variables related to AIS that may be reported by hospitals. These variables are considered *optional* and are not required by the NTDS. The variables added include:
1. AIS PREDOT Code (IS_01)
 2. AIS Severity (IS_02)
 3. ISS Body Region (IS_03)
 4. AIS Version (IS_04)
 5. Locally Calculated ISS (IS_05)
- 10/18/2007 Race (D_10): XSD allowed for unlimited entries. XSD set to a maximum of 2 entries.
- 10/18/2007 Ethnicity (D_11): XSD allowed for unlimited entries. XSD set to a maximum of 1 entry.
- 10/18/2007 An additional heading was added to each variable description called “Data Source Hierarchy”. The information under this heading is designed to indicate where (in order) an abstractor should look to find the associated information for each variable. The purpose of

this information is to aid in the standardization of data recorded in the NTDB.

- 11/26/2007 Patient's Home Zip Code (D_01): Changed XSD Data Type from xs:string to xs:zip.
- 11/26/2007 Location E-Code (I_07):
 - Changed XSD Data Type from xs:string to xs:integer.
 - Added minimum and maximum constraints of 0 to 9.
- 11/26/2007 Incident Country (I_09): Corrected the definition (had the Home Country definition)
- 11/26/2007 Incident Location Zip Code (I_13): Changed XSD Data Type from xs:string to xs:zip.
- 11/26/2007 Protective Devices (I_14): Changed the Multiple Entry Configuration from unbounded to max 10.
- 11/26/2007 Airbag Deployment (I_16): Added max 4 to the Multiple Entry Configuration.
- 11/26/2007 Other Transport Mode (P_08): Added max 5 to the Multiple Entry Configuration.
- 11/26/2007 Hospital Procedures (HP_01): Added max 200 to the Multiple Entry Configuration.
- 11/26/2007 Hospital Procedure Start Date (HP_02):
 - Changed the element name to match that of the XSD. Changed from *ProcedureDate* to *HospitalProcedureStartDate*.
 - Added max 200 to the Multiple Entry Configuration.
- 11/26/2007 Hospital Procedure Start Time (HP_03):
 - Changed the element name to match that of the XSD. Changed from *ProcedureTime* to *HospitalProcedureStartTime*.
 - Added max 200 to the Multiple Entry Configuration.
- 11/26/2007 Co-Morbid Conditions (DG_01): Added max 5 to the Multiple Entry Configuration.
- 11/26/2007 Injury Diagnoses (DG_02):
 - Changed XSD Data Type from xs:integer to xs:string.
 - Added max 50 to the Multiple Entry Configuration.

- 11/26/2007 AIS Predot Code (IS_01):
- Changed element name from AISPredot to AisPredot.
 - Added max 50 to the Multiple Entry Configuration.
- 11/26/2007 AIS Severity (IS_02):
- Changed element name from AISSeverity to AisSeverity.
 - Added max 50 to the Multiple Entry Configuration.
- 11/26/2007 ISS Body Region (IS_03):
- Changed element name from ISSRegion to IssRegion.
 - Added max 50 to the Multiple Entry Configuration.
- 11/26/2007 AIS Version (IS_04): Changed element name from AISVersion to AisVersion.
- 11/26/2007 Locally Calculated ISS (IS_05): Changed element name from ISSLocal to IssLocal.
- 11/26/2007 Primary Method of Payment (F_01):
- Changed XSD Data Type from xs:string to xs:integer.
 - Removed the minimum and maximum constraints.
- 11/26/2007 Hospital Complications (Q_01): Added max 10 to the Multiple Entry Configuration.
- 11/26/2007 FIPS Code (Appendix 1): Corrected County FIPS from 2-digit to 3-digit.
- 11/29/2007 INCIDENT LOCATION ZIP CODE (I_13): Added Incident Country to *"If 'Not Applicable', 'Not Recorded', or 'Not Known' complete variables: Incident State; Incident County; Incident City; and Incident Country."*
- 11/29/2007 Appendix 5: Added Incident Country to the Injury Variables
- 11/29/2007 Appendix 5: Added new section for Injury Severity Variables, which includes:
AIS Predot Code, AIS Severity, ISS Body Region, AIS Version, and Locally Calculated ISS
- 01/25/2008 Appendix 7 - Hospital Complications: Abdominal Compartment Syndrome. Added ICD-9-CM code 958.93
- 01/25/2008 Appendix 7 - Hospital Complications: Acute Renal Failure. Added ICD-9-CM codes 584.5 through 584.9 and 958.5

- 01/25/2008 Appendix 7 - Hospital Complications: Cardiac Arrest with CPR. Changed variable definition to read: The absence of a cardiac rhythm or presence of chaotic cardiac rhythm that results in loss of consciousness requiring the initiation of any component of basic and/or advanced cardiac life support. Excludes patients that arrive at the hospital in full arrest.
- 01/25/2008 Appendix 7 - Hospital Complications: Coagulopathy. Added ICD-9-CM code 286.6
- 01/25/2008 Appendix 7 - Hospital Complications: Deep Vein Thrombosis (DVT)/thrombophlebitis. Changed variable definition to read: The formation, development, or existence of a blood clot or thrombus within the vascular system, which may be coupled with inflammation. This diagnosis may be confirmed by a venogram, ultrasound, or CT. The patient must be treated with anticoagulation therapy and/or placement of a vena cava filter or clipping of the vena cava.
- 01/25/2008 Appendix 7 - Hospital Complications: Deep Surgical Site Infection. Changed associated note to read: Report infections that involve both superficial and deep incision sites as deep surgical site infection. If wound spontaneously opens as a result of infection, code for Deep Surgical Site Infection and Wound Disruption.
- 01/25/2008 Appendix 7 - Hospital Complications: Deep Vein Thrombosis (DVT)/thrombophlebitis. Added ICD-9-CM codes 451.0, 451.1, 451.11, 451.19, 451.8, 451.81- 451.84, 451.89, 451.9
- 01/25/2008 Appendix 7 - Hospital Complications: Myocardial Infarction. Changed variable definition to read: A new acute myocardial infarction occurring during hospitalization (within 30 days of injury).
- 01/25/2008 Appendix 7 - Hospital Complications: Pneumonia. Added ICD-9-CM codes 480, 480.0-480.3, 482.3, 482.30, 482.4, 482.8, 482.82, 482.83, 483.0, 483.1, 484, 484.1, 484.3, 484.5-484.8
- 01/25/2008 Total Ventilator Days (Q_02): Added note under Additional Information: Includes mechanical ventilation time associated with OR procedures.
- 01/25/2008 Alcohol Use Indicator (ED_15): Modified first field value to read: No (not suspected, not tested). Also added note under Additional Information which reads: If alcohol use is suspected, but not confirmed by test, record null value "Not Known".

- 01/25/2008 Drug Use Indicator (ED_16): Modified first field value to read: No (not suspected, not tested). Modified second field value to read: No (confirmed by test). Also added note under Additional Information which reads: If drug use is suspected, but not confirmed by test, record null value "Not Known".
- 02/15/2008 Initial ED/Hospital Temperature (ED_05): Maximum constraint changed from 120 to 45.
- 02/15/2008 Injury Severity (IS_02): Field value added: 9 - Not Possible to Assign. Also added note under Additional Information which reads: The field value (9) "Not Possible to Assign" would be chosen if it is not possible to assign a severity to an injury.
- 02/15/2008 Patient's Home State (D_03): Modified item under Field Values to read: Relevant value for data element (two digit numeric FIPS code).
- 02/15/2008 Incident State (I_10): Modified item under Field Values to read: Relevant value for data element (two digit numeric FIPS code).
- 02/15/2008 Appendix 4 – Rule 6903: Modified to read: At least one diagnosis must be provided and meet inclusion criteria (800 – 959.9, except for 905 – 909.9, 910 – 924.9, 930 – 939.9)
- 02/15/2008 Appendix 4 – Rules 3601, 3701, 3801, 3901, 4701, 4901, 5001, 4801 and 5201 were modified to only enforce a length check and no longer enforce a range check.
- 02/15/2008 Appendix 4 – Rules 3603, 3703, 3803, 3903, 4704, 4903, 5005, 4804 and 5204 were added to enforce a range check.
- 04/21/2008 Common Null Values: Added Definition of Not Recorded under Additional Information to include instances where documentation was expected but none was provided.
- 04/21/2008 Date of Birth: Change made to indicate that if Age was less than 24 hours Age and Age Unit would need to be collected.
- 04/21/2008 Age: Change made to indicate that if DOB was less than 24 hours Age and Age Unit would need to be collected.
- 04/21/2008 Age Units: Change made to indicate that if DOB was less than 24 hours Age and Age Unit would need to be collected.

- 04/21/2008 Injury Incident Date/Time: Removed language "If date of injury is 'Not Recorded' or 'Not Known,' the null value is blank (or empty)."
- 04/21/2008 Incident City: Took out language in definition "or best approximation," and added an additional definition in Additional Information: "If incident location resides outside of formal city boundaries, report nearest city/town."
- 04/21/2008 Protective Devices: Added a description to the Lap Belt category which states: "Lap Belt should be used to include those patients that are restrained, but not further specified."
- 04/21/2008 Inter-Facility Transfer: Added a definition for Acute Care Facilities: "Outlying facilities purporting to provide emergency care services or utilized to stabilize a patient are considered acute care facilities."
- 04/21/2008 Initial ED Hospital Respiratory Assistance: Added a definition for Respiratory Assistance: "Respiratory Assistance is defined as mechanical and/or external support of respiration."
- 04/21/2008 Alcohol Use Indicator: Added another definition concerning DUI, DWI, or DWAs for clarification.
- 04/21/2008 Drug Use Indicator: Added definition stating "This data element refers to drug use by the patient and does not include medical treatment."
- 04/21/2008 Hospital Procedures: Added clarification that the element should "Include only procedures performed at your institution."
- 04/21/2008 Hospital Discharge Disposition: Additional Information added. "Disposition to any other non-medical facility should be coded as 6: Discharged home with no home services."
"Disposition to any other medical facility should be coded as 9: Discharged/Transferred to another type of rehabilitation or long-term care facility."
- 04/21/2008 Definition of Impaired Sensorium added to. "Mental retardation would qualify as impaired sensorium."
- 04/21/2008 Definition of Respiratory Disease changed with ICD-9Code Ranges deleted.
- 04/21/2008 Definition of Diabetes Mellitus changed. Took out phrase, "Do not include a patient if diabetes is controlled by diet alone."

- 04/21/2008 Added information to Injury Diagnoses stating, "ICD-9-CM codes pertaining to other medical conditions (e.g., VCA, MI, co-morbidities, etc.) may also be included in this field, following a complete listing of injury diagnoses.
- 04/21/2008 Initial E/DHospital GCS Assessment Qualifiers: Added information for Additional Information stating, "Identified medical treatments given to the patient that may affect the first assessment of GCS. This field does not apply to self-medications the patient may have administered (i.e., ETOH, prescriptions, etc.)."
- 11/19/2008 **Version number changed from 1.2.2 to 1.2.5.**
- 11/19/2008 Added subsection to the Introduction entitled "Technical Notes Regarding NTDS Implementation."
- 11/19/2008 Inclusion Criteria Flow Chart: Partial definition changed from "Does the patient's hospital admission meet inclusion criteria defined by YOUR trauma registry?" to "Was the patient considered an admission based on your trauma registry inclusion criteria?"
- 11/19/2008 Common Null Values: "Not Recorded" removed as separate response category and collapsed into "Not Known/Not Recorded."
- 11/19/2008 Alternate Home Residence: Added operational definitions for the four value options under Additional Information.
- 11/19/2008 Age: Language changed from "Date of Birth is less than 24 hours" to "age is less than 24 hours" under Additional Information.
- 11/19/2008 Injury Incident Date: Deleted phrase "If the date is electronically stored within a database or transmitted via XML as a "tick," the referenced variables may also be used" under Additional Information.
- 11/19/2008 Injury Incident Time: Deleted phrase "If the time is electronically stored within a database or transmitted via XML as a "tick", the referenced variables may also be used" under Additional Information.
- 11/19/2008 Patient's Occupational Industry: Added phrase "Code as Not Applicable if injury is not work-related" under Additional Information.
- 11/19/2008 Protective Devices: Added phrase "If chart indicates "3 point restraint" choose 2 and 10" under Additional Information.

- 11/19/2008 Airbag Deployment: Added phrase "Airbag Deployed Front should be used for patients with documented airbag deployments, but are not further specified" under Additional Information.
- 11/19/2008 EMS Dispatch Date: Added phrases "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" and "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" under Definition. Also deleted the phrase "If the time is electronically stored within a database or transmitted via XML as a "tick", the referenced variables may also be used" under Additional Information.
- 11/19/2008 EMS Dispatch Time: Added phrases "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" and "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" under Definition.
- 11/19/2008 EMS Unit Arrival on Scene Date changed to EMS Unit Arrival at Scene/Transferring Facility Date.
- 11/19/2008 EMS Unit Arrival at Scene/Transferring Facility Date: Added phrases "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)" and "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)" under Definition.
- 11/19/2008 EMS Unit Arrival at Scene/Transferring Facility Date: Deleted phrases "Scene may be defined as "initial hospital" for inter-facility transfers" and "If the date is electronically stored within a database or transmitted via XML as a "tick", the referenced variables may also be used" under Additional Information.
- 11/19/2008 EMS Unit Arrival on Scene Time changed to EMS Unit Arrival at Scene/Transferring Facility Time. Same content changes as EMS Unit Arrival at Scene/Transferring Facility Date.

- 11/19/2008 EMS Unit Scene Departure Date changed to EMS Unit Scene/Transferring Facility Departure Date.
- 11/19/2008 EMS Unit Scene/Transferring Facility Departure Date: Added phrases “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)” and 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 (arrival is defined at date/time when the vehicle started moving)” under Definition.
- 11/19/2008 EMS Unit Scene/Transferring Facility Departure Date: Deleted phrases “If the time is electronically stored within a database or transmitted via XML as a “tick,” the referenced variables may also be used” and “Scene may be defined as “initial hospital” for inter-facility transfers” from Additional Information.
- 11/19/2008 EMS Unit Scene Departure Time changed to EMS Unit Scene/Transferring Facility Departure Time. Same content changes as EMS Unit Scene/Transferring Facility Departure Date.
- 11/19/2008 Other Transport Mode: Added phrase “(prior to arrival at your hospital)” under Definition.
- 11/19/2008 Initial Field Systolic Blood Pressure: Deleted phrase “First recorded systolic blood pressure in the pre-hospital setting” and added phrase “First recorded systolic blood pressure measured at the scene of injury” under Definition. Also deleted phrase “Field vital signs are the first vitals measured at the scene of injury” and added phrase “If the patient is transferred to your facility with no EMS run sheet from the scene of injury, record as *Not Known/Not Recorded*” under Additional Information.
- 11/19/2008 Initial Field Pulse Rate: Deleted phrase “in the pre-hospital setting” and added phrase “measured at the scene of injury” under Definition. Also deleted phrase “vital signs are the first vitals measured at the scene of injury” and added phrase “If the patient is transferred to your facility with no EMS run sheet from the scene of injury, record as *Not Known/Not Recorded*” under Additional Information.
- 11/19/2008 Initial Field Respiratory Rate: Deleted phrase “in the pre-hospital setting” and added phrase “measured at the scene of injury” under Definition. Also deleted phrase “vital signs are the first vitals

measured at the scene of injury” and added phrase “If the patient is transferred to your facility with no EMS run sheet from the scene of injury, record as *Not Known/Not Recorded*” under Additional Information.

- 11/19/2008 Initial Field Oxygen Saturation: Deleted phrase “in the pre-hospital setting” and added phrase “measured at the scene of injury” under Definition. Also deleted phrase “vital signs are the first vitals measured at the scene of injury” and added phrase “If the patient is transferred to your facility with no EMS run sheet from the scene of injury, record as *Not Known/Not Recorded*” under Additional Information.
- 11/19/2008 Initial Field GCS-Eye, Initial Field GCS-Verbal, Initial Field GCS-Motor: Deleted phrase “in the pre-hospital setting” and added phrase “measured at the scene of injury” under Definition. Also deleted phrase “vital signs are the first vitals measured at the scene of injury” and added phrase “If the patient is transferred to your facility with no EMS run sheet from the scene of injury, record as *Not Known/Not Recorded*” under Additional Information.
- 11/19/2008 Initial Field GCS-Total: Deleted phrase “in the pre-hospital setting” and added phrase “measured at the scene of injury” under Definition. Also added phrases “If the patient is transferred to your facility with no EMS run sheet from the scene of injury, record as *Not Known/Not Recorded*” and “If a patient does not have a numeric GCS recorded, but has documented verbiage 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 not other contraindicating documentation” under Additional Information.
- 11/19/2008 ED/Hospital Arrival Date, ED/Hospital Arrival Time: Deleted phrase “If the date/time is electronically stored within a database or transmitted via XML as a “tick,” the referenced variables may also be used”.
- 11/19/2008 Initial ED/Hospital Respiratory Rate: Increased maximum constraint from 59 to 99.
- 11/19/2008 Initial ED/Hospital GCS Assessment Qualifiers: Added phrase “If patient was not chemically sedated, intubated, and did not have eye obstruction then code as Not Applicable” under Additional Information.

- 11/19/2008 Alcohol Use Indicator, Drug Use Indicator: Deleted “not suspected” from Field Value 1 No.
- 11/19/2008 ED Discharge Disposition: Changed UB-92 to UB-04 under Additional Information.
- 11/19/2008 ED Death: Added phrase “(no invasive procedures attempted)” under Field Value 1 DOA.
- 11/19/2008 ED Discharge Date, ED Discharge Time: Deleted phrase “If the date/time is electronically stored within a database or transmitted via XML as a “tick”, the referenced variables may also be used” under Additional Information.
- 11/19/2008 Hospital Procedure Start Date, Hospital Procedure Start Time: Deleted phrase “If the date/time is electronically stored within a database or transmitted via XML as a “tick”, the referenced variables may also be used” under Additional Information.
- 11/19/2008 Injury Diagnoses: Deleted first bullet point “ICD-9-CM codes should be listed starting with the most to least significant injury. The primary injury resulting in the hospitalization should be listed first. The “significance” of other injuries should be based upon severity and location” and deleted “following a complete listing of injury diagnoses” from the second bullet point under Additional Information.
- 11/19/2008 Total Ventilator Days: Changed phrase “(including all episodes)” to “(excluding time in the OR)” under Definition. Additional Information section now shows that we *exclude* mechanical ventilation time associated with OR procedures (previously included).
- 11/19/2008 Hospital Discharge Date, Hospital Discharge Time: Deleted phrase “If the date/time is electronically stored within a database or transmitted via XML as a “tick”, the referenced variables may also be used” under Additional Information.
- 11/19/2008 Hospital Discharge Disposition: Changed Field Value 1 “acute care hospital using EMS” to “short-term general hospital for inpatient care.” Changed Field Value 3 “Home Health Agency” to “organized home health service.” Added to Field Value 4 “or discontinued care.” Changed “UB-92” to “UB-04.”
- 11/19/2008 Appendix 1: Included Trauma Type calculation table. Included tables for both Revised Trauma Score EMS (adult and pediatric) and ED/Hospital (adult and pediatric). Added section on ICD-9-CM

Body Regions and Nature of Injury. Extended Injury Severity Score calculation definition. Added "Use" section to Functional Capacity Index.

- 11/19/2008 Appendix 2: Changed title to "Hospital Characteristics received at time of NTDB Data Submission." Altered format for presenting hospital characteristics.
- 11/19/2008 Appendix 3 "Data Elements used to Link Pre-Hospital Data with Trauma Registry Data" removed.
- 11/19/2008 Appendix 3 "Edit Checks for the National Trauma Data Standard Data Elements": Rule ID 1703 changed to Level 4. Rule ID 2602 changed to Level 3. Rule ID 2702 changed to Level 3. Rule ID 6203 changed to Level 2. Rule ID 6802 changed to Level 2. Rule ID 7903 changed to Level 2. Rule ID 8102 changed to Level 2. Added the following Rule IDs: 3009, 3209, 4514, 6310, 6504, 7710, 7711, 7906, and 7907. Removed the following Rule IDs: 0004, 0604, 2003, 3903, 4403, 4504, 5204, 6103, 6205, 7904, and 7905. Modified verbiage changes for the following Rule IDs: 0005, 0102, 0202, 0302, 0402, 0605, 0703, 0803, 2004, 2102, 2203, 2303, 2403, 4404, 4505, 6104, 6204, 6206, and 7903.
- 11/19/2008 Appendix 5 "National Trauma Data Standard Data Scheme" changed to Appendix 4. "Variable" term in subheadings changed to "Information." Removed "Auto-Populated Variables Defining Hospital Characteristics" and "Variables Auto-Calculated Based on Existing Data Elements."
- 11/19/2008 Appendix 6 "National Trauma Data Standard Data Tree" removed.
- 11/19/2008 Appendix 5 "Glossary of Terms" Co-Morbid Conditions: ICD-9 Code Range for Alcoholism no longer includes 291.8. ICD-9 Code Range for Ascites now includes 789.5 (pre2008), 789.59. ICD-9 Code Range for Bleeding disorder now includes 287.3 (pre 2006). ICD-9 Code Range for Chemotherapy for cancer within 30 days now includes V58.1 (pre 2006), V58.11. ICD-9 Code Range for Congenital Anomalies now includes 758.3 (pre 2005), 752.8 (pre 2004). ICD-9 Code Range for Hypertension requiring medication now includes 405.01. ICD-9 Code Range for Impaired Sensorium now includes 331.1 (pre 2004), 331.11 and no longer includes 315.3.

11/19/2008 Appendix 5 "Glossary of Terms" Hospital Complications: ICD-9 Code Range for Acute renal failure now includes 585 (pre 2006). ICD-9 Code Range for Decubitus ulcer now includes 707.0 (pre 2005), 707.00 through 707.09. ICD-9 Code Range for Deep Vein Thrombosis (DVT)/thrombophlebitis no longer includes 451.1 or 451.8. ICD-9 Code Range for Graft/prosthesis/flap failure no longer includes 996.5. ICD-9 Code Range for Pneumonia no longer includes 480, 482.3, 482.4, 482.8, 484, and 484.3-484.7. ICD-9 Code Range for Wound disruption now includes 998.3 (pre 2004).

11/19/2008 Appendix 5 "Glossary of Terms" Other Terms: Now includes definitions for Foreign Visitor, Intermediate care facility, Home Health Service, Homeless, Hospice, Migrant Worker, Operative and/or essential procedures, Skilled Nursing Care, and Undocumented Citizen.