State of Indiana

Trauma Registry Data Dictionary

2016
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Regarding Injury Severity Score (ISS) and Abbreviated Injury Score (AIS)*

Appendix 1: Auto Calculated Variables Based Upon Existing Data Elements

Variables Auto-Calculated Based on Existing Data Elements

1. Table 1: Modification of the Injury Intentionality CDC Matrix (Cut/Pierce to Overexertion)
2. Table 2: Modification of the Injury Intentionality CDC Matrix (Poisoning to All External Causes)
3. Table 3: Modification of the Barell Injury Diagnosis Matrix, Classification by Body Region (Head and
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Indiana Inclusion/Exclusion Criteria

Definition:
To ensure consistent data collection across the State and with the National Trauma Data Standard, a trauma patient is defined as a patient sustaining a traumatic injury and meeting the following criteria:

The patient must have incurred, **no more than 30 days prior to presentation for initial treatment**, at least one of the following injury diagnostic codes defined as follows:

**International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM):** 800–959.9

**International Classification of Diseases, Tenth Revision (ICD-10-CM):**

- **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.A9 with 7th character modifier of A ONLY** (Traumatic Compartment Syndrome – initial encounter)

Excluding the following isolated injuries:

**ICD-9-CM:**
- 905-909.9 (late effects of injury)
- 910-924.9 (superficial injuries: blisters, contusions, abrasions, Insect bites) 930-939.9 (foreign bodies – ingested, eye, etc.)

**ICD-10-CM:**
- **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 shoulder and upper arm)
- **S50** (Superficial injuries of elbow and forearm)
- **S60** (Superficial injuries of wrist, hand and fingers)
- **S70** (Superficial injuries of hip and thigh)
- **S80** (Superficial injuries of knee and lower leg)
- **S90** (Superficial injuries of 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 MUST INCLUDE ONE OF THE FOLLOWING IN ADDITION TO (ICD-9-CM 800-959.9 OR ICD-**

- Hospital admission as defined by your trauma registry inclusion criteria **OR:**
- Patient transfers via EMS transport (including Air Ambulance) from one hospital to another hospital (even if later discharged from the ED) **OR:**
- Death resulting from the traumatic injury (independent of hospital admission or transfer status)
Indiana Trauma Registry Inclusion Criteria Map

Did the patient sustain one or more traumatic injuries?

Yes


No

No

Yes

Did the patient sustain at least one injury with a diagnostic code outside the range of codes listed below: ICD-9-CM 905-909.9, 910-924.9, 930-939.9? or ICD-10-CM S00, S10, S20, S30, S40, S50, S60, S70, S80, S90?

Yes

Did the injury result in death?

OR

Was the patient transferred to (or from) your hospital via another hospital using EMS or air ambulance (even if later discharged from the ED)?

Yes

Patient included in the Indiana Trauma Registry

OR

Was the patient considered an admission based on your trauma registry inclusion criteria?

No

For ALL 3

Patient not included in the Indiana Trauma Registry
COMMON NULL VALUES

[combo] single-
Data Format choice

Definition
These values are to be used with each of the National Trauma Data Standard Data Elements and Indiana Trauma Data Standard Data Elements described in this document which have been defined to accept the Null Values.

Field Values
1 Not Applicable
2 Not Known / Not Recorded

Additional Information
- For any collection of data to be of value and reliably represent what was intended, a strong commitment must be made to ensure the correct documentation of incomplete data. When data elements associated with the National Trauma Data Standard and Indiana Trauma Data Standard are to be electronically stored in a database or moved from one database to another using XML, the indicated null values should be applied.

- Not Applicable (NA): This null value code applies if, at the 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 "Not Applicable" if a patient self-transports to the hospital.

- Not Known / Not Recorded (NK / NR): This null value applies if, at the time of patient care documentation, information was "Not Known" (to the patient, family, or health care provider) or no value for the element 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 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).
Demographic Information
**MEDICAL RECORD #**

**Data Format**  [text]

---

**Definition**

The hospital's medical record number for the patient.

---

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<th>XSD Element / Domain (Simple Type)</th>
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**Field Values**

- Relevant value for data element

**Additional Information**

- Auto-generated by the hospital
**Account #**

**Data Format**  
[text]

---

**Definition**  
The hospital’s encounter number for the patient that is unique to this visit.

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<td>Max. Constraint:</td>
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**Field Values**  
- Relevant value for data element

**Additional Information**  
- Auto-generated by the hospital
INJURY INCIDENT DATE *

Data Format  [date]

Definition
The date the injury occurred

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Field Values
- Relevant value for data element

Additional Information
- Collected as MM/DD/YYYY
- 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 times) should not be used
- If date of injury is "Not recorded / Not known", the null value is unknown

Data Source
- EMS Run Sheet
- Triage Form / Trauma Flow Sheet
- ED Nurses' Notes
- Other ED Documentation
- History & Physical
- Face Sheet

National Element
- National Element I_01 from the 2016 National Trauma Data Standard
INJURY INCIDENT TIME *

Data Format  [time]

Definition
The time the injury occurred

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Field Values
• Relevant value for data element

Additional Information
• Collected as HHMM
• HHMM should be collected as military time
• 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 times) should not be used
• If time of injury is "Not recorded / Not known", the null value is unknown

Data Source
• EMS Run Sheet
• Triage Form / Trauma Flow Sheet
• ED Nurses' Notes
• Other ED Documentation
• History & Physical
• Face Sheet

National Element
• National Element I_02 from the 2016 National Trauma Data Standard
PATIENT'S LAST NAME

Data Format [text]

Definition
The patient's last name.

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Field Values
- Relevant value for data element

Data Source
- Face Sheet
- EMS Run Sheet
- Billing Sheet / Medical Records Coding Summary Sheet
- Triage Form / Trauma Flow Sheet
- ED Nurses' Notes
- Other ED Documentation
PATIENT'S FIRST NAME
Data Format  [text]

Definition
The patient's first name.

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Field Values

- Relevant value for data element

Data Source

- Face Sheet
- EMS Run Sheet
- Billing Sheet / Medical Records Coding Summary Sheet
- Triage Form / Trauma Flow Sheet
- ED Nurses' Notes
- Other ED Documentation
**PATIENT'S MIDDLE INITIAL**

**Data Format**  
[text]

**Definition**  
The patient's middle initial.

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**Field Values**  
- Relevant value for data element

**Data Source**  
- Face Sheet  
- EMS Run Sheet  
- Billing Sheet / Medical Records Coding Summary Sheet  
- Triage Form / Trauma Flow Sheet  
- ED Nurses' Notes  
- Other ED Documentation
PATIENT'S SOCIAL SECURITY 
Data Format  [number]

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<th>XSD Data Type</th>
<th>xs: number</th>
<th>XSD Element / Domain (Simple Type)</th>
<th>SocialSecurityNumber</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Field Values
- Relevant value for data element

Additional Information
- Collected as ###-##-####

Data Source
- Face Sheet
- EMS Run Sheet
- Billing Sheet / Medical Records Coding Summary Sheet
- ED Nurses' Notes
- Other ED Documentation
DATE OF BIRTH *
Data Format [date]

Definition
The patient's date of birth

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: date</th>
<th>XSD Element / Domain (Simple Type)</th>
<th>DateOfBirth</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td>Min. Constraint: 1,890</td>
<td>Max. Constraint: 2,030</td>
</tr>
</tbody>
</table>

Field Values
- Relevant value for data element

Additional Information
- Collected as MM/DD/YYYY
- If date of birth is equal to the ED/Hospital Arrival date, then the Age & Age Units variables must be completed
- If date of birth is "Not Recorded / Not Known" complete variables: Age and Age Units
- Used to calculate patient age in days, months, or years

Data Source
- ED Admission Form
- Billing Sheet / Medical Records Coding Summary Sheet
- EMS Run Sheet
- Triage Form/Trauma Flow Sheet
- ED Nurses' Notes
- Face Sheet

National Element
- National Element D_07 from the 2016 National Trauma Data Standard
AGE *

Data Format [number]

Definition
The patient's age at the time of injury (best approximation)

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: integer</th>
<th>XSD Element / Domain (Simple Type)</th>
<th>Age</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td>Min. Constraint: 0</td>
<td>Max. Constraint: 120</td>
</tr>
</tbody>
</table>

Field Values
- Relevant value for data element

Additional Information
- Auto-calculated to patient's age in years when "Date of Birth" is entered
- Used to calculate patient age in hours, days, months, or years
- If date of birth is equal to the ED/Hospital Arrival date, then the Age & Age Units variables must be completed
- If date of birth is "Not Recorded / Not Known" complete variables: Age and Age Units
- Must also complete variable: Age Units

Data Source
- ED Admission Form
- Billing Sheet / Medical Records Coding Summary Sheet
- EMS Run Sheet
- Triage Form/Trauma Flow Sheet
- ED Nurses' Notes
- Face Sheet

National Element
- National Element D_08 from the 2016 National Trauma Data Standard
**AGE UNITS**

**Data Format**  [combo] single-choice

**Definition**

The units used to document the patient's age (Years, Months, Days, Hours, Minutes)

**XSD Data Type**  xs: integer

**XSD Element / Domain (Simple Type)**  AgeUnits

**Multiple Entry Configuration**  No

**Accepts Null Value**  Yes, common null values

**Required in XSD**  Yes

**Field Values**

1. Hours  4. Years
2. Days  5. Minutes
3. Months

**Additional Information**

- Used to calculate patient age in hours, days, months, or years
- If date of birth is equal to the ED/Hospital Arrival date, then the Age & Age Units variables must be completed
- If date of birth is "Not Recorded / Not Known" complete variables: Age and Age Units
- Must also complete variable: Age

**Data Source**

- ED Admission Form
- Billing Sheet / Medical Records Coding Summary Sheet
- Triage Form/Trauma Flow Sheet
- EMS Run Sheet
- ED Nurses' Notes
- Face Sheet

**National Element**

- National Element D_09 from the 2016 National Trauma Data Standard
RACE*

Data Format: [combo] multiple-choice

Definition
The patient's race

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: integer</th>
<th>XSD Element / Domain (Simple Type)</th>
<th>Race</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>Yes, max 2</td>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Field Values
1. Asian
2. Native Hawaiian or Other Pacific Islander
3. Other Race
4. American Indian
5. Black or African American
6. White

Additional Information
Patient race should be based upon self-report or identified by a family member.
- Maximum number of races that may be reported for an individual patient is two.

Data Source
- ED Admission Form
- Billing Sheet / Medical Records Coding Summary Sheet
- Triage Form/Trauma Flow Sheet
- EMS Run Sheet
- ED Nurses’ Notes
- Face Sheet
- History & Physical

National Element
- National Element D_10 from the 2016 National Trauma Data Standard
OTHER RACE

Data Format  [text]

Definition
The patient's secondary race (if the first race field is insufficient)

| Multiple Entry Configuration | No | Accepts Null Value | Yes, common null values |

Field Values
- Relevant value for data element

Additional Information
- Patient race should be based upon self-report or identified by a family member
- Only completed if Race is "Other Race"

Data Source
- Billing Sheet / Medical Records Coding Summary Sheet
- ED Admission Form
- EMS Run Sheet
- Triage Form/Trauma Flow Sheet
- ED Nurses’ Notes
ETNICITY*

Data Format: [combo] single-choice

Definition
The patient's ethnicity.

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: integer</th>
<th>XSD Element / Domain (Simple Type)</th>
<th>Ethnicity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Field Values
1. Hispanic or Latino 2. Not Hispanic or Latino

Additional Information
- Patient ethnicity should be based upon self-report or identified by a family member
- The maximum number of ethnicities that may be reported for an individual patient is 1

Data Source
- ED Admission Form
- Billing Sheet / Medical Records Coding Summary Sheet
- Triage Form/Trauma Flow Sheet
- EMS Run Sheet
- ED Nurses’ Notes
- Face Sheet
- History & Physical

National Element
- National Element D_11 from the 2016 National Trauma Data Standard
**GENDER**

Data Format [combo] single-choice

**Definition**
The patient's gender (sex).

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: integer</th>
<th>XSD Element / Domain (Simple Type)</th>
<th>Sex</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Field Values**
1 Male 2 Female

**Additional Information**
- Patients who have undergone a surgical and/or hormonal sex reassignment should be coded using the current assignment

**Data Source**
- ED Admission Form
- Billing Sheet / Medical Records Coding Summary Sheet
- EMS Run Sheet
- Triage Form/Trauma Flow Sheet
- ED Nurses' Notes
- Face Sheet
- History & Physical

**National Element**
- National Element D_12 from the 2016 National Trauma Data Standard
PATIENT'S HOME ADDRESS

Data Format  [text]

Definition
The home street address of the patient's primary residence.

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: string</th>
<th>XSD Element / Domain (Simple Type)</th>
<th>Address</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Field Values
- Relevant value for data element

Data Source
- Face Sheet
- Billing Sheet / Medical Records Coding Summary Sheet
- ED Admission Form
- EMS Run Sheet
- Triage Form/Trauma Flow Sheet
- ED Nurses’ Notes
Address Line 2
Data Format  [text]

Definition
The continuation of the street address of the patient’s primary residence.

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs:string</th>
<th>XSD Element / Domain (Simple Type)</th>
<th>Address Line 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry</td>
<td>No</td>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Configuration</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Required in XSD</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Field Values
- Relevant value for data element

Data Source
- Face Sheet
- Billing Sheet / Medical Records Coding Summary Sheet
- ED Admission Form
- EMS Run Sheet
- Triage Form/Trauma Flow Sheet
- ED Nurses’ Notes
PATIENT'S HOME COUNTRY*

Data Format  [combo] single-choice

<table>
<thead>
<tr>
<th>Definition</th>
<th>The country where the patient resides</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: string</th>
</tr>
</thead>
<tbody>
<tr>
<td>XSD Element / Domain (Simple Type)</td>
<td>HomeCountry</td>
</tr>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
</tr>
<tr>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
</tr>
</tbody>
</table>

Field Values
- Relevant value for data element

Additional Information
- When completed with ZIP code, city, county, and state auto-calculate

Data Source
- Billing Sheet / Medical Records Coding Summary Sheet
- ED Admission Form
- EMS Run Sheet
- Triage Form/Trauma Flow Sheet
- ED Nurses’ Notes
- Face Sheet

National Element
- National Element D_02 from the 2016 National Trauma Data Standard
PATIENT'S HOME ZIP CODE*
Data Format  [text]

Definition
The patient's ZIP/Postal code of primary residence.

<table>
<thead>
<tr>
<th>Data Type</th>
<th>XSD Data Type</th>
<th>XSD Element / Domain (Simple Type)</th>
<th>Multiple Entry Configuration</th>
<th>Accepts Null Value</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>xs: string</td>
<td>HomeZip</td>
<td>No</td>
<td>Yes, common null values</td>
</tr>
</tbody>
</table>

Field Values
- Relevant value for data element

Additional Information
- May require adherence to HIPAA regulations
- Stored as a 5 digit code
- When completed with Country the city, county, and state auto-calculate
- If ZIP code is "Not Applicable", complete variable: Alternate Home Residence
- If ZIP code is "Not Recorded / Not Known", complete variables: Patient's Home State; Patient's Home County; Patient's Home City
- If ZIP code is left blank, Patient's Home City, County, and State defaults to "Not Applicable"

Data Source
- Billing Sheet / Medical Records Coding Summary Sheet
- ED Admission Form
- EMS Run Sheet
- Triage Form/Trauma Flow Sheet
- ED Nurses' Notes
- Face Sheet

National Element
- National Element D_01 from the 2016 National Trauma Data Standard
PATIENT'S HOME CITY*

Data Format  [combo] single-choice

Definition
The patient's city (or township, or village) of residence.

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: string</th>
<th>XSD Element / Domain (Simple Type)</th>
<th>HomeCity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Field Values
- Relevant value for data element (five digit FIPS code)

Additional Information
- Auto-Calculated if ZIP code and Country are completed
- Only complete when ZIP code is "Not Recorded / Not Known"
- Used to calculate FIPS code

Data Source
- ED Admission Form
- Billing Sheet / Medical Records Coding Summary Sheet
- EMS Run Sheet
- Triage Form/Trauma Flow Sheet
- ED Nurses' Notes
- Face Sheet

National Element
- National Element D_05 from the 2016 National Trauma Data Standard
PATIENT’S HOME COUNTY*

Data Format  [combo] single-choice

Definition
The patient's county (or parish) of residence

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: string</th>
<th>XSD Element / Domain (Simple Type)</th>
<th>HomeCounty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Field Values
• Relevant value for data element (three digit FIPS code)

Additional Information
• Auto-Calculated if ZIP code and Country are completed
• Only complete when ZIP code is "Not Recorded / Not Known"
• Used to calculate FIPS code

Data Source
• Billing Sheet / Medical Records Coding Summary Sheet
• ED Admission Form
• EMS Run Sheet
• Triage Form/Trauma Flow Sheet
• ED Nurses’ Notes
• Face Sheet

National Element
• National Element D_04 from the 2016 National Trauma Data Standard
PATIENT’S HOME STATE*

Data Format  [combo] single-choice

Definition
The state (territory, province, or District of Columbia) where the patient resides

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: string</th>
<th>XSD Element / Domain (Simple Type)</th>
<th>HomeState</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Field Values
- Relevant value for data element (two digit numeric FIPS code)

Additional Information
- Auto-Calculated if ZIP code and Country are completed
- Only complete when ZIP code is "Not Recorded / Not Known"
- Used to calculate FIPS code

Data Source
- ED Admission Form
- Billing Sheet / Medical Records Coding Summary Sheet
- EMS Run Sheet
- Triage Form/Trauma Flow Sheet
- ED Nurses’ Notes
- Face Sheet

National Element
- National Element D_03 from the 2016 National Trauma Data Standard
PATIENT’S ALTERNATE RESIDENCE*

Data Format  [combo] single-choice

Definition
Documented the type of patient without a home zip code.

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: integer</th>
</tr>
</thead>
<tbody>
<tr>
<td>XSD Element / Domain (Simple Type)</td>
<td>HomeResidence</td>
</tr>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
</tr>
<tr>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
</tr>
</tbody>
</table>

Field Values
1  Homeless
2  Undocumented Citizen
3  Migrant Worker
4  Foreign Visitor (RETIRED 2016)

Additional Information
• Only complete when ZIP code is "Not Applicable"
• 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

Data Source
• Billing Sheet / Medical Records Coding Summary Sheet
• ED Admission Form
• EMS Run Sheet
• Triage Form/Trauma Flow Sheet
• ED Nurses’ Notes
• Face Sheet

National Element
• National Element D_06 from the 2016 National Trauma Data Standard
**PRIMARY METHOD OF PAYMENT***

**Data Format**  [combo] single-choice

---

**Definition**
Primary source of payment for hospital care.

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: string</th>
</tr>
</thead>
<tbody>
<tr>
<td>XSD Element / Domain (Simple Type)</td>
<td>PrimaryMethodPayment</td>
</tr>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
</tr>
<tr>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
</tbody>
</table>

**Required in XSD** Yes

**Field Values**

<table>
<thead>
<tr>
<th>1</th>
<th>Medicaid</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>Not Billed (for any reason)</td>
</tr>
<tr>
<td>3</td>
<td>Self Pay</td>
</tr>
<tr>
<td>4</td>
<td>Private / Commercial Insurance</td>
</tr>
<tr>
<td>5</td>
<td>(No Fault) Automobile (Retired 2015)</td>
</tr>
<tr>
<td>6</td>
<td>Medicare</td>
</tr>
<tr>
<td>7</td>
<td>Other Government</td>
</tr>
<tr>
<td>8</td>
<td>Workers Compensation (Retired 2015)</td>
</tr>
<tr>
<td>9</td>
<td>Blue Cross / Blue Shield (Retired 2015)</td>
</tr>
<tr>
<td>8</td>
<td>Other</td>
</tr>
</tbody>
</table>

**Additional Information**
No Fault Automobile, Workers Compensation, and Blue Cross/Blue Shield should be captured as Private/Commercial Insurance

**Data Source**
- Billing Sheet / Medical Records Coding Summary Sheet
- Hospital Admission Form
- Face Sheet

**National Element**
- National Element F_01 from the 2016 National Trauma Data Standard
OTHER BILLING SOURCE

Definition

Other billing source that is not specific in the Primary Method of Payment drop-down menu.

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs:</th>
<th>XSD Element / Domain (Simple Type)</th>
<th>otherBillingInfo</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry</td>
<td>string</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Configuration</td>
<td>No</td>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Field Values

- Relevant value for data element

Additional Information

- Only completed if Primary Method of Payment is "Other"

Data Source

- Billing Sheet / Medical Records Coding Summary Sheet
- Hospital Admission Form
- Face Sheet
REIMBURSED CHARGES

Data Format  [number]

Definition
The amount the hospital was reimbursed for services.

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: string</th>
<th>XSD Element / Domain (Simple Type)</th>
<th>reimbursecharges</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Field Values
• Relevant value for data element

Data Source
• Billing Sheet / Medical Records Coding Summary Sheet
• Hospital Admission Form
SECONDARY METHOD OF PAYMENT

Data Format  [combo] single-choice

Definition

Any known secondary source of finance expected to assist in payment of medical bills.

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: string</th>
<th>XSD Element / Domain (Simple Type)</th>
<th>secondarybillinginfo</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Field Values

1. Medicare Supp
2. Managed Care
3. No Fault Automobile
4. Not Billed (for any reason)
5. Medicare
6. Medicaid
7. Private / Commercial Insurance
8. Workers Compensation
9. Other
10. Self Pay
11. Other Government

Data Source

- Billing Sheet / Medical Records Coding Summary Sheet
- Hospital Admission Form
- Face Sheet

TR 2.7
SECONDARY OTHER BILLING SOURCE

Data Format  [text]

Definition
Secondary other billing source that is not specific in the Secondary Method of Payment drop-down menu.

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>XSD Element / Domain (Simple Type)</th>
<th>Required in XSD</th>
</tr>
</thead>
<tbody>
<tr>
<td>xs: string</td>
<td>secondaryotherBillingInfo</td>
<td>Yes</td>
</tr>
</tbody>
</table>

Multiple Entry  No
Accepts Null Value  Yes, common null values

Field Values
- Relevant value for data element

Additional Information
- Only completed if Primary Method of Payment is "Other"

Data Source
- Billing Sheet / Medical Records Coding Summary Sheet
- Hospital Admission Form
- Face Sheet
THIRD METHOD OF PAYMENT

Data Format  [combo] single-choice

Definition
Any known third source of finance expected to assist in payment of medical bills.

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: string</th>
<th>XSD Element / Domain (Simple Type)</th>
<th>ThirdBillingInfo</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Field Values

1 Medicare Supp  
2 Managed Care  
3 No Fault Automobile  
4 Not Billed (for any reason)  
5 Medicare  
6 Medicaid  
7 Private / Commercial Insurance  
8 Workers Compensation  
9 Other  
10 Self Pay  
11 Other Government

Data Source

- Billing Sheet / Medical Records Coding Summary Sheet
- Hospital Admission Form
- Face Sheet
THIRD OTHER BILLING SOURCE

Data Format  [text]

Definition
Third other billing source that is not specific in the Third Method of Payment drop-down menu

<table>
<thead>
<tr>
<th>XSD Type</th>
<th>xs: string</th>
<th>XSD Element / Domain (Simple Type)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
<td>Accepts Null Value</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td>Yes, common null values</td>
</tr>
</tbody>
</table>

Field Values
• Relevant value for data element

Additional Information
• Only completed if Third Method of Payment is "Other"

Data Source
• Billing Sheet / Medical Records Coding Summary Sheet
• Hospital Admission Form
• Face Sheet
BILLED HOSPITAL CHARGES

Definition
The total amount the hospital charged for the patient's care.

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: string</th>
<th>XSD Element / Domain (Simple Type)</th>
<th>BillingCharges</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Field Values
- Relevant value for data element

Data Source
- Billing Sheet / Medical Records Coding Summary Sheet
- Hospital Admission Form
**Work Related Data Format**  [number]

---

**Definition**

Indication of whether the injury occurred during paid employment.

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>XSD Element / Domain (Simple Type)</th>
<th>Required in XSD</th>
</tr>
</thead>
<tbody>
<tr>
<td>xs: string</td>
<td>WorkRelated</td>
<td>Yes</td>
</tr>
</tbody>
</table>

**Multiple Entry Configuration**

No

**Accepts Null Value**

Yes, common null values

---

**Field Values**

- Relevant value for data element

---

**Data Source**

- Billing Sheet / Medical Records Coding Summary Sheet
- Hospital Admission Form
Injury Information
ICD-9 LOCATION E-CODE*

Data Format  [number]

Definition

Place of occurrence external cause code used to describe the place/site/location of the injury event (E 849.X)

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: string</th>
<th>XSD Element / Domain (Simple Type)</th>
<th>LocationEcode</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td>Min. Constraint: 0</td>
<td>Max. Constraint: 9</td>
</tr>
</tbody>
</table>

Field Values

- Relevant ICD-9-CM code value for injury location

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>Home</td>
</tr>
<tr>
<td>1</td>
<td>Farm</td>
</tr>
<tr>
<td>2</td>
<td>Mine</td>
</tr>
<tr>
<td>3</td>
<td>Industry</td>
</tr>
<tr>
<td>4</td>
<td>Recreation</td>
</tr>
<tr>
<td>5</td>
<td>Street</td>
</tr>
<tr>
<td>6</td>
<td>Public Building</td>
</tr>
<tr>
<td>7</td>
<td>Residential Institution</td>
</tr>
<tr>
<td>8</td>
<td>Other</td>
</tr>
<tr>
<td>9</td>
<td>Unspecified</td>
</tr>
</tbody>
</table>

Additional Information

- ICD-9-CM Codes will be accepted for ICD-9 Location E-Code

Data Source

- EMS Run Sheet
- Triage Form/Trauma Flow Sheet
- Billing Sheet / Medical Records Coding Summary Sheet
- ED Nurses’ Notes
- Other ED Documentation
- History & Physical
- Progress Notes

National Element

- National Element I_08 from the 2016 National Trauma Data Standard
INCIDENT LOCATION ZIP/Postal CODE*

Data Format  [text]

Definition
The ZIP/Postal code of the incident location

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: string</th>
<th>XSD Element / Domain (Simple Type)</th>
<th>InjuryZip</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Field Values
- Relevant value for data element

Additional Information
- Stored as a 5 or 9 digit code for US and CA or can be stored in the postal code format of the applicable country
- When completed with Country, the city, county, and state auto-calculate
- If "Not Applicable", or "Not Recorded / Not Known" complete variables: Incident State, Incident County, Incident City and Incident Country.
- May require adherence to HIPAA regulations
- If ZIP code is left blank, Incident City, County, & State defaults to "Not Applicable"

Data Source
- EMS Run Sheet
- Triage Form/Trauma Flow Sheet
- ED Nurses' Notes
- Other ED Documentation

National Element
- National Element I_12 from the 2016 National Trauma Data Standard
INCIDENT COUNTRY*
Data Format  [combo] single-choice

Definition
The country where the patient was found or to which the unit responded (or best approximation)

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: string</th>
<th>XSD Element / Domain (Simple Type)</th>
<th>IncidentCountry</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Field Values
- Relevant value for data element

Additional Information
- Only complete when Incident Location Zip Code is "Not Applicable" or "Not Recorded / Not Known"
- When completed with Zip Code, the city, county, and state auto-calculate

Data Source
- EMS Run Sheet
- Triage Form/Trauma Flow Sheet
- ED Nurses’ Notes
- Other ED Documentation

National Element
- National Element I_13 from the 2016 National Trauma Data Standard
INCI DENT CITY*

Data Format  [combo] single-choice

Definition
The city or township where the patient was found or to which the unit responded (or best approximation)

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: string</th>
<th>XSD Element / Domain (Simple Type)</th>
<th>IncidentCity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Field Values
• Relevant value for data element (five digit FIPS code)

Additional Information
• Only complete when Incident Location Zip Code is "Not Applicable", or "Not Recorded / Not Known"
• Auto-Calculated if ZIP code and Country are completed
• Used to calculate FIPS code
• If incident location resides outside of formal city boundaries, report nearest city/town

Data Source
• EMS Run Sheet
• Triage Form/Trauma Flow Sheet
• ED Nurses’ Notes
• Other ED Documentation

National Element
• National Element I_16 from the 2016 National Trauma Data Standard
INCIDENT COUNTY*

Data Format: [combo] single-choice

Definition
The county or parish where the patient was found or to which the unit responded (or best approximation)

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: string</th>
<th>XSD Element / Domain (Simple Type)</th>
<th>IncidentCounty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Field Values
- Relevant value for data element (three digit FIPS code)

Additional Information
- Only complete when Incident Location Zip Code is "Not Applicable", or "Not Recorded / Not Known"
- Auto-Calculated if ZIP code and Country are completed
- Used to calculate FIPS code

Data Source
- EMS Run Sheet
- Triage Form/Trauma Flow Sheet
- ED Nurses’ Notes
- Other ED Documentation

National Element
- National Element I_15 from the 2016 National Trauma Data Standard
INCIDENT STATE*

Data Format  [number]

Definition

The state, territory, or province where the patient was found or to which the unit responded (or best approximation)

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: string</th>
<th>XSD Element / Domain (Simple Type)</th>
<th>IncidentState</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Field Values

- Relevant value for data element (two digit FIPS code)

Additional Information

- Only complete when Incident Location Zip Code is "Not Applicable", or "Not Recorded / Not Known"
- Auto-Calculated if ZIP code and Country are completed
- Only complete when Incident Location Zip Code is "Not Applicable", or "Not Recorded / Not Known"

Data Source

- EMS Run Sheet
- Triage Form/Trauma Flow Sheet
- ED Nurses’ Notes
- Other ED Documentation

National Element

- National Element I_06 from the 2016 National Trauma Data Standard
ICD-10 LOCATION E-CODE*

Data Format [number]

Definition
Place of occurrence external cause code used to describe the place/site/location of the injury event (Y92.x)

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: string</th>
</tr>
</thead>
<tbody>
<tr>
<td>XSD Element / Domain (Simple Type)</td>
<td>icd_location_id</td>
</tr>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
</tr>
<tr>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
</tbody>
</table>

Field Values
• Relevant ICD-10-CM code value for injury location

Additional Information
• Only ICD-10-CM codes will be accepted for ICD-10 Location E-Code

Data Source
• EMS Run Sheet
• Triage Form/Trauma Flow Sheet
• Billing Sheet / Medical Records Coding Summary Sheet
• ED Nurses' Notes
• Other ED Documentation
• History & Physical
• Progress Notes

National Element
• National Element I_09 from the 2016 National Trauma Data Standard
(Complaint) Supplemental Cause of Injury

Data Format  [combo] single-choice

Definition
The event that occurred to cause injury to the patient.

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: integer</th>
<th>XSD Element / Domain (Simple Type)</th>
<th>SupplementalCauseofinjury</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Field Values

1. Accident
2. Aircraft
3. All-Terrain Vehicle
4. Assault
5. Bicycle Crash
6. Boating
7. Burn
8. Child Abuse
9. Cut/Pierce
10. Dirt Bike
11. Diving
12. Domestic Abuse
13. Drowning
14. Electrical Injury
15. Fall
16. Farm/Heavy Equipment/Machine
17. Fire
18. Fireworks Related
19. Frostbite
20. Gunshot Wound
21. Hanging
22. Heat Related
23. Industrial Incident
24. Injured by Animal
25. Jet Ski
26. Lightning
27. Motor Pedestrian Crash
28. Motor Vehicle Crash
29. Motorcycle Crash
30. Police
31. Rape
32. Recreational
33. Rollerblading
34. Rollerskating
35. Scooter
36. Skateboarding
37. Skydiving
38. Sledding
39. Snowboarding
40. Snowmobile
41. Sport Related
42. Stab Wound
43. Struck By / Against
44. Tornado
45. Train
46. Waterskiing

Data Source
- EMS Run Sheet
- Triage Form/Trauma Flow Sheet
- Billing Sheet / Medical Records Coding Summary Sheet
- ED Nurses' Notes
- Other ED Documentation
INJURY DESCRIPTION

Data Format: [text]

Definition
The description of the injury. This can be any supporting or supplemental data about the injury, other circumstances, etc.

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: string</th>
<th>XSD Element / Domain (Simple Type)</th>
<th>InjuryDescription</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Config</td>
<td>No</td>
<td>Accepts Null</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td>Value</td>
<td></td>
</tr>
</tbody>
</table>

Field Values
- Relevant value for data element

Additional Information
- The Injury Description field now allows up to 2,000 characters

Data Source
- EMS Run Sheet
- History & Physical Documentation
- Triage Form/Trauma Flow Sheet
- ED Nurses' Notes
- Other ED Documentation
ICD-9 PRIMARY E-CODE*  
**Data Format**  [number]  

### Definition
External cause code used to describe the mechanism (or external factor) that caused the injury event

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: string</th>
<th>XSD Element / Domain (Simple Type)</th>
<th>PrimaryEcode</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Field Values
- Relevant ICD-9-CM code value for injury event

### Additional Information
- The Primary external cause code (E-Code) should describe the main reason a patient is admitted to the hospital
- E-codes are used to auto-generate two calculated fields: Trauma Type: (Blunt, Penetrating, Burn) and Intentionality (based upon CDC matrix)
- ICD-9-CM Codes will be accepted for this data element. Activity codes should not be reported in this field.

### Data Source
- EMS Run Sheet
- Triage Form/Trauma Flow Sheet
- Billing Sheet / Medical Records Coding Summary Sheet
- ED Nurses' Notes
- Other ED Documentation
- History & Physical
- Progress Notes

### National Element
- National Element I_06 from the 2016 National Trauma Data Standard
ICD-9 ADDITIONAL E-CODE*

**Data Format**  [number]

---

**Definition**
Additional external cause code used in conjunction with the primary E-Code if multiple external cause codes are required to describe the injury event.

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: string</th>
<th>XSD Element / Domain (Simple Type)</th>
<th>AdditionalECode</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Field Values**
- Relevant ICD-9-CM code value for injury event

**Additional Information**
- External cause codes (E-Codes) are used to auto-generate two calculated fields: Trauma Type (Blunt, Penetrating, Burn) and Intentionality (based upon CDC matrix).
- Only ICD-9-CM Codes will be accepted for additional ICD-9 E-Code.
- Activity codes should not be reported in this field.
- Refer to Appendix 3: National Glossary of Terms for multiple cause coding hierarchy.

**Data Source**
- EMS Run Sheet
- Triage Form/Trauma Flow Sheet
- Billing Sheet / Medical Records Coding Summary Sheet
- ED Nurses’ Notes
- Other ED Documentation
- History & Physical
- Progress Notes

**National Element**
- National Element I_11 from the 2016 National Trauma Data Standard
ICD-10 PRIMARY E-CODE*

Definition
External cause code used to describe the mechanism (or external factor) that caused the injury event.

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: string</th>
<th>XSD Element / Domain (Simple Type)</th>
<th>PrimaryECodeIcd10</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Field Values
- Relevant ICD-10-CM code value for injury event

Additional Information
- The Primary external cause code (E-Code) should describe the main reason a patient is admitted to the hospital
- E-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.

Data Source
- EMS Run Sheet
- Triage Form/Trauma Flow Sheet
- Billing Sheet / Medical Records Coding Summary Sheet
- ED Nurses' Notes
- Other ED Documentation
- History & Physical
- Progress Notes

National Element
- National Element I_07 from the 2016 National Trauma Data Standard
ICD-10 ADDITIONAL E-CODE

Data Format: [number]

Definition
Additional external cause code used in conjunction with the primary E-Code if multiple external cause codes are required to describe the injury event.

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: string</th>
<th>XSD Element / Domain (Simple Type)</th>
<th>AdditionalECodeIcd10</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Field Values
- Relevant ICD-10-CM code value for injury event

Additional Information
- External cause codes (E-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.
- Refer to Appendix 3: National Glossary of Terms for multiple cause coding hierarchy

Data Source
- EMS Run Sheet
- Triage Form/Trauma Flow Sheet
- Billing Sheet / Medical Records Coding Summary Sheet
- ED Nurses’ Notes
- Other ED Documentation
- History & Physical
- Progress Notes

National Element
- National Element I_11 from the 2016 National Trauma Data Standard
ICD-10 INTENTIONALITY
Data Format  [number]

Definition

Intentionality.

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: integer</th>
<th>XSD Element / Domain (Simple Type)</th>
<th>Intentionality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Field Values

- Relevant ICD-10-CM code value for intentionality.
  1 Assault 4 Undetermined
  2 Other 5 Unintentional
  3 Self-Inflicted
ICD-10 TRAUMA TYPE

Data Format  [number]

Definition

Type of Injury.

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: integer</th>
<th>XSD Element / Domain (Simple Type)</th>
<th>TraumaType</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Field Values

- Relevant ICD-10-CM code value for intentionality.
  1. Blunt
  2. Burn
  3. Other
  4. Penetrating
REPORT OF PHYSICAL ABUSE*

Data Format  [combo] single-choice

Definition
A report of suspected physical abuse was made to law enforcement and/or protective services.

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: integer</th>
<th>XSD Element / Domain (Simple Type)</th>
<th>AbuseReport</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Field Values
1  Yes  2  No

Additional Information
- This includes, but is not limited to, a report of child, elder, spouse, or intimate partner physical abuse

Data Source
- EMS Run Sheet
- ED Records
- H&P
- Nursing Notes
- Case Manager / Social Services' Notes
- Physician Discharge Summary
- Progress Notes
- History & Physical

National Element
- National Element I_20 from the 2016 National Trauma Data Standard
INVESTIGATION OF PHYSICAL ABUSE*

Definition
An investigation by law enforcement and/or protective services was initiated because of the suspected physical abuse.

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: integer</th>
<th>XSD Element / Domain (Simple Type)</th>
<th>AbuseInvestigation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
</tbody>
</table>

Required in XSD Yes

Field Values
1 Yes 2 No

Additional Information
- This includes, but is not limited to, a report of child, elder, spouse, or intimate partner physical abuse
- Only complete when Report of Physical Abuse is "Yes"
- The null value "Not Applicable" should be used for patient where Report of Physical Abuse is "No"

Data Source
- EMS Run Sheet
- ED Records
- Case Manager / Social Services' Notes
- H&P
- Nursing Notes
- Physician Discharge Summary
- Progress Notes
- History & Physical

National Element
- National Element I_21 from the 2016 National Trauma Data Standard
CAREGIVER AT DISCHARGE*

Definition
The patient was discharged to a caregiver different than the caregiver at admission due to suspected physical abuse

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: integer</th>
<th>XSD Element / Domain (Simple Type)</th>
<th>CaregiverAtDischarge</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Field Values
1 Yes 2 No

Additional Information
- Only complete when Report of Physical Abuse is "Yes"
- Only complete for minors as determined by state/local definition, excluding emancipated minors
- The null value "Not Applicable" should be used for patient where Report of Physical Abuse is "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.

Data Source
- Case Manager / Social Services’ Notes
- Physician Discharge Summary
- Nursing Notes
- Progress Notes

National Element
- National Element I_22 from the 2016 National Trauma Data Standard
AIRBAG PRESENT*

Data Format [combo] single-choice

Definition
Airbag in use by the patient at the time of the injury

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: integer</th>
<th>XSD Element / Domain (Simple Type)</th>
<th>ProtectiveDevice</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Field Values
1  Yes  2  No

Additional Information
- Evidence of the use of safety equipment may be reported or observed
- If airbag is present, complete variables: Airbag not deployed, airbag deployed side, airbag deployed front, airbag deployed other

Data Source
- EMS Run Sheet
- Triage Form/Trauma Flow Sheet
- ED Nurses’ Notes
- Other ED Documentation
- History & Physical

National Element
- National Element I_17 from the 2016 National Trauma Data Standard
AIRBAG NOT DEPLOYED*

Data Format  [combo] single-choice

Definition
Indication of no airbag deployment during a motor vehicle crash.

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: integer</th>
<th>XSD Element / Domain (Simple Type)</th>
<th>AirbagDeployment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Field Values
1  Yes  2  No

Data Source
- EMS Run Sheet
- Triage Form/Trauma Flow Sheet
- ED Nurses' Notes
- Other ED Documentation
- History & Physical

Additional Information
- Only completed when 'Airbag Present' is marked "Yes"
- Evidence of the use of airbag deployment may be reported or observed

National Element
- National Element I_19 from the 2016 National Trauma Data Standard
**AIRBAG DEPLOYED SIDE**

**Data Format**  [combo] single-choice

---

**Definition**
Indication of airbag deployment on either side of the vehicle during a motor vehicle crash.

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: integer</th>
<th>XSD Element / Domain (Simple Type)</th>
<th>AirbagDeployment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Field Values**

<table>
<thead>
<tr>
<th></th>
<th>1</th>
<th>Yes</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>No</td>
<td></td>
</tr>
</tbody>
</table>

**Additional Information**
- Evidence of the use of airbag deployment may be reported or observed
- Only completed when 'Airbag Present' is marked "Yes"

**Data Source**
- EMS Run Sheet
- Triage Form/Trauma Flow Sheet
- ED Nurses' Notes
- Other ED Documentation
- History & Physical

**National Element**
- National Element I_19 from the 2016 National Trauma Data Standard
**AIRBAG DEPLOYED FRONT**

*National & State Element*  
TR 29.21

**Data Format**  
[combo] single-choice

---

**Definition**

Indication of airbag deployment in the front of the vehicle during a motor vehicle crash.

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: integer</th>
</tr>
</thead>
<tbody>
<tr>
<td>XSD Element / Domain (Simple Type)</td>
<td>AirbagDeployment</td>
</tr>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
</tr>
<tr>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
</tr>
</tbody>
</table>

---

**Field Values**

1  Yes  
2  No

---

**Additional Information**

- "Airbag Deployed Front" should be used for patients with documented airbag deployments, but are not further specified
- Evidence of the use of airbag deployment may be reported or observed
- Only completed when 'Airbag Present' is marked "Yes"

---

**Data Source**

- EMS Run Sheet
- Triage Form/Trauma Flow Sheet
- ED Nurses’ Notes
- Other ED Documentation
- History & Physical

---

**National Element**

- National Element I_19 from the 2016 National Trauma Data Standard
AIRBAG DEPLOYED OTHER*

Data Format  [combo] single-choice

Definition
Indication of airbag deployment of the knee, airbelt, curtain, etc. during a motor vehicle crash.

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: integer</th>
<th>XSD Element / Domain (Simple Type)</th>
<th>AirbagDeployment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Field Values
1  Yes  2  No

Additional Information
- Evidence of the use of airbag deployment may be reported or observed
- Only completed when 'Airbag Present' is marked "Yes"

Data Source
- EMS Run Sheet
- Triage Form/Trauma Flow Sheet
- ED Nurses' Notes
- Other ED Documentation
- History & Physical

National Element
- National Element I_19 from the 2016 National Trauma Data Standard
CHILD RESTRAINT*

Data Format  [combo] single-choice

Definition
Protective child restraint devices used by patient at the time of injury.

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: integer</th>
<th>XSD Element / Domain (Simple Type)</th>
<th>ProtectiveDevice</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Field Values
1  Yes   2  No

Additional Information
- Evidence of the use of safety equipment may be reported or observed
- If child restraint is present, complete variables: Infant car seat, child car seat, child booster seat

Data Source
- EMS Run Sheet
- Triage Form/Trauma Flow Sheet
- ED Nurses' Notes
- Other ED Documentation
- History & Physical

National Element
- National Element I_17 from the 2016 National Trauma Data Standard
INFANT CAR SEAT*

Data Format: [combo] single-choice

**Definition**
Infant Car Seat in use by the patient at the time of the injury.

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: integer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
</tr>
</tbody>
</table>

**XSD Element / Domain (Simple Type)**: ChildSpecificRestraint

**Accepts Null Value**: Yes, common null values

**Field Values**
1 Yes 2 No

**Additional Information**
- Evidence of the use of child restraint may be reported or observed
- Only completed when 'Child Restraint' is marked "Yes"

**Data Source**
- EMS Run Sheet
- Triage Form/Trauma Flow Sheet
- ED Nurses' Notes
- Other ED Documentation
- History & Physical

**National Element**
- National Element I_18 from the 2016 National Trauma Data Standard
CHILD CAR SEAT*

Data Format  [combo] single-choice

Definition
Child Car Seat in use by the patient at the time of injury.

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: integer</th>
<th>XSD Element / Domain (Simple Type)</th>
<th>ChildSpecificRestraint</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Field Values
1  Yes  2  No

Additional Information
- Evidence of the use of child restraint may be reported or observed
- Only completed when 'Child Restraint' is marked "Yes"

Data Source
- EMS Run Sheet
- Triage Form/Trauma Flow Sheet
- ED Nurses' Notes
- Other ED Documentation
- History & Physical

National Element
- National Element I_18 from the 2016 National Trauma Data Standard
CHILD BOOSTER SEAT*

Data Format  [combo] single-choice

Definition
Child Booster Seat in use by the patient at the time of injury.

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: integer</th>
<th>XSD Element / Domain (Simple Type)</th>
<th>ChildSpecificRestraint</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Field Values

1  Yes  2  No

Additional Information
• Evidence of the use of child restraint may be reported or observed
• Only completed when 'Child Restraint' is marked "Yes"

Data Source
• EMS Run Sheet
• Triage Form/Trauma Flow Sheet
• ED Nurses' Notes
• Other ED Documentation
• History & Physical

National Element
• National Element I_18 from the 2016 National Trauma Data Standard
THREE POINT RESTRAINT*

Data Format  [combo] single-choice

Definition
Three Point Restraint in use or worn by the patient at the time of the injury.

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: integer</th>
<th>XSD Element / Domain (Simple Type)</th>
<th>ProtectiveDevice</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Field Values

1  Yes
2  No

Additional Information

• Evidence of the use of safety equipment may be reported or observed
• If documentation indicates "Three Point Restraint", "Lap Belt" and "Shoulder Belt" are automatically selected, as well

Data Source

• EMS Run Sheet
• Triage Form/Trauma Flow Sheet
• ED Nurses' Notes
• Other ED Documentation
• History & Physical

National Element

• National Element I_17 from the 2016 National Trauma Data Standard
LAP BELT*

Data Format [combo] single-choice

Definition
Lap Belt in use or worn by the patient at the time of the injury.

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: integer</th>
<th>XSD Element / Domain (Simple Type)</th>
<th>ProtectiveDevice</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Field Values
1 Yes 2 No

Additional Information
- 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 documentation indicates "Three Point Restraint", "Lap Belt" and "Shoulder Belt" are automatically selected, as well

Data Source
- EMS Run Sheet
- Triage Form/Trauma Flow Sheet
- ED Nurses' Notes
- Other ED Documentation
- History & Physical

National Element
- National Element I_17 from the 2016 National Trauma Data Standard
SHOULDER BELT*

Data Format  [combo] single-choice

Definition

Shoulder Belt in use or worn by the patient at the time of the injury.

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: integer</th>
<th>XSD Element / Domain (Simple Type)</th>
<th>ProtectiveDevice</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Field Values

1  Yes
2  No

Additional Information

- Evidence of the use of safety equipment may be reported or observed
- If documentation indicates "Three Point Restraint", "Lap Belt" and "Shoulder Belt" are automatically selected, as well

Data Source

- EMS Run Sheet
- Triage Form/Trauma Flow Sheet
- ED Nurses’ Notes
- Other ED Documentation
- History & Physical

National Element

- National Element I_17 from the 2016 National Trauma Data Standard
PERSONAL FLOATATION*

Data Format  [combo] single-choice

---

**Definition**

Personal Floatation Device in use or worn by the patient at the time of the injury.

---

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: integer</th>
<th>XSD Element / Domain (Simple Type)</th>
<th>ProtectiveDevice</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Field Values**

1  Yes  
2  No

**Additional Information**

- Evidence of the use of safety equipment may be reported or observed

**Data Source**

- EMS Run Sheet
- Triage Form/Trauma Flow Sheet
- ED Nurses' Notes
- Other ED Documentation
- History & Physical

**National Element**

- National Element I_17 from the 2016 National Trauma Data Standard
EYE PROTECTION*

Data Format  [combo] single-choice

**Definition**
Eye Protection in use or worn by the patient at the time of the injury.

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: integer</th>
<th>XSD Element / Domain (Simple Type)</th>
<th>ProtectiveDevice</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Config</td>
<td>No</td>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Field Values**
1  Yes
2  No

**Additional Information**
- Evidence of the use of safety equipment may be reported or observed

**Data Source**
- EMS Run Sheet
- Triage Form/Trauma Flow Sheet
- ED Nurses' Notes
- Other ED Documentation
- History & Physical

**National Element**
- National Element I_17 from the 2016 National Trauma Data Standard
**HELMET**

**Data Format**  [combo] single-choice

**Definition**
Helmet (e.g., bicycle, skiing, motorcycle) in use or worn by the patient at the time of the injury.

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: integer</th>
<th>XSD Element / Domain (Simple Type)</th>
<th>ProtectiveDevice</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Field Values**
1  Yes  2  No

**Additional Information**
- Evidence of the use of safety equipment may be reported or observed

**Data Source**
- EMS Run Sheet
- Triage Form/Trauma Flow Sheet
- ED Nurses' Notes
- Other ED Documentation
- History & Physical

**National Element**
- National Element I_17 from the 2016 National Trauma Data Standard
PROTECTIVE CLOTHING*

Data Format  [combo] single-choice

Definition
Protective clothing (e.g., padded leather pants) in use or worn by the patient at the time of the injury.

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: integer</th>
</tr>
</thead>
<tbody>
<tr>
<td>XSD Element / Domain (Simple Type)</td>
<td>ProtectiveDevice</td>
</tr>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
</tr>
<tr>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
</tr>
</tbody>
</table>

Field Values
1  Yes  2  No

Additional Information
• Evidence of the use of safety equipment may be reported or observed

Data Source
• EMS Run Sheet
• Triage Form/Trauma Flow Sheet
• ED Nurses’ Notes
• Other ED Documentation
• History & Physical

National Element
• National Element 1_17 from the 2016 National Trauma Data Standard
PROTECTIVE NON-CLOTHING GEAR*

Definition
Protective non-clothing gear (e.g., shin guard) in use or worn by the patient at the time of the injury.

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs:integer</th>
<th>XSD Element / Domain (Simple Type)</th>
<th>ProtectiveDevice</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Field Values

<table>
<thead>
<tr>
<th></th>
<th>1</th>
<th>Yes</th>
<th>2</th>
<th>No</th>
</tr>
</thead>
</table>

Additional Information

- Evidence of the use of safety equipment may be reported or observed

Data Source

- EMS Run Sheet
- Triage Form/Trauma Flow Sheet
- ED Nurses' Notes
- Other ED Documentation
- History & Physical

National Element

- National Element I_17 from the 2016 National Trauma Data Standard
OTHER*

Data Format  [combo] single-choice

Definition
Other protective equipment in use or worn by the patient at the time of the injury.

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: integer</th>
<th>XSD Element / Domain (Simple Type)</th>
<th>ProtectiveDevice</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Field Values
1  Yes  2  No

Additional Information
- Evidence of the use of safety equipment may be reported or observed
- If "Yes" is selected, please describe in the box labeled "Safety Description"

Data Source
- EMS Run Sheet
- Triage Form/Trauma Flow Sheet
- ED Nurses' Notes
- Other ED Documentation
- History & Physical

National Element
- National Element I_17 from the 2016 National Trauma Data Standard
SAFETY (Equipment) DESCRIPTION

Data Format: [text]

Definition
Other protective equipment in use or worn by the patient at the time of the injury

| Multiple Entry Configuration | No | Accepts Null Value | Yes, common null values |

Field Values
- Relevant value for data element

Additional Information
- Evidence of the use of safety equipment may be reported or observed
- Only completed if Other is "Yes"

Data Source
- EMS Run Sheet
- Triage Form/Trauma Flow Sheet
- ED Nurses' Notes
- Other ED Documentation

Uses
- Used to better define injury causes and characterize injury patterns
Pre-Hospital Information
ARRIVED FROM
Data Format   [combo] single-choice

Definition
Location the patient arrived from.

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: integer</th>
<th>XSD Element / Domain (Simple Type)</th>
<th>TransferFromType</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Field Values
1 Clinic / MD Office  4 Nursing Home
2 Home  5 Referring Hospital
3 Jail  6 Scene

Additional Information
• Used to auto-generate an additional calculated field: Inter-Facility Transfer
  (patient transferred from another acute care facility to your facility)

Data Source
• EMS Run Sheet
• 911 or Dispatch Center
• Other ED Documentation
**Definition**

The mode of transport delivering the patient to your hospital.

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: integer</th>
<th>XSD Element / Domain (Simple Type)</th>
<th>TransportMode</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Field Values**

1. Advanced Life Support (ALS)
2. Basic Life Support (BLS)
3. Helicopter Ambulance
4. Private/Public Vehicle/Walk-In
5. Police
6. Other

**Data Source**

- EMS Run Sheet
- 911 or Dispatch Center

**Additional Information**

- Used to auto-generate an additional calculated field: Inter-Facility Transfer
  (patient transferred from another acute care facility to your facility)

**National Element**

- National Element P_07 from the 2016 National Trauma Data Standard
MASS CASUALTY INCIDENT
Data Format  [combo] single-choice

Definition
Indicator if this event would be considered a mass casualty incident (overwhelmed existing EMS resources).

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: integer</th>
<th>XSD Element / Domain (Simple Type)</th>
<th>MassCasualtyIncident</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Field Values
1  No
2  Yes

Data Source
• EMS Run Sheet
• Trauma Flow Sheet
• 911 or Dispatch Center
• Other ED Documentation
PREGNANCY

Data Format  [combo] single-choice

Definition  
Indication of the possibility that the patient is currently pregnant.

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: integer</th>
<th>XSD Element / Domain (Simple Type)</th>
<th>Pregnancy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Field Values

1  No

2  Yes

Data Source

- EMS Run Sheet
- 911 or Dispatch Center
- Other ED Documentation
Estimated Body Weight
Data Format [combo] single-choice

Definition
Measured or estimated baseline weight (in kilograms).

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: string</th>
<th>XSD Element / Domain (Simple Type)</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Field Values
• Relevant value for data element

Data Source
• EMS Run Sheet
• 911 or Dispatch Center
• Other ED Documentation
**LAW ENFORCEMENT / CRASH REPORT NUMBER**

**Data Format**  [text]

---

**Definition**

The unique number associated with the law enforcement or crash report.

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: string</th>
</tr>
</thead>
<tbody>
<tr>
<td>XSD Element / Domain (Simple Type)</td>
<td>LawEnforcementCrashReportNumber</td>
</tr>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
</tr>
<tr>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
</tbody>
</table>

**Field Values**

- Relevant value for data element

**Data Source**

- EMS Run Sheet
- Other ED Documentation
VEHICULAR INJURY INDICATORS

Data Format  [combo] single-choice

Definition
The kind of risk factor predictors associated with the vehicle involved in the incident.

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: integer</th>
<th>XSD Element / Domain (Simple Type)</th>
<th>VehicleInjury</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Field Values
1. Dash Deformity
2. DOA Same Vehicle
3. Ejection
4. Fire
5. Rollover / Roof Deformity
6. Side Post Deformity
7. Space Intrusion > 1 Foot
8. Steering Wheel Deformity
9. Windshield Spider / Star

Data Source
- EMS Run Sheet
- Other ED Documentation
AREA OF THE VEHICLE IMPACTED (by the Collision)

Data Format  [combo] single-choice

**Definition**

The area or location of initial impact on the vehicle involved in the incident.

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: integer</th>
<th>XSD Element / Domain (Simple Type)</th>
<th>VehicleImpact</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Field Values**

1. Center Front
2. Center Rear
3. Left Front
4. Left Rear
5. Left Side
6. Right Front
7. Right Rear
8. Right Side
9. Roll Over

**Data Source**

- EMS Run Sheet
- Other ED Documentation
SEAT ROW LOCATION (of Patient in Vehicle)

Data Format  [number]

Definition  
The seat row location of the patient in vehicle at the time of the crash with the front seat numbered as 1.

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: string</th>
<th>XSD Element / Domain (Simple Type)</th>
<th>SeatRowLocation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Field Values  
- Relevant value for data element

Data Source  
- EMS Run Sheet
- Other ED Documentation
POSITION OF PATIENT (in the seat of the vehicle)

Data Format  [combo] single-choice

Definition
The seat position of the patient in the vehicle at the time of the crash.

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: integer</th>
<th>XSD Element / Domain (Simple Type)</th>
<th>PositionPatientSeat</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Field Values
1  Driver
2  Left (Non-driver)
3  Middle
4  Other
5  Right

Data Source
- EMS Run Sheet
- Other ED Documentation
HEIGHT OF FALL
Data Format  [number]

Definition  The distance in feet the patient fell, measured from the lowest point to the ground.

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: string</th>
<th>XSD Element / Domain (Simple Type)</th>
<th>HeightofFall</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Field Values
- Relevant value for data element

Data Source
- EMS Run Sheet
- Other ED Documentation
National & State Element

VEHICULAR, PEDESTRIAN, OTHER RISK INJURY*

Data Format [combo] multi-choice

Definition
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 sheet.

<table>
<thead>
<tr>
<th>XSD Data</th>
<th>XSD Element / Domain (Simple)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>xs: integer</td>
</tr>
<tr>
<td>Multiple Entry Configuration</td>
<td>VehicularPedestrianOther</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
</tr>
<tr>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
</tbody>
</table>

Field Values
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 vehicle
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 the anticoagulants and bleeding disorders
11. Pregnancy > 20 weeks
12. EMS provider judgment
13. Burns
14. Burns with Trauma

Additional Information
- 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 the EMS Run Sheet 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 on, as an identical response choice the EMS Run Sheet or if the EMS Run Sheet is not available.

- Check all that apply

**Data Source**
- EMS Run Sheet

**National Element**
- National Element P_19 from the 2016 National Trauma Data Standard
**BARRIERS TO PATIENT CARE**

**Data Format** [combo] multiple-choice

---

**Definition**

Indication of whether or not there were any patient specific barriers to serving the patient at the scene.

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: integer</th>
<th>XSD Element / Domain (Simple Type)</th>
<th>BarrierPatientCare</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>Yes</td>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Field Values**

```
  Developmentally
  1 Impaired
      Physically
  2 Impaired
  3 Speech Impaired
  4 Impaired
  5 None
      Unattended or
      Unsupervised
      (including minors)
  6 Physical
  7 Restraint
  8 Unconscious
```

**Data Source**

- EMS Run Sheet
- Other ED Documentation
EMS RUN NUMBER

Data Format  [text]

Definition
The run number assigned and entered on the run sheet of the primary emergency service, specific to the individual run/patient.

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: string</th>
<th>Element / Domain (Simple Type)</th>
<th>EMS_Incident_Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Field Values
- Relevant value for data element

Data Source
- EMS Run Sheet
- Other ED Documentation
EMS Patient Care Report (PCR) Number

Data Format  [text]

Definition
The run number assigned and entered on the run sheet of the primary emergency service, specific to the individual run/patient

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: string</th>
<th>Element / Domain (Simple Type)</th>
<th>PCR_Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Field Values
- Relevant value for data element

Data Source
- EMS Run Sheet
- Other ED Documentation
NAME OF EMS SERVICE

Definition
The name of the EMS service that transferred the patient.

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: string</th>
<th>Element / Domain (Simple Type)</th>
<th>ServiceNumber</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Field Values
- Relevant value for data element

Data Source
- EMS Run Sheet
- Other ED Documentation
EMS DISPATCH DATE*

Data Format [date]

Definition
The date the unit *transporting to your hospital* was notified by dispatch
- 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.

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: date</th>
<th>XSD Element / Domain (Simple Type)</th>
<th>EMSNotifyDate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td>Min. Constraint: 1990</td>
<td>Max. Constraint: 2030</td>
</tr>
</tbody>
</table>

Field Values
- Relevant value for data element

Additional Information
- Collected as MM/DD/YYYY
- Used to auto-generate an additional calculated field: Total EMS Time (elapsed time from EMS dispatch to hospital arrival)

Data Source
- EMS Run Sheet
- 911 or Dispatch Center

National Element
- National Element P_01 from the 2016 National Trauma Data Standard
EMS DISPATCH TIME*
Data Format [time]

Definition
The time the unit transporting to your hospital was notified by dispatch
- 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.

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: time</th>
<th>XSD Element / Domain (Simple Type)</th>
<th>EMSNotifyTime</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td>Min. Constraint: 00:00</td>
<td>Max. Constraint: 23:59</td>
</tr>
</tbody>
</table>

Field Values
- Relevant value for data element

Additional Information
- Collected as HHMM
- HHMM should be collected as military time
- Used to auto-generate an additional calculated field: Total EMS Time (elapsed time from EMS dispatch to hospital arrival)

Data Source
- EMS Run Sheet
- 911 or Dispatch Center

National Element
- National Element P_02 from the 2016 National Trauma Data Standard
**Definition**

The time the unit *transporting to your hospital* arrived on the scene / transferring facility

- 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 as 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 as date/time when the vehicle stopped moving).

**Field Values**

- Relevant value for data element

**Additional Information**

- Collected as HHMM
- Scene may be defined as "initial hospital" for inter-facility transfers
- HHMM should be collected as military time
- Used to auto-generate two additional calculated fields: Total EMS Response Time (elapsed time from EMS dispatch to scene arrival) & Total EMS Scene Time (elapsed time from EMS scene arrival to scene departure)

**Data Source**

- EMS Run Sheet
- 911 or Dispatch Center

**National Element**

- National Element P_04 from the 2016 National Trauma Data Standard
**TR 9.3**

(EMS Unit) **SCENE DEPARTURE TIME**

**Data Format**  [time]

**Definition**

The time the unit *transporting to your hospital* left the scene.

- 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 as 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 as date/time when the vehicle started moving).

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: time</th>
<th>XSD Element / Domain (Simple Type)</th>
<th>EMSLeftTime</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td>Min. Constraint: 00:00</td>
<td>Max. Constraint: 23:59</td>
</tr>
</tbody>
</table>

**Field Values**

- Relevant value for data element

**Additional Information**

- Collected as HHMM
- Scene may be defined as "initial hospital" for inter-facility transfers
- HHMM should be collected as military time
- Used to auto-generate an additional calculated field: Total EMS Scene Time (elapsed time from EMS scene arrival to scene departure)

**Data Source**

- EMS Run Sheet
- 911 or Dispatch Center

**National Element**

- National Element P_06 from the 2016 National Trauma Data Standard
UNIT ARRIVED HOSPITAL TIME

Data Format  [time]

Definition

The time the EMS Agency arrived with the patient at the destination of EMS transport.

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: string</th>
<th>Element / Domain (Simple Type)</th>
<th>TimeUnitAtDestination</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Field Values

- Relevant value for data element

Additional Information

- Collected as HH:MM
- Scene may be defined as "initial hospital" for inter-facility transfers
- HH:MM should be collected as military time

Data Source

- EMS Run Sheet
- 911 or Dispatch Center
Triage Destination Protocol
Data Format  [time]

Definition
Indicates whether the out of hospital triage destination protocol was used to determine patient needed resources of this trauma care facility.

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: string</th>
<th>Element / Domain (Simple Type)</th>
<th>TimeUnitAtDestination</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry</td>
<td>No</td>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Configuration</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Field Values
• Relevant value for data element

Additional Information
• Collected as HH:MM
• Scene may be defined as "initial hospital" for inter-facility transfers
• HH:MM should be collected as military time

Data Source
• EMS Run Sheet
• 911 or Dispatch Center
Triage Criteria

Data Format  [time]

Definition

Indicates criterion (a) used to triage patient criteria that may be selected are those in the adult out of hospital trauma triage criteria decision protocol of the EMS Bureau of the IDPH up to 20 criteria may be chosen (if EMS run sheet unavailable, give best estimate of circumstances of injury).

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs:</th>
<th>Element / Domain (Simple Type)</th>
<th>Yes, common null values</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry</td>
<td>string</td>
<td>TriageRationale</td>
<td></td>
</tr>
<tr>
<td>Configuration</td>
<td>No</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Field Values

- Relevant value for data element

Additional Information

- Collected as HH:MM
- Scene may be defined as "initial hospital" for inter-facility transfers
- HH:MM should be collected as military time

Data Source

- EMS Run Sheet
- 911 or Dispatch Center
TRANSPORT MODE*

Definition
The mode of transport delivering the patient to your hospital

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: integer</th>
<th>XSD Element / Domain (Simple Type)</th>
<th>TransportMode</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Field Values
1. Ground Ambulance
2. Helicopter Ambulance
3. Fixed Wing Ambulance
4. Private/Public Vehicle/Walk-In
5. Police
6. Other

Additional Information
• Include in "Other" unspecified modes of transport
• The null value "Not Applicable" is used to indicate that a patient had a single mode of transport and therefore this field does not apply to the patient.
• Check all that apply with a maximum of 5

Data Source
• EMS Run Sheet
• 911 or Dispatch Center

National Element
• National Element P_07 from the 2016 National Trauma Data Standard
**Data Format**

[combo] single-choice

**Definition**

Indication as to if this procedure was performed while under the care of EMS.

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: integer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Element/Domain</td>
<td>TubeThoracostomy</td>
</tr>
<tr>
<td>(Simple Type)</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
</tr>
</tbody>
</table>

**Field Values**

1. Not Performed
2. Performed

**Data Source**

- EMS Run Sheet
- Other ED Documentation
(Pre-Hospital) CPR PERFORMED

Data Format  [combo] single-choice

Definition
Indication as to if CPR management was conducted while under the care of EMS.

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: integer</th>
<th>Element/Domain (Simple Type)</th>
<th>CPRPerformed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Field Values
1  Not Performed   2  Performed

Data Source
- EMS Run Sheet
- Other ED Documentation
Pre-Hospital Cardiac Arrest

Data Format  [combo] single-choice

Definition
Whether the person suffered a cardiac arrest at any stage prior to arrival at the definitive care hospital.

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs:integer</th>
<th>Element/Domain (Simple Type)</th>
<th>cardiac_arrest</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Field Values
1  No  2  Yes

Data Source
- EMS Run Sheet
- Other ED Documentation
(Pre-Hospital) NEEDLE THORACOSTOMY

Data Format  [combo] single-choice

Definition
Indication as to if this procedure was performed while under the care of EMS.

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: integer</th>
<th>Element/Domain (Simple Type)</th>
<th>NeedleThoracostomy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Field Values
1  Not Performed    2  Performed

Data Source
- EMS Run Sheet
- Other ED Documentation
**AIRWAY MANAGEMENT**

**Data Format**  [combo] single-choice

**Definition**
Indication as to whether a device or procedure was used to prevent or correct obstructed respiratory passage while under the care of EMS.

<table>
<thead>
<tr>
<th>Field Values</th>
<th>XSD Data Type</th>
<th>Element/Domain (Simple Type)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 CPAP</td>
<td>xs: integer</td>
<td>AirwayMgmt</td>
</tr>
<tr>
<td>2 Nasal Cannula</td>
<td>No</td>
<td>Cricoid</td>
</tr>
<tr>
<td>3 Non-rebreather</td>
<td>7</td>
<td>LMA</td>
</tr>
<tr>
<td>4 Bag &amp; Mask</td>
<td>8</td>
<td>Nasal ETT</td>
</tr>
<tr>
<td>5 Combitube</td>
<td>9</td>
<td>Oral Airway</td>
</tr>
<tr>
<td>6 Cricoid</td>
<td>10</td>
<td>Oral ETT</td>
</tr>
<tr>
<td>7 Nasal Trumpet</td>
<td>11</td>
<td>Trach</td>
</tr>
<tr>
<td>8 Supplemental Oxygen</td>
<td>12</td>
<td>Airway cleared</td>
</tr>
<tr>
<td>9 King Airway</td>
<td>13</td>
<td>Airway cleared</td>
</tr>
<tr>
<td>10 King Airway</td>
<td>14</td>
<td>Alternative Airway Device</td>
</tr>
</tbody>
</table>

**Data Source**
- EMS Run Sheet
- Other ED Documentation
(Pre-Hospital) FLUIDS

**Data Format**  [combo] single-choice

### Definition
Indication as to the amount of IV fluids that were administered to the patient while under the care of EMS.

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: integer</th>
<th>Element/Domain (Simple Type)</th>
<th>Fluids</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Field Values**
1. Saline lock
2. < 500
3. 500-2000
4. > 2000
5. IVF Attempted
6. IVF Unknown Amount

**Data Source**
- EMS Run Sheet
- Other ED Documentation
(Pre-Hospital) DESTINATION DETERMINATION

Data Format [combo] single-choice

Definition
Major reason for transferring the patient to the facility chosen.

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: integer</th>
<th>Element / Domain (Simple Type)</th>
<th>destinationdetermination</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Field Values
1. Closet Facility
2. Diversion
3. Hospital of Choice
4. On-Line Medical Direction
5. Other
6. Specialty Resource Center

Data Source
- EMS Run Sheet
- Other ED Documentation
EMS STATUS

Data Format  [combo] single-choice

Definition

Status of the EMS run sheet or Patient Care Report (PCR).

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs:integer</th>
<th>Element/Domain (Simple Type)</th>
<th>EMS_Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
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</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Field Values

1  Complete  3  Missing
2  Incomplete  4  Pending

Data Source

- EMS Run Sheet
- Other ED Documentation
(Pre-Hospital) MEDICATIONS

Data Format  [combo] multiple-choice

Definition
Medications given to the patient while under the care of EMS.

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: string</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
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<tr>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
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<tr>
<td>Required in XSD</td>
<td>Yes</td>
</tr>
</tbody>
</table>

Field Values
- Relevant value for data element

Data Source
- EMS Run Sheet
- Other ED Documentation
(Pre-Hospital) VITALS DATE

Data Format [date]

Definition
Date of first recorded vital signs in the Pre-Hospital setting.

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: string</th>
<th>Element/Domain (Simple Type)</th>
<th>datevitalsignstaken</th>
</tr>
</thead>
<tbody>
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<tr>
<td>Required in XSD</td>
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<td></td>
<td></td>
</tr>
</tbody>
</table>

Field Values
- Collected as MM/DD/YYYY

Data Source
- EMS Run Sheet
- Other ED Documentation
(Pre-Hospital) VITALS TIME

**Data Format**

[time]

---

**Definition**

Time of first recorded vital signs in the Pre-Hospital setting.

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: string</th>
<th>Element/Domain (Simple Type)</th>
<th>datevitalsignstaken</th>
</tr>
</thead>
<tbody>
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</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Field Values**

- Collected as HHMM
- HHMM should be collected as military time

**Data Source**

- EMS Run Sheet
- Other ED Documentation
INITIAL FIELD GCS - EYE*

Data Format  [number]

Definition
First recorded Glasgow Coma Score (Eye) in the pre-hospital setting at the scene of injury.

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: integer</th>
<th>XSD Element / Domain (Simple Type)</th>
<th>EmsGcsEye</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
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</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td>Min. Constraint: 1 Max. Constraint: 4</td>
<td></td>
</tr>
</tbody>
</table>

Field Values
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

Additional Information
- Used to calculate Overall GCS - EMS Score
- If the patient is transferred to your facility with no EMS run sheet from the scene of the injury, record as Not Known / Not Recorded
- 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 function 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

Data Source
- EMS Run Sheet

National Element
- National Element P_13 from the 2016 National Trauma Data Standard
INITIAL FIELD GCS - VERBAL*

Data Format  [number]

Definition
First recorded Glasgow Coma Score (Verbal) in the pre-hospital setting at the scene of injury.

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: integer</th>
<th>XSD Element / Domain (Simple Type)</th>
<th>EmsGcsVerbal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td>Min. Constraint: 1 Max. Constraint: 5</td>
<td></td>
</tr>
</tbody>
</table>

Field Values

**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, follows objects, interacts

**Adult:**
- 1 No vocal response
- 2 Incomprehensible sounds
- 3 Inappropriate words
- 4 Confused
- 5 Oriented

Additional Information
- Used to calculate Overall GCS - EMS Score
- If the patient is transferred to your facility with no EMS run sheet from the scene of the injury, record as Not Known / Not Recorded
- If a 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 function 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

Data Source
- EMS Run Sheet

National Element
- National Element P_14 from the 2016 National Trauma Data Standard
INITIAL FIELD GCS - MOTOR*

Data Format  [number]

Definition
First recorded Glasgow Coma Score (Motor) in the pre-hospital setting at the scene of injury.

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: integer</th>
<th>XSD Element / Domain (Simple Type)</th>
<th>EmsGcsMotor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
<td>Accepts Null Value</td>
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<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td>Min. Constraint: 1</td>
<td>Max. Constraint: 6</td>
</tr>
</tbody>
</table>

Field Values

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

Additional Information
- Used to calculate Overall GCS - EMS Score
- If the patient is transferred to your facility with no EMS run sheet from the scene of the injury, record as Not Known / Not Recorded
- 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 function 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

Data Source
- EMS Run Sheet

National Element
- National Element P_15 from the 2016 National Trauma Data Standard
(Initial Field) GCS QUALIFIER (UP TO 3)

Data Format [combo] multiple-choice

Definition
Documentation of factors potentially affecting the first assessment of GCS before arrival in the ED/hospital.

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: integer</th>
<th>XSD Element / Domain (Simple Type)</th>
<th>EmsGcsQualifier</th>
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</thead>
<tbody>
<tr>
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<td>Accepts Null Value</td>
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</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Field Values
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

Additional Information
- To select more than 1, hold down the Shift Key
- 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.)

Data Source
- EMS Run Sheet
(Initial Field) SYSTOLIC BLOOD PRESSURE*

Data Format

[number]

**Definition**
First recorded systolic blood pressure in the pre-hospital setting at the scene of injury.

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: integer</th>
<th>XSD Element / Domain (Simple Type)</th>
<th>EmsSbp</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
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<td>Required in XSD</td>
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<td>Min. Constraint: 0</td>
<td>Max. Constraint: 300</td>
</tr>
</tbody>
</table>

**Field Values**
- Relevant value for data element

**Additional Information**
- If the patient is transferred to your facility with no EMS run sheet from the scene of the injury, leave the value blank to record as "Not Known / Not Recorded"
- Used to auto-generate an additional calculated field: Revised Trauma Score - EMS (adult & pediatric)
- 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.

**Data Source**
- EMS Run Sheet

**National Element**
- National Element P_09 from the 2016 National Trauma Data Standard
(Initial Field) DIASTOLIC BLOOD PRESSURE

Data Format  [number]

**Definition**
First recorded diastolic blood pressure in the pre-hospital setting.

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: string</th>
<th>Element/Domain (Simple Type)</th>
<th>DBP</th>
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<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Field Values**
- Relevant value for data element

**Additional Information**
- If the patient is transferred to your facility with no EMS run sheet from the scene of the injury, leave blank to record as "Not Known / Not Recorded"

**Data Source**
- EMS Run Sheet
(Initial Field) PULSE RATE*

**Data Format**  [number]

**Definition**
First recorded pulse measured at the scene of injury in the pre-hospital setting (palpated or auscultated), expressed as a number per minute

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: integer</th>
<th>XSD Element / Domain (Simple Type)</th>
<th>EmsPulseRate</th>
</tr>
</thead>
<tbody>
<tr>
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<td>No</td>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
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<td>Required in XSD</td>
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<td>Min. Constraint: 0</td>
<td>Max. Constraint: 299</td>
</tr>
</tbody>
</table>

**Field Values**
- Relevant value for data element

**Additional Information**
- If the patient is transferred to your facility with no EMS run sheet from the scene of the injury, leave blank to record as "Not Known / Not Recorded"
- 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 Private/Public Vehicle/Walk-in.

**Data Source**
- EMS Run Sheet

**National Element**
- National Element P_10 from the 2016 National Trauma Data Standard
(Initial Field) RESPIRATORY RATE*

Data Format  [number]

Definition
First recorded respiratory rate measured at the scene of injury in the pre-hospital setting (expressed as a number per minute).

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: integer</th>
<th>XSD Element / Domain (Simple Type)</th>
<th>EmsRespiratoryRate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td>Min. Constraint: 0</td>
<td>Max. Constraint: 100</td>
</tr>
</tbody>
</table>

Field Values
- Relevant value for data element

Additional Information
- If the patient is transferred to your facility with no EMS run sheet from the scene of the injury, leave blank to record as "Not Known / Not Recorded"
- Used to auto-generate an additional calculated field: Revised Trauma Score - EMS (adult & pediatric)
  - The null value "Not Applicable" is used for patients who arrive by 4.
  - Private/Public Vehicle/Walk-in.

Data Source
- EMS Run Sheet

National Element
- National Element P_11 from the 2016 National Trauma Data Standard
(Initial Field) SP02 (Oxygen Saturation)*

Data Format  [number]

Definition
First recorded oxygen saturation at the scene of injury in the pre-hospital setting (expressed as a percentage).

<table>
<thead>
<tr>
<th>XSD Data Type</th>
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<th>XSD Element / Domain (Simple Type)</th>
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<td>Min. Constraint: 0 Max. Constraint: 100</td>
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</tr>
</tbody>
</table>

Field Values
- Relevant value for data element

Additional Information
- If the patient is transferred to your facility with no EMS run sheet from the scene of the injury, leave blank to record as "Not Known / Not Recorded"
- 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.

Data Source
- EMS Run Sheet

National Element
- National Element P_12 from the 2016 National Trauma Data Standard
INITIAL FIELD GCS - TOTAL*

Data Format    [number]

Definition
First recorded Glasgow Coma Score (total (Eye)) in the pre-hospital setting

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: integer</th>
<th>XSD Element / Domain (Simple Type)</th>
<th>EmsTotalGcs</th>
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<td>Required in XSD</td>
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<td>Min. Constraint: 3</td>
<td>Max. Constraint: 15</td>
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</table>

Field Values
- Relevant value for data element

Additional Information
- Use only if total score is available without component score
- Used to auto-generate an additional calculated field: Revised Trauma Score - EMS (adult & pediatric)
- If a patient does not have a numeric GCS score 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
- If the patient is transferred to your facility with no EMS run sheet from the scene of the injury, leave blank to record as "Not Known / Not Recorded"

Data Source
- EMS Run Sheet

National Element
- National Element P_16 from the 2016 National Trauma Data Standard
**Definition**

A physiological scoring system used to predict death from injury or need for trauma center care. It is scored based upon the initial vital signs obtained from the patient in the pre-hospital setting.

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: string</th>
<th>Element/Domain (Simple Type)</th>
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**Field Values**

- Relevant value for data element

**Data Source**

- EMS Run Sheet
(Pre-Hospital) RESPIRATORY ASSISTANCE

Data Format  [combo] single-choice

**Definition**

The determination of mechanical and/or external support of respiration

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: integer</th>
<th>Element/Domain (Simple Type)</th>
<th>RespiratoryAssistance</th>
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<td>Required in XSD</td>
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<td></td>
<td></td>
</tr>
</tbody>
</table>

**Field Values**

1. Unassisted Respiratory Rate
2. Assisted Respiratory Rate

**Data Source**

- EMS Run Sheet
Referring Hospital Information
TRANSPORTED TO REFERRING FACILITY BY

Data Format  [combo] single-choice

Definition
The mode of transport delivering the patient to the referring hospital

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: integer</th>
<th>Element/Domain (Simple Type)</th>
<th>Transported_by</th>
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</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Field Values
1 ALS Ground Ambulance
2 Charter Fixed-Wing
3 Charter Helicopter
4 ALS Helicopter
5 BLS Ground Ambulance
6 BLS Helicopter
7 Other
8 Police
9 Private/Public Vehicle/Walk-In

Data Source
- Referring Hospital Medical Record Information
REFERRING HOSPITAL NAME

Data Format [combo] single-choice

Definition
Name of the referring hospital.

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: string</th>
</tr>
</thead>
<tbody>
<tr>
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<td>ReferringHospitalID</td>
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<tr>
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<tr>
<td>Accepts Null Value</td>
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</tr>
<tr>
<td>Required in XSD</td>
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<td>Maximum Constraint:</td>
<td>50</td>
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</tbody>
</table>

Field Values
- Relevant value for data element

Data Source
- Referring Hospital Medical Record Information
REFERRING HOSPITAL ARRIVAL DATE

Definition
The date the patient arrived at the referring hospital.

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: string</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
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<tr>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
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<tr>
<td>Required in XSD</td>
<td>Yes</td>
</tr>
</tbody>
</table>

Field Values
- Relevant value for data element

Additional Information
- Collected as MM/DD/YYYY

Data Source
- Referring Hospital Medical Record Information
REFERRING HOSPITAL ARRIVAL TIME

Data Format  [time]

Definition
The time the patient arrived at the referring hospital.

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: string</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
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</tr>
<tr>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
</tr>
</tbody>
</table>

Field Values
- Relevant value for data element

Additional Information
- Collected as HHMM
- HHMM should be collected in military time

Data Source
- Referring Hospital Medical Record Information
REFERRING HOSPITAL DISCHARGE DATE

Data Format  [date]

Definition
The date the patient was discharged from the referring hospital.

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: string</th>
<th>Multiple Entry Configuration</th>
<th>No</th>
<th>Accepts Null Value</th>
<th>Yes, common null values</th>
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<tbody>
<tr>
<td>Required in XSD</td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Field Values
- Relevant value for data element

Additional Information
- Collected as MM/DD/YYYY

Data Source
- Referring Hospital Medical Record Information
REFERRING HOSPITAL DISCHARGE TIME

Data Format  [time]

Definition
The time the patient was discharged from the referring hospital.

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: string</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
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<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
</tr>
</tbody>
</table>

Field Values
- Relevant value for data element

Additional Information
- Collected as HHMM
- HHMM should be collected in military time

Data Source
- Referring Hospital Medical Record Information
REFERRING HOSPITAL PHYSICIAN NAME

Data Format  [text]

Definition
The name of the patient's referring physician.

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: string</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
</tr>
</tbody>
</table>

Field Values
- Relevant value for data element

Data Source
- Referring Hospital Medical Record Information
(Referring Hospital) GCS - EYE
Data Format  [number]

Definition
First recorded Glasgow Coma Score (Eye) at the referring hospital.

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: integer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
</tr>
</tbody>
</table>

Field Values
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

Additional Information
- Used to calculate Overall GCS - Referring Hospital 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 function 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

Data Source
- Referring Hospital Medical Record Information
(Referring Hospital) GCS - VERBAL

Data Format [number]

Definition
First recorded Glasgow Coma Score (Verbal) at the referring hospital

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: integer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
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<tr>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
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<tr>
<td>Required in XSD</td>
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</tr>
<tr>
<td>Min. Constraint:</td>
<td>1</td>
</tr>
<tr>
<td>Max. Constraint:</td>
<td>5</td>
</tr>
</tbody>
</table>

Field Values

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, follows objects, interacts

Adult:
1. No vocal response
2. Incomprehensible sounds
3. Inappropriate words
4. Confused
5. Oriented

Additional Information
- Used to calculate Overall GCS - Referring Hospital 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 function 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

Data Source
- Referring Hospital Medical Record Information
(Referring Hospital) GCS - MOTOR

**Data Format**  [number]

**Definition**
First recorded Glasgow Coma Score (Motor) at the referring hospital.

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: string</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
</tr>
<tr>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
</tr>
<tr>
<td>Min. Constraint:</td>
<td>1</td>
</tr>
<tr>
<td>Max. Constraint:</td>
<td>6</td>
</tr>
</tbody>
</table>

**Field Values**

Pediatric (≤ 2 years):
1. No motor response 4. Withdrawal from pain
2. Extension to pain 5. Localizing pain
3. Flexion to pain 6. Appropriate response to stimulation

Adult:
1. No motor response 3. Flexion to pain 5. Localizing pain
2. Extension to pain 4. Withdrawal from pain 6. Obeys commands

**Additional Information**
- Used to calculate Overall GCS - Referring Hospital 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 function 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

**Data Source**
- Referring Hospital Medical Record Information
(Referring Hospital) GCS Assessment QUALIFIERS (UP TO 3)

Definition
Documentation of factors potentially affecting the first assessment of GCS upon arrival to the referring hospital.

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: integer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>Yes, max 3</td>
</tr>
<tr>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
</tbody>
</table>

Field Values
1. Patient chemically sedated
2. Patient Intubated
3. Valid GCS: Patient was not sedated, not intubated, and did not have obstruction to the eye
4. Obstruction to the Patient's Eye

Additional Information
- 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.)
- To select more than 1, hold down the Shift Key

Data Source
- Referring Hospital Medical Record Information
**Definition**

First recorded temperature (in degrees Celsius [centigrade]) at the referring hospital.

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: string</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
</tr>
<tr>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
</tr>
<tr>
<td>Min. Constraint:</td>
<td>0</td>
</tr>
<tr>
<td>Max. Constraint:</td>
<td>45°C</td>
</tr>
</tbody>
</table>

**Field Values**

- Relevant value for data element
- Used to auto-generate an additional calculated field: Temperature in degrees fahrenheit

**Data Source**

- Referring Hospital Medical Record Information
(Referring Hospital) SYSTOLIC BLOOD PRESSURE

Data Format  [number]

Definition
First recorded systolic blood pressure at the referring hospital.

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: string</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
</tr>
<tr>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
</tr>
<tr>
<td>Min. Constraint:</td>
<td>0</td>
</tr>
<tr>
<td>Max. Constraint:</td>
<td>299</td>
</tr>
</tbody>
</table>

Field Values
• Relevant value for data element

Additional Information
• Used to auto-generate an additional calculated field: Revised Trauma Score - Referring Hospital (adult & pediatric)

Data Source
• Referring Hospital Medical Record Information
(Referring Hospital) DIASTOLIC BLOOD PRESSURE

Definition
First recorded diastolic blood pressure at the referring hospital.

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: string</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
</tr>
</tbody>
</table>

Field Values
- Relevant value for data element

Data Source
- Triage Form / Trauma Flow Sheet
- Other ED Documentation
(Referring Hospital) PULSE RATE
Data Format  [number]

Definition
First recorded pulse at the referring hospital (palpated or auscultated), expressed as a number per minute.

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: string</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
</tr>
<tr>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
</tr>
<tr>
<td>Min. Constraint:</td>
<td>0</td>
</tr>
<tr>
<td>Max. Constraint:</td>
<td>299</td>
</tr>
</tbody>
</table>

Field Values
- Relevant value for data element

Data Source
- Referring Hospital Medical Record Information
(Referring Hospital) RESPIRATORY RATE
Data Format  [number]

Definition
First recorded respiratory rate at the referring hospital (expressed as a number per minute)

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: string</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
</tr>
<tr>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
</tr>
<tr>
<td>Min. Constraint:</td>
<td>0</td>
</tr>
<tr>
<td>Max. Constraint:</td>
<td>120</td>
</tr>
</tbody>
</table>

Field Values
- Relevant value for data element

Additional Information
- Used to auto-generate an additional calculated field: Revised Trauma Score - Referring Hospital (adult & pediatric)

Data Source
- Referring Hospital Medical Record Information
## (Referring Hospital) SP02 (Oxygen Saturation)

### Data Format
[number]

### Definition
First recorded oxygen saturation at the referring hospital (expressed as a percentage).

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: string</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
</tr>
<tr>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
</tr>
<tr>
<td>Min. Constraint</td>
<td>0</td>
</tr>
<tr>
<td>Max. Constraint</td>
<td>100</td>
</tr>
</tbody>
</table>

### Field Values
- Relevant value for data element

### Data Source
- Referring Hospital Medical Record Information
**Data Format**
[number]

**Definition**
First recorded Glasgow Coma Score (total) at the referring hospital

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: string</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
</tr>
<tr>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
</tr>
<tr>
<td>Min. Constraint:</td>
<td>3</td>
</tr>
<tr>
<td>Max. Constraint:</td>
<td>15</td>
</tr>
</tbody>
</table>

**Field Values**
- Relevant value for data element

**Additional Information**
- Use only if total score is available without component score
- Used to auto-generate an additional calculated field: Revised Trauma Score - Referring Hospital (adult & pediatric)
- If a patient does not have a numeric GCS score recorded, but with 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
- 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 function 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

**Data Source**
- Referring Hospital Medical Record Information
(Referring Hospital Revised Trauma Score) MANUAL RTS

Data Format  [number]

Definition
A physiological scoring system used to predict death from injury or need for trauma center care. It is scored based upon the initial vital signs obtained from the patient at the referring hospital setting.

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: string</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
</tr>
<tr>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
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</tr>
<tr>
<td>Min. Constraint:</td>
<td>0</td>
</tr>
<tr>
<td>Max. Constraint:</td>
<td>4</td>
</tr>
</tbody>
</table>

Field Values
- Relevant value for data element

Additional Information
- Use only if total score is available without component score
- Auto-generated if Manual GCS - Total is entered

Data Source
- Referring Hospital Medical Record Information
(Referring Hospital Pediatric Trauma Score) MANUAL PTS

Data Format  [number]

**Definition**
A physiological scoring system used to predict death from injury or need for trauma center care. It is scored based upon the initial vital signs obtained from the patient at the referring hospital setting for a pediatric patient.

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: string</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
</tr>
</tbody>
</table>

**Field Values**
- Relevant value for data element

**Additional Information**
- Use only if total score is available without component score

**Data Source**
- Referring Hospital Medical Record Information
(Referring Hospital) Supplemental Oxygen

Data Format: [combo] single-choice

Definition
Supplemental Oxygen.

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: integer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
</tr>
<tr>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
</tr>
</tbody>
</table>

Field Values
1. No
2. Yes

Additional Information

Data Source
- Referring Hospital Medical Record Information
(Referring) HOSPITAL ICU
Data Format [combo] single-choice

Definition
Determination of whether or not the patient went to the ICU at the referring hospital.

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: integer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
</tr>
<tr>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
</tr>
</tbody>
</table>

Field Values
1  Yes  2  No

Data Source
• Referring Hospital Medical Record Information
• Other ICU Documentation
(Referring) HOSPITAL OR
Data Format  [combo] single-choice

Definition
Determination of whether or not the patient went to the OR at the referring hospital.

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: integer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
</tr>
</tbody>
</table>

Field Values
1  Yes  2  No

Data Source
- Referring Hospital Medical Record Information
- Other OR Documentation
(Referring) CPR PERFORMED

Data Format  [combo] single-choice

Definition
Indication as to if CPR management was conducted while under the care of the referring hospital.

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: integer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
</tr>
<tr>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
</tr>
</tbody>
</table>

Field Values
1  Yes  2  No

Data Source
- Referring Hospital Medical Record Information
(Referring Hospital) CT HEAD (Results)
Data Format [combo] single-choice

Definition
Indication as to if this procedure was performed while under the care of the referring hospital.

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: integer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
</tr>
<tr>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
</tr>
</tbody>
</table>

Field Values
1 Positive 2 Negative 3 Not Performed

Data Source
- Referring Hospital Medical Record Information
- Radiology Report
(Referring Hospital) CT CERVICAL (Results)

Data Format  [combo] single-choice

Definition
Indication as to if this procedure was performed while under the care of the referring hospital.

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: integer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
</tr>
</tbody>
</table>

Field Values
1  Positive   2  Negative   3  Not Performed

Data Source
- Referring Hospital Medical Record Information
- Radiology Report
(Referring Hospital) CT ABD/PELVIS (Results)

**Data Format**  [combo] single-choice

---

**Definition**
Indication as to if this procedure was performed while under the care of the referring hospital.

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: integer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
</tr>
</tbody>
</table>

**Field Values**

1. Positive
2. Negative
3. Not Performed

**Data Source**

- Referring Hospital Medical Record Information
- Radiology Report
**Definition**

Indication as to if this procedure was performed while under the care of the referring hospital.

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: integer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
</tr>
<tr>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
</tr>
</tbody>
</table>

**Field Values**

1. Positive
2. Negative
3. Not Performed

**Data Source**

- Referring Hospital Medical Record Information
- Radiology Report
(Referring Hospital) ABDOMINAL ULTRASOUND (Results)
Data Format   [combo] single-choice

Definition
Indication as to if this procedure was performed while under the care of the referring hospital.

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: integer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
</tr>
<tr>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
</tr>
</tbody>
</table>

Field Values
1  Positive  2  Negative  3  Not Performed

Data Source
- Referring Hospital Medical Record Information
- Radiology Report
(Referring Hospital) AORTOGRAM (Results)

Data Format: combo single-choice

Definition
Indication as to if this procedure was performed while under the care of the referring hospital.

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: integer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
</tr>
</tbody>
</table>

Field Values
1 Positive 2 Negative

Data Source
- Referring Hospital Medical Record Information
- Radiology Report
(Referring Hospital) ARTERIOGRAM (Results)

**Data Format**
[combo] single-choice

---

**Definition**
Indication as to if this procedure was performed while under the care of the referring hospital.

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: integer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Config</td>
<td>No</td>
</tr>
<tr>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
</tr>
</tbody>
</table>

**Field Values**

- 1 Positive
- 2 Negative

**Data Source**
- Referring Hospital Medical Record Information
- Radiology Report
(Referring Hospital) AIRWAY MANAGEMENT

Data Format  [combo] single-choice

Definition
Indication as to whether a device or procedure was used to prevent or correct an obstructed airway passage while under the care of the referring hospital.

<table>
<thead>
<tr>
<th>Field Values</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Bag &amp; Mask</td>
</tr>
<tr>
<td>2 CPAP</td>
</tr>
<tr>
<td>3 King Airway</td>
</tr>
<tr>
<td>4 Nasal Cannula</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>5 Mask</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>6 Combitube</td>
</tr>
<tr>
<td>7 Crico</td>
</tr>
</tbody>
</table>

Data Source
- Referring Hospital Medical Record Information
(Referring Hospital) DESTINATION DETERMINATION

**Data Format**  [combo] single-choice

**Definition**
The reason the facility transferred this patient to another acute care hospital.

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: integer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
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<tr>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
</tr>
</tbody>
</table>

**Field Values**
1. Hospital of Choice
2. Specialty Resource Center

**Data Source**
- Referring Hospital Medical Record Information
**Definition**

Indication as to which, if any, medications were administered to the patient while under the care of the referring hospital

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: string</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
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<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
</tr>
</tbody>
</table>

**Field Values**

- Relevant value for data element

**Data Source**

- Referring Hospital Medical Record Information
- Other ED Documentation
ED/Acute Care Information
DIRECT ADMIT TO HOSPITAL

Data Format  [combo] single-choice

Definition
Indicates if the patient was a direct admission.

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: integer</th>
<th>XSD Element/Domain (Simple Type)</th>
<th>Direct Admit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Field Values
1  No
2  Yes

Data Source
- Triage Form / Trauma Flow Sheet
- Other ED Documentation
- Billing Sheet / Medical Records Coding Summary Sheet
- Hospital Registration
- Hospital Discharge Summary
DATE ARRIVED IN ED/ACUTE CARE*

Data Format  [date]

Definition
The date the patient arrived to the ED / Hospital

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: date</th>
<th>XSD Element / Domain (Simple Type)</th>
<th>HospitalArrivalDate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td>Min. Constraint: 1990</td>
<td>Max. Constraint: 2030</td>
</tr>
</tbody>
</table>

Field Values
- Relevant value for data element

Additional Information
- If the patient was brought to the ED, enter date patient arrived at ED. If patient was directly admitted to the hospital, enter date patient was admitted to the hospital
- Collected as MM/DD/YYYY
- Used to auto-generate two additional calculated fields: Total EMS Time: (elapsed time from EMS dispatch to hospital arrival) and Total Length of Hospital Stay (elapsed time from ED / Hospital Arrival to ED / Hospital Discharge)

Data Source
- Triage Form / Trauma Flow Sheet
- Other ED Documentation
- Hospital Registration
- Hospital Discharge Summary
- Face Sheet

National Element
- National Element ED_01 from the 2016 National Trauma Data Standard
TIME ARRIVED IN ED/ACUTE CARE*

Data Format [time]

Definition
The time the patient arrived at the ED / Hospital

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs:time</th>
<th>XSD Element / Domain (Simple Type)</th>
<th>HospitalArrivalTime</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
</tbody>
</table>

Field Values
- Relevant value for data element

Additional Information
- 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
- Collected as HHMM
- HHMM should be collected as military time
- Used to auto-generate two additional calculated fields: Total EMS Time: (elapsed time from EMS dispatch to hospital arrival) and Total Length of Hospital Stay (elapsed time from ED / Hospital Arrival to ED / Hospital Discharge)

Data Source
- Triage Form / Trauma Flow Sheet
- Other ED Documentation
- Hospital Registration
- Hospital Discharge Summary
- Face Sheet

National Element
- National Element ED_02 from the 2016 National Trauma Data Standard
TRIUMA TEAM ACTIVATED

Data Format  [radio]

Definition
Level of Trauma Team activated.

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: integer</th>
<th>XSD Element/Domain (Simple Type)</th>
<th>TraumaTeamLevel</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Field Values
1  Not Activated
2  Level 1
3  Level 2
4  Level 3
5  Level 4

Data Source
- Triage Form / Trauma Flow Sheet
- Other ED Documentation
DATE TRAUMA TEAM ACTIVATED

Data Format  [date]

Definition
The date the trauma team was activated.

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: string</th>
<th>XSD Element/Domain (Simple Type)</th>
<th>TraumaTeamActivated</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Field Values
- Relevant value for data element

Additional Information
- Collected as MM/DD/YYYY
- Only completed if Trauma Team is activated

Data Source
- Triage Form / Trauma Flow Sheet
- Other ED Documentation
- Hospital Registration
- Hospital Discharge Summary
TIME TRAUMA TEAM ACTIVATED

Data Format  [time]

Definition
The time the trauma team was activated.

<table>
<thead>
<tr>
<th>XSD Data Type:</th>
<th>xs: string</th>
<th>XSD Element/Domain (Simple Type)</th>
<th>TraumaTeamActivatedTime</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Field Values
• Relevant value for data element

Additional Information
• Collected as HHMM
• HHMM should be collected as military time
• Only completed if Trauma Team is activated

Data Source
• Triage Form / Trauma Flow Sheet
• Other ED Documentation
• Hospital Registration
• Hospital Discharge Summary
TEAM MEMBER

Data Format  [combo] single-choice

Definition
Name of the team member called when trauma team was activated.

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: string</th>
<th>XSD Element/Domain (Simple Type)</th>
<th>Performer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
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<td>Yes, common null values</td>
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<tr>
<td>Required in XSD</td>
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<td></td>
</tr>
</tbody>
</table>

Field Values
• Relevant value for data element

Additional Information
• Only completed if Trauma Team is activated

Data Source
• Triage Form / Trauma Flow Sheet
• Other ED Documentation
• Hospital Registration
• Hospital Discharge Summary
**Definition**

The specialty of the team member (physician) called for the Trauma Team Activation.

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: integer</th>
<th>XSD Element/Domain (Simple Type)</th>
<th>ServiceTypeID</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Field Values**

| 1 | Anesthesia | 11 | Maxillofacial |
| 2 | Crisis RN | 12 | Surgery |
| 3 | CRNA | 13 | Nephrology |
| 4 | Dental | 14 | Obstetrics & Gyn |
| 5 | Endocrinology | 15 | Ophthalmology |
| 6 | ENT | 16 | Organ Retrieval |
| 7 | Hospitalist | 17 | Paediatric Surgery |
| 8 | Infectious Diseases | 18 | Pediatric Hospitalist |
| 9 | Intensive Care Unit | 19 | Pediatric Intensivist |
| 10 | Internal Medicine | 20 | Plastic Surgery |
| 21 | Pulmonology |
| 22 | Social Work |
| 23 | Urology |
| 24 | Vascular Surgery |
| 25 | Emergency Medicine |
| 26 | Family Practice |
| 27 | Neurosurgery |
| 28 | Orthopedic Surgery |
| 29 | Physician Assistant |
| 30 | Surgery Senior Resident |
| 31 | Surgery/Trauma |

**Additional Information**

- Only completed if Trauma Team is activated

**Data Source**

- Triage Form / Trauma Flow Sheet
- Other ED Documentation
- Hospital Registration
- Hospital Discharge Summary
DATE (Trauma Team Member) CALLED

Data Format [date]

Definition
The date the team member (physician) was called when the trauma team was activated

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: string</th>
<th>XSD Element/Domain (Simple Type)</th>
<th>DateTimeCalled</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Field
Values
• Relevant value for data element

Additional Information
• Collected as MM/DD/YYYY
• Only completed if Trauma Team is activated

Data Source
• Triage Form / Trauma Flow Sheet
• Other ED Documentation
TIME (Trauma Team Member) CALLED

Definition
The time the team member (physician) was called when the trauma team was activated

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: string</th>
<th>XSD Element/Domain (Simple Type)</th>
<th>DateTimeCalledTime</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
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<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Field Values
- Relevant value for data element

Additional Information
- Collected as HHMM
- HHMM should be collected as military time
- Only completed if Trauma Team is activated

Data Source
- Triage Form / Trauma Flow Sheet
- Other ED Documentation
DATE (Trauma Team Member) ARRIVED

Data Format  [date]

Definition
The date the team member (physician) arrived when the trauma team was activated.

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: string</th>
<th>XSD Element/Domain (Simple Type)</th>
<th>DateArrived</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Field Values
• Relevant value for data element

Additional Information
• Collected as MM/DD/YYYY
• Only completed if Trauma Team is activated

Data Source
• Triage Form / Trauma Flow Sheet
• Other ED Documentation
**TIME (Trauma Team Member) ARRIVED**

**Data Format**  [time]

---

**Definition**

The time the team member (physician) arrived when the trauma team was activated.

---

**XSD Data Type**  xs: string

**XSD Element/Domain (Simple Type)**  TimeArrived

**Multiple Entry Configuration**  No

**Accepts Null Value**  Yes, common null values

**Required in XSD**  Yes

---

**Field Values**

• Relevant value for data element

---

**Additional Information**

• Collected as HHMM
• HHMM should be collected as military time
• Only completed if Trauma Team is activated

---

**Data Source**

• Triage Form / Trauma Flow Sheet
• Other ED Documentation
(Trauma Team) TIMELY ARRIVAL

Data Format [combo] single-choice

Definition

Was the (ED physician) respond to the call to see the patient in a timely manner?

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: integer</th>
<th>XSD Element/Domain (Simple Type)</th>
<th>TimelyArrival</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>Yes</td>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Field Values

1  Yes
2  No

Additional Information

- Only completed if Trauma Team is activated
- Criteria for timely arrival is defined by the facility

Data Source

- Triage Form / Trauma Flow Sheet
- Other ED Documentation
- Hospital Registration
- Hospital Discharge Summary
ADMITTING MD/STAFF

Data Format  [combo] single-choice

Definition
Physician or staff member’s name to which the patient is designated upon admission to the facility.

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: string</th>
<th>XSD Element/Domain (Simple Type)</th>
<th>Admitting Staff</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
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<td></td>
<td></td>
</tr>
</tbody>
</table>

Field Values
• Relevant value for data element

Data Source
• Triage Form / Trauma Flow Sheet
• Other ED Documentation
• Hospital Registration
• Hospital Discharge Summary
ADMITTING SERVICE

Data Format  [combo] single-choice

Definition
The department within the hospital that admitted the patient after being discharged from the ED.

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: integer</th>
<th>XSD Element/Domain (Simple Type)</th>
<th>ServiceTypeID</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Field Values
1. Cardiology
2. Cardiovascular Surgery
3. Ears, Nose, Throat (ENT)
4. Family Practice
5. Gastrointestinal (GI)
6. General Surgery
7. Hem-Onc
8. Hospitalist
9. Infection Control
10. Internal Medicine
11. Medicine
12. Nephrology
13. Ophthalmology
14. Orthopedics
15. Pediatric Surgery
16. Plastic Surgery
17. Surgery Subspecialty
18. Trauma

Additional Information
- Burn, OMFS, Hand, etc. fall under "Surgery Subspecialty"

Data Source
- Triage Form / Trauma Flow Sheet
- Other ED Documentation
- Hospital Registration
- Hospital Discharge Summary
CONSULTING SERVICES
Data Format   [combo] single-choice

Definition
The determination that consulting services were provided.

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: integer</th>
<th>XSD Element/Domain (Simple Type)</th>
<th>ConsultingService</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Field Values
1  Yes
2  No

Data Source
- Triage Form / Trauma Flow Sheet
- Other ED Documentation
- Hospital Registration
- Hospital Discharge Summary
(Consulting) SERVICE TYPE

Data Format [combo] single-choice

Definition
The specialty of any consults made during the patient's time at the hospital.

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: integer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
</tr>
</tbody>
</table>

Accepts Null Value | Yes, common null values

<table>
<thead>
<tr>
<th>Field Values</th>
<th>1 Acute Rehabilitation Medicine</th>
<th>23 Kidney Transplant</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2 Anesthesia</td>
<td>24 Liver</td>
</tr>
<tr>
<td></td>
<td>3 Bariatric</td>
<td>25 Neonatal</td>
</tr>
<tr>
<td></td>
<td>4 Burn</td>
<td>26 Nephrology</td>
</tr>
<tr>
<td></td>
<td>5 Cardiology</td>
<td>27 Neurology</td>
</tr>
<tr>
<td></td>
<td>6 Cardiacholoracic Surgery</td>
<td>28 Neurosurgery</td>
</tr>
<tr>
<td></td>
<td>7 Chemical Dependence</td>
<td>29 Obstetric</td>
</tr>
<tr>
<td></td>
<td>8 Critical Care Medicine</td>
<td>30 Oculoplastic</td>
</tr>
<tr>
<td></td>
<td>9 Critical Care Surgery</td>
<td>31 Ophthalmology</td>
</tr>
<tr>
<td></td>
<td>10 Dentistry</td>
<td>32 Oral Maxillo Facial Surgery</td>
</tr>
<tr>
<td></td>
<td>11 Dermatology</td>
<td>33 Orthopedic Surgeon</td>
</tr>
<tr>
<td></td>
<td>12 Endocrinology</td>
<td>34 Pain</td>
</tr>
<tr>
<td></td>
<td>13 Ear Nose Throat</td>
<td>35 Pediatric Cardiology</td>
</tr>
<tr>
<td></td>
<td>14 Family Medicine</td>
<td>36 Pediatric Critical Care Medicine</td>
</tr>
<tr>
<td></td>
<td>15 Gastroenterology</td>
<td>37 Pediatric Dentistry</td>
</tr>
<tr>
<td></td>
<td>16 General Surgery</td>
<td>38 Pediatric Gastroenterology</td>
</tr>
<tr>
<td></td>
<td>17 Geriatric</td>
<td>39 Pediatric Hematology Oncology</td>
</tr>
<tr>
<td></td>
<td>18 Gynecology</td>
<td>40 Pediatric Infectious Disease</td>
</tr>
<tr>
<td></td>
<td>19 Hand</td>
<td>41 Pediatric Nephrology</td>
</tr>
<tr>
<td></td>
<td>20 Hematology Oncology</td>
<td>42 Pediatric Neurology</td>
</tr>
<tr>
<td></td>
<td>21 Infectious Disease</td>
<td>43 Pediatric Orthopedic</td>
</tr>
<tr>
<td></td>
<td>22 Internal Medicine</td>
<td></td>
</tr>
</tbody>
</table>

Additional Information
• Only completed if Consulting Services is "Yes"

Data Source
• Triage Form / Trauma Flow Sheet
• Other ED Documentation
• Hospital Registration
• Hospital Discharge Summary
CONSULTING STAFF

**Data Format**  [combo] single-choice

---

**Definition**

Name of staff member that consulted on the patient.

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: string</th>
<th>XSD Element/Domain (Simple Type)</th>
<th>ConsultingStaff</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Field Values**

- Relevant value for data element

**Additional Information**

- Only completed if Consulting Services is "Yes"

**Data Source**

- Triage Form / Trauma Flow Sheet
- Other ED Documentation
- Hospital Registration
- Hospital Discharge Summary
DATE (Consulting Practitioner Requested)

Data Format: [date]

Definition:
The date the consultant was called.

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: string</th>
<th>XSD Element/Domain (Simple Type)</th>
<th>DateofService</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Field Values
- Relevant value for data element

Additional Information
- Collected as MM/DD/YYYY
- Only completed if Consulting Services is "Yes"

Data Source
- Triage Form / Trauma Flow Sheet
- Other ED Documentation
- Hospital Registration
- Hospital Discharge Summary
TIME (Consulting Practitioner Requested)

Data Format [time]

Definition
The time the consultant was called.

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: string</th>
<th>XSD Element/Domain (Simple Type)</th>
<th>TimeOfService</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Field Values
- Relevant value for data element

Additional Information
- Collected as HHMM
- HHMM should be collected as military time
- Only completed if Consulting Services is "Yes"

Data Source
- Triage Form / Trauma Flow Sheet
- Other ED Documentation
- Hospital Registration
- Hospital Discharge Summary
**DECISION TO DISCHARGE/TRANSFER DATE**

**Data Format**  
[date]

---

**Definition**  
The date it was decided that the patient would be transferred

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: date</th>
<th>XSD Element / Domain (Simple Type)</th>
<th>Decision_Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Config</td>
<td>No</td>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Field Values**  
- Relevant value for data element

**Additional Information**  
- Collected as MM/DD/YYYY  
- Only completed if ED Disposition is "Transferred to another Hospital"

**Data Source**  
- Triage Form / Trauma Flow Sheet  
- ED Physician's Notes  
- ED Nurses' Notes  
- Other ED Documentation
DECISION TO DISCHARGE/TRANSFER TIME

Definition
The time it was decided that the patient would be transferred

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: time</th>
<th>XSD Element / Domain (Simple Type)</th>
<th>Decision_Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Field Values
- Relevant value for data element

Additional Information
- Collected as HHMM
- HHMM should be collected as military time
- Only completed if ED Disposition is "Transferred to another Hospital"

Data Source
- Triage Form / Trauma Flow Sheet
- ED Nurses' Notes
- Other ED Documentation
- Hospital Discharge Summary
- Billing Sheet / Medical Records Summary Sheet
DATE DISCHARGED FROM ED*

Definition
The date the order was written for the patient to be discharged from the ED.

Data Format  [date]

Field Values
• Relevant value for data element

Additional Information
• Collected as MM/DD/YYYY
• Used to auto-generate an additional calculated field: Total ED Time: (elapsed time from ED admit to ED discharge)
• Leave the value blank to use the null value "Not Applicable" if the patient is directly admitted to the hospital.
  If ED Discharge Disposition is 5 Deceased/Expired, then ED Discharge Date is the date of death as indicated on the patient's death certificate.

Data Source
• Hospital Discharge Summary
• Billing Sheet / Medical Records Summary Sheet
• Physician's Progress Notes
• Triage Form / Trauma Flow Sheet
• ED Nurses' Notes
• Other ED Documentation
• Progress Notes

National Element
• National Element ED_21 from the 2016 National Trauma Data Standard
**ED DISCHARGE TIME**

**Data Format**  
[time]

**Definition**  
The time the order was written for the patient to be discharged from the ED.

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: time</th>
</tr>
</thead>
<tbody>
<tr>
<td>XSD Element / Domain (Simple Type)</td>
<td>EDDischargeTime</td>
</tr>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
</tr>
<tr>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
</tr>
<tr>
<td>Min. Constraint:</td>
<td>1990</td>
</tr>
<tr>
<td>Max. Constraint:</td>
<td>23:59</td>
</tr>
</tbody>
</table>

**Field Values**  
- Relevant value for data element

**Additional Information**  
- Collected as HHMM
- HHMM should be collected as military time
- Used to auto-generate an additional calculated field: Total ED Time: (elapsed time from ED admit to ED discharge)
- Leave the value blank to use the null value "Not Applicable" if the patient is directly admitted to the hospital.
  - If ED Discharge Disposition is 5 Decased/Expired, then ED Discharge Time is the time of death as indicated on the patient’s death certificate.

**Data Source**  
- Hospital Discharge Summary
- Billing Sheet / Medical Records Summary Sheet
- Physician's Progress Notes
- Triage Form / Trauma Flow Sheet
- ED Nurses' Notes
- Other ED Documentation
- Progress Notes

**National Element**  
- National Element ED_22 from the 2016 National Trauma Data Standard
**ED DISCHARGE DISPOSITION**

*Data Format*  [combo] single-choice

---

**Definition**

The disposition of the patient at the time of discharge from the ED.

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: integer</th>
<th>XSD Element / Domain (Simple Type)</th>
<th>EdDischargeDisposition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Field Values**

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. AMA (Left against medical advice)
11. Transferred to another hospital

**Additional Information**

- Based upon UB-04 disposition coding.
- The null value "Not Applicable" is used if the patient is directly admitted to the hospital.
- If a patient originated from an institutional care facility, jail, or skilled nursing facility and then was discharged from the ED to the same institutional care facility, jail, or skilled nursing facility, you would use the field value 4. Home with Services or 9. Home without Services.
- If a patient originated from home and then was discharged from the ED to an institutional care facility, jail, or skilled nursing facility, you would use the field value 6. Other (jail, institutional care, mental health, etc.)
- If ED Discharge Disposition is "Home with services", "Died / Expired", "Other (jail, institutional care, mental health, etc.)", "Home without services", "Left against medical advice", or "Transferred to another hospital", then Hospital Discharge Date, Time, and Disposition should be "Not Applicable"
Data Source
- Hospital Discharge Documentation
- Nursing Progress Notes
- History & Physical
- Social Worker Notes
- Other Hospital Documentation

National Element
- National Element ED_19 from the 2016 National Trauma Data Standard
Signs of Life*

Data Format  [combo] single-choice

Definition
Indication of whether patient arrived at ED/Hospital with signs of life.

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: integer</th>
<th>XSD Element / Domain (Simple Type)</th>
<th>DeathInEd*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Field Values
1  Arrived with NO signs of life
2  Arrived with signs of life

Additional Information
• A patient with no signs of life is defined as having none of the following: organized EKG activity, papillary responses, spontaneous respiratory attempts or movement, and unassisted blood pressure. This usually implies the patient was brought to the ED with CPR in progress.
• Only completed if ED Disposition is "Died"

Data Source
• Triage Form / Trauma Flow Sheet
• ED Physician's Notes
• ED Nurses' Notes
• Other ED Documentation
• History & Physical

National Element
• National Element ED_20 from the 2016 National Trauma Data Standard
OPERATING ROOM DISCHARGE DISPOSITION

Data Format  [combo] single-choice

Definition
The disposition of the patient following post-anesthesia recovery.

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: integer</th>
<th>XSD Element/Domain (Simple Type)</th>
<th>ORDisposition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Field Values
1. Died
2. Floor bed (general admission, non-specialty unit bed)
3. Home with Services
4. Home without Services
5. Intensive Care Unit (ICU)
6. Left against medical advice (AMA)
7. Observation unit (unit that provides < 24 hour stays)
8. Other (jail, hospice, institution, etc.)
9. Post-Anesthesia Care Unit (PACU)
10. Telemetry / step-down unit (less acuity than ICU)
11. Transferred to another hospital

Additional Information
- Only completed if ED Disposition is "Operating Room"
- SICU, CCU, MICU fall under the ICU category

Data Source
- OR Nurses' Notes
- Operative Records
TRANSFER DELAY

Data Format  [combo] single-choice

Definition
Indicate whether or not there was a delay transferring a patient to a hospital.

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: integer</th>
<th>XSD Element/Domain (Simple Type)</th>
<th>Transfer_Delay</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Field Values
1  No  2  Yes

Additional Information
- Only completed if ED Disposition is "Transferred to another Hospital"

Data Source
- Triage Form / Trauma Flow Sheet
- ED Nurses’ Notes
- Other ED Documentation
- Hospital Discharge Summary
- Billing Sheet / Medical Records Summary Sheet
REASON FOR TRANSFER DELAY

Data Format [combo] single-choice

Definition
Reason for delay in transferring the patient.

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>XSD Element/Domain (Simple Type)</th>
<th>Multiple Entry Configuration</th>
<th>Required in XSD</th>
<th>Accepts Null Value</th>
<th>Delay_Reason</th>
</tr>
</thead>
<tbody>
<tr>
<td>xs: integer</td>
<td>Delay_Reason</td>
<td>No</td>
<td>Yes</td>
<td>Yes, common null values</td>
<td></td>
</tr>
</tbody>
</table>

Field Values
1. EMS issue
2. Other
3. Receiving hospital issue
4. Referring Physician Decision Making
5. Referring Hospital Issue - Radiology
6. Weather or Natural Factors

Additional Information
- Only completed if ED Disposition is "Transferred to another Hospital"

Data Source
- Triage Form / Trauma Flow Sheet
- ED Nurses' Notes
- Other ED Documentation
- Hospital Discharge Summary
- Billing Sheet / Medical Records Summary Sheet
OTHER REASON FOR TRANSFER DELAY

Data Format [text]

Definition
Other reason for transfer delay that is not specific in the reason for transfer delay drop down menu.

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: string</th>
<th>XSD Element/Domain (Simple Type)</th>
<th>Delay_Reason_Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Field Values
- Relevant value for data element

Additional Information
- Only completed if Reason for Transfer Delay is "Other"

Data Source
- Triage Form / Trauma Flow Sheet
- ED Nurses' Notes
- Other ED Documentation
- Hospital Discharge Summary
- Billing Sheet / Medical Records Summary Sheet
Initial Assessment Information
Height* (cm)

**Data Format**  [combo] single-choice

**Definition**
First recorded height (in inches) upon ED/hospital arrival.

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: integer</th>
<th>XSD Element / Domain (Simple Type)</th>
<th>Height</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td>Min. Constraint: 0</td>
<td>Max. Constraint: 244 (cm)</td>
</tr>
</tbody>
</table>

**Field Values**
- Relevant value for data element

**Additional Information**
- Recorded in centimeters
- May be based on family or self-report
- Please note that the first recorded hospital vitals do not need to be from the same assessment
- Used to auto-generate an additional calculated field: Height (inches)

**Data Source**
- Triage Form / Trauma Flow Sheet
- ED Record
- EMS Run Sheet
- Nurses notes
- Self-report
- Family report
- Other ED documentation
- Pharmacy Record

**National Element**
- National Element ED_15 from the 2016 National Trauma Data Standard
Weight* (kg)

Data Format  [combo] single-choice

Definition
Measured or estimated baseline weight

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: integer</th>
<th>XSD Element / Domain (Simple Type)</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td>Min. Constraint: 0</td>
<td>Max. Constraint: 907 (kg)</td>
</tr>
</tbody>
</table>

Field Values
- Relevant value for data element

Additional Information
- Recorded in kilograms
- May be based on family or self-report
- Used to auto-generate an additional calculated field: Weight (pounds)
  - Please note that first recorded/hospital visits do not need to be from the same assessment
- assessment

Data Source
- Triage Form / Trauma Flow Sheet
- ED Record
- EMS Run Sheet
- Nurses notes
- Self-report
- Family report
- Other ED documentation
- Pharmacy Record

National Element
- National Element ED_16 from the 2016 National Trauma Data Standard
(Initial ED/Hospital) VITALS DATE

Data Format  [date]

**Definition**

The date of the first recorded vitals in the ED/Hospital setting.

<table>
<thead>
<tr>
<th>Data Type</th>
<th>XSD Data Type</th>
<th>Element/Domain (Simple Type)</th>
<th>Required in XSD</th>
<th>Accepts Null Value</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>xs: string</td>
<td>DateVitalSignsTaken</td>
<td>Yes</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td></td>
<td>No</td>
<td>DateVitalSignsTaken</td>
<td>Yes</td>
<td>Yes, common null values</td>
</tr>
</tbody>
</table>

**Field Values**

- Relevant value for data element

**Additional Information**

- Collected as MM/DD/YYYY

**Data Source**

- Triage Form/Trauma Flow Sheet
- Billing Sheet / Medical Records Coding Summary Sheet
- ED Nurses' Notes
- Other ED Documentation
**Definition**
The time of the first recorded vitals in the ED/Hospital setting

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: string</th>
<th>XSD Element/Domain (Simple Type)</th>
<th>TimeVitalSignsTaken</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Field Values**
- Relevant value for data element

**Additional Information**
- Collected as HHMM
- HHMM should be collected in military time

**Data Source**
- Triage Form/Trauma Flow Sheet
- Billing Sheet / Medical Records Coding Summary Sheet
- ED Nurses’ Notes
- Other ED Documentation
(Initial ED/Hospital) GCS - EYE*

**Data Format**  [number]

**Definition**
First recorded Glasgow Coma Score (Eye) in the ED/hospital within 30 minutes or less of ED/Hospital arrival time.

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: integer</th>
<th>XSD Element / Domain (Simple Type)</th>
<th>GcsEye</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td>Min. Constraint: 1</td>
<td>Max. Constraint: 4</td>
</tr>
</tbody>
</table>

**Field Values**
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

**Additional Information**
- 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 function 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
- Please note that the first recorded hospital vitals do not need to be from the same assessment

**Data Source**
- Triage Form / Trauma Flow Sheet
- Other ED documentation
- Nurses notes
- Physician Notes/Flow Sheet

**National Element**
- National Element ED_10 from the 2016 National Trauma Data Standard
**Definition**

First recorded Glasgow Coma Score (Verbal) in the ED/hospital within 30 minutes or less of ED/hospital arrival time.

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: integer</th>
<th>XSD Element / Domain (Simple Type)</th>
<th>GcsVerbal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td>Min. Constraint: 1</td>
<td>Max. Constraint: 5</td>
</tr>
</tbody>
</table>

**Field Values**

**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, follows objects, interacts

**Adult:**
- 1. No verbal response
- 2. Incomprehensible sounds
- 3. Inappropriate words
- 4. Confused
- 5. Oriented

**Additional Information**

- Used to calculate Overall GCS - ED Score
- 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 function 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
- Please note that the first recorded hospital vitals do not need to be from the same assessment

**Data Source**

- Triage Form / Trauma Flow Sheet
- Other ED Documentation
- Nurses notes

**National Element**

- National Element ED_11 from the 2016 National Trauma Data Standard
(Initial ED/Hospital) GCS - MOTOR*  

**Data Format**  
[number]  

**Definition**  
First recorded Glasgow Coma Score (Motor) in the ED/hospital within 30 minutes or less of ED/hospital arrival.

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: integer</th>
<th>XSD Element / Domain (Simple Type)</th>
<th>GcsMotor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td>Min. Constraint: 1</td>
<td>Max. Constraint: 6</td>
</tr>
</tbody>
</table>

**Field Values**  

**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  

**Additional Information**  
- 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 function 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  
- Please note that the first recorded hospital vitals do not need to be from the same assessment  

**Data Source**  
- Triage Form / Trauma Flow Sheet  
- Other ED Documentation  
- Nurses notes  
- Physician Notes  

**National Element**  
- National Element ED_12 from the 2016 National Trauma Data Standard
(Initial ED/Hospital) GCS Assessment QUALIFIERS (UP TO 3)*

Data Format  [combo] multiple-choice

### Definition
Documentation of factors potentially affecting the first assessment of GCS within 30 minutes or less of ED/hospital arrival.

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: integer</th>
<th>XSD Element / Domain (Simple Type)</th>
<th>GcsQualifier</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>Yes, max 3</td>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Field Values
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

### Additional Information
- 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 the first recorded hospital vitals do not need to be from the same assessment.
- Check all that apply

### Data Source
- Triage Form / Trauma Flow Sheet
- Other ED Documentation
- Nurses notes
- Physician Notes/Flow Sheet

### National Element
- National Element ED_14 from the 2016 National Trauma Data Standard
Definition
First recorded temperature (in degrees Celsius [centigrade]) in the ED/hospital within 30 minutes or less of ED/hospital arrival

Field Values
- Relevant value for data element

Additional Information
- Please note that the first recorded hospital vitals do not need to be from the same assessment
- Used to auto-generate an additional calculated field: Temperature in degrees fahrenheit

Data Source
- Triage Form / Trauma Flow Sheet
- Other ED Documentation
- Nurses notes

National Element
- National Element ED_05 from the 2016 National Trauma Data Standard
**Definition**

Indicates the initial emergency department/hospital temperature measurement route.

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: integer</th>
<th>XSD Element / Domain (Simple Type)</th>
<th>TemperatureRoute</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Field Values**

1. Axillary
2. Foley
3. Oral
4. Other
5. Rectal
6. Tympanic

**Data Source**

- Triage Form / Trauma Flow Sheet
- Other ED Documentation
- Nurses notes
(Initial ED/Hospital) SYSTOLIC BLOOD PRESSURE*

**Data Format**  [number]

**Definition**
First recorded systolic blood pressure in the ED/hospital, within 30 minutes or less of ED/hospital arrival

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: integer</th>
<th>XSD Element / Domain (Simple Type)</th>
<th>Sbp</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td>Min. Constraint: 0</td>
<td>Max. Constraint: 300</td>
</tr>
</tbody>
</table>

**Field Values**
- Relevant value for data element

**Additional Information**
- Used to auto-generate an additional calculated field: Revised Trauma Score - ED (adult & pediatric)
- Please note that the first recorded hospital vitals do not need to be from the same assessment

**Data Source**
- Triage Form / Trauma Flow Sheet
- Other ED Documentation
- Nurses notes
- Physician Notes
- History & Physical

**National Element**
- National Element ED_03 from the 2016 National Trauma Data Standard
(Initial ED/Hospital) DIASTOLIC BLOOD PRESSURE

**Data Format**  [number]

**Definition**
First recorded diastolic blood pressure in the ED/hospital within 30 minutes or less of ED/hospital arrival

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: integer</th>
<th>XSD Element / Domain (Simple Type)</th>
<th>DBP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td>Min. Constraint: 0</td>
<td>Max. Constraint: 299</td>
</tr>
</tbody>
</table>

**Field Values**
- Relevant value for data element

**Additional Information**
- Please note that the first recorded hospital vitals do not need to be from the same assessment

**Data Source**
- Triage Form / Trauma Flow Sheet
- Other ED Documentation
- Nurses notes
(Initial ED/Hospital) PULSE RATE*

Definition
First recorded pulse (palpated or auscultated) in the ED/hospital, within 30 minutes or less of ED/hospital arrival time (expressed as a number per minute)

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: integer</th>
<th>XSD Element / Domain (Simple Type)</th>
<th>PulseRate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td>Min. Constraint: 0</td>
<td>Max. Constraint: 300</td>
</tr>
</tbody>
</table>

Field Values
- Relevant value for data element

Additional Information
- Please note that the first recorded hospital vitals do not need to be from the same assessment

Data Source
- Triage Form / Trauma Flow Sheet
- Other ED Documentation
- Nurses notes

National Element
- National Element ED_04 from the 2016 National Trauma Data Standard
(Initial ED/Hospital) RESPIRATORY RATE*

Data Format  [number]

Definition
First recorded respiratory rate in the ED/hospital within 30 minutes or less of ED/hospital arrival (expressed as a number per minute)

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: integer</th>
<th>XSD Element / Domain (Simple Type)</th>
<th>RespiratoryRate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td>Min. Constraint: 0</td>
<td>Max. Constraint: 120</td>
</tr>
</tbody>
</table>

Field Values
- Relevant value for data element

Additional Information
- If available, complete additional field: "Initial ED/Hospital Respiratory Assistance"
- Used to auto-generate an additional calculated field: Revised Trauma Score - ED (adult & pediatric)
- Please note that the first recorded hospital vitals do not need to be from the same assessment

Data Source
- Triage Form / Trauma Flow Sheet
- Other ED Documentation
- Nurses notes
- Respiratory Therapy Notes/Flow Sheet

National Element
- National Element ED_06 from the 2016 National Trauma Data Standard
**National & State Element**

(Initial ED/Hospital) SP02 (Oxygen Saturation)*

**Data Format**  [number]

---

**Definition**
First recorded oxygen saturation in the ED/hospital within 30 minutes or less of ED/hospital arrival (expressed as a percentage)

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: integer</th>
<th>XSD Element / Domain (Simple Type)</th>
<th>PulseOximetry</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td>Min. Constraint: 0</td>
<td>Max. Constraint: 100</td>
</tr>
</tbody>
</table>

**Field Values**
- Relevant value for data element

**Additional Information**
- If available, complete additional field: "Initial ED/Hospital Supplemental Oxygen"
- Please note that the first recorded hospital vitals do not need to be from the same assessment

**Data Source**
- Triage Form / Trauma Flow Sheet
- Other ED Documentation
- Nurses notes
- Respiratory Therapy Notes/Flow Sheet

**National Element**
- National Element ED_08 from the 2016 National Trauma Data Standard
TR 18.19

(Initial ED/Hospital) MANUAL GCS TOTAL*

Definition
First recorded Glasgow Coma Score (total) in the ED/hospital within 30 minutes or less of ED/hospital arrival

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: integer</th>
<th>XSD Element / Domain (Simple Type)</th>
<th>TotalGcs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td>Min. Constraint: 1</td>
<td>Max. Constraint: 15</td>
</tr>
</tbody>
</table>

Field Values
- Relevant value for data element

Additional Information
- Use only if total score is available without component score
- Used to auto-generate an additional calculated field: Revised Trauma Score - ED (adult & pediatric)
- If a patient does not have a numeric GCS score recorded, but with 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 the first recorded hospital vitals do not need to be from the same assessment

Data Source
- Triage Form / Trauma Flow Sheet
- Other ED Documentation
- Nurses notes
- Physician Notes

National Element
- National Element ED_13 from the 2016 National Trauma Data Standard
(Initial ED/hospital Revised Trauma Score) RTS (Total)

Data Format: [number]

Definition
A physiological scoring system used to predict death from injury or need for trauma center care. It is scored based upon the initial vital signs obtained from the patient in the ED or hospital setting.

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: integer</th>
<th>XSD Element/Domain (Simple Type)</th>
<th>RTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Config</td>
<td>No</td>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td>Min. Constraint: 0</td>
<td>Max. Constraint: 4</td>
</tr>
</tbody>
</table>

Field Values
- Relevant value for data element

Additional Information
- Use only if total score is available without component score
- Auto-generated if Manual GCS - Total is entered

Data Source
- Triage Form / Trauma Flow Sheet
- Other ED Documentation
(Initial ED/hospital Pediatric Trauma Score) PTS (Total)

Definition
A physiological scoring system used to predict death from injury or need for trauma center care. It is scored based upon the initial vital signs obtained from the patient in the ED or hospital setting for a pediatric patient.

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: integer</th>
<th>XSD Element/Domain (Simple Type)</th>
<th>PTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td>Min. Constraint: -6</td>
<td>Max. Constraint: 12</td>
</tr>
</tbody>
</table>

Field Values
- Relevant value for data element

Additional Information
- Use only if total score is available without component score

Data Source
- Triage Form / Trauma Flow Sheet
- Other ED Documentation
(Initial ED/Hospital) SUPPLEMENTAL OXYGEN*

**Definition**
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

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: integer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
</tr>
</tbody>
</table>

**Field Values**
1. No (No Supplemental Oxygen)
2. Yes (Supplemental Oxygen)

**Additional Information**
- Only completed if a value is provided for "Initial ED/Hospital Oxygen Saturation"
- Please note that the first recorded hospital vitals do not need to be from the same assessment

**Data Source**
- Triage Form / Trauma Flow Sheet
- Other ED documentation
- Nurses notes

**National Element**
- National Element ED_09 from the 2016 National Trauma Data Standard
(Initial ED/Hospital) RESPIRATORY ASSISTANCE*  

Data Format  [combo] single-choice

Definition  
Determination of respiratory assistance associated with the Initial ED/hospital respiratory rate within 30 minutes or less of ED/hospital arrival

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: integer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
</tr>
</tbody>
</table>

Field Values  
1  No (Unassisted Respiratory Rate)  
2  Yes (Assisted Respiratory Rate)

Additional Information  
- Only completed if a value is provided for "Initial ED/Hospital Respiratory Rate"
- Respiratory assistance is defined as mechanical and/or external support of respiration
- Please note that the first recorded hospital vitals do not need to be from the same assessment

Data Source  
- Triage Form / Trauma Flow Sheet
- Other ED documentation
- Nurses notes
- Respiratory Therapy Notes/Flow Sheet

National Element  
- National Element ED_07 from the 2016 National Trauma Data Standard
(Initial ED/Hospital) AIRWAY MANAGEMENT

Data Format  [combo] single-choice

Definition
Indication as to whether a device or procedure was performed to prevent or correct an obstructed respiratory passage while under the care of the ED/Hospital

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: integer</th>
<th>XSD Element / Domain (Simple Type)</th>
<th>Airway</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Field Values
1. Bag & Mask
2. BiPAP
3. Combitude
4. Cricoid
5. King Airway
6. LMA
7. Nasal Cannula
8. Non-rebreather mask
9. Nasal ETT
10. Oral Airway
11. Oral ETT
12. Trach Not
13. Performed Supplementa
14. I Oxygen
15. Simple Mask

Data Source
- Triage Form / Trauma Flow Sheet
- Other ED Documentation
**Definition**

Indication as to if CPR management was conducted while under the care of the ED/Hospital

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs:integer</th>
<th>XSD Element/Domain (Simple Type)</th>
<th>CPRPerformed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Field Values**

- 1 CPR in Progress, continued
- 2 Not Performed
- 3 Performed

**Data Source**

- Triage Form / Trauma Flow Sheet
- Other ED Documentation
UNITS OF BLOOD

Data Format  [number]

Definition
Number of units of blood (PRBC, FFP, Plts) administered to the patient in the first 24 hours

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: string</th>
<th>XSD Element/Domain (Simple Type)</th>
<th>BloodUnits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Field Values
• Relevant value for data element

Data Source
• Triage Form / Trauma Flow Sheet
• Other ED Documentation
BLOOD ORDERED DATE

Data Format  [date]

Definition
Date and time the blood was ordered for the patient in the ED/Hospital

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: string</th>
<th>XSD Element/Domain (Simple Type)</th>
<th>DateBloodOrdered</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Field Values
- Collected as MM/DD/YYYY

Data Source
- Triage Form / Trauma Flow Sheet
- Other ED Documentation
CROSSMATCH DATE

Data Format  [date]

Definition
Date and time the blood was crossmatched for the patient in the ED/Hospital

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: string</th>
<th>XSD Element/Domain (Simple Type)</th>
<th>DateCrossmatch</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Field Values
- Collected as MM/DD/YYYY

Data Source
- Triage Form / Trauma Flow Sheet
- Other ED Documentation
BLOOD ADMINISTERED DATE

Data Format  [date]

Definition
Date and time the blood was administered to the patient in the ED/Hospital

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: string</th>
<th>XSD Element/Domain (Simple Type)</th>
<th>DateBloodAdministered</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Field Values
- Collected as MM/DD/YYYY

Data Source
- Triage Form / Trauma Flow Sheet
- Other ED Documentation
**Data Format**  [combo] single-choice

**Definition**
Indication as to if the procedure was performed while under the care of the ED/Hospital

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: integer</th>
<th>XSD Element/Domain (Simple Type)</th>
<th>CTHeadStatus</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Field Values**
- 1 Positive
- 2 Negative
- 3 Not Performed

**Additional Information**
- "Positive" is defined as 'any traumatic injury'
- "Negative" is defined as 'no traumatic injury'

**Data Source**
- Triage Form / Trauma Flow Sheet
- Other ED Documentation
- Radiology Report
(Initial ED/Hospital) CT ABD/PELVIS (Results)

Data Format  [combo] single-choice

Definition
Indication as to if the procedure was performed while under the care of the ED/Hospital

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: integer</th>
<th>XSD Element/Domain (Simple Type)</th>
<th>CTAbdominalStatus</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Field Values
1  Positive  2  Negative  3  Not Performed

Additional Information
- "Positive" is defined as 'any traumatic injury'
- "Negative" is defined as 'no traumatic injury'

Data Source
- Triage Form / Trauma Flow Sheet
- Other ED Documentation
- Radiology Report
(Initial ED/Hospital) CT CHEST (Results)

**Data Format**  [combo] single-choice

---

**Definition**
Indication as to if the procedure was performed while under the care of the ED/Hospital

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: integer</th>
<th>XSD Element/Domain (Simple Type)</th>
<th>CTAbdominalStatus</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Field Values**
1. Positive
2. Negative
3. Not Performed

**Additional Information**
- "Positive" is defined as 'any traumatic injury'
- "Negative" is defined as 'no traumatic injury'

**Data Source**
- Triage Form / Trauma Flow Sheet
- Other ED Documentation
- Radiology Report
Definition
Indication as to if the procedure was performed while under the care of the ED/Hospital

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: integer</th>
<th>XSD Element/Domain (Simple Type)</th>
<th>CTCervicalStatus</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Field Values
1 Positive
2 Negative
3 Not Performed

Additional Information
• "Positive" is defined as 'any traumatic injury'
• "Negative" is defined as 'no traumatic injury'

Data Source
• Triage Form / Trauma Flow Sheet
• Other ED Documentation
• Radiology Report
(Initial ED/Hospital) DATE SENT TO CT

Data Format: [date]

**Definition**

The date the patient had a CT performed while under the care of the ED/Hospital

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: string</th>
<th>XSD Element/Domain (Simple Type)</th>
<th>InitialEDHospitalTimeSentToCT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Field Values**

- Collected as MM/DD/YYYY

**Data Source**

- Triage Form / Trauma Flow Sheet
- Other ED Documentation
(Initial ED/Hospital) TIME SENT TO CT

Data Format  [time]

Definition
The time the patient had a CT performed while under the care of the ED/Hospital

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: string</th>
<th>XSD Element/Domain (Simple Type)</th>
<th>InitialEDHospitalTimeSentToCTTime</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Field Values
- Relevant value for data element

Additional Information
- Collected as HHMM
- HHMM should be collected in military time

Data Source
- Triage Form / Trauma Flow Sheet
- Other ED Documentation
(Initial ED/Hospital) ABDOMINAL ULTRASOUND DATE

Data Format: [date]

**Definition**
The date the abdominal ultrasound was performed on the patient while under the care of the ED/Hospital

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: string</th>
<th>XSD Element/Domain (Simple Type)</th>
<th>InitialEDHospitalAbdominalUltrasoundDate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Field Values**
- Collected as MM/DD/YYYY

**Data Source**
- Triage Form / Trauma Flow Sheet
- Other ED Documentation
(Initial ED/Hospital) ABDOMINAL ULTRASOUND TIME

Data Format  [time]

Definition
The time the abdominal ultrasound was performed on the patient while under the care of the ED/Hospital

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: string</th>
<th>XSD Element/Domain (Simple Type)</th>
<th>InitialEDHospitalAbdominalUltrasoundTime</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Field Values
- Collected as HHMM
- HHMM should be collected in military time

Data Source
- Triage Form / Trauma Flow Sheet
- Other ED Documentation
(Initial ED/Hospital) ABDOMINAL ULTRASOUND (Results)

**Data Format**  [combo] single-choice

### Definition

Indication as to if the procedure was performed while under the care of the ED/Hospital

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: integer</th>
<th>XSD Element/Domain (Simple Type)</th>
<th>InitialEDHospitalDPAUltrasound</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Field Values

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Positive</td>
<td>2</td>
</tr>
</tbody>
</table>

### Additional Information

- "Positive" is defined as 'any traumatic injury'
- "Negative" is defined as 'no traumatic injury'

### Data Source

- Triage Form / Trauma Flow Sheet
- Other ED Documentation
- Radiology Report
(Initial ED/Hospital) ARTERIOGRAM (Results)

Data Format [combo] single-choice

Definition
Indication as to if the procedure was performed while under the care of the ED/Hospital

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: integer</th>
<th>XSD Element/Domain (Simple Type)</th>
<th>InitialEDHospitalDPArteriogram</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Field Values
1 Positive
2 Negative

Additional Information
- "Positive" is defined as 'any traumatic injury'
- "Negative" is defined as 'no traumatic injury'

Data Source
- Triage Form / Trauma Flow Sheet
- Other ED Documentation
- Radiology Report
### (Initial ED/Hospital) AORTOGRAM (Results)

**Data Format**  
[combo] single-choice

---

**Definition**  
Indication as to if the procedure was performed while under the care of the ED/Hospital

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: integer</th>
<th>XSD Element/Domain (Simple Type)</th>
<th>Multiple Entry Configuration</th>
<th>Accepts Null Value</th>
<th>Required in XSD</th>
<th>XSD Element/Domain (Simple Type)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>InitialEDHospitalDPAortogram</td>
<td>No</td>
<td>Yes, common null values</td>
<td>Yes</td>
<td></td>
</tr>
</tbody>
</table>

**Field Values**  
1  Positive  
2  Negative

**Additional Information**  
- "Positive" is defined as 'any traumatic injury'  
- "Negative" is defined as 'no traumatic injury'

**Data Source**  
- Triage Form / Trauma Flow Sheet  
- Other ED Documentation  
- Radiology Report
ALCOHOL USE INDICATOR*
Data Format [combo] single-choice

Definition
Use of alcohol by the patient.

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: integer</th>
<th>XSD Element / Domain (Simple Type)</th>
<th>AlcoholUseIndicators</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Field Values
1. No (Not Tested)
2. No (confirmed by test)
3. Yes (confirmed by test [trace levels])
4. Yes (confirmed by test [beyond legal limit])

Additional Information
- Blood alcohol concentration (BAC) may be documented at any facility, unit or setting treating this patient event
- If alcohol use is "Yes", complete variable: Blood Alcohol Content (BAC)
- "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. Above any legal limit, DUI, DWI, or DWAI, would apply here
- If alcohol use is suspected, but not confirmed by test, record null value "Not Known/Not Recorded"

Data Source
- Lab results (facility specific; inter-facility data not valid)
- ED Physicians Notes
- Nursing Notes
- History & Physical

National Element
- National Element ED_17 from the 2016 National Trauma Data Standard
BLOOD ALCOHOL CONTENT (BAC)

Data Format: [number]

Definition
Indicates the measure of ethyl alcohol in a blood sample obtained from the patient for laboratory examination (reported in mg/dl)

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: string</th>
</tr>
</thead>
<tbody>
<tr>
<td>XSD Element/Domain (Simple Type)</td>
<td>bloodalcoholcontent</td>
</tr>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
</tr>
<tr>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
</tr>
</tbody>
</table>

Field Values
- Relevant value for data element

Additional Information
- Blood alcohol concentration (BAC) may be documented at any facility (or setting) treating this patient event
- Only completed when "Alcohol Use Indicator" is selected as "Yes"

Data Source
- Lab results (facility specific; inter-facility data not valid)
**Definition**

The first recorded base deficit (the arterial blood gas component showing the degree of acid/base imbalance), measured in mEq/L

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: string</th>
<th>XSD Element/Domain (Simple Type)</th>
<th>InitialEDHospitalBaseDeficit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Field Values**

- Relevant value for data element

**Data Source**

- Lab results (facility specific; inter-facility data not valid)
DRUG USE INDICATOR*

Data Format: [combo] multiple-choice

Definition
Use of drugs by the patient

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: integer</th>
<th>XSD Element / Domain (Simple Type)</th>
<th>DrugUseIndicator</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>Yes, max 2</td>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Field Values

1. No (not tested)
2. No (confirmed by test)
3. Yes (confirmed by test [rX drug])
4. Yes (confirmed by test [illegal use drug])
3, 4. Yes (confirmed by test [rX & illegal use drug])

Additional Information

- Blood alcohol concentration (BAC) may be documented at any facility, unit, or setting treating this patient event.
- If positive, indicate classification or drug specific information
- "Illegal use drug" includes illegal use of prescription drugs
- If drug use is suspected, but not confirmed by test, record null value "Not Known / Not Recorded"
- This data element refers to drug use by the patient and does not include medical treatment
- Check all that apply

Data Source

- Lab results (facility specific; inter-facility data not valid)
- ED Physician Documentation
- Triage/Trauma/Hospital Flow Sheet
- History & Physical

National Element

- National Element ED_18 from the 2016 National Trauma Data Standard
**Definition**

Laboratory test used to detect the presence of drugs in the patient’s blood. Enter the drugs present when drug screening was performed in ED. You may enter more than one drug. Do not include drugs given to the patient during any phase of resuscitation.

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: integer</th>
<th>XSD Element/Domain (Simple Type)</th>
<th>DrugInvolvementDrug</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>Yes</td>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Field Values**

1. Amphetamine
2. Antidepressants (including Tricyclics)
3. Barbiturate
4. Benzodiazepines (Valium)
5. Cocaine
6. Ethanol
7. Marijuana (cannabis)
8. Methamphetamines
9. Opiates (including Propoxyphene)
10. PCP

**Additional Information**

- Drug use may be documented at any facility (setting) treating this patient event.
- Only completed when "Drug Use Indicator" is selected as "Yes".

**Data Source**

- Lab results (facility specific; inter-facility data not valid)
- ED Physician Documentation
Diagnosis Information
ICD-9 CODE (Injury Diagnosis)*

Data Format  [combo] multiple-choice

Definition
Diagnoses related to all identified injuries. Injury diagnoses as defined by (ICD-CM) codes.

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: string</th>
<th>XSD Element / Domain (Simple Type)</th>
<th>InjuryDiagnosis</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Config</td>
<td>Yes, max 50</td>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Field Values
- Injury diagnoses as defined by ICD-9-CM range: 800-959.9m except for 905-909.9, 910-924.9, 930-939.9
- The maximum number of diagnoses that may be reported for an individual patient is 50

Additional Information
- ICD-9-CM codes pertaining to other medical conditions (e.g., CVA, MI, comorbidities, etc.) may also be included in this field
- Used to auto-generate eight additional calculated fields: Abbreviated Injury Scale (six body regions), Injury Severity Score, and the Functional Capacity Index
- The null value "Not Applicable" is used if not coding ICD-9.

Data Source
- Hospital Discharge Summary
- Billing Sheet / Medical Records Coding Summary Sheet
- Trauma Flow Sheet
- ER and ICU Records
- History and Physical
- Physician’s Documentation
- Nurses’ Notes
- Other Hospital Documentation
- Autopsy/Medical Examiner Report
- Progress Notes
National Element

- National Element DG_02 from the 2016 National Trauma Data Standard
AIS 05 (Predot) CODE*

Data Format  [combo] multiple-choice

Definition
The Abbreviated Injury Scale (AIS) predot codes that reflect the patient's injuries

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: integer</th>
<th>XSD Element / Domain (Simple Type)</th>
<th>AisPredot</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>Yes, max 50</td>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Field Values
- The predot code is the 6 digits preceding the decimal point in an associated AIS code

Additional Information
- This variable is considered optional and is not required as part of the State dataset

Data Source
- Hospital Discharge Summary
- History and Physical
- Physician's Documentation
- Nurses’ Notes
- Other Hospital Documentation

National Element
- National Element IS_01 from the 2016 National Trauma Data Standard
AIS VERSION*

Data Format [text]

Definition
The software (and version) used to calculate Abbreviated Injury Scale (AIS) severity codes

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: integer</th>
<th>XSD Element / Domain (Simple Type)</th>
<th>AisVersion</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Field Values
1  AIS 80 (Retired 2016)  4  AIS 95 (Retired 2016)
2  AIS 85 (Retired 2016)  5  AIS 98 (Retired 2016)
3  AIS 90 (Retired 2016)  6  AIS 05, Update 08

Additional Information

National Element
- National Element IS_03 from the 2016 National Trauma Data Standard
ICD-10 CODE (Injury Diagnosis)*

Data Format  [combo] multiple-choice

Definition
Diagnoses related to all identified injuries. Injury diagnoses as defined by (ICD-10-CM) codes.

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: string</th>
</tr>
</thead>
<tbody>
<tr>
<td>XSD Element / Domain (Simple Type)</td>
<td>Diagnosis Icd10</td>
</tr>
<tr>
<td>Multiple Entry Configuration</td>
<td>Yes, max 100</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
</tr>
</tbody>
</table>

Field Values
- The maximum number of diagnoses that may be reported for an individual patient is 50

Additional Information
- ICD-10-CM codes pertaining to other medical conditions (e.g., CVA, MI, comorbidities, etc.) may also be included in this field
- Used to auto-generate eight additional calculated fields: Abbreviated Injury Scale (six body regions), Injury Severity Score, and the Functional Capacity Index
- The null value "Not Applicable" is used if not coding ICD-10.

Data Source
- Hospital Discharge Summary
- Billing Sheet / Medical Records Coding Summary Sheet
- Trauma Flow Sheet
- ER and ICU Records
- History and Physical
- Physician’s Documentation
- Nurses’ Notes
- Other Hospital Documentation
- Autopsy/Medical Examiner Report
- Progress Notes

National Element
- National Element DG_03 from the 2016 National Trauma Data Standard
**ISS (Body) REGION**

**Data Format**  [number]

**Definition**
The Injury Severity Score (ISS) body region codes that reflect the patient’s injuries.

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: integer</th>
<th>XSD Element / Domain (Simple Type)</th>
<th>IssRegion</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>Yes, max 50</td>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td>Min. Constraint: 1</td>
<td>Max. Constraint: 6</td>
</tr>
</tbody>
</table>

**Field Values**
- 1 Head or Neck
- 2 Face
- 3 Chest
- 4 Abdominal or pelvic contents
- 5 Extermities or pelvic girdle
- 6 External

**Additional Information**
- Auto-calculated once AIS code is typed in
- This variable is considered optional and is not required as part of the State dataset
- Head or neck injuries include injury to the brain or cervical spine, skull or cervical spine fractures
- Facial injuries include those involving mouth, ears, nose and facial bones
- Chest injuries include all lesions to internal organs. Chest injuries also include those to the diaphragm, rib cage, and thoracic spine
- Abdominal or pelvic contents injuries include all lesions to internal organs. Lumbar spine lesions are included in the abdominal or pelvic region
- Injuries to the extremities or to the pelvic or shoulder girdle include sprains, fractures, dislocations, and amputations, except for the spinal column, skull and rib cage
- External injuries include lacerations, contusions, abrasions, and burns, independent of their location on the body surface

**Data Source**
- Hospital Discharge Summary
- History and Physical
- Physician's Documentation
- Nurses’ Notes
- Other Hospital Documentation

**National Element**
- National Element IS_03 from the 2016 National Trauma Data Standard
AIS BASED INJURY SEVERITY SCORES BY DIAGNOSIS*

**Data Format**  [number]

**Definition**
The Abbreviated Injury Scale (AIS) severity codes that reflect the patient's injuries.

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: integer</th>
<th>XSD Element / Domain (Simple Type)</th>
<th>AisSeverity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>Yes, max 50</td>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td>Min. Constraint: 1</td>
<td>Max. Constraint: 9</td>
</tr>
</tbody>
</table>

**Field Values**
1. Minor Injury
2. Moderate Injury
3. Serious Injury
4. Severe Injury
5. Critical Injury
6. Maximum Injury, Virtually Insurvivable
7. Not Possible to Assign

**Additional Information**
- The field value (9) "Not Possible to Assign" would be chosen if it is not possible to assign a severity to an injury.

**Data Source**
- Hospital Discharge Summary
- History and Physical
- Physician's Documentation
- Nurses' Notes
- Other Hospital Documentation

**National Element**
- National Element IS_02 from the 2016 National Trauma Data Standard
MANUAL (Locally Calculated ISS)*

Data Format [number]

Definition
The Injury Severity Score (ISS) that reflects the patient's injuries

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: integer</th>
<th>XSD Element / Domain (Simple Type)</th>
<th>IssLocal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td>Min. Constraint: 1</td>
<td>Max. Constraint: 75</td>
</tr>
</tbody>
</table>

Field Values
- Auto-calculated once AIS scores are typed in
- Relevant ISS value for the constellation of injuries

Additional Information
- This variable is considered optional and is not required as part of the State dataset

Data Source
- Hospital Discharge Summary
- History and Physical
- Physician's Documentation
- Nurses' Notes
- Other Hospital Documentation

National Element
- National Element IS_05 from the 2016 National Trauma Data Standard
Comorbidity Information
**CO-MORBID CONDITIONS**

**Data Format**  [combo] multiple-choice

**Definition**
Pre-existing co-morbid factors present before patient arrival at the ED/Hospital.

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: integer</th>
<th>XSD Element / Domain (Simple Type)</th>
<th>ComorbidCondition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>Yes</td>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Field Values**

- 1 Other
- 2 Alcohol Use Disorder (Alcoholism)
- 3 Ascites within 30 days *(Retired 2015)*
- 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 Esophageal varices *(Retired 2015)*
- 15 Functionally dependent health status
- 16 History of angina within 30 days
- 17 History of myocardial infarction
- 18 History of Peripheral Vascular Disease (PVD)
- 19 Hypertension requiring medication
- 20 Impaired sensorium *(Retired 2012)*
- 21 Prematurity
- 22 Obesity *(Retired 2015)*
- 23 Chronic Obstructive Pulmonary Disease (COPD)
- 24 Steroid Use
- 25 Cirrhosis
- 26 Dementia
- 27 Major psychiatric illness
- 28 Drug Abuse or dependence
- 29 Pre-hospital cardiac arrest with resuscitative efforts by healthcare provider *(Retired 2015)*
- 30 Attention deficit disorder/attention deficit hyperactivity disorder (ADD/ADHD)

**Additional Information**
- The null value "Not Applicable" is used for patients with no known co-morbid conditions
- Refer to Appendix 3: National Glossary of Terms for definition of Co-Morbid Conditions
- Select all that apply
  For any Co-Morbid condition 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."

**Data Source**
- History and Physical
- Discharge Sheet
- Billing Sheet
- Physician’s Documentation
- Nurses’ Notes
- Other Hospital Documentation
Case Mgmt/Social Services  •  Triage/Trauma Flow Sheet

National Element
• National Element DG_01 from the 2016 National Trauma Data Standard
CO-MORBID CONDITION NOTES

Data Format  [text]

**Definition**
Additional information about the pre-existing medical conditions

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: string</th>
<th>XSD Element/Domain (Simple Type)</th>
<th>COMBDTY_ID</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>Yes</td>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td>Min Constraint: 0</td>
<td>Max Constraint: 2000</td>
</tr>
</tbody>
</table>

**Field Values**
- Relevant value for data element

**Data Source**
- History and Physical
- Physician's Documentation
- Nurses' Notes
- Other Hospital Documentation
Procedures Information
PROCEDURE PERFORMED

Data Format  [combo] single-choice

Definition
Indicates whether there are ICD-9 codes for procedures to report or not

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: integer</th>
<th>XSD Element/Domain (Simple Type)</th>
<th>ProcedurePerformed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Field Values
1  No
2  Yes

Data Source
- Operative Reports
- Triage Form / Trauma Flow Sheet
- Nurses’ Documentation
- Physician Documentation
- Anesthesia Record
- Billing Sheet / Medical Records Coding Summary Sheet
- Hospital Discharge Summary
ICD-9 CODE (Hospital Procedures)*

Data Format  [combo] multiple-choice

**Definition**
Operative and selected non-operative procedures conducted during hospital stay. Operative and selected non-operative procedures are those that were essential to the diagnosis, stabilization, or treatment of the patient's specific injuries or complications.

The list of procedures below should be used as a guide to non operative procedures that should be provided to the state. Not all hospitals capture all procedures listed below. Please transmit those procedures that you capture to the state.

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: string</th>
<th>XSD Element / Domain (Simple Type)</th>
<th>HospitalProcedure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>Yes, max 200</td>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Field Values**
- Major and minor procedure ICD-9-CM procedure codes
- The maximum number of procedures that may be reported for a patient is 200

**Additional Information**
- Include only procedures performed at your institution
- Capture all procedures performed in the operating room
- Capture all procedures in the ED, ICU, ward, or radiology department that were essential to the diagnosis, stabilization, or treatment of the patient's specific injuries or their complications
- Procedures with an asterisk have the potential to be performed multiple times during one episode of hospitalization. In this case, capture only the first event. If there is no asterisk, capture each event even if there is more than one.
- Note that the hospital may capture additional procedures
- Select "Not Applicable" for the Procedure Performed (TR22.30) variable if patient did not have procedures
- The null value "Not Applicable" is used if not coding ICD-9.

**Data Source**
- Operative Reports
- ER and ICU Records
- Triage Form / Trauma Flow Sheet
- Nurses’ Documentation
- Physician Documentation
- Anesthesia Record
- Billing Sheet / Medical Records Coding Summary Sheet
- Hospital Discharge Summary
Diagnostic & Therapeutic Imaging
Computerized tomographic studies *
Diagnostic ultrasound (includes FAST) *
Doppler ultrasound of extremities*
Angiography
Angioembolization
Echocardiography
Cystogram
IVC filter
Urethrogram

Genitourinary
Ureteric catheterization (i.e. Ureteric stent)
Suprapubic cystostomy

Transfusion
The following blood products should be captured over first 24 hours after hospital arrival:
Transfusion of red cells *
Transfusion of platelets *
Transfusion of plasma *

In addition to coding the individual blood products listed above assign the 99.01 ICD-9 procedure code on patients that receive > 10 units of blood products over first 24 hours following hospital arrival *
For pediatric patients (age 14 and under), assign 99.01 ICD-9 procedure code on patients that receive 40cc/kg of blood products over first 24 hours following hospital arrival*

Cardiovascular
Central venous catheter *
Pulmonary artery catheter *
Cardiac output monitoring *
Open cardiac massage
CPR

CNS
Insertion of ICP monitor *
Ventriculostomy *
Cerebral oxygen monitoring *

Respiratory
Insertion of endotracheal tube *
Continuous mechanical ventilation *
Chest tube *
Bronchoscopy *
Tracheostomy
Open cardiac massage
CPR

Gastrointestinal
Endoscopy (includes gastroscopy, sigmoidoscopy, colonoscopy)
Gastrostomy / jejunostomy (percutaneous or endoscopic)
Percutaneous (endoscopic) gastrojejunoscopy

Other
Hyperbaric oxygen
Decompression chamber
TPN *

Musculoskeletal
Soft tissue / bony debridements *
Closed reduction of fractures
Skeletal and halo traction
Fasciotomy

National Element
- National Element HP_01 from the 2016 National Trauma Data Standard
ICD-10 CODE (Hospital Procedures)*

Data Format [combo] multiple-choice

**Definition**
Operative and selected non-operative procedures conducted during hospital stay. Operative and selected non-operative procedures are those that were essential to the diagnosis, stabilization, or treatment of the patient's specific injuries or complications.

The list of procedures below should be used as a guide to non operative procedures that should be provided to the state. Not all hospitals capture all procedures listed below. Please transmit those procedures that you capture to the state.

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: string</th>
<th>XSD Element / Domain (Simple Type)</th>
<th>HospitalProcedureIcd10</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>Yes, max</td>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
</tbody>
</table>

| Required in XSD | Yes |

**Field Values**
- Major and minor procedure ICD-10-CM procedure codes
- The maximum number of procedures that may be reported for a patient is 200

**Additional Information**
- Include only procedures performed at your institution
- Capture all procedures performed in the operating room
- Capture all procedures in the ED, ICU, ward, or radiology department that were essential to the diagnosis, stabilization, or treatment of the patient's specific injuries or their complications
- Procedures with an asterisk have the potential to be performed multiple times during one episode of hospitalization. In this case, capture only the first event. If there is no asterisk, capture each event even if there is more than one.
- Note that the hospital may capture additional procedures
- Select "Not Applicable" for the Procedure Performed (TR22.30) variable if patient did not have procedures
- The null value "Not Applicable" is used if not coding ICD-10.

**Data Source**
- Operative Reports
- ER and ICU Records
- Triage Form / Trauma Flow Sheet
- Nurses’ Documentation
- Physician Documentation
- Anesthesia Record
- Billing Sheet / Medical Records Coding Summary Sheet
- Hospital Discharge Summary

**Diagnostic & Therapeutic Imaging**
- Genitourinary
Computerized tomographic studies *
Diagnostic ultrasound (includes FAST) *
Doppler ultrasound of extremities *
Angiography
Angioembolization
Echocardiography
Cystogram
IVC filter
Urethrogram

Ureteric catheterization (i.e. Ureteric stent)
Suprapubic cystostomy

Transfusion
The following blood products should be captured over first 24 hours after hospital arrival:
Transfusion of red cells *
Transfusion of platelets *
Transfusion of plasma *

Cardiovascular
Central venous catheter *
Pulmonary artery catheter *
Cardiac output monitoring *
Open cardiac massage
CPR

CNS
Insertion of ICP monitor *
Ventriculostomy *
Cerebral oxygen monitoring *

Gastrointestinal
Endoscopy (includes gastroscopy, sigmoidoscopy, colonoscopy)
Gastrostomy / jejunostomy (percutaneous or endoscopic)
Percutaneous (endoscopic) gastrojejunoscopy

Musculoskeletal
Soft tissue / bony debridements *
Closed reduction of fractures
Skeletal and halo traction
Fasciotomy

In addition to coding the individual blood products listed above assign the 99.01 ICD-9 procedure code on patients that receive > 10 units of blood products over first 24 hours following hospital arrival *
For pediatric patients (age 14 and under), assign 99.01 ICD-9 procedure code on patients that receive 40cc/kg of blood products over first 24 hours following hospital arrival *

Respiratory
Insertion of endotracheal tube *
Continuous mechanical ventilation *
Chest tube *
Bronchoscopy *
Tracheostomy
Open cardiac massage
CPR

Other
Hyperbaric oxygen
Decompression chamber
TPN *

National Element

National Element HP_02 from the 2016 National Trauma Data Standard
(Procedure Performed) LOCATION

Data Format [combo] single-choice

Definition
The hospital location where the procedure was performed.

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: integer</th>
<th>XSD Element/Domain (Simple Type)</th>
<th>ProcedureLocation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Field Values
1. Minor Surgery Unit
2. Nuclear Medicine
3. Observation
4. Other
5. Outpatient Clinic
6. Recovery
7. Rehabilitation
8. Scene
9. Special Procedure Unit
10. Step-Down
11. Transport from Scene
12. Catherization Lab
13. ED
14. Floor
15. GI Lab
16. ICU
17. OR
18. Other
19. Radiology
20. Readmit OR (planned OR)
21. Tele

Data Source
- Operative Reports
- Triage Form / Trauma Flow Sheet
- Nurses’ Documentation
- Physician Documentation
- Anesthesia Record
- Billing Sheet / Medical Records Coding Summary Sheet
- Hospital Discharge Summary
(Hospital Procedure) DATE STARTED*

Data Format  [date]

Definition
The date operative and selected non-operative procedures were performed.

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: date</th>
<th>XSD Element / Domain (Simple Type)</th>
<th>HospitalProcedureStartDate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>Yes</td>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td>Min. Constraint: 1990</td>
<td>Max. Constraint: 2030</td>
</tr>
</tbody>
</table>

Field Values
- Relevant value for data element

Additional Information
- Collected as MM/DD/YYYY

Data Source
- OR Nurses' Notes
- Operative Reports
- Anesthesia Record
- Procedure Notes
- Trauma Flow Sheet
- ED Record
- Radiology Reports
- Discharge Summary

National Element
- National Element HP_03 from the 2016 National Trauma Data Standard
(Hospital Procedure Start) TIME*

**Data Format**  [time]

**Definition**
The time operative and selected non-operative procedures were performed

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: time</th>
<th>XSD Element / Domain (Simple Type)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>HospitalProcedureStartTime</td>
</tr>
<tr>
<td>Multiple Entry Configuration</td>
<td>Yes</td>
<td>Accepts Null Value</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td>Min. Constraint: 00:00</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Max. Constraint: 23:59</td>
</tr>
</tbody>
</table>

**Field Values**
- Relevant value for data element

**Additional Information**
- Collected as HHMM
- HHMM should be collected as military time
- 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

**Data Source**
- OR Nurses' Notes
- Operative Reports
- Anesthesia Record
- Procedure Notes
- Trauma Flow Sheet
- ED Record
- Radiology Reports
- Discharge Summary

**National Element**
- National Element HP_04 from the 2016 National Trauma Data Standard
(Physician Performing the Procedure) STAFF

Data Format  [combo] single-choice

Definition
Physician performing the procedure

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<tr>
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</table>

Field Values
- Relevant value for data element

Data Source
- OR Nurses’ Notes
- Operative Reports
- Anesthesia Record
SERVICE TYPE (of the Physician)

Data Format  [combo] single-choice

Definition
Service type of the physician.

<table>
<thead>
<tr>
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</tr>
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</table>

Field Values
1 Critical Care Medicine
2 Ear Nose Throat
3 Emergency Medicine
4 Gastroenterology
5 Gynecology
6 General Surgery
7 Hand Surgery
8 Medicine
9 Neurosurgery
10 Obstetrics
11 Oral Maxillo Facial Surgery
12 Ophthalmology
13 Orthopedic Surgery
14 Pediatric Surgery
15 Pediatric Orthopedic
16 Plastic Surgery
17 Radiology
18 Thoracic Surgery
19 Trauma Surgery
20 Urology
21 Vascular Surgery

Data Source
• OR Nurses' Notes
• Operative Reports
• Anesthesia Record
(Procedure) COMMENTS
Data Format  [text]

Definition
Additional information about the procedure

<table>
<thead>
<tr>
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</thead>
</table>

Field Values
- Relevant value for data element

Data Source
- OR Nurses’ Notes
- Operative Reports
- Anesthesia Record
RESOURCES UTILIZATION

Data Format  [combo] single-choice

Definition
A list of resources used during the treatment and care of the patient

<table>
<thead>
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<th>XSD Data Type</th>
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<tr>
<td>Required in XSD</td>
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<td></td>
<td></td>
</tr>
</tbody>
</table>

Field Values
1. Adult Protective Service
2. Bi-Pap
3. Case Management
4. Cerebral Brain Flow Studies
5. Child Protective Service
6. CRRT
7. Dialysis
8. Epidural Catheter
9. Exceeds LOS
10. Factor VIIa (Novoseven)
11. High dose methylprednisolone
12. Hypertonic Saline
13. Level-1 Blood/Fluid Warmer
14. LiCox Monitor
15. Massive Blood Transfusion
16. Miami J Collar
17. MRI
18. None
19. Nutritionist
20. Occupational Therapy
21. Pentobarbital Coma
22. Peripheral Parenteral Nutrition (PPN)
23. Physical Therapy
24. PICC line
25. PRISMA (CVVHD)
26. Respiratory Therapy
27. RN accompanied transfer
28. Specialized Bed
29. Speech Therapy
30. TLSO Brace
31. Total Parenteral Nutrition (TPN)
32. Traction
33. Transfusion of FFP
34. Transfusion of Platelets
35. Transfusion of PRBC
36. Tube Feeding
37. Uncrossmatched Blood
38. Vaccine Post-Splenectomy
39. Venous Doppler
40. Wound Care RN
41. Wound Vacuum

Data Source
- OR Nurses' Notes
- Operative Reports
- Anesthesia Record
Complications/Performance Improvement Information
(Hospital) COMPLICATIONS*

Data Format  [combo] single-choice

Definition
Any medical complication that occurred during the patient's stay at your hospital.

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: integer</th>
<th>XSD Element / Domain (Simple Type)</th>
<th>HospitalComplications</th>
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<td>Required in XSD</td>
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</tbody>
</table>

Field Values
1  Cardiovascular  10  No Complications
2  Gastrointestinal  11  Prehospital Airway
3  Hematologic  12  Prehospital Fluids
4  Hepatic, Pancreatic, Biliary, Splenic  13  Prehospital Miscellaneous
5  Hospital Airway Infection (Nonpulmonary, Nonorthopedic)  14  Provider Errors/Delays
6  Miscellaneous  15  Psychiatric
7  Musculoskeletal / Integumentary  16  Pulmonary
8  Neurologic  17  Renal/Genitourinary
9  

Additional Information
- The value "Not Applicable" can also be used for patients with no complications
- Refer to Appendix 3: National Glossary of Terms for definitions of Complications
- Select all that apply

National Element
- National Element Q_01 from the 2016 National Trauma Data Standard

Data Source Hierarchy
- Discharge Sheet
- History and Physical
- Billing sheet
(Hospital) COMPLICATIONS (Sub Categories)*
Data Format [combo] single-choice

Definition
Any medical complication that occurred during the patient's stay at your hospital

<table>
<thead>
<tr>
<th>Data Type</th>
<th>xs:integer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
</tr>
</tbody>
</table>

Multiple Entry Configuration N
Accepts Null Value Yes, common null values

Field Values

**Cardiovascular**
- Arrhythmia
- Base Deficit (Retired 2011)
- Bleeding (Retired 2011)
- Cardiac Arrest (unexpected)
- Cardiac Arrest with CPR
- Cardiogenic Shock
- **Congestive Heart Failure**
- Myocardial Infarction
- Pericardial Effusion or Tamponade Shock
- Unplanned intubation

**Infection (Nonpulmonary, Nonorthopedic)**
- Bacteremia
- Catheter-Related Blood Stream Infection (Retired 2016)
- Central line-associated blood stream infection (CLABSI) **NEW 2016**
- Cellulitis/traumatic injury
- Deep surgical site infection
- Disseminated fungal infection
- Organ/space surgical site infection
- Sepsis-like syndrome
- Septicemia

**Neurologic**
- Alcohol Withdrawal Coma (Retired 2011)
- Drug or alcohol withdrawal syndrome
- Intracranial pressure (Retired 2011)
- Stroke/CVA

**Renal/Genitourinary**
- Acute kidney injury
- Ureteral injury
- Urinary tract infection (Retired 2016)
- Urinary tract infection, Early
- Urinary tract infection, Early

**Vascular**
- Deep vein thrombosis (DVT)
- Graft/prosthesis/flap failure (Retired 2016)
- Shock
- Sepsis-like syndrome
- Esophageal Intubation (Prehospital Airway)
- Exubation, Unintentional (Prehospital Airway)

**Prehospital Airway**
- Aspiration
- Septicemia
**Gastrointestinal**
- Abdominal compartment syndrome (Retired 2011)
- Abdominal fascia (Retired 2011)
- Anastomotic Leak
- Bowel Injury-lateral
- Dehiscence/evisceration
  Enterotony-lateral
- Small Bowel
- Obstruction
- Ulcer-Duodenal/gastric
  Wound disruption

**Hematologic**
- Coagulopathy (Retired 2011)

**Hepatic, Pancreatic, Biliary, Splenic**
- Acalulous Choleystitis
- Hepatitis

- Jaundice
- Liver Failure
- Other Hepatic/biliary
  Pancreatic Fistula

**Pancreatitis**
- Splenic Injury (iatrogenic)

**Miscellaneous**
- Drug
  Prehospital Delay
- Unplanned return to the ICU
- Unplanned return to the OR

**Musculoskeletal/Integumentary**
- Compartmental Syndrome
- Decubitus (blister)
  Decubitus (deep)

- Decubitus (minor)
- Decubitus (open sore)
- Decubitus ulcer
  Extremity compartment syndrome
  Skin breakdown

- Yeast infection

**Mainstem Intubation**
- Prehospital Airway

**Prehospital Fluids**
- Inappropriate Fluid Management
- Unable to Start IV

**Prehospital Miscellaneous**
- Other Prehospital Fluid

**Provider Errors/Delays**

**Psychiatric**

**Pulmonary**
- Acute respiratory distress syndrome
- Aspiration/pneumonia
- Atelectasis
- Catheter-associated urinary tract infection (CAUTI)

**NEW 2016**
- Empyema

- Pneumonia
- Pneumothorax
  (iatrogenic)
- Pneumothorax (recurrent)
- Pneumothorax (tension)
- Pneumothorax (barotrauma)
Pulmonary Edema
• Pulmonary embolism
• Respiratory failure
• Upper Airway Obstruction
• Ventilator-associated pneumonia (VAP)
• NEW 2016

Additional Information
• A number indicates complications recognized by the NTDB.
• The value "Not Applicable" should be used for patients with no complications.
• Refer to Appendix 3: National Glossary of Terms for definitions of complications.
  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.
• Select all that apply.

Data Source Hierarchy
• Discharge Sheet
  • History and Physical
  • Billing sheet
  • Physician Notes
  • Operative Report
• Progress Notes
• Radiology Report
• Respiratory Notes
• Lab Reports
• Nursing Notes/Flow Sheet

National Element
• National Element Q_01 from the 2016 National Trauma Data Standard
(Complication) STATUS
Data Format: [radio]

Definition
The status of the complication.

<table>
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<tr>
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</tbody>
</table>

Field Values
1. Open
2. Close
(Complication) OCCURRENCE DATE

Data Format  [date]

Definition
The date that the complication was first documented

<table>
<thead>
<tr>
<th>XSD Data Type</th>
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<th>XSD Element/Domain (Simple Type)</th>
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<td>Required in XSD</td>
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</table>

Field Values
• Relevant value for data element

Additional Information
• Collected as MM/DD/YYYY
(Complication) OCCURRENCE TIME

Data Format  [time]

Definition
The time that the complication was first documented

<table>
<thead>
<tr>
<th>XSD Data Type</th>
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Field Values
- Relevant value for data element

Additional Information
- Collected as HHMM
(Complication) LOCATION OF OCCURRENCE

Data Format [combo] single-choice

**Definition**

The location that the complication occurred

<table>
<thead>
<tr>
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</tbody>
</table>

**Field Values**

1. Burn Unit
2. Catherization Lab
3. ED
4. Floor Bed
5. GI Lab
6. ICU
7. OR
8. Pre-Hospital
9. PTA (Referring Hospital)
10. Radiology
11. Readmit OR (planned OR)
12. Telemetry / Step-Down Unit
COMPLICATION STAFF INVOLVED

Data Format  [combo] multiple-choice

Definition
Staff involved with the complication

<table>
<thead>
<tr>
<th>XSD Data Type</th>
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<th>XSD Element/Domain (Simple Type)</th>
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</table>

Field Values
- Relevant value for data element

Additional Information
- Press and hold "CTRL" key to select multiple values
(Complication) PR DATE

Data Format [date]

Definition
Complications peer review date

<table>
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<tr>
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Field Values
• Relevant value for data element

Additional Information
• Collected as MM/DD/YYYY
(Complication) PR TIME
Data Format  [time]

Definition
Complications peer review time

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Field Values
• Relevant value for data element

Additional Information
• Collected as HHMM
(Complication) CORRECTIVE ACTION

Data Format  [combo] single-choice

Definition
The action taken based on the complication

<table>
<thead>
<tr>
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<th>XSD Element/Domain (Simple Type)</th>
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</table>

Field Values

1  Counseling
2  Education
3  Guideline / Protocol
4  Not Indicated
5  Other
6  Peer Review Presentation
7  Privilege/Credentiating
8  Process Improvement Team
9  Resource Enhancement
10  Trend
11  Unnecessary
(Complication) OTHER CORRECTIVE ACTION

Data Format  [text]

Definition
Any other action taken based on the complication

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Field Values
- Relevant value for data element

Additional Information
- Only completed if Correction Action is "Other"
Definition

Indication as to what was determined to cause the complication

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</tbody>
</table>

Field Values

1. Cannot be Determined
2. Disease-Related
3. Procedure-Related
4. Provider-Related
5. System-Related
**FURTHER EXPLANATION / ACTION (of Complication)**

**Data Format**  [text]

---

**Definition**

Further explanation of the complication

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</table>

**Field Values**

- Relevant value for data element
PREVENTABILITY (of Complication)

Data Format     [combo] single-choice

Definition
Is the complication preventable?

<table>
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<td>Required in XSD</td>
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</tbody>
</table>

Field Values
1. Cannot Be Determined
2. Non-preventable
3. Potentially Preventable
4. Preventable
JUDGMENT (of Complication)

Definition
Outcome of peer review of a complication

<table>
<thead>
<tr>
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</tbody>
</table>

Field Values
1. Acceptable
2. Acceptable with Reservations
3. Defer Peer Review
4. Unacceptable
5. Will Never Undergo PR
**Data Format**

[combo] single-choice

**Definition**

Staff involved with the complication correspondence

<table>
<thead>
<tr>
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<tbody>
<tr>
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**Field Values**

- Relevant value for data element
(COMPLICATION CORRESPONDENCE) NOTE

Data Format: [text]

Definition
Complication correspondence note

<table>
<thead>
<tr>
<th>XSD Data Type</th>
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<th>XSD Element/Domain (Simple Type)</th>
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Field Values
- Relevant value for data element
**Definition**

Complication correspondence source

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<tr>
<td>Required in XSD</td>
<td>Yes</td>
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<td></td>
</tr>
</tbody>
</table>

### Field Values

1. Autopsy  
2. Conversation  
3. Daily Rounds  
4. EMS Run Sheet  
5. Hospital Quality Department  
6. Medical Record  
7. Patient/Family Concern/Comment  
8. PI Comm  
9. Referrals  
10. Risk Management Variance report  
11. Staff Concern
(Complication Correspondence) TYPE

Data Format [combo] single-choice

Definition
Complication correspondence type

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>XSD Element/Domain (Simple Type)</th>
<th>Correspondence_Type</th>
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<tbody>
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<td>No</td>
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</table>

Multiple Entry Configuration No
Accepts Null Value No
Required in XSD Yes

Field Values

1  Action Plan
2  Care Concern
3  Primary Review
4  Process Concern
5  Secondary Review
6  Tertiary Review
(Complication Correspondence) GROUP

**Data Format**  [combo] single-choice

---

**Definition**
Complication correspondence group

<table>
<thead>
<tr>
<th>XSD Data Type</th>
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<td>No</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
</tr>
</tbody>
</table>

**Field Values**

1. Neuro
2. Ortho
3. Other
4. Peds
5. Trauma
(Performance Improvement) STATUS

Data Format  [radio]

Definition
The status of the QA peer review judgement

<table>
<thead>
<tr>
<th>XSD Data Type</th>
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<th>XSD Element/Domain (Simple Type)</th>
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<tr>
<td>Required in XSD</td>
<td>Yes</td>
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</table>

Field Values
1  Open
2  Close
**Data Format**

[date]

**Definition**

The date that the performance improvement audit occurred

<table>
<thead>
<tr>
<th>XSD Data Type</th>
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<th>XSD Element/Domain (Simple Type)</th>
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<td>Required in XSD</td>
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<td></td>
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</tbody>
</table>

**Field Values**

- Relevant value for data element

**Additional Information**

- Collected as MM/DD/YYYY
(PI) OCCURRENCE TIME

Data Format  [time]

Definition
The time that the performance improvement audit occurred

<table>
<thead>
<tr>
<th>XSD Data Type</th>
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<th>XSD Element/Domain (Simple Type)</th>
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<tbody>
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Field Values
- Relevant value for data element

Additional Information
- Collected as HHMM
AUDIT STAFF INVOLVED
Data Format [combo] multiple-choice

Definition
Staff involved with the complication

<table>
<thead>
<tr>
<th>Field</th>
<th>Value</th>
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<tbody>
<tr>
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Field Values
- Relevant value for data element

Additional Information
- Press and hold "CTRL" key to select multiple values
(PI) PR DATE

Data Format  [date]

Definition
The QA indicator peer review date

<table>
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<tr>
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<th>XSD Element/Domain (Simple Type)</th>
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</table>

Field Values
• Relevant value for data element

Additional Information
• Collected as MM/DD/YYYY
(PI) PR TIME

Data Format  [time]

Definition
The QA indicator peer review time

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: string</th>
<th>XSD Element/Domain (Simple Type)</th>
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Field Values
• Relevant value for data element

Additional Information
• Collected as HHMM
FURTHER EXPLANATION / ACTION (of PI)

Data Format  [text]

Definition
Further explanation of the PI

<table>
<thead>
<tr>
<th>XSD Data Type</th>
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<th>XSD Element/Domain (Simple Type)</th>
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Field Values
- Relevant value for data element
(PI CORRESPONDENCE) STAFF

Data Format: [combo] single-choice

Definition:
Staff involved with the performance improvement audit correspondence

<table>
<thead>
<tr>
<th>XSD Data Type</th>
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<td>Required in XSD</td>
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</table>

Field Values
- Relevant value for data element
(PI CORRESPONDENCE) NOTE

Data Format [text]

Definition
Performance Improvement audit correspondence note

<table>
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<tr>
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<th>XSD Element/Domain (Simple Type)</th>
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Field Values
- Relevant value for data element
(PI Correspondence) SOURCE

Data Format  [combo] single-choice

Definition
Performance Improvement audit correspondence source

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<td>Value</td>
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</table>

Field Values
1  Autopsy
2  Conversation
3  Daily Rounds
4  EMS Run Sheet
5  Hospital Quality Department
6  Medical Record
7  Patient/Family Concern/Comment
8  PI Comm
9  Referrals
10  Risk Management Variance report
11  Staff Concern
(PI Correspondence) TYPE

Data Format  [combo] single-choice

Definition
Performance Improvement audit correspondence type

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<thead>
<tr>
<th>XSD Data Type</th>
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<td>Required in XSD</td>
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</tbody>
</table>

Field Values
1  Action Plan
2  Care Concern
3  Primary Review
4  Process Concern
5  Secondary Review
6  Tertiary Review
**Definition**
Performance Improvement audit correspondence group

<table>
<thead>
<tr>
<th>XSD Data Type</th>
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<th>XSD Element/Domain (Simple Type)</th>
<th>Correspondence_Group</th>
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<td>Required in XSD</td>
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</table>

**Field Values**
- 1  Neuro
- 2  Ortho
- 3  Other
- 4  Peds
- 5  Trauma
Outcome Information
HOSPITAL DISCHARGE SERVICE

Data Format  [combo] single-choice

Definition
The department that discharged the patient from the hospital

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: integer</th>
<th>XSD Element/Domain (Simple Type)</th>
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</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
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<td>Accepts Null Value</td>
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</tbody>
</table>

Required in XSD  Yes

Field Values
1  Acute Rehabilitation Medicine  26  Neurology
2  Anesthesia  27  Neurosurgery
3  Bariatric  28  Obstetric
4  Burn  29  Occuloplastic
5  Cardiology  30  Ophthalmology
6  Cardiothoracic Surgery  31  Oral Maxillo Facial Surgery
7  Chemical Dependency  32  Orthopedic Surgery
8  Critical Care Medicine  33  Pain
9  Critical Care Surgery  34  Pediatric Cardiology
10  Dentistry  35  Pediatric Critical Care Medicine
11  Dermatology  36  Pediatric Dentistry
12  Endocrinology  37  Pediatric Gastroenterology
13  Ear Nose Throat  38  Pediatric Hematology Oncology
14  Family Medicine  39  Pediatric Infection Disease
15  Gastroenterology  40  Pediatric Neurology
16  General Surgery  41  Pediatric Orthopedic
17  Geriatric  42  Pediatric Pulmonary
18  Hand  43  Plastic Surgeon
19  Hematology Oncology  44  Psychiatry
20  Infectious Disease  45  Psychology
21  Internal Medicine  46  Pulmonary
22  Kidney Transplant  47  Rheumatology
23  Liver  48  Trauma Surgeon
24  Neonatal  49  Urology
25  Nephrology  50  Vascular Surgery

Data Source
- Hospital Records
- Billing Sheet / Medical Records Coding Summary Sheet
- Physician Discharge Summary
HOSPITAL ADMISSION DATE

Data Format  [date]

Definition  
Date patient was discharged from the ED (or arrived at the facility if the patient was a direct admit)

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: string</th>
<th>XSD Element/Domain (Simple Type)</th>
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<td>Required in XSD</td>
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</tbody>
</table>

Field Values  
- Relevant value for data element

Additional Information  
- Collected as MM/DD/YYYY
- Used to auto-generate an additional calculated field: Total Length of Hospital Stay (time from hospital admission to hospital discharge)

Data Source  
- Hospital Records
- Billing Sheet / Medical Records Coding Summary Sheet
- Physician Discharge Summary
HOSPITAL ADMISSION TIME

Data Format  [time]

Definition
Time patient was discharged from the ED (or arrived at the facility if the patient was a direct admit)

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: string</th>
<th>XSD Element/Domain (Simple Type)</th>
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<td></td>
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</tbody>
</table>

Field Values
• Relevant value for data element

Additional Information
• Collected as HHMM
• HHMM should be collected as military time
• Used to auto-generate an additional calculated field: Total Length of Hospital Stay (time from hospital admission to hospital discharge)

Data Source
• Hospital Records
• Billing Sheet / Medical Records Coding Summary Sheet
• Physician Discharge Summary
HOSPITAL DISCHARGE ORDERS WRITTEN DATE

Data Format  [date]

Definition

The date the order was written for the patient to be discharged from the hospital.

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: string</th>
<th>XSD Element/Domain (Simple Type)</th>
<th>DischargeOrdersWrittenDateTime</th>
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<tbody>
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</table>

Field Values

- Relevant value for data element

Additional Information

- Collected as HHMM
- HHMM should be collected as military time
- Used to auto-generate an additional calculated field: Total Length of Hospital Stay (time from hospital admission to hospital discharge)

Data Source

- Hospital Records
- Billing Sheet / Medical Records Coding Summary Sheet
- Physician Discharge Summary
HOSPITAL DISCHARGE ORDERS WRITTEN TIME

Definition

The time the order was written for the patient to be discharged from the hospital.

<table>
<thead>
<tr>
<th>XSD Data Type</th>
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<th>XSD Element/Domain (Simple Type)</th>
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Field Values

- Relevant value for data element

Additional Information

- Collected as HHMM
- HHMM should be collected as military time
- Used to auto-generate an additional calculated field: Total Length of Hospital Stay (time from hospital admission to hospital discharge)

Data Source

- Hospital Records
- Billing Sheet / Medical Records Coding Summary Sheet
- Physician Discharge Summary
HOSPITAL DISCHARGE DATE*

Definition
The date the patient was discharged from the hospital.

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: date</th>
<th>XSD Element / Domain (Simple Type)</th>
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</thead>
<tbody>
<tr>
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</table>

Accepts Null Value: Yes, common null values
Min. Constraint: 1990
Max. Constraint: 2030

Field Values
- Relevant value for data element

Additional Information
- Collected as MM/DD/YYYY
- Used to auto-generate an additional calculated field: Total Length of Hospital Stay (time from hospital admission to hospital discharge)
- Leave value blank if the null value should be "Not Applicable" if ED Discharge Disposition is "Died"
- Leave value blank if the null value should be "Not Applicable" if ED Discharge Disposition is "Home with Services", "Other (jail, institutional care, mental health, etc.)", "Home without Services", "Left against medical advice", or "Transferred to another hospital"

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.

Data Source
- Hospital Records
- Billing Sheet / Medical Records Coding Summary Sheet
- Physician Discharge Summary
- Nursing Notes / Flow Sheet
- Case Management / Social Services Notes

National Element
- National Element O_03 from the 2016 National Trauma Data Standard
HOSPITAL DISCHARGE TIME*

Data Format  [time]

Definition
The time the patient was discharged from the hospital.

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>XSD Element / Domain (Simple Type)</th>
<th>Accepts Null Value</th>
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</thead>
<tbody>
<tr>
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Multiple Entry Configuration: No
Required in XSD: Yes
Min. Constraint: 00:00
Max. Constraint: 23:59

Field Values
- Relevant value for data element

Additional Information
- Collected as HHMM
- HHMM should be collected as military time
- Used to auto-generate an additional calculated field: Total Length of Hospital Stay (time from hospital admission to hospital discharge)
- Leave value blank if the null value should be "Not Applicable" if ED Discharge Disposition is "Died"
- Leave value blank if the null value should be "Not Applicable" if ED Discharge Disposition is "Home with Services", "Other (jail, institutional care, mental health, etc.)", "Home without Services", "Left against medical advice", or "Transferred to another hospital"

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.

Data Source
- Hospital Records
- Billing Sheet / Medical Records Coding Summary Sheet
- Physician Discharge Summary
- Nursing Notes / Flow Sheet
- Case Management / Social Services Notes

National Element
- National Element O_04 from the 2016 National Trauma Data Standard
TOTAL ICU DAYS*

**Data Format**  [number]

**Definition**
The cumulative amount of time spent in the ICU. Each partial or full day should be measured as one calendar day

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: integer</th>
<th>XSD Element / Domain (Simple Type)</th>
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<td>Max. Constraint: 400</td>
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</table>

**Field Values**
- Relevant value for data element

**Additional Information**
- Recorded in full day increments with any partial day listed 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
- Leave value blank if the null value should be "Not Applicable" if the patient had no ICU days according to the above definition.

**Data Source**
- ICU Nursing Flow Sheet
- Calculate Based on Admission Form and Discharge Sheet
- Nursing Progress Notes

**National Element**
- National Element O_01 from the 2016 National Trauma Data Standard
TOTAL VENTILATOR DAYS*

Definition
The cumulative amount of time spent on the ventilator. Each partial or full day should be measured as one calendar day.

Data Format [number]

<table>
<thead>
<tr>
<th>XSD Data Type</th>
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<th>XSD Element / Domain (Simple Type)</th>
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<td>Min. Constraint: 1</td>
<td>Max. Constraint: 400</td>
</tr>
</tbody>
</table>

Field Values
- Relevant value for data element

Additional Information
- Excludes mechanical ventilation time associated with OR procedures
- Non-invasive means of ventilator support (CPAP or BIPAP) should not be considered in the calculation of ventilator hours
- Recorded in full day increments with any partial day listed as a full 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
- Leave value blank if the null value should be "Not Applicable" if the patient was not on the ventilator according to the above definition.

Data Source
- ICU Respiratory Therapy Flow Sheet
- ICU Nursing Flow Sheet
- Physician's Daily Progress Notes
- Calculate Based on Admission Form and Discharge Sheet
- Nursing Progress Notes

National Element
- National Element O_02 from the 2016 National Trauma Data Standard
DISABILITY AT DISCHARGE - FEEDING

Data Format [combo] single-choice

Definition
A score calculated to derive a baseline of trauma patient feeding disability at discharge from an acute care facility

<table>
<thead>
<tr>
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<td>Required in XSD</td>
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</table>

Field Values
1  Dependent - Total Help
2  Dependent - Partial Help
3  Independent with Device
4  Independent

Additional Information
• Used to auto-generate an additional calculated field: FIM Score (combination of Feeding, Locomotion, and Motor scores)
• Assess as close to discharge as possible. Includes using suitable utensils to bring food to mouth, chewing, and swallowing (once meal is appropriately prepared). Opening containers, cutting meat, buttering bread and pouring liquids are not included as they are often part of meal preparation.
• Dependent-total help required: Either performs less than half of feeding tasks, or does not eat or drink full meals by mouth and relies at least in part on other means of alimentation, such as parenteral or gastrostomy feedings.
• Dependent-partial help required: Performs half or more of feeding tasks but requires supervision (e.g., standby, cueing, or coaxing) setup (application of Orthopedics), or other help.
• Independent with device: Uses an adaptive or assisting device such as a straw, spork, or rocking knifes, or requires more than a reasonable time to eat.
• Independent: Eats from a dish and drinks from a cup or glass presented in the customary manner on table or tray. Uses ordinary knife, fork, and spoon.
• Not applicable: (e.g., patient less than 7 years old, patient died, etc.)

Data Source
• Billing Sheet / Medical Records Coding Summary Sheet
• Hospital Admission Form
DISABILITY AT DISCHARGE - LOCOMOTION

Data Format [combo] single-choice

Definition
A score calculated to derive a baseline of trauma patient locomotion (independence) disability at discharge from an acute care facility.

<table>
<thead>
<tr>
<th>XSD Data Type</th>
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<th>XSD Element / Domain (Simple Type)</th>
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<tr>
<td>Required in XSD</td>
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<td></td>
<td></td>
</tr>
</tbody>
</table>

Field Values
1  Dependent - Total Help  2  Dependent - Partial Help
3  Independent with Device 4  Independent

Additional Information
- Used to auto-generate an additional calculated field: FIM Score (combination of Feeding, Locomotion, and Motor scores).
- Includes walking once in a standing position, or using a wheelchair, once in a seated position, indoors.
- Dependent - total help required: Performs less than half of locomotion effort to go a minimum of 50 feet, or does not walk or wheel a minimum of 50 feet. Requires assistance of one or more persons.
- Dependent - partial help required: If walking, requires standby supervision, cueing, or coaxing to go a minimum of 150 feet, or walks independently only short distances (a minimum of 50 feet). If not walking, requires standby supervision, cueing, or coaxing to go a minimum of 150 feet in wheelchair, or operates manual or electric wheelchair independently only short distances (a minimum of 50 feet).
- Independent with Device: Walks a minimum of 150 feet but uses a brace or prosthesis on leg, special adaptive shoes, cane, crutches, or walker; takes more than a reasonable time; or there are safety considerations. If not walking, operates manual or electric wheelchair independently for a minimum of 150 feet; turns around; maneuvers the chair to a table, bed, toilet; negotiates at least a 3% grade; maneuvers on rugs and over doorills.
- Independent: Walks a minimum of 150 feet without assisting devices. Does not use a wheelchair. Performs safely.
- Not applicable: (e.g., patient less than 7 years old, patient died, etc.)

Data Source
- Billing Sheet / Medical Records Coding Summary Sheet
- Hospital Admission Form
DISABILITY AT DISCHARGE - EXPRESSION (MOTOR)

Data Format  [combo] single-choice

Definition
A score calculated to derive a baseline of trauma patient motor (expression) disability at discharge from an acute care facility

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: integer</th>
<th>XSD Element / Domain (Simple Type)</th>
<th>Expression</th>
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<tbody>
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<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
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<td></td>
</tr>
</tbody>
</table>

Field Values
- 1 Dependent - Total Help
- 2 Dependent - Partial Help
- 3 Independent with Device
- 4 Independent

Additional Information
- Used to auto-generate an additional calculated field: FIM Score (combination of Feeding, Locomotion, and Motor scores)
- Includes clear expression of verbal or nonverbal language. This means expressing linguistic information verbally or graphically with appropriate and accurate meaning and grammar
- Dependent - total help required: Expresses basic needs and ideas less than half of the time. Needs prompting more than half the time or does not express basic needs appropriately or consistently despite prompting
- Dependent - partial help required: Expresses basic needs and ideas about everyday situations half (50%) or more than half of the time. Requires some prompting, but requires that prompting less than half (50%) of the time
- Independent with Device: Expresses complex or abstract ideas with mild difficulty. May require an augmentative communication device or system
- Independent: Expresses complex or abstract ideas intelligibly and fluently, verbal or nonverbal, including signing or writing
- Not applicable: (e.g., patient less than 7 years old, patient died, etc.)

Data Source
- Billing Sheet / Medical Records Coding Summary Sheet
- Hospital Admission Form
HOSPITAL DISCHARGE DISPOSITION*

Data Format [combo] single-choice

Definition
The disposition of the patient when discharged from the hospital

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>XSD Element / Domain (Simple Type)</th>
</tr>
</thead>
<tbody>
<tr>
<td>xs: integer</td>
<td>HospitalDischargeDisposition</td>
</tr>
</tbody>
</table>

Multiple Entry Configuration No

Required in XSD Yes

Accepts Null Value Yes, common null values

Field Values
1. Discharged/Transferred to a short-term general hospital for inpatient care
2. Discharged/Transferred to an Intermediate Care Facility (ICF)
3. Discharged/Transferred to home under care of organized home health service
4. Left against medical advice (AMA) or discontinued care
5. Expired
6. Discharged home with no home services
7. Discharged/Transferred to Skilled Nursing Facility (SNF)
8. Discharged/Transferred to hospice care
9. DISCHARGED/TRANSFERRED TO ANOTHER TYPE OF REHABILITATION OR LONG-TERM CARE FACILITY
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

Additional Information
• "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 "Discharged home with no home services"
• Disposition to any other medical facility should be coded as "Discharged / Transferred to another type of institution not defined elsewhere"
• Refer to Appendix 6: Indiana Glossary of Terms for definitions of facility types
• The null value "Not Applicable" is used if ED Discharge Disposition value is "Died"
The null value "Not Applicable" is used if ED Discharge Disposition value is "Home with Services", "Other (jail, institutional care, mental health, etc.)", "Home without services", "Left against medical advice", or "Transferred to another hospital"

**Data Source**
- Hospital Records
- Physician Discharge Summary
- Nurses' Notes
- Billing Sheet / Medical Records
- Coding Summary Sheet
- Case Manager / Social Services' Notes

**National Element**
- National Element O_05 from the 2016 National Trauma Data Standard
HOSPITAL TRANSFERRED TO

Data Format  [combo] single-choice

Definition
Name of the receiving facility the patient was transferred to

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: string</th>
<th>XSD Element/Domain (Simple Type)</th>
<th>TransferTo_ID</th>
</tr>
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<tbody>
<tr>
<td>Multiple Entry Configuration</td>
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<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Field Values
- Relevant value for data element

Additional Information
- Only completed if Hospital Disposition "Acute Care Hospital", "Burn Care Facility", or "Rehab or long-term facility" is selected

Data Source
- Hospital Records
- Billing Sheet / Medical Records Coding Summary Sheet
- Physician Discharge Summary
(Other) FACILITY (Transferred to)

Definition
Any other identifying facility not found on the available list of options to which the patient was discharged

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: string</th>
<th>XSD Element/Domain (Simple Type)</th>
<th>transferto_otherfacilityname</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Field Values
- Relevant value for data element

Additional Information
- Only completed if Hospital Transferred to "Other" is selected

Data Source
- Hospital Records
- Billing Sheet / Medical Records Coding Summary Sheet
- Physician Discharge Summary
(Other) CITY (Transferred to)

Data Format: [text]

**Definition**
The city in which the transfer facility is located

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: string</th>
<th>XSD Element/Domain (Simple Type)</th>
<th>transferto_otherfacilitycity</th>
</tr>
</thead>
<tbody>
<tr>
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<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Field Values**
- Relevant value for data element

**Additional Information**
- Only completed if Hospital Transferred to "Other" is selected

**Data Source**
- Hospital Records
- Billing Sheet / Medical Records Coding Summary Sheet
- Physician Discharge Summary
(Other) STATE (Transferred to)

Data Format  [text]

Definition
The state in which the transfer facility is located

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: string</th>
<th>XSD Element/Domain (Simple Type)</th>
<th>transferto_otherfacilitystate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
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<td>Accepts Null Value</td>
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<tr>
<td>Required in XSD</td>
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<td></td>
<td></td>
</tr>
</tbody>
</table>

Field Values
- Relevant value for data element

Additional Information
- Only completed if Hospital Transferred to "Other" is selected

Data Source
- Hospital Records
- Billing Sheet / Medical Records Coding Summary Sheet
- Physician Discharge Summary
**Definition**
Discharge transport mode

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: integer</th>
<th>XSD Element/Domain (Simple Type)</th>
<th>DischargeTransportMode</th>
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</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Field Values**
1. Ambulance
2. Helicopter
3. Fixed Wing
4. Police
5. Private Vehicle

**Additional Information**
- Only completed if Hospital Disposition "Acute Care Hospital" is selected

**Data Source**
- Hospital Records
- Billing Sheet / Medical Records Coding Summary Sheet
- Physician Discharge Summary
(Hospital Outcome) DESTINATION DETERMINATION

Data Format  [combo] single-choice

Definition
The reason the facility transferred this patient to another acute care hospital

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: string</th>
<th>XSD Element/Domain (Simple Type)</th>
<th>DestinationDetermination</th>
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</thead>
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<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Field Values
• Hospital of Choice
• Specialty Resource Center

Additional Information
• Only completed if Hospital Disposition "Acute Care Hospital" is selected

Data Source
• Hospital Records
• Billing Sheet / Medical Records Coding Summary Sheet
• Physician Discharge Summary
**WORK-RELATED***

**Data Format**  [combo] single-choice

**Definition**  
Indication of whether the injury occurred during paid employment

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: integer</th>
<th>XSD Element / Domain (Simple Type)</th>
<th>WorkRelated</th>
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</thead>
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<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Field Values**

1  Yes  
2  No

**Additional Information**

- If work related, two additional data fields must be completed: Patient’s Occupational Industry and Patient’s Occupation

**Data Source**

- EMS Run Sheet
- Triage Form / Trauma Flow Sheet
- ED Nurses' Notes
- Other ED Documentation
- Face Sheet
- History & Physical

**National Element**

- National Element I_03 from the 2016 National Trauma Data Standard
PATIENT’S OCCUPATION*

Data Format  [combo] single-choice

Definition
The occupation of the patient

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: integer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
</tr>
<tr>
<td>XSD Element / Domain (Simple Type)</td>
<td>PatientsOccupation</td>
</tr>
<tr>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
</tbody>
</table>

Field Values
1. Business and Financial Operations Ocp
2. Architecture and Engineering Ocp
3. Community and Social Services Ocp
4. Education, Training, and Library Ocp
5. Healthcare Practitioners and Technical Ocp
6. Protective Service Ocp
7. Building and Grounds Cleaning and Maintenance
8. Sales and Related Ocp
9. Farming, Fishing, and Forestry Ocp
10. Installation, Maintenance, and Repair Ocp
11. Transportation and Material Moving Ocp
12. Management Ocp
13. Computer and Mathematical Ocp
14. Life, Physical, and Social Science Ocp
15. Legal Ocp
16. Arts, Design, Entertainment, Sports, and Media
17. Healthcare Support Ocp
18. Food Prep & Serving Related
19. Personal Care & Service Ocp
20. Construction and Extraction Ocp
21. Production Ocp
22. Military Specific Ocp

Additional Information
- 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)
- The null value "Not Applicable" is used if Work Related is 2. No.

Data Source
- Triage Form / Trauma Flow Sheet
- EMS Run Sheet
- ED Nurses’ Notes
- Other ED documentation
- Face Sheet

National Element
- National Element I_05 from the 2016 National Trauma Data Standard
PATIENT'S OCCUPATIONAL INDUSTRY*

Data Format  [combo] single-choice

Definition
The occupational industry associated with the patient's work environment

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: integer</th>
<th>XSD Element / Domain (Simple Type)</th>
<th>PatientsOccupationalIndustry</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
<td>PatientsOccupationalIndustry</td>
<td></td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
</tbody>
</table>

Field Values
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

Additional Information
- If work related, also complete Patient's Occupation
- Based upon US Bureau of Labor Statistics Industry Classification

Data Source
- Triage Form / Trauma Flow Sheet
- EMS Run Sheet
- ED Nurses' Notes
- Other ED Documentation
- Face Sheet

National Element
- National Element I_04 from the 2016 National Trauma Data Standard
PATIENT’S OCCUPATIONAL INDUSTRY DESCRIPTION

Data Format  [text]

Definition
A description of the occupational industry associated with the patient’s work environment

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>XSD Element / Domain (Simple Type)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>No</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Multiple Entry Configuration</th>
<th>No</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Required in XSD</th>
<th>Accepts Null Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

Field Values
• Relevant value for data element

Additional Information
• Only completed if injury is work-related

Data Source
• Triage Form / Trauma Flow Sheet
• EMS Run Sheet
• ED Nurses’ Notes
• Other ED Documentation
PATIENT'S OCCUPATION DESCRIPTION

Data Format [text]

Definition
The description of the occupation of the patient

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>XSD Element / Domain (Simple Type)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>No</td>
</tr>
</tbody>
</table>

Field Values
- Relevant value for data element

Additional Information
- Only completed if injury is work-related

Data Source
- Triage Form / Trauma Flow Sheet
- EMS Run Sheet
- ED Nurses' Notes
- Other ED documentation
DISABILITY AT DISCHARGE - FIM SCORE

Data Format  
[number]

Definition

A score calculated (by adding together the Feeding, Independence, and Motor scores) to derive a baseline of trauma patient disability at discharge from an acute care facility, using three components: Feeding, Locomotion (Independence), and Motor (Expression)

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: string</th>
<th>XSD Element/Domain (Simple Type)</th>
<th>FIM_score</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Field Values

- Relevant value for data element
- Auto-calculated by combining Feeding, Locomotion, and Motor scores when entered

Data Source

- Billing Sheet / Medical Records Coding Summary Sheet
- Hospital Admission Form
LOCATION OF DEATH

Data Format  [combo] single-choice

Definition
The location where the patient expired

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: integer</th>
<th>XSD Element/Domain (Simple Type)</th>
<th>locationofdeath</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Field Values
1  ICU
2  Floor
3  ER
4  OR
5  Prior to Arrival

Additional Information
• Only completed if Hospital Disposition is "Expired"

Data Source
• Hospital Records
• Billing Sheet / Medical Records Coding Summary Sheet
• Physician Discharge Summary
DATE & TIME OF DEATH

Data Format  [Date] [Time]

Definition
Date and time the patient expired

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: integer</th>
<th>XSD Element/Domain (Simple Type)</th>
<th>DateTimeofDeath</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
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<td>Accepts Null Value</td>
<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Field Values
• Relevant value for data element

Additional Information
• Only completed if Hospital Disposition is "Expired"

Data Source
• Hospital Records
• Billing Sheet / Medical Records Coding Summary Sheet
• Physician Discharge Summary
DEATH CIRCUMSTANCE

Data Format  [combo] single-choice

Definition
Indicates patient's primary cause of death

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: integer</th>
<th>XSD Element/Domain (Simple Type)</th>
<th>DeathCircumstance</th>
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<tbody>
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</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Field Values

1. Brain Injury
2. Burn Shock
3. Cardio Failure
4. Drowning
5. Electrocution
6. Heart Laceration
7. Liver Laceration
8. Multiple Organ Failure/Metabolic
9. Failure/Metabolic
10. Other
11. Pre-Existing Illness
12. Pulmonary Failure
13. Pulmonary Failure/Sepsis
14. Thoracic Aortic Transection
15. Trauma Shock
16. Treatment Withheld
17. Brain Death
18. Sepsis
19. Cardiac Arrest due to
20. Strangulation
21. Cardiac Arrest
22. Family D/C Life Support
23. Medical
24. Multisystem Trauma
25. Trauma Wound

Additional Information
- Only completed if Hospital Disposition is "Expired"

Data Source
- Hospital Records
- Billing Sheet / Medical Records Coding Summary Sheet
- Physician Discharge Summary
- Autopsy Report
OTHER (Death Circumstance) DESCRIPTION

Data Format  [text]

**Definition**

The circumstance under which the patient died

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: string</th>
<th>XSD Element/Domain (Simple Type)</th>
<th>DeathCircumstance_OtherDesc</th>
</tr>
</thead>
<tbody>
<tr>
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<td>Yes, common null values</td>
</tr>
<tr>
<td>Required in XSD</td>
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</tr>
</tbody>
</table>

**Field Values**

- Relevant value for data element

**Additional Information**

- Only completed if Death Circumstance is "Other"

**Data Source**

- Hospital Records
- Billing Sheet / Medical Records Coding Summary Sheet
- Physician Discharge Summary
- Autopsy Report
ORGAN DONATION

**Data Format**  [combo] single-choice

**Definition**
To make a gift of a differentiated structure (as a heart, kidney, leaf, or stem) consisting of cells and tissues and performing some specific function in an organism

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: integer</th>
<th>XSD Element / Domain (Simple Type)</th>
<th>OrganDonation</th>
</tr>
</thead>
<tbody>
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</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Field Values**
1  Yes
2  No
3  Tissue Donation

**Additional Information**
- Only completed if Hospital Disposition is "Expired"

**Data Source**
- Hospital Documentation
AUTOPSY PERFORMED

Data Format [combo] single-choice

Definition
An examination of a body after death to determine the cause of death or the character and extent of changes produced by disease

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: integer</th>
<th>XSD Element / Domain (Simple Type)</th>
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</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Field Values
1  Yes
2  No

Additional Information
- Only completed if Hospital Disposition is "Expired"

Data Source
- Hospital Documentation
ADVANCED DIRECTIVE

Data Format  [combo] single-choice

Definition
Determination whether the patient had an Advanced Directive

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs: integer</th>
<th>XSD Element/Domain (Simple Type)</th>
<th>AdvancedDirective</th>
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</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Field Values
1  Yes
2  No

Additional Information
• Only completed if Hospital Disposition is "Expired"

Data Source
• Hospital Records
• Billing Sheet / Medical Records Coding Summary Sheet
• Physician Discharge Summary
Regarding Injury Severity Score (ISS) and Abbreviated Injury Score (AIS)*

In ImageTrend, the ISS is calculated from the AIS codes by using the AIS region and severity that is associated with the AIS code. The AIS codes are entered along with a corresponding ICD-9 or ICD-10.

When an ICD-9 or ICD-10 code is added to a patient, the ImageTrend Patient Registry can show the registrar the AIS code used frequently with the diagnosis. If the registrar agrees with the stated code, they can click the add button. When the Diagnosis and AIS are added, the system will automatically update the ISS and Probability of Survival. (Below)

The ImageTrend Patient Registry use the AIS 05 with updates from 2008. Also, in addition to calculating the ISS, the New Injury Severity Score (NISS) will also be calculated.
Appendix 1: Auto Calculated Variables Based Upon Existing Data Elements
Variables Auto-Calculated Based on Existing Data Elements

1. *Trauma Registry Number (Data Element: TR5.12)*

   **Definition:** Number assigned by the registry software program or registrar that provides a unique identifier for a patient within a specific institution

   **Calculation:** Auto-Calculated

2. *Injury Intentionality (Data Element: TR20.11)*

   **Definition:** An indication of whether an injury was caused by an act carried out on purpose by oneself or by another person(s), with the goal of injuring or killing.

   **Calculation:** A matrix table grouping External Cause of Injury Codes (E-Codes) into two classifications: *mechanism* of injury or cause of death (e.g., falls, etc.) by *intent* of injury or manner of death (i.e., unintentional or “accidental”, etc. [See Tables 1 and 2, pages 302-303). An electronic version of the CDC matrix may be viewed at: http://www.cdc.gov/injury/wisqars/ecode_matrix.html

3. *Trauma Type (Data Element: TR5.13)*

   **Definition:** An indication of the type (or nature) of trauma produced by an injury.

   **Calculation:** Injury diagnoses are categorized according to the Barell Matrix (See Tables 3 to 7, pages 304-308), a two-dimensional array of ICD-9-CM codes grouped by body region and nature of injury. An electronic version of the Barell Matrix may be viewed at: http://www.cdc.gov/nchs/data/ice/final_matrix_post_ice.pdf

4. *Inter-Facility Transfer (Data Element: TR25.54)*

   **Definition:** Was the patient transferred to your facility from another acute care facility?

   **Calculation:** TR16.22 – Arrived From is “Referring Hospital” and TR8.8 – Transported to Your Facility By is “EMS/Ground”, “Helicopter/Air”, or “Fixed Wing”

5. *Total EMS Response Time*

   **Definition:** The total elapsed time from dispatch of the EMS transporting unit to scene arrival of the EMS transporting unit (i.e., the time the vehicle stopped moving).

   **Calculation:** EMS Unit Arrival on Scene DateTime – EMS Dispatch DateTime
6. **Total EMS Scene Time**

*Definition:* The total elapsed time from EMS transporting unit scene arrival to EMS transporting unit scene departure (i.e., the time the vehicle started moving).

7. **Total EMS Time**

*Definition:* The total elapsed time from dispatch of the EMS transporting unit to hospital arrival of the EMS transporting unit.

*Calculation:* ED/Hospital Arrival DateTime – EMS Dispatch DateTime

8. **Overall GCS – EMS score (adult and pediatric)**

*Definition:* A scale calculated in the pre-hospital setting which evaluates the patient’s initial level of awareness, which indirectly indicates the extent of neurologic injury. The scale rates three categories of patient responses: eye opening, best verbal response, and best motor response. The lowest score is 3 and is indicative of no response; the highest score is 15 and indicates the patient is alert and aware of his or her surroundings.

*Calculation:* Initial Field GCS Eye + Initial Field GCS Verbal + Initial Field GCS Motor

9. **Revised Trauma Score – EMS (adult and pediatric)**

*Definition:* The Revised Trauma Score is a physiological scoring system used to predict death from injury or need for trauma center care. It is scored based upon the initial vital signs obtained from the patient in the pre-hospital setting.

*Calculation:* $RTS = 0.9368 \times (\text{Initial Field GCS Total}) + 0.7326 \times (\text{Initial Field Systolic Blood Pressure}) + 0.2908 \times (\text{Initial Field Respiratory Rate})$

10. **Overall GCS – Referring Hospital score (adult and pediatric)**

*Definition:* A scale calculated at the referring hospital which evaluates the patient’s initial level of awareness, which indirectly indicates the extent of neurologic injury. The scale rates three categories of patient responses: eye opening, best verbal response, and best motor response. The lowest score is 3 and is indicative of no response; the highest score is 15 and indicates the patient is alert and aware of his or her surroundings.

*Calculation:* Referring Hospital GCS Eye + Referring Hospital GCS Verbal
+ Referring Hospital GCS Motor

11. Revised Trauma Score – Referring Hospital (adult and pediatric)

**Definition:** The Revised Trauma Score is a physiological scoring system used to predict death from injury or need for trauma center care. It is scored based upon the initial vital signs obtained from the patient at the referring hospital.

**Calculation:** 
\[ \text{RTS} = 0.9368 \times (\text{Referring Hospital GCS Total}) + 0.7326 \times (\text{Referring Hospital Systolic Blood Pressure}) + 0.2908 \times (\text{Referring Hospital Respiratory Rate}) \]

12. Total ED Time

**Definition:** The total elapsed time the patient was in the emergency department (ED)

**Calculation:** ED Discharge DateTime – ED Arrival DateTime

13. Overall GCS – ED score (adult and pediatric)

**Definition:** A scale calculated in the ED or hospital setting which evaluates the patient’s initial level of awareness, which indirectly indicates the extent of neurologic injury. The scale rates three categories of patient responses: eye opening, best verbal response, and best motor response. The lowest score is 3 and is indicative of no response; the highest score is 15 and indicates the patient is alert and aware of his or her surroundings.

**Calculation:** Initial ED/Hospital GCS Eye + Initial ED/Hospital GCS Verbal + Initial ED/Hospital GCS Motor

14. Revised Trauma Score – ED (adult and pediatric)

**Definition:** The Revised Trauma Score is a physiological scoring system used to predict death from injury or need for trauma center care. It is scored based upon the initial vital signs obtained from the patient in the ED or hospital setting.

**Calculation:** 
\[ \text{RTS} = 0.9368 \times (\text{Initial ED/Hospital GCS Total}) + 0.7326 \times (\text{Initial ED/Hospital Systolic Blood Pressure}) + 0.2908 \times (\text{Initial ED/Hospital Respiratory Rate}) \]

15. Abbreviated Injury Scale (six body regions)

**Definition:** The Abbreviated Injury Scale (AIS) is an anatomical scoring system first introduced in 1969. Since this time it has been revised and updated against survival to provide a ranking of the severity of injury. AIS scores are available for six body regions: Head/Neck (*Data Element: TR21.2*), Face (*Data Element: TR21.5*), Chest (*Data
Definition: The Injury Severity Score (ISS) is an anatomical scoring system that provides an overall score for patients with multiple injuries.

Calculation: Each injury is assigned an AIS score and is allocated to one of six body regions. The 3 most severely injured body regions have their AIS score squared and added together to produce the ISS score. Only the highest AIS score in each body region is used. The ISS score takes values from 0 to 75. If an injury is assigned an AIS of 6 (Insurvivable injury), the ISS score is automatically assigned to 75. An electronic version of this information may be viewed at: http://www.trauma.org/archive/scores/iss.html

17. Probability of Survival (Data Element: TR21.9)

Definition: The Trauma Score – Injury Severity Score (TRISS) determines the probability of survival (Ps) of a patient from the ISS, RTS, and patient’s age.

Calculation: The following formula is used: $Ps = 1 / (1 + e^{b})$

\['b' \text{ is calculated from: } b = b_0 + b_1(\text{RTS}) + b_2(\text{ISS}) + b_3(\text{AgeIndex}).\]

b0 to b3 are coefficients derived from multiple regression analysis of the Major Trauma Outcomes Study (MTOS) database. The coefficients are different for blunt and penetrating trauma. If the patient is less that 15 years of age, the blunt coefficients are used regardless of the mechanism.

<table>
<thead>
<tr>
<th></th>
<th>Blunt</th>
<th>Penetrating</th>
</tr>
</thead>
<tbody>
<tr>
<td>b0</td>
<td>-0.4499</td>
<td>-2.5355</td>
</tr>
<tr>
<td>b1</td>
<td>0.8085</td>
<td>0.9934</td>
</tr>
</tbody>
</table>

Element: TR21.3, Abdominal (Data Element: TR21.6), Extremities (including pelvis) (Data Element: TR21.4), and External (Data Element TR21.7). The AIS is monitored by a scaling committee of the Association for the Advancement of Automotive Medicine.
AgeIndex is 0 if the patient is below 54 years of age or 1 if 55 years of age and over. An electronic version of this information may be viewed at: http://www.trauma.org/archive/scores/triss.html

18. New Injury Severity Score (Data Element: TR21.24)

**Definition:** As multiple injuries within the same body region are only assigned a single score, a proposed modification of ISS, the “New Injury Severity Score” (NISS), was proposed.

**Calculation:** This is similar to how ISS is calculated, but NISS is calculated as the sum of the squares of the top three scores regardless of body region.

19. Total Length of Hospital Stay (Data Element: TR25.44)

**Definition:** The total elapsed time the patient was in the hospital.

**Calculation:** Hospital Discharge Date-Time – ED/Hospital Arrival Date-Time
<table>
<thead>
<tr>
<th>Mechanism/Cause</th>
<th>Unintentional</th>
<th>Self-inflicted</th>
<th>Assault</th>
<th>Undetermined</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cut/pierce</td>
<td>E920.0-9</td>
<td>E956</td>
<td>E966</td>
<td>E986</td>
<td>E974, E995.2</td>
</tr>
<tr>
<td>Drowning / submersion</td>
<td>E830.0-9</td>
<td>E954</td>
<td>E964</td>
<td>E984</td>
<td>E995.4</td>
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<tr>
<td></td>
<td>E832.0-9</td>
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</tr>
<tr>
<td></td>
<td>E910.0-9</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fall</td>
<td>E880.0-E886.9</td>
<td>E957.0-9</td>
<td>E968.1</td>
<td>E987.0-9</td>
<td></td>
</tr>
<tr>
<td></td>
<td>E888</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fire/burn</td>
<td>E890.0-E899</td>
<td>E958(1,2,7)</td>
<td>E961</td>
<td>E988(1,2,7)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>E924.0-9</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fire/Flame</td>
<td>E890.0-E899</td>
<td>E958.1</td>
<td>E968.0</td>
<td>E988.1</td>
<td></td>
</tr>
<tr>
<td>Hot object / substance</td>
<td>E924.0-9</td>
<td>E958.2</td>
<td>E961</td>
<td>E988.2</td>
<td></td>
</tr>
<tr>
<td></td>
<td>E958.7</td>
<td></td>
<td></td>
<td>E988.7</td>
<td></td>
</tr>
<tr>
<td>Firearm</td>
<td>E922.0-3</td>
<td>E955.0-4</td>
<td>E965.0-4</td>
<td>E985.0-4</td>
<td>E970</td>
</tr>
<tr>
<td></td>
<td>E922(8,9)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Machinery</td>
<td>E919.0-9</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Motor Vehicle Traffic</td>
<td>E810-E819(0-9)</td>
<td>E958.5</td>
<td>E968.5</td>
<td>E988.5</td>
<td></td>
</tr>
<tr>
<td>Occupant</td>
<td>E810-E819(0)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>E810-E819(1)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Motorcyclist</td>
<td>E810-E819(2)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>E810-E819(3)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pedal Cyclist</td>
<td>E810-E819(6)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pedestrian</td>
<td>E810-E819(7)</td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Unspecified</td>
<td>E810-E819(9)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pedal Cyclist, Other</td>
<td>E800-E807(3)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>E820-E825(6)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>E826.1,9</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>E827-E829(1)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pedestrian, Other</td>
<td>E800-E807(2)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>E820-E825(7)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>E826-E829(0)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Manner/Intent</td>
<td>Unintentional</td>
<td>Self-inflicted</td>
<td>Assault</td>
<td>Undetermined</td>
<td>Other</td>
</tr>
<tr>
<td>---------------------</td>
<td>---------------</td>
<td>----------------</td>
<td>---------</td>
<td>--------------</td>
<td>-------</td>
</tr>
<tr>
<td>Transport, Other</td>
<td>E800-E807(0.0,1.8,9)</td>
<td>E820-E825(0.5,8,9)</td>
<td>E826.2-8, E827-E829(2.9)</td>
<td>E831.0-9, E833.0-E845.9</td>
<td></td>
</tr>
<tr>
<td>Natural/Environmental</td>
<td>E900.00-E909</td>
<td>E928.0-2</td>
<td>E958.3</td>
<td>E988.3</td>
<td></td>
</tr>
<tr>
<td>Bites/Stings</td>
<td>E905.0-6,9</td>
<td>E906.0-4,5,9</td>
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<td></td>
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<tr>
<td>Overexertion</td>
<td>E927.0-4,8,9</td>
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</tr>
</tbody>
</table>

**Table 2: Modification of the Injury Intentionality**

**CDC Matrix (Poisoning to All External Causes)**

<table>
<thead>
<tr>
<th>Mechanism/Cause</th>
<th>Unintentional</th>
<th>Self-inflicted</th>
<th>Assault</th>
<th>Undetermined</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>Poisoning</td>
<td>E850.0-E869.9</td>
<td>E950.0-E952.9</td>
<td>E962.0-9, E979.6</td>
<td>E980.0-E982.9</td>
<td>E972</td>
</tr>
<tr>
<td>Struck by, Against</td>
<td>E916-E917.9</td>
<td></td>
<td>E960.0, E968.2</td>
<td></td>
<td>E973, E975 (0.1)</td>
</tr>
<tr>
<td>Suffocation</td>
<td>E911-E913.9</td>
<td>E953.0-9</td>
<td>E963</td>
<td>E983.0-9</td>
<td>E995.3</td>
</tr>
<tr>
<td>Other Specified and Classifiable</td>
<td>E846-E848</td>
<td>E955.5, E955.6, E955.7, E955.9, E958.0, E958.4</td>
<td>E960.1, E965.5-9, E967.0-9, E968.4-6,7, E979.0-2, E979.5, E979.8, E979.9</td>
<td>E985.5, E985.6, E985.7, E988.0, E988.4, E997.0-2</td>
<td>E971, E978, E990-E994, E996, E997.0-2</td>
</tr>
<tr>
<td>Unspecified</td>
<td>E887, E928.9, E929.9</td>
<td>E958.9</td>
<td>E968.9</td>
<td>E988.9</td>
<td>E976, E997.9</td>
</tr>
<tr>
<td>All Injury</td>
<td>E800-E869, E880-E929</td>
<td>E950-E959</td>
<td>E960-E969, E979, E999.1</td>
<td>E980-E989</td>
<td>E970-E978, E990-E999.0</td>
</tr>
<tr>
<td>Adverse Effects</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>E870-E879, E930.0-E949.9</td>
</tr>
<tr>
<td>Medical Care</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>E870-879</td>
</tr>
<tr>
<td>Drugs</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>E930.0-e949.9</td>
</tr>
<tr>
<td>All external causes</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>E800-E999</td>
</tr>
</tbody>
</table>
Table 3: Modification of the Barell Injury Diagnosis Matrix, Classification by Body Region (Head and Neck) and Nature of the Injury

<table>
<thead>
<tr>
<th>Head and Neck</th>
<th>Traumatic Brain Injury</th>
<th>Other Head, Face, and Neck</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Type 1 TBI</td>
<td>Type 2 TBI</td>
</tr>
<tr>
<td>Fracture</td>
<td></td>
<td></td>
</tr>
<tr>
<td>800-829</td>
<td>800,801,803,804(1-.4, .6-.9)</td>
<td>800,801,803,804(00, .02,.06,.09)</td>
</tr>
<tr>
<td>Dislocation</td>
<td></td>
<td></td>
</tr>
<tr>
<td>830-839</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Sprains &amp; Strains</td>
<td></td>
<td></td>
</tr>
<tr>
<td>840-848</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Internal</td>
<td></td>
<td></td>
</tr>
<tr>
<td>850-854</td>
<td>850(.2-.4)</td>
<td>850.0</td>
</tr>
<tr>
<td>860-869</td>
<td>851</td>
<td>850.1</td>
</tr>
<tr>
<td>952</td>
<td>852</td>
<td>850.5</td>
</tr>
<tr>
<td>995.55</td>
<td>853</td>
<td>850.9</td>
</tr>
<tr>
<td>Open Wound</td>
<td></td>
<td></td>
</tr>
<tr>
<td>870-884</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>890-894</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Amputations</td>
<td></td>
<td></td>
</tr>
<tr>
<td>885-887</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>895-897</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Blood Vessels</td>
<td></td>
<td></td>
</tr>
<tr>
<td>900-904</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Contusion /</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Superficial</td>
<td>910</td>
<td>918</td>
</tr>
<tr>
<td>1910-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Crush</td>
<td>925-929</td>
<td>-</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Burns 940-949</th>
<th>-</th>
<th>-</th>
<th>-</th>
<th>941.x6</th>
<th>941.x1</th>
<th>941.x3-.5</th>
<th>941.x7</th>
<th>940</th>
<th>941.x8</th>
<th>941.x0</th>
<th>941.x9</th>
<th>947.0</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nerves 950-951</td>
<td>950.(1-.3)</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>951</td>
<td>-</td>
<td>950.0</td>
<td>950.9</td>
<td>953.0</td>
<td>954.0</td>
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<tr>
<td>953-957</td>
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<td>959.01</td>
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<td>959.09</td>
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<td></td>
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</tbody>
</table>


Table 4: Modification of the Barell Injury Diagnosis Matrix, Classification by Body Region (Spine and Back) and Nature of the Injury

<table>
<thead>
<tr>
<th>Spine and Back</th>
<th>Spinal Cord (SCI)</th>
<th>Vertebral Column (VCI)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fracture 800-829</td>
<td>806.0-.1</td>
<td>806.2-.3</td>
</tr>
<tr>
<td>Dislocation 830-839</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Sprains &amp; Strains 840-848</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Internal 850-854 860-869 952 995.55</td>
<td>952</td>
<td>952.1</td>
</tr>
<tr>
<td>Open Wound 870-884 890-894</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Amputations 885-887 895-897</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Blood Vessels 900-904</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Contusion / Superficial 910-924</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Crush 925-929</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Burns</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>---------------------------</td>
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<td>---</td>
</tr>
<tr>
<td>Nerves 950-951 953-957</td>
<td>-</td>
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<tr>
<td>Unspecified 959</td>
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<td>-</td>
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</tbody>
</table>


**Table 5: Modification of the Barell Injury Diagnosis Matrix, Classification by Body Region (Torso) and Nature of the Injury**

<table>
<thead>
<tr>
<th>Torso</th>
<th>Chest (Thorax)</th>
<th>Abdomen</th>
<th>Pelvis &amp; Urogenital</th>
<th>Trunk</th>
<th>Back and Buttock</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fracture 800-829</td>
<td>807.0-.4</td>
<td>-</td>
<td>808</td>
<td>809</td>
<td>-</td>
</tr>
<tr>
<td>Dislocation 830-839</td>
<td>839.61</td>
<td>839.71</td>
<td>-</td>
<td>839.69</td>
<td>839.79</td>
</tr>
<tr>
<td>Sprains &amp; Strains 840-848</td>
<td>848.3-.4</td>
<td>-</td>
<td>846</td>
<td>848.5</td>
<td>-</td>
</tr>
<tr>
<td>Internal 850-854 860-869 952 995.55</td>
<td>860-862</td>
<td>863-866/868</td>
<td>867</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Open Wound 870-884 890-894</td>
<td>875</td>
<td>879.0-.1</td>
<td>879.2-.5</td>
<td>877-878</td>
<td>879.6-.7</td>
</tr>
<tr>
<td>Amputations 885-887 895-897</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Blood Vessels 900-904</td>
<td>901</td>
<td>902.0-.4</td>
<td>902.5 902(.81-.82)</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Contusion/ Superficial 910-924</td>
<td>922.0 922.1 922.33</td>
<td>922.2</td>
<td>922.4</td>
<td>911 922.8-.9</td>
<td>922.31-.32</td>
</tr>
<tr>
<td>Crush 925-929</td>
<td>926.19</td>
<td>-</td>
<td>926.0 926.12</td>
<td>926.8-.9</td>
<td>926.11</td>
</tr>
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<td>Burns 940-949</td>
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### Table 6: Modification of the Barell Injury Diagnosis Matrix, Classification by Body Region (Extremities) and Nature of the Injury

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Table 7: Modification of the Barell Injury Diagnosis Matrix, Classification by Body Region (Unclassifiable by Site) and Nature of the Injury

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<td>PEYTON MANNING CHILDREN'S HOSPITAL AT ST. VINCENT</td>
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<td>Reid Hospital &amp; Health Care Services</td>
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<td>Riverview Hospital</td>
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<td>ST Mary's Warrick Hospital</td>
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<td>ST Vincent Randolph Hospital</td>
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<td>The Heart Hospital At Deaconess Gateway LLC</td>
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<td>Union Hospital, Inc</td>
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<td>Witham Health Services</td>
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<td>Witham Health Services At Anson</td>
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<td>Woodlawn Hospital</td>
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Appendix 3: Glossary of Terms
### Appendix 3: Glossary of Terms

Based on the 2016 NTDB Data Dictionary “Glossary of Terms”

#### Co-Morbid Conditions

<table>
<thead>
<tr>
<th>Co-Morbid Condition</th>
<th>ICD-9 Code Range</th>
<th>ICD-10 Code Range</th>
</tr>
</thead>
<tbody>
<tr>
<td><em>Advanced directive limiting care:</em> The patient had a Do Not Resuscitate (DNR) document or similar advanced directive recorded prior to injury.</td>
<td></td>
<td>Z66 (Do not resuscitate)</td>
</tr>
<tr>
<td>Alcoholism: Evidence of chronic use, such as withdrawal episodes. Exclude isolated elevated blood alcohol level in absence of history of abuse.</td>
<td>291.0-291.3 291.81 291.9 303.90-303.93</td>
<td>F10.220-F10.229  (Alcohol dependence with intoxication) F10.230-F10.239  (Alcohol dependence with withdrawal) F10.26 (Alcohol dependence with amnestic disorder) F10.27 (Alcohol dependence with persisting dementia) F10.280-F10.288  (Alcohol dependence with other alcohol induced disorders) F10.29 (Alcohol dependence with NOS alcohol induced disorders) F10.20-F10.21 (Alcohol dependence, in remission – Formerly V11.3)</td>
</tr>
<tr>
<td>Ascites within 30 days: The presence of fluid accumulation (other than blood) in the peritoneal cavity noted on physical examination, abdominal ultrasound, or abdominal CT/MRI.</td>
<td>789.51 789.59</td>
<td>R18.0 R18.8</td>
</tr>
</tbody>
</table>
**Attention deficit disorder/Attention deficit hyperactivity disorder (ADD/ADHD):** History of a disorder involving inattention, hyperactivity or impulsivity requiring medication for treatment.

| 314.01 |  

**Bleeding disorder:** Any condition that places the patient at risk for excessive bleeding due to a deficiency of blood clotting elements (e.g., vitamin K deficiency, hemophilia, thrombocytopenia, chronic anticoagulation therapy with Coumadin, Plavix, or similar)

| 286.0-286.9 |  

| 287.1-287.49 |  

| V58.61 |  

| V58.63 | D66 (Hereditary factor VII) D67 (Hereditary factor XI) D68.0 (Von Willebrand’s Disease) D68.1 (Hereditary factor XI) D68.2 (Hereditary deficiency of other clotting factors) D68.31-D68.32 (Hemorrhagic disorder (intrinsic, extrinsic)) D68.4 (Acquired coagulation factor deficiency) D69.1 (Qualitative platelet defects) D69.2 (Other nonthrombocytopenic purpura) D69.3 (Immune thrombocytopenic purpura) D69.41-D69.49 (Other primary thrombocytopenia) D69.51-D69.59 (Secondary thrombocytopenia) Z79.01 (Long term (current) use of anticoagulants) Z79.02 (Long term (current) use of antithrombotics/antiplatelets) |

**Chronic renal failure:** Acute or chronic renal failure prior to injury that was requiring periodic peritoneal dialysis, hemodialysis, hemofiltration, or hemo dialfiltration.

| 403.01 |  

| 403.11 |  

| 403.91 |  

| 404.02 |  

| 404.12 |  

| 404.03 |  

| 404.13 |  

| 404.92 |  

| 404.93 | I12.0 (Hypertensive CKD – Stage 5) I12.11 (Hypertensive heart and CKD – Stage 5 without heart failure) I13.2 (Hypertensive heart and CKD – Stage 5 with heart failure) N18.5 (CKD – Stage 5) N18.6 (End stage renal disease) |
| **Central line-associated bloodstream infection (CLABSI):** A laboratory-confirmed bloodstream infection (LCBI) where central line (CL) or umbilical catheter (UC) was in place for >2 calendar days on the date of event, with day of device placement being Day 1 and A CL or UC was in place on the date of event or the day before. If a CL or UC was in place for >2 calendar days and then removed, the LCBI criteria must be fully met on the day of discontinuation or the next day. If the patient is admitted or transferred into a facility with a central line in place (e.g., tunneled or implanted central line), and that is the patient’s only central line, day of first access as an inpatient is considered Day 1. “Access” is defined as line placement, infusion or withdrawal through the line. |
|---|---|---|
| **Congenital Anomalies:** Defined as documentation of a cardiac, pulmonary, body wall, CNS/spinal, GI, renal, orthopaedic, or metabolic congenital anomaly. |
| **Congestive heart failure:** Defined as the inability of the heart to pump a sufficient quantity of blood to meet the metabolic needs of the body or can do so only at an increased ventricular filling pressure. To be included, this condition must be noted in the medical record as CHF, congestive heart failure, or pulmonary edema with onset or increasing symptoms within 30 days prior to injury. Common manifestations are: | 999.32 | T80.211A Bloodstream infection due to central venous catheter, initial encounter |
| Abnormal limitation in exercise tolerance due to dyspnea or fatigue | I42.4 (Endocardial fibroelastosis)  
I42.5 (Other restrictive cardiomyopathy)  
I42.8 |
| Orthopnea (dyspnea on lying supine) |  |
| Paroxysmal nocturnal dyspnea (awakening from sleep with dyspnea) |  |
| Increased jugular venous pressure |  |
| Pulmonary rales on physical examination |  |
| Cardiomegaly |  |
| Pulmonary vascular engorgement |  |
| **Currently receiving chemotherapy for cancer:**  
A patient who is currently receiving any chemotherapy treatment for cancer prior to admission. Chemotherapy may include, but is not restricted to, oral and parenteral treatment with chemotherapeutic agents for malignancies such as colon, breast, lung, head and neck, and gastrointestinal solid tumors as well as lymphatic and hematopoietic malignancies such as lymphoma, leukemia, and multiple myeloma. | Z51.11 (Encounter for antineoplastic chemotherapy) |
| **Current smoker:**  
A patient who reports smoking cigarettes every day or some days. This excludes patients who smoke cigars or pipes or use smokeless tobacco (chewing tobacco or snuff). | F17.210 (Nicotine dependence, cigarettes, uncomplicated)  
F17.213 (Nicotine dependence, cigarettes, with withdrawal)  
F17.218-F17.219 (Nicotine dependence, cigarettes, other/NOS nicotine-induced disorders) |
| **CVA/residual neurological deficit:**  
A history prior to injury of a cerebrovascular accident (embolic, thrombotic, or hemorrhagic) with persistent residual motor sensory, or | 163.30–163.39 (Cerebral infarction – thrombosis of cerebral artery)  
164.40–164.49 (Cerebral infarction – embolism of cerebral artery)  
164.50–164.59 (Cerebral infarction – occlusion or stenosis of cerebral artery) |
| | 434.01  
434.11  
434.91  
433.01-433.91  
438.0-438.9 |
<table>
<thead>
<tr>
<th>Cognitive Dysfunction. (E.g., hemiplegia, hemiparesis, aphasia, sensory deficit, impaired memory.)</th>
<th>I63.00–I63.09 (Cerebral infarction—thrombosis of precerebral artery) I63.10–I63.19 (Cerebral infarction—embolism of precerebral artery) I63.20–I63.29 (Cerebral infarction—occlusion or stenosis of precerebral artery)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Diabetes mellitus:</strong> Diabetes mellitus prior to injury that required exogenous parenteral insulin or an oral hypoglycemic agent.</td>
<td>250.00-250.93 E08.00-E13.9 (Diabetes mellitus)</td>
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<tr>
<td><strong>Disseminated cancer:</strong> Patients who have cancer that: Has spread to one site or more sites in addition to the primary site AND In whom the presence of multiple metastases indicates the cancer is widespread, fulminant, or near terminal. Other terms describing disseminated cancer include “diffuse,” “widely metastatic,” “widespread,” or “carcinomatosis.” Common sites of metastases include major organs (e.g., brain, lung, liver, meninges, abdomen, peritoneum, pleura, bone).</td>
<td>196.0-199.1 C7B.00-C7B.8 (Secondary neuroendocrinetumors) C77.0-C77.9 (Secondary malignant neoplasms of lymph nodes) C78.00-C78.89 (Secondary malignant neoplasms of respiratory and digestive organs) C79.00-C79.9 (Secondary malignant neoplasms of other and unspecified sites) C80.0 (Disseminated malignant neoplasm NOS)</td>
</tr>
<tr>
<td><strong>Esophageal varices:</strong> Esophageal varices are engorged collateral veins in the esophagus which bypass a scarred liver to carry portal blood to the superior vena cava. A sustained increase in portal pressure results in esophageal varices which are most frequently demonstrated by direct visualization at esophagoscopy.</td>
<td>456.0-456.21 I85.00-I85.11 (Esophageal varices)</td>
</tr>
</tbody>
</table>
**Functionally dependent health status:**

Pre-injury functional status may be represented by the ability of the patient to complete activities of daily living (ADL) including: bathing, feeding, dressing, toileting, and walking. This item is marked YES if the patient, prior to injury, was partially dependent or completely dependent upon equipment, devices or another person to complete some or all activities of daily living. Formal definitions of dependency are listed below:

**Partially dependent:** The patient requires the use of equipment or devices coupled with assistance from another person for some activities of daily living. Any patient coming from a nursing home setting who is not totally dependent would fall into this category, as would any patient who requires kidney dialysis or home ventilator support that requires chronic oxygen therapy yet maintains some independent functions.

**Totally dependent:** The patient cannot perform any activities of daily living for himself/herself. This would include a patient who is totally dependent upon nursing care, or a dependent nursing home patient. All patients with psychiatric illnesses should be evaluated for their ability to function with or without assistance with ADLs just as the non-psychiatric patient.
<table>
<thead>
<tr>
<th><strong>History of angina within past 1 month:</strong></th>
<th>413.0-413.9</th>
<th>I20.0-I20.9 (Angina pectoris)</th>
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</thead>
<tbody>
<tr>
<td>Pain or discomfort between the diaphragm and the mandible resulting from myocardial ischemia. Typically angina is a dull, diffuse (fist sized or larger) substernal chest discomfort precipitated by exertion or emotion and relieved by rest or nitroglycerine. Radiation often occurs to the arms and shoulders and occasionally to the neck, jaw (mandible, not maxilla), or interscapular region. For patients on anti-anginal medications, enter yes only if the patient has had angina within one month prior to admission.</td>
<td>410.00</td>
<td>I21.01-I21.29 (STEMI myocardial infarction)</td>
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<tr>
<td><strong>Infarction:</strong></td>
<td>410.01</td>
<td>infarction)</td>
</tr>
<tr>
<td>The history of a non-Q wave, or a Q wave infarction in the six months prior to injury as diagnosed in the patient's medical record.</td>
<td>410.10</td>
<td>I21.4 (Non-STEMI myocardial infarction)</td>
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<td>410.11</td>
<td>I22.0-I22.9 (Subsequent (recurrent) myocardial infarction)</td>
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<td>410.20</td>
<td>I23.0-I23.9 (Certain current complications following myocardial infarction)</td>
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<td>410.21</td>
<td>I25.2</td>
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<tr>
<td></td>
<td>410.30</td>
<td>Z86.74 (Personal history of sudden cardiac arrest)</td>
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<td><strong>Hypertension requiring medication:</strong></td>
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<td>I10 (Essential Hypertension)</td>
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<td>History of a persistent elevation of systolic blood pressure &gt;140 mm Hg and a diastolic blood pressure &gt;90 mm Hg requiring an antihypertensive treatment (e.g., diuretics, beta blockers, angiotensin-converting enzyme (ACE) inhibitors, calcium channel blockers).</td>
<td>401.1</td>
<td>I11.0-I11.9 (Hypertensive heart disease)</td>
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<td>401.9</td>
<td>I13.0-I13.11 (Hypertensive heart and CKD)</td>
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<td>642.00-642.04</td>
<td>I15.0-I15.9 (Secondary hypertension)</td>
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<td><strong>Prematurity:</strong></td>
<td>765.00-765.19</td>
<td>P07.20-P07.23 (Extreme immaturity of newborn)</td>
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<td>Defined as documentation of premature birth, a history of bronchopulmonary dysplasia, or</td>
<td>765.20-765.29</td>
<td>P07.30-P07.32 (Other preterm newborn)</td>
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<td>770.7</td>
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ventilator support for greater than 7 days after birth.
Premature birth is defined as infants delivered before 37 weeks from the first day of the last menstrual period.

<table>
<thead>
<tr>
<th>Obesity: Defined as a Body Mass Index of 30 or greater.</th>
<th>278.00-278.01 V85.3-V85.4</th>
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(Note E66.3 – Overweight excluded) E66.01-E66.2 (Obesity from specified cause) E66.8-E66.9 (Other and NOS obesity) Z68.30-Z68.45 (BMIs 30 or greater in adults) Z68.53-Z68.54 (BMI 85 percentile or greater – pediatric)

<table>
<thead>
<tr>
<th>Respiratory Disease: Defined as severe chronic lung disease, chronic asthma, cystic fibrosis, or chronic obstructive pulmonary disease (COPD) such as emphysema and/or chronic bronchitis resulting in any one or more of the following: Functional disability from COPD (e.g., dyspnea, inability to perform activities of daily living [ADLs]) Hospitalization in the past for treatment of COPD Requires chronic bronchodilator therapy with oral or inhaled agents A Forced Expiratory Volume in 1 second (FEV1) of &lt;75% of predicted on pulmonary function testing Do not include patients whose only pulmonary disease is acute asthma. Do not include patients with diffuse interstitial fibrosis or sarcoidosis.</th>
<th>491.0-491.9 492.0-492.8 493.00-493.92 494.0-494.1 495.0-495.9 496 518.2 518.83-518.89</th>
</tr>
</thead>
</table>

J41.0-J41.8 (Simple and mucopurulent chronic bronchitis) J42 (NOS chronic bronchitis) J43.0-J43.9 (Emphysema) J44.0-J44.9 (COPD) J47.0-J47.9 (Bronchiectasis) J96.10-J96.12 (Chronic respiratory failure) J96.20-J96.22 (Acute and chronic respiratory failure) J98.3 (Compensatory emphysema)
<table>
<thead>
<tr>
<th>Steroid use:</th>
<th>V58.65</th>
<th>Z79.51-Z79.52 (Long term current drug therapy – steroids)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Patients that required the regular administration of oral or parenteral corticosteroid medications (e.g., prednisone, dexamethasone in the 30 days prior to injury for a chronic medical condition (e.g., COPD, asthma, rheumatologic disease, rheumatoid arthritis, inflammatory bowel disease). Do not include topical corticosteroids applied to the skin or corticosteroids administered by inhalation or rectally.</td>
<td>571.2</td>
<td>K70.30-K70.31 (Alcoholic cirrhosis of the liver)</td>
</tr>
<tr>
<td>Cirrhosis: Documentation in the medical record of cirrhosis, which might also be referred to as end stage liver disease. If there is documentation of prior or present esophageal or gastric varices, portal hypertension, previous hepatic encephalopathy, or ascites with notation of liver disease, then</td>
<td>571.5</td>
<td>K72.00-K72.91 (Hepatic failure)</td>
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<td>571.6</td>
<td>K74.3-K74.5 (Biliary cirrhosis)</td>
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<tr>
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<td>571.8</td>
<td>K74.60 (NOS cirrhosis of liver)</td>
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<td>571.9</td>
<td>K74.69 (Other cirrhosis of liver)</td>
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<td>572.2</td>
<td>K76.6 (Portal hypertension)</td>
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<td>K76.7 (Hepatorenal syndrome)</td>
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<tr>
<td>Cirrhosis should be considered present. Cirrhosis should also be considered present if documented by diagnostic imaging studies or a laparotomy/laparoscopy.</td>
<td></td>
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</tr>
<tr>
<td>Dementia: With particular attention to senile or vascular dementia (e.g Alzheimer’s).</td>
<td>290.0-290.43</td>
<td>F01.50-F01.51 (Vascular dementia)</td>
</tr>
<tr>
<td></td>
<td>294.0-294.11</td>
<td>F02.80-F02.81 (Dementia in other diseases classified elsewhere)</td>
</tr>
<tr>
<td></td>
<td>331.0-331.2</td>
<td>F03 (NOS dementia)</td>
</tr>
<tr>
<td></td>
<td>331.82-331.89</td>
<td>F04 (Amnestic disorder)</td>
</tr>
<tr>
<td></td>
<td>332.0-332.1</td>
<td>G30.0-G30.9 (Alzheimer’s disease)</td>
</tr>
<tr>
<td></td>
<td>333.0</td>
<td>G31.01-G31.09 (Pick’s disease &amp; other frontotemporal dementia)</td>
</tr>
<tr>
<td></td>
<td>333.4</td>
<td>G31.1 (Senile degeneration of brain)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>G31.82 (Dementia with Lewy bodies)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>G31.84 (Mild cognitive impairment)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>G31.89 (Other specified degenerative diseases of the nervous system)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>G20 (Primary Parkinson’s disease)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>G21.0-G21.9 (Secondary dementia)</td>
</tr>
</tbody>
</table>
**Major psychiatric illness:**
Defined as documentation of the presence of pre-injury major depressive disorder, bipolar disorder, schizophrenia, anxiety / panic disorder, borderline or antisocial personality disorder, and / or adjustment disorder / post-traumatic stress disorder.

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>295.00-297.9</td>
<td>F20.0-F29 (Schizophrenia and non-mood psychotic disorders)</td>
</tr>
<tr>
<td>300.0-300.09</td>
<td>F30.0-F39 (Mood [affective] disorders)</td>
</tr>
<tr>
<td>301.0-301.7</td>
<td>F44.0-F44.9 (Dissociative and conversion disorders)</td>
</tr>
<tr>
<td>301.83</td>
<td>F60.0 (Paranoid personality disorder)</td>
</tr>
<tr>
<td>309.81</td>
<td>F60.1 (Schizoid personality disorder)</td>
</tr>
<tr>
<td>311</td>
<td>F60.2 (Anti-social personality disorder)</td>
</tr>
<tr>
<td>V11.0-V11.2</td>
<td>F60.3 (Borderline personality disorder)</td>
</tr>
<tr>
<td>V11.4-V11.8</td>
<td>F60.4 (Histrionic personality disorder)</td>
</tr>
<tr>
<td></td>
<td>F60.5 (Obsessive-compulsive disorder)</td>
</tr>
<tr>
<td></td>
<td>F60.7 (Dependent personality disorder)</td>
</tr>
<tr>
<td></td>
<td>F43.10-F43.12 (PTSD)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Z86.51</td>
<td>Z86.59 (PH of combat and operational stress reaction)</td>
</tr>
</tbody>
</table>

**Drug use disorder:**
If a patient has a history documented in their medical record, they would qualify for this. If patient tests positive for an illegal drug or a legal drug that was taken illegally, they would qualify for this as well.

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>304.00-304.8</td>
<td>F11.10-F11.99 (Opioid related disorders)</td>
</tr>
<tr>
<td>305.2-305.9</td>
<td>F12.10-F12.99 (Cannabis related disorders)</td>
</tr>
<tr>
<td></td>
<td>F13.10-F13.99 (Sedative, hypnotic, or anxiolytic related disorders)</td>
</tr>
<tr>
<td></td>
<td>F14.10-F14.99 (Cocaine disorders)</td>
</tr>
<tr>
<td></td>
<td>F15.10-F15.99 (Other stimulant related disorders)</td>
</tr>
<tr>
<td></td>
<td>F16.10-F16.99 (Other hallucinogen related disorder)</td>
</tr>
<tr>
<td></td>
<td>F18.10-F18.99 (Inhalant related disorders)</td>
</tr>
<tr>
<td></td>
<td>F19.10-F19.99 (Other psychoactive substance related disorder)</td>
</tr>
</tbody>
</table>
Pre-hospital cardiac arrest with CPR:
A sudden, abrupt loss of cardiac function which occurs outside of the hospital, prior to admission at the center in which the registry is maintained, that results in loss of consciousness requiring the initiation of any component of basic and/or advanced cardiac life support by a health care provider.

### Hospital Complications

<table>
<thead>
<tr>
<th>Hospital Complications</th>
<th>ICD-9 Code Range</th>
<th>ICD-10 Code Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute kidney injury:</td>
<td>584.5-584.9</td>
<td>N17.0-N17.9 (Acute kidney failure)</td>
</tr>
<tr>
<td></td>
<td>588.0-588.9</td>
<td>N25.0 (Renal osteodystrophy)</td>
</tr>
<tr>
<td></td>
<td>585.1</td>
<td>N25.1 (Nephrogenic diabetes insipidus)</td>
</tr>
<tr>
<td></td>
<td>585.9</td>
<td>N25.89 (Other disorders result from impaired renal tubular function)</td>
</tr>
<tr>
<td></td>
<td>593.9</td>
<td>N25.9 (Disorders results from impaired renal tubular function NOS)</td>
</tr>
<tr>
<td></td>
<td>958.5</td>
<td>N18.1 (CKD Stage 1)</td>
</tr>
<tr>
<td>Acute kidney injury, AKI(stage 3)</td>
<td>584.5-584.9</td>
<td>N25.89 (Other disorders result from impaired renal tubular function NOS)</td>
</tr>
<tr>
<td>Is an abrupt (within 48 hours)</td>
<td>588.0-588.9</td>
<td>N25.9 (Disorders results from impaired renal tubular function NOS)</td>
</tr>
<tr>
<td>Reduction of kidney function</td>
<td>585.1</td>
<td>N18.1 (CKD Stage 1)</td>
</tr>
<tr>
<td>Defined as: Increase in serum Creatinine (SCr) of more than or equal to 353.3umol/l or; Patients greater than or equal to 18 years with a decrease in eGFR to less than or equal to 35 ml/min per 1.73 m (squared) or; reduction in urine output of Less than 0.3 ml/kg/hr for greater than or equal to 24 hrs</td>
<td>585.9</td>
<td>N25.89 (Other disorders result from impaired renal tubular function NOS)</td>
</tr>
<tr>
<td></td>
<td>593.9</td>
<td>T79.5xxA (Traumatic anuria – initial)</td>
</tr>
<tr>
<td></td>
<td>958.5</td>
<td></td>
</tr>
</tbody>
</table>

- **ICD-9**
- **ICD-10**
or; anuria for greater than or less than 12 hrs or; requiring renal replacement therapy (e.g. continuous renal therapy (CRRT) or periodic peritoneal dialysis, hemodialysis, hemofiltration, or hemodiafiltration).

NOTE: If the patient or family refuses treatment (e.g. dialysis,) the condition is still considered to be present if a combination of oliguria and creatinine are present.

EXCLUDE patients with renal failure that were requiring chronic renal replacement therapy such as periodic peritoneal dialysis, hemodialysis, hemofiltration, or hemodiafiltration prior to injury.

| ALI/ARDS: Acute Lung Injury/Adult (Acute) Respiratory Distress Syndrome: | 518.5  
518.82 | J95.1-J95.3 (Acute and chronic pulmonary insufficiency after surgery)  
J95.82-J95.822  
J95.89 (Other postprocedural complication & disorder of respiratory system NEC) |
<table>
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</thead>
<tbody>
<tr>
<td>ALI/ARDS occurs in conjunction with catastrophic medical conditions, such as pneumonia, shock, sepsis (or severe infection throughout the body, sometimes also referred to as systemic infection, and may include or also be called a blood or blood-borne infection), and trauma.</td>
<td>Timing: Within 1 week of known clinical insult or new or worsening respiratory symptoms.</td>
<td>Chest imaging: Bilateral opacities – not fully explained by effusions, lobar/lung collage, or nodules</td>
</tr>
<tr>
<td>Origin of edema: Respiratory failure not fully explained by cardiac failure of fluid overload. Need objective assessment (e.g., echocardiography) to exclude hybrostatic edema if no risk factor present</td>
<td>Oxygenation (at a minimum): 200&lt;Pa02/Fi02 &lt;_ 300 with PEEP or CPAP _&gt;5 cmH20c</td>
<td></td>
</tr>
</tbody>
</table>

| Cardiac arrest with CPR: Cardiac arrest is the sudden cessation of cardiac activity after hospital arrival. The patient becomes unresponsive with no normal breathing and no signs of Circulation. If corrective measures are not taken rapidly, this condition progresses to sudden death. | 427.5 in conjunction with 99.60-99.69  
427.5 with 37.91  
V12.53 | I46.2-I46.9 (Cardiac arrest) with PCS Codes of:  
5A12012 (Performance of Cardiac Output, Single, Manual)  
5A2204Z (Restoration of Cardiac Rhythm)  
02QA0ZZ (Repair of Heart, Open |
<table>
<thead>
<tr>
<th></th>
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</thead>
<tbody>
<tr>
<td>INCLUDE patients who have had an episode of cardiac arrest</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Description</td>
<td>ICD-10 Codes</td>
<td>Notes</td>
</tr>
<tr>
<td>-------------</td>
<td>-------------</td>
<td>-------</td>
</tr>
<tr>
<td>Decubitus ulcer: Defined as any partial or full thickness loss of dermis resulting from pressure exerted by the patient’s weight against a surface. Deeper tissues may or may not be involved. Equivalent to NPUAP Stages I – IV and NPUAP “unstageable” ulcers.</td>
<td>L89.000-L89.95 (Pressure ulcer) with at least one code in the range with a sixth digit ending in 2, 3, or 4 – Stage II, III, IV, e.g. L89.303 – Pressure ulcer of buttock, stage 3)</td>
<td></td>
</tr>
<tr>
<td>Deep surgical site infection:</td>
<td>674.30</td>
<td>O86.0 (Infection of obstetric surgical wound)</td>
</tr>
<tr>
<td>Defined as a deep incisional SSI must meet one of the following criteria:</td>
<td>674.32</td>
<td>674.34</td>
</tr>
<tr>
<td></td>
<td>996.60-996.63</td>
<td>996.66-996.69</td>
</tr>
<tr>
<td>Infection occurs within 30 days</td>
<td>998.59</td>
<td></td>
</tr>
<tr>
<td>after the operative procedure if</td>
<td>T82.6xxA (Infection and</td>
<td></td>
</tr>
<tr>
<td>---------------------------------</td>
<td>-------------------------</td>
<td></td>
</tr>
<tr>
<td>no implant is left in place or</td>
<td>Inflammatory reaction – cardiac</td>
<td></td>
</tr>
<tr>
<td>within one year if implant is in</td>
<td>valve – initial)</td>
<td></td>
</tr>
<tr>
<td>place and the infection appears</td>
<td>T82.7xxA (Infection and</td>
<td></td>
</tr>
<tr>
<td>to be related to the operative</td>
<td>inflammatory other CV</td>
<td></td>
</tr>
<tr>
<td>procedure and involves deep</td>
<td>devices/implants/grafts – initial)</td>
<td></td>
</tr>
<tr>
<td>soft tissues (e.g., fascial and</td>
<td>T84.50xA (Infection/inflammation</td>
<td></td>
</tr>
<tr>
<td>muscle layers) of the incision</td>
<td>– NOS internal joint prosthesis –</td>
<td></td>
</tr>
<tr>
<td>AND patient has at least one of the following:</td>
<td>T84.60xA (Infection/inflammation – internal fixation device of NOS</td>
<td></td>
</tr>
<tr>
<td>purulent drainage from the deep incision but not from the organ/space component of the surgical site of the following:</td>
<td>site – initial)</td>
<td></td>
</tr>
<tr>
<td>a deep incision spontaneously dehisces or is deliberately opened by a surgeon and is culture-positive or not cultured when the patient has at least one of the following signs or symptoms: fever (&gt;38°C), or localized pain or tenderness. A culture-negative finding does not meet this criterion.</td>
<td>T84.7xxA (Infection/inflammation other orthopedic prosthetic devices/implants/grafts – initial)</td>
<td></td>
</tr>
<tr>
<td>an abscess or other evidence of</td>
<td>T85.71xA (Infection and inflammatory reaction – peritoneal dialysis catheter – initial)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>T85.79xA (Infection and inflammatory reaction – other internal prosthetics/implants/grafts – initial)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>K68.11 (Postprocedural retroperitoneal abscess)</td>
<td></td>
</tr>
</tbody>
</table>
infection involving the deep incision is found on direct examination, during reoperation, or by histopathologic or radiologic examination

diagnosis of a deep incisional SSI by a surgeon or attending physician.

NOTE: There are two specific types of deep incisional SSIs:

Deep Incisional Primary (DIP)- a deep incisional SSI that is identified in a primary incision in a patient that has had an operation with one or more incisions (e.g., C-section incision or chest incision for CBGB)

Deep Incisional Secondary (DIS)- a deep incisional SSI that is identified in the secondary incision in a patient that has had an operation with more than one incision (e.g., donor site [leg] incision for CBGB)

REPORTING INSTRUCTIONS:

Classify infection that involves both superficial and deep incision sites as deep incisional SSI.

<table>
<thead>
<tr>
<th>Drug or alcohol withdrawal syndrome:</th>
<th>291.0</th>
<th>291.3</th>
<th>291.81</th>
<th>292.0</th>
<th>F10.230-F10.239 (Alcohol dependence with withdrawal) F11.23 (Opioid dependence with withdrawal) F13.230-F13.239 (Sedative dependence with withdrawal) F14.23 (Cocaine dependence with withdrawal) F15.23 (Other stimulant dependence with withdrawal) F19.230-F19.239 (Other psychoactive substance dependence with withdrawal)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Defined as a set of symptoms that may occur when a person who has been habitually drinking too much alcohol or habitually using certain drugs (e.g. narcotics, benzodiazepine) experiences physical symptoms upon suddenly stopping consumption. Symptoms may include: activation syndrome (i.e., tremulousness, agitation, rapid heartbeat and high blood pressure), seizures, hallucinations or delirium tremens.</td>
<td></td>
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<td></td>
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<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Deep Vein Thrombosis (DVT):</th>
<th>451.0</th>
<th>451.11</th>
<th>451.19</th>
<th>I81.10-I80.13 (phlebitis and thrombophlebitis of femoral vein) I81.201-I81.299 (Phlebitis and thrombophlebitis of other and unspecified sites)</th>
</tr>
</thead>
<tbody>
<tr>
<td>The formation, development, or existence of a blood clot or thrombus within the vascular</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

thrombophlebitis of other and unspecified sites
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.

<table>
<thead>
<tr>
<th>ICD-10</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>451.81-451.84</td>
<td>Unspecified veins of lower extremity</td>
</tr>
<tr>
<td>451.89</td>
<td>I80.3 (Phlebitis and thrombophlebitis of lower extremity)</td>
</tr>
<tr>
<td>451.9</td>
<td>I80.8 (Phlebitis and thrombophlebitis of other site)</td>
</tr>
<tr>
<td>453.40</td>
<td>I80.9 (Phlebitis and thrombophlebitis of NOS site)</td>
</tr>
<tr>
<td>459.10-459.19</td>
<td>I87.001-I87.099 (Post-thrombotic syndrome)</td>
</tr>
<tr>
<td>997.2</td>
<td>T80.1xxA (Vascular complication infaction/transfusion/therapeutic injection – initial)</td>
</tr>
<tr>
<td>999.2</td>
<td>I82.4-I82.429 T81.72xA (Complication of vein after procedure NEC – initial)</td>
</tr>
</tbody>
</table>

**Extremity compartment syndrome:**

Defined as a condition not present at admission in which there is documentation of tense muscular compartments of an extremity through clinical assessment or direct measurement of intracompartmental pressure requiring fasciotomy. Compartment syndromes usually involve the leg but can also occur in the forearm, arm, thigh, and shoulder. Record as a complication if it is originally missed, leading to late recognition, a need for late intervention, and has threatened limb viability.

<table>
<thead>
<tr>
<th>ICD-10</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>729.71</td>
<td>M79.A11-M79.A19 (Nontraumatic compartment syndrome of UE)</td>
</tr>
<tr>
<td>729.72</td>
<td>M79.A21-M79.A29 (Nontraumatic compartment syndrome of LE)</td>
</tr>
<tr>
<td>998.89</td>
<td>T79.A11A (Traumatic compartment syndrome of right UE initial)</td>
</tr>
<tr>
<td>958.91</td>
<td>T79.A12A (Traumatic compartment syndrome of left UE initial)</td>
</tr>
<tr>
<td>958.92</td>
<td>T79.A19A (Traumatic compartment syndrome of NOS UE initial)</td>
</tr>
<tr>
<td>958.90</td>
<td>T79.A21A (Traumatic compartment syndrome of right LE initial)</td>
</tr>
<tr>
<td></td>
<td>T79.A22A (Traumatic compartment syndrome of left LE initial)</td>
</tr>
<tr>
<td></td>
<td>T79.A29A (Traumatic compartment syndrome of NOS LE initial)</td>
</tr>
</tbody>
</table>

**Graft/prosthesis/flap failure:**

Mechanical failure of an extracardiac vascular graft or prosthesis including myocutaneous flaps and skin grafts requiring return to the operating room or a balloon angioplasty.

<table>
<thead>
<tr>
<th>ICD-10</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>996.00</td>
<td>(initial codes only – ending with 7 character designation of A)</td>
</tr>
<tr>
<td>996.1</td>
<td>T82.010A (Breakdown of heart valve prosthesis – initial)</td>
</tr>
<tr>
<td>996.52</td>
<td>T82.110x-T82.119x (Breakdown of cardiac electronic devices and implants)</td>
</tr>
<tr>
<td>996.55</td>
<td>T82.211A (Breakdown of coronary artery bypass graft)</td>
</tr>
<tr>
<td>996.61</td>
<td>T82.310x-T82.319x (Breakdown of vascular grafts)</td>
</tr>
<tr>
<td>996.62</td>
<td>T82.41xA (Breakdown of vascular dialysis catheter)</td>
</tr>
<tr>
<td>996.72</td>
<td></td>
</tr>
</tbody>
</table>

382
<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>T82.510x-T82.519x</td>
<td>Breakdown of cardiac and vascular devices and implants</td>
</tr>
<tr>
<td>T83.010A</td>
<td>Breakdown of cystostomy catheter - initial</td>
</tr>
<tr>
<td>T83.080A</td>
<td>Breakdown of other indwelling urethral catheter - initial</td>
</tr>
<tr>
<td>T83.110x-T83.118x</td>
<td>Breakdown of other urinary catheter</td>
</tr>
<tr>
<td>T83.21xA</td>
<td>Breakdown of graft of urinary organ - initial</td>
</tr>
<tr>
<td>T83.410A</td>
<td>Breakdown of penile device/implant/graff - genitalia - initial</td>
</tr>
<tr>
<td>T83.418A</td>
<td>Breakdown of other prosthetic device/implant/graff - genitalia - initial</td>
</tr>
<tr>
<td>T84.010A</td>
<td>Broken internal R hip prosthesis - initial</td>
</tr>
<tr>
<td>T84.011A</td>
<td>Broken internal L hip prosthesis - initial</td>
</tr>
<tr>
<td>T84.012A</td>
<td>Broken internal R knee prosthesis - initial</td>
</tr>
<tr>
<td>T84.013A</td>
<td>Broken internal L knee prosthesis - initial</td>
</tr>
<tr>
<td>T84.018A</td>
<td>Broken internal joint prosthesis other site - initial</td>
</tr>
<tr>
<td>T84.110x-T84.119x</td>
<td>Breakdown of internal fixation device for long bones</td>
</tr>
<tr>
<td>T84.210x-T84.218x</td>
<td>Breakdown of internal fixation device for bones of foot/hand, vertebrae, and other bones NEC</td>
</tr>
<tr>
<td>T84.310A</td>
<td>Breakdown of electronic bone stimulator - initial</td>
</tr>
<tr>
<td>T84.318A</td>
<td>Breakdown of other bone device, implants, grafts - initial</td>
</tr>
<tr>
<td>T85.01xA</td>
<td>Breakdown of ventricular intracranial shunt - initial</td>
</tr>
<tr>
<td>T85.110x-T85.118x</td>
<td>Breakdown of implanted electronic stimulator of nervous system</td>
</tr>
<tr>
<td>T85.21xA</td>
<td>Breakdown of intraocular lens - initial</td>
</tr>
<tr>
<td>T85.310x-T85.318x</td>
<td>Breakdown of ocular prosthetic device</td>
</tr>
<tr>
<td>T85.41xA</td>
<td>Breakdown of GI prosthesis - initial</td>
</tr>
<tr>
<td>T85.510x-T85.518x</td>
<td>Breakdown of cardiac and vascular devices and implants</td>
</tr>
<tr>
<td>Condition</td>
<td>Code</td>
</tr>
<tr>
<td>-----------------------------------------</td>
<td>----------------</td>
</tr>
<tr>
<td><strong>Myocardial infarction:</strong></td>
<td>414.8 412</td>
</tr>
<tr>
<td></td>
<td>I21.01-I21.29</td>
</tr>
<tr>
<td></td>
<td>I21.4</td>
</tr>
<tr>
<td></td>
<td>I22.0-I22.9</td>
</tr>
<tr>
<td><strong>Organ/space surgical site infection:</strong></td>
<td>998.59</td>
</tr>
<tr>
<td></td>
<td>T81.4xxA</td>
</tr>
<tr>
<td></td>
<td>K68.11</td>
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</tr>
<tr>
<td><strong>Pneumonia:</strong></td>
<td>480.0-480.9</td>
</tr>
<tr>
<td></td>
<td>481</td>
</tr>
<tr>
<td></td>
<td>482.0-482.3</td>
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<tr>
<td></td>
<td>482.30-483.39</td>
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<td></td>
<td>482.40-482.49</td>
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<td></td>
<td>482.81-48.89</td>
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<td></td>
<td>482.9</td>
</tr>
<tr>
<td></td>
<td>483.0-483.8</td>
</tr>
<tr>
<td></td>
<td>484.1-484.8</td>
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<tr>
<td></td>
<td>485</td>
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<tr>
<td></td>
<td>486</td>
</tr>
<tr>
<td>Condition</td>
<td>ICD-10-CM Code</td>
</tr>
<tr>
<td>-----------</td>
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</tr>
<tr>
<td>New onset of purulent sputum or change in character of sputum</td>
<td>997.31</td>
</tr>
<tr>
<td>Isolation of pathogen from specimen obtained by transtracheal aspirate, bronchial brushing, or biopsy</td>
<td></td>
</tr>
<tr>
<td>Criterion 2. Chest radiographic examination shows new or progressive infiltrate, consolidation, cavitation, or pleural effusion AND any of the following: New onset of purulent sputum or change in character of sputum</td>
<td></td>
</tr>
<tr>
<td>Isolation of pathogen from specimen obtained by transtracheal aspirate, bronchial brushing, or biopsy</td>
<td></td>
</tr>
<tr>
<td>Isolation of virus or detection of viral antigen in respiratory secretions</td>
<td></td>
</tr>
<tr>
<td>Diagnostic single antibody titer (IgM) or fourfold increase in paired serum samples (IgG) for pathogen</td>
<td></td>
</tr>
<tr>
<td>Histopathologic evidence of pneumonia</td>
<td></td>
</tr>
<tr>
<td><strong>Pulmonary embolism:</strong> Defined as a lodging of a blood clot in a pulmonary artery with subsequent obstruction of blood supply to the lung parenchyma. The blood clots usually originate from the deep leg veins or the pelvic venous system. Consider the condition present if the patient has a V-Q scan interpreted as high probability of pulmonary embolism or a positive pulmonary arteriogram or positive CT angiogram.</td>
<td>415.11 415.12 415.19 416.2</td>
</tr>
<tr>
<td><strong>Stroke/CVA:</strong> A focal or global neurological deficit of rapid onset and NOT present on admission. The patient must have at least one of the following symptoms:</td>
<td>434.01 434.11 434.91 433.01-433.91 997.02</td>
</tr>
<tr>
<td>Change in level of consciousness</td>
<td></td>
</tr>
<tr>
<td>Hemiplegia</td>
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<td>----------------------------------</td>
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</tr>
<tr>
<td>Hemiparesis</td>
<td></td>
</tr>
<tr>
<td>Numbness or sensory loss</td>
<td></td>
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<tr>
<td>affecting one side of the body</td>
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<tr>
<td>Dysphasia or aphasia</td>
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<tr>
<td>Hemianopia</td>
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<tr>
<td>Amaurosis fugax</td>
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<tr>
<td>Or other neurological signs or</td>
<td></td>
</tr>
<tr>
<td>symptoms consistent with stroke</td>
<td></td>
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<tr>
<td>AND</td>
<td></td>
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<tr>
<td>Duration of neurological deficit</td>
<td></td>
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<tr>
<td>≥24 h</td>
<td></td>
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<tr>
<td>OR</td>
<td></td>
</tr>
<tr>
<td>Duration of deficit &lt;24 h, if</td>
<td></td>
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<tr>
<td>neuroimaging (MR, CT, or</td>
<td></td>
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<tr>
<td>cerebral angiography) documents</td>
<td></td>
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<tr>
<td>a new hemorrhage or infarct</td>
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<tr>
<td>consistent with stroke, or</td>
<td></td>
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<tr>
<td>therapeutic intervention(s) were</td>
<td></td>
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<tr>
<td>performed for stroke, or the</td>
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<tr>
<td>neurological deficit results in</td>
<td></td>
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<tr>
<td>death</td>
<td></td>
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<tr>
<td>AND</td>
<td></td>
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<tr>
<td>No other readily identifiable</td>
<td></td>
</tr>
<tr>
<td>nonstroke cause, e.g.,</td>
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<tr>
<td>progression of existing traumatic</td>
<td></td>
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<tr>
<td>brain injury, seizure, tumor,</td>
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<tr>
<td>metabolic or pharmacologic</td>
<td></td>
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<tr>
<td>etiologies, is identified</td>
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<tr>
<td>AND</td>
<td></td>
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<tr>
<td>Diagnosis is confirmed by</td>
<td></td>
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<tr>
<td>neurology or neurosurgical</td>
<td></td>
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<tr>
<td>specialist or neuroimaging</td>
<td></td>
</tr>
<tr>
<td>procedure (MR, CT, angiography)</td>
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</tr>
<tr>
<td>or lumbar puncture (CSF</td>
<td></td>
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<tr>
<td>demonstrating intracranial</td>
<td></td>
</tr>
<tr>
<td>hemorrhage that was not present</td>
<td></td>
</tr>
<tr>
<td>on admission).</td>
<td></td>
</tr>
<tr>
<td>Although the neurologic deficit</td>
<td></td>
</tr>
</tbody>
</table>

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must not present on admission, risk factors predisposing to stroke (e.g., blunt cerebrovascular injury, dysrhythmia) may be present on admission.

| **Superficial surgical site infection:** Defined as an infection that occurs within 30 days after an operation and infection involves only skin or subcutaneous tissue of the incision and at least one of the following: Purulent drainage, with or without laboratory confirmation, from the superficial incision. Organisms isolated from an aseptically obtained culture of fluid or tissue from the superficial incision. At least one of the following signs or symptoms of infection: pain or tenderness, localized swelling, redness, or heat and superficial incision is deliberately opened by the surgeon, unless incision is culture-negative. Diagnosis of superficial incisional surgical site infection by the surgeon or attending physician. Do not report the following conditions as superficial surgical site infection: Stitch abscess (minimal inflammation and discharge confined to the points of suture penetration). Infected burn wound. Incisional SSI that extends into the fascial and muscle layers (see deep surgical site infection). | 998.59 | K68.11 (Postprocedural retroperitoneal abscess) T81.4xxA |

| **Unplanned intubation:** Patient requires placement of an endotracheal tube and mechanical or assisted |
ventilation because of the onset of respiratory or cardiac failure manifested by severe respiratory distress, hypoxia, hypercarbia, or respiratory acidosis. In patients who were intubated in the field or Emergency Department, or those intubated for surgery, unplanned intubation occurs if they require reintubation > 24 hours after extubation.

<table>
<thead>
<tr>
<th><strong>Urinary Tract Infection:</strong> Defined as an infection anywhere along the urinary tract with clinical evidence of infection, which includes at least one of the following symptoms with no other recognized cause:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fever ≥38 C</td>
</tr>
<tr>
<td>WBC &gt; 100,000 or &lt; 3000 per cubicmillimeter</td>
</tr>
<tr>
<td>Urgency</td>
</tr>
<tr>
<td>Frequency</td>
</tr>
<tr>
<td>Dysuria</td>
</tr>
<tr>
<td>Suprapubic tenderness</td>
</tr>
<tr>
<td>AND</td>
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<tr>
<td>positive urine culture (≥100,000 microorganisms per cm³ of urine with no more than two species of microorganisms)</td>
</tr>
<tr>
<td>OR</td>
</tr>
<tr>
<td>at least two of the following signs or symptoms with no other recognized cause:</td>
</tr>
<tr>
<td>Fever ≥38 C</td>
</tr>
<tr>
<td>WBC &gt; 100,000 or &lt; 3000 per cubicmillimeter</td>
</tr>
<tr>
<td>Urgency</td>
</tr>
<tr>
<td>Frequency</td>
</tr>
<tr>
<td>595.0-595.9 or 599.0</td>
</tr>
<tr>
<td>N30.00-N30.91 (Cystitis)</td>
</tr>
<tr>
<td>N39.0 (Urinary Tract Infection, site not specified)</td>
</tr>
</tbody>
</table>
Dysuria
Suprapubic tenderness

AND at least one of the following:

Positive dipstick for leukocyte esterase and/or nitrate

Pyuria (urine specimen with >10 WBC/mm$^3$ or >3 WBC/high power field of unspun urine)

Organisms seen on Gram stain of unspun urine

At least two urine cultures with repeated isolation of the same uropathogen (gram-negative bacteria or S. saprophyticus) with ≥102 colonies/ml in nonvoided specimens

≤105 colonies/ml of a single uropathogen (gram-negative bacteria or S. saprophyticus) in a patient being treated with an effective antimicrobial agent for a urinary tract infection

Physician diagnosis of a urinary tract infection

Physician institutes appropriate therapy for a urinary tract infection

Excludes asymptomatic bacteriuria and “other” UTIs that are more like deep space infections of the urinary tract.

<table>
<thead>
<tr>
<th><strong>Catheter-Related Blood Stream Infection:</strong></th>
<th><strong>Code</strong></th>
<th><strong>Description</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Defined as organism cultured from the bloodstream that is not related to an infection at another site but is attributed to a central venous catheter. Patients must have evidence of infection including at least one of:</td>
<td>993.1</td>
<td>R78.81 (Bacteremia)</td>
</tr>
<tr>
<td>Criterion 1: Patient has a recognized pathogen cultured from one or more blood cultures</td>
<td>790.7</td>
<td>A40.0 (Streptococcal sepsis, group A)</td>
</tr>
<tr>
<td></td>
<td>038.0</td>
<td>A40.1 (Streptococcal sepsis, group B)</td>
</tr>
<tr>
<td></td>
<td>038.1</td>
<td>A40.8 (Other streptococcal sepsis)</td>
</tr>
<tr>
<td></td>
<td>038.10</td>
<td>A40.9 (Streptococcal sepsis, unspecified)</td>
</tr>
<tr>
<td></td>
<td>038.11</td>
<td>A41.01 (Sepsis due to Methicillin susceptible staphylococcus aureus)</td>
</tr>
<tr>
<td></td>
<td>038.19</td>
<td>A41.02 (Sepsis due to Methicillin</td>
</tr>
</tbody>
</table>
and organism cultured from blood is not related to an infection at another site.

Criterion 2: Patient has at least one of the following signs or symptoms:
Fever >38°C
Chills
WBC > 100,000 or < 3000 per cubic millimeter
Hypotension (SBP < 90) or >25% drop in systolic blood pressure
Signs and symptoms and positive laboratory results are not related to an infection at another site AND
Common skin contaminant (i.e., diphtheroids {Corynebacterium spp.}, Bacillus {not B. anthracis} spp., Propionibacterium spp., coagulase-negative staphylococci [including S. epidermidis], viridans group streptococci, Aerococcus spp., Micrococcus spp.) is cultured from two or more blood cultures drawn on separate occasions.

Criterion 3:
Patient < 1 year of age has at least one of the following signs or symptoms:
Fever (>38°C core)
Hypothermia (<36°C core), Apnea, or bradycardia
Signs and symptoms and positive laboratory results are not related to an infection at another site and common skin contaminant (i.e., diphtheroids {Corynebacterium spp.}, Bacillus {not B. anthracis} spp., Propionibacterium spp., coagulase-negative staphylococci [including S. epidermidis], viridans group streptococci, Aerococcus spp., Micrococcus spp.) is cultured from two or more blood cultures drawn on separate occasions.

Erythema at the entry site of the central line or positive cultures on

<table>
<thead>
<tr>
<th>resistant staphylococcus aureus</th>
<th>A41.1 (Sepsis due to other specified staphylococcus)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A41.2 (Sepsis due to unspecified staphylococcus)</td>
<td>A41.4 (Sepsis due to anaerobes)</td>
</tr>
<tr>
<td>A41.50-A41.59 (Gram-negative sepsis)</td>
<td>A41.81-A41.89 (Other specified sepsis)</td>
</tr>
<tr>
<td>A41.9 (Sepsis, unspecified organism)</td>
<td></td>
</tr>
</tbody>
</table>
the tip of the line in the absence of positive blood cultures is not considered a CRBSI

<table>
<thead>
<tr>
<th><strong>Osteomyelitis:</strong></th>
<th>730.00-730.29</th>
<th>M86.00M86.9 (Osteomyelitis)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Defined as meeting at least one of the following criteria:</td>
<td></td>
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<tr>
<td>Organisms cultured from bone.</td>
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<td></td>
</tr>
<tr>
<td>Evidence of osteomyelitis on direct examination of the bone during a surgical operation or histopathologic examination.</td>
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<td></td>
</tr>
<tr>
<td>At least two of the following signs or symptoms with no other recognized cause: fever (38°C), localized swelling, tenderness, heat, or drainage at suspected site of bone infection and at least one of the following: Organisms cultured from blood Positive blood antigen test (e.g., H. influenzae, S. pneumoniae) Radiographic evidence of infection, e.g., abnormal findings on x-ray, CT scan, magnetic resonance imaging (MRI), radiolabel scan (gallium, technetium, etc.)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Unplanned return to the OR:</strong></th>
<th>730.00-730.29</th>
<th>M86.00M86.9 (Osteomyelitis)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unplanned return to the operating room after initial operation management for a similar or related previous procedure.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Unplanned return to the ICU:</strong></th>
<th>730.00-730.29</th>
<th>M86.00M86.9 (Osteomyelitis)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unplanned return to the intensive care unit after initial ICU discharge. Does not apply if ICU care is required for postoperative care of a planned surgical procedure.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
**Ventilator-associated Pneumonia (VAP):** A pneumonia where the patient is on mechanical ventilation for >2 calendar days on the date of event, with day of ventilator placement being Day 1 and the ventilator was in place on the date of event or the day before. If the patient is admitted or transferred into a facility on a ventilator, the day of admission is considered Day 1.

<table>
<thead>
<tr>
<th>Code</th>
<th>Diagnosis</th>
</tr>
</thead>
<tbody>
<tr>
<td>997.31</td>
<td>J95.851 Ventilator associated pneumonia</td>
</tr>
</tbody>
</table>

**Severe sepsis:** Sepsis and/or Severe Sepsis: Defined as an obvious source of infection with bacteremia and two or more of the following:

- Temp $> 38^\circ$ C or $< 36^\circ$ C
- White Blood Cell count $> 12,000$/mm³, or $>20\%$ immature
- (Source of Infection)

<table>
<thead>
<tr>
<th>Code</th>
<th>Diagnosis</th>
</tr>
</thead>
<tbody>
<tr>
<td>785.52</td>
<td>R65.20-R65.21 (Severe Sepsis)</td>
</tr>
<tr>
<td>995.92</td>
<td></td>
</tr>
</tbody>
</table>

**Hypotension – (Severe Sepsis)**

Evidence of hypoperfusion:
- (Severe Sepsis)
- Anion gap or lactic acidosis or Oliguria, or Altered mental status
Other Terms

Patient's Occupational Industry: The occupational history associated with the patient’s work environment.

Field Value Definitions:

a. **Finance and Insurance** - The Finance and Insurance sector comprises establishments primarily engaged in financial transactions (transactions involving the creation, liquidation, or change in ownership of financial assets) and/or in facilitating financial transactions. Three principal types of activities are identified:
   a. Raising funds by taking deposits and/or issuing securities and, in the process, incurring liabilities.
   b. Pooling of risk by underwriting insurance and annuities.
   c. Providing specialized services facilitating or supporting financial intermediation, insurance, and employee benefit programs.

b. **Real Estate** - Industries in the Real Estate subsector group establishments that are primarily engaged in renting or leasing real estate to others; managing real estate for others; selling, buying, or renting real estate for others; and providing other real estate related services, such as appraisal services.

c. **Manufacturing** - The Manufacturing sector comprises establishments engaged in the mechanical, physical, or chemical transformation of materials, substances, or components into new products. Establishments in the Manufacturing sector are often described as plants, factories, or mills and characteristically use power-driven machines and materials- handling equipment. However, establishments that make new products by hand, such as bakeries, candy stores, and custom tailors, may also be included in this sector.

d. **Retail Trade** - The Retail Trade sector comprises establishments engaged in retailing merchandise, generally without transformation, and rendering services incidental to the sale of merchandise. The retailing process is the final step in the distribution of merchandise; retailers are, therefore, organized to sell merchandise in small quantities to the general public. This sector comprises two main types of retailers:
   a. Store retailers operate fixed point-of-sale locations, located and designed to attract a high volume of walk-in customers.
   b. Non-store retailers, like store retailers, are organized to serve the general public, but their retailing methods differ.

e. **Transportation and Public Utilities** - The Transportation and Warehousing sector includes industries providing transportation of passengers and cargo, warehousing and storage for goods, scenic and sightseeing transportation, and support activities related to modes of transportation. The Utilities sector comprises establishments engaged in the provision of the following utility services: electric power, natural gas, steam supply, water supply, and sewage removal.

f. **Agriculture, Forestry, Fishing** - The Agriculture, Forestry, Fishing and Hunting sector comprises establishments primarily engaged in growing crops, raising animals, harvesting timber, and harvesting fish and other animals from a farm, ranch, or their natural habitats. The establishments in this sector are often described as farms, ranches, dairies, greenhouses, nurseries, orchards, or hatcheries.

g. **Professional and Business Services** - The Professional, Scientific, and Technical Services sector comprises establishments that specialize in performing professional, scientific, and technical activities for others. These activities require a high degree of expertise and training. The establishments in this sector specialize according to expertise and provide these services to clients in a variety of industries and, in some cases, to households. Activities performed include: legal advice and representation; accounting, bookkeeping, and payroll services; architectural, engineering, and specialized design services; computer services; consulting services; research services; advertising services; photographic services; translation and interpretation services; veterinary services; and other professional, scientific, and technical services.
h. **Education and Health Services** - The Educational Services sector comprises establishments that provide instruction and training in a wide variety of subjects. This instruction and training is provided by specialized establishments, such as schools, colleges, universities, and training centers. These establishments may be privately owned and operated for profit or not for profit, or they may be publicly owned and operated. They may also offer food and/or accommodation services to their students. The Health Care and Social Assistance sector comprises establishments providing health care and social assistance for individuals. The sector includes both health care and social assistance because it is sometimes difficult to distinguish between the boundaries of these two activities.

i. **Construction** - The construction sector comprises establishments primarily engaged in the construction of buildings or engineering projects (e.g., highways and utility systems). Establishments primarily engaged in the preparation of sites for new construction and establishments primarily engaged in subdividing land for sale as building sites also are included in this sector. Construction work done may include new work, additions, alterations, or maintenance and repairs.

j. **Government** - Civil service employees, often called civil servants or public employees, work in a variety of fields such as teaching, sanitation, health care, management, and administration for the federal, state, or local government. Legislatures establish basic prerequisites for employment such as compliance with minimal age and educational requirements and residency laws.

k. **Natural Resources and Mining** - The Mining sector comprises establishments that extract naturally occurring mineral solids, such as coal and ores; liquid minerals, such as crude petroleum; and gases, such as natural gas. The term mining is used in the broad sense to include quarrying, well operations, beneficiating (e.g., crushing, screening, washing, and flotation), and other preparation customarily performed at the mine site, or as a part of mining activity.

l. **Information Services** - The Information sector comprises establishments engaged in the following processes: (a) producing and distributing information and cultural products, (b) providing the means to transmit or distribute these products as well as data or communications, and (c) processing data.

m. **Wholesale Trade** - The Wholesale Trade sector comprises establishments engaged in wholesaling merchandise, generally without transformation, and rendering services incidental to the sale of merchandise. The merchandise described in this sector includes the outputs of agriculture, mining, manufacturing, and certain information industries, such as publishing.

n. **Leisure and Hospitality** - The Arts, Entertainment, and Recreation sector includes a wide range of establishments that operate facilities or provide services to meet varied cultural, entertainment, and recreational interests of their patrons. This sector comprises (1) establishments that are involved in producing, promoting, or participating in live performances, events, or exhibits intended for public viewing; (2) establishments that preserve and exhibit objects and sites of historical, cultural, or educational interest; and (3) establishments that operate facilities or provide services that enable patrons to participate in recreational activities or pursue amusement, hobby, and leisure-time interests. The Accommodation and Food Services sector comprises establishments providing customers with lodging and/or preparing meals, snacks, and beverages for immediate consumption. The sector includes both accommodation and food services establishments because the two activities are often combined at the same establishment.

o. **Other Services** - The Other Services sector comprises establishments engaged in providing services not specifically provided for elsewhere in the classification system. Establishments in this sector are primarily engaged in activities, such as equipment and machinery repairing, promoting or administering religious activities, grantmaking, advocacy,

**Patient's Occupation**: The occupation of the patient.

**Field Value Definitions**:

a. **Business and Financial Operations Occupations**
Buyers and Purchasing
Agents Accountants and Auditors
Claims Adjusters, Appraisers, Examiners, and Investigators
Human Resources Workers
Market Research Analysts and Marketing Specialists
Business Operations Specialists, All Other

b. **Architecture and Engineering Occupations**
Landscape Architects
Surveyors, Cartographers, and Photogrammetrists Agricultural Engineers
Chemical Engineers
Civil Engineers
Electrical Engineers

c. **Community and Social Services Occupations**
Marriage and Family Therapists
Substance Abuse and Behavioral Disorder Counselors
Healthcare Social Workers
Probation Officers and Correctional Treatment Specialists
Clergy

d. **Education, Training, and Library Occupations**
Engineering and Architecture Teachers,
Postsecondary Math and Computer Teachers,
Postsecondary Nursing Instructors and Teachers, Postsecondary
Law, Criminal Justice, and Social Work Teachers, Postsecondary
Preschool and Kindergarten Teachers
Librarians

e. **Healthcare Practitioners and Technical Occupations**
Dentists, All Other
Specialists Dietitians and Nutritionists Physicians and Surgeons Nurse Practitioners
Cardiovascular Technologists and Technicians
Emergency Medical Technicians and Paramedics

f. **Protective Service Occupations**
Firefighters
Police Officers
Animal Control Workers
Security Guards
Lifeguards, Ski Patrol, and Other Recreational Protective Service

g. **Building and Grounds Cleaning and Maintenance**
Building Cleaning Workers
Landscaping and Grounds keeping Workers Pest Control Workers
Pesticide Handlers, Sprayers, and Applicators, Vegetation
Tree Trimmers and Pruners

h. **Sales and Related Occupations**
Advertising Sales Agents
Retail Salespersons
Counter and Rental Clerks
Door-to-Door Sales Workers, News and Street Vendors, and Related Workers
Real Estate Brokers
i. **Farming, Fishing, and Forestry Occupations**  
   Animal Breeders  
   Fishers and Related Fishing Workers  
   Agricultural Equipment Operators, Hunters, and Trappers  
   Forest and Conservation Workers  
   Logging Workers  

j. **Installation, Maintenance, and Repair Occupations**  
   Electric Motor, Power Tool, and Related Repairers  
   Aircraft Mechanics and Service Technicians  
   Automotive Glass Installers and Repairers  
   Heating, Air Conditioning, and Refrigeration Mechanics and Installers  
   Maintenance Workers, Machinery  
   Industrial Machinery Installation, Repair, and Maintenance Workers  

k. **Transportation and Material Moving Occupations**  
   Rail Transportation Workers, All Other  
   Subway and Streetcar Operators  
   Packers and Packagers, Hand  
   Refuse and Recyclable Material Collectors  
   Material Moving Workers, All Other  
   Driver/Sales Workers  

l. **Management Occupations**  
   Public Relations and Fundraising Managers  
   Marketing and Sales Managers  
   Administrative Services Managers  
   Transportation, Storage, and Distribution Managers  
   Transportation, Storage, and Distribution Managers  
   Food Service Managers  

m. **Computer and Mathematical Occupations**  
   Web Developers  
   Software Developers and Programmers  
   Database Administrators  
   Statisticians  
   Computer Occupations, All Other  

n. **Life, Physical, and Social Science Occupations**  
   Psychologists  
   Economists  
   Foresters  
   Zoologists and Wildlife Biologists  
   Political Scientists  
   Agricultural and Food Science Technicians  

o. **Legal Occupations**  
   Lawyers and Judicial Law Clerks  
   Paralegals and Legal Assistants  
   Court Reporters  
   Administrative Law Judges, Adjudicators, and Hearing Officers  
   Arbitrators, Mediators, and Conciliators  
   Title Examiners, Abstractors, and Searchers  

p. **Arts, Design, Entertainment, Sports, and Media**  
   Artists and Related Workers, All Other  
   Athletes, Coaches, Umpires, and Related Workers  
   Dancers and Choreographers  
   Reporters and Correspondents  
   Interpreters and Translators  
   Photographers  

**Healthcare Support Occupations**  
   Nursing, Psychiatric, and Home Health Aides  
   Physical Therapist Assistants and Aides
Veterinary Assistants and Laboratory Animal Caretakers
Healthcare Support Workers, All Other
Medical Assistants
q. **Food Preparation and Serving Related**
   Bartenders
   Cooks, Institution and Cafeteria
   Cooks, Fast Food
   Counter Attendants, Cafeteria, Food Concession, and Coffee Shop
   Waiters and Waitresses
   Dishwashers
r. **Personal Care and Service Occupations**
   Animal Trainers
   Amusement and Recreation Attendants
   Barbers, Hairdressers, Hairstylists and Cosmetologists
   Baggage Porters, Bellhops, and Concierges
   Tour Guides and Escorts
   Recreation and Fitness Workers
s. **Office and Administrative Support Occupations**
   Bill and Account Collectors
   Gaming Cage Workers
   Payroll and Timekeeping Clerks
   Tellers
   Court, Municipal, and License Clerks
   Hotel, Motel, and Resort Desk Clerks
t. **Construction and Extraction Occupations**
   Brickmasons, Blockmasons, and Stonemasons
   Carpet, Floor, and Tile Installers and Finishers
   Construction Laborers
   Electricians
   Pipelayers, Plumbers, Pipefitters, and Steamfitters
   Roofers
u. **Production Occupations**
   Electrical, Electronics, and Electromechanical Assemblers
   Engine and Other Machine Assemblers
   Structural Metal Fabricators and Fitters
   Butchers and Meat Cutters
   Machine Tool Cutting Setters, Operators, and Tenders, Metal and Plastic
   Welding, Soldering, and Brazing Workers
v. **Military Specific Occupations**
   Air Crew Officers
   Armored Assault Vehicle Officers
   Artillery and Missile Officers
   Infantry Officers
   Military Officer Special and Tactical Operations Leaders, All Other and providing dry cleaning and laundry services, personal care services, death care services, pet care services, photofinishing services, temporary parking services, and dating services.

*Foreign Visitor* is defined as any person visiting a country other than his/her usual place of residence for any reason.

*Intermediate care facility:* A facility providing a level of medical care that is less than the degree of care and treatment that a hospital or skilled nursing facility is designed to provide but greater than the level of room and board.

*Home Health Service:* A certified service approved to provide care received at home as part-time
skilled nursing care, speech therapy, physical or occupational therapy or part-time services of home health aides.

**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.

**Hospice:** An organization which is primarily designed to provide pain relief, symptom management and supportive services for the terminally ill and their families.

**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.

**Operative and/or essential procedures** is defined as procedures performed in the Operating Room, Emergency Department, or Intensive Care Unit that were essential to the diagnoses, stabilization, or treatment of the patient’s specific injuries. Repeated diagnostic procedures (e.g., repeated CT scan) should not be recorded (record only the first procedure).

**Skilled Nursing Care:** Daily nursing and rehabilitative care that is performed only by or under the supervision of skilled professional or technical personnel. Skilled care includes administering medication, medical diagnosis and minor surgery.

**Undocumented Citizen** is defined as a national of another country who has entered or stayed in another country without permission.
Appendix 4: NTDS References
National Trauma Data Standard (NTDS) Data Dictionary

Content for the NTDS can be found at: http://www.ntdsdictionary.org/.

The following information should be reviewed before submitting data to the NTDB or Indiana Trauma Registry:

1. Appendix 1: NTDB Facility Dataset (pages A1.1 – A1.3 of the 2016 NTDS Data Dictionary)

2. Appendix 2: Edit Checks for the National Trauma Data Standard Data Elements (pages A2.2 – A2.32 of the 2016 NTDS Data Dictionary)

Appendix 5: Maps
Indiana Hospitals

Hospitals with an Emergency Department

Counties without a hospital

- Benton
- Brown
- Carroll
- Crawford
- Fountain
- Franklin
- Martin
- Newton
- Ohio
- Owen
- Parke
- Pike
- Posey
- Spencer
- Switzerland
- Union