NATIONAL TRAUMA DATA STANDARD

# Data Dictionary

## 2021 ADMISSIONS

Revised January 2021





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## INTRODUCTION

Traumatic injury, both unintentional and intentional, is the leading cause of death in the first four decades of life, according to the National Center for Health Statistics.<sup>1</sup> Trauma typically involves young adults and results in the loss of more productive work years than both cancer and heart disease combined.<sup>2</sup> Each year, more than 140,000 Americans die and approximately 80,000 are permanently disabled as a result of injury.<sup>3</sup> The loss of productivity and health care costs account for 100 billion dollars annually.<sup>4</sup>

Research provides evidence of the effectiveness of trauma and EMS systems in reducing mortality, morbidity, and lost productivity from traumatic injuries. Almost three decades of research consistently suggests that in-hospital (and post-discharge) mortality rates are reduced by 20 to 25% among severely injured patients treated in trauma centers organized into a regional or statewide trauma system.<sup>5-9</sup> Nevertheless, much of the work investigating the effectiveness of trauma system (center) development has been hampered by the lack of consistent, quality data to demonstrate differences in mortality over time or between hospitals, regions, or states.

Hospital-based trauma registries are the basis for much of the research and quality assessment work that has informed clinicians and policy makers about methods to optimize the care of injured patients. Yet, the actual data points contained in independent hospital registries are often so different in content and structure that comparison across registries is nearly impossible.<sup>10</sup> Database construction for trauma registries is often completed in isolation with no nationally recognized standard data dictionary to ensure consistency across registries. Efforts to standardize hospital registry content have been published<sup>11,12</sup>, yet studies continue to document serious variation and misclassification between hospital-based registries.<sup>13,14</sup>

Recently, federal agencies have made investments to fortify the establishment of a national trauma registry.<sup>15,16</sup> Much of this funding has focused on the National Trauma Data Standard<sup>™</sup>(NTDS), which represents a concerted and sustained effort by the American College of Surgeons Committee on Trauma (ACSCOT) to provide an extensive collection of trauma registry data provided primarily by accredited/designated trauma centers across the U.S.<sup>17</sup> Members of ACSCOT and staff associated with the NTDB have long recognized that the NTDB inherits the individual weaknesses of each contributing registry.<sup>18</sup>

During 2004 through 2006, the ACSCOT Subcommittee on Trauma Registry Programs was supported by the U.S. Health Resources and Services Administration (HRSA) to devise a uniform set of trauma registry variables and associated variable definitions. The ACSCOT Subcommittee also characterized a core set of trauma registry inclusion criteria that would maximize participation by all state, regional and local trauma registries. This data dictionary represents the culmination of this work. Institutionalizing the basic standards provided in this document will greatly increase the likelihood that a national trauma registry would provide clinical information beneficial in characterizing traumatic injury and enhancing our ability to improve trauma care in the United States.

To realize this objective, it is important that this subset of uniform registry variables are incorporated into all trauma registries, regardless of trauma center accreditation/designation (or lack thereof). Local, regional or state registries are then encouraged to provide a yearly download of these uniform variables to the NTDB for all patients satisfying the inclusion criteria described in this document. This subset of variables, for all registries, will represent the contents of the new National Trauma Data Bank (NTDB) in the future.

#### TECHNICAL NOTES REGARDING NTDS IMPLEMENTATION

The NTDS Dictionary is designed to establish a national standard for the exchange of trauma registry data, and to serve as the operational definitions for the National Trauma Data Bank (NTDB). It is expected (and encouraged) that local and state trauma registry committees will move towards extending and/or modifying their registries to adopt NTDS-based definitions. However, it is also recognized that many local and state trauma registry data sets will contain additional data points as well as additional response codes beyond those captured in NTDS. It is important to note that systems that deviate from NTDS can be fully compliant with NTDS via the development of a "mapping" process provided by their vendor which maps each variable (and response code) in the registry to the appropriate NTDS variable (and response code).

There are numerous ways in which mapping may allow variations in hospital or state data sets to conform to the NTDS data fields:

- 1. Additional response codes for a variable (for example, source of payment) may be collected, but then collapsed (i.e., mapped) into existing NTDS response codes when data are submitted to the NTDB.
- 2. A local or state registry may collect both a "patient's home city" and "patient's home ZIP code," but the NTDS requires one or the other. A mapping program may ensure only one variable is submitted to the NTDB.

In sum, the NTDS Data Dictionary provides the exact standard for submission of trauma registry data to the NTDB. This standard may be accomplished through abstraction precisely as described in this document, or through mapping provided by a vendor. If variables are mapped, trauma managers/registrars should consult with their vendor to ensure that the mapping is accurate. In addition, if variables are mapped, it is important that a registrar abstract data as described by the vendor to ensure the vendor-supplied NTDS mapping works properly to enforce the exact rules outlined in the NTDS data dictionary.

The benefits of having a national trauma registry standard that can support comparative analyses across all facilities are enormous. The combination of having the NTDS standard as well as vendor- supplied mappings (to support that standard) will allow local and state registry data sets to include individualized detail while still maintaining compatibility with the NTDS national standard.

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### NATIONAL TRAUMA DATA STANDARD (NTDS) PATIENT INCLUSION CRITERIA

**DEFINITION:** To ensure consistent data collection across States into the National Trauma Data Standard, a trauma patient is defined as a patient sustaining a traumatic injury within 14 days of initial hospital encounter and meeting the following criteria:

At least ONE of the following injury diagnostic codes defined as follows:

#### 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)
- T79.A1-T79.A9 with 7th character modifier of A ONLY (Traumatic Compartment Syndrome–initial encounter)

#### **EXCLUDING the following isolated injuries:**

#### 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-10-CM S00-S99, T07, T14, and T79.A1-T79.A9):

 Death resulting from the traumatic injury (independent of hospital admission or hospital transfer status);

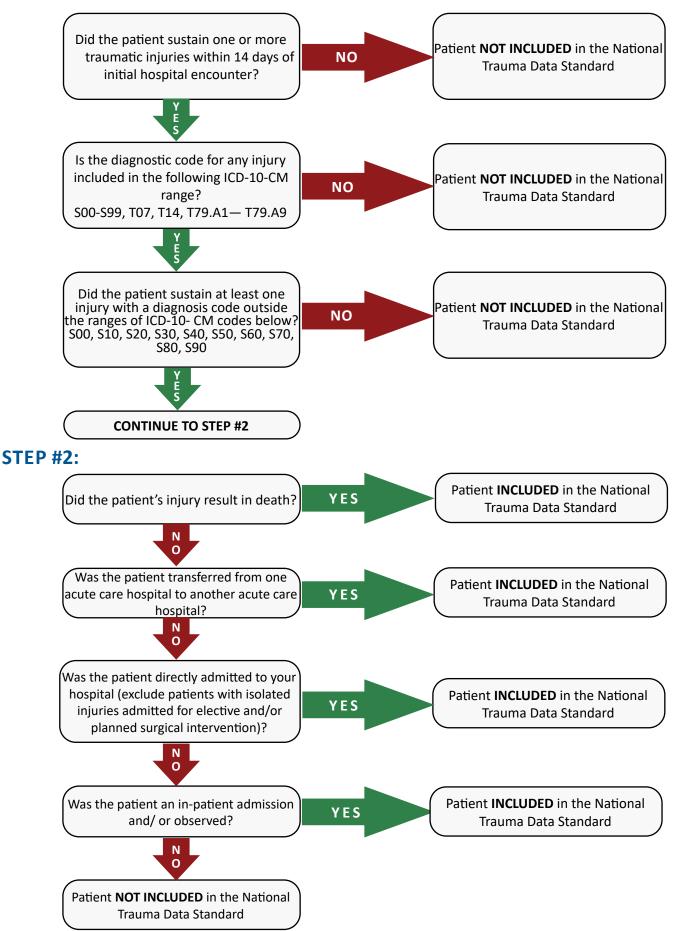
OR

- Patient transfer from one acute care hospital\* to another acute care hospital;
   OR
- Patients directly admitted to your hospital (exclude patients with isolated injuries admitted for elective and/or planned surgical intervention);
   OR
- Patients who were an in-patient admission and/or observed

\*Acute Care Hospital is defined as a hospital that provides inpatient medical care and other related services for surgery, acute medical conditions or injuries (usually for a short-term illness or condition). "CMS Data Navigator Glossary of Terms" https://www.cms.gov/Research-Statistics-Data-and systems/Research/ResearchGenInfo/Downloads/DataNav\_Glossary\_Alpha.pdf (accessed January 15, 2019).

## **NTDS PATIENT INCLUSION CRITERIA (ALGORITHM)**

### **STEP #1:**



## **COMMON NULL VALUES**

#### DEFINITION

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

#### **ELEMENT 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 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, health care provider) or no value for the element was recorded for the patient. This documents that there was an attempt to obtain information but it was unknown by all parties or the information was missing at the time of documentation. For example, injury date and time may be documented in the hospital patient care report as "Unknown." Another example, Not Known/Not Recorded 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).

#### **REFERENCES TO OTHER DATABASES**

• Compare with NHTSA V.2.10 - E00

## **DEMOGRAPHIC INFORMATION**

## PATIENT'S HOME ZIP/POSTAL CODE

#### DEFINITION

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

#### **ELEMENT VALUES**

• Relevant value for data element

#### **ADDITIONAL INFORMATION**

- Can be stored as a 5 or 9-digit code (XXXXX-XXXX) for US, or can be stored in the postal code format of the applicable country.
- May require adherence to HIPAA regulations.
- If *Patient's Home ZIP/Postal Code* is "Not Applicable," report data element: *Alternate Home Residence*.
- If Patient's Home ZIP/Postal Code is "Not Known/Not Recorded," report data elements: Patient's Home Country, Patient's Home State (US only), Patient's Home County (US only) and Patient's Home City (US only).
- If Patient's Home ZIP/Postal Code is reported, must also report Patient's Home Country.

#### **DATA SOURCE HIERARCHY GUIDE**

- 1. Face Sheet
- 2. Billing Sheet
- 3. Admission Form

Rule ID	Level	Message
0001	1	Invalid value
0002	2	Element cannot be blank
0040	1	Single Entry Max exceeded

## PATIENT'S HOME COUNTRY

#### DEFINITION

The country where the patient resides.

#### **ELEMENT VALUES**

• Relevant value for data element (two-digit alpha country code)

#### **ADDITIONAL INFORMATION**

- Values are two-character FIPS codes representing the country (e.g., US).
- If *Patient's Home Country* is not US, then the null value "Not Applicable" is reported for: *Patient's Home State, Patient's Home County, and Patient's Home City*.

#### **DATA SOURCE HIERARCHY GUIDE**

- 1. Face Sheet
- 2. Billing Sheet
- 3. Admission Form

Rule ID	Level	Message
0101	1	Invalid value
0102	2	Element cannot be blank
0104	2	Element cannot be "Not Applicable"
0105	2	Element cannot be "Not Known/Not Recorded" when <i>Patient's Home ZIP/Postal</i> <i>Code</i> is any response other than "Not Applicable" or "Not Known/Not Recorded"
0140	1	Single Entry Max exceeded

## PATIENT'S HOME STATE

#### DEFINITION

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

#### **ELEMENT VALUES**

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

#### **ADDITIONAL INFORMATION**

- Only reported when *Patient's Home ZIP/Postal Code* is "Not Known/Not Recorded" and country is US.
- Used to calculate FIPS code.
- The null value "Not Applicable" is reported if *Patient's Home ZIP/Postal Code* is reported.
- The null value "Not Applicable" is reported for non-US hospitals.

#### **DATA SOURCE HIERARCHY GUIDE**

- 1. Face Sheet
- 2. Billing Sheet
- 3. Admission Form

Rule ID	Level	Message
0201	1	Invalid value
0202	2	Element cannot be blank
0204	2	Element must be "Not Applicable" (Non-US hospitals only)
0205	2	Element must be "Not Applicable" when <i>Patient's Home ZIP/Postal Code</i> is reported
0240	1	Single Entry Max exceeded

## PATIENT'S HOME COUNTY

#### DEFINITION

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

#### **ELEMENT VALUES**

• Relevant value for data element (three-digit numeric FIPS code)

#### **ADDITIONAL INFORMATION**

- Only reported when *Patient's Home ZIP/Postal Code* is "Not Known/Not Recorded" and country is US.
- Used to calculate FIPS code.
- The null value "Not Applicable" is reported if *Patient's Home ZIP/Postal Code* is reported.
- The null value "Not Applicable" is reported for non-US hospitals.

#### **DATA SOURCE HIERARCHY GUIDE**

- 1. Face Sheet
- 2. Billing Sheet
- 3. Admission Form

Rule ID	Level	Message
0301	1	Invalid value
0302	2	Element cannot be blank
0304	2	Element must be "Not Applicable" (Non-US hospitals only)
0305	2	Element must be "Not Applicable" when <i>Patient's Home ZIP/Postal Code</i> is reported
0340	1	Single Entry Max exceeded

## PATIENT'S HOME CITY

#### DEFINITION

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

#### **ELEMENT VALUES**

• Relevant value for data element (five-digit numeric FIPS code)

#### **ADDITIONAL INFORMATION**

- Only reported when *Patient's Home ZIP/Postal Code* is "Not Known/Not Recorded" and country is USC.
- Used to calculate FIPS code.
- The null value "Not Applicable" is reported if *Patient's Home ZIP/Postal Code* is reported.
- The null value "Not Applicable" is reported for non-US hospitals

#### DATA SOURCE HIERARCHY GUIDE

- 1. Face Sheet
- 2. Billing Sheet
- 3. Admission Form

Rule ID	Level	Message
0401	1	Invalid value
0402	2	Element cannot be blank
0404	2	Element must be "Not Applicable" (Non-US hospitals only)
0405	2	Element must be "Not Applicable" when <i>Patient's Home ZIP/Postal Code</i> is reported
0440	1	Single Entry Max exceeded

Documentation of the type of patient without a home ZIP/postal Code.

#### **ELEMENT VALUES**

1. Homeless2.Undocumented Citizen3.Migrant Worker

#### **ADDITIONAL INFORMATION**

- Only reported when *Patient's Home ZIP/Postal 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.
- The null value "Not Applicable" is reported if *Patient's Home ZIP/Postal Code* is reported.
- Report all that apply

#### **DATA SOURCE HIERARCHY GUIDE**

- 1. Face Sheet
- 2. Billing Sheet
- 3. Admission Form

Rule ID	Level	Message
0501	1	Value is not a valid menu option
0502	2	Element cannot be blank
0503	2	Element cannot be "Not Applicable" or "Not Known/Not Recorded" along with any other value
0540	1	Multiple Entry Max exceeded

## **DATE OF BIRTH**

#### DEFINITION

The patient's date of birth.

#### **ELEMENT VALUES**

Relevant value for data element

#### **ADDITIONAL INFORMATION**

- Reported as YYYY-MM-DD.
- If Date of Birth is "Not Known/Not Recorded," report data elements: Age and Age Units.
- If *Date of Birth* is the same as the *Injury Incident Date*, then the *Age* and *Age Units* data elements must be reported.

#### **DATA SOURCE HIERARCHY GUIDE**

- 1. Face Sheet
- 2. Billing Sheet
- 3. Admission Form
- 4. Triage/Trauma Flow Sheet
- 5. EMS Run Report

Rule ID	Level	Message
0601	1	Invalid value
0602	1	Date out of range
0603	2	Element cannot be blank
0612	2	Date of Birth + 120 years must be less than <i>Injury Incident Date</i>
0613	2	Element cannot be "Not Applicable"
0640	1	Single Entry Max exceeded

## AGE

#### DEFINITION

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

#### **ELEMENT VALUE**

• Relevant value for data element

#### **ADDITIONAL INFORMATION**

- If Date of Birth is "Not Known/Not Recorded," report data elements: Age and Age Units.
- If *Date of Birth* is the same as the *ED/Hospital Arrival Date*, then the *Age* and *Age Units* data elements must be reported.
- Must also report data element: Age Units.
- The null value "Not Applicable" is reported if *Date of Birth* is reported.

#### DATA SOURCE HIERARCHY GUIDE

- 1. Face Sheet
- 2. Billing Sheet
- 3. Admission Form
- 4. Triage/Trauma Flow Sheet
- 5. EMS Run Report

Rule ID	Level	Message
0701	1	Age is outside the valid range of 0 - 120
0703	2	Element cannot be blank
0705	3	Age is greater than expected for the <i>Age Units</i> specified. Age should not exceed 60 minutes, 24 hours, 30 days, 24 months, or 120 years. Please verify this is correct.
0708	2	Element must be "Not Known/Not Recorded" when <i>Age Units</i> is "Not Known/ Not Recorded"
0709	2	Element must be and can only be "Not Applicable" if <i>Date of Birth</i> is reported unless <i>Date of Birth</i> is the same as <i>ED/Hospital Arrival Date</i>
0740	1	Single Entry Max exceeded

## AGE UNITS

4. Years

5. Minutes

6. Weeks

#### DEFINITION

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

#### **ELEMENT VALUES**

- 1. Hours
- 2. Days
- 3. Months

#### **ADDITIONAL INFORMATION**

- If Date of Birth is "Not Known/Not Recorded," report data elements: Age and Age Units
- If *Date of Birth* is the same as the *ED/Hospital Arrival Date*, then the *Age* and *Age Units* data elements must be reported.
- Must also report data element: Age.
- The null value "Not Applicable" is reported if *Date of Birth* is reported.

#### **DATA SOURCE HIERARCHY GUIDE**

- 1. Face Sheet
- 2. Billing Sheet
- 3. Admission Form
- 4. Triage/Trauma Flow Sheet
- 5. EMS Run Report

Rule ID	Level	Message
0801	1	Value is not a valid menu option
0803	2	Element cannot be blank
0806	2	Element must be "Not Known/Not Recorded" when <i>Age</i> is "Not Known/Not Recorded"
0810	2	Element must be and can only be "Not Applicable" if Age is "Not Applicable"
0840	1	Single Entry Max exceeded

4. American Indian

6. White

5. Black or African American

#### DEFINITION

The patient's race.

#### **ELEMENT VALUES**

- 1. Asian
- 2. Native Hawaiian or Other Pacific Islander
- 3. Other Race

## Additional Information

- Patient race should be based upon self-report or identified by a family member.
- Based on the 2010 US Census Bureau.
- Report all that apply.

#### **DATA SOURCE HIERARCHY GUIDE**

- 1. Face Sheet
- 2. Billing Sheet
- 3. Admission Form
- 4. Triage/Trauma Flow Sheet
- 5. EMS Run Report
- 6. History & Physical

Rule ID	Level	Message
0901	1	Value is not a valid menu option
0902	2	Element cannot be blank
0903	2	Element cannot be "Not Applicable" (excluding CA hospitals)
0905	2	Element cannot be "Not Applicable" or "Not Known/Not Recorded" along with any other value
0950	1	Multiple Entry Max exceeded

## **ETHNICITY**

#### DEFINITION

The patient's ethnicity.

#### **ELEMENT 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.
- Based on the 2010 US Census Bureau.

#### **DATA SOURCE HIERARCHY GUIDE**

- 1. Face Sheet
- 2. Billing Sheet
- 3. Admission Form
- 4. Triage/Trauma Flow Sheet
- 5. History & Physical
- 6. EMS Run Report

Rule ID	Level	Message
1001	1	Value is not a valid menu option
1002	2	Element cannot be blank
1003	2	Element cannot be "Not Applicable" (excluding CA hospitals)
1040	1	Single Entry Max exceeded



The patient's sex.

#### **ELEMENT VALUES**

1. Male

2. Female

3. Non-binary

#### **ADDITIONAL INFORMATION**

• Patients who have undergone a surgical and/or hormonal sex reassignment should be reported using their current assignment.

#### **DATA SOURCE HIERARCHY GUIDE**

- 1. Face Sheet
- 2. Billing Sheet
- 3. Admission Form
- 4. Triage/Trauma Flow Sheet
- 5. EMS Run Report
- 6. History & Physical

Rule ID	Level	Message
1101	1	Value is not a valid menu option
1102	2	Element cannot be blank
1103	2	Element cannot be "Not Applicable"
1140	1	Single Entry Max exceeded

## **INJURY INFORMATION**

The date the injury occurred.

#### **ELEMENT VALUES**

• Relevant value for data element

#### **ADDITIONAL INFORMATION**

- Reported as YYYY-MM-DD.
- Estimates of date of injury should be based upon report by patient, witness, family, or healthcare provider. Other proxy measures (e.g., 911 call times) should not be reported.

#### **DATA SOURCE HIERARCHY GUIDE**

- 1. EMS Run Report
- 2. Triage/Trauma Flow Sheet
- 3. History & Physical
- 4. Face Sheet

Rule ID	Level	Message
1201	1	Date is not valid
1202	1	Date out of range
1203	2	Element cannot be blank
1204	2	Injury Incident Date is earlier than Date of Birth
1211	2	Element cannot be "Not Applicable"
1212	3	Injury Incident Date is greater than 14 days earlier than ED/Hospital Arrival Date
1240	1	Single Entry Max exceeded

The time the injury occurred.

#### **ELEMENT VALUES**

• Relevant value for data element

#### **ADDITIONAL INFORMATION**

- Reported as HHMM 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 reported.

#### **DATA SOURCE HIERARCHY GUIDE**

- 1. EMS Run Report
- 2. Triage/Trauma Flow Sheet
- 3. History & Physical
- 4. Face Sheet

Rule ID	Level	Message
1301	1	Time is not valid
1302	1	Time out of range
1303	2	Element cannot be blank
1310	2	Element cannot be "Not Applicable"
1340	1	Single Entry Max exceeded

## WORK-RELATED

#### DEFINITION

Indication of whether the injury occurred during paid employment.

#### **ELEMENT VALUES**

1. Yes

2. No

#### **ADDITIONAL INFORMATION**

• If work-related, two additional data elements must be reported: *Patient's Occupational Industry* and *Patient's Occupation*.

#### **DATA SOURCE HIERARCHY GUIDE**

- 1. EMS Run Report
- 2. Triage/Trauma Flow Sheet
- 3. History & Physical
- 4. Face Sheet
- 5. Billing Sheet

Rule ID	Level	Message
1401	1	Value is not a valid menu option
1402	2	Element cannot be blank
1407	2	Element cannot be "Not Applicable"
1440	1	Single Entry Max exceeded

The occupational industry associated with the patient's work environment.

#### **ELEMENT 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, must also report *Patient's Occupation*.
- Based upon US Bureau of Labor Statistics Industry Classification.
- The null value "Not Applicable" is reported if Work-Related is Element Value "2. No".

#### **DATA SOURCE HIERARCHY GUIDE**

- 1. Billing Sheet
- 2. Face Sheet
- 3. Case Management/Social Services Notes
- 4. EMS Run Report
- 5. Nursing Notes/Flow Sheet

Rule ID	Level	Message
1501	1	Value is not a valid menu option
1504	2	Element cannot be blank
1505	2	If Work-Related is Element Value "1. Yes", Patient's Occupational Industry cannot be "Not Applicable"
1506	2	"Not Applicable" must be reported if <i>Work-Related</i> is <i>Element Value</i> "2. No"
1540	1	Single Entry Max exceeded

The occupation of the patient.

#### **ELEMENT VALUES**

- 1. Business and Financial Operations Occupations
- 2. Architecture and Engineering Occupations
- 3. Community and Social Services Occupations
- 4. Education, Training, and Library Occupations
- 5. Healthcare Practitioners and Technical Occupations
- 6. Protective Service Occupations
- 7. Building and Grounds Cleaning and Maintenance
- 8. Sales and Related Occupations
- 9. Farming, Fishing, and Forestry Occupations
- 10. Installation, Maintenance, and Repair Occupations
- 11. Transportation and Material Moving Occupations
- 12. Management Occupations

- 13. Computer and Mathematical Occupations
- 14. Life, Physical, and Social Science Occupations
- 15. Legal Occupations
- 16. Arts, Design, Entertainment, Sports, and Media
- 17. Healthcare Support Occupations
- 18. Food Preparation and Serving Related
- 19. Personal Care and Service Occupations
- 20. Office and Administrative Support Occupations
- 21. Construction and Extraction Occupations
- 22. Production Occupations
- 23. Military Specific Occupations

#### **Additional Information**

- Only reported if injury is work-related.
- If work-related, must also report Patient's Occupational Industry.
- Based upon 1999 US Bureau of Labor Statistics Standard Occupational Classification (SOC).
- The null value "Not Applicable" is reported if *Work-Related* is *Element Value* "2. No".

#### **DATA SOURCE HIERARCHY GUIDE**

- 1. Billing Sheet
- 2. Face Sheet
- 3. Case Management/Social Services Notes
- 4. EMS Run Report
- 5. Nursing Notes/Flow Sheet

/ 1000 01/11			
Rule ID	Level	Message	
1601	1	Value is not a valid menu option	
1604	2	Element cannot be blank	
1605	2	If <i>Work-Related</i> is <i>Element Valu</i> e "1. Yes", <i>Patient's Occupation</i> cannot be "Not Applicable"	
1606	2	"Not Applicable" must be reported if <i>Work-Related</i> is <i>Element Value</i> "2. No"	
1640	1	Single Entry Max exceeded	

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

#### **ELEMENT VALUES**

• Relevant ICD-10-CM or ICD-10 CA code value for injury event

#### Additional Information

- The primary external cause code should describe the main reason a patient is admitted to the hospital.
- ICD-10-CM or ICD-10-CA codes are accepted for this data element. Activity codes are not reported under the NTDS and should not be reported for this data element.
- Multiple Cause Coding Hierarchy: If two or more events cause separate injuries, an external cause code should be reported for each cause. The first-listed external cause code will be selected in the following order:
  - External cause codes for child and adult abuse take priority over all other external cause codes.
  - External cause codes for terrorism events take priority over all other external cause codes except child and adult abuse.
  - External cause codes for cataclysmic events take priority over all other external cause codes except child and adult abuse, and terrorism.
  - External cause codes for transport accidents take priority over all other external cause codes except cataclysmic events, and child and adult abuse, and terrorism.
  - The first listed external cause code should correspond to the cause of the most serious diagnosis due to an assault, accident or self-harm, following the order of hierarchy listed above.

#### **DATA SOURCE HIERARCHY GUIDE**

- 1. EMS Run Report
- 2. Triage/Trauma Flow Sheet
- 3. Nursing Notes/Flow Sheet
- 4. History & Physical
- 5. Progress Notes

#### **Associated Edit Checks**

Rule ID	Level	Message
8901	1	E-Code is not a valid ICD-10-CM code (ICD-10-CM only)
8902	2	Element cannot be blank
8904	2	Must not be Y92.X/Y92.XX/Y92.XXX (where X is A-Z or 0-9) (ICD-10-CM only)
8905	3	ICD-10 External Cause Code must not be Y93.X/Y93.XX (where X is A-Z or 0-9) (ICD-10 CM only)
8906	1	E-Code is not a valid ICD-10-CA code (ICD-10-CA only)
8907	2	Element cannot be "Not Applicable"
8940	1	Single Entry Max exceeded

#### **INJURY INFORMATION**

## **ICD-10 PLACE OF OCCURRENCE EXTERNAL CAUSE CODE**

#### DEFINITION

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

#### **ELEMENT VALUES**

• Relevant ICD-10-CM or ICD-10-CA code value for injury event

#### **ADDITIONAL INFORMATION**

 Only ICD-10-CM or ICD-10-CA codes are accepted for ICD-10 Place of Occurrence External Cause Code.

#### **DATA SOURCE HIERARCHY GUIDE**

- 1. EMS Run Report
- 2. Triage/Trauma Flow Sheet
- 3. Nursing Notes/Flow Sheet
- 4. History & Physical
- 5. Progress Notes

Rule ID	Level	Message
9001	1	Invalid value (ICD-10-CM only)
9002	2	Element cannot be blank
9003	3	Place of Injury code must be Y92.X/Y92.XX/Y92.XXX (where X is A-Z [excluding I,O] or 0-9) (ICD-10-CM only)
9004	1	Invalid value (ICD-10-CA only)
9005	3	Place of Injury code must be U98X (where X is 0-9) (ICD-10-CA only)
9006	2	Element cannot be "Not Applicable"
9040	1	Single Entry Max exceeded

Additional external cause code used in conjunction with the *ICD-10 Primary External Cause Code* if multiple external cause codes are required to describe the injury event.

#### **ELEMENT VALUES**

• Relevant ICD 10-CM or ICD-10-CA code value for injury event

#### **ADDITIONAL INFORMATION**

- Only ICD-10-CM or ICD-10-CA codes will be accepted for *ICD-10 Additional External Cause Code*.
- Activity codes are not reported under the NTDS and should not be reported for this data element.
- The null value "Not Applicable" is reported if no additional external cause codes are reported.
- Report all that apply (maximum 2)
- Multiple Cause Coding Hierarchy: If two or more events cause separate injuries, an
  external cause code should be assigned for each cause. The first-listed external cause code
  will be selected in the following order:
  - External cause codes for child and adult abuse take priority over all other external cause codes.
  - External cause codes for terrorism events take priority over all other external cause codes except child and adult abuse.
  - External cause codes for cataclysmic events take priority over all other external cause codes except child and adult abuse, and terrorism.
  - External cause codes for transport accidents take priority over all other external cause codes except cataclysmic events, and child and adult abuse, and terrorism.
  - The first listed external cause code should correspond to the cause of the most serious diagnosis due to an assault, accident or self-harm, following the order of hierarchy listed above.

#### **DATA SOURCE HIERARCHY GUIDE**

- 1. EMS Run Report
- 2. Triage/Trauma Flow Sheet
- 3. Nursing Notes/Flow Sheet
- 4. History & Physical
- 5. Progress Notes

#### **ASSOCIATED EDIT CHECKS**

Rule ID	Level	Message
9101	1	E-Code is not a valid ICD-10-CM code (ICD-10-CM only)
9102	3	Additional External Cause Code ICD-10 must not be equal to Primary External
9103	2	Element cannot be blank
9104	1	E-Code is not a valid ICD-10-CA code (ICD-10-CA only)
9105	2	ICD-10-CM T74 and T76 codes cannot be submitted as Additional External Cause Codes
9106	2	Element cannot be "Not Applicable" or "Not Known/Not Recorded" along with any value
9140	1	Multiple Entry Max exceeded

#### **INJURY INFORMATION**

The ZIP/Postal code of the incident location.

#### **ELEMENT VALUES**

• Relevant value for data element

#### **ADDITIONAL INFORMATION**

- Can be stored as a 5 or 9-digit code (XXXXX-XXXX) for US and CA or can be stored in the postal code format of the applicable country.
- If "Not Known/Not Recorded," report data elements: *Incident Country, Incident State* (US Only), *Incident County* (US Only) and *Incident City* (US Only).
- May require adherence to HIPAA regulations.
- If *Incident Location ZIP/Postal Code* is reported, then must report *Incident Country*.

#### **DATA SOURCE HIERARCHY GUIDE**

- 1. EMS Run Report
- 2. Triage/Trauma Flow Sheet

Rule ID	Level	Message
2001	1	Invalid value
2002	2	Element cannot be blank
2006	2	Element cannot be "Not Applicable"
2040	1	Single entry max exceeded

## **INCIDENT COUNTRY**

#### DEFINITION

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

#### **ELEMENT VALUES**

• Relevant value for data element (two-digit alpha country code)

#### **ADDITIONAL INFORMATION**

- Values are two-character FIPS codes representing the country (e.g., US).
- If *Incident Country* is not US, then the null value "Not Applicable" is reported for: *Incident State, Incident County,* and *Incident City*.

#### **DATA SOURCE HIERARCHY GUIDE**

- 1. EMS Run Report
- 2. Triage/Trauma Flow Sheet

Rule ID	Level	Message
2101	1	Invalid value
2102	2	Element cannot be blank
2104	2	Element cannot be "Not Applicable"
2105	2	Element cannot be "Not Known/Not Recorded" when <i>Incident Location</i> <i>ZIP/Postal Code</i> is any response other than "Not Known/Not Recorded"
2140	1	Single Entry Max exceeded

## **INCIDENT STATE**

#### DEFINITION

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

#### **ELEMENT VALUES**

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

#### **ADDITIONAL INFORMATION**

- Only reported when *Incident Location ZIP/Postal Code* is "Not Known/Not Recorded," and country is US.
- Used to calculate FIPS code.
- The null value "Not Applicable" is reported if *Incident Location ZIP/Postal Code* is reported.
- If Incident Country is not US, report the null value "Not Applicable."

#### **DATA SOURCE HIERARCHY GUIDE**

- 1. EMS Run Report
- 2. Triage/Trauma Flow Sheet

#### **Associated Edit Checks**

Rule ID	Level	Message
2201	1	Invalid value
2203	2	Element cannot be blank
2204	2	Element must be "Not Applicable" (Non-US hospitals)
2205	2	Element must be "Not Applicable" when <i>Incident Location ZIP/Postal Code</i> is reported
2240	1	Single Entry Max exceeded

## **INCIDENT COUNTY**

#### DEFINITION

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

#### **ELEMENT VALUES**

• Relevant value for data element (three-digit numeric FIPS code)

#### Additional Information

- Only reported when *Incident Location ZIP/Postal Code* is "Not Known/Not Recorded," and country is US.
- Used to calculate FIPS code.
- The null value "Not Applicable" is reported if *Incident Location ZIP/Postal Code* is reported.
- If Incident Country is not US, report the null value "Not Applicable."

#### **DATA SOURCE HIERARCHY GUIDE**

- 1. EMS Run Report
- 2. Triage/Trauma Flow Sheet

Rule ID	Level	Message
2301	1	Invalid value (US only)
2303	2	Element cannot be blank
2304	2	Element must be "Not Applicable" (Non-US hospitals)
2305	2	Element must be "Not Applicable" when <i>Incident Location ZIP/Postal code</i> is reported
2340	1	Single Entry Max exceeded

## INCIDENT CITY

#### DEFINITION

The city or township where the patient was found or to which the unit responded.

#### **ELEMENT VALUES**

• Relevant value for data element (five-digit numeric FIPS code)

#### **ADDITIONAL INFORMATION**

- Only reported when *Incident Location ZIP/Postal Code* is "Not Known/Not Recorded," and country is US.
- Used to calculate FIPS code.
- If incident location resides outside of formal city boundaries, report nearest city/town.
- The null value "Not Applicable" is reported if *Incident Location ZIP/Postal Code* is reported.
- If Incident Country is not US, report the null value "Not Applicable."

#### **DATA SOURCE HIERARCHY GUIDE**

- 1. EMS Run Report
- 2. Triage/Trauma Flow Sheet

Rule ID	Level	Message
2401	1	Invalid value
2403	2	Element cannot be blank
2404	2	Element must be "Not Applicable" (Non-US hospitals)
2405	2	Element must be "Not Applicable" when <i>Incident Location ZIP/Postal Code</i> is reported
2440	1	Single Entry Max exceeded

## **PROTECTIVE DEVICES**

#### DEFINITION

Protective devices (safety equipment) in use or worn by the patient at the time of the injury.

#### **ELEMENT VALUES**

- 1. None
- 2. Lap Belt
- 3. Personal Floatation Device
- 4. Protective Non-Clothing Gear (e.g., shin guard)
- 5. Eye Protection
- 6. Child Restraint (booster seat or child car seat)

- 7. Helmet (e.g., bicycle, skiing, motorcycle)
- 8. Airbag Present
- 9. Protective Clothing (e.g., padded leather pants)
- 10. Shoulder Belt
- 11. Other

## **ADDITIONAL INFORMATION**

- Report all that apply.
- If "Child Restraint" is present, must report data element *Child Specific Restraint*.
- If "Airbag" is present, must report data element *Airbag Deployment*.
- Evidence of the use of safety equipment may be reported or observed.
- Lap Belt should be reported to include those patients that are restrained but not further specified.
- If chart indicates "3-point-restraint," report Element Values "2. Lap Belt" and "10. Shoulder Belt."
- If documented that a "Child Restraint (booster seat or child/infant car seat)" was used or worn, but not properly fastened, either on the child or in the car, report *Element Value* "1. None."

## **DATA SOURCE HIERARCHY GUIDE**

- 1. EMS Run Report
- 2. Triage/Trauma Flow Sheet
- 3. Nursing Notes/Flow Sheet
- 4. History & Physical

Rule ID	Level	Message
2501	1	Value is not a valid menu option
2502	2	Element cannot be blank
2507	2	Element cannot be "Not Applicable"
2508	2	Element cannot be "Not Known/Not Recorded" or <i>Element Value</i> "1. None" along with <i>Element Values</i> 2, 3, 4, 5, 6, 7, 8, 9, 10, and/ or 11
2550	1	Multiple Entry Max exceeded

## **CHILD SPECIFIC RESTRAINT**

#### DEFINITION

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

#### **ELEMENT VALUES**

- 1. Child Car Seat 2. Infant Car Seat
- 3. Child Booster Seat

## **ADDITIONAL INFORMATION**

- Evidence of the use of a child restraint may be reported or observed.
- Only reported when Protective Devices include "6. Child Restraint (booster seat or child car seat)."
- The null value "Not Applicable" must be reported if *Element Value* "6. Child Restraint" is NOT reported for *Protective Devices*.

#### **DATA SOURCE HIERARCHY GUIDE**

- 1. EMS Run Report
- 2. Triage/Trauma Flow Sheet
- 3. Nursing Notes/Flow Sheet
- 4. History & Physical

Rule ID	Level	Message
2601	1	Value is not a valid menu option
2603	2	Element cannot be blank
2604	2	Element cannot be "Not Applicable" when <i>Protective Devices</i> is "6. Child Restraint"
2640	1	Single Entry Max exceeded

## **AIRBAG DEPLOYMENT**

#### DEFINITION

Indication of airbag deployment during a motor vehicle crash.

#### **ELEMENT VALUES**

- 1. Airbag Not Deployed
- 2. Airbag Deployed Front

- 3. Airbag Deployed Side
- 4. Airbag Deployed Other (knee, airbelt, curtain, etc.)

## **ADDITIONAL INFORMATION**

- Report all that apply.
- Evidence of airbag deployment may be reported or observed.
- Only report when Protective Devices include "8. Airbag Present."
- Airbag Deployed Front should be reported for patients with documented airbag deployments but are not further specified.
- The null value "Not Applicable" must be reported if *Element Value* "8. Airbag Present" is NOT reported for *Protective Devices*.

## **DATA SOURCE HIERARCHY GUIDE**

- 1. EMS Run Report
- 2. Triage/Trauma Flow Sheet
- 3. Nursing Notes/Flow Sheet
- 4. History & Physical

Rule ID	Level	Message
2701	1	Value is not a valid menu option
2703	2	Element cannot be blank
2704	2	Element cannot be "Not Applicable" when <i>Protective Devices</i> is "8. Airbag Present"
2705	2	Element cannot be "Not Applicable" or "Not Known/Not Recorded" along with any other value
2750	1	Multiple Entry Max exceeded

# **PRE-HOSPITAL INFORMATION**

## **TRANSPORT MODE**

#### DEFINITION

The mode of transport delivering the patient to your hospital.

#### **ELEMENT VALUES**

- 1. Ground Ambulance
- 2. Helicopter Ambulance
- 3. Fixed-wing Ambulance

- 4. Private/Public Vehicle/Walk-in
- 5. Police
- 6. Other

## **ADDITIONAL INFORMATION**

#### **DATA SOURCE HIERARCHY GUIDE**

1. EMS Run Report

Rule ID	Level	Message
3401	1	Value is not a valid menu option
3402	2	Element cannot be blank
3404	2	Element cannot be "Not Applicable"
3440	1	Single Entry Max exceeded

## **OTHER TRANSPORT MODE**

#### DEFINITION

All other modes of transport used during patient care event (prior to arrival at your hospital), except the mode delivering the patient to the hospital.

#### **ELEMENT 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 reported to indicate that a patient had a single mode of transport.
- Report all that apply with a maximum of 5.

#### **DATA SOURCE HIERARCHY GUIDE**

1. EMS Run Report

Rule ID	Level	Message
3501	1	Value is not a valid menu option
3502	2	Element cannot be blank
3503	2	Element cannot be "Not Applicable" or "Not Known/Not Recorded" along with any other value
3550	1	Multiple Entry Max exceeded

The patient's universally unique identifier (UUID) as assigned by the emergency medical service (EMS) agency transporting the patient from the scene of injury to your hospital.

## **ELEMENT VALUES**

- Relevant value for data element
- Must be represented in canonical form, matching the following regular expression: [a-fA-F0-9]{8}-[a-fA-F0-9]{4}-[1-5][a-fA-F0-9]{3}-[89abAB][a-fA-F0-9]{3}-[a-fA-F0-9]{12}

## **ADDITIONAL INFORMATION**

- A sample UUID is: e48cd734-01cc-4da4-ae6a-915b0b1290f6
- Automated abstraction technology provided by registry product providers/vendors must be used for this data element. In the absence of automated technology, report the null value "Not Known/Not Recorded."
- Consistent with NEMSIS v3.5.0.
- The null value "Not Known/Not Recorded" should be reported if the UUID is not documented on the EMS Run Report. The UUID will not be documented on EMS Run Reports until NEMSIS version 3.5.0 is released. In collaboration with NEMSIS, the ACS will communicate when NEMSIS 3.5.0 is released.
- Assigned by the transporting EMS agency in accordance with the IETF RFC 4122 standard.
- The null value "Not Applicable" must be reported for all patients where *Inter-facility Transfer* is *Element Value* "1. Yes".
- The null value "Not Applicable" must be reported for all patients where *Transport Mode* is *Element Values* "4. Private/Public Vehicle/Walk-in", "5. Police", "6. Other" or if patient is not transported from the scene of injury by EMS.
- For patients with multiple modes of transport from the scene of injury, report the UUID assigned by the EMS agency that delivered the patient to your hospital.

## **DATA SOURCE HIERARCHY GUIDE**

1. EMS Run Report

Rule ID	Level	Message
9901	1	Invalid value
9902	2	Element cannot be blank
9903	2	Element must be and can only be "Not Applicable" when <i>Inter-Facility Transfer</i> is <i>Element Value</i> "1" or <i>Transport Mode</i> is <i>Element Values</i> "4", "5", or" 6"
9940	1	Single Entry Max exceeded

## **INTER-FACILITY TRANSFER**

#### DEFINITION

Was the patient transferred to your facility from another acute care facility?

#### **ELEMENT VALUES**

1. Yes

2. No

#### **ADDITIONAL INFORMATION**

- Patients transferred from a private doctor's office or stand-alone ambulatory surgery center are not considered inter-facility transfers.
- Outlying facilities purporting to provide emergency care services or utilized to stabilize a patient are considered acute care facilities.

#### **DATA SOURCE HIERARCHY GUIDE**

- 1. EMS Run Report
- 2. Triage/Trauma Flow Sheet
- 3. History & Physical

Rule ID	Level	Message
4401	2	Element cannot be blank
4402	1	Value is not a valid menu option
4405	2	Element cannot be "Not Applicable"
4440	1	Single Entry Max exceeded

## **PRE-HOSPITAL CARDIAC ARREST**

#### DEFINITION

Indication of whether patient experienced cardiac arrest prior to ED/Hospital arrival.

#### **ELEMENT VALUES**

1. Yes

2. No

## **ADDITIONAL INFORMATION**

- A patient who experienced a sudden cessation of cardiac activity. The patient was unresponsive with no normal breathing and no signs of circulation.
- The event must have occurred outside of the index hospital. Pre-hospital cardiac arrest could occur at a transferring institution.
- Any component of basic and/or advanced cardiac life support must have been initiated.

## **DATA SOURCE HIERARCHY GUIDE**

- 1. EMS Run Report
- 2. Nursing Notes/Flow Sheet
- 3. History & Physical
- 4. Transfer Notes

#### **Associated Edit Checks**

Rule ID	Level	Message
9701	1	Value is not a valid menu option
9702	2	Element cannot be blank
9703	2	Element cannot be "Not Applicable"
9740	1	Single Entry Max exceeded

## **HIGHEST ACTIVATION**

#### DEFINITION

Patient received the highest level of trauma activation at your hospital.

#### **ELEMENT VALUES**

1. Yes

2. No

## **ADDITIONAL INFORMATION**

- Highest level of activation is defined by your hospital's criteria.
- INCLUDE: patients who received the highest level of trauma activation initiated by emergency medical services (EMS) or by emergency department (ED) personnel at your hospital.
- INCLUDE: patients who received the highest level of trauma activation initiated by emergency medical services (EMS) or by emergency department (ED) personnel at your hospital and were downgraded after arrival to your center.
- INCLUDE: patients who received a lower level of trauma activation initiated by emergency medical services (EMS) or by emergency department (ED) personnel at your hospital and were upgraded to the highest level of trauma activation.
- EXCLUDE: patients who received the highest level of trauma activation after emergency department (ED) discharge.

## **DATA SOURCE HIERARCHY GUIDE**

- 1. Triage/Trauma Flow Sheet
- 2. ED Record
- 3. History & Physical
- 4. Physician Notes
- 5. Discharge Summary

Rule ID	Level	Message
14201	1	Value is not a valid menu option
14202	2	Element cannot be blank
14240	1	Single Entry Max exceeded

## TRAUMA SURGEON ARRIVAL DATE

#### DEFINITION

The date the first trauma surgeon arrived at the patient's bedside.

#### **ELEMENT VALUES**

• Relevant value for data element

#### **ADDITIONAL INFORMATION**

- Collected as YYYY-MM-DD.
- Limit reporting to the 24 hours after ED/Hospital arrival.
- The trauma surgeon leads the trauma team and is responsible for the overall care of trauma patient, including coordinating care with other specialties and maintaining continuity of care.
- The null value "Not Applicable" is reported for those patients who were not evaluated by a trauma surgeon within 24 hours of ED/Hospital arrival.
- The null value "Not Applicable" is reported if the data element *Highest Activation* is reported as *Element Value* "2. No."

## **DATA SOURCE HIERARCHY GUIDE**

- 1. Triage/Trauma Flow Sheet
- 2. History & Physical
- 3. Physician Notes
- 4. Nursing Notes

Rule ID	Level	Message
14301	1	Date is not valid
14302	1	Date out of range
14303	2	Element cannot be blank
14340	1	Single Entry Max exceeded

## TRAUMA SURGEON ARRIVAL TIME

#### DEFINITION

The time the first trauma surgeon arrived at the patient's bedside.

#### **ELEMENT VALUES**

• Relevant value for data element

## **ADDITIONAL INFORMATION**

- Collected as HHMM military time.
- Limit reporting to the 24 hours after ED/Hospital arrival.
- The trauma surgeon leads the trauma team and is responsible for the overall care of trauma patient, including coordinating care with other specialties and maintaining continuity of care.
- The null value "Not Applicable" is reported for those patients who were not evaluated by a trauma surgeon within 24 hours of ED/Hospital arrival.
- The null value "Not Applicable" is reported if the data element *Highest Activation* is reported as *Element Value* "2. No."

## **DATA SOURCE HIERARCHY GUIDE**

- 1. Triage/Trauma Flow Sheet
- 2. History & Physical
- 3. Physician Notes
- 4. Nursing Notes

Rule ID	Level	Message
14401	1	Time is not valid
14402	1	Time out of range
14403	2	Element cannot be blank
14440	1	Single Entry Max exceeded

## **ED/HOSPITAL ARRIVAL DATE**

#### DEFINITION

The date the patient arrived to the ED/Hospital.

#### **ELEMENT VALUES**

• Relevant value for data element

#### **ADDITIONAL INFORMATION**

- If the patient was brought to the ED, report date patient arrived at ED. If patient was directly admitted to the hospital, report date patient was admitted to the hospital.
- Reported as YYYY-MM-DD.

## DATA SOURCE HIERARCHY GUIDE

- 1. Triage/Trauma Flow Sheet
- 2. ED Record
- 3. Face Sheet
- 4. Billing Sheet
- 5. Discharge Summary

Rule ID	Level	Message
4501	1	Date is not valid
4502	1	Date out of range
4503	2	Element cannot be blank
4505	2	Element cannot be "Not Known/Not Recorded"
4511	3	ED/Hospital Arrival Date is earlier than Date of Birth
4513	3	ED/Hospital Arrival Date occurs more than 14 days after Injury Incident Date
4515	2	Element cannot be "Not Applicable"
4516	3	ED/Hospital Arrival Date is earlier than Injury Incident Date
4540	1	Single Entry Max exceeded

## **ED/HOSPITAL ARRIVAL TIME**

#### DEFINITION

The time the patient arrived to the ED/Hospital.

#### **ELEMENT VALUES**

• Relevant value for data element

#### **ADDITIONAL INFORMATION**

- If the patient was brought to the ED, report time patient arrived at ED. If patient was directly admitted to the hospital, report time patient was admitted to the hospital.
- Reported as HHMM military time.

## **DATA SOURCE HIERARCHY GUIDE**

- 1. Triage/Trauma Flow Sheet
- 2. ED Record
- 3. Face Sheet
- 4. Billing Sheet
- 5. Discharge Summary

Rule ID	Level	Message
4601	1	Time is not valid
4602	1	Time out of range
4603	2	Element cannot be blank
4609	2	Element cannot be "Not Applicable"
4610	3	ED/Hospital Arrival Time is earlier than Injury Incident Time
4640	1	Single Entry Max exceeded

First recorded systolic blood pressure in the ED/Hospital within 30 minutes or less of ED/Hospital arrival.

## **ELEMENT VALUES**

• Relevant value for data element

## **ADDITIONAL INFORMATION**

- Please note that first recorded hospital vitals do not need to be from the same assessment.
- Measurement reported 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.

## **DATA SOURCE HIERARCHY GUIDE**

- 1. Triage/Trauma/Hospital Flow Sheet
- 2. Nurse Notes/Flow Sheet
- 3. Physician Notes
- 4. History & Physical

Rule ID	Level	Message
4701	1	Invalid value
4702	2	Element cannot be blank
4704	3	The value is above 220
4705	2	Element cannot be "Not Applicable"
4706	2	The value submitted falls outside the valid range of 0-380
4707	3	The value is below 30
4740	1	Single Entry Max exceeded

## **INITIAL ED/HOSPITAL PULSE RATE**

#### DEFINITION

First recorded pulse in the ED/Hospital (palpated or auscultated) within 30 minutes or less of ED/ Hospital arrival (expressed as a number per minute).

## **ELEMENT VALUES**

• Relevant value for data element

#### **ADDITIONAL INFORMATION**

- Please note that first recorded hospital vitals do not need to be from the same assessment.
- Measurement reported 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.

## **DATA SOURCE HIERARCHY GUIDE**

- 1. Triage/Trauma/Hospital Flow Sheet
- 2. Nurses Notes/Flow Sheet

Rule ID	Level	Message		
4801	1	Invalid value		
4802	2	Element cannot be blank		
4804	3	The value is above 220		
4805	2	Element cannot be "Not Applicable"		
4806	2	The value submitted falls outside the valid range of 0-300		
4807	3	The value is below 30		
4840	1	Single Entry Max exceeded		

## **INITIAL ED/HOSPITAL TEMPERATURE**

#### DEFINITION

First recorded temperature (in degrees Celsius [centigrade]) in the ED/Hospital within 30 minutes or less of ED/Hospital arrival.

#### **ELEMENT VALUES**

• Relevant value for data element

#### **ADDITIONAL INFORMATION**

• Please note that first recorded hospital vitals do not need to be from the same assessment.

#### **DATA SOURCE HIERARCHY GUIDE**

- 1. Triage/Trauma/Hospital Flow Sheet
- 2. Nurses Notes/Flow Sheet

Rule ID	Level	Message
4901	1	Invalid value
4902	2	Element cannot be blank
4903	3	The value is above 42.0
4904	2	Element cannot be "Not Applicable"
4905	2	The value submitted falls outside the valid range of 10.0-45.0
4906	3	The value is below 20.0
4940	1	Single Entry Max exceeded

## **INITIAL ED/HOSPITAL RESPIRATORY RATE**

#### DEFINITION

First recorded respiratory rate in the ED/Hospital within 30 minutes or less of ED/Hospital arrival (expressed as a number per minute).

#### **ELEMENT VALUES**

• Relevant value for data element

#### **ADDITIONAL INFORMATION**

- If reported, report additional data element: Initial ED/Hospital Respiratory Assistance.
- Please note that first recorded hospital vitals do not need to be from the same assessment.

## DATA SOURCE HIERARCHY GUIDE

- 1. Triage/Trauma/Hospital Flow Sheet
- 2. Nurses Notes/Flow Sheet
- 3. Respiratory Therapy Notes/Flow Sheet

Rule ID	Level	Message
5001	1	Invalid value
5002	2	Element cannot be blank
5005	2	The value submitted falls outside the valid range of 0-100
5006	2	Element cannot be "Not Applicable"
5007	3	The value is below 5
5008	3	The value is above 75
5040	1	Single Entry Max exceeded

Determination of respiratory assistance associated with the *Initial ED/Hospital Respiratory Rate* within 30 minutes or less of ED/Hospital arrival.

## **ELEMENT VALUES**

1. Unassisted Respiratory Rate

2. Assisted Respiratory Rate

## **ADDITIONAL INFORMATION**

- Only reported if *Initial ED/Hospital Respiratory Rate* is reported.
- Respiratory assistance is defined as mechanical and/or external support of respiration.
- Please note that first recorded hospital vitals do not need to be from the same assessment.
- The null value "Not Applicable" is reported if *Initial ED/Hospital Respiratory Rate* is "Not Known/Not Recorded."

## **DATA SOURCE HIERARCHY GUIDE**

- 1. Triage/Trauma/Hospital Flow Sheet
- 2. Nurses Notes/Flow Sheet
- 3. Respiratory Therapy Notes/Flow Sheet

Rule ID	Level	Message
5101	1	Value is not a valid menu option
5102	2	Element cannot be blank
5103	2	Element must be "Not Applicable" when <i>Initial ED/Hospital Respiratory Rate</i> is "Not Known/Not Recorded"
5140	1	Single Entry Max exceeded

## **INITIAL ED/HOSPITAL OXYGEN SATURATION**

#### DEFINITION

First recorded oxygen saturation in the ED/Hospital within 30 minutes or less of ED/Hospital arrival (expressed as a percentage).

## **ELEMENT VALUES**

• Relevant value for data element

#### **ADDITIONAL INFORMATION**

- If reported, report additional data element: Initial ED/Hospital Supplemental Oxygen.
- Please note that first recorded hospital vitals do not need to be from the same assessment.

## **DATA SOURCE HIERARCHY GUIDE**

- 1. Triage/Trauma/Hospital Flow Sheet
- 2. Nurses Notes/Flow Sheet
- 3. Respiratory Therapy Notes/Flow Sheet

Rule ID	Level	Message
5201	1	Invalid value
5202	2	Element cannot be blank
5205	2	Element cannot be "Not Applicable"
5206	2	The value submitted falls outside the valid range of 0-100
5207	3	The value is below 40
5240	1	Single Entry Max exceeded

## **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.

## **ELEMENT VALUES**

1. No Supplemental Oxygen

2. Supplemental Oxygen

## Additional Information

- The null value "Not Applicable" is reported if the *Initial ED/Hospital Oxygen Saturation* is "Not Known/Not Recorded"
- Please note that first recorded hospital vitals do not need to be from the same assessment.

## **DATA SOURCE HIERARCHY GUIDE**

- 1. Triage/Trauma/Hospital Flow Sheet
- 2. Nurses Notes/Flow Sheet

Rule ID	Level	Message
5301	1	Value is not a valid menu option
5303	2	Element cannot be blank
5304	2	Element must be "Not Applicable" when <i>Initial ED/Hospital Oxygen Saturation</i> is "Not Known/Not Recorded"
5340	1	Single Entry Max exceeded

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

## **ELEMENT 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**

- If a patient does not have a numeric GCS score recorded, but written documentation closely (or directly) relates to verbiage describing a specific level of functioning within the GCS scale, the appropriate numeric score may be reported. E.g. the chart indicates: "patient's pupils are PERRL," an Eye GCS of 4 may be reported, IF there is no other contradicting documentation.
- Please note that first recorded hospital vitals do not need to be from the same assessment.
- The null value "Not Known/Not Recorded" is reported if *Initial ED/Hospital GCS 40 Eye* is documented.
- The null value "Not Known/Not Recorded" is reported if the patient's *Initial ED/Hospital GCS Eye* was not measured within 30 minutes or less of ED/Hospital arrival.

## **DATA SOURCE HIERARCHY GUIDE**

- 1. Triage/Trauma/Hospital Flow Sheet
- 2. Nurses Notes/Flow Sheet
- 3. Physician Notes/Flow Sheet

Rule ID	Level	Message
5401	1	Value is not a valid menu option
5403	2	Element cannot be blank
5404	2	Element cannot be "Not Applicable"
5405	2	Element must be "Not Known/Not Recorded" when <i>Initial ED/Hospital GCS 40 – Eye</i> is reported.
5440	1	Single Entry Max exceeded

First recorded Glasgow Coma Score (Verbal) within 30 minutes or less of ED/Hospital arrival.

## **ELEMENT VALUES**

## <u>Pediatric (≤ 2 years):</u>

- 1. No vocal response
- 2. Inconsolable, agitated
- 3. Inconsistently consolable, moaning
- 4. Cries but is consolable, inappropriate interactions
- 5. Smiles, oriented to sounds, follow objects, interacts

## <u>Adult</u>

- 1. No verbal response
- 2. Incomprehensible sounds
- 3. Inappropriate words

## **ADDITIONAL INFORMATION**

- If patient is intubated then the GCS Verbal score is equal to 1.
- If a patient does not have a numeric GCS score recorded, but written documentation closely (or directly) relates to verbiage describing a specific level of functioning within the GCS scale, the appropriate numeric score may be reported. E.g. the chart indicates: "patient is oriented to person place and time," a Verbal GCS of 5 may be reported, IF there is no other contradicting documentation.

4. Confused

5. Oriented

- Please note that first recorded hospital vitals do not need to be from the same assessment.
- The null value "Not Known/Not Recorded" is reported if Initial *ED/Hospital GCS 40 Verbal* is reported.
- The null value "Not Known/Not Recorded" is reported if the patient's *Initial ED/Hospital GCS – Verbal* was not measured within 30 minutes or less of ED/Hospital arrival.

## **DATA SOURCE HIERARCHY GUIDE**

- 1. Triage/Trauma/Hospital Flow Sheet
- 2. Nurses Notes/Flow Sheet
- 3. Physician Notes/Flow Sheet

## **ASSOCIATED EDIT CHECKS**

Rule ID	Level	Message	
5501	1	Value is not a valid menu option	
5503	2	Element cannot be blank	
5504	2	Element cannot be "Not Applicable"	
5505	2	Element must be "Not Known/Not Recorded" when <i>Initial ED/Hospital</i> GCS 40- Verbal is reported.	
5540	1	Single Entry Max exceeded	

First recorded Glasgow Coma Score (Motor) within 30 minutes or less of ED/Hospital arrival.

## **ELEMENT VALUES**

## <u>Pediatric (≤ 2 years):</u>

- 1. No motor response
- 2. Extension to pain
- 3. Flexion to pain

## <u>Adult</u>

- 1. No motor response
- 2. Extension to pain
- 3. Flexion to pain

- 4. Withdrawal from pain
- 5. Localizing pain
- 6. Appropriate response to stimulation
- 4. Withdrawal from pain
- 5. Localizing pain
- 6. Obeys commands

## **ADDITIONAL INFORMATION**

- If a patient does not have a numeric GCS score recorded, but written documentation closely (or directly) relates to verbiage describing a specific level of functioning within the GCS scale, the appropriate numeric score may be reported. E.g. the chart indicates: "patient withdraws from a painful stimulus," a Motor GCS of 4 may be reported, IF there is no other contradicting documentation.
- Please note that first record ED/Hospital vitals do not need to be from the same assessment.
- The null value "Not Known/Not Recorded" is reported if *Initial ED/Hospital GCS 40 Motor* is reported.
- The null value "Not Known/Not Recorded" is reported if the patient's *Initial ED/Hospital GCS – Motor* was not measured within 30 minutes or less of ED/Hospital arrival.

## **DATA SOURCE HIERARCHY GUIDE**

- 1. Triage/Trauma/Hospital Flow Sheet
- 2. Nurses Notes/Flow Sheet
- 3. Physician Notes/Flow Sheet

## **ASSOCIATED EDIT CHECKS**

Rule ID	Level	Message
5601	1	Value is not a valid menu option
5603	2	Element cannot be blank
5604	2	Element cannot be "Not Applicable"
5605	2	Element must be "Not Known/Not Recorded" when <i>Initial ED/Hospital</i> GCS 40 - Motor is reported
5640	1	Single Entry Max exceeded

First recorded Glasgow Coma Score (total) within 30 minutes or less of ED/Hospital arrival.

## **ELEMENT VALUES**

• Relevant value for data element

## **ADDITIONAL INFORMATION**

- If a patient does not have a numeric GCS recorded, but there is documentation related to their level of consciousness such as "AAOx3", "awake alert and oriented", or "patient with normal mental status", report this as GCS of 15 IF there is no other contradicting documentation.
- Please note that first record ED/Hospital vitals do not need to be from the same assessment.
- The null value "Not Known/Not Recorded" is reported if Initial ED/Hospital GCS 40 is reported.
- The null value "Not Known/Not Recorded" is reported if *Initial ED/Hospital GCS Eye*, *Initial ED/Hospital GCS – Motor*, *Initial ED/Hospital GCS – Verbal* were not measured within 30 minutes or less of ED/Hospital arrival.

## **DATA SOURCE HIERARCHY GUIDE**

- 1. Triage/Trauma/Hospital Flow Sheet
- 2. Nurses Notes/Flow Sheet
- 3. Physician Notes/Flow Sheet

## Associated Edit Checks

Rule ID	Level	Message
5701	1	GCS Total is outside the valid range of 3 - 15
5703	3	Initial ED/Hospital GCS - Total does not equal the sum of Initial ED/Hospital GCS - Eye, Initial ED/Hospital GCS - Verbal, and Initial ED/Hospital GCS – Motor, unless any of these values are "Not Known/Not Recorded"
5705	2	Element cannot be blank
5706	2	Element cannot be "Not Applicable"
5707	2	Element must be "Not Known/Not Recorded" when <i>Initial ED/Hospital GCS 40 – Eye</i> , <i>Initial ED/Hospital GCS 40 – Verbal</i> , or <i>Initial ED/Hospital GCS 40 – Motor</i> are reported.
5740	1	Single Entry Max exceeded

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

#### **ELEMENT VALUES**

- 1. Patient Chemically Sedated or Paralyzed
- 2. Obstruction to the Patient's Eye
- 3. Patient Intubated

## **ADDITIONAL INFORMATION**

- 4. Valid GCS: Patient was not sedated, not intubated, and did not have obstruction to the eye
- Identifies treatments given to the patient that may affect the first assessment of GCS. This element 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 reported.
- Neuromuscular blockade is typically induced following the administration of agent like succinylcholine, mivacurium, rocuronium, (cis)atracurium, vecuronium, or pancuronium. While these are the most common agents, please review what might be typically used in your center so it can be identified in the medical record.
- Each of these agents has a slightly different duration of action, so their effect on the GCS depends on when they were given. For example, succinylcholine's effects last for only 5-10 minutes.
- Please note that first recorded hospital vitals do not need to be from the same assessment.
- Report all that apply.
- The null value "Not Known/Not Recorded" is reported if Initial ED/Hospital GCS 40 is reported.
- The null value "Not Known/Not Recorded" is reported if the *Initial ED/Hospital GCS* Assessment Qualifiers are not documented within 30 minutes or less of ED/Hospital arrival.

## **DATA SOURCE HIERARCHY GUIDE**

- 1. Triage/Trauma/Hospital Flow Sheet
- 2. Nurses Notes/Flow Sheet
- 3. Physician Notes/Flow Sheet

## **ASSOCIATED EDIT CHECKS**

Rule ID	Level	Message	
5801	1	Value is not a valid menu option	
5802	2	Element cannot be blank	
5803	2	Element cannot be "Not Applicable"	
5804	2	Element must be "Not Known/Not Recorded" when <i>Initial ED/Hospital GCS 40 – Eye</i> , <i>Initial ED/Hospital GCS 40 – Verbal</i> , or <i>Initial ED/Hospital GCS 40 – Motor</i> are reported.	
5805	2	Element cannot be "Not Known/Not Recorded" along with any other value	
5850	1	Multiple Entry Max exceeded	

## **INITIAL ED/HOSPITAL GCS-40 EYE**

#### DEFINITION

First recorded Glasgow Coma Score 40 (Eye) in the ED/Hospital within 30 minutes or less of ED/ Hospital arrival.

#### **ELEMENT VALUES**

#### Adult:

- 0. Not Testable
- 1. None
- 2. To Pressure
- *Pediatric* < 5 years:
  - 0. Not Testable
  - 1. None
  - 2. To Pain

To Sound
 Spontaneous

3. To Sound

4. Spontaneous

## **Additional Information**

- If a patient does not have a numeric GCS score recorded, but written documentation closely (or directly) relates to verbiage describing a specific level of functioning within the GCS 40 scale, the appropriate numeric score may be reported. E.g. the chart indicates: "patient's eyes open spontaneously," an Eye GCS 40 of 4 may be reported, IF there is no other contradicting documentation.
- Report *Element Value* "0. Not Testable" if unable to assess (e.g. swelling to eye(s)).
- The null value "Not Known/Not Recorded" is reported if *Initial ED/Hospital GCS Eye* is reported.
- The null value "Not Known/Not Recorded" is reported if the patient's *Initial ED/Hospital* GCS - 40 Eye was not measured within 30 minutes or less of ED/Hospital arrival.

## **DATA SOURCE HIERARCHY GUIDE**

- 1. Triage/Trauma/Hospital Flow Sheet
- 2. Nurses Notes/Flow Sheet
- 3. Physician Notes/Flow Sheet

#### **ASSOCIATED EDIT CHECKS**

Rule ID	Level	Message
15301	1	Value is not a valid menu option
15303	2	Element cannot be blank
15304	2	Element cannot be "Not Applicable"
15305	2	Element must be "Not Known/Not Recorded" when <i>Initial ED/Hospital GCS – Eye</i> is reported.
15340	1	Single Entry Max exceeded

First recorded Glasgow Coma Score 40 (Verbal) within 30 minutes or less of ED/Hospital arrival.

## **ELEMENT VALUES**

## Adult:

- 0. Not Testable
- 1. None
- 2. Sounds

## Pediatric < 5 years:

- 0. Not Testable
- 1. None
- 2. Cries

- 3. Words
- 4. Confused
- 5. Oriented
- 3. Vocal Sounds
- 4. Words
- 5. Talks Normally

## **Additional Information**

- If a patient does not have a numeric GCS 40 score recorded, but written documentation closely (or directly) relates to verbiage describing a specific level of functioning within the GCS 40 scale, the appropriate numeric score may be reported. E.g. the chart indicates: "patient correctly gives name, place and date" a Verbal GCS of 5 may be reported, IF there is no other contradicting documentation.
- Report *Element Value* "0. Not Testable" if unable to assess (e.g. patient is intubated).
- The null value "Not Known/Not Recorded" is reported if *Initial ED/Hospital GCS Verbal* is reported.
- The null value "Not Known/Not Recorded" is reported if the patient's *Initial ED/Hospital GCS* 40 Verbal was not measured within 30 minutes or less of ED/Hospital arrival.

## **DATA SOURCE HIERARCHY GUIDE**

- 1. Triage/Trauma/Hospital Flow Sheet
- 2. Nurses Notes/Flow Sheet
- 3. Physician Notes/Flow Sheet

## **ASSOCIATED EDIT CHECKS**

Rule ID	Level	Message
15401	1	Value is not a valid menu option
15403	2	Element cannot be blank
15404	2	Element cannot be "Not Applicable"
15405	2	Element must be "Not Known/Not Recorded" when <i>Initial ED/Hospital GCS – Verbal</i> is reported.
15440	1	Single Entry Max exceeded

First recorded Glasgow Coma Score 40 (Motor) within 30 minutes or less of ED/Hospital arrival.

## **ELEMENT VALUES**

## Adult:

- 0. Not Testable
- 1. None
- 2. Extension
- 3. Abnormal Flexion

## Pediatric < 5 years:

- 0. Not Testable
- 1. None
- 2. Extension to Pain

- 4. Normal Flexion
- 5. Localizing
- 6. Obeys Commands
- 3. Flexion to Pain
- 4. Localizes Pain
- 5. Obeys Commands

## **ADDITIONAL INFORMATION**

- If a patient does not have a numeric GCS 40 score recorded, but written documentation closely (or directly) relates to verbiage describing a specific level of functioning within the GCS scale, the appropriate numeric score may be reported. E.g. the chart indicates: "patient opened mouth and stuck out tongue when asked" for adult patient's, a Motor GCS 40 of 6 may be reported, IF there is no other contradicting documentation.
- Report *Element Value* "0. Not Testable" if unable to assess (e.g. neuromuscular blockade).
- The null value "Not Known/Not Recorded" is reported if *Initial ED/Hospital GCS Motor* is reported.
- The null value "Not Known/Not Recorded" is reported if the patient's *Initial ED/Hospital GCS* 40 Motor was not measured within 30 minutes or less of ED/Hospital arrival.

## **DATA SOURCE HIERARCHY GUIDE**

- 1. Triage/Trauma/Hospital Flow Sheet
- 2. Nurses Notes/Flow Sheet
- 3. Physician Notes/Flow Sheet

## **ASSOCIATED EDIT CHECKS**

Rule ID	Level	Message
15501	1	Value is not a valid menu option
15503	2	Element cannot be blank
15504	2	Element cannot be "Not Applicable"
15505	2	Element must be "Not Known/Not Recorded" when <i>Initial ED/Hospital GCS – Motor</i> is reported.
15540	1	Single Entry Max exceeded

## **INITIAL ED/HOSPITAL HEIGHT**

#### DEFINITION

First recorded height within 24 hours or less of ED/Hospital arrival.

#### **ELEMENT VALUES**

• Relevant value for data element

## **ADDITIONAL INFORMATION**

- Report in centimeters.
- May be based on family or self-report.
- Please note that first recorded hospital vitals do not need to be from the same assessment.
- The null value "Not Known/Not Recorded" is reported if the patient's *Initial ED/Hospital Height* was not measured within 24 hours or less of ED/Hospital arrival.

## **DATA SOURCE HIERARCHY GUIDE**

- 1. Triage/Trauma/Hospital Flow Sheet
- 2. Nurses Notes/Flow Sheet
- 3. Pharmacy Record

Rule ID	Level	Message
8501	1	Invalid value
8502	2	Element cannot be blank
8503	3	The value is above 215
8504	2	Element cannot be "Not Applicable"
8505	2	The value submitted falls outside the valid range of 30-275
8506	3	The value is below 50
8540	1	Single Entry Max exceeded

## **INITIAL ED/HOSPITAL WEIGHT**

#### DEFINITION

First recorded weight within 24 hours or less of ED/Hospital arrival.

#### **ELEMENT VALUES**

• Relevant value for data element

## **ADDITIONAL INFORMATION**

- Report in kilograms.
- May be based on family or self-report.
- Please note that first recorded hospital vitals do not need to be from the same assessment.
- The null value "Not Known/Not Recorded" is reported if the patient's *Initial ED/Hospital Weight* was not measured within 24 hours or less of ED/Hospital arrival.

## **DATA SOURCE HIERARCHY GUIDE**

- 1. Triage/Trauma/Hospital Flow Sheet
- 2. Nurses Notes/Flow Sheet
- 3. Pharmacy Record

Rule ID	Level	Message
8601	1	Invalid value
8602	2	Element cannot be blank
8603	3	The value is above 200
8604	2	Element cannot be "Not Applicable"
8605	2	The value submitted falls outside the valid range 1-650
8606	3	The value is below 3
8640	1	Single Entry Max exceeded

## **DRUG SCREEN**

#### DEFINITION

First recorded positive drug screen results within 24 hours after first hospital encounter (select all that apply).

#### **ELEMENT VALUES**

- 1. AMP (Amphetamine)
- 2. BAR (Barbiturate)
- 3. BZO (Benzodiazepines)
- 4. COC (Cocaine)
- 5. mAMP (Methamphetamine)
- 6. MDMA (Ecstasy)
- 7. MTD (Methadone)
- 8. OPI (Opioid)

- 9. OXY (Oxycodone)
- 10. PCP (Phencyclidine)
- 11. TCA (Tricyclic Antidepressant)
- 12. THC (Cannabinoid)
- 13. Other
- 14. None
- 15. Not Tested

- ADDITIONAL INFORMATION
  - Report positive drug screen results within 24 hours after first hospital encounter, at either your facility or the transferring facility.
  - *Element Value* "14. None" for *Drug Screen* is reported for patients whose only positive results are due to drugs administered at any facility (or setting) treating this patient event, or for patients who were tested and had no positive results.
  - If multiple drugs are detected, only report drugs that were NOT administered at any facility (or setting) treating this patient event.

## **DATA SOURCE HIERARCHY GUIDE**

- 1. Lab Results
- 2. Transferring Facility Records

Rule ID	Level	Message
6011	1	Value is not a valid menu option
6012	2	Element cannot be blank
6013	2	Element cannot be "Not Applicable"
6014	2	Element cannot be "Not Known/Not Recorded", <i>Element Valu</i> e "14. None", or "15. Not Tested" along with <i>Element Values</i> 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, and/or 13
6050	1	Multiple Entry Max exceeded

## ALCOHOL SCREEN

#### DEFINITION

A blood alcohol concentration (BAC) test was performed on the patient within 24 hours after first hospital encounter.

#### **ELEMENT VALUES**

1. Yes

2. No

#### Additional Information

• Alcohol screen may be administered at any facility, unit, or setting treating this patient event.

## **DATA SOURCE HIERARCHY GUIDE**

- 1. Lab Results
- 2. Transferring Facility Records

Rule ID	Level	Message
5911	1	Value is not a valid menu option
5912	2	Element cannot be blank
5913	2	Element cannot be "Not Applicable"
5940	1	Single Entry Max exceeded

# **ALCOHOL SCREEN RESULTS**

#### DEFINITION

First recorded blood alcohol concentration (BAC) results within 24 hours after first hospital encounter.

# **ELEMENT VALUES**

• Relevant value for data element

### **ADDITIONAL INFORMATION**

- Reported as X.XX grams per deciliter (g/dl).
- Report BAC results within 24 hours after first hospital encounter, at either your facility or the transferring facility.
- The null value "Not Applicable" is reported for those patients who were not tested.

## **DATA SOURCE HIERARCHY GUIDE**

- 1. Lab Results
- 2. Transferring Facility Records

Rule ID	Level	Message
5931	1	Invalid value
5932	2	Element cannot be blank
5933	2	Element cannot be "Not Applicable" when <i>Alcohol Screen</i> is Element Value "1. Yes"
5935	2	The value submitted falls outside the valid range of 0.0-1.5
5936	3	The value is above 0.4
5934	1	Single Entry Max exceeded

## DEFINITION

The disposition unit the order was written for the patient to be discharged from the ED.

# **ELEMENT VALUES**

- 1. Floor bed (general admission, non-specialty unit bed)
- 2. Observation unit
- 3. Telemetry/step-down unit (less acuity than ICU)
- 4. Home with services
- 5. Deceased/expired

- 6. Other (jail, institutional care, mental health, etc.)
- 7. Operating Room
- 8. Intensive Care Unit (ICU)
- 9. Home without services
- 10. Left against medical advice
- 11. Transferred to another hospital

## **ADDITIONAL INFORMATION**

- The null value "Not Applicable" is reported if the patient was directly admitted to the hospital.
- If ED Discharge Disposition is 4, 5, 6, 9, 10, or 11, then Hospital Discharge Date, Hospital Discharge Time, and Hospital Discharge Disposition must be "Not Applicable".
- If multiple orders were written, report the final disposition order.

# **DATA SOURCE HIERARCHY GUIDE**

- 1. Physician Order
- 2. Discharge Summary
- 3. Nursing Notes/Flow Sheet
- 4. Case Management/Social Services Notes
- 5. ED Record
- 6. History & Physical

Rule ID	Level	Message
6101	1	Value is not a valid menu option
6102	2	Element cannot be blank
6104	2	Element cannot be "Not Known/Not Recorded"
6140	1	Single Entry Max exceeded

# **ED DISCHARGE DATE**

### DEFINITION

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

### **ELEMENT VALUES**

• Relevant value for data element

## **ADDITIONAL INFORMATION**

- Reported as YYYY-MM-DD.
- The null value "Not Applicable" is reported if the patient was directly admitted to the hospital.
- If *ED Discharge Disposition* is *Element Value* "5. Deceased/Expired," then *ED Discharge Date* is the date of death as indicated on the patient's death certificate.

## **DATA SOURCE HIERARCHY GUIDE**

- 1. Physician Order
- 2. ED Record
- 3. Triage/Trauma/Hospital Flow Sheet
- 4. Nursing Notes/Flow Sheet
- 5. Discharge Summary
- 6. Billing Sheet
- 7. Progress Notes

Rule ID	Level	Message
6301	1	Date is not valid
6302	1	Date out of range
6303	2	Element cannot be blank
6307	2	ED Discharge Date is earlier than ED/Hospital Arrival Date
6310	3	ED Discharge Date occurs more than 365 days after ED/Hospital Arrival Date
6311	2	Element must be and can only be "Not Applicable" when <i>ED Discharge Disposition</i> is "Not Applicable"
6312	3	ED Discharge Date is earlier than Injury Incident Date
6313	2	If <i>Hospital Discharge Disposition</i> is "Not Applicable" then <i>ED Discharge Date</i> cannot be earlier than <i>Hospital Procedure Start Date</i>
6314	3	Hospital Discharge Disposition is "Not Applicable" and ED Discharge Date is earlier than Cerebral Monitor Date
6315	2	If <i>Hospital Discharge Disposition</i> is "Not Applicable" then <i>ED Discharge Date</i> cannot be earlier than <i>Venous Thromboembolism Prophylaxis Date</i>
6316	2	If <i>Hospital Discharge Disposition</i> is "Not Applicable" then <i>ED Discharge Date</i> cannot be earlier than <i>Angiography Date</i>
6317	2	If <i>Hospital Discharge Disposition</i> is "Not Applicable" then <i>ED Discharge Date</i> cannot be earlier than <i>Surgery For Hemorrhage Control Date</i>
6318	2	If <i>Hospital Discharge Disposition</i> is "Not Applicable" then <i>ED Discharge Date</i> cannot be earlier than <i>Withdrawal of Life Supporting Treatment Date</i>
6319	2	If <i>Hospital Discharge Disposition</i> is "Not Applicable" then <i>ED Discharge Date</i> cannot be earlier than <i>Antibiotic Therapy Date</i>

# **ED DISCHARGE TIME**

## DEFINITION

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

### **ELEMENT VALUES**

• Relevant value for data element

## **ADDITIONAL INFORMATION**

- Reported as HHMM military time.
- The null value "Not Applicable" is reported if the patient was directly admitted to the hospital.
- If *ED Discharge Disposition* is *Element Value* "5. Deceased/Expired," then *ED Discharge Time* is the time of death as indicated on the patient's death certificate.

## **DATA SOURCE HIERARCHY GUIDE**

- 1. Physician Order
- 2. ED Record
- 3. Triage/Trauma/Hospital Flow Sheet
- 4. Nursing Notes/Flow Sheet
- 5. Discharge Summary
- 6. Billing Sheet
- 7. Progress Notes

## **ASSOCIATED EDIT CHECKS**

ASSOCIATED LDTT CHECKS			
Rule ID	Level	Message	
6401	1	Time is not valid	
6402	1	Time out of range	
6403	2	Element cannot be blank	
6407	2	ED Discharge Time is earlier than ED/Hospital Arrival Time	
6409	2	Element must be and can only be "Not Applicable" when <i>ED Discharge Date</i> is "Not Applicable"	
6410	3	Element must be "Not Known/Not Recorded" when <i>ED Discharge Date</i> is "Not Known/Not Recorded"	
6411	3	ED Discharge Time is earlier than Injury Incident Time	
6412	2	If <i>Hospital Discharge Disposition</i> is "Not Applicable" then <i>ED Discharge Time</i> cannot be earlier than <i>Hospital Procedure Start Time</i>	
6413	3	Hospital Discharge Disposition is "Not Applicable" and ED Discharge Time is earlier than Cerebral Monitor Time	
6414	2	If <i>Hospital Discharge Disposition</i> is "Not Applicable" then <i>ED Discharge Time</i> cannot be earlier than <i>Venous Thromboembolism Prophylaxis Time</i>	
6415	2	If <i>Hospital Discharge Disposition</i> is "Not Applicable" then <i>ED Discharge Time</i> cannot be earlier than <i>Angiography Time</i>	
6416	2	If <i>Hospital Discharge Disposition</i> is "Not Applicable" then <i>ED Discharge Time</i> cannot be earlier than <i>Surgery For Hemorrhage Control Time</i>	
6417	2	If <i>Hospital Discharge Disposition</i> is "Not Applicable" then <i>ED Discharge Time</i> cannot be earlier than <i>Withdrawal of Life Supporting Treatment Time</i>	
6418	2	If <i>Hospital Discharge Disposition</i> is "Not Applicable" then <i>ED Discharge Time</i> cannot be earlier than <i>Antibiotic Therapy Time</i>	
6440	1	Single Entry Max exceeded	

#### **EMERGENCY DEPARTMENT NFORMATION**

# **HOSPITAL PROCEDURE INFORMATION**

## 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 NTDB.

## **ELEMENT VALUES**

- Major and minor procedure ICD-10 PCS procedure codes.
- The maximum number of procedures that may be reported for a patient is 200.

# **Additional Information**

- The null value "Not Applicable" is reported if the patient did not have procedures.
- Only report procedures performed at your institution.
- Report all procedures performed in the operating room.
- Report 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, report only the first event. If there is no asterisk, report each event even if there is more than one.
- Note that the hospital may report additional procedures.

# DIAGNOSTIC AND THERAPEUTIC IMAGING

Computerized tomographic Head \* Computerized tomographic Chest \* Computerized tomographic Abdomen \* Computerized tomographic Pelvis \* Computerized tomographic C-Spine \* Computerized tomographic L-Spine \* Doppler ultrasound of extremities \* Diagnostic ultrasound (includes FAST) \* Angioembolization Angiography IVC filter REBOA

# CARDIOVASCULAR

Open cardiac massage CPR

# CNS

Insertion of ICP monitor \* Ventriculostomy Cerebral oxygen monitoring \*

# GENITOURINARY

Ureteric catheterization (i.e. Ureteric stent) Suprapubic cystostomy

# MUSCULOSKETETAL

Soft tissue/bony debridement \* Closed reduction of fractures Skeletal and halo traction Fasciotomy

## TRANSFUSION

Transfusion of red cells \* (only report first 24 hours after hospital arrival) Transfusion of platelets \* (only report first 24 hours after hospital arrival) Transfusion of plasma \* (only report first 24 hours after hospital arrival)

#### RESPIRATORY

Insertion of endotracheal tube \* (exclude intubations performed in the OR) Continuous mechanical ventilation \* Chest tube \* Bronchoscopy \* Tracheostomy

## **DATA SOURCE HIERARCHY GUIDE**

- 1. Operative Reports
- 2. Procedure Notes
- 3. Trauma Flow Sheet
- 4. ED Record
- 5. Nursing Notes/Flow Sheet
- 6. Radiology Reports
- 7. Discharge Summary

## **ASSOCIATED EDIT CHECKS**

Rule ID	Level	Message
8801	1	Invalid Value (ICD-10 PCS only)
8803	2	Element cannot be blank
8804	2	Element must not be "Not Applicable" or "Not Known/Not Recorded" along with any other value
8805	1	Invalid value (ICD-10-CA only)
8850	1	Multiple Entry Max exceeded

# GASTROINTESTINAL

Endoscopy (includes gastroscopy, sigmoidoscopy, colonoscopy) Gastrostomy/jejunostomy (percutaneous or endoscopic) Percutaneous (endoscopic) gastrojejunoscopy

# **HOSPITAL PROCEDURES START DATE**

#### DEFINITION

The date operative and selected non-operative procedures were performed.

#### **ELEMENT VALUES**

• Relevant value for data element

## **ADDITIONAL INFORMATION**

• Reported as YYYY-MM-DD.

## **DATA SOURCE HIERARCHY GUIDE**

- 1. Operative Reports
- 2. Procedure Notes
- 3. Trauma Flow Sheet
- 4. ED Record
- 5. Nursing Notes/Flow Sheet
- 6. Radiology Reports
- 7. Discharge Summary

Rule ID	Level	Message
6601	1	Date is not valid
6602	1	Date out of range
6606	3	Hospital Procedure Start Date is earlier than ED/Hospital Arrival Date
6609	2	Element cannot be blank
6610	2	Element must be and can only be "Not Applicable" when <i>ICD-10 Hospital</i> <i>Procedures</i> is "Not Applicable"
6611	2	Element must be "Not Known/Not Recorded" when <i>ICD-10 Hospital Procedures</i> is "Not Known/Not Recorded"
6650	1	Multiple Entry Max exceeded

# **HOSPITAL PROCEDURE START TIME**

#### DEFINITION

The time operative and selected non-operative procedures were performed.

### **ELEMENT VALUES**

• Relevant values for data element

## **ADDITIONAL INFORMATION**

- Reported as HHMM military time.
- Procedure start time is defined as the time the incision was made (or the procedure started).

## **DATA SOURCE HIERARCHY GUIDE**

- 1. Operative Reports
- 2. Anesthesia Reports
- 3. Procedure Notes
- 4. Trauma Flow Sheet
- 5. ED Record
- 6. Nursing Notes/Flow Sheet
- 7. Radiology Reports
- 8. Discharge Summary

Rule ID	Level	Message
6701	1	Time is not valid
6702	1	Time out of range
6706	3	Hospital Procedure Start Time is earlier than ED/Hospital Arrival Time
6708	2	Element cannot be blank
6709	2	Element must be and can only be "Not Applicable" when <i>Hospital Procedure</i> <i>Start Date</i> is "Not Applicable"
6710	2	Element must be "Not Known/Not Recorded" when <i>Hospital Procedure</i> <i>Start Date</i> is "Not Known/Not Recorded"
6750	1	Multiple Entry Max exceeded

# **PRE-EXISTING CONDITIONS**

# **ADVANCE DIRECTIVE LIMITING CARE**

#### DEFINITION

The patient had a written request limiting life-sustaining therapy, or similar advanced directive.

#### **ELEMENT VALUES**

1. Yes

2. No

## **ADDITIONAL INFORMATION**

• Present prior to arrival at your center.

# DATA SOURCE HIERARCHY GUIDE

- 1. History & Physical
- 2. Physician's Notes
- 3. Progress Notes
- 4. Case Management/Social Services
- 5. Nursing Notes/Flow Sheet
- 6. Triage/Trauma Flow Sheet
- 7. Discharge Summary

Rule ID	Level	Message
16001	1	Value is not a valid menu option
16003	2	Element cannot be blank
16004	2	Element cannot be "Not Applicable"
16040	1	Single Entry Max exceeded

# **ALCOHOL USE DISORDER**

#### DEFINITION

Descriptors documented in the medical record consistent with the diagnostic criteria of alcohol use disorder OR a diagnosis of alcohol use disorder documented in the patient's medical record.

#### **ELEMENT VALUES**

1. Yes

2. No

## Additional Information

- Present prior to injury.
- Consistent with American Psychiatric Association (APA) DSM 5, 2013.
- The null value "Not Known/Not Recorded" is only reported if no past medical history is available.

## **DATA SOURCE HIERARCHY GUIDE**

- 1. History & Physical
- 2. Physician's Notes
- 3. Progress Notes
- 4. Case Management/Social Services
- 5. Nursing Notes/Flow Sheet
- 6. Triage/Trauma Flow Sheet
- 7. Discharge Summary

Rule ID	Level	Message
16101	1	Value is not a valid menu option
16103	2	Element cannot be blank
16104	2	Element cannot be "Not Applicable"
16140	1	Single Entry Max exceeded

# **ANGINA PECTORIS**

#### DEFINITION

Chest pain or discomfort due to coronary heart disease. Usually causes uncomfortable pressure, fullness, squeezing or pain in the center of the chest. Patient may also feel the discomfort in the neck, jaw, shoulder, back or arm. Symptoms may be different in women than men.

#### **ELEMENT VALUES**

1. Yes

2. No

### **ADDITIONAL INFORMATION**

- Present prior to injury.
- A diagnosis of angina or chest pain must be documented in the patient's medical record.
- Consistent with American Heart Association (AHA), May 2015.
- The null value "Not Known/Not Recorded" is only reported if no past medical history is available.

### **DATA SOURCE HIERARCHY GUIDE**

- 1. History & Physical
- 2. Physician's Notes
- 3. Progress Notes
- 4. Case Management/Social Services
- 5. Nursing Notes/Flow Sheet
- 6. Triage/Trauma Flow Sheet
- 7. Discharge Summary

Rule ID	Level	Message
16201	1	Value is not a valid menu option
16203	2	Element cannot be blank
16204	2	Element cannot be "Not Applicable"
16240	1	Single Entry Max exceeded

# **ANTICOAGULANT THERAPY**

### DEFINITION

Documentation in the medical record of the administration of medication (anticoagulants, antiplatelet agents, thrombin inhibitors, thrombolytic agents) that interferes with blood clotting.

ANTICOAGULANTS	ANTIPLATELET AGENTS	THROMBIN INHIBITORS	THROMBOLYTIC AGENTS
Fondaparinux	Tirofiban	Bevalirudin	Alteplase
Warfarin	Dipyridamole	Argatroban	Reteplase
Dalteparin	Anagrelide	Lepirudin, Hirudin	Tenacteplase
Lovenox	Eptifibatide	Drotrecogin alpha	Kabikinase
Pentasaccaride	Dipyridamole	Dabigatran	tPA
APC	Clopidogrel		
Ximelagatran	Cilostazol		
Pentoxifylline	Abciximab		
Rivaroxaban	Ticlopidine		
Apixaban	Prasugrel		
Heparin	Ticagrelor		

## **ELEMENT VALUES**

1. Yes

2. No

## **ADDITIONAL INFORMATION**

- Present prior to injury.
- Anticoagulant must be part of the patient's active medication
- Exclude patients whose only anticoagulant therapy is chronic aspirin.
- The null value "Not Known/Not Recorded" is only reported if no past medical history is available.

## **DATA SOURCE HIERARCHY GUIDE**

- 1. History & Physical
- 2. Physician's Notes
- 3. Progress Notes
- 4. Case Management/Social Services
- 5. Nursing Notes/Flow Sheet
- 6. Triage/Trauma Flow Sheet
- 7. Discharge Summary

## **Associated Edit Checks**

Rule ID	Level	Message
16301	1	Value is not a valid menu option
16303	2	Element cannot be blank
16304	2	Element cannot be "Not Applicable"
16340	1	Single Entry Max exceeded

#### **PRE-EXISTING CONDITIONS**

# ATTENTION DEFICIT DISORDER/ATTENTION DEFICIT HYPERACTIVITY DISORDER (ADD/ADHD)

## DEFINITION

A disorder involving inattention, hyperactivity, or impulsivity requiring medication for treatment.

### **ELEMENT VALUES**

1. Yes

2. No

## Additional Information

- Present prior to ED/Hospital arrival.
- A diagnosis of ADD/ADHD must be documented in the patient's medical record.
- The null value "Not Known/Not Recorded" is only reported if no past medical history is available.

## **DATA SOURCE HIERARCHY GUIDE**

- 1. History & Physical
- 2. Physician's Notes
- 3. Progress Notes
- 4. Case Management/Social Services
- 5. Nursing Notes/Flow Sheet
- 6. Triage/Trauma Flow Sheet
- 7. Discharge Summary

Rule ID	Level	Message
16401	1	Value is not a valid menu option
16403	2	Element cannot be blank
16404	2	Element cannot be "Not Applicable"
16440	1	Single Entry Max exceeded

# **BLEEDING DISORDER**

#### DEFINITION

A group of conditions that result when the blood cannot clot properly.

## **ELEMENT VALUES**

1. Yes

2. No

## **ADDITIONAL INFORMATION**

- Present prior to injury.
- A bleeding disorder diagnosis must be documented in the patient's medical record (e.g. Hemophilia, von Willenbrand Disease, Factor V Leiden).
- Consistent with American Society of Hematology, 2015.
- The null value "Not Known/Not Recorded" is only reported if no past medical history is available.

## **DATA SOURCE HIERARCHY GUIDE**

- 1. History & Physical
- 2. Physician's Notes
- 3. Progress Notes
- 4. Case Management/Social Services
- 5. Nursing Notes/Flow Sheet
- 6. Triage/Trauma Flow Sheet
- 7. Discharge Summary

Rule ID	Level	Message
16501	1	Value is not a valid menu option
16503	2	Element cannot be blank
16504	2	Element cannot be "Not Applicable"
16540	1	Single Entry Max exceeded

# **CEREBRAL VASCULAR ACCIDENT (CVA)**

#### DEFINITION

A history prior to injury of a cerebrovascular accident (embolic, thrombotic, or hemorrhagic) with persistent residual motor sensory or cognitive dysfunction (e.g., hemiplegia, hemiparesis, aphasia, sensory deficit, impaired memory).

## **ELEMENT VALUES**

1. Yes

2. No

### **ADDITIONAL INFORMATION**

- Present prior to injury.
- A diagnosis of CVA must be documented in the patient's medical record.
- The null value "Not Known/Not Recorded" is only reported if no past medical history is available.

## **DATA SOURCE HIERARCHY GUIDE**

- 1. History & Physical
- 2. Physician's Notes
- 3. Progress Notes
- 4. Case Management/Social Services
- 5. Nursing Notes/Flow Sheet
- 6. Triage/Trauma Flow Sheet
- 7. Discharge Summary

Rule ID	Level	Message
16601	1	Value is not a valid menu option
16603	2	Element cannot be blank
16604	2	Element cannot be "Not Applicable"
16640	1	Single Entry Max exceeded

# **CHRONIC OBSTRUCTIVE PULMONARY DISEASE (COPD)**

### DEFINITION

Chronic obstructive pulmonary disease (COPD) is a lung disease characterized by chronic obstruction of lung airflow that interferes with normal breathing and is not fully reversible. The more familiar terms 'chronic bronchitis' and 'emphysema' are no longer used but are now included within the COPD diagnosis.

### **ELEMENT VALUES**

1. Yes

2. No

## **ADDITIONAL INFORMATION**

- Present prior to injury.
- A diagnosis of COPD must be documented in the patient's medical record.
- Exclude patients whose only pulmonary disease is asthma.
- Exclude patients with diffuse interstitial fibrosis or sarcoidosis.
- Consistent with World Health Organization (WHO), 2019.
- The null value "Not Known/Not Recorded" is only reported if no past medical history is available.

## **DATA SOURCE HIERARCHY GUIDE**

- 1. History & Physical
- 2. Physician's Notes
- 3. Progress Notes
- 4. Case Management/Social Services
- 5. Nursing Notes/Flow Sheet
- 6. Triage/Trauma Flow Sheet
- 7. Discharge Summary

Rule ID	Level	Message
16701	1	Value is not a valid menu option
16703	2	Element cannot be blank
16704	2	Element cannot be "Not Applicable"
16740	1	Single Entry Max exceeded

# **CHRONIC RENAL FAILURE**

#### DEFINITION

Chronic renal failure prior to injury that was requiring periodic peritoneal dialysis, hemodialysis, hemofiltration, or hemodiafiltration.

#### **ELEMENT VALUES**

1. Yes

2. No

### Additional Information

- Present prior to injury.
- A diagnosis of chronic renal failure must be documented in the patient's medical record.
- The null value "Not Known/Not Recorded" is only reported if no past medical history is available.

### **DATA SOURCE HIERARCHY GUIDE**

- 1. History & Physical
- 2. Physician's Notes
- 3. Progress Notes
- 4. Case Management/Social Services
- 5. Nursing Notes/Flow Sheet
- 6. Triage/Trauma Flow Sheet
- 7. Discharge Summary

Rule ID	Level	Message
16801	1	Value is not a valid menu option
16803	2	Element cannot be blank
16804	2	Element cannot be "Not Applicable"
16840	1	Single Entry Max exceeded

# **CIRRHOSIS**

### DEFINITION

Documentation in the medical record of cirrhosis, which might also be referred to as end-stage liver disease.

### **ELEMENT VALUES**

1. Yes

2. No

## Additional Information

- Present prior to injury.
- 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 cirrhosis should be considered present.
- A diagnosis of cirrhosis, or documentation of cirrhosis by diagnostic imaging studies or a laparotomy/laparoscopy, must be in the patient's medical record.
- The null value "Not Known/Not Recorded" is only reported if no past medical history is available.

## **DATA SOURCE HIERARCHY GUIDE**

- 1. History & Physical
- 2. Physician's Notes
- 3. Progress Notes
- 4. Case Management/Social Services
- 5. Nursing Notes/Flow Sheet
- 6. Triage/Trauma Flow Sheet
- 7. Discharge Summary

Rule ID	Level	Message
16901	1	Value is not a valid menu option
16903	2	Element cannot be blank
16904	2	Element cannot be "Not Applicable"
16940	1	Single Entry Max exceeded

# **CONGENITAL ANOMALIES**

#### DEFINITION

Documentation of a cardiac, pulmonary, body wall, CNS/spinal, GI, renal, orthopedic, or metabolic anomaly.

#### **ELEMENT VALUES**

1. Yes

2. No

### Additional Information

- Present prior to injury.
- A diagnosis of a congenital anomaly must be documented in the patient's medical record.
- The null value "Not Known/Not Recorded" is only reported if no past medical history is available.

### **DATA SOURCE HIERARCHY GUIDE**

- 1. History & Physical
- 2. Physician's Notes
- 3. Progress Notes
- 4. Case Management/Social Services
- 5. Nursing Notes/Flow Sheet
- 6. Triage/Trauma Flow Sheet
- 7. Discharge Summary

Rule ID	Level	Message
17001	1	Value is not a valid menu option
17003	2	Element cannot be blank
17004	2	Element cannot be "Not Applicable"
17040	1	Single Entry Max exceeded

# **CONGESTIVE HEART FAILURE (CHF)**

#### DEFINITION

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.

## **ELEMENT VALUES**

1. Yes

2. No

## Additional Information

- Present prior to injury.
- A diagnosis of CHF must be documented in the patient's medical record.
- To be included, this condition must be noted in the medical record as CHF, congestive heart failure, or pulmonary edema with onset of increasing symptoms within 30 days prior to injury.
- Common manifestations are:
  - Abnormal limitation in exercise tolerance due to dyspnea or fatigue
  - Orthopnea (dyspnea or lying supine)
  - Paroxysmal nocturnal dyspnea (awakening from sleep with dyspnea)
  - Increased jugular venous pressure
  - Pulmonary rales on physical examination
  - Cardiomegaly
  - Pulmonary vascular engorgement
- The null value "Not Known/Not Recorded" is only reported if no past medical history is available.

# **DATA SOURCE HIERARCHY GUIDE**

- 1. History & Physical
- 2. Physician's Notes
- 3. Progress Notes
- 4. Case Management/Social Services
- 5. Nursing Notes/Flow Sheet
- 6. Triage/Trauma Flow Sheet
- 7. Discharge Summary

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Rule ID	Level	Message
17101	1	Value is not a valid menu option
17103	2	Element cannot be blank
17104	2	Element cannot be "Not Applicable"
17140	1	Single Entry Max exceeded

#### **PRE-EXISTING CONDITIONS**

# **CURRENT SMOKER**

#### DEFINITION

A patient who reports smoking cigarettes every day or some days within the last 12 months.

#### **ELEMENT VALUES**

1. Yes

2. No

#### **ADDITIONAL INFORMATION**

- Present prior to injury.
- Exclude patients who smoke cigars or pipes or smokeless tobacco (chewing tobacco or snuff).
- The null value "Not Known/Not Recorded" is only reported if no past medical history is available.

#### **DATA SOURCE HIERARCHY GUIDE**

- 1. History & Physical
- 2. Physician's Notes
- 3. Progress Notes
- 4. Case Management/Social Services
- 5. Nursing Notes/Flow Sheet
- 6. Triage/Trauma Flow Sheet
- 7. Discharge Summary

Rule ID	Level	Message
17201	1	Value is not a valid menu option
17203	2	Element cannot be blank
17204	2	Element cannot be "Not Applicable"
17240	1	Single Entry Max exceeded

## DEFINITION

A patient who is currently receiving any chemotherapy treatment for cancer prior to injury.

## **ELEMENT VALUES**

1. Yes

2. No

## **ADDITIONAL INFORMATION**

- Present prior to injury.
- 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.
- The null value "Not Known/Not Recorded" is only reported if no past medical history is available.

## **DATA SOURCE HIERARCHY GUIDE**

- 1. History & Physical
- 2. Physician's Notes
- 3. Progress Notes
- 4. Case Management/Social Services
- 5. Nursing Notes/Flow Sheet
- 6. Triage/Trauma Flow Sheet
- 7. Discharge Summary

Rule ID	Level	Message
17301	1	Value is not a valid menu option
17303	2	Element cannot be blank
17304	2	Element cannot be "Not Applicable"
17340	1	Single Entry Max exceeded

# DEMENTIA

#### DEFINITION

Documentation in the patient's medical record of dementia including senile or vascular dementia (e.g., Alzheimer's).

### **ELEMENT VALUES**

1. Yes

2. No

## Additional Information

- Present prior to injury.
- A diagnosis of dementia must be documented in the patient's medical record.
- The null value "Not Known/Not Recorded" is only reported if no past medical history is available.

## **DATA SOURCE HIERARCHY GUIDE**

- 1. History & Physical
- 2. Physician's Notes
- 3. Progress Notes
- 4. Case Management/Social Services
- 5. Nursing Notes/Flow Sheet
- 6. Triage/Trauma Flow Sheet
- 7. Discharge Summary

Rule ID	Level	Message
17401	1	Value is not a valid menu option
17403	2	Element cannot be blank
17404	2	Element cannot be "Not Applicable"
17440	1	Single Entry Max exceeded

# **DIABETES MELLITUS**

#### DEFINITION

Diabetes mellitus that requires exogenous parenteral insulin or an oral hypoglycemic agent.

#### **ELEMENT VALUES**

1. Yes

2. No

### **ADDITIONAL INFORMATION**

- Present prior to injury.
- A diagnosis of diabetes mellitus must be documented in the patient's medical record.
- The null value "Not Known/Not Recorded" is only reported if no past medical history is available.

### **DATA SOURCE HIERARCHY GUIDE**

- 1. History & Physical
- 2. Physician's Notes
- 3. Progress Notes
- 4. Case Management/Social Services
- 5. Nursing Notes/Flow Sheet
- 6. Triage/Trauma Flow Sheet
- 7. Discharge Summary

Rule ID	Level	Message
17501	1	Value is not a valid menu option
17503	2	Element cannot be blank
17504	2	Element cannot be "Not Applicable"
17540	1	Single Entry Max exceeded

# **DISSEMINATED CANCER**

#### DEFINITION

Patients who have cancer that has spread to one 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.

## **ELEMENT VALUES**

1. Yes

2. No

## **ADDITIONAL INFORMATION**

- Present prior to injury.
- 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).
- A diagnosis of cancer that has spread to one or more sites must be documented in the patient's medical record.
- The null value "Not Known/Not Recorded" is only reported if no past medical history is available.

## **DATA SOURCE HIERARCHY GUIDE**

- 1. History & Physical
- 2. Physician's Notes
- 3. Progress Notes
- 4. Case Management/Social Services
- 5. Nursing Notes/Flow Sheet
- 6. Triage/Trauma Flow Sheet
- 7. Discharge Summary

Rule ID	Level	Message
17601	1	Value is not a valid menu option
17603	2	Element cannot be blank
17604	2	Element cannot be "Not Applicable"
17640	1	Single Entry Max exceeded

# FUNCTIONALLY DEPENDENT HEALTH STATUS

#### DEFINITION

Pre-injury functional status may be represented by the ability of the patient to complete ageappropriate activities of daily living (ADL).

#### **ELEMENT VALUES**

1. Yes

2. No

## Additional Information

- Present prior to injury.
- Activities of daily living include: bathing, feeding, dressing, toileting, and walking.
- Include patients whom prior to injury, and as a result of cognitive or physical limitations
  relating to a pre-existing medical condition, was partially dependent or completely
  dependent upon equipment, devices or another person to complete some or all activities of
  daily living.
- The null value "Not Known/Not Recorded" is only reported if no past medical history is available.

### **DATA SOURCE HIERARCHY GUIDE**

- 1. History & Physical
- 2. Physician's Notes
- 3. Progress Notes
- 4. Case Management/Social Services
- 5. Nursing Notes/Flow Sheet
- 6. Triage/Trauma Flow Sheet
- 7. Discharge Summary

Rule ID	Level	Message
17701	1	Value is not a valid menu option
17703	2	Element cannot be blank
17704	2	Element cannot be "Not Applicable"
17740	1	Single Entry Max exceeded

# **HYPERTENSION**

#### DEFINITION

History of persistent elevated blood pressure requiring medical therapy.

## **ELEMENT VALUES**

1. Yes

2. No

## **Additional Information**

- Present prior to injury.
- A diagnosis of hypertension must be documented in the patient's medical record.
- Element Value "1. Yes" is reported if the patient is non-complaint with their hypertension medication.
- The null value "Not Known/Not Recorded" is only reported if no past medical history is available.

## **DATA SOURCE HIERARCHY GUIDE**

- 1. History & Physical
- 2. Physician's Notes
- 3. Progress Notes
- 4. Case Management/Social Services
- 5. Nursing Notes/Flow Sheet
- 6. Triage/Trauma Flow Sheet
- 7. Discharge Summary

Rule ID	Level	Message
17801	1	Value is not a valid menu option
17803	2	Element cannot be blank
17804	2	Element cannot be "Not Applicable"
17840	1	Single Entry Max exceeded

# **MENTAL/PERSONALITY DISORDERS**

## DEFINITION

History of a diagnosis and/or treatment for the following disorder(s) documented in the patient's medical record:

- Schizophrenia
- Bipolar Disorder
- Major Depressive Disorder
- Social Anxiety Disorder
- Posttraumatic Stress Disorder
- Antisocial Personality Disorder

## **ELEMENT VALUES**

1. Yes

2. No

## **ADDITIONAL INFORMATION**

- Present prior to injury.
- Consistent with American Psychiatric Association (APA) DSM 5, 2013.
- The null value "Not Known/Not Recorded" is only reported if no past medical history is available.

## **DATA SOURCE HIERARCHY GUIDE**

- 1. History & Physical
- 2. Physician's Notes
- 3. Progress Notes
- 4. Case Management/Social Services
- 5. Nursing Notes/Flow Sheet
- 6. Triage/Trauma Flow Sheet
- 7. Discharge Summary

Rule ID	Level	Message
17901	1	Value is not a valid menu option
17903	2	Element cannot be blank
17904	2	Element cannot be "Not Applicable"
17940	1	Single Entry Max exceeded

## DEFINITION

History of a MI in the six months prior to injury.

## **ELEMENT VALUES**

1. Yes

2. No

## **ADDITIONAL INFORMATION**

- Present prior to injury.
- A diagnosis of MI must be documented in the patient's medical record.
- The null value "Not Known/Not Recorded" is only reported if no past medical history is available.

## **DATA SOURCE HIERARCHY GUIDE**

- 1. History & Physical
- 2. Physician's Notes
- 3. Progress Notes
- 4. Case Management/Social Services
- 5. Nursing Notes/Flow Sheet
- 6. Triage/Trauma Flow Sheet
- 7. Discharge Summary

Rule ID	Level	Message
18001	1	Value is not a valid menu option
18003	2	Element cannot be blank
18004	2	Element cannot be "Not Applicable"
18040	1	Single Entry Max exceeded

# **PERIPHERAL ARTERIAL DISEASE (PAD)**

#### DEFINITION

The narrowing or blockage of the vessels that carry blood from the heart to the legs. It is primarily caused by the buildup of fatty plaque in the arteries, which is called atherosclerosis. Peripheral Arterial Disease (PAD)can occur in any blood vessel, but it is more common in the legs than the arms.

## **ELEMENT VALUES**

1. Yes

2. No

## **ADDITIONAL INFORMATION**

- Present prior to injury.
- Consistent with Centers for Disease Control, 2014 Fact Sheet.
- A diagnosis of Peripheral Arterial Disease (PAD) must be documented in the patient's medical record.
- The null value "Not Known/Not Recorded" is only reported if no past medical history is available.

## **DATA SOURCE HIERARCHY GUIDE**

- 1. History & Physical
- 2. Physician's Notes
- 3. Progress Notes
- 4. Case Management/Social Services
- 5. Nursing Notes/Flow Sheet
- 6. Triage/Trauma Flow Sheet
- 7. Discharge Summary

Rule ID	Level	Message
18101	1	Value is not a valid menu option
18103	2	Element cannot be blank
18104	2	Element cannot be "Not Applicable"
18140	1	Single Entry Max exceeded

# PREGNANCY

#### DEFINITION

Pregnancy confirmed by lab, ultrasound, or other diagnostic tool OR diagnosis of pregnancy documented in the patient's medical record.

#### **ELEMENT VALUES**

1. Yes

2. No

### Additional Information

- Present prior to arrival at your center.
- The null value "Not Known/Not Recorded" is only reported if no past medical history is available.

## **DATA SOURCE HIERARCHY GUIDE**

- 1. History & Physical
- 2. Physician's Notes
- 3. Progress Notes
- 4. Case Management/Social Services
- 5. Nursing Notes/Flow Sheet
- 6. Triage/Trauma Flow Sheet
- 7. Discharge Summary

Rule ID	Level	Message	
21501	1	Value is not a valid menu option	
21503	2	Element cannot be blank	
21504	2	Element cannot be "Not Applicable"	
21540	1	Single Entry Max exceeded	

# PREMATURITY

#### DEFINITION

Babies born before 37 weeks of pregnancy are completed.

### **ELEMENT VALUES**

1. Yes

2. No

## **ADDITIONAL INFORMATION**

- Present prior to injury.
- A diagnosis of prematurity, or delivery before 37 weeks of pregnancy are completed, must be documented in the patient's medical record.
- The null value "Not Known/Not Recorded" is only reported if no past medical history is available.

## **DATA SOURCE HIERARCHY GUIDE**

- 1. History & Physical
- 2. Physician's Notes
- 3. Progress Notes
- 4. Case Management/Social Services
- 5. Nursing Notes/Flow Sheet
- 6. Triage/Trauma Flow Sheet
- 7. Discharge Summary

Rule ID	Level	Message
18201	1	Value is not a valid menu option
18203	2	Element cannot be blank
18204	2	Element cannot be "Not Applicable"
18240	1	Single Entry Max exceeded

# **STEROID USE**

#### DEFINITION

Patients that require the regular administration of oral or parenteral corticosteroid medications within 30 days prior to injury for a chronic medical condition.

#### **ELEMENT VALUES**

1. Yes

2. No

## Additional Information

- Present prior to injury.
- Examples of oral or parenteral corticosteroid medications are prednisone and dexamethasone.
- Examples of chronic medical conditions are Chronic Obstructive Pulmonary Disease (COPD), asthma, rheumatologic disease, rheumatoid arthritis, and inflammatory bowel disease.
- Exclude topical corticosteroids applied to the skin, and corticosteroids administered by inhalation or rectally.
- The null value "Not Known/Not Recorded" is only reported if no past medical history is available.

### **DATA SOURCE HIERARCHY GUIDE**

- 1. History & Physical
- 2. Physician's Notes
- 3. Progress Notes
- 4. Case Management/Social Services
- 5. Nursing Notes/Flow Sheet
- 6. Triage/Trauma Flow Sheet
- 7. Discharge Summary

Rule ID	Level	Message
18301	1	Value is not a valid menu option
18303	2	Element cannot be blank
18304	2	Element cannot be "Not Applicable"
18340	1	Single Entry Max exceeded

## DEFINITION

Descriptors documented in the patient's medical record consistent with the diagnostic criteria of substance use disorders specifically cannabis, hallucinogens, inhalants, opioids, sedative/ hypnotics, and stimulants (e.g. patient has a history of drug use; patient has a history of opioid use) OR diagnosis of any of the following documented in the patient's medical record:

- Cannabis Use Disorder; Other Cannabis-Induced Disorder; Unspecified Cannabis-Related Disorder
- Phencyclidine Use Disorder; Other Hallucinogen Use Disorder; Hallucinogen Persisting Perception Disorder; Other Phencyclidine-Induced Disorder; Other Hallucinogen-Induced Disorder; Unspecified Phencyclidine-Related Disorder; Unspecified Hallucinogen-Related Disorder
- Inhalant Use Disorder; Other Inhalant-Induced Disorder; Unspecified Inhalant-Related Disorder
- Opioid Use Disorder; Other Opioid-Induced Disorder; Unspecified Opioid-Related Disorder
- Sedative, Hypnotic, or Anxiolytic Use Disorder; Other Sedative, Hypnotic, or Anxiolytic-Induced Disorder; Unspecified Sedative, Hypnotic, or Anxiolytic-Related Disorder
- Stimulant Use Disorder; Other Stimulant-Induced Disorder; Unspecified Stimulant-Related Disorder

## **ELEMENT VALUES**

1. Yes

2. No

# **Additional Information**

- Present prior to arrival at your center.
- Consistent with the American Psychiatric Association (APA) DSM 5, 2013.
- The null value "Not Known/Not Recorded" is only reported if no past medical history is available.

# **DATA SOURCE HIERARCHY GUIDE**

- 1. History & Physical
- 2. Physician's Notes
- 3. Progress Notes
- 4. Case Management/Social Services
- 5. Nursing Notes/Flow Sheet
- 6. Triage/Trauma Flow Sheet
- 7. Discharge Summary

## **ASSOCIATED EDIT CHECKS**

Rule ID	Level	Message
18401	1	Value is not a valid menu option
18403	2	Element cannot be blank
18404	2	Element cannot be "Not Applicable"
18440	1	Single Entry Max exceeded

#### **PRE-EXISTING CONDITIONS**

# **DIAGNOSIS INFORMATION**

## **ICD-10 INJURY DIAGNOSES**

#### DEFINITION

Diagnoses related to all identified injuries.

#### **ELEMENT VALUES**

- Injury diagnoses as defined by ICD-10-CM code range S00-S99, T07, T14, T79.A1-T79.A9 OR compatible ICD-10-CA code range.
- 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, co-morbidities, etc.) may also be included in this element.

#### **DATA SOURCE HIERARCHY GUIDE**

- 1. Autopsy/Medical Examiner Report
- 2. Operative Reports
- 3. Radiology Reports
- 4. Physician's Notes
- 5. Trauma Flow Sheet
- 6. History & Physical
- 7. Nursing Notes/Flow Sheet
- 8. Progress Notes
- 9. Discharge Summary

Rule ID	Level	Message
8701	1	Invalid value (ICD-10-CM only)
8702	2	Element cannot be blank
8703	2	At least one diagnosis must be provided and meet inclusion criteria. (ICD-10- CM only)
8705	1	Invalid value (ICD-10-CA only)
8706	2	At least one diagnosis must be provided and meet inclusion criteria. (ICD-10-CA only)
8707	2	Element cannot be "Not Applicable" or "Not Known/Not Recorded" along with any other value
8750	1	Multiple Entry Max exceeded

## AIS CODE

#### DEFINITION

The Abbreviated Injury Scale (AIS) code(s) that reflect the patient's injuries.

#### **ELEMENT VALUES**

• The code is the 8-digit AIS code

#### **ADDITIONAL INFORMATION**

## DATA SOURCE HIERARCHY GUIDE

1. AIS Coding Manual

Rule ID	Level	Message
21001	1	Invalid value
21004	2	AIS codes submitted are not valid AIS 05, Update 08, or AIS 2015 codes
21007	2	Element cannot be blank
21008	2	Element cannot be "Not Applicable"
21009	2	Element cannot be "Not Known/Not Recorded" along with any other value
21050	1	Multiple Entry Max exceeded

## **AIS VERSION**

#### DEFINITION

The software (and version) used to calculate Abbreviated Injury Scale (AIS) severity codes.

#### **ELEMENT VALUES**

6. AIS 05, Update 08

16. AIS 2015

**ADDITIONAL INFORMATION** 

## **DATA SOURCE HIERARCHY GUIDE**

1. AIS Coding Manual

Rule ID	Level	Message
7301	1	Value is not a valid menu option
7302	2	Element cannot be blank
7303	2	Element cannot be "Not Applicable"
7340	1	Single Entry Max exceeded

# **HOSPITAL EVENTS**

Acute Kidney Injury, AKI (stage 3), is an abrupt decrease in kidney function.

### **KDIGO** Staging of AKI Table:

STAGE	SERUM CREATININE	
3	3.0 times baseline	< 0.3 ml/kg/h for $\geq$ 24 hours
	OR	OR
	Increase in serum creatinine to	Anuria for ≥ 12 hours
	≥ 4.0mg/dI (≥353.6µmol/I)	
	OR	
	Initiation of renal replacement therapy OR,	
	in patients < 18 years, decrease in eGFR to	
	< 35ml/min per 1.73 m <sup>2</sup>	

## 1. Yes

2. No

## **ADDITIONAL INFORMATION**

- Must have occurred during the patient's initial stay at your hospital.
- A diagnosis of Acute Kidney Injury (AKI) must be documented in the patient's medical record.
- 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.
- Consistent with the March 2012 Kidney Disease Improving Global Outcome (KDIGO) Guideline.

## **DATA SOURCE HIERARCHY GUIDE**

- 1. History & Physical
- 2. Physician's Notes
- 3. Progress Notes
- 4. Case Management/Social Services
- 5. Nursing Notes/Flow Sheet
- 6. Triage/Trauma Flow Sheet
- 7. Discharge Summary

## **ASSOCIATED EDIT CHECKS**

Rule ID	Level	Message
18501	1	Value is not a valid menu option
18503	2	Element cannot be blank
18504	2	Element cannot be "Not Applicable"
18540	1	Single Entry Max exceeded

#### **HOSPITAL EVENTS**

## **ACUTE RESPIRATORY DISTRESS SYNDROME (ARDS)**

#### DEFINITION

Timing:	Within 1 week of known clinical insult or new or worsening respiratory symptoms.
Chest imaging:	Bilateral opacities – not fully explained by effusions, lobar/lung collage, or nodules
Origin of edema:	Respiratory failure not fully explained by cardiac failure of fluid overload. Need objective assessment (e.g., echocardiography) to exclude hydrostatic edema if no risk factor present
Oxygenation: Mild Moderate Severe	200 mm Hg < PaO2/FIO2 < 300 mm Hg With PEEP or CPAP ≥ = 5 cm H2Oc 100 mm Hg < PaO2/FIO2 < 200 mm Hg With PEEP >5 cm H2O PaO2/FIO2 < 100 mm Hg With PEEP or CPAP ≥ 5 cm H2O

#### **ELEMENT VALUES**

1. Yes	2.	No
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#### **ADDITIONAL INFORMATION**

- Must have occurred during the patient's initial stay at your hospital.
- A diagnosis of ARDS must be documented in the patient's medical record.
- Consistent with the 2012 New Berlin Definition.

## **DATA SOURCE HIERARCHY GUIDE**

- 1. History & Physical
- 2. Physician's Notes
- 3. Progress Notes
- 4. Case Management/Social Services
- 5. Nursing Notes/Flow Sheet
- 6. Triage/Trauma Flow Sheet
- 7. Discharge Summary

Rule ID	Level	Message
18601	1	Value is not a valid menu option
18603	2	Element cannot be blank
18604	2	Element cannot be "Not Applicable"
18640	1	Single Entry Max exceeded

## **ALCOHOL WITHDRAWAL SYNDROME**

#### DEFINITION

Characterized by tremor, sweating, anxiety, agitation, depression, nausea, and malaise. It occurs 6-48 hours after cessation of alcohol consumption and, when uncomplicated, abates after 2-5 days. It may be complicated by grand mal seizures and may progress to delirium (known as delirium tremens).

#### **ELEMENT VALUES**

1. Yes

2. No

## **ADDITIONAL INFORMATION**

- Must have occurred during the patient's initial stay at your hospital.
- Documentation of alcohol withdrawal must be in the patient's medical record.
- Consistent with the 2019 World Health Organization (WHO) definition of Alcohol Withdrawal Syndrome.

## **DATA SOURCE HIERARCHY GUIDE**

- 1. History & Physical
- 2. Physician's Notes
- 3. Progress Notes
- 4. Case Management/Social Services
- 5. Nursing Notes/Flow Sheet
- 6. Triage/Trauma Flow Sheet
- 7. Discharge Summary

Rule ID	Level	Message
18701	1	Value is not a valid menu option
18703	2	Element cannot be blank
18704	2	Element cannot be "Not Applicable"
18740	1	Single Entry Max exceeded

## **CARDIAC ARREST WITH CPR**

#### DEFINITION

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.

#### **ELEMENT VALUES**

1. Yes

2. No

#### Additional Information

- Must have occurred during the patient's initial stay at your hospital.
- Cardiac arrest must be documented in the patient's medical record.
- EXCLUDE patients whose ONLY episode of cardiac arrest with CPR was on arrival to your hospital.
- INCLUDE patients who, after arrival at your hospital, have had an episode of cardiac arrest evaluated by hospital personnel, and received compressions or defibrillation or cardioversion or cardiac pacing to restore circulation.

## **DATA SOURCE HIERARCHY GUIDE**

- 1. History & Physical
- 2. Physician's Notes
- 3. Progress Notes
- 4. Case Management/Social Services
- 5. Nursing Notes/Flow Sheet
- 6. Triage/Trauma Flow Sheet
- 7. Discharge Summary

Rule ID	Level	Message
18801	1	Value is not a valid menu option
18803	2	Element cannot be blank
18804	2	Element cannot be "Not Applicable"
18840	1	Single Entry Max exceeded

## CATHETER-ASSOCIATED URINARY TRACT INFECTION (CAUTI)

### DEFINITION

A urinary tract infection (UTI) where an indwelling urinary catheter was in place for > 2 calendar days on the date of event, with day of device placement being Day 1,

### AND

An indwelling urinary catheter was in place on the date of event or the day before. If an indwelling urinary catheter was in place for more than 2 consecutive days in an inpatient location and then removed, the date of event for the UTI must be the day of device discontinuation or the next day for the UTI to be catheter-associated.

## January 2019 CDC CAUTI Criterion SUTI 1a:

Patient must meet 1, 2, and 3 below:

- 1. Patient had an indwelling urinary catheter that had been in place for more than 2 consecutive days in an inpatient location on the date of event AND was either:
  - Present for any portion of the calendar day on the date of event, OR
  - Removed the day before the date of event
- 2. Patient has at least one of the following signs or symptoms:
  - Fever (>38°C): Reminder: To use fever in a patient >65 years of age, the IUC needs to be in place for more than 2 consecutive days in an inpatient location on date of event and is either still in place OR was removed the day before the DOE.
  - Suprapubic tenderness
  - Costovertebral angle pain or tenderness
  - Urinary urgency
  - Urinary frequency
  - dysuria
- 3. Patient has a urine culture with no more than two species of organisms identified, at least one of which is a bacterium >10<sup>5</sup> CFU/ml.

## January 2019 CDC CAUTI Criterion SUTI 2:

Patient must meet 1, 2 and 3 below:

- 1. Patient is ≤1 year of age
- 2. Patient has at least one of the following signs or symptoms:
  - fever (>38.0°C)
  - hypothermia (<36.0°C)
  - apnea
  - bradycardia
  - lethargy
  - vomiting
  - suprapubic tenderness
- Patient has a urine culture with no more than two species of organisms, at least one of which is a bacterium of ≥10<sup>5</sup> CFU/ml.

#### **HOSPITAL EVENTS**

#### **ELEMENT VALUES**

1. Yes

2. No

#### **ADDITIONAL INFORMATION**

- Must have occurred during the patient's initial stay at your hospital.
- A diagnosis of UTI must be documented in the patient's medical record.
- Consistent with the January 2019 CDC defined CAUTI.

## DATA SOURCE HIERARCHY GUIDE

- 1. History & Physical
- 2. Physician's Notes
- 3. Progress Notes
- 4. Case Management/Social Services
- 5. Nursing Notes/Flow Sheet
- 6. Triage/Trauma Flow Sheet
- 7. Discharge Summary

Rule ID	Level	Message
18901	1	Value is not a valid menu option
18903	2	Element cannot be blank
18904	2	Element cannot be "Not Applicable"
18940	1	Single Entry Max exceeded

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

The line was also 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 date of event of the LCBI must be the day of discontinuation or the next day to be a CLABSI. If the patient is admitted or transferred into a facility with an implanted central line (port) in place, and that is the patient's only central line, day of first access in an inpatient location is considered Day 1. "Access" is defined as line placement, infusion or withdrawal through the line. Such lines continue to be eligible for CLABSI once they are accessed until they are either discontinued or the day after patient discharge (as per the Transfer Rule.) Note that the "de-access" of a port does not result in the patient's removal from CLABSI surveillance.

## January 2016 CDC Criterion LCBI 1:

Patient has a recognized pathogen identified from one or more blood specimens by a culture or non-culture based microbiologic testing method which is performed for purposes of clinical diagnosis or treatment (e.g., not Active Surveillance Culture/Testing (ASC/AST).

#### AND

Organism(s) identified in blood is not related to an infection at another site.

OR

## January 2016 CDC Criterion LCBI 2:

Patient has at least one of the following signs or symptoms: fever (>38°C), chills, or hypotension

## AND

Organism(s) identified from blood is not related to an infection at another site.

## AND

the same common commensal (i.e., diphtheroids [Corynebacterium spp. not C. diphtheriae], Bacillus spp. [not B. anthracis], Propionibacterium spp., coagulase-negative staphylococci [including S. epidermidis], viridans group streptococci, Aerococcus spp., and Micrococcus spp.) is identified from two or more blood specimens drawn on separate occasions, by a culture or non- culture based microbiologic testing method which is performed for purposes of clinical diagnosis or treatment (e.g., not Active Surveillance Culture/Testing (ASC/AST). Criterion elements must occur within the Infection Window Period, the 7-day time period which includes the collection date of the positive blood, the 3 calendar days before and the 3 calendar days after.

OR

## January 2016 CDC Criterion LCBI 3:

Patient  $\leq$  1 year of age has at least one of the following signs or symptoms: fever (>38° C), hypothermia (<36°C), apnea, or bradycardia

## AND

Organism(s) identified from blood is not related to an infection at another site

## AND

the same common commensal (i.e., diphtheroids [Corynebacterium spp. not C. diphtheriae], Bacillus spp. [not B. anthracis], Propionibacterium spp., coagulase-negative staphylococci [including S. epidermidis], viridans group streptococci, Aerococcus spp., Micrococcus spp.) is identified from two or more blood specimens drawn on separate occasions, by a culture or non- culture base microbiologic testing method which is performed for purposes of clinical diagnosis or treatment (e.g., not Active Surveillance Culture/Testing (ASC/AST). Criterion elements must occur within the Infection Window Period, the 7-day time period which includes the collection date of the positive blood, the 3 calendar days before and the 3 calendar days after.

## **ELEMENT VALUES**

1. Yes

2. No

## **ADDITIONAL INFORMATION**

- Must have occurred during the patient's initial stay at your hospital.
- A diagnosis of CLABSI must be documented in the patient's medical record.
- Consistent with the January 2016 CDC defined CLABSI.

## **DATA SOURCE HIERARCHY GUIDE**

- 1. History & Physical
- 2. Physician's Notes
- 3. Progress Notes
- 4. Case Management/Social Services
- 5. Nursing Notes/Flow Sheet
- 6. Triage/Trauma Flow Sheet
- 7. Discharge Summary

Rule ID	Level	Message
19001	1	Value is not a valid menu option
19003	2	Element cannot be blank
19004	2	Element cannot be "Not Applicable"
19040	1	Single Entry Max exceeded

Must meet the following criteria:

Infection occurs within 30 or 90 days after the NHSN operative procedure (where day 1 = the procedure date) According to list in Table 2

## AND

involves deep soft tissues of the incision (e.g., fascial and muscle layers)

## AND

patient has at least one of the following:

- **a**. purulent drainage from the deep incision.
- a deep incision that spontaneously dehisces, or is deliberately opened or aspirated by a surgeon, attending physician\*\* or other designee and organism is identified by a culture or non-culture based microbiologic testing method which is performed for purposes of clinical diagnosis or treatment (e.g., not Active Surveillance Culture/Testing (ASC/AST) or culture or non-culture based microbiologic testing method is not performed

## AND

Organism(s) identified from the deep soft tissues of the incision by culture or non-culture based microbiologic testing method which is performed for purposes of clinical diagnosis or treatment (for example, not Active Surveillance Culture/Testing (ASC/AST) or culture or non-culture based microbiologic testing method is not performed. A culture or non-culture based test from the deep soft tissues of the incision that has a negative finding does not meet this criterion.

## AND

patient has at least one of the following signs or symptoms: fever (>38°C); localized pain or tenderness. A culture or non-culture based test that has a negative finding does not meet this criterion.

**c.** an abscess or other evidence of infection involving the deep incision that is detected on gross anatomical or histopathologic exam, or imaging test

\* The term attending physician for the purposes of application of the NHSN SSI criteria may be interpreted to mean the surgeon(s), infectious disease, other physician on the case, emergency physician, or physician's designee (nurse practitioner or physician's assistant).

COMMENTS: 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)
- 2. 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 incision for CBGB)

Table 2. Surveillance Period for Deep Incisional or Organ/Space SSI Following Selected NHSN Operative

30 DAY SURVEILLANCE			
Code	Operative Procedure	Code	Operative Procedure
AAA	Abdominal aortic aneurysm repair	LAM	Laminectomy
AMP	Limb amputation	LTP	Liver transplant
APPY	Appendix surgery	NECK	Neck surgery
AVSD	Shunt for dialysis	NEPH	Kidney surgery
BILI	Bile duct, liver or pancreatic surgery	OVRY	Ovarian surgery
CEA	Carotid endarterectomy	PRST	Prostate surgery
CHOL	Gallbladder surgery	REC	Rectal surgery
COLO	Colon surgery	SB	Small bowel surgery
CSEC	Cesarean section	SPLE	Spleen surgery
GAST	Gastric surgery	THOR	Thoracic surgery
HTP	Heart transplant	THUR	Thyroid and/or parathyroid surgery
HYST	Abdominal hysterectomy	VHYS	Vaginal hysterectomy
КТР	Kidney transplant	XLAP	Exploratory Laparotomy

90 DAY SURVEILLANCE		
Code	Operative Procedure	
BRST	Breast surgery	
CARD	Cardiac surgery	
CBGB	Coronary artery bypass graft with both chest and donor site incisions	
CBGC	Coronary artery bypass graft with chest incision only	
CRAN	Craniotomy	
FUSN	Spinal fusion	
FX	Open reduction of fracture	
HER	Herniorrhaphy	
HPRO	Hip prosthesis	
KPRO	Knee prosthesis	
PACE	Pacemaker surgery	
PVBY	Peripheral vascular bypass surgery	
VSHN	Ventricular shunt	

#### **ELEMENT VALUES**

1. Yes

2. No

## **ADDITIONAL INFORMATION**

- Must have occurred during the patient's initial stay at your hospital.
- A diagnosis of SSI must be documented in the patient's medical record.
- Consistent with the January 2019 CDC defined SSI.

#### **DATA SOURCE HIERARCHY GUIDE**

- 1. History and Physical
- 2. Physician's Notes
- 3. Progress Notes
- 4. Case Management/Social Services
- 5. Nursing Notes/Flow Sheet
- 6. Triage/Trauma Flow Sheet
- 7. Discharge Summary

Rule ID	Level	Message
19101	1	Value is not a valid menu option
19103	2	Element cannot be blank
19104	2	Element cannot be "Not Applicable"
19140	1	Single Entry Max exceeded

## **DEEP VEIN THROMBOSIS (DVT)**

#### DEFINITION

The formation, development, or existence of a blood clot or thrombus within the venous system, which may be coupled with inflammation.

#### **ELEMENT VALUES**

1. Yes

2. No

### Additional Information

- Must have occurred during the patient's initial stay at your hospital.
- The patient must be treated with anticoagulation therapy and/or placement of a vena cava filter or clipping of the vena cava.
- A diagnosis of Deep Vein Thrombosis (DVT) must be documented in the patient's medical record, which may be confirmed by venogram, ultrasound, or CT.

#### **DATA SOURCE HIERARCHY GUIDE**

- 1. History & Physical
- 2. Physician's Notes
- 3. Progress Notes
- 4. Case Management/Social Services
- 5. Nursing Notes/Flow Sheet
- 6. Triage/Trauma Flow Sheet
- 7. Discharge Summary

Rule ID	Level	Message	
19201	1	Value is not a valid menu option	
19203	2	Element cannot be blank	
19204	2	Element cannot be "Not Applicable"	
19240	1	Single Entry Max exceeded	

## DELIRIUM

#### DEFINITION

Acute onset of behaviors characterized by restlessness, illusions, and incoherence of thought and speech. Delirium can often be traced to one or more contributing factors, such as a severe or chronic medical illness, changes in your metabolic balance (such as low sodium), medication, infection, surgery, or alcohol or drug withdrawal.

#### OR

Patient tests positive after using an objective screening tool like the Confusion Assessment Method (CAM) or the Intensive Care Delirium Screening Checklist (ICDSC).

### OR

A diagnosis of delirium documented in the patient's medical record.

#### **ELEMENT VALUES**

1. Yes

2. No

#### **ADDITIONAL INFORMATION**

- Must have occurred during the patient's initial stay at your hospital.
- EXCLUDE: Patients whose delirium is due to alcohol withdrawal.

## **DATA SOURCE HIERARCHY GUIDE**

- 1. History & Physical
- 2. Physician's Notes
- 3. Progress Notes
- 4. Case Management/Social Services
- 5. Nursing Notes/Flow Sheet
- 6. Triage/Trauma Flow Sheet
- 7. Discharge Summary

Rule ID	Level	Message
21601	1	Value is not a valid menu option
21603	2	Element cannot be blank
21604	2	Element cannot be "Not Applicable"
21640	1	Single Entry Max exceeded

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.

## **ELEMENT VALUES**

1. Yes

2. No

## **ADDITIONAL INFORMATION**

- Must have occurred during the patient's initial stay at your hospital.
- Report as a hospital event if it is originally missed, leading to late recognition, a need for late intervention, and has threatened limb viability.
- A diagnosis of extremity compartment syndrome must be documented in the patient's medical record.

## DATA SOURCE HIERARCHY GUIDE

- 1. History & Physical
- 2. Physician's Notes
- 3. Progress Notes
- 4. Case Management/Social Services
- 5. Nursing Notes/Flow Sheet
- 6. Triage/Trauma Flow Sheet
- 7. Discharge Summary

Rule ID	Level	Message
19301	1	Value is not a valid menu option
19303	2	Element cannot be blank
19304	2	Element cannot be "Not Applicable"
19340	1	Single Entry Max exceeded

## **MYOCARDIAL INFARCTION (MI)**

#### DEFINITION

An acute myocardial infarction must be noted with documentation of ECG changes indicative of an acute myocardial infarction (MI)

#### AND

New elevation in troponin greater than three times upper level of the reference range in the setting of suspected myocardial ischemia

#### AND

Physician diagnosis of an acute myocardial infarction that occurred subsequent to arrival at your center

#### **ELEMENT VALUES**

1. Yes

2. No

#### Additional Information

• Must have occurred during the patient's initial stay at your hospital.

## **DATA SOURCE HIERARCHY GUIDE**

- 1. History & Physical
- 2. Physician's Notes
- 3. Progress Notes
- 4. Case Management/Social Services
- 5. Nursing Notes/Flow Sheet
- 6. Triage/Trauma Flow Sheet
- 7. Discharge Summary

Rule ID	Level	Message
19401	1	Value is not a valid menu option
19403	2	Element cannot be blank
19404	2	Element cannot be "Not Applicable"
19440	1	Single Entry Max exceeded

Must meet the following criteria:

Infection occurs within 30 or 90 days after the NHSN operative procedure (where day 1 = the procedure date) according to the list in Table 2

## AND

infection involves any part of the body deeper than the fascial/muscle layers, that is opened or manipulated during the operative procedure

## AND

patient has at least one of the following:

- **a.** purulent drainage from a drain that is placed into the organ/space (e.g., closed suction drainage system, open drain, T-tube drain, CT guided drainage)
- **b.** organisms are identified from fluid or tissue in the organ/space by a culture or non-culture based microbiologic testing method which is performed for purposes of clinical diagnosis or treatment (e.g., not Active Surveillance Culture/Testing (ASC/AST).
- **c.** an abscess or other evidence of infection involving the organ/space that is detected on gross anatomical or histopathologic exam, or imaging test evidence suggestive of infection.

## AND

meets at least one criterion for a specific organ/space infection site listed in Table 3. These criteria are found in the Surveillance Definitions for Specific Types of Infections chapter.

## Table 2. Surveillance Period for Deep Incisional or Organ/Space SSI Following Selected NHSN

## **Operative Procedure Categories.** Day 1 = the date of the procedure.

	30 DAY SURVEILLANCE				
Code	Operative Procedure	Code	Operative Procedure		
AAA	Abdominal aortic aneurysm repair	LAM	Laminectomy		
AMP	Limb amputation	LTP	Liver transplant		
APPY	Appendix surgery	NECK	Neck surgery		
AVSD	Shunt for dialysis	NEPH	Kidney surgery		
BILI	Bile duct, liver or pancreatic surgery	OVRY	Ovarian surgery		
CEA	Carotid endarterectomy	PRST	Prostate surgery		
CHOL	Gallbladder surgery	REC	Rectal surgery		
COLO	Colon surgery	SB	Small bowel surgery		
CSEC	Cesarean section	SPLE	Spleen surgery		
GAST	Gastric surgery	THOR	Thoracic surgery		
HTP	Heart transplant	THUR	Thyroid and/or parathyroid surgery		
HYST	Abdominal hysterectomy	VHYS	Vaginal hysterectomy		
КТР	Kidney transplant	XLAP	Exploratory Laparotomy		

## **HOSPITAL EVENTS**

90 DAY SURVEILLANCE		
Code	Operative Procedure	
BRST	Breast surgery	
CARD	Cardiac surgery	
CBGB	Coronary artery bypass graft with both chest and donor site incisions	
CBGC	Coronary artery bypass graft with chest incision only	
CRAN	Craniotomy	
FUSN	Spinal fusion	
FX	Open reduction of fracture	
HER	Herniorrhaphy	
HPRO	Hip prosthesis	
KPRO	Knee prosthesis	
PACE	Pacemaker surgery	
PVBY	Peripheral vascular bypass surgery	
VSHN	Ventricular shunt	

## Table 3. Specific Sites of an Organ/Space SSI.

Code	SITE	Code	SITE
BONE	Osteomyelitis	MED	Mediastinitis
BRST	Breast abscess or mastitis	MEN	Meningitis or ventriculitis
CARD	Myocarditis or pericarditis	ORAL	Oral cavity infection (mouth, tongue, or gums)
DISC	Disc space infection	OREP	Deep pelvic tissue infection or other infection of the male or female re- productive tract
EAR	Ear, mastoid infection	PJI	Periprosthetic Joint Infection
EMET	Endometritis	SA	Spinal abscess/infection
ENDO	Endocarditis	SINU	Sinusitis
GIT	Gastrointestional (GI) tract infec- tion	UR	Upper respiratory tract, pharyngitis, laryngitis, epiglottitis
IAB	Intraabdominal infection, not specified elsewhere	USI	Urinary System Infection
IC	Intracranial infection	VASC	Arterial or venus infection
JNT	Joint or bursa infection	VCUF	Vaginal cuff infection
LUNG	Other infection of the lower respiratory tract		

## **ELEMENT VALUES**

1. Yes

2. No

## **ADDITIONAL INFORMATION**

• Must have occurred during the patient's initial stay at your hospital.

A diagnosis of SSI must be documented in the patient's

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medical record.

• Consistent with the January 2019 CDC defined SSI.

## **DATA SOURCE HIERARCHY GUIDE**

- 1. History & Physical
- 2. Physician's Notes
- 3. Progress Notes
- 4. Case Management/Social Services
- 5. Nursing Notes/Flow Sheet
- 6. Triage/Trauma Flow Sheet
- 7. Discharge Summary

Rule ID	Level	Message
19501	1	Value is not a valid menu option
19503	2	Element cannot be blank
19504	2	Element cannot be "Not Applicable"
19540	1	Single Entry Max exceeded

## **OSTEOMYELITIS**

## DEFINITION

Osteomyelitis must meet at least one of the following criteria:

- 1. Patient has organisms identified from bone by culture or non-culture based microbiologic testing method which is performed for purposes of clinical diagnosis and treatment (e.g., not Active Surveillance Culture/Testing (ASC/AST)).
- 2. Patient has evidence of osteomyelitis on gross anatomic or histopathologic exam.
- 3. Patient has at least two of the following localized signs or symptoms: fever (>38.0°C), swelling\*, pain or tenderness\*, heat\*, or drainage\*

## And at least one of the following:

- organisms identified from blood by culture or non-culture based microbiologic testing a. method which is performed for purposes of clinical diagnosis and treatment (e.g., not Active Surveillance Culture/Testing (ASC/AST)) in a patient with imaging test evidence suggestive of infection (e.g., x-ray, CT scan, MRI, radiolabel scan [gallium, technetium, etc.]), which if equivocal is supported by clinical correlation (i.e., physician documentation of antimicrobial treatment for osteomyelitis).
- b. imaging test evidence suggestive of infection (e.g., x-ray, CT scan, MRI, radiolabel scan [gallium, technetium, etc.]), which if equivocal is supported by clinical correlation (i.e., physician documentation of antimicrobial treatment for osteomyelitis).
- \* With no other recognized cause

## **ELEMENT VALUES**

1. Yes

2. No

## **ADDITIONAL INFORMATION**

- Must have occurred during the patient's initial stay at your hospital. •
- A diagnosis of osteomyelitis must be documented in the patient's medical record. ٠
- Consistent with the January 2016 CDC definition of Bone and Joint Infection.

## **DATA SOURCE HIERARCHY GUIDE**

- History & Physical
- 2. Physician's Notes
- 3. Progress Notes
- 4. Case Management/Social Services
- 5. Nursing Notes/Flow Sheet
- 6. Triage/Trauma Flow Sheet
- 7. Discharge Summary

Rule ID	Level	Message	
19601	1	Value is not a valid menu option	
19603	2	Element cannot be blank	
19604	2	Element cannot be "Not Applicable"	
19640	1	Single Entry Max exceeded	
<b>HOSPITAL EVENTS</b>		PAGE 113	

## **PULMONARY EMBOLISM (PE)**

#### DEFINITION

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.

### **ELEMENT VALUES**

1. Yes

2. No

## Additional Information

- Must have occurred during the patient's initial stay at your hospital.
- 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 and/or a diagnosis of PE is documented in the patient's medical record.
- Exclude subsegmental PEs.

## **DATA SOURCE HIERARCHY GUIDE**

- 1. History & Physical
- 2. Physician's Notes
- 3. Progress Notes
- 4. Case Management/Social Services
- 5. Nursing Notes/Flow Sheet
- 6. Triage/Trauma Flow Sheet
- 7. Discharge Summary

Rule ID	Level	Message	
19701	1	Value is not a valid menu option	
19703	2	Element cannot be blank	
19704	2	Element cannot be "Not Applicable"	
19740	1	Single Entry Max exceeded	

## **PRESSURE ULCER**

#### DEFINITION

A localized injury to the skin and/or underlying tissue usually over a bony prominence, as a result of pressure, or pressure in combination with shear. A number of contributing or confounding factors are also associated with pressure ulcers; the significance of these factors is yet to be elucidated. Equivalent to NPUAP Stages II-IV, Unstageable/Unclassified, and Suspected Deep Tissue Injury.

#### **ELEMENT VALUES**

1. Yes

2. No

#### **ADDITIONAL INFORMATION**

- Must have occurred during the patient's initial stay at your hospital.
- Pressure ulcer documentation must be in the patient's medical record.
- Consistent with the NPUAP 2014.

## **DATA SOURCE HIERARCHY GUIDE**

- 1. History & Physical
- 2. Physician's Notes
- 3. Progress Notes
- 4. Case Management/Social Services
- 5. Nursing Notes/Flow Sheet
- 6. Triage/Trauma Flow Sheet
- 7. Discharge Summary

Rule ID	Level	Message	
19801	1	Value is not a valid menu option	
19803	2	Element cannot be blank	
19804	2	Element cannot be "Not Applicable"	
19840	1	Single Entry Max exceeded	

## **SEVERE SEPSIS**

#### DEFINITION

Severe sepsis: sepsis plus organ dysfunction, hypotension (low blood pressure), or hypoperfusion (insufficient blood flow) to 1 or more organs.

Septic shock: sepsis with persisting arterial hypotension or hypoperfusion despite adequate fluid resuscitation.

#### **ELEMENT VALUES**

1. Yes

2. No

#### **ADDITIONAL INFORMATION**

- Must have occurred during the patient's initial stay at your hospital.
- A diagnosis of sepsis must be documented in the patient's medical record.
- Consistent with the American College of Chest Physicians and the Society of Critical Care Medicine October 2010.

### DATA SOURCE HIERARCHY GUIDE

- 1. History & Physical
- 2. Physician's Notes
- 3. Progress Notes
- 4. Case Management/Social Services
- 5. Nursing Notes/Flow Sheet
- 6. Triage/Trauma Flow Sheet
- 7. Discharge Summary

Rule ID	Level	Message	
19901	1	Value is not a valid menu option	
19903	2	Element cannot be blank	
19904	2	Element cannot be "Not Applicable"	
19940	1	Single Entry Max exceeded	

## STROKE/CVA

## DEFINITION

A focal or global neurological deficit of rapid onset and NOT present on admission caused by a clot obstructing the flow of blood flow to the brain (ischemic stroke). Or by a blood vessel rupturing and preventing blood flow to the brain (hemorrhagic stroke). Or a transient ischemic attack which is temporary caused by a temporary clot. The patient must have at least one of the following symptoms:

- Change in level of consciousness
- Hemiplegia
- Hemiparesis
- Numbness or sensory loss affecting on side of the body
- Dysphasia or aphasia
- Hemianopia
- Amaurosis fugax
- Other neurological signs or symptoms consistent with stroke

## AND

Duration of neurological deficit ≥24 h

#### OR

 Duration of deficit <24 h, if neuroimaging (MR, CT, or cerebral angiography) documents a new hemorrhage or infarct consistent with stroke, or therapeutic intervention(s) were performed for stroke, or the neurological deficit results in death

## AND

• No other readily identifiable non-stroke cause, e.g., progression of existing traumatic brain injury, seizure, tumor, metabolic or pharmacologic etiologies, is identified

## AND

• Diagnosis is confirmed by neurology or neurosurgical specialist or neuroimaging procedure (MR, CT, angiography) or lumbar puncture (CSF demonstrating intracranial hemorrhage that was not present on admission).

## **ELEMENT VALUES**

1. Yes

2. No

## Additional Information

- Must have occurred during the patient's initial stay at your hospital.
- A diagnosis of stroke/CVA must be documented in the patient's medical record.
- Although the neurologic deficit must not present on admission, risk factors predisposing to stroke (e.g., blunt cerebrovascular injury, dysrhythmia) may be present on admission.

## **DATA SOURCE HIERARCHY GUIDE**

- 1. History & Physical
- 2. Physician's Notes
- 3. Progress Notes
- 4. Case Management/Social Services
- 5. Nursing Notes/Flow Sheet
- 6. Triage/Trauma Flow Sheet
- 7. Discharge Summary

Rule ID	Level	Message	
20001	1	Value is not a valid menu option	
20003	2	Element cannot be blank	
20004	2	Element cannot be "Not Applicable"	
20040	1	Single Entry Max exceeded	

Must meet the following criteria:

Infection occurs within 30 days after any NHSN operative procedure (where day 1 = the procedure date)

## AND

involves only skin and subcutaneous tissue of the incision

## AND

patient has at least one of the following:

- **a**. purulent drainage from the superficial incision.
- **b**. organisms identified from an aseptically-obtained specimen from the superficial incision or sub cutaneous tissue by a culture or non-culture based microbiologic testing method which is performed for purposes of clinical diagnosis or treatment (e.g., not Active Surveillance Culture/Testing (ASC/AST)).
- **c.** superficial incision that is deliberately opened by a surgeon, attending physician\*\* or other designee and culture or non-culture based testing is not performed.

## AND

patient has at least one of the following signs or symptoms: pain or tenderness; localized swelling; erythema; or heat. A culture or non-culture based test that has a negative finding does not meet this criterion.

**d.** diagnosis of a superficial incisional SSI by the surgeon or attending physician\*\* or other designee.

\*The term attending physician for the purposes of application of the NHSN SSI criteria may be interpreted to mean the surgeon(s), infectious disease, other physician on the case, emergency physician, or physician's designee (nurse practitioner or physician's assistant).

COMMENTS: There are two specific types of superficial incisional SSIs:

- Superficial Incisional Primary (SIP) a superficial incisional SSI that is identified in the 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)
- 2. Superficial Incisional Secondary (SIS) a superficial 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 incision for CBGB)

## **ELEMENT VALUES**

1. Yes

2. No

## **ADDITIONAL INFORMATION**

- Must have occurred during the patient's initial stay at your hospital.
- A diagnosis of SSI must be documented in the patient's medical record.
- Consistent with the January 2019 CDC defined SSI.

## **DATA SOURCE HIERARCHY GUIDE**

- 1. History & Physical
- 2. Physician's Notes
- 3. Progress Notes
- 4. Case Management/Social Services
- 5. Nursing Notes/Flow Sheet
- 6. Triage/Trauma Flow Sheet
- 7. Discharge Summary

Rule ID	Level	Message	
20101	1	Value is not a valid menu option	
20103	2	lement cannot be blank	
20104	2	Element cannot be "Not Applicable"	
20140	1	Single Entry Max exceeded	

## **UNPLANNED ADMISSION TO ICU**

#### DEFINITION

Patients admitted to the ICU after initial transfer to the floor, and/or patients with an unplanned return to the ICU after initial ICU discharge.

#### **ELEMENT VALUES**

1. Yes

2. No

### Additional Information

- Must have occurred during the patient's initial stay at your hospital.
- EXCLUDE: Patients in which ICU care was required for postoperative care of a planned surgical procedure.

#### **DATA SOURCE HIERARCHY GUIDE**

- 1. History & Physical
- 2. Physician's Notes
- 3. Progress Notes
- 4. Case Management/Social Services
- 5. Nursing Notes/Flow Sheet
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#### **Associated Edit Checks**

Rule ID	Level	Message	
20201	1	Value is not a valid menu option	
20203	2	Element cannot be blank	
20204	2	Element cannot be "Not Applicable"	
20240	1	Single Entry Max exceeded	

## **UNPLANNED INTUBATION**

#### DEFINITION

Patient requires placement of an endotracheal tube and mechanical or assisted ventilation manifested by severe respiratory distress, hypoxia, hypercarbia, or respiratory acidosis.

#### **ELEMENT VALUES**

1. Yes

2. No

### **ADDITIONAL INFORMATION**

- Must have occurred during the patient's initial stay at your hospital.
- For patients who were intubated in the field or emergency department, or those intubated for surgery, an unplanned intubation occurs if they require reintubation > 24 hours after they were extubated.

#### **DATA SOURCE HIERARCHY GUIDE**

- 1. History & Physical
- 2. Physician's Notes
- 3. Progress Notes
- 4. Case Management/Social Services
- 5. Nursing Notes/Flow Sheet
- 6. Triage/Trauma Flow Sheet
- 7. Discharge Summary

Rule ID	Level	Message	
20301	1	Value is not a valid menu option	
20303	2	Element cannot be blank	
20304	2	Element cannot be "Not Applicable"	
20340	1	Single Entry Max exceeded	

## UNPLANNED VISIT TO THE OPERATING ROOM

#### DEFINITION

Patients with an unplanned operative procedure OR patients returned to the operating room after initial operative management of a related previous procedure.

#### **ELEMENT VALUES**

1. Yes

2. No

#### **ADDITIONAL INFORMATION**

- Must have occurred during the patient's initial stay at your hospital.
- EXCLUDE: Pre-planned, staged and/or procedures for incidental findings.
- EXCLUDE: Operative management related to a procedure that was initially performed prior to arrival at your center.

#### **DATA SOURCE HIERARCHY GUIDE**

- 1. History & Physical
- 2. Physician's Notes
- 3. Progress Notes
- 4. Case Management/Social Services
- 5. Nursing Notes/Flow Sheet
- 6. Triage/Trauma Flow Sheet
- 7. Discharge Summary

Rule ID	Level	Message	
21701	1	Value is not a valid menu option	
21703	2	Element cannot be blank	
21704	2	Element cannot be "Not Applicable"	
21740	1	Single Entry Max exceeded	

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.

VAP Algorithm (PNU2 Bacterial or Filamentous Fungal Pathogens):					
IMAGING TEST EVIDENCE	signs/symptoms	LABORATORY			
Two or more serial chest imaging test results with at least <u>one</u> of the following:	At least <u>one</u> of the following:	At least <u>one</u> of the following:			
<ul> <li>New and persistent or progressive and persistent</li> <li>Infiltrate</li> </ul>	<ul> <li>Fever (&gt;38°C or &gt;100.4°F)</li> <li>Leukopenia (&lt;4000 WBC/mm³) or leukocytosis (≥12,000 WBC/mm³)</li> </ul>	<ul> <li>Organism identified from blood</li> <li>Organism identified from pleural fluid</li> </ul>			
<ul> <li>Consolidation</li> <li>Cavitation</li> <li>Pneumatoceles, in infants ≤1-year-old</li> </ul>	<ul> <li>For adults ≥70 years old, altered mental status with no other recognized cause</li> <li>AND at least <u>one</u> of the following:</li> </ul>	• Positive quantitative culture or corresponding semi-quantitative culture result from minimally- contaminated LRT specimen (specifically, BAL, protected specimen brushing or endotracheal aspirate)			
<b>NOTE:</b> In patients <i>without</i> underlying pulmonary or cardiac disease (for example: respiratory distress syndrome, bronchopulmonary dysplasia, pulmonary edema, or chronic obstructive pulmonary disease), <u>one definitive</u> chest imaging test result is	<ul> <li>New onset of purulent sputum or change in character of sputum, or increased respiratory secretions, or increased suctioning requirements</li> <li>New onset or worsening cough, or dyspnea, or tachypnea</li> <li>Rales or bronchial breath sounds</li> </ul>	<ul> <li>≥5% BAL-obtained cells contain intracellular bacteria on direct microscopic exam (for example: Gram's stain)</li> <li>Positive quantitative culture or corresponding semi-quantitative culture result of lung tissue</li> <li>Histopathologic exam shows at least <u>one</u> of the following evidences of</li> </ul>			
acceptable.	<ul> <li>Worsening gas exchange (for example: O2 desaturations [for example: PaO2/FiO2 &lt;240], increased oxygen requirements, or increased ventilator demand)</li> </ul>	<ul> <li>pneumonia:         <ul> <li>Abscess formation or foci of consolidation with intense PMN accumulation in bronchioles and alveoli</li> <li>Evidence of lung parenchyma invasion by fungal hyphae or pseudohyphae</li> </ul> </li> </ul>			

VAP Algorithm (PNU3 Immunocompromised Patients):					
IMAGING TEST EVIDENCE	SIGNS/SYMPTOMS	LABORATORY			
Two or more serial chest im- aging test results with at least <u>one</u> of the following:	Patient who is immunocompromised (see definition in footnote) has at least <u>one</u> of the following:	At least <u>one</u> of the following:			
<ul> <li>New and persistent or progressive and persistent</li> <li>Infiltrate</li> <li>Consolidation</li> <li>Cavitation</li> <li>Cavitation</li> <li>Pneumatoceles, in infants ≤1-year-old</li> <li>NOTE: In patients without underlying pulmonary or cardiac disease (for example: respiratory distress syndrome, bronchopulmonary dysplasia, pulmonary edema, or chronic obstructive pulmonary disease), <u>one definitive</u> chest imaging test result is acceptable.</li> </ul>	<ul> <li>Fever (&gt;38°C or &gt;100.4°F)</li> <li>For adults ≥70 years old, altered mental status with no other recognized cause</li> <li>New onset of purulent sputum or change in character of sputum, or increased respiratory secretions, or increased suctioning requirements</li> <li>New onset or worsening cough, or dyspnea, or tachypnea</li> <li>Rales or bronchial breath sounds</li> <li>Worsening gas exchange (for example: O2 desaturations [for example: PaO2/ FiO2&lt;240], increased oxygen requirements, or increased ventilator demand)</li> <li>Hemoptysis</li> <li>Pleuritic chest pain</li> </ul>	<ul> <li>Identification of matching <i>Candida</i> spp. from blood and one of the following: sputum, endotracheal aspirate, BAL or protected specimen brushing.</li> <li>Evidence of fungi from minimally-contaminated LRT specimen (e.g., BAL or protected specimen brushing) from one of the following: <ul> <li>Direct microscopic exam</li> <li>Positive culture of fungi</li> <li>Non-culture diagnostic laboratory test</li> </ul> </li> <li>OR <ul> <li>Any of the following from:</li> </ul> </li> </ul>			

VAP Algorithm ALT	ERNATE CRITERIA <i>(PNU1),</i> for infant's ≤ 1 year old <i>:</i>	
IMAGING TEST EVIDENCE	SIGNS/SYMPTOMS/LABORATORY	
Two or more serial chest imaging test results with at least <u>one</u> of the following:	Worsening gas exchange (for example:2 desaturations [for	
<ul> <li>New and persistent or progressive and persistent</li> </ul>	example pulse oximetry <94%], increased oxygen requirements, or increased ventilator demand)	
Infiltrate	And at least <i>three</i> of the following:	
Consolidation	Temperature instability	
Cavitation	<ul> <li>Leukopenia (≤4000 WBC/mm3) or leukocytosis (&gt;15,000 WBC/mm3) and left shift (&gt;10% band forms)</li> </ul>	
<ul> <li>Pneumatoceles, in infants ≤1-year-old</li> </ul>	<ul> <li>New onset of purulent sputum or change in character of sputum, or increased respiratory secretions or increased suctioning requirements</li> </ul>	
<b>NOTE:</b> In patients <i>without</i> underlying pulmonary or cardiac disease (for example: respiratory distress syndrome,	<ul> <li>Apnea, tachypnea, nasal flaring with retraction of chest wall or nasal flaring with grunting</li> <li>Wheezing, rales, or rhonchi</li> </ul>	
bronchopulmonary dysplasia,	• Cough	
pulmonary edema, or chronic obstructive pulmonary disease), one definitive chest imaging test result is acceptable.	<ul> <li>Bradycardia (&lt;100 beats/min) or tachycardia (&gt;170 beats/min)</li> </ul>	
VAP Algorithm ALTERNATE	CRITERIA ( <i>PNU1</i> ), for children > 1 year old or $\leq$ 12 years old:	
IMAGING TEST EVIDENCE	SIGNIS/SYMDTOMS/LABODATODY	

IMAGING TEST EVIDENCE	SIGNS/SYMPTOMS/LABORATORY			
Two or more serial chest imaging test results with at least <u>one</u> of the following:				
<ul> <li>New and persistent or progressive and persistent</li> <li>Infiltrate</li> <li>Consolidation</li> <li>Cavitation</li> <li>Cavitation</li> <li>Pneumatoceles, in infants ≤1-year-old</li> <li>NOTE: In patients without underlying pulmonary or cardiac disease (for example: respiratory distress syndrome, bronchopulmonary dysplasia, pulmonary edema, or chronic obstructive pulmonary disease), one definitive chest imaging test result is acceptable.</li> </ul>	<ul> <li>ALTERNATE CRITERIA, for child &gt;1 year old or ≤12 years old, at least <u>three</u> of the following:</li> <li>Fever (&gt;38.0°C or &gt;100.4°F) or hypothermia (&lt;36.0°C or &lt;96.8°F)</li> <li>Leukopenia (≤4000 WBC/mm3) or leukocytosis (≥15,000 WBC/mm3)</li> <li>New onset of purulent sputum or change in character of sputum, or increased respiratory secretions, or increased suctioning requirements</li> <li>New onset or worsening cough, or dyspnea, apnea, or tachypnea.</li> <li>Rales or bronchial breath sounds</li> <li>Worsening gas exchange (for example: O2 desaturations [for example pulse oximetry &lt;94%], increased oxygen requirements, or increased ventilator demand)</li> </ul>			

#### **HOSPITAL EVENTS**

#### **ELEMENT VALUES**

1. Yes

2. No

#### **ADDITIONAL INFORMATION**

- Must have occurred during the patient's initial stay at your hospital.
- A diagnosis of pneumonia must be documented in the patient's medical record.
- Consistent with the January 2019 CDC defined VAP.

#### DATA SOURCE HIERARCHY GUIDE

- 1. History & Physical
- 2. Physician's Notes
- 3. Progress Notes
- 4. Case Management/Social Services
- 5. Nursing Notes/Flow Sheet
- 6. Triage/Trauma Flow Sheet
- 7. Discharge Summary

Rule ID	Level	Message
20501	1	Value is not a valid menu option
20503	2	Element cannot be blank
20504	2	Element cannot be "Not Applicable"
20540	1	Single Entry Max exceeded

# **OUTCOME INFORMATION**

### TOTAL ICU LENGTH OF STAY

#### DEFINITION

The cumulative amount of time spent in the ICU. Each partial or full day should be measured as one calendar day.

#### **ELEMENT VALUES**

• Relevant values for data element

#### **ADDITIONAL INFORMATION**

- Reported in full day increments with any partial calendar day counted as a full calendar day.
- The calculation assumes that the date and time of starting and stopping an ICU episode are recorded in the patient's chart.
- The null value "Not Known/Not Recorded" is reported if any dates are missing.
- If patient has multiple ICU episodes on the same calendar day, count that day as one calendar day.
- At no time should the ICU LOS exceed the hospital LOS.
- The null value "Not Applicable" is reported if the patient had no ICU days according to the above definition.

Example #1	Start Date	Start Time	Stop Date	Stop Time	LOS
Α.	01/01/11	01:00	01/01/11	04:00	1 day (one calendar day)
В.	01/01/11	01:00	01/01/11	04:00	
	01/01/11	16:00	01/01/11	18:00	1 day (2 episodes within one calendar day)
С.	01/01/11	01:00	01/01/11	04:00	
	01/02/11	16:00	01/02/11	18:00	2 days (episodes on 2 separate calendar days)
D.	01/01/11	01:00	01/01/11	16:00	
	01/02/11	09:00	01/02/11	18:00	2 days (episodes on 2 separate calendar days)
Ε.	01/01/11	01:00	01/01/11	16:00	
	01/02/11	09:00	01/02/11	21:00	2 days (episodes on 2 separate calendar days)
F.	01/01/11	Unknown	01/01/11	16:00	1 day
G.	01/01/11	Unknown	01/02/11	16:00	2 days (patient was in ICU on 2 separate calendar days)
Н.	01/01/11	Unknown	01/02/11	16:00	
	01/02/11	18:00	01/02/11	Unknown	2 days (patient was in ICU on 2 separate calendar days)
Ι.	01/01/11	Unknown	01/02/11	16:00	
	01/02/11	18:00	01/02/11	20:00	2 days (patient was in ICU on 2 separate calendar days)
J.	01/01/11	Unknown	01/02/11	16:00	
	01/03/11	18:00	01/03/11	20:00	3 days (patient was in ICU on 3 separate calendar days)
К.	Unknown	Unknown	01/02/11	16:00	
	01/03/11	18:00	01/03/11	20:00	Unknown (can't compute total)

#### **OUTCOME INFORMATION**

### **DATA SOURCE HIERARCHY GUIDE**

- 1. ICU Flow Sheet
- 2. Nursing Notes/Flow Sheet

Rule ID	Level	Message
7501	1	Invalid value
7502	2	Element cannot be blank
7503	2	<i>Total ICU Length of Stay</i> is greater than the difference between <i>ED/Hospital Arrival Date</i> and <i>Hospital Discharge Date</i>
7504	3	The value is above 60
7505	2	The value submitted falls outside the valid range of 1-575
7540	1	Single Entry Max exceeded

### **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.

#### **ELEMENT VALUES**

• Relevant values for data element

#### **ADDITIONAL INFORMATION**

- Excludes mechanical ventilation time associated with OR procedures.
- Non-invasive means of ventilatory support (CPAP or BIPAP) should not be considered in the calculation of ventilator days.
- Reported in full day increments with any partial calendar day counted as a full calendar day.
- The calculation assumes that the date and time of starting and stopping ventilator episode are recorded in the patient's chart.
- The null value "Not Known/Not Recorded" is reported if any dates are missing.
- At no time should the *Total Ventilator Days* exceed the hospital LOS.
- The null value "Not Applicable" is reported if the patient was not on the ventilator according to the above definition.

Example #1	Start Date	Start Time	Stop Date	Stop Time	LOS
Α.	01/01/11	01:00	01/01/11	04:00	1 day (one calendar day)
В.	01/01/11	01:00	01/01/11	04:00	
	01/01/11	16:00	01/01/11	18:00	1 day (2 episodes within one calendar day)
С.	01/01/11	01:00	01/01/11	04:00	
	01/02/11	16:00	01/02/11	18:00	2 days (episodes on 2 separate calendar days)
D.	01/01/11	01:00	01/01/11	16:00	
	01/02/11	09:00	01/02/11	18:00	2 days (episodes on 2 separate calendar days)
Ε.	01/01/11	01:00	01/01/11	16:00	
	01/02/11	09:00	01/02/11	21:00	2 days (episodes on 2 separate calendar days)
<b>F.</b>	01/01/11	Unknown	01/01/11	16:00	1 day
G.	01/01/11	Unknown	01/02/11	16:00	2 days (patient was in ICU on 2 separate calendar days)
Н.	01/01/11	Unknown	01/02/11	16:00	
	01/02/11	18:00	01/02/11	Unknown	2 days (patient was in ICU on 2 separate calendar days)
Ι.	01/01/11	Unknown	01/02/11	16:00	
	01/02/11	18:00	01/02/11	20:00	2 days (patient was in ICU on 2 separate calendar days)
J.	01/01/11	Unknown	01/02/11	16:00	
	01/03/11	18:00	01/03/11	20:00	3 days (patient was in ICU on 3 separate calendar days)

#### **OUTCOME INFORMATION**

#### **DATA SOURCE HIERARCHY GUIDE**

- 1. Respiratory Therapy Notes/Flow Sheet
- 2. ICU Flow Sheet
- 3. Progress Notes

Rule ID	Level	Message
7601	1	Invalid value
7602	2	Element cannot be blank
7603	2	<i>Total Ventilator Days</i> is greater than the difference between <i>ED/Hospital Arrival Date</i> and <i>Hospital Discharge Date</i>
7604	3	The value is above 60
7605	2	The value submitted falls outside the valid range of 1-575
7640	1	Single Entry Max exceeded

### DEFINITION

The disposition of the patient when discharged from the hospital.

### **ELEMENT 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 or discontinued care
- 5. Deceased/Expired
- 6. Discharged to home or self-care (routine discharge)
- 7. Discharged/Transferred to Skilled Nursing Facility (SNF)

### **ADDITIONAL INFORMATION**

- 8. Discharged/Transferred to hospice care
- 10. Discharged/Transferred to court/law enforcement.
- 11. Discharged/Transferred to inpatient rehab or designated unit
- 12. Discharged/Transferred to Long Term Care Hospital (LTCH)
- 13. Discharged/Transferred to a psychiatric hospital or psychiatric distinct part unit of a hospital
- 14. Discharged/Transferred to another type of institution not defined elsewhere
- *Element Value* "6. Home" refers to the patient's current place of residence (e.g., Prison, Child Protective Services etc.).
- Element Values based upon UB-04 disposition coding.
- Disposition to any other non-medical facility should be reported as *Element Value* "6. Discharged to home or self-care (routine discharge)"
- Disposition to any other medical facility should be reported as *Element Value* "14. Discharged/Transferred to another type of institution not defined elsewhere"
- The null value "Not Applicable" is reported if *ED Discharge Disposition* is reported as *Element Value* 4, 5, 6, 9, 10, or 11.
- Hospital Discharge Dispositions which were retired greater than 2 years before the current NTDS version are no longer listed under *Element Values* above, which is why there are numbering gaps. Refer to the NTDS Change Log for a full list of retired Hospital Discharge Dispositions.
- If multiple orders were written, report the final disposition order.

### DATA SOURCE HIERARCHY GUIDE

- 1. Physician Order
- 2. Discharge Instruction
- 3. Nursing Notes/Flow Sheet
- 4. Case Management/Social Services Notes
- 5. Discharge Summary

#### **Associated Edit Checks**

Rule ID	Level	Message
7901	1	Value is not a valid menu option
7902	2	Element cannot be blank
7907	2	Element must be and can only be "Not Applicable" when <i>ED Discharge Disposition</i> is 4, 5, 6, 9, 10, or 11
7909	2	Element cannot be "Not Known/Not Recorded"
7940	1	Single Entry Max exceeded

#### **OUTCOME INFORMATION**

### **HOSPITAL DISCHARGE DATE**

#### DEFINITION

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

#### **ELEMENT VALUES**

• Relevant value for data element

#### **ADDITIONAL INFORMATION**

- Reported as YYYY-MM-DD.
- The null value "Not Applicable" is reported if *ED Discharge Disposition* is 4, 5, 6, 9, 10, or 11.
- If *Hospital Discharge Disposition* is *Element Value* "5. Deceased/Expired," then *Hospital Discharge Date* is the date of death as indicated on the patient's death certificate.

#### **DATA SOURCE HIERARCHY GUIDE**

- 1. Physician Order
- 2. Discharge Instruction
- 3. Nursing Notes/Flow Sheet
- 4. Case Management/Social Services Notes
- 5. Discharge Summary

Rule ID	Level	Message
7701	1	Date is not valid
7702	1	Date out of range
7703	2	Element cannot be blank
7707	2	Hospital Discharge Date cannot be earlier than ED/Hospital Arrival Date
7708	2	Hospital Discharge Date cannot be earlier than ED Discharge Date
7711	3	Hospital Discharge Date occurs more than 365 days after ED/Hospital Arrival Date
7713	2	Element must be and can only be "Not Applicable" when <i>Hospital Discharge</i> <i>Disposition</i> is "Not Applicable"
7714	3	Hospital Discharge Date is earlier than Injury Incident Date
7715	2	Hospital Discharge Date is earlier than Hospital Procedure Start Date
7716	2	Hospital Discharge Date is earlier than Cerebral Monitor Date
7717	2	Hospital Discharge Date is earlier than Venous Thromboembolism Prophylaxis Date
7718	2	Hospital Discharge Date is earlier than Angiography Date
7719	2	Hospital Discharge Date is earlier than Surgery for Hemorrhage Control Date
7720	2	Hospital Discharge Date cannot be earlier than Withdrawal of Life Supporting Treatment Date
7721	3	Hospital Discharge Date is earlier than Antibiotic Therapy Date
7740	1	Single Entry Max exceeded

### **HOSPITAL DISCHARGE TIME**

#### DEFINITION

The time the order was written for the patient to be discharged from the hospital.

#### **ELEMENT VALUES**

• Relevant value for data element

#### **ADDITIONAL INFORMATION**

- Reported as HHMM military time.
- The null value "Not Applicable" is reported if *ED Discharge Disposition* is 4, 5, 6, 9, 10, or 11.
- If *Hospital Discharge Disposition* is *Element Value* "5. Deceased/Expired," then *Hospital Discharge Time* is the time of death as indicated on the patient's death certificate.

#### **DATA SOURCE HIERARCHY GUIDE**

- 1. Physician Order
- 2. Discharge Instruction
- 3. Nursing Notes/Flow Sheet
- 4. Case Management/Social Services Notes
- 5. Discharge Summary

ASSOCIATED EDIT CHECKS				
Rule ID	Level	Message		
7801	1	Time is not valid		
7802	1	Time out of range		
7803	2	Element cannot be blank		
7807	2	Hospital Discharge Time cannot be earlier than ED/Hospital Arrival Time		
7808	2	Hospital Discharge Time cannot be earlier than or equal to ED Discharge Time		
7810	2	Element must be and can only be "Not Applicable" when <i>Hospital Discharge Date</i> is "Not Applicable"		
7811	2	Element must be "Not Known/Not Recorded" when <i>Hospital Discharge Date</i> is "Not Known/Not Recorded"		
7812	3	Hospital Discharge Time is earlier than Injury Incident Time		
7813	2	Hospital Discharge Time is earlier than Hospital Procedure Start Time		
7814	2	Hospital Discharge Time is earlier than Cerebral Monitor Time		
7815	2	Hospital Discharge Time is earlier than Venous Thromboembolism Prophylaxis Time		
7816	2	Hospital Discharge Time is earlier than Angiography Time		
7817	2	Hospital Discharge Time is earlier than Surgery for Hemorrhage Control Time		
7818	2	Hospital Discharge Time cannot be earlier than Withdrawal of Life Supporting Treatment Time		
7819	3	Hospital Discharge Time is earlier than Antibiotic Therapy Time		
7840	1	Single Entry Max exceeded		

# **FINANCIAL INFORMATION**

#### DEFINITION

Primary source of payment for hospital care.

#### **ELEMENT VALUES**

- 1. Medicaid
- 2. Not Billed (for any reason)
- 3. Self-Pay
- 4. Private/Commercial Insurance

- 6. Medicare
- 7. Other Government
- 10. Other

#### **ADDITIONAL INFORMATION**

- No Fault Automobile, Workers Compensation, and Blue Cross/Blue Shield should be reported as *Element Value* "4. Private/Commercial Insurance".
- Primary methods of payments which were retired greater than 2 years before the current NTDS version are no longer listed under *Element Values*. Refer to the NTDS Change Log for a full list of retired *Primary Methods of Payments*.

#### **DATA SOURCE HIERARCHY GUIDE**

- 1. Billing Sheet
- 2. Admission Form
- 3. Face Sheet

Rule ID	Level	Message
8001	1	Value is not a valid menu option
8002	2	Element cannot be blank
8003	2	Element cannot be "Not Applicable"
8040	1	Single Entry Max exceeded

## TRAUMA QUALITY IMPROVEMENT PROGRAM Measures for Processes of Care

\*\* The elements in this section should be reported and transmitted by Level 1 and Level 2 TQIP participating centers only. Please contact us at tqip@facs.org for information about joining TQIP.\*\*

## **HIGHEST GCS-TOTAL**

**REPORTING CRITERION**: Report on patients with at least one injury in AIS head region, excluding patients with isolated scalp abrasion(s), scalp contusion(s), scalp laceration(s) and/or scalp avulsion(s).

#### DEFINITION

Highest total GCS on calendar day after ED/Hospital arrival.

#### **ELEMENT VALUES**

• Relevant value for data element

#### **ADDITIONAL INFORMATION**

- Refers to highest total GCS on calendar day after ED/Hospital arrival to index hospital, where index hospital is the hospital abstracting the data.
- Requires review of all data sources to obtain the highest GCS total on the calendar day after ED/Hospital arrival.
- If patient is intubated then the GCS Verbal score is equal to 1.
- Best obtained when sedatives or paralytics are withheld as part of sedation holiday.
- If a patient does not have a numeric GCS recorded, but there is documentation related to their level of consciousness such as "AAOx3", "awake alert and oriented", or "patient with normal mental status", report this as GCS of 15 IF there is no other contradicting documentation.
- The null value "Not Applicable" is reported for patients that do not meet the reporting criterion.
- The null value "Not Known/Not Recorded" is reported if reporting *Highest GCS Motor 40*.
- If reporting *Highest GCS Total*, the null value "Not Applicable" is reported if the patient is discharged from your hospital prior to the next calendar day.

#### **DATA SOURCE HIERARCHY GUIDE**

- 1. Neuro Assessment Flow Sheet
- 2. Triage/Trauma /ICU Flow Sheet
- 3. Nursing Notes/Flow Sheet
- 4. Progress Notes

#### **ASSOCIATED EDIT CHECKS**

Rule ID	Level	Message
10001	1	GCS Total is outside the valid range of 3 - 15
10002	2	Element cannot be blank
10003	2	Highest GCS Total is less than GCS Motor Component of Highest GCS Total
10004	2	Element must be "Not Applicable" as the AIS codes provided do not meet the reporting criterion
10005	2	Element must not be "Not Applicable" as the AIS codes provided meet the reporting criterion, unless the patients <i>ED Discharge Date</i> or <i>Hospital Discharge Date</i> is prior to the next calendar day
10006	2	Element must be "Not Known/Not Recorded" when <i>Highest GCS 40 – Motor</i> is reported.
10007	1	Invalid Value
10008	2	Element must be "Not Applicable" as the patient was discharged on the same date as <i>ED/Hospital Arrival Date</i>

### **HIGHEST GCS-MOTOR**

**REPORTING CRITERION**: Report on patients with at least one injury in AIS head region, excluding patients with isolated scalp abrasion(s), scalp contusion(s), scalp laceration(s) and/or scalp avulsion(s).

#### DEFINITION

Highest GCS motor on calendar day after ED/Hospital arrival.

#### **ELEMENT VALUES**

#### <u>Pediatric (≤ 2 years):</u>

- 1. No motor response
- 2. Extension to pain
- 3. Flexion to pain

- 4. Withdrawal from pain
- 5. Localizing pain
- 6. Appropriate response to stimulation

#### <u>Adult</u>

- 1. No motor response
- 2. Extension to pain
- 3. Flexion to pain

- 4. Withdrawal from pain
- 5. Localizing pain
- 6. Obeys commands

#### **ADDITIONAL INFORMATION**

- Refers to highest GCS motor on calendar day after arrival to index hospital, where index hospital is the hospital abstracting the data.
- The null value "Not Applicable" is reported for patients that do not meet the reporting criterion.
- Requires review of all data sources to obtain the highest GCS motor score on calendar day after ED/Hospital arrival.
- Best obtained when sedatives or paralytics are withheld as part of sedation holiday.
- If a patient does not have a numeric GCS score recorded, but written documentation closely (or directly) relates to verbiage describing a specific level of functioning within the GCS scale, the appropriate numeric score may be reported. For example, the chart indicates: "patient withdraws from a painful stimulus," a Motor GCS of 4 may be reported, IF there is no other contradicting documentation.
- The null value "Not Known/Not Recorded" is reported if reporting *Highest GCS Motor 40*.
- If reporting *Highest GCS Motor*, the null value "Not Applicable" is reported if the patient is discharged from your hospital prior to the next calendar day.

#### **DATA SOURCE HIERARCHY GUIDE**

- 1. Neuro Assessment Flow Sheet
- 2. Triage/Trauma /ICU Flow Sheet
- 3. Nursing Notes/Flow Sheet
- 4. Progress Notes

Rule ID	Level	Message
10101	1	Value is not a valid menu option
10102	2	Element cannot be blank
10104	2	Element must be "Not Applicable" as the AIS codes provided do not meet the reporting criterion
10105	2	Element must not be "Not Applicable" as the AIS codes provided meet the reporting criterion, unless the patients <i>ED Discharge Date</i> or <i>Hospital Discharge Date</i> is prior to the next calendar day
10106	2	Element must be "Not Known/Not Recorded" when <i>Highest GCS 40 – Motor</i> is reported.
10107	2	Element must be "Not Applicable" as the patient was discharged on the same date as <i>ED/Hospital Arrival Date</i>
10140	1	Single Entry Max exceeded

### **GCS ASSESSMENT QUALIFIER COMPONENT OF HIGHEST GCS TOTAL**

**REPORTING CRITERION**: Report on patients with at least one injury in AIS head region, excluding patients with isolated scalp abrasion(s), scalp contusion(s), scalp laceration(s) and/or scalp avulsion(s).

#### DEFINITION

Documentation of factors potentially affecting the highest GCS on calendar day after ED/Hospital arrival.

#### **ELEMENT VALUES**

- 1. Patient chemically sedated or paralyzed
- 2. Obstruction to the patient's eye
- 3. Patient intubated

 Valid GCS: patient was not sedated, not intubated, and did not have obstruction to the eye

#### **ADDITIONAL INFORMATION**

- Refers to highest GCS assessment qualifier score on calendar day after ED/Hospital arrival to index hospital, where index hospital is the hospital abstracting the data.
- The null value "Not Applicable" is reported for patients that do not meet the reporting criterion.
- Requires review of all data sources to obtain the highest GCS motor score on calendar day after ED/Hospital arrival, which might occur after the ED phase of care.
- Identifies medical treatments given to the patient that may affect the best assessment of GCS. This element does not apply to self-medication the patient may have administered (i.e. ETOH, prescriptions, etc.).
- Must be the assessment qualifier for the *Highest GCS Total* on calendar day after ED/Hospital arrival.
- 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 reported.
- Neuromuscular blockade is typically induced following the administration of agents 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.
- Report all that apply.
- The null value "Not Known/Not Recorded" is reported if reporting *Highest GCS Motor 40*.
- If reporting *GCS Assessment Qualifier Component of Highest GCS Total*, the null value "Not Applicable" is reported if the patient is discharged from your hospital prior to the next calendar day.

#### **DATA SOURCE HIERARCHY GUIDE**

- 1. Neuro Assessment Flow Sheet
- 2. Triage/Trauma/ICU Flow Sheet
- 3. Nursing Notes/Flow Sheet
- 4. Progress Notes
- 5. Medication Summary

Rule ID	Level	Message
10201	1	Value is not a valid menu option
10202	2	Element cannot be blank
10203	2	Element must be "Not Applicable" as the AIS codes provided do not meet the reporting criterion
10204	2	Element must not be "Not Applicable" as the AIS codes provided meet the reporting criterion, unless the patients <i>ED Discharge Date</i> or <i>Hospital</i> <i>Discharge Date</i> is prior to the next calendar day
10206	2	Element must be "Not Known/Not Recorded" when <i>Highest GCS 40 – Motor</i> is reported.
10207	2	Element cannot be "Not Applicable" or "Not Known/Not Recorded" along with any other value
10208	2	Element must be "Not Applicable" as the patient was discharged on the same date as <i>ED/Hospital Arrival Date</i>
10250	1	Multiple Entry Max exceeded

### **HIGHEST GCS 40-MOTOR**

**REPORTING CRITERION**: Report on patients with at least one injury in AIS head region, excluding patients with isolated scalp abrasion(s), scalp contusion(s), scalp laceration(s) and/or scalp avulsion(s).

#### DEFINITION

Highest GCS motor on calendar day after ED/Hospital arrival.

#### **ELEMENT VALUES**

#### Adult:

- 0. Not Testable
- 1. None
- 2. Extension
- 3. Abnormal Flexion

- 4. Normal Flexion
- 5. Localizing
- 6. Obeys commands

### Pediatric < 5 years:

- 0. Not Testable
- 1. No motor response
- 2. Extension to pain

- 4. Localizing pain
- 5. Obeys commands

3. Flexion to pain

### Additional Information

- Refers to highest GCS 40 motor on calendar day after arrival to index hospital, where index hospital is the hospital abstracting the data.
- The null value "Not Applicable" is reported for patients that do not meet the reporting criterion.
- Requires review of all data sources to obtain the *Highest GCS 40 Motor* score on the calendar day after ED/Hospital arrival.
- If a patient does not have a numeric GCS 40 score recorded, but written documentation closely (or directly) relates to verbiage describing a specific level of functioning within the GCS scale, the appropriate numeric score may be reported. (E.g. the chart indicates: "patient opened mouth and stuck out tongue when asked" for adult patient's, a Motor GCS 40 of 6 may be reported, IF there is no other contradicting documentation.)
- Report Element Value "0. Not Testable" if unable to assess (e.g. neuromuscular blockade).
- The null value "Not Known/Not Recorded" is reported if *Highest GCS Motor* is reported.
- If reporting *Highest GCS 40 Motor*, the null value "Not Applicable" is reported if the patient is discharged from your hospital prior to the next calendar day.

#### DATA SOURCE HIERARCHY GUIDE

- 1. Neuro Assessment Flow Sheet
- 2. Triage/Trauma /ICU Flow Sheet
- 3. Nursing Notes/Flow Sheet
- 4. Progress Notes

Associated Edit Checks		
Rule ID	Level	Message
20601	1	Value is not a valid menu option
20602	2	Element cannot be blank
20604	2	Element must be "Not Applicable" as the AIS codes provided do not meet the reporting criterion
20605	2	Element must not be "Not Applicable" as the AIS codes provided meet the reporting criterion, unless the patients <i>ED Discharge Date</i> or <i>Hospital Discharge Date</i> is prior to the next calendar day
20606	2	Element must be "Not Known/Not Recorded" when <i>Highest GCS - Motor</i> is reported
20607	2	Element must be "Not Applicable" as the patient was discharged on the same date as <i>ED/Hospital Arrival Date</i>
20640	1	Single Entry Max exceeded

### **INITIAL ED/HOSPITAL PUPILLARY RESPONSE**

**REPORTING CRITERION**: Report on patients with at least one injury in AIS head region, excluding patients with isolated scalp abrasion(s), scalp contusion(s), scalp laceration(s) and/or scalp avulsion(s).

#### DEFINITION

Physiological response of the pupil size within 30 minutes or less of ED/Hospital arrival.

#### **ELEMENT VALUES**

1. Both reactive

3. Neither reactive

2. One reactive

#### **ADDITIONAL INFORMATION**

- Please note that first recorded hospital vitals do not need to be from the same assessment.
- If a patient does not have a listed element value recorded, but there is documentation related to their pupillary response such as PERRL "Pupils Equal Round Reactive to Light" report *Element Value* "1. Both reactive" IF there is no other contradicting documentation.
- The null value "Not Known/Not Recorded" should be reported if this information is not documented or if assessment is unable to be obtained due to facial trauma and/or foreign object in the eye.
- *Element Value* "2. One reactive" should be reported for patients who have a prosthetic eye.
- The null value "Not Applicable" is reported for patients that do not meet the reporting criterion.

#### **DATA SOURCE HIERARCHY GUIDE**

- 1. Triage/Trauma Flow Sheet
- 2. Nursing Notes/Flow Sheet
- 3. Progress Notes
- 4. History & Physical

Rule ID	Level	Message
13601	1	Value is not a valid menu option
13602	2	Element cannot be blank
13603	2	Element must be "Not Applicable" as the AIS codes provided do not meet the reporting criterion
13604	2	Element must not be "Not Applicable" as the AIS codes provided meet the reporting criterion
13640	1	Single Entry Max exceeded

### **MIDLINE SHIFT**

**REPORTING CRITERION**: Report on patients with at least one injury in AIS head region, excluding patients with isolated scalp abrasion(s), scalp contusion(s), scalp laceration(s) and/or scalp avulsion(s).

#### DEFINITION

>5mm shift of the brain past its center line within 24 hours after time of injury.

#### **ELEMENT VALUES**

1. Yes

3. Not Imaged (e.g. CT Scan, MRI)

2. No

#### **ADDITIONAL INFORMATION**

- If there is documentation of "massive" midline shift in lieu of >5mm shift measurement, report *Element Value* "1. Yes."
- Radiological and surgical documentation from transferring facilities should be considered for this data element.
- The null value "Not Applicable" is reported for patients that do not meet the reporting criterion.
- The null value "Not Known/Not Recorded" is reported if both the injury date and injury time are unknown.
- If the injury time is unknown, but there is supporting documentation that the injury occurred within 24-hours of any CT measuring a >5mm shift, report the *Element Value* "1. Yes" if there is no other contradicting documentation.
- If the patient was not imaged within 24 hours from the time of injury, report the *Element Value* "3. Not Imaged (e.g. CT Scan, MRI)."

#### **DATA SOURCE HIERARCHY GUIDE**

- 1. Radiology Report
- 2. Operative Report
- 3. Physician's Progress Notes
- 4. Nursing Notes/Flow Sheet
- 5. Hospital Discharge Summary

#### **ASSOCIATED EDIT CHECKS Rule ID** Level Message 13701 Value is not a valid menu option 1 13702 2 Element cannot be blank 13703 2 Element must be "Not Applicable" as the AIS codes provided do not meet the reporting criterion 13704 2 Element must not be "Not Applicable" as the AIS codes provided meet the reporting criterion

13740 1 Single Entry Max exceeded

## **CEREBRAL MONITOR**

**REPORTING CRITERION**: Report on patients with at least one injury in AIS head region, excluding patients with isolated scalp abrasion(s), scalp contusion(s), scalp laceration(s) and/or scalp avulsion(s).

#### DEFINITION

Indicate all cerebral monitors that were placed, including any of the following: ventriculostomy, subarachnoid bolt, camino bolt, external ventricular drain (EVD), licox monitor, jugular venous bulb.

#### **ELEMENT VALUES**

- 1. Intraventricular drain/catheter (e.g. ventriculostomy; external ventricular drain)
- Intraparenchymal pressure monitor (e.g. Camino bolt, subarachnoid bolt, intraparenchymal catheter)
- 3. Intraparenchymal oxygen monitor (e.g. Licox)
- 4. Jugular venous bulb
- 5. None

#### **Additional Information**

- Refers to insertion of an intracranial pressure (ICP) monitor (or other measures of cerebral perfusion) for the purposes of managing severe TBI.
- Cerebral monitor placed at a referring facility would be acceptable if such a monitor was used by receiving facility to monitor the patient.
- The null value "Not Applicable" is reported for patients that do not meet the reporting criterion.
- Report all that apply.

#### **DATA SOURCE HIERARCHY GUIDE**

- 1. Operative Report
- 2. Procedure Notes
- 3. Triage/Trauma/ICU Flow Sheet
- 4. Nursing Notes/Flow Sheet
- 5. Progress Notes
- 6. Anesthesia Record

#### **Associated Edit Checks**

Rule ID	Level	Message
10301	1	Value is not a valid menu option
10302	2	Element cannot be blank
10304	2	Element must be "Not Applicable" as the AIS codes provided do not meet the reporting criterion
10305	2	Element must not be "Not Applicable" as the AIS codes provided meet the reporting criterion
10306	2	Element cannot be "Not Applicable", "Not Known/Not Recorded", or <i>Element Value</i> "5. None" along with <i>Element Values</i> 1, 2, 3, and/or 4
10350	1	Multiple Entry Max exceeded

### **CEREBRAL MONITOR DATE**

**REPORTING CRITERION**: Report on patients with at least one injury in AIS head region, excluding patients with isolated scalp abrasion(s), scalp contusion(s), scalp laceration(s) and/or scalp avulsion(s).

#### DEFINITION

Date of first cerebral monitor placement.

#### **ELEMENT VALUES**

• Relevant value for data element

#### **ADDITIONAL INFORMATION**

- Reported as YYYY-MM-DD.
- The null value "Not Applicable" is reported if *Cerebral Monitor* is *Element Value* "5. None."
- The null value "Not Applicable" is reported for patients that do not meet the reporting criterion.
- If the cerebral monitor was placed at the referring facility, cerebral monitor date must be the date of insertion at the referring facility.

#### **DATA SOURCE HIERARCHY GUIDE**

- 1. Operative Reports
- 2. Procedure Notes
- 3. Triage/Trauma/ICU Flow Sheet
- 4. Nursing Notes/Flow Sheet
- 5. Progress Notes
- 6. Anesthesia Record

#### **ASSOCIATED EDIT CHECKS**

Rule ID	Level	Message
10401	1	Date is not valid
10402	2	Element cannot be blank
10403	1	Date out of range
10405	3	Element should not be "Not Known/Not Recorded" when <i>Cerebral Monitor</i> is <i>Element Values</i> 1, 2, 3, and/or 4
10407	3	<i>Cerebral Monitor Date</i> should not be earlier than <i>ED/Hospital Arrival Date</i> unless placed at referring facility and used for monitoring
10409	2	Element must be and can only be "Not Applicable" when <i>Cerebral Monitor</i> is "Not Applicable" or <i>Element Value</i> "5. None"
10410	2	Element must be "Not Known/Not Recorded" when <i>Cerebral Monitor</i> is "Not Known/Not Recorded"
10440	1	Single Entry Max exceeded

### **CEREBRAL MONITOR TIME**

**REPORTING CRITERION**: Report on patients with at least one injury in AIS head region, excluding patients with isolated scalp abrasion(s), scalp contusion(s), scalp laceration(s) and/or scalp avulsion(s).

#### DEFINITION

Time of first cerebral monitor placement.

#### **ELEMENT VALUES**

• Relevant values for data element

#### **ADDITIONAL INFORMATION**

- Reported as HHMM military time.
- The null value "Not Applicable" is reported if *Cerebral Monitor* is *Element Value* "5. None."
- The null value "Not Applicable" is reported for patients that do not meet the reporting criterion.
- If the cerebral monitor was placed at the referring facility, cerebral monitor time must be the time of insertion at the referring facility.

#### **DATA SOURCE HIERARCHY GUIDE**

- 1. Operative Reports
- 2. Procedure Notes
- 3. Triage/Trauma/ICU Flow Sheet
- 4. Nursing Notes/Flow Sheet
- 5. Progress Notes
- 6. Anesthesia Record

#### **ASSOCIATED EDIT CHECKS**

Rule ID	Level	Message
10501	1	Time is not valid
10502	1	Time out of range
10503	2	Element cannot be blank
10505	3	Element should not be "Not Known/Not Recorded" when <i>Cerebral Monitor</i> is <i>Element Values</i> 1, 2, 3, and/or 4
10506	3	<i>Cerebral Monitor Time</i> should not be earlier than <i>ED/Hospital Arrival Time</i> unless placed at referring facility and used for monitoring
10509	2	Element must be and can only be "Not Applicable" when <i>Cerebral Monitor Date</i> is "Not Applicable"
10510	2	Element must be "Not Known/Not Recorded" when <i>Cerebral Monitor Date</i> is "Not Known/Not Recorded"
10540	1	Single Entry Max exceeded

#### **REPORTING CRITERION:** Report on all patients

#### DEFINITION

Type of first dose of venous thromboembolism prophylaxis administered to patient at your hospital.

#### **ELEMENT VALUES**

- 5. None
- 6. LMWH (Dalteparin, Enoxaparin, etc.)
- 7. Direct Thrombin Inhibitor (Dabigatran, etc.)
- 8. Xa Inhibitor (Rivaroxaban, etc.)
- 10. Other
- 11. Unfractionated Heparin (UH)

#### **ADDITIONAL INFORMATION**

- *Element Value* "5. None" is reported if the first dose of venous thromboembolism prophylaxis is administered post discharge order date/time.
- Venous Thromboembolism Prophylaxis Types which were retired greater than 2 years before the current NTDS version are no longer listed under Element Values above, which is why there are numbering gaps. Refer to the NTDS Change Log for a full list of retired Venous Thromboembolism Prophylaxis Types.
- Exclude sequential compression devices
- *Element Value* "10. Other" is reported if "Coumadin" and/or "aspirin" are given as venous thromboembolism prophylaxis.

#### **DATA SOURCE HIERARCHY GUIDE**

- 1. Medication Summary
- 2. Nursing Notes/Flow Sheet
- 3. Pharmacy Record

Rule ID	Level	Message
10601	1	Value is not a valid menu option
10602	2	Element cannot be blank
10603	2	Element cannot be "Not Applicable"
10640	1	Single Entry Max exceeded

### **VENOUS THROMBOEMBOLISM PROPHYLAXIS DATE**

#### **REPORTING CRITERION:** Report on all patients

#### DEFINITION

Date of administration of first dose of venous thromboembolism prophylaxis administered to patient at your hospital.

#### **ELEMENT VALUES**

• Relevant value for data element

#### **ADDITIONAL INFORMATION**

- Reported as YYYY-MM-DD.
- Refers to date upon which patient first received the prophylactic agent indicated in *Venous Thromboembolism Prophylaxis Type*.
- The null value "Not Applicable" is reported if *Venous Thromboembolism Prophylaxis Type* is *Element Value* "5. None."

#### DATA SOURCE HIERARCHY GUIDE

- 1. Medication Summary
- 2. Nursing Notes/Flow Sheet

Rule ID	Level	Message
10701	1	Date is not valid
10702	1	Date out of range
10703	2	Element cannot be blank
10706	2	Venous Thromboembolism Prophylaxis Date is earlier than ED/Hospital Arrival Date
10708	2	Element must be and can only be "Not Applicable" when <i>Venous</i> <i>Thromboembolism Prophylaxis Type</i> is <i>Element Value</i> "5. None"
10709	2	Element must be "Not Known/Not Recorded" when <i>Venous</i> <i>Thromboembolism Prophylaxis Type</i> is "Not Known/Not Recorded"
10740	1	Single Entry Max exceeded

### **VENOUS THROMBOEMBOLISM PROPHYLAXIS TIME**

#### **REPORTING CRITERION:** Report on all patients

#### DEFINITION

Time of administration of first dose of venous thromboembolism prophylaxis administered to patient at your hospital

#### **ELEMENT VALUES**

• Relevant value for data element

#### **ADDITIONAL INFORMATION**

- Reported as HHMM military time.
- Refers to time at which patient first received the prophylactic agent indicated in *Venous Thromboembolism Prophylaxis Type*.
- The null value "Not Applicable" is reported if *Venous Thromboembolism Prophylaxis Type* is *Element Value* "5. None."

#### DATA SOURCE HIERARCHY GUIDE

- 1. Medication Summary
- 2. Nursing Notes/Flow Sheet

Rule ID	Level	Message
10801	1	Time is not valid
10802	1	Time out of range
10803	2	Element cannot be blank
10806	2	Venous Thromboembolism Prophylaxis Time is earlier than ED/Hospital Arrival Time
10809	2	Element must be and can only be "Not Applicable" when <i>Venous</i> <i>Thromboembolism Prophylaxis Date</i> is "Not Applicable"
10810	2	Element must be "Not Known/Not Recorded" when <i>Venous Thromboembolism</i> <i>Prophylaxis Date</i> is "Not Known/Not Recorded"
10840	1	Single Entry Max exceeded

### PACKED RED BLOOD CELLS

#### **REPORTING CRITERION:** Report on all patients

#### DEFINITION

Volume of packed red blood cells transfused (CCs [mLs]) within first 4 hours after ED/Hospital arrival.

#### **ELEMENT VALUES**

• Relevant value for data element

#### **ADDITIONAL INFORMATION**

- Refers to amount of transfused packed red blood cells (CCs [mLs]) within first 4 hours after arrival to your hospital.
- If no packed red blood cells were given, then volume reported should be 0 (zero).
- EXCLUDE: Packed red blood cells transfusing upon patient arrival.

#### **DATA SOURCE HIERARCHY GUIDE**

- 1. Trauma Flow Sheet
- 2. Anesthesia Report
- 3. Operative Report
- 4. Nursing Notes/Flow Sheet
- 5. Blood Bank

#### **Associated Edit Checks**

Rule ID	Level	Message
21801	1	Invalid value
21802	2	Element cannot be blank
21803	2	Element cannot be "Not Applicable"
21804	3	Value exceeds 40,000 for CCs
21840	1	Single Entry Max exceeded

### WHOLE BLOOD

#### **REPORTING CRITERION:** Report on all patients

#### DEFINITION

Volume of whole blood transfused (CCs [mLs]) within first 4 hours after ED/Hospital arrival.

#### **ELEMENT VALUES**

• Relevant value for data element

#### **ADDITIONAL INFORMATION**

- Refers to amount of transfused whole blood (CCs [mLs]) within first 4 hours after arrival to your hospital.
- If no whole blood was given, then volume reported should be 0 (zero).
- EXCLUDE: Whole blood transfusing upon patient arrival.

#### **DATA SOURCE HIERARCHY GUIDE**

- 1. Trauma Flow Sheet
- 2. Anesthesia Report
- 3. Operative Report
- 4. Nursing Notes/Flow Sheet

Rule ID	Level	Message
21101	1	Invalid value
21102	2	Element cannot be blank
21103	2	Element cannot be "Not Applicable"
21104	3	Value exceeds 40,000 for CCs
21140	1	Single Entry Max exceeded

### **PLASMA**

#### **REPORTING CRITERION:** Report on all patients

#### DEFINITION

Volume of plasma (CCs [mLs]) transfused within first 4 hours after ED/Hospital arrival.

#### **ELEMENT VALUES**

• Relevant value for data element

#### **ADDITIONAL INFORMATION**

- Refers to amount of transfused fresh frozen, thawed, or never frozen plasma (CCs[mLs]) within first 4 hours after arrival to your hospital.
- EXCLUDE: Plasma transfusing upon patient arrival.
- If no plasma was given, then volume reported should be 0 (zero).

#### **DATA SOURCE HIERARCHY GUIDE**

- 1. Trauma Flow Sheet
- 2. Anesthesia Report
- 3. Operative Report
- 4. Nursing Notes/Flow Sheet
- 5. Blood Bank

#### **Associated Edit Checks**

Rule ID	Level	Message
21201	1	Invalid value
21202	2	Element cannot be blank
21204	3	Value exceeds 40,000 for CCs
21208	2	Element cannot be "Not Applicable"
21240	1	Single Entry Max exceeded

### **PLATELETS**

#### **REPORTING CRITERION:** Report on all patients

#### DEFINITION

Volume of platelets (CCs [mLs]) transfused within first 4 hours after ED/Hospital arrival.

#### **ELEMENT VALUES**

• Relevant value for data element

#### **ADDITIONAL INFORMATION**

- Refers to amount of transfused platelets (CCs [mLs]) within first 4 hours after arrival to your hospital.
- EXCLUDE: Platelets transfusing upon patient arrival.
- If no platelets were given, then volume reported should be 0 (zero).

#### **DATA SOURCE HIERARCHY GUIDE**

- 1. Trauma Flow Sheet
- 2. Anesthesia Report
- 3. Operative Report
- 4. Nursing Notes/Flow Sheet
- 5. Blood Bank

#### **Associated Edit Checks**

Rule ID	Level	Message
21301	1	Invalid value
21302	2	Element cannot be blank
21304	3	Value exceeds 40,000 for CCs
21308	2	Element cannot be "Not Applicable"
21340	1	Single Entry Max exceeded

### CRYOPRECIPITATE

#### **REPORTING CRITERION:** Report on all patients

#### DEFINITION

Volume of solution enriched with clotting factors transfused (CCs [mLs]) within first 4 hours after ED/Hospital arrival.

#### **ELEMENT VALUES**

• Relevant value for data element

#### **ADDITIONAL INFORMATION**

- Refers to amount of transfused cryoprecipitate (CCs [mLs]) within first 4 hours after arrival to your hospital.
- EXCLUDE: Cryoprecipitate transfusing upon patient arrival.
- If no cryoprecipitate was given, then volume reported should be 0 (zero).

#### **DATA SOURCE HIERARCHY GUIDE**

- 1. Trauma Flow Sheet
- 2. Anesthesia Report
- 3. Operative Report
- 4. Nursing Notes/Flow Sheet
- 5. Blood Bank

Rule ID	Level	Message	
21401	1	Invalid value	
21402	2	Element cannot be blank	
21404	3	Value exceeds 40,000 for CCs	
21408	2	Element cannot be "Not Applicable"	
21440	1	Single Entry Max exceeded	

### LOWEST ED/HOSPITAL SYSTOLIC BLOOD PRESSURE

**REPORTING CRITERION**: Report on all patient with transfused packed red blood cells or whole blood within first 4 hours after ED/Hospital arrival

#### DEFINITION

Lowest systolic blood pressure measured within the first hour of ED/Hospital arrival.

#### **ELEMENT VALUES**

• Relevant value for data element

#### **ADDITIONAL INFORMATION**

• The null value "Not Applicable" is reported for patients that do not meet the reporting criterion.

#### **DATA SOURCE HIERARCHY GUIDE**

- 1. Triage/Trauma/ICU Flow Sheet
- 2. Operative Report
- 3. Nursing Notes/Flow Sheet

#### **Associated Edit Checks**

Rule ID	Level	Message
10901	1	Invalid value
10902	2	Element cannot be blank
10903	3	The value is above 220
10906	2	Element must be and can only be "Not Applicable" when <i>Packed Red Blood</i> <i>Cells</i> and <i>Whole Blood</i> are 0
10907	2	Element must be "Not Known/Not Recorded" when <i>Packed Red Blood Cells</i> and <i>Whole Blood</i> are "Not Known/Not Recorded"
10908	2	The value submitted falls outside the valid range of 0-380
10909	3	The value is below 30
10940	1	Single Entry Max exceeded

**REPORTING CRITERION**: Report on all patient with transfused packed red blood cells or whole blood within first 4 hours after ED/Hospital arrival

#### DEFINITION

First interventional angiogram for hemorrhage control within first 24 hours of ED/Hospital arrival.

#### **ELEMENT VALUES**

- 1. None
- 2. Angiogram only

- 3. Angiogram with embolization
- 4. Angiogram with stenting

### **ADDITIONAL INFORMATION**

- Limit reporting angiography data to the first 24 hours following ED/Hospital arrival.
- The null value "Not Applicable" is reported for patients that do not meet the reporting criterion.
- Excludes computerized tomographic angiography (CTA).
- Only report *Element Value* "4. Angiogram with stenting" if stenting was performed specifically for hemorrhage control.

### **DATA SOURCE HIERARCHY GUIDE**

- 1. Radiology Report
- 2. Operative Report
- 3. Progress Notes

Rule ID	Level	Message
11701	1	Invalid value
11702	2	Element cannot be blank
11704	2	Element must be and can only be "Not Applicable" when <i>Packed Red Blood Cells</i> and <i>Whole Blood</i> are 0
11705	2	Element must be "Not Known/Not Recorded" when <i>Packed Red Blood Cells</i> and <i>Whole Blood</i> are "Not Known/Not Recorded"
11740	1	Single Entry Max exceeded

# **EMBOLIZATION SITE**

**REPORTING CRITERION**: Report on all patient with transfused packed red blood cells or whole blood within first 4 hours after ED/Hospital arrival

## DEFINITION

Organ/site of embolization for hemorrhage control.

## **ELEMENT VALUES**

- 1. Liver
- 2. Spleen
- 3. Kidneys
- 4. Pelvic (iliac, gluteal, obturator)

- 5. Retroperitoneum (lumbar, sacral)
- 6. Peripheral vascular (neck, extremities)
- 7. Aorta (thoracic or abdominal) Retired 2020
- 8. Other

## **ADDITIONAL INFORMATION**

- The null value "Not Applicable" is reported if *Angiography* is *Element Value* "1. None","2. Angiogram Only", or "4. Angiogram with stenting".
- The null value "Not Applicable" is reported for patients that do not meet the reporting criterion.
- Report all that apply.

## **DATA SOURCE HIERARCHY GUIDE**

- 1. Radiology Report
- 2. Operative Report
- 3. Progress Notes

Rule ID	Level	Message
11801	1	Value is not a valid menu option
11802	2	Element cannot be blank
11804	2	Element must be and can only be "Not Applicable" when <i>Angiography</i> is "Not Applicable" or <i>Element Value</i> "1. None", "2. Angiogram only", or "4. Angiogram with stenting"
11805	2	Element cannot be "Not Applicable" or "Not Known/Not Recorded" along with any other value
11850	1	Multiple Entry Max exceeded

# **ANGIOGRAPHY DATE**

**REPORTING CRITERION**: Report on all patient with transfused packed red blood cells or whole blood within first 4 hours after ED/Hospital arrival

## DEFINITION

Date the first angiogram with or without embolization was performed.

## **ELEMENT VALUES**

• Relevant value for data element

## Additional Information

- Reported as YYYY-MM-DD.
- The null value "Not Applicable" is reported if the data element *Angiography* is *Element Value* "1. None."
- The null value "Not Applicable" is reported for patients that do not meet the reporting criterion.
- Procedure start date is the date of needle insertion in the groin.

## **DATA SOURCE HIERARCHY GUIDE**

- 1. Radiology Report
- 2. Operative Report
- 3. Progress Notes

Rule ID	Level	Message
11901	1	Date is not valid
11902	1	Date out of range
11903	2	Element cannot be blank
11905	2	Element must be and can only be "Not Applicable" when <i>Angiography</i> is "Not Applicable" or <i>Element Value</i> "1. None"
11906	2	Angiography Date is earlier than ED/Hospital Arrival Date
11908	2	Angiography Date occurs more than 24 hours after ED Hospital Arrival Date
11909	2	Element must be "Not Known/Not Recorded" when <i>Angiography</i> is "Not Known/Not Recorded"
11940	1	Single Entry Max exceeded

# **ANGIOGRAPHY TIME**

**REPORTING CRITERION**: Report on all patient with transfused packed red blood cells or whole blood within first 4 hours after ED/Hospital arrival

## DEFINITION

Time the first angiogram with or without embolization was performed.

#### **ELEMENT VALUES**

• Relevant value for data element

#### **ADDITIONAL INFORMATION**

- Reported as HHMM military time.
- The null value "Not Applicable" is reported if the data element *Angiography* is *Element Value*"1. None."
- The null value "Not Applicable" is reported for patients that do not meet the reporting criterion.
- Procedure start time is the time of needle insertion in the groin.

#### **DATA SOURCE HIERARCHY GUIDE**

- 1. Radiology Report
- 2. Operative Report
- 3. Progress Notes

Rule ID	Level	Message	
12001	1	Time is not valid	
12002	1	Time out of range	
12003	2	Element cannot be blank	
12004	2	Element cannot be "Not Applicable" when <i>Angiography</i> is <i>Element Value</i> "2. 'Angiogram only', 3. 'Angiogram with embolization', or 4. 'Angiogram with stenting'"	
12005	2	Element must be and can only be "Not Applicable" when <i>Angiography</i> is "Not Applicable" or <i>Element Value</i> "1. None"	
12006	2	Angiography Time is earlier than ED/Hospital Arrival Time	
12008	2	Angiography Time occurs more than 24 hours after ED/Hospital Arrival Time	
12009	2	Element must be "Not Known/Not Recorded" when <i>Angiography Date</i> is "Not Known/Not Recorded	
12040	1	Single Entry Max exceeded	

**REPORTING CRITERION**: Report on all patient with transfused packed red blood cells or whole blood within first 4 hours after ED/Hospital arrival

# DEFINITION

First type of surgery for hemorrhage control within the first 24 hours of ED/Hospital arrival.

# **ELEMENT VALUES**

- 1. None
- 2. Laparotomy
- 3. Thoracotomy
- 4. Sternotomy

- 6. Neck
- 7. Mangled extremity/traumatic amputation
- 8. Other skin/soft tissue (e.g. scalp laceration)
- 9. Extraperitoneal Pelvic Packing

5. Extremity

## **ADDITIONAL INFORMATION**

- If unclear if surgery was for hemorrhage control, then consult TMD or operating/consulting/ relevant surgeon
- The null value "Not Applicable" is reported for patients that do not meet the reporting criterion.
- *Element Value* "1. None" is reported if *Surgery for Hemorrhage Control Type* is not a listed Element Value option.

## **DATA SOURCE HIERARCHY GUIDE**

- 1. Operative Report
- 2. Procedure Notes
- 3. Progress Notes

Rule ID	Level	Message
12101	1	Value is not a valid menu option
12102	2	Element cannot be blank
12104	2	Element must be and can only be "Not Applicable" when <i>Packed Red Blood Cells</i> and <i>Whole Blood</i> are 0
12105	2	Element must be "Not Known/Not Recorded" when <i>Packed Red Blood Cells</i> and <i>Whole Blood</i> are "Not Known/Not Recorded"
12140	1	Single Entry Max exceeded

**REPORTING CRITERION**: Report on all patient with transfused packed red blood cells or whole blood within first 4 hours after ED/Hospital arrival

## DEFINITION

Date of first surgery for hemorrhage control within first 24 hours of ED/Hospital arrival.

# **ELEMENT VALUES**

• Relevant value for data element

## **ADDITIONAL INFORMATION**

- Reported as YYYY-MM-DD.
- If unclear if surgery was for hemorrhage control, then consult TMD or operating/consulting/ relevant surgeon.
- The null value "Not Applicable" is reported if *Surgery for Hemorrhage Control Type* is *Element Value* "1. None."
- The null value "Not Applicable" is reported for patients that do not meet the reporting criteria.
- Procedure start date is defined as the date the incision was made (or the procedure started).

# **DATA SOURCE HIERARCHY GUIDE**

- 1. Operative Report
- 2. Procedure Notes
- 3. Progress Notes

Rule ID	Level	Message
12201	1	Date is not valid
12202	1	Date out of range
12203	2	Surgery For Hemorrhage Control Date is earlier than ED/Hospital Arrival Date
12206	2	Element must be and can only be "Not Applicable" when <i>Surgery For Hemorrhage</i> <i>Control Type</i> is "Not Applicable" or <i>Element Value</i> "1. None"
12207	2	Element cannot be blank
12208	2	Surgery for Hemorrhage Control Date occurs more than 24 hours after ED/Hospital Arrival Date
12209	2	Element must be "Not Known/Not Recorded" when <i>Surgery For Hemorrhage</i> <i>Control Type</i> is "Not Known/Not Recorded"
12240	1	Single Entry Max exceeded

**REPORTING CRITERION**: Report on all patient with transfused packed red blood cells or whole blood within first 4 hours after ED/Hospital arrival

# DEFINITION

Time of first surgery for hemorrhage control within first 24 hours of ED/Hospital arrival.

# **ELEMENT VALUES**

• Relevant value for data element

## **ADDITIONAL INFORMATION**

- Reported as HHMM military time.
- If unclear if surgery was for hemorrhage control, then consult TMD or operating/consulting/ relevant surgeon.
- The null value "Not Applicable" is reported if *Surgery for Hemorrhage Control Type* is *Element Value* "1. None."
- The null value "Not Applicable" is reported for patients that do not meet the reporting criteria.
- Procedure start time is defined as the time the incision was made (or the procedure started).

# **DATA SOURCE HIERARCHY GUIDE**

- 1. Operative Report
- 2. Procedure Notes
- 3. Progress Notes

## **Associated Edit Checks**

Rule ID	Level	Message
12301	1	Time is not valid
12302	1	Time out of range
12303	2	Surgery For Hemorrhage Control Time is earlier than ED/Hospital Arrival Time
12307	2	Element cannot be blank
12308	2	Surgery for Hemorrhage Control Time occurs more than 24 hours after ED/Hospital Arrival Time
12309	2	Element must be and can only be "Not Applicable" when <i>Surgery For</i> <i>Hemorrhage Control Date</i> is "Not Applicable"
12310	2	Element must be "Not Known/Not Recorded" when <i>Surgery For</i> <i>Hemorrhage Control Date</i> is "Not Known/Not Recorded"
12340	1	Single Entry Max exceeded

# WITHDRAWAL OF LIFE SUPPORTING TREATMENT

#### **REPORTING CRITERION:** Report on all patients

#### DEFINITION

Treatment was withdrawn based on a decision to either remove or withhold further life supporting intervention. This decision must be documented in the medical record and is often, but not always associated with a discussion with the legal next of kin.

#### **ELEMENT VALUES**

1. Yes

2. No

## **ADDITIONAL INFORMATION**

- DNR not a requirement.
- A note to limit escalation of treatment qualifies as a withdrawal of life supporting treatment. These interventions are limited to: ventilator support (with or without extubation), dialysis or other forms of renal support, institution of medications to support blood pressure or cardiac function, or a specific surgical, interventional or radiological procedure (e.g. decompressive craniectomy, operation for hemorrhage control, angiography). Note that this definition provides equal weight to the withdrawal of an intervention already in place (e.g. extubation) and a decision not to proceed with a life-supporting intervention (e.g. intubation).
- Excludes the discontinuation of CPR and typically involves prior planning.
- DNR order is not the same as withdrawal of life supporting treatment.
- *Element Value* "2. No" should be reported for patients whose time of death, according to your hospital's definition, was prior to the removal of any interventions or escalation of care.

## **DATA SOURCE HIERARCHY GUIDE**

- 1. Physician Order
- 2. Progress Order
- 3. Case Manager/Social Services Notes
- 4. Nursing Notes/Flow Sheet
- 5. Discharge Summary

## **ASSOCIATED EDIT CHECKS**

Rule ID	Level	Message
13801	1	Value is not a valid menu option
13802	2	Element cannot be blank
13803	2	Element cannot be "Not Applicable"
13840	1	Single Entry Max exceeded

#### **TQIP MEASURES FOR PROCESSES OF CARE**

# WITHDRAWAL OF LIFE SUPPORTING TREATMENT DATE

#### **REPORTING CRITERION:** Report on all patients

#### DEFINITION

The date treatment was withdrawn.

#### **ELEMENT VALUES**

• Relevant value for data element

#### **ADDITIONAL INFORMATION**

- Reported as YYYY-MM-DD.
- The null value "Not Applicable" is reported for patients when *Withdrawal of Life Supporting Treatment* is *Element Value* "2. No."
- Report the date the first of any existing life-supporting intervention(s) is withdrawn (e.g. extubation). If no intervention(s) is in place, record the date the decision not to proceed with a life- supporting intervention(s) occurs (e.g. intubation).

#### DATA SOURCE HIERARCHY GUIDE

- 1. Physician Order
- 2. Progress Order
- 3. Respiratory Therapy Notes/Flow Sheet
- 4. Case Manager/Social Services Notes
- 5. Nursing Notes/Flow Sheet
- 6. Discharge Summary

Rule ID	Level	Message
13901	1	Date is not valid
13902	1	Date out of range
13903	2	Withdrawal of Life Supporting Treatment Date is earlier than ED/Hospital Arrival Date
13906	2	Element must be and can only be "Not Applicable" when <i>Withdrawal of Life</i> <i>Supporting Treatment</i> is <i>Element Value</i> "2. No"
13907	2	Element cannot be blank
13908	2	Element must be "Not Known/Not Recorded" when <i>Withdrawal of Life</i> <i>Supporting Treatment</i> is "Not Known/Not Recorded"
13940	1	Single Entry Max exceeded

# WITHDRAWAL OF LIFE SUPPORTING TREATMENT TIME

#### **REPORTING CRITERION:** Report on all patients

#### DEFINITION

The time treatment was withdrawn.

#### **ELEMENT VALUES**

• Relevant value for data element

#### **ADDITIONAL INFORMATION**

- Reported as HHMM military time.
- The null value "Not Applicable" is reported for patients when Withdrawal of Life Supporting Treatment is Element Value "2. No."
- Report the time the first of any existing life-supporting intervention(s) is withdrawn (e.g. extubation). If no intervention(s) is in place, record the time the decision not to proceed with a life- supporting intervention(s) occurs (e.g. intubation).

## DATA SOURCE HIERARCHY GUIDE

- 1. Physician Order
- 2. Progress Order
- 3. Respiratory Therapy Notes/Flow Sheet
- 4. Case Manager/Social Services Notes
- 5. Nursing Notes/Flow Sheet
- 6. Discharge Summary

Rule ID	Level	Message
14001	1	Time is not valid
14002	1	Time out of range
14003	2	Withdrawal of Life Supporting Treatment Time is earlier than ED/Hospital Arrival Time
14007	2	Element cannot be blank
14008	2	Element must be and can only be "Not Applicable" when <i>Withdrawal of Life</i> <i>Supporting Treatment Date</i> is "Not Applicable"
14009	2	Element must be "Not Known/Not Recorded" when <i>Withdrawal of Life</i> Supporting Treatment Date is "Not Known/Not Recorded"
14040	1	Single Entry Max exceeded

# **ANTIBIOTIC THERAPY**

**REPORTING CRITERION:** Report on all patients with any open fracture(s)

## DEFINITION

Intravenous antibiotic therapy was administered to the patient within 24 hours after first hospital encounter.

#### **ELEMENT VALUES**

1. Yes

2. No

## **ADDITIONAL INFORMATION**

- The null value "Not Applicable" is reported for patients that do not meet the reporting criterion.
- Report intravenous antibiotic therapy that was administered to the patient within 24 hours after first hospital encounter, at either your facility or the transferring facility.
- Open fractures as defined by the Association for the Advancement of Automotive Medicine AIS Coding Rules and Guidelines.

## **DATA SOURCE HIERARCHY GUIDE**

- 1. Triage/Trauma/ICU Flow Sheet
- 2. Medication Summary
- 3. Anesthesia Record
- 4. Nursing Notes/Flow Sheet
- 5. Pharmacy Record

Rule ID	Level	Message
20701	1	Value is not a valid menu option
20702	2	Element cannot be blank
20705	2	Element must be "Not Applicable" as the AIS codes provided do not meet the reporting criterion
20706	2	Element must not be "Not Applicable" as the AIS codes provided meet the reporting criterion
20740	1	Single Entry Max exceeded

# **ANTIBIOTIC THERAPY DATE**

**REPORTING CRITERION:** Report on all patients with any open fracture(s)

## DEFINITION

The date of first recorded intravenous antibiotic therapy administered to the patient within 24 hours after first hospital encounter.

## **ELEMENT VALUES**

• Relevant value for data element

## **ADDITIONAL INFORMATION**

- Reported as YYYY-MM-DD
- The null value "Not Applicable" is reported for patients that do not meet the reporting criterion.
- Report the date of the first intravenous antibiotic therapy administered to the patient within 24 hours after first hospital encounter, at either your facility of the transferring facility.
- The null value "Not Applicable" is reported if *Antibiotic Therapy* is *Element Value* "2. No".
- Open fractures as defined by the Association for the Advancement of Automotive Medicine AIS Coding Rules and Guidelines.

## **DATA SOURCE HIERARCHY GUIDE**

- 1. Triage/Trauma/ICU Flow Sheet
- 2. Medication Summary
- 3. Anesthesia Record
- 4. Nursing Notes/Flow Sheet
- 5. Pharmacy Record

Rule ID	Level	Message
20801	1	Date is not valid
20802	2	Date is out of range
20804	2	Element must be and can only be "Not Applicable" when <i>Antibiotic Therapy</i> is "Not Applicable" or <i>Element Value</i> "2. No"
20808	2	Element cannot be blank
20809	2	Element must be "Not Known/Not Recorded" when <i>Antibiotic Therapy</i> is "Not Known/Not Recorded"
20840	1	Single Entry Max exceeded

# **ANTIBIOTIC THERAPY TIME**

**REPORTING CRITERION:** Report on all patients with any open fracture(s)

## DEFINITION

The time of first recorded intravenous antibiotic therapy administered to the patient within 24 hours after first hospital encounter.

## **ELEMENT VALUES**

• Relevant value for data element

## **ADDITIONAL INFORMATION**

- Reported as HHMM military time
- The null value "Not Applicable" is reported for patients that do not meet the reporting criterion.
- Report the time of the first intravenous antibiotic therapy administered to the patient within 24 hours after first hospital encounter, at either your facility of the transferring facility.
- The null value "Not Applicable" is reported if *Antibiotic Therapy* is *Element Value* "2. No".
- Open fractures as defined by the Association for the Advancement of Automotive Medicine AIS Coding Rules and Guidelines.

## **DATA SOURCE HIERARCHY GUIDE**

- 1. Triage/Trauma/ICU Flow Sheet
- 2. Medication Summary
- 3. Anesthesia Record
- 4. Nursing Notes/Flow Sheet
- 5. Pharmacy Record

Rule ID	Level	Message
20901	1	Time is not valid
20902	2	Time is out of range
20908	2	Element cannot be blank
20909	2	Element must be and can only be "Not Applicable" when <i>Antibiotic Therapy Date</i> is "Not Applicable"
20910	2	Element must be "Not Known/Not Recorded" when <i>Antibiotic Therapy Date</i> is "Not Known/Not Recorded"
20940	1	Single Entry Max exceeded

# SURGEON SPECIFIC REPORTING-OPTIONAL

\*\* Element(s) in this section are optional\*\*

# NATIONAL PROVIDER IDENTIFIER (NPI)

#### DEFINITION

The National Provider Identifier (NPI) of the admitting surgeon.

#### **ELEMENT VALUES**

• Relevant value for data element

#### **ADDITIONAL INFORMATION**

- This variable is considered optional and is not required as part of the NTDS dataset.
- Must be stored as a 10-digit numeric value.
- The null value "Not Applicable" is reported if this optional element is not being reported.

## **DATA SOURCE HIERARCHY GUIDE**

Rule ID	Level	Message
9801	1	Invalid value
9802	2	Element cannot be blank
9840	1	Single Entry Max exceeded

# **APPENDIX 1: ACCOUNT CENTER**

# FACILITY CHARACTERISTICS

VARIABLE	VALUES
Number of Hospital Bed Licensed - Adult	Numeric
Number of Hospital Bed Staffed - Adult	Numeric
Average Census - Adult	Numeric
Number of Hospital Beds Licensed - Pediatric	Numeric
Number of Hospital Beds Staffed - Pediatric	Numeric
Average Census - Pediatric	Numeric
ICU for Trauma	Numeric
Burn	Numeric
ICU for Burn	Numeric
Hospital Tax Status	For profit; Non-profit; Government
Hospital Teaching Status	University; Community; Non-teaching
Hospital Payer Mix	Numeric

## PEDIATRICS

VARIABLE	VALUES
Are you associated with a pediatric hospital?	Yes; No
Do you have a pediatric ward?	Yes; No
Do you have a pediatric ICU?	Yes; No
Do you transfer the most severely injured children to other specialty centers?	Yes; No
How do you provide care to injured children?	No children (Not Applicable); Provide all acute care services; Shared role with another center.
What is the oldest age for pediatric patients in your facility?	10; 11; 12 ;13; 14; 15; 16; 17; 18; 19;20; 21; or none

## PERSONNEL

VARIABLE	VALUES
Number of core trauma surgeons	Numeric
Number of orthopedic surgeons	Numeric
Number of neurosurgeons	Numeric
Number of data abstractors/trauma registrars	Numeric
Number of registrars that are certified	Numeric

## **APPENDIX 2: EDIT CHECKS FOR THE NATIONAL TRAUMA DATA STANDARDS DATA ELEMENTS**

The flags described in this Appendix are those that are produced by the Validator when an NTDS XML file is checked. Each rule ID is assigned a flag level 1 - 3. Level 1 and 2 flags must be resolved, or the entire file cannot be submitted to the NTDB. Level 3 flags serve as recommendations to check data elements associated with the flags. However, level 3 flags do not necessarily indicate that data are incorrect.

The Flag Levels are defined as follows:

- Level 1: Format / schema\* any element that does not conform to the "rules" of the XSD. That is, these are errors that arise from XML data that cannot be parsed or would otherwise not be legal XML. Some errors in this Level do not have a Rule ID – for example: illegal tag, commingling of null values and actual data, out of range errors, etc.
- Level 2: Inclusion criteria and/or critical to analyses\* this level affects the elements needed to determine if the record meets the inclusion criteria for NTDB or are required for critical analyses.
- Level 3: Logic data consistency checks related to variables commonly used for reporting (e.g. Arrival Date, E-code, etc.) and blank elements that are acceptable to create a "valid" XML record but may cause certain parts of the record to be excluded from analysis.

Please note:

- Any XML file submitted to NTDB that contains one or more Level 1 or 2 Flags will result in the entire file being rejected. These kinds of flags must be resolved before a submission will be accepted.
- Facility ID, Patient ID and Last Modified Date/Time are not described in the data dictionary and are only required in the XML file as control information for back-end NTDB processing. However, these elements are mandatory to provide in every XML record. Consult your Registry Vendor if one of these flags occurs.

The remainder of this Appendix provides a consolidated list of Rule IDs by Data Element. There is an additional Rule Id, "0000", with Flag Level 1 that will be returned when a Data Element is contained in the XML file that is not valid based on this Data Dictionary.

# **DEMOGRAPHIC INFORMATION**

# PATIENT'S HOME ZIP/POSTAL CODE

Rule ID	Level	Message
0001	1	Invalid value
0002	2	Element cannot be blank
0040	1	Single Entry Max exceeded

# PATIENT'S HOME COUNTRY

Rule ID	Level	Message
0101	1	Invalid value
0102	2	Element cannot be blank
0104	2	Element cannot be "Not Applicable"
0105	2	Element cannot be "Not Known/Not Recorded" when <i>Patient's Home Zip/Postal</i> <i>Code</i> is any response other than "Not Applicable" or "Not Known/Not Recorded"
0140	1	Single Entry Max exceeded

# PATIENT'S HOME STATE

Rule ID	Level	Message
0201	1	Invalid value
0202	2	Element cannot be blank
0204	2	Element must be "Not Applicable" (Non-US hospitals only)
0205	2	Element must be "Not Applicable" when <i>Patient's Home Zip/Postal Code</i> is reported
0240	1	Single Entry Max exceeded

# PATIENT'S HOME COUNTY

Rule ID	Level	Message
0301	1	Invalid value
0302	2	Element cannot be blank
0304	2	Element must be "Not Applicable" (Non-US hospitals only)
0305	2	Element must be "Not Applicable" when <i>Patient's Home Zip/Postal Code</i> is reported
0340	1	Single Entry Max exceeded

PATIENT'S HOME CITY			
Rule ID	Level	Message	
0401	1	Invalid value	
0402	2	Element cannot be blank	
0404	2	Element must be "Not Applicable" (Non-US hospitals only)	
0405	2	Element must be "Not Applicable" when <i>Patient's Home Zip/Postal Code</i> is reported	
0440	1	Single Entry Max exceeded	

#### **ALTERNATE HOME RESIDENCE**

Rule ID	Level	Message
0501	1	Value is not a valid menu option
0502	2	Element cannot be blank
0503	2	Element cannot be "Not Applicable" or "Not Known/Not Recorded" along with any other value
0540	1	Multiple Entry Max exceeded

## DATE OF BIRTH

Rule ID	Level	Message
0601	1	Invalid value
0602	1	Date out of range
0603	2	Element cannot be blank
0612	2	Date of Birth + 120 years must be less than <i>Injury Incident Date</i>
0613	2	Element cannot be "Not Applicable"
0640	1	Single Entry Max exceeded

## AGE

Rule ID	Level	Message
0701	1	Age is outside the valid range of 0 - 120
0703	2	Element cannot be blank
0705	3	Age is greater than expected for the <i>Age Units</i> specified. Age should not exceed 60 minutes, 24 hours, 30 days, 24 months, or 120 years. Please verify this is correct.
0708	2	Element must be "Not Known/Not Recorded" when <i>Age Units</i> is "Not Known/ Not Recorded"
0709	2	Element must be and can only be "Not Applicable" if <i>Date of Birth</i> is reported unless <i>Date of Birth</i> is the same as <i>ED/Hospital Arrival Date</i>
0740	1	Single Entry Max exceeded

AGE UNITS	AGE UNITS		
Rule ID	Level	Message	
0801	1	Value is not a valid menu option	
0803	2	Element cannot be blank	
0806	2	Element must be "Not Known/Not Recorded" when <i>Age</i> is "Not Known/Not Recorded"	
0810	2	Element must be and can only be "Not Applicable" if <i>Age</i> is "Not Applicable"	
0840	1	Single Entry Max exceeded	
RACE			
Rule ID	Level	Message	
0901	1	Value is not a valid menu option	
0902	2	Element cannot be blank	
0903	2	Element cannot be "Not Applicable" (excluding CA hospitals)	
0905	2	Element cannot be "Not Applicable" or "Not Known/Not Recorded" along with any other value	
0950	1	Multiple Entry Max exceeded	
ETHNICITY	(		
Rule ID	Level	Message	
1001	1	Value is not a valid menu option	

Rule ID	Level	Message
1001	1	Value is not a valid menu option
1002	2	Element cannot be blank
1003	2	Element cannot be "Not Applicable" (excluding CA hospitals)
1040	1	Single Entry Max exceeded

## SEX

Rule ID	Level	Message
1101	1	Value is not a valid menu option
1102	2	Element cannot be blank
1103	2	Element cannot be "Not Applicable"
1140	1	Single Entry Max exceeded

# **INJURY INFORMATION**

#### **INJURY INCIDENT DATE**

Rule ID	Level	Message
1201	1	Date is not valid
1202	1	Date out of range
1203	2	Element cannot be blank
1204	2	Injury Incident Date is earlier than Date of Birth
1211	2	Element cannot be "Not Applicable"
1212	3	Injury Incident Date is greater than 14 days earlier than ED/Hospital Arrival
		Date
1240	1	Single Entry Max exceeded

#### **INJURY INCIDENT TIME**

Rule ID	Level	Message
1301	1	Time is not valid
1302	1	Time out of range
1303	2	Element cannot be blank
1310	2	Element cannot be "Not Applicable"
1340	1	Single Entry Max exceeded

#### **WORK-RELATED**

Rule ID	Level	Message
1401	1	Value is not a valid menu option
1402	2	Element cannot be blank
1407	2	Element cannot be "Not Applicable"
1440	1	Single Entry Max exceeded

# PATIENT'S OCCUPATIONAL INDUSTRY

Rule ID	Level	Message
1501	1	Value is not a valid menu option
1504	2	Element cannot be blank
1505	2	If Work-Related is "1. Yes", Patient's Occupational Industry cannot be "Not Applicable"
1506	2	"Not Applicable" must be reported if <i>Work-Related</i> is <i>Element Value</i> "2. No"
1540	1	Single Entry Max exceeded

PATIENT'S OCCUPATION			
Rule ID	Level	Message	
1601	1	Value is not a valid menu option	
1604	2	Element cannot be blank	
1605	2	If <i>Work-Related</i> is <i>Element Value</i> "1. Yes", <i>Patient's Occupation</i> cannot be "Not Applicable"	
1606	2	"Not Applicable" must be reported if <i>Work-Related</i> is <i>Element Value</i> "2. No"	
1640	1	Single Entry Max exceeded	
ICD-10 PR		EXTERNAL CAUSE CODE	
Rule ID	Level	Message	
8901	1	E-Code is not a valid ICD-10-CM code (ICD-10-CM only)	
8902	2	Element cannot be blank	
8904	2	Must not be Y92.X/Y92.XX/Y92.XXX (where X is A-Z or 0-9) (ICD-10-CM only)	
8905	3	ICD-10 External Cause Code must not be Y93.X/Y93.XX (where X is A-Z or 0-9) (ICD-10 CM only)	
8906	1	E-Code is not a valid ICD-10-CA code (ICD-10-CA only)	
8907	2	Element cannot be "Not Applicable"	
8940	1	Single Entry Max exceeded	
		OCCURRENCE EXTERNAL CAUSE CODE	
Rule ID	Level	Message	
9001	1	Invalid value (ICD-10-CM only)	
9002	2	Element cannot be blank	
9003	3	Place of Injury code must be Y92.X/Y92.XX/Y92.XXX (where X is A-Z [excluding I,O] or 0-9) (ICD-10-CM only)	
9004	1	Invalid value (ICD-10-CA only)	
9005	3	Place of Injury code must be U98X (where X is 0-9) (ICD-10-CA only)	
9006	2	Element cannot be "Not Applicable"	
9040	1	Single Entry Max exceeded	
ICD-10 AD	DITION	IAL EXTERNAL CAUSE CODE	
Rule ID	Level	Message	
9101	1	E-Code is not a valid ICD-10-CM code (ICD-10-CM only)	
9102	3	Additional External Cause Code ICD-10 must not be equal to Primary External	
9103	2	Element cannot be blank	
9104	1	E-Code is not a valid ICD-10-CA code (ICD-10-CA only)	
9105	2	ICD-10-CM T74 and T76 codes cannot be submitted as Additional External Cause Codes	
9106	2	Element cannot be "Not Applicable" or "Not Known/Not Recorded" along with any value	

9140 1 Multiple Entry Max exceeded

INCIDENT LOCATION ZIP/POSTAL CODE		
Rule ID	Level	Message
2001	1	Invalid value
2002	2	Element cannot be blank
2006	2	Element cannot be "Not Applicable"
2040	1	Single entry max exceeded

# **INCIDENT COUNTRY**

Rule ID	Level	Message
2101	1	Invalid value
2102	2	Element cannot be blank
2104	2	Element cannot be "Not Applicable"
2105	2	Element cannot be "Not Known/Not Recorded" when <i>Incident Location</i> <i>ZIP/Postal Code</i> is any response other than "Not Known/Not Recorded"
2140	1	Single Entry Max exceeded

#### **INCIDENT STATE**

Rule ID	Level	Message
2201	1	Invalid value
2203	2	Element cannot be blank
2204	2	Element must be "Not Applicable" (Non-US hospitals)
2205	2	Element must be "Not Applicable" when <i>Incident Location ZIP/Postal Code</i> is reported
2240	1	Single Entry Max exceeded

## **INCIDENT COUNTY**

Rule ID	Level	Message
2301	1	Invalid value (US only)
2303	2	Element cannot be blank
2304	2	Element must be "Not Applicable" (Non-US hospitals)
2305	2	Element must be "Not Applicable" when <i>Incident Location ZIP/Postal code</i> is reported
2340	1	Single Entry Max exceeded

INCIDENT	INCIDENT CITY		
Rule ID	Level	Message	
2401	1	Invalid value	
2403	2	Element cannot be blank	
2404	2	Element must be "Not Applicable" (Non-US hospitals)	
2405	2	Element must be "Not Applicable" when <i>Incident Location ZIP/Postal Code</i> is reported	
2440	1	Single Entry Max exceeded	

#### **PROTECTIVE DEVICES**

Rule ID	Level	Message
2501	1	Value is not a valid menu option
2502	2	Element cannot be blank
2507	2	Element cannot be "Not Applicable"
2508	2	Element cannot be "Not Known/Not Recorded" or <i>Element Value</i> "1. None" along with <i>Element Values</i> 2, 3, 4, 5, 6, 7, 8, 9, 10, and/ or 11
2550	1	Multiple Entry Max exceeded

#### **CHILD SPECIFIC RESTRAINT**

Rule ID	Level	Message
2601	1	Value is not a valid menu option
2603	2	Element cannot be blank
2604	2	Element cannot be "Not Applicable" when <i>Protective Devices</i> is "6. Child Restraint"
2640	1	Single Entry Max exceeded

#### AIRBAG DEPLOYMENT

Rule ID	Level	Message
2701	1	Value is not a valid menu option
2703	2	Element cannot be blank
2704	2	Element cannot be "Not Applicable" when <i>Protective Devices</i> is "8. Airbag Present"
2705	2	Element cannot be "Not Applicable" or "Not Known/Not Recorded" along with any other value
2750	1	Multiple Entry Max exceeded

# **PRE-HOSPITAL INFORMATION**

#### TRANSPORT MODE

Rule ID	Level	Message
3401	1	Value is not a valid menu option
3402	2	Element cannot be blank
3404	2	Element cannot be "Not Applicable"
3440	1	Single Entry Max exceeded

#### **OTHER TRANSPORT MODE**

Rule ID	Level	Message
3501	1	Value is not a valid menu option
3502	2	Element cannot be blank
3503	2	Element cannot be "Not Applicable" or "Not Known/Not Recorded" along with any other value
3550	1	Multiple Entry Max exceeded

# EMS PATIENT CARE REPORT UNIVERSALLY UNIQUE IDENTIFIER (UUID)

Rule ID	Level	Message
9901	1	Invalid value
9902	2	Element cannot be blank
9903	2	Element must be and can only be "Not Applicable" when Inter-Facility Transfer is Element Value "1" or Transport Mode is Element Values "4", "5", or" 6"
9940	1	Single Entry Max exceeded

#### **INTER-FACILITY TRANSFER**

Rule ID	Level	Message
4401	2	Element cannot be blank
4402	1	Value is not a valid menu option
4405	2	Element cannot be "Not Applicable"
4440	1	Single Entry Max exceeded

#### **PRE-HOSPITAL CARDIAC ARREST**

Rule ID	Level	Message
9701	1	Value is not a valid menu option
9702	2	Element cannot be blank
9703	2	Element cannot be "Not Applicable"
9740	1	Single Entry Max exceeded

# **EMERGENCY DEPARTMENT INFORMATION**

#### **HIGHEST ACTIVATION**

Rule ID	Level	Message
14201	1	Value is not a valid menu option
14202	2	Element cannot be blank
14240	1	Single Entry Max exceeded

#### TRAUMA SURGEON ARRIVAL DATE

Rule ID	Level	Message
14301	1	Date is not valid
14302	1	Date out of range
14303	2	Element cannot be blank
14340	1	Single Entry Max exceeded

#### TRAUMA SURGEON ARRIVAL TIME

Rule ID	Level	Message
14401	1	Time is not valid
14402	1	Time out of range
14403	2	Element cannot be blank
14440	1	Single Entry Max exceeded

## ED/HOSPITAL ARRIVAL DATE

Rule ID	Level	Message
4501	1	Date is not valid
4502	1	Date out of range
4503	2	Element cannot be blank
4505	2	Element cannot be "Not Known/Not Recorded"
4511	3	ED/Hospital Arrival Date is earlier than Date of Birth
4513	3	ED/Hospital Arrival Date occurs more than 14 days after Injury Incident Date
4515	2	Element cannot be "Not Applicable"
4516	3	ED/Hospital Arrival Date is earlier than Injury Incident Date
4540	1	Single Entry Max exceeded

ED/HOSPITAL ARRIVAL TIME		
Rule ID	Level	Message
4601	1	Time is not valid
4602	1	Time out of range
4603	2	Element cannot be blank
4609	2	Element cannot be "Not Applicable"
4610	3	ED/Hospital Arrival Time is earlier than Injury Incident Time
4640	1	Single Entry Max exceeded

# INITIAL ED/HOSPITAL SYSTOLIC BLOOD PRESSURE

Rule ID	Level	Message
4701	1	Invalid value
4702	2	Element cannot be blank
4704	3	The value is above 220
4705	2	Element cannot be "Not Applicable"
4706	2	The value submitted falls outside the valid range of 0-380
4707	3	The value is below 30
4740	1	Single Entry Max exceeded

# INITIAL ED/HOSPITAL PULSE RATE

Rule ID	Level	Message
4801	1	Invalid value
4802	2	Element cannot be blank
4804	3	The value is above 220
4805	2	Element cannot be "Not Applicable"
4806	2	The value submitted falls outside the valid range of 0-300
4807	3	The value is below 30
4840	1	Single Entry Max exceeded

# INITIAL ED/HOSPITAL TEMPERATURE

Rule ID	Level	Message
4901	1	Invalid value
4902	2	Element cannot be blank
4903	3	The value is above 42.0
4904	2	Element cannot be "Not Applicable"
4905	2	The value submitted falls outside the valid range of 10.0-45.0
4906	3	The value is below 20.0
4940	1	Single Entry Max exceeded

INITIAL ED/HOSPITAL RESPIRATORY RATE			
Rule ID	Level	Message	
5001	1	Invalid value	
5002	2	Element cannot be blank	
5005	2	The value submitted falls outside the valid range of 0-100	
5006	2	Element cannot be "Not Applicable"	
5007	3	The value is below 5	
5008	3	The value is above 75	
5040	1	Single Entry Max exceeded	

# INITIAL ED/HOSPITAL RESPIRATORY ASSISTANCE

Rule ID	Level	Message
5101	1	Value is not a valid menu option
5102	2	Element cannot be blank
5103	2	Element must be "Not Applicable" when <i>Initial ED/Hospital Respiratory Rate</i> is "Not Known/Not Recorded"
5140	1	Single Entry Max exceeded

# INITIAL ED/HOSPITAL OXYGEN SATURATION

Rule ID	Level	Message
5201	1	Invalid value
5202	2	Element cannot be blank
5205	2	Element cannot be "Not Applicable"
5206	2	The value submitted falls outside the valid range of 0-100
5207	3	The value is below 40
5240	1	Single Entry Max exceeded

# INITIAL ED/HOSPITAL SUPPLEMENTAL OXYGEN

Rule ID	Level	Message
5301	1	Value is not a valid menu option
5303	2	Element cannot be blank
5304	2	Element must be "Not Applicable" when <i>Initial ED/Hospital Oxygen Saturation</i> is "Not Known/Not Recorded"
5340	1	Single Entry Max exceeded

INITIAL ED/HOSPITAL GCS-EYE			
Rule ID	Level	Message	
5401	1	Value is not a valid menu option	
5403	2	Element cannot be blank	
5404	2	Element cannot be "Not Applicable"	
5405	2	Element must be "Not Known/Not Recorded" when <i>Initial ED/Hospital GCS 40 – Eye</i> is reported.	
5440	1	Single Entry Max exceeded	

# INITIAL ED/HOSPITAL GCS-VERBAL

Rule ID	Level	Message
5501	1	Value is not a valid menu option
5503	2	Element cannot be blank
5504	2	Element cannot be "Not Applicable"
5505	2	Element must be "Not Known/Not Recorded" when <i>Initial ED/Hospital GCS 40 - Verbal</i> is reported.
5540	1	Single Entry Max exceeded

# INITIAL ED/HOSPITAL GCS-MOTOR

Rule ID	Level	Message
5601	1	Value is not a valid menu option
5603	2	Element cannot be blank
5604	2	Element cannot be "Not Applicable"
5605	2	Element must be "Not Known/Not Recorded" when <i>Initial ED/Hospital GCS 40 - Motor</i> is reported
5640	1	Single Entry Max exceeded

# INITIAL ED/HOSPITAL GCS-TOTAL

Rule ID	Level	Message
5701	1	GCS Total is outside the valid range of 3 - 15
5703	3	<i>Initial ED/Hospital GCS - Total</i> does not equal the sum of <i>Initial ED/Hospital GCS - Eye</i> , <i>Initial ED/Hospital GCS - Verbal</i> , and <i>Initial ED/Hospital GCS – Motor</i> , unless any of these values are "Not Known/Not Recorded"
5705	2	Element cannot be blank
5706	2	Element cannot be "Not Applicable"
5707	2	Element must be "Not Known/Not Recorded" when <i>Initial ED/Hospital GCS 40 – Eye,</i> <i>Initial ED/Hospital GCS 40 – Verbal</i> , or <i>Initial ED/Hospital GCS 40 – Motor</i> are reported.
5740	1	Single Entry Max exceeded

INITIAL ED/HOSPITAL GCS ASSESSMENT QUALIFIERS		
Rule ID	Level	Message
5801	1	Value is not a valid menu option
5802	2	Element cannot be blank
5803	2	Element cannot be "Not Applicable"
5804	2	Element must be "Not Known/Not Recorded" when <i>Initial ED/Hospital GCS 40 – Eye</i> , <i>Initial ED/Hospital GCS 40 – Verbal</i> , or <i>Initial ED/Hospital GCS 40 – Motor</i> are reported.
5805	2	Element cannot be "Not Known/Not Recorded" along with any other value
5850	1	Multiple Entry Max exceeded

# INITIAL ED/HOSPITAL GCS 40-EYE

Rule ID	Level	Message
15301	1	Value is not a valid menu option
15303	2	Element cannot be blank
15304	2	Element cannot be "Not Applicable"
15305	2	Element must be "Not Known/Not Recorded" when <i>Initial ED/Hospital GCS – Eye</i> is reported.
15340	1	Single Entry Max exceeded

# INITIAL ED/HOSPITAL GCS 40-VERBAL

Rule ID	Level	Message
15401	1	Value is not a valid menu option
15403	2	Element cannot be blank
15404	2	Element cannot be "Not Applicable"
15405	2	Element must be "Not Known/Not Recorded" when <i>Initial ED/Hospital GCS – Verbal</i> is reported.
15440	1	Single Entry Max exceeded

# INITIAL ED/HOSPITAL GCS 40-MOTOR

Rule ID	Level	Message
15501	1	Value is not a valid menu option
15503	2	Element cannot be blank
15504	2	Element cannot be "Not Applicable"
15505	2	Element must be "Not Known/Not Recorded" when <i>Initial ED/Hospital GCS – Motor</i> is reported.
15540	1	Single Entry Max exceeded

INITIAL ED/HOSPITAL HEIGHT		
Rule ID	Level	Message
8501	1	Invalid value
8502	2	Element cannot be blank
8503	3	The value is above 215
8504	2	Element cannot be "Not Applicable"
8505	2	The value submitted falls outside the valid range of 30-275
8506	3	The value is below 50
8540	1	Single Entry Max exceeded

# INITIAL ED/HOSPITAL WEIGHT

Rule ID	Level	Message
8601	1	Invalid value
8602	2	Element cannot be blank
8603	3	The value is above 200
8604	2	Element cannot be "Not Applicable"
8605	2	The value submitted falls outside the valid range 1-650
8606	3	The value is below 3
8640	1	Single Entry Max exceeded

#### **DRUG SCREEN**

Rule ID	Level	Message
6011	1	Value is not a valid menu option
6012	2	Element cannot be blank
6013	2	Element cannot be "Not Applicable"
6014	2	Element cannot be "Not Known/Not Recorded", <i>Element Value</i> "14. None", or "15. Not Tested" along with <i>Element Values</i> 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, and/or 13
6050	1	Multiple Entry Max exceeded

#### **ALCOHOL SCREEN**

Rule ID	Level	Message
5911	1	Value is not a valid menu option
5912	2	Element cannot be blank
5913	2	Element cannot be "Not Applicable"
5940	1	Single Entry Max exceeded

ALCOHOL SCREEN RESULTS		
Rule ID	Level	Message
5931	1	Invalid value
5932	2	Element cannot be blank
5933	2	Element cannot be "Not Applicable" when <i>Alcohol Screen</i> is <i>Element Value</i> "1. Yes"
5935	2	The value submitted falls outside the valid range of 0.0-1.5
5936	3	The value is above 0.4
5934	1	Single Entry Max exceeded

#### **ED DISCHARGE DISPOSITION**

Rule ID	Level	Message
6101	1	Value is not a valid menu option
6102	2	Element cannot be blank
6104	2	Element cannot be "Not Known/Not Recorded"
6140	1	Single Entry Max exceeded

#### **ED DISCHARGE DATE**

Rule ID	Level	Message
6301	1	Date is not valid
6302	1	Date out of range
6303	2	Element cannot be blank
6307	2	ED Discharge Date is earlier than ED/Hospital Arrival Date
6310	3	ED Discharge Date occurs more than 365 days after ED/Hospital Arrival Date
6311	2	Element must be and can only be "Not Applicable" when <i>ED Discharge Disposition</i> is "Not Applicable"
6312	3	ED Discharge Date is earlier than Injury Incident Date
6313	2	If <i>Hospital Discharge Disposition</i> is "Not Applicable" then <i>ED Discharge Date</i> cannot be earlier than <i>Hospital Procedure Start Date</i>
6314	3	Hospital Discharge Disposition is "Not Applicable" and ED Discharge Date is earlier than Cerebral Monitor Date
6315	2	If Hospital Discharge Disposition is "Not Applicable" then ED Discharge Date cannot be earlier than Venous Thromboembolism Prophylaxis Date
6316	2	If <i>Hospital Discharge Disposition</i> is "Not Applicable" then <i>ED Discharge Date</i> cannot be earlier than <i>Angiography Date</i>
6317	2	If <i>Hospital Discharge Disposition</i> is "Not Applicable" then <i>ED Discharge Date</i> cannot be earlier than <i>Surgery For Hemorrhage Control Date</i>
6318	2	If <i>Hospital Discharge Disposition</i> is "Not Applicable" then <i>ED Discharge Date</i> cannot be earlier than <i>Withdrawal of Life Supporting Treatment Date</i>
6319	2	If <i>Hospital Discharge Disposition</i> is "Not Applicable" then <i>ED Discharge Date</i> cannot be earlier than <i>Antibiotic Therapy Date</i>
6340	1	Single Entry Max exceeded
APPENDIX	(2	A2.16

ED DISCHARGE TIME				
Rule ID	Level	Message		
6401	1	Time is not valid		
6402	1	Time out of range		
6403	2	Element cannot be blank		
6407	2	ED Discharge Time is earlier than ED/Hospital Arrival Time		
6409	2	Element must be and can only be "Not Applicable" when <i>ED Discharge Date</i> is "Not Applicable"		
6410	3	Element must be "Not Known/Not Recorded" when <i>ED Discharge Date</i> is "Not Known/Not Recorded"		
6411	3	ED Discharge Time is earlier than Injury Incident Time		
6412	2	If <i>Hospital Discharge Disposition</i> is "Not Applicable" then <i>ED Discharge Time</i> cannot be earlier than <i>Hospital Procedure Start Time</i>		
6413	3	Hospital Discharge Disposition is "Not Applicable" and ED Discharge Time is earlier than Cerebral Monitor Time		
6414	2	If <i>Hospital Discharge Disposition</i> is "Not Applicable" then <i>ED Discharge Time</i> cannot be earlier than <i>Venous Thromboembolism Prophylaxis Time</i>		
6415	2	If <i>Hospital Discharge Disposition</i> is "Not Applicable" then <i>ED Discharge Time</i> cannot be earlier than <i>Angiography Time</i>		
6416	2	If <i>Hospital Discharge Disposition</i> is "Not Applicable" then <i>ED Discharge Time</i> cannot be earlier than <i>Surgery For Hemorrhage Control Time</i>		
6417	2	If <i>Hospital Discharge Disposition</i> is "Not Applicable" then <i>ED Discharge Time</i> cannot be earlier than <i>Withdrawal of Life Supporting Treatment Time</i>		
6418	2	If <i>Hospital Discharge Disposition</i> is "Not Applicable" then <i>ED Discharge Time</i> cannot be earlier than <i>Antibiotic Therapy Time</i>		
6440	1	Single Entry Max exceeded		

# **HOSPITAL PROCEDURE INFORMATION**

# **ICD-10 HOSPITAL PROCEDURES**

Rule ID	Level	Vlessage	
8801	1	Invalid Value (ICD-10 PCS only)	
8803	2	Element cannot be blank	
8804	2	Element must not be "Not Applicable" or "Not Known/Not Recorded" along with any other value	
8805	1	Invalid value (ICD-10-CA only)	
8850	1	Multiple Entry Max exceeded	

#### **HOSPITAL PROCEDURE START DATE**

Rule ID	Level	Message
6601	1	Date is not valid
6602	1	Date out of range
6606	3	Hospital Procedure Start Date is earlier than ED/Hospital Arrival Date
6609	2	Element cannot be blank
6610	2	Element must be and can only be "Not Applicable" when <i>ICD-10 Hospital</i> <i>Procedures</i> is "Not Applicable"
6611	2	Element must be "Not Known/Not Recorded" when <i>ICD-10 Hospital Procedures</i> is "Not Known/Not Recorded"
6650	1	Multiple Entry Max exceeded

#### **HOSPITAL PROCEDURE TIME**

Rule ID	Level	Message	
6701	1	Fime is not valid	
6702	1	Time out of range	
6706	3	Hospital Procedure Start Time is earlier than ED/Hospital Arrival Time	
6708	2	Element cannot be blank	
6709	2	Element must be and can only be "Not Applicable" when <i>Hospital Procedure</i> <i>Start Date</i> is "Not Applicable"	
6710	2	Element must be "Not Known/Not Recorded" when <i>Hospital Procedure</i> <i>Start Date</i> is "Not Known/Not Recorded"	
6750	1	Multiple Entry Max exceeded	

# **PRE-EXISTING CONDITIONS**

#### ADVANCED DIRECTIVE LIMITING CARE

Rule ID	Level	Message
16001	1	Value is not a valid menu option
16003	2	Element cannot be blank
16004	2	Element cannot be "Not Applicable"
16040	1	Single Entry Max exceeded

#### **ALCOHOL USE DISORDER**

Rule ID	Level	Message
16101	1	Value is not a valid menu option
16103	2	Element cannot be blank
16104	2	Element cannot be "Not Applicable"
16140	1	Single Entry Max exceeded

#### **ANGINA PECTORIS**

Rule ID	Level	Message	
16201	1	Value is not a valid menu option	
16203	2	Element cannot be blank	
16204	2	Element cannot be "Not Applicable"	
16240	1	Single Entry Max exceeded	

#### **ANTICOAGULANT THERAPY**

Rule ID	Level	Message	
16301	1	Value is not a valid menu option	
16303	2	Element cannot be blank	
16304	2	Element cannot be "Not Applicable"	
16340	1	Single Entry Max exceeded	

# ATTENTION DEFICIT DISORDER/ATTENTION DEFICIT HYPERACTIVITY DISORDER (ADHD)

Rule ID	Level	Message	
16401	1	Value is not a valid menu option	
16403	2	Element cannot be blank	
16404	2	Element cannot be "Not Applicable"	
16440	1	Single Entry Max exceeded	

BLEEDING DISORDER		
Rule ID	Level	Message
16501	1	Value is not a valid menu option
16503	2	Element cannot be blank
16504	2	Element cannot be "Not Applicable"
16540	1	Single Entry Max exceeded

# CEREBRAL VASCULAR ACCIDENT (CVA)

Rule ID	Level	Message
16601	1	Value is not a valid menu option
16603	2	Element cannot be blank
16604	2	Element cannot be "Not Applicable"
16640	1	Single Entry Max exceeded

# CHRONIC OBSTRUCTIVE PULMONARY DISEASE (COPD)

Rule ID	Level	Message	
16701	1	Value is not a valid menu option	
16703	2	Element cannot be blank	
16704	2	Element cannot be "Not Applicable"	
16740	1	Single Entry Max exceeded	

#### **CHRONIC RENAL FAILURE**

Rule ID	Level	Message
16801	1	Value is not a valid menu option
16803	2	Element cannot be blank
16804	2	Element cannot be "Not Applicable"
16840	1	Single Entry Max exceeded

## CIRRHOSIS

Rule ID	Level	Message
16901	1	Value is not a valid menu option
16903	2	Element cannot be blank
16904	2	Element cannot be "Not Applicable"
16940	1	Single Entry Max exceeded

# CONGENITAL ANOMALIESRule IDLevelMessage170011Value is not a valid menu option170032Element cannot be blank170042Element cannot be "Not Applicable"170401Single Entry Max exceeded

# **CONGESTIVE HEART FAILURE (CHF)**

Rule ID	Level	Message
17101	1	Value is not a valid menu option
17103	2	Element cannot be blank
17104	2	Element cannot be "Not Applicable"
17140	1	Single Entry Max exceeded

#### **CURRENT SMOKER**

Rule ID	Level	Message
17201	1	Value is not a valid menu option
17203	2	Element cannot be blank
17204	2	Element cannot be "Not Applicable"
17240	1	Single Entry Max exceeded

#### **CURRENTLY RECEIVING CHEMOTHERAPY FOR CANCER**

Rule ID	Level	Message
17301	1	Value is not a valid menu option
17303	2	Element cannot be blank
17304	2	Element cannot be "Not Applicable"
17340	1	Single Entry Max exceeded

#### DEMENTIA

Rule ID	Level	Message
17401	1	Value is not a valid menu option
17403	2	Element cannot be blank
17404	2	Element cannot be "Not Applicable"
17440	1	Single Entry Max exceeded

DIABETES MELLITUS			
Level	Message		
1	Value is not a valid menu option		
2	Element cannot be blank		
2	Element cannot be "Not Applicable"		
1	Single Entry Max exceeded		
	.evel 1 2		

### **DISSEMINATED CANCER**

Rule ID	Level	Message
17601	1	Value is not a valid menu option
17603	2	Element cannot be blank
17604	2	Element cannot be "Not Applicable"
17640	1	Single Entry Max exceeded

#### FUNCTIONALLY DEPENDENT HEALTH STATUS

Rule ID	Level	Message
17701	1	Value is not a valid menu option
17703	2	Element cannot be blank
17704	2	Element cannot be "Not Applicable"
17740	1	Single Entry Max exceeded

#### **HYPERTENSION**

Rule ID	Level	Message
17801	1	Value is not a valid menu option
17803	2	Element cannot be blank
17804	2	Element cannot be "Not Applicable"
17840	1	Single Entry Max exceeded

# **MENTAL/PERSONALITY DISORDERS**

Rule ID	Level	Message
17901	1	Value is not a valid menu option
17903	2	Element cannot be blank
17904	2	Element cannot be "Not Applicable"
17940	1	Single Entry Max exceeded

#### **MYOCARDIAL INFARCTION (MI) Rule ID** Level Message 18001 1 Value is not a valid menu option 18003 2 Element cannot be blank Element cannot be "Not Applicable" 18004 2 18040 1 Single Entry Max exceeded

## **PERIPHERAL ARTERIAL DISEASE (PAD)**

Rule ID	Level	Message
18101	1	Value is not a valid menu option
18103	2	Element cannot be blank
18104	2	Element cannot be "Not Applicable"
18140	1	Single Entry Max exceeded

#### PREGNANCY

Rule ID	Level	Message
21501	1	Value is not a valid menu option
21503	2	Element cannot be blank
21504	2	Element cannot be "Not Applicable"
21540	1	Single Entry Max exceeded

#### PREMATURITY

Rule ID	Level	Message
18201	1	Value is not a valid menu option
18203	2	Element cannot be blank
18204	2	Element cannot be "Not Applicable"
18240	1	Single Entry Max exceeded

#### **STEROID USE**

Rule ID	Level	Message
18301	1	Value is not a valid menu option
18303	2	Element cannot be blank
18304	2	Element cannot be "Not Applicable"
18340	1	Single Entry Max exceeded

SUBSTANCE USE DISORDER				
Rule ID	Level	Message		
18401	1	Value is not a valid menu option		
18403	2	Element cannot be blank		
18404	2	Element cannot be "Not Applicable"		
18440	1	Single Entry Max exceeded		

# **DIAGNOSIS INFORMATION**

### **ICD-10 INJURY DIAGNOSES**

Rule ID	Level	Message
8701	1	Invalid value (ICD-10-CM only)
8702	2	Element cannot be blank
8703	2	At least one diagnosis must be provided and meet inclusion criteria. (ICD-10-CM only)
8705	1	Invalid value (ICD-10-CA only)
8706	2	At least one diagnosis must be provided and meet inclusion criteria. (ICD-10-CA only)
8707	2	Element cannot be "Not Applicable" or "Not Known/Not Recorded" along with any other value
8750	1	Multiple Entry Max exceeded

#### **AIS CODE**

Rule ID	Level	Message
21001	1	Invalid value
21004	2	AIS codes submitted are not valid AIS 05, Update 08, or AIS 2015 codes
21007	2	Element cannot be blank
21008	2	Element cannot be "Not Applicable"
21009	2	Element cannot be "Not Known/Not Recorded" along with any other value
21050	1	Multiple Entry Max exceeded

### **AIS VERSION**

Rule ID	Level	Message
7301	1	Value is not a valid menu option
7302	2	Element cannot be blank
7303	2	Element cannot be "Not Applicable"
7340	1	Single Entry Max exceeded

# **HOSPITAL EVENTS**

# ACUTE KIDNEY INJURY (AKI)

Rule ID	Level	Message
18501	1	Value is not a valid menu option
18503	2	Element cannot be blank
18504	2	Element cannot be "Not Applicable"
18540	1	Single Entry Max exceeded

### **ACUTE RESPIRATORY DISTRESS SYNDROME (ARDS)**

	.evel	Message
18601	1	Value is not a valid menu option
18603	2	Element cannot be blank
18604	2	Element cannot be "Not Applicable"
18640	1	Single Entry Max exceeded

#### ALCOHOL WITHDRAWAL SYNDROME

Rule ID	Level	Message
18701	1	Value is not a valid menu option
18703	2	Element cannot be blank
18704	2	Element cannot be "Not Applicable"
18740	1	Single Entry Max exceeded

### CARDIAC ARREST WITH CPR

Rule ID	Level	Message
18801	1	Value is not a valid menu option
18803	2	Element cannot be blank
18804	2	Element cannot be "Not Applicable"
18840	1	Single Entry Max exceeded

# CATHERTER-ASSOCIATED URINARY TRACT INFECTION (CAUTI)

Rule ID	Level	Message
18901	1	Value is not a valid menu option
18903	2	Element cannot be blank
18904	2	Element cannot be "Not Applicable"
18940	1	Single Entry Max exceeded

CENTRAL LINE-ASSOCIATED BLOOD STREAM INFECTION (CLABSI)			
Rule ID	Level	Message	
19001	1	Value is not a valid menu option	
19003	2	Element cannot be blank	
19004	2	Element cannot be "Not Applicable"	
19040	1	Single Entry Max exceeded	

### **DEEP SURGICAL SITE INFECTION**

Rule ID	Level	Message
19101	1	Value is not a valid menu option
19103	2	Element cannot be blank
19104	2	Element cannot be "Not Applicable"
19140	1	Single Entry Max exceeded

## **DEEP VEIN THROMBOSIS (DVT)**

Rule ID	Level	Message
19201	1	Value is not a valid menu option
19203	2	Element cannot be blank
19204	2	Element cannot be "Not Applicable"
19240	1	Single Entry Max exceeded

#### DELIRIUM

Rule ID	Level	Message
21601	1	Value is not a valid menu option
21603	2	Element cannot be blank
21604	2	Element cannot be "Not Applicable"
21640	1	Single Entry Max exceeded

### **EXTREMITY COMPARTMENT SYNDROME**

Rule ID	Level	Message
19301	1	Value is not a valid menu option
19303	2	Element cannot be blank
19304	2	Element cannot be "Not Applicable"
19340	1	Single Entry Max exceeded

MYOCARDIAL INFARCTION (MI)		
Rule ID	Level	Message
19401	1	Value is not a valid menu option
19403	2	Element cannot be blank
19404	2	Element cannot be "Not Applicable"
19440	1	Single Entry Max exceeded

# ORGAN/SPACE SURGICAL SITE INFECTION

Rule ID	Level	Message
19501	1	Value is not a valid menu option
19503	2	Element cannot be blank
19504	2	Element cannot be "Not Applicable"
19540	1	Single Entry Max exceeded

#### **OSTEOMYELITIS**

Rule ID	Level	Message
19601	1	Value is not a valid menu option
19603	2	Element cannot be blank
19604	2	Element cannot be "Not Applicable"
19640	1	Single Entry Max exceeded

# PULMONARY EMBOLISM (PE)

Rule ID	Level	Message
19701	1	Value is not a valid menu option
19703	2	Element cannot be blank
19704	2	Element cannot be "Not Applicable"
19740	1	Single Entry Max exceeded

#### **PRESSURE ULCER**

Rule ID	Level	Message
19801	1	Value is not a valid menu option
19803	2	Element cannot be blank
19804	2	Element cannot be "Not Applicable"
19840	1	Single Entry Max exceeded

SEVERE SE	PSIS	
Rule ID	Level	Message
19901	1	Value is not a valid menu option
19903	2	Element cannot be blank
19904	2	Element cannot be "Not Applicable"
19940	1	Single Entry Max exceeded

# STROKE/CVA

Rule ID	Level	Message
20001	1	Value is not a valid menu option
20003	2	Element cannot be blank
20004	2	Element cannot be "Not Applicable"
20040	1	Single Entry Max exceeded

#### SUPERFICIAL INCISIONAL SURGICAL SITE INFECTION

Rule ID	Level	Message
20101	1	Value is not a valid menu option
20103	2	Element cannot be blank
20104	2	Element cannot be "Not Applicable"
20140	1	Single Entry Max exceeded

#### **UNPLANNED ADMISSION TO ICU**

Rule ID	Level	Message
20201	1	Value is not a valid menu option
20203	2	Element cannot be blank
20204	2	Element cannot be "Not Applicable"
20240	1	Single Entry Max exceeded

#### **UNPLANNED INTUBATION**

Rule ID	Level	Message
20301	1	Value is not a valid menu option
20303	2	Element cannot be blank
20304	2	Element cannot be "Not Applicable"
20340	1	Single Entry Max exceeded

UNPLANN	ED VISIT	TO THE OPERATING ROOM
Rule ID	Level	Message
21701	1	Value is not a valid menu option
21703	2	Element cannot be blank
21704	2	Element cannot be "Not Applicable"
21740	1	Single Entry Max exceeded

### **VENTILATOR-ASSOCIATED PNEUMONIA (VAP)**

Rule ID	Level	Message
20501	1	Value is not a valid menu option
20503	2	Element cannot be blank
20504	2	Element cannot be "Not Applicable"
20540	1	Single Entry Max exceeded
20540	1	Single Entry Max exceeded

# **OUTCOME INFORMATION**

#### TOTAL ICU LENGTH OF STAY

Rule ID	Level	Message
7501	1	Invalid value
7502	2	Element cannot be blank
7503	2	<i>Total ICU Length of Stay</i> is greater than the difference between <i>ED/Hospital Arrival Date</i> and <i>Hospital Discharge Date</i>
7504	3	The value is above 60
7505	2	The value submitted falls outside the valid range of 1-575
7540	1	Single Entry Max exceeded

#### **TOTAL VENTILATOR DAYS**

Rule ID	Level	Message
7601	1	Invalid value
7602	2	Element cannot be blank
7603	2	<i>Total Ventilator Days</i> is greater than the difference between <i>ED/Hospital Arrival Date</i> and <i>Hospital Discharge Date</i>
7604	3	The value is above 60
7605	2	The value submitted falls outside the valid range of 1-575
7640	1	Single Entry Max exceeded

HOSPITAL DISCHARGE DISPOSITION		
Rule ID	Level	Message
7901	1	Value is not a valid menu option
7902	2	Element cannot be blank
7907	2	Element must be and can only be "Not Applicable" when ED Discharge Disposition
		is Element Values 4, 5, 6, 9, 10, or 11
7909	2	Element cannot be "Not Known/Not Recorded"
7940	1	Single Entry Max exceeded

#### **HOSPITAL DISCHARGE DATE**

Rule ID	Level	Message
7701	1	Date is not valid
7702	1	Date out of range
7703	2	Element cannot be blank
7707	2	Hospital Discharge Date cannot be earlier than ED/Hospital Arrival Date
7708	2	Hospital Discharge Date cannot be earlier than ED Discharge Date
7711	3	Hospital Discharge Date occurs more than 365 days after ED/Hospital Arrival Date
7713	2	Element must be and can only be "Not Applicable" when <i>Hospital Discharge</i> <i>Disposition</i> is "Not Applicable"
7714	3	Hospital Discharge Date is earlier than Injury Incident Date
7715	2	Hospital Discharge Date is earlier than Hospital Procedure Start Date
7716	2	Hospital Discharge Date is earlier than Cerebral Monitor Date
7717	2	Hospital Discharge Date is earlier than Venous Thromboembolism Prophylaxis Date
7718	2	Hospital Discharge Date is earlier than Angiography Date
7719	2	Hospital Discharge Date is earlier than Surgery for Hemorrhage Control Date
7720	2	Hospital Discharge Date cannot be earlier than Withdrawal of Life Supporting Treatment Date
7721	3	Hospital Discharge Date is earlier than Antibiotic Therapy Date
7740	1	Single Entry Max exceeded

HOSPITAL DISCHARGE TIME		
Rule ID	Level	Message
7801	1	Time is not valid
7802	1	Time out of range
7803	2	Element cannot be blank
7807	2	Hospital Discharge Time cannot be earlier than ED/Hospital Arrival Time
7808	2	Hospital Discharge Time cannot be earlier than or equal to ED Discharge Time
7810	2	Element must be and can only be "Not Applicable" when <i>Hospital Discharge Date</i> is "Not Applicable"
7811	2	Element must be "Not Known/Not Recorded" when <i>Hospital Discharge Date</i> is "Not Known/Not Recorded"
7812	3	Hospital Discharge Time is earlier than Injury Incident Time
7813	2	Hospital Discharge Time is earlier than Hospital Procedure Start Time
7814	2	Hospital Discharge Time is earlier than Cerebral Monitor Time
7815	2	Hospital Discharge Time is earlier than Venous Thromboembolism Prophylaxis Time
7816	2	Hospital Discharge Time is earlier than Angiography Time
7817	2	Hospital Discharge Time is earlier than Surgery for Hemorrhage Control Time
7818	2	Hospital Discharge Time cannot be earlier than Withdrawal of Life Supporting Treatment Time
7819	3	Hospital Discharge Time is earlier than Antibiotic Therapy Time
7840	1	Single Entry Max exceeded

# **FINANCIAL INFORMATION**

#### **PRIMARY METHOD OF PAYMENT**

Rule ID	Level	Message
8001	1	Value is not a valid menu option
8002	2	Element cannot be blank
8003	2	Element cannot be "Not Applicable"
8040	1	Single Entry Max exceeded

# TQIP MEASURES FOR PROCESS OF CARE

#### **HIGHEST GCS TOTAL**

Rule ID	Level	Message
10001	1	GCS Total is outside the valid range of 3 - 15
10002	2	Element cannot be blank
10003	2	Highest GCS Total is less than GCS Motor Component of Highest GCS Total
10004	2	Element must be "Not Applicable" as the AIS codes provided do not meet the reporting criterion
10005	2	Element must not be "Not Applicable" as the AIS codes provided meet the reporting criterion, unless the patients <i>ED Discharge Date</i> or <i>Hospital Discharge Date</i> is prior to the next calendar day
10006	2	Element must be "Not Known/Not Recorded" when <i>Highest GCS 40 – Motor</i> is reported.
10007	1	Invalid Value
10008	2	Element must be "Not Applicable" as the patient was discharged on the same date as <i>ED/Hospital Arrival Date</i>
10040	1	Single Entry Max exceeded

#### **HIGHEST GCS MOTOR**

Rule ID	Level	Message
10101	1	Value is not a valid menu option
10102	2	Element cannot be blank
10104	2	Element must be "Not Applicable" as the AIS codes provided do not meet the reporting criterion
10105	2	Element must not be "Not Applicable" as the AIS codes provided meet the reporting criterion, unless the patients <i>ED Discharge Date</i> or <i>Hospital Discharge Date</i> is prior to the next calendar day
10106	2	Element must be "Not Known/Not Recorded" when <i>Highest GCS 40 – Motor</i> is reported.
10107	2	Element must be "Not Applicable" as the patient was discharged on the same date as <i>ED/Hospital Arrival Date</i>
10140	1	Single Entry Max exceeded

GCS ASSESSMENT QUALIFIER COMPONENT OF HIGHEST GCS TOTAL			
Rule ID	Level	Message	
10201	1	Value is not a valid menu option	
10202	2	Element cannot be blank	
10203	2	Element must be "Not Applicable" as the AIS codes provided do not meet the reporting criterion	
10204	2	Element must not be "Not Applicable" as the AIS codes provided meet the reporting criterion, unless the patients <i>ED Discharge Date</i> or <i>Hospital Discharge Date</i> is prior to the next calendar day	
10206	2	Element must be "Not Known/Not Recorded" when <i>Highest GCS 40 – Motor</i> is reported.	
10207	2	Element cannot be "Not Applicable" or "Not Known/Not Recorded" along with any other value	
10208	2	Element must be "Not Applicable" as the patient was discharged on the same date as <i>ED/Hospital Arrival Date</i>	
10250	1	Multiple Entry Max exceeded	

## HIGHEST GCS 40 - MOTOR

Rule ID	Level	Message
20601	1	Value is not a valid menu option
20602	2	Element cannot be blank
20604	2	Element must be "Not Applicable" as the AIS codes provided do not meet the reporting criterion
20605	2	Element must not be "Not Applicable" as the AIS codes provided meet the reporting criterion, unless the patients <i>ED Discharge Date</i> or <i>Hospital Discharge Date</i> is prior to the next calendar day
20606	2	Element must be "Not Known/Not Recorded" when <i>Highest GCS - Motor</i> is reported
20607	2	Element must be "Not Applicable" as the patient was discharged on the same date as <i>ED/Hospital Arrival Date</i>
20640	1	Single Entry Max exceeded

## INITIAL ED/HOSPITAL PUPILLARY RESPONSE

Rule ID	Level	Message
13601	1	Value is not a valid menu option
13602	2	Element cannot be blank
13603	2	Element must be "Not Applicable" as the AIS codes provided do not meet the reporting criterion
13604	2	Element must not be "Not Applicable" as the AIS codes provided meet the reporting criterion
13640	1	Single Entry Max exceeded

#### **APPENDIX 2**

MIDLINE SHIFT		
Rule ID	Level	Message
13701	1	Value is not a valid menu option
13702	2	Element cannot be blank
13703	2	Element must be "Not Applicable" as the AIS codes provided do not meet the reporting criterion
13704	2	Element must not be "Not Applicable" as the AIS codes provided meet the reporting criterion
13740	1	Single Entry Max exceeded

#### **CEREBRAL MONITOR**

Rule ID	Level	Message
10301	1	Value is not a valid menu option
10302	2	Element cannot be blank
10304	2	Element must be "Not Applicable" as the AIS codes provided do not meet the reporting criterion
10305	2	Element must not be "Not Applicable" as the AIS codes provided meet the reporting criterion
10306	2	Element cannot be "Not Applicable", "Not Known/Not Recorded", or <i>Element Value</i> "5. None" along with <i>Element Values</i> 1, 2, 3, and/or 4
10350	1	Multiple Entry Max exceeded

#### **CEREBRAL MONITOR DATE**

Rule ID	Level	Message
10401	1	Date is not valid
10402	2	Element cannot be blank
10403	1	Date out of range
10405	3	Element should not be "Not Known/Not Recorded" when <i>Cerebral Monitor</i> is <i>Element Values</i> 1, 2, 3, and/or 4
10407	3	<i>Cerebral Monitor Date</i> should not be earlier than <i>ED/Hospital Arrival Date</i> unless placed at referring facility and used for monitoring
10409	2	Element must be and can only be "Not Applicable" when <i>Cerebral Monitor</i> is "Not Applicable" or <i>Element Value</i> "5. None"
10410	2	Element must be "Not Known/Not Recorded" when <i>Cerebral Monitor</i> is "Not Known/Not Recorded"
10440	1	Single Entry Max exceeded

CEREBRAL MONITOR TIME			
Rule ID	Level	Message	
10501	1	Time is not valid	
10502	1	Time out of range	
10503	2	Element cannot be blank	
10505	3	Element should not be "Not Known/Not Recorded" when <i>Cerebral Monitor</i> is <i>Element Values</i> 1, 2, 3, and/or 4	
10506	3	<i>Cerebral Monitor Time</i> should not be earlier than <i>ED/Hospital Arrival Time</i> unless placed at referring facility and used for monitoring	
10509	2	Element must be and can only be "Not Applicable" when <i>Cerebral Monitor Date</i> is "Not Applicable"	
10510	2	Element must be "Not Known/Not Recorded" when <i>Cerebral Monitor Date</i> is "Not Known/Not Recorded"	
10540	1	Single Entry Max exceeded	

#### VENOUS THROMBOEMBOLISM PROPHYLAXIS TYPE

Rule ID	Level	Message
10601	1	Value is not a valid menu option
10602	2	Element cannot be blank
10603	2	Element cannot be "Not Applicable"
10640	1	Single Entry Max exceeded

#### VENOUS THROMBOEMBOLISM PROPHYLAXIS DATE

Rule ID	Level	Message
10701	1	Date is not valid
10702	1	Date out of range
10703	2	Element cannot be blank
10706	2	Venous Thromboembolism Prophylaxis Date is earlier than ED/Hospital Arrival Date
10708	2	Element must be and can only be "Not Applicable" when <i>Venous</i> <i>Thromboembolism Prophylaxis Type</i> is <i>Element Value</i> "5. None"
10709	2	Element must be "Not Known/Not Recorded" when <i>Venous</i> <i>Thromboembolism Prophylaxis Type</i> is "Not Known/Not Recorded"
10740	1	Single Entry Max exceeded

#### **VENOUS THROMBOEMBOLISM PROPHYLAXIS TIME**

Rule ID	Level	Message
10801	1	Time is not valid
10802	1	Time out of range
10803	2	Element cannot be blank
10806	2	Venous Thromboembolism Prophylaxis Time is earlier than ED/Hospital Arrival Time
10809	2	Element must be and can only be "Not Applicable" when <i>Venous</i> <i>Thromboembolism Prophylaxis Date</i> is "Not Applicable"
10810	2	Element must be "Not Known/Not Recorded" when <i>Venous Thromboembolism</i> <i>Prophylaxis Date</i> is "Not Known/Not Recorded"
10840	1	Single Entry Max exceeded

### PACKED RED BLOOD CELLS

Rule ID	Level	Message
21801	1	Invalid value
21802	2	Element cannot be blank
21803	2	Element cannot be "Not Applicable"
21804	3	Value exceeds 40,000 for CCs
21840	1	Single Entry Max exceeded

#### WHOLE BLOOD

Rule ID	Level	Message
21101	1	Invalid value
21102	2	Element cannot be blank
21103	2	Element cannot be "Not Applicable"
21104	3	Value exceeds 40,000 for CCs
21140	1	Single Entry Max exceeded

### PLASMA

Rule ID	Level	Message
21201	1	Invalid value
21202	2	Element cannot be blank
21204	3	Value exceeds 40,000 for CCs
21208	2	Element cannot be "Not Applicable"
21240	1	Single Entry Max exceeded

PLATELETS	PLATELETS				
Rule ID	Level	Message			
21201	1	Invalid value			
21202	2	Element cannot be blank			
21204	3	Value exceeds 40,000 for CCs			
21208	2	Element cannot be "Not Applicable"			
21240	1	Single Entry Max exceeded			
CRYOPRECIPITATE					
Rule ID	Level	Message			
21401	1	Invalid value			
21402	2	Element cannot be blank			
21404	3	Value exceeds 40,000 for CCs			
	0				
21408	2	Element cannot be "Not Applicable"			
-					

### LOWEST ED/HOSPITAL SYSTOLIC BLOOD PRESSURE

Rule ID	Level	Message
10901	1	Invalid value
10902	2	Element cannot be blank
10903	3	The value is above 220
10906	2	Element must be and can only be "Not Applicable" when <i>Packed Red Blood</i> <i>Cells</i> and <i>Whole Blood</i> are 0
10907	2	Element must be "Not Known/Not Recorded" when <i>Packed Red Blood Cells</i> and <i>Whole Blood</i> are "Not Known/Not Recorded"
10908	2	The value submitted falls outside the valid range of 0-380
10909	3	The value is below 30
10940	1	Single Entry Max exceeded

#### **ANGIOGRAPHY**

Rule ID	Level	Message
11701	1	Invalid value
11702	2	Element cannot be blank
11704	2	Element must be and can only be "Not Applicable" when <i>Packed Red Blood Cells</i> and <i>Whole Blood</i> are 0
11705	2	Element must be "Not Known/Not Recorded" when <i>Packed Red Blood Cells</i> and <i>Whole Blood</i> are "Not Known/Not Recorded"
11740	1	Single Entry Max exceeded

EMBOLIZATION SITE			
Rule ID	Level	Message	
11801	1	Value is not a valid menu option	
11802	2	Element cannot be blank	
11804	2	Element must be and can only be "Not Applicable" when <i>Angiography</i> is <i>Element Value</i> "1. None", "2. Angiogram only", or "4. Angiogram with stenting"	
11805	2	Element cannot be "Not Applicable" or "Not Known/Not Recorded" along with any other value	
11850	1	Multiple Entry Max exceeded	

#### **ANGIOGRAPHY DATE**

Rule ID	Level	Message	
11901	1	Date is not valid	
11902	1	Date out of range	
11903	2	Element cannot be blank	
11905	2	lement must be and can only be "Not Applicable" when <i>Angiography</i> is "Not pplicable" or <i>Element Value</i> "1. None"	
11906	2	ngiography Date is earlier than ED/Hospital Arrival Date	
11908	2	ngiography Date occurs more than 24 hours after ED Hospital Arrival Date	
11909	2	Element must be "Not Known/Not Recorded" when <i>Angiography</i> is "Not Known/Not Recorded"	
11940	1	Single Entry Max exceeded	

#### **ANGIOGRAPHY TIME**

Rule ID	Level	Message	
12001	1	Time is not valid	
12002	1	Time out of range	
12003	2	Element cannot be blank	
12004	2	ement cannot be "Not Applicable" when <i>Angiography</i> is <i>Element Value</i> "2. ngiogram only', 3. 'Angiogram with embolization', or 4. 'Angiogram with enting'"	
12005	2	lement must be and can only be "Not Applicable" when <i>Angiography</i> is "Not Applicable" or <i>Element Value</i> "1. None"	
12006	2	Angiography Time is earlier than ED/Hospital Arrival Time	
12008	2	ngiography Time occurs more than 24 hours after ED/Hospital Arrival Time	
12009	2	Element must be "Not Known/Not Recorded" when <i>Angiography Date</i> is "Not Known/Not Recorded	
12040	1	Single Entry Max exceeded	

#### SURGERY FOR HEMORRHAGE CONTROL TYPE

Rule ID	Level	Message		
12101	1	/alue is not a valid menu option		
12102	2	lement cannot be blank		
12104	2	lement must be and can only be "Not Applicable" when <i>Packed Red Blood Cells</i> nd <i>Whole Blood</i> are 0		
12105	2	Element must be "Not Known/Not Recorded" when <i>Packed Red Blood Cells</i> and <i>Whole Blood</i> are "Not Known/Not Recorded"		
12140	1	Single Entry Max exceeded		

#### SURGERY FOR HEMORRHAGE CONTROL DATE

Rule ID	Level	Message	
12201	1	Date is not valid	
12202	1	Date out of range	
12203	2	Surgery For Hemorrhage Control Date is earlier than ED/Hospital Arrival Date	
12206	2	ement must be and can only be "Not Applicable" when <i>Surgery For Hemorrhage</i> Introl Type is "Not Applicable" or <i>Element Value</i> "1. None"	
12207	2	ement cannot be blank	
12208	2	<b>urgery for Hemorrhage Control Date</b> occurs more than 24 hours after <b>D/Hospital Arrival Date</b>	
12209	2	Element must be "Not Known/Not Recorded" when <i>Surgery For Hemorrhage</i> <i>Control Type</i> is "Not Known/Not Recorded"	
12240	1	Single Entry Max exceeded	

#### SURGERY FOR HEMORRHAGE CONTROL TIME

Rule ID	Level	Message	
12301	1	Time is not valid	
12302	1	Time out of range	
12303	2	Surgery For Hemorrhage Control Time is earlier than ED/Hospital Arrival Time	
12307	2	lement cannot be blank	
12308	2	Surgery for Hemorrhage Control Time occurs more than 24 hours after ED/Hospital Arrival Time	
12309	2	Element must be and can only be "Not Applicable" when <i>Surgery For</i> <i>Hemorrhage Control Date</i> is "Not Applicable"	
12310	2	Element must be "Not Known/Not Recorded" when <i>Surgery For</i> <i>Hemorrhage Control Date</i> is "Not Known/Not Recorded"	
12340	1	Single Entry Max exceeded	

#### WITHDRAWAL OF LIFE SUPPORTING TREATMENT

Rule ID	Level	Vlessage	
13801	1	alue is not a valid menu option	
13802	2	Element cannot be blank	
13803	2	2 Element cannot be "Not Applicable"	
13840	1	Single Entry Max exceeded	

#### WITHDRAWAL OF LIFE SUPPORTING TREATMENT DATE

Rule ID	Level	Message	
13901	1	Date is not valid	
13902	1	Date out of range	
13903	2	<i>Vithdrawal of Life Supporting Treatment Date</i> is earlier than <i>ED/Hospital</i> <i>rrival Date</i>	
13906	2	Element must be and can only be "Not Applicable" when <i>Withdrawal of Life</i> <i>Supporting Treatment</i> is <i>Element Value</i> "2. No"	
13907	2	Element cannot be blank	
13908	2	Element must be "Not Known/Not Recorded" when <i>Withdrawal of Life</i> Supporting Treatment is "Not Known/Not Recorded"	
13940	1	Single Entry Max exceeded	

#### WITHDRAWAL OF LIFE SUPPORTING TREATMENT TIME

Rule ID	Level	Message	
14001	1	Time is not valid	
14002	1	Time out of range	
14003	2	<i>Withdrawal of Life Supporting Treatment Time</i> is earlier than <i>ED/Hospital</i> Arrival Time	
14007	2	Element cannot be blank	
14008	2	Element must be and can only be "Not Applicable" when <i>Withdrawal of Life</i> <i>Supporting Treatment Date</i> is "Not Applicable"	
14009	2	Element must be "Not Known/Not Recorded" when <i>Withdrawal of Life</i> Supporting Treatment Date is "Not Known/Not Recorded"	
14040	1	Single Entry Max exceeded	

#### ANTIBIOTIC THERAPY

Rule ID	Level	Message		
20701	1	/alue is not a valid menu option		
20702	2	ement cannot be blank		
20705	2	Element must be "Not Applicable" as the AIS codes provided do not meet the eporting criterion		
20706	2	Element must not be "Not Applicable" as the AIS codes provided meet the reporting criterion		
20740	1	Single Entry Max exceeded		

#### **ANTIBIOTIC THERAPY DATE**

Rule ID	Level	lessage	
20801	1	Date is not valid	
20802	2	te is out of range	
20804	2	Element must be and can only be "Not Applicable" when <i>Antibiotic Therapy</i> s "Not Applicable" or <i>Element Value</i> "2. No"	
20808	2	lement cannot be blank	
20809	2	Element must be "Not Known/Not Recorded" when <i>Antibiotic Therapy</i> is "Not Known/Not Recorded"	
20840	1	Single Entry Max exceeded	

#### **ANTIBIOTIC THERAPY TIME**

Rule ID	Level	Message Contract of the second s		
20901	1	ime is not valid		
20902	2	me is out of range		
20908	2	ement cannot be blank		
20909	2	Element must be and can only be "Not Applicable" when <i>Antibiotic Therapy Date</i> s "Not Applicable"		
20910	2	Element must be "Not Known/Not Recorded" when Antibiotic Therapy Date is "Not Known/Not Recorded"		
20940	1	Single Entry Max exceeded		

# SURGEON SPECIFIC REPORTING -OPTIONAL

### NATIONAL PROVIDER IDENTIFIER (NPI)

Rule ID	Level	Message	
9801	1	Invalid value	

#### **APPENDIX 2**

# **APPENDIX 3: TECHNICAL SPECIFICATIONS**

# **DEMOGRAPHIC INFORMATION**

# PATIENT'S HOME ZIP/POSTAL CODE

XSD Element Name: HomeZip	XSD Schema Datatype: xs:string
XSD ComplexType: Zip	Multiple Entry Configuration: No
Required in XSD: Yes	Accepts Null Value: yes, common null values

## **PATIENT'S HOME COUNTRY**

XSD Element Name: HomeCountry	XSD Schema Datatype: xs:string
XSD ComplexType: Country	Multiple Entry Configuration: No
Required in XSD: Yes	Accepts Null Value: yes, common null values

### **PATIENT'S HOME STATE**

XSD Element Name: HomeState	XSD Schema Datatype: xs:string
XSD ComplexType: State	Multiple Entry Configuration: No
Required in XSD: Yes	Accepts Null Value: yes, common null values

## **PATIENT'S HOME COUNTY**

XSD Element Name: HomeCounty	XSD Schema Datatype: xs:string
XSD ComplexType: County	Multiple Entry Configuration: No
Required in XSD: Yes	Accepts Null Value: yes, common null values

# PATIENT'S HOME CITY

XSD Element Name: HomeCity	XSD Schema Datatype: xs:string
XSD ComplexType: City	Multiple Entry Configuration: No
Required in XSD: Yes	Accepts Null Value: yes, common null values

#### **ALTERNATE HOME RESIDENCE**

XSD Element Name: HomeResidence	XSD Schema Datatype: xs:integer
XSD ComplexType: HomeResidence	Multiple Entry Configuration: Yes, max 3
Required in XSD: Yes	Accepts Null Value: yes, common null values
Constraint: Enumerated List	

#### DATE OF BIRTH

XSD Element Name: DateOfBirth	XSD Schema DataType: xs:date
XSD ComplexType: DateOfBirth	Multiple Entry Configuration: No
Required in XSD: Yes	Accepts Null Value: yes, common null values
Minimun Value: 1890-01-01	
Maxinum Value: 2030-01-01	

AGE	
XSD Element Name: Age	XSD Schema Datatype: xs:integer
XSD ComplexType: Age	Multiple Entry Configuration: No
Required in XSD: Yes	Accepts Null Value: yes, common null values
Minimum Value: 0 Maximum Value: 120	

#### **AGE UNITS**

XSD Element Name: AgeUnits	XSD Schema Datatype: xs:integer
XSD ComplexType: AgeUnits	Multiple Entry Configuration: No
Required in XSD: Yes	Accepts Null Value: yes, common null values
Constraint: Enumerated List	

#### RACE

XSD Element Name: Race	XSD Schema Datatype: xs:integer
XSD ComplexType: Race	Multiple Entry Configuration: Yes, max 6
Required in XSD: Yes	Accepts Null Value: yes, common null values
Constraint: Enumerated List	

### **ETHNICITY**

XSD Element Name: Ethnicity	XSD Schema Datatype: xs:integer
XSD ComplexType: Ethnicity	Multiple Entry Configuration: No
Required in XSD: Yes	Accepts Null Value: yes, common null values
Constraint: Enumerated List	

#### SEX

XSD Element Name: Sex	XSD Schema Datatype: xs:integer
XSD ComplexType: Sex	Multiple Entry Configuration: No
Required in XSD: Yes	Accepts Null Value: yes, common null values
Constraint: Enumerated List	

# INJURY INFORMATION

### **INJURY INCIDENT DATE**

XSD Element Name: IncidentDate	XSD Schema Datatype: xs:date
XSD ComplexType: Date19902030	Multiple Entry Configuration: No
Required in XSD: Yes	Accepts Null Value: yes, common null values
Minimum Value: 1990-01-01	
Maximum Value: 2030-01-01	

#### **INJURY INCIDENT TIME**

XSD Element Name: IncidentTime	XSD Schema Datatype: xs:time
XSD ComplexType: Time	Multiple Entry Configuration: No
Required in XSD: Yes	Accepts Null Value: yes, common null values

#### **WORK-RELATED**

XSD Element Name: WorkRelated	XSD Schema Datatype: xs:integer
XSD ComplexType: YesNo	Multiple Entry Configuration: No
Required in XSD: Yes	Accepts Null Value: yes, common null values
Constraint: Enumerated List	

## PATIENT'S OCCUPATIONAL INDUSTRY

XSD Element Name: PatientsOccupationalIndustry	XSD Schema Datatype: xs:integer
XSD ComplexType: PatientsOccupationalIndustry	Multiple Entry Configuration: No
Required in XSD: Yes	Accepts Null Value: yes, common null values
Constraint: Enumerated List	

### **PATIENT'S OCCUPATION**

XSD Element Name: PatientsOccupation	XSD Schema Datatype: xs:integer
XSD ComplexType: PatientsOccupation	Multiple Entry Configuration: No
Required in XSD: Yes	Accepts Null Value: yes, common null values
Constraint: Enumerated List	

### ICD-10 PRIMARY EXTERNAL CAUSE CODE

XSD Element Name: PrimaryECodelcd10	XSD Schema Datatype: xs:string
XSD ComplexType: ECodelcd10	Multiple Entry Configuration: No
Required in XSD: Yes	Accepts Null Value: yes, common null values
Minimum Length: 3	
Maximum Length: 8	

#### ICD-10 PLACE OF OCCURRENCE EXTERNAL CAUSE CODE

XSD Element Name: PlaceOfInjuryCode	XSD Schema Datatype: xs:string
XSD ComplexType: PlaceOfInjuryCode	Multiple Entry Configuration: No
Required in XSD: Yes	Accepts Null Value: yes, common null values
Minimum Length: 4	
Maximum Length: 7	

## ICD-10 ADDITIONAL EXTERNAL CAUSE CODE

XSD Element Name: AdditionalECodelcd10	XSD Schema Datatype: xs:string
XSD ComplexType: ECodelcd10	Multiple Entry Configuration: Yes. max 2
Required in XSD: Yes	Accepts Null Value: yes, common null values
Minimum Length: 3	
Maximum Length: 8	

# **INCIDENT LOCATION ZIP/POSTAL CODE**

XSD Element Name: InjuryZip	XSD Schema Datatype: xs:string
XSD ComplexType: Zip	Multiple Entry Configuration: No
Required in XSD: Yes	Accepts Null Value: yes, common null values

#### **INCIDENT COUNTRY**

XSD Element Name: IncidentCountry	XSD Schema Datatype: xs:string
XSD ComplexType: Country	Multiple Entry Configuration: No
Required in XSD: Yes	Accepts Null Value: yes, common null values

#### **INCIDENT STATE**

XSD Element Name: IncidentState	XSD Schema Datatype: xs:string
XSD ComplexType: State	Multiple Entry Configuration: No
Required in XSD: Yes	Accepts Null Value: yes, common null values

#### **INCIDENT COUNTY**

XSD Element Name: IncidentCounty	XSD Schema Datatype: xs:string
XSD ComplexType: County	Multiple Entry Configuration: No
Required in XSD: Yes	Accepts Null Value: yes, common null values

#### **INCIDENT CITY**

XSD Element Name: IncidentCity	XSD Schema Datatype: xs:string
XSD ComplexType: City	Multiple Entry Configuration: No
Required in XSD: Yes	Accepts Null Value: yes, common null values

#### **PROTECTIVE DEVICES**

XSD Element Name: ProtectiveDevice	XSD Schema Datatype: xs:integer
XSD ComplexType: ProtectiveDevice	Multiple Entry Configuration: Yes, max 10
Required in XSD: Yes	Accepts Null Value: yes, common null values
Constraint: Enumerated List	

#### **CHILD SPECIFIC RESTRAINT**

XSD Element Name: ChildSpecificRestraint	XSD Schema Datatype: xs:integer
XSD ComplexType: ChildSpecificRestraint	Multiple Entry Configuration: No
Required in XSD: Yes	Accepts Null Value: yes, common null values
Constraint: Enumerated List	

#### **AIRBAG DEPLOYMENT**

XSD Element Name: AirbagDeployment	XSD Schema Datatype: xs:integer
XSD ComplexType: AirbagDeployment	Multiple Entry Configuration: Yes, max 4
Required in XSD: Yes	Accepts Null Value: yes, common null values
Constraint: Enumerated List	

# **PRE-HOSPITAL INFORMATION**

#### **TRANSPORT MODE**

XSD Element Name: TransportMode	XSD Schema Datatype: xs:integer
XSD ComplexType: TransportMode	Multiple Entry Configuration: No
Required in XSD: Yes	Accepts Null Value: yes, common null values
Constraint: Enumerated List	

#### **OTHER TRANSPORT MODE**

XSD Element Name: OtherTransportMode	XSD Schema Datatype: xs:integer
XSD ComplexType: TransportMode	Multiple Entry Configuration: Yes, max 5
Required in XSD: Yes	Accepts Null Value: yes, common null values
Constraint: Enumerated List	

## EMS PATIENT CARE REPORT UNIVERSALLY UNIQUE IDENTIFIER (UUID)

XSD Element Name: PatientUUID	XSD Schema Datatype: xs:string
XSD ComplexType: PatientUUID	Multiple Entry Configuration: No
Required in XSD: Yes	Accepts Null Value: yes, common null values

#### **INTER-FACILITY TRANSFER**

XSD Element Name: InterFacilityTransfer	XSD Schema Datatype: xs:integer
XSD ComplexType: YesNo	Multiple Entry Configuration: No
Required in XSD: Yes	Accepts Null Value: yes, common null values
Constraint: Enumerated List	

#### **PRE-HOSPITAL CARDIAC ARREST**

XSD Element Name: PrehospitalCardiacArrest	XSD Schema Datatype: xs:integer
XSD ComplexType: YesNo	Multiple Entry Configuration: No
Required in XSD: Yes	Accepts Null Value: yes, common null values
Constraint: Enumerated List	

# **EMERGENCY DEPARTMENT INFORMATION**

### **HIGHEST ACTIVATION**

XSD Element Name: HighestActivation	XSD Schema Datatype: xs:integer
XSD ComplexType: YesNo	Multiple Entry Configuration: No
Required in XSD: Yes	Accepts Null Value: yes, common null values
Constraint: Enumerated List	

#### TRAUMA SURGEON ARRIVAL DATE

XSD Element Name: TraumaSurgeonArrivalDate	XSD Schema Datatype: xs:date
XSD ComplexType: Date19902030	Multiple Entry Configuration: No
Required in XSD: Yes	Accepts Null Value: yes, common null values
Minimum Value: 1990-01-01	
Maximum Value: 2030-01-01	

### TRAUMA SURGEON ARRIVAL TIME

XSD Element Name:	XSD Schema Datatype: xs:time
TraumaSurgeonArrivalTime	
XSD ComplexType: Time	Multiple Entry Configuration: No
Required in XSD: Yes	Accepts Null Value: yes, common null values

### **ED/HOSPITAL ARRIVAL DATE**

XSD Element Name: HospitalArrivalDate	XSD Schema Datatype: xs:date
XSD ComplexType: Date19902030	Multiple Entry Configuration: No
Required in XSD: Yes	Accepts Null Value: yes, common null values
Minimum Value: 1990-01-01	
Maximum Value: 2030-01-01	

## ED/HOSPITAL ARRIVAL TIME

XSD Element Name: HospitalArrivalTime	XSD Schema Datatype: xs:time
XSD ComplexType: Time	Multiple Entry Configuration: No
Required in XSD: Yes	Accepts Null Value: yes, common null values

# **INITIAL ED/HOSPITAL SYSTOLIC BLOOD PRESSURE**

XSD Element Name: Sbp	XSD Schema Datatype: xs:integer
XSD ComplexType: Sbp	Multiple Entry Configuration: No
Required in XSD: Yes	Accepts Null Value: yes, common null values
Minimum Value: 0	
Maximum Value: 380	

# INITIAL ED/HOSPITAL PULSE RATE

XSD Element Name: PulseRate	XSD Schema Datatype: xs:integer
XSD ComplexType: PulseRate	Multiple Entry Configuration: No
Required in XSD: Yes	Accepts Null Value: yes, common null values
Minimum Value: 0	
Maximum Value: 300	

# INITIAL ED/HOSPITAL TEMPERATURE

XSD Element Name: Temperature	XSD Schema Datatype: xs:decimal
XSD ComplexType: Temperature	Multiple Entry Configuration: No
Required in XSD: Yes	Accepts Null Value: yes, common null values
Minimum Value: 10.0	
Maximum Value: 45.0	

# INITIAL ED/HOSPITAL RESPIRATORY RATE

XSD Element Name: RespiratoryRate	XSD Schema Datatype: xs:integer
XSD ComplexType: RespiratoryRate	Multiple Entry Configuration: No
Required in XSD: Yes	Accepts Null Value: yes, common null values
Minimum Value: 0	
Maximum Value: 100	

# INITIAL ED/HOSPITAL RESPIRATORY ASSISTANCE

XSD Element Name: RespiratoryAssistance	XSD Schema Datatype: xs:integer
XSD ComplexType: RespiratoryAssistance	Multiple Entry Configuration: No
Required in XSD: Yes	Accepts Null Value: yes, common null values
Constraint: Enumerated List	

# INITIAL ED/HOSPITAL OXYGEN SATURATION

XSD Element Name: PulseOximetry	XSD Schema Datatype: xs:integer
XSD ComplexType: PulseOximetry	Multiple Entry Configuration: No
Required in XSD: Yes	Accepts Null Value: yes, common null values
Minimum Value: 0 Maximum Value: 100	

## INITIAL ED/HOSPITAL SUPPLEMENTAL OXYGEN

XSD Element Name: SupplementalOxygen	XSD Schema Datatype: xs:integer
XSD ComplexType: SupplementalOxygen	Multiple Entry Configuration: No
Required in XSD: Yes	Accepts Null Value: yes, common null values
Constraint: Enumerated List	

# **INITIAL ED/HOSPITAL GCS - EYE**

XSD Element Name: GcsEye	XSD Schema Datatype: xs:integer
XSD ComplexType: GcsEye	Multiple Entry Configuration: No
Required in XSD: Yes	Accepts Null Value: yes, common null values
Constraint: Enumerated List	

# INITIAL ED/HOSPITAL GCS - VERBAL

XSD Element Name: GcsVerbal	XSD Schema Datatype: xs:integer
XSD ComplexType: GcsVerbal	Multiple Entry Configuration: No
Required in XSD: Yes	Accepts Null Value: yes, common null values
Constraint: Enumerated List	

## **INITIAL ED/HOSPITAL GCS - MOTOR**

XSD Element Name: GcsMotor	XSD Schema Datatype: xs:integer
XSD ComplexType: GcsMotor	Multiple Entry Configuration: No
Required in XSD: Yes	Accepts Null Value: yes, common null values
Constraint: Enumerated List	

# INITIAL ED/HOSPITAL GCS - TOTAL

XSD Element Name: TotalGcs	XSD Schema Datatype: xs:integer
XSD ComplexType: TotalGcs	Multiple Entry Configuration: No
Required in XSD: Yes	Accepts Null Value: yes, common null values
Minimum Value: 3	
Maximum Value: 15	

## **INITIAL ED/HOSPITAL GCS ASSESSMENT QUALIFIERS**

XSD Element Name: GcsQualifier	XSD Schema Datatype: xs:integer
XSD ComplexType: GcsQualifier	Multiple Entry Configuration: Yes, max 3
Required in XSD: Yes	Accepts Null Value: yes, common null values
Constraint: Enumerated List	

# INITIAL ED/HOSPITAL GCS - 40 EYE

XSD Element Name: Gcs40Eye	XSD Schema Datatype: xs:integer
XSD ComplexType: Gcs40Eye	Multiple Entry Configuration: No
Required in XSD: Yes	Accepts Null Value: yes, common null values
Constraint: Enumerated List	

# INITIAL ED/HOSPITAL GCS - 40 VERBAL

XSD Element Name: Gcs40Verbal	XSD Schema Datatype: xs:integer
XSD ComplexType: Gcs40Verbal	Multiple Entry Configuration: No
Required in XSD: Yes	Accepts Null Value: yes, common null values
Constraint: Enumerated List	

# INITIAL ED/HOSPITAL GCS - 40 MOTOR

XSD Element Name: Gcs40Motor	XSD Schema Datatype: xs:integer
XSD ComplexType: Gcs40Motor	Multiple Entry Configuration: No
Required in XSD: Yes	Accepts Null Value: yes, common null values
Constraint: Enumerated List	

# INITIAL ED/HOSPITAL HEIGHT

XSD Element Name: Height	XSD Schema Datatype: xs:decimal
XSD ComplexType: Height	Multiple Entry Configuration: No
Required in XSD: Yes	Accepts Null Value: yes, common null values
Minimum Value: 30.0	
Maximum Value: 275.0	

# INITAL ED/HOSPITAL WEIGHT

XSD Element Name: Weight	XSD Schema Datatype: xs:decimal
XSD ComplexType: Weight	Multiple Entry Configuration: No
Required in XSD: Yes	Accepts Null Value: yes, common null values
Minimum Value: 1	
Maximum Value: 650	

#### **DRUG SCREEN**

XSD Element Name: DrugScreen	XSD Schema Datatype: xs:integer
XSD ComplexType: DrugScreen	Multiple Entry Configuration: Yes, max 15
Required in XSD: Yes	Accepts Null Value: yes, common null values
Constraint: Enumerated List	

#### **ALCOHOL SCREEN**

XSD Element Name: AlcoholScreen	XSD Schema Datatype: xs:integer
XSD ComplexType: YesNo	Multiple Entry Configuration: No
Required in XSD: Yes	Accepts Null Value: yes, common null values
Constraint: Enumerated List	

#### **ALCOHOL SCREEN RESULTS**

XSD Element Name: AlcoholScreenResult	XSD Schema Datatype: xs:decimal
XSD ComplexType: AlcoholScreenResult	Multiple Entry Configuration: No
Required in XSD: Yes	Accepts Null Value: yes, common null values
Minimum Value: 0.00	
Maximum Value: 1.5	

#### **ED DISCHARGE DISPOSITION**

XSD Element Name: EdDischargeDisposition	XSD Schema Datatype: xs:integer
XSD ComplexType: EdDischargeDisposition	Multiple Entry Configuration: No
Required in XSD: Yes	Accepts Null Value: yes, common null values
Constraint: Enumerated List	

#### **ED DISCHARGE DATE**

XSD Element Name: EdDischargeDate	XSD Schema Datatype: xs:date
XSD ComplexType: Date19902030	Multiple Entry Configuration: No
Required in XSD: Yes	Accepts Null Value: yes, common null values
Minimum Value: 1990-01-01	
Maximum Value: 2030-01-01	

#### **ED DISCHARGE TIME**

XSD Element Name: EdDischargeTime	XSD Schema Datatype: xs:time
XSD ComplexType: Time	Multiple Entry Configuration: No
Required in XSD: Yes	Accepts Null Value: yes, common null values

# **HOSPITAL PROCEDURE INFORMATION**

#### **ICD-10 HOSPITAL PROCEDURES**

XSD Element Name: HospitalProcedureIcd10	XSD Schema Datatype: xs:string
XSD ComplexType: HospitalProcedureIcd10	Multiple Entry Configuration: Yes, max 200
Required in XSD: Yes	Accepts Null Value: yes, common null values
Minimum Length: 5	
Maximum Length: 10	

#### **HOSPITAL PROCEDURE START DATE**

XSD Element Name: HospitalProcedureStartDate	XSD Schema Datatype: xs:date
XSD ComplexType: Date19902030	Multiple Entry Configuration: Yes, max 200
Required in XSD: Yes	Accepts Null Value: yes, common null values
Minimum Value: 1990-01-01	
Maximum Value: 2030-01-01	

### HOSPITAL PROCEDURE START TIME

XSD Element Name:HospitalProcedureStartTime	XSD Schema Datatype: xs:time
XSD ComplexType: Time	Multiple Entry Configuration: Yes, max 200
Required in XSD: Yes	Accepts Null Value: yes, common null values

# **PRE-EXISTING CONDITIONS**

### ADVANCED DIRECTIVE LIMITING CARE

<b>XSD Element Name:</b> Preexisting Condition Value = 13	XSD Schema Datatype: xs:integer
XSD ComplexType: YesNo	Multiple Entry Configuration: No
Required in XSD: Yes	Accepts Null Value: yes, common null values
Constraint: Enumerated List	

#### **ALCOHOL USE DISORDER**

<b>XSD Element Name:</b> Preexisting Condition Value = 2	XSD Schema Datatype: xs:integer
XSD ComplexType: YesNo	Multiple Entry Configuration: No
Required in XSD: Yes	Accepts Null Value: yes, common null values
Constraint: Enumerated List	

#### **ANGINA PECTORIS**

<b>XSD Element Name:</b> Preexisting Condition Value = 32	XSD Schema Datatype: xs:integer
XSD ComplexType: YesNo	Multiple Entry Configuration: No
Required in XSD: Yes	Accepts Null Value: yes, common null values
Constraint: Enumerated List	

### **ANTICOAGULANT THERAPY**

<b>XSD Element Name:</b> Preexisting Condition Value = 31	XSD Schema Datatype: xs:integer
XSD ComplexType: YesNo	Multiple Entry Configuration: No
Required in XSD: Yes	Accepts Null Value: yes, common null values
Constraint: Enumerated List	

## ATTENTION DEFICIT DISORDER/ATTENTION DEFICIT HYPERACTIVITY DISORDER (ADD/ADHD)

<b>XSD Element Name:</b> Preexisting Condition Value = 30	XSD Schema Datatype: xs:integer
XSD ComplexType: YesNo	Multiple Entry Configuration: No
Required in XSD: Yes	Accepts Null Value: yes, common null values
Constraint: Enumerated List	

#### **BLEEDING DISORDER**

<b>XSD Element Name:</b> Preexisting Condition Value = 4	XSD Schema Datatype: xs:integer
XSD ComplexType: YesNo	Multiple Entry Configuration: No
Required in XSD: Yes	Accepts Null Value: yes, common null values
Constraint: Enumerated List	

# **CEREBRAL VASCULAR ACCIDENT (CVA)**

<b>XSD Element Name:</b> Preexisting Condition Value = 10	XSD Schema Datatype: xs:integer
XSD ComplexType: YesNo	Multiple Entry Configuration: No
Required in XSD: Yes	Accepts Null Value: yes, common null values
Constraint: Enumerated List	

## CHRONIC OBSTRUCTIVE PULMONARY DISEASE (COPD)

<b>XSD Element Name:</b> Preexisting Condition Value = 23	XSD Schema Datatype: xs:integer
XSD ComplexType: YesNo	Multiple Entry Configuration: No
Required in XSD: Yes	Accepts Null Value: yes, common null values
Constraint: Enumerated List	

#### **CHRONIC RENAL FAILURE**

<b>XSD Element Name:</b> Preexisting Condition Value = 9	XSD Schema Datatype: xs:integer
XSD ComplexType: YesNo	Multiple Entry Configuration: No
Required in XSD: Yes	Accepts Null Value: yes, common null values
Constraint: Enumerated List	

#### **CIRRHOSIS**

<b>XSD Element Name:</b> Preexisting Condition Value = 25	XSD Schema Datatype: xs:integer
XSD ComplexType: YesNo	Multiple Entry Configuration: No
Required in XSD: Yes	Accepts Null Value: yes, common null values
Constraint: Enumerated List	

#### **CONGENITAL ANOMALIES**

<b>XSD Element Name:</b> Preexisting Condition Value = 6	XSD Schema Datatype: xs:integer
XSD ComplexType: YesNo	Multiple Entry Configuration: No
Required in XSD: Yes	Accepts Null Value: yes, common null values
Constraint: Enumerated List	

# **CONGESTIVE HEART FAILURE (CHF)**

<b>XSD Element Name:</b> Preexisting Condition Value = 7	XSD Schema Datatype: xs:integer
XSD ComplexType: YesNo	Multiple Entry Configuration: No
Required in XSD: Yes	Accepts Null Value: yes, common null values
Constraint: Enumerated List	

#### **CURRENT SMOKER**

<b>XSD Element Name:</b> Preexisting Condition Value = 8	XSD Schema Datatype: xs:integer
XSD ComplexType: YesNo	Multiple Entry Configuration: No
Required in XSD: Yes	Accepts Null Value: yes, common null values
Constraint: Enumerated List	

#### **CURRENTLY RECEIVING CHEMOTHERAPY FOR CANCER**

<b>XSD Element Name:</b> Preexisting Condition Value = 5	XSD Schema Datatype: xs:integer
XSD ComplexType: YesNo	Multiple Entry Configuration: No
Required in XSD: Yes	Accepts Null Value: yes, common null values
Constraint: Enumerated List	

#### DEMENTIA

<b>XSD Element Name:</b> Preexisting Condition Value = 26	XSD Schema Datatype: xs:integer
XSD ComplexType: YesNo	Multiple Entry Configuration: No
Required in XSD: Yes	Accepts Null Value: yes, common null values
Constraint: Enumerated List	

### **DIABETES MELLITUS**

<b>XSD Element Name:</b> Preexisting Condition Value = 11	XSD Schema Datatype: xs:integer
XSD ComplexType: YesNo	Multiple Entry Configuration: No
Required in XSD: Yes	Accepts Null Value: yes, common null values
Constraint: Enumerated List	

#### **DISSEMINATED CANCER**

<b>XSD Element Name:</b> Preexisting Condition Value = 12	XSD Schema Datatype: xs:integer
XSD ComplexType: YesNo	Multiple Entry Configuration: No
Required in XSD: Yes	Accepts Null Value: yes, common null values
Constraint: Enumerated List	

#### FUNCTIONALLY DEPENDENT HEALTH STATUS

<b>XSD Element Name:</b> Preexisting Condition Value = 15	XSD Schema Datatype: xs:integer
XSD ComplexType: YesNo	Multiple Entry Configuration: No
Required in XSD: Yes	Accepts Null Value: yes, common null values
Constraint: Enumerated List	

HYPERTENSION	
<b>XSD Element Name:</b> Preexisting Condition Value = 19	XSD Schema Datatype: xs:integer
XSD ComplexType: YesNo	Multiple Entry Configuration: No
Required in XSD: Yes	Accepts Null Value: yes, common null values
Constraint: Enumerated List	

# **MENTAL/PERSONALITY DISORDERS**

<b>XSD Element Name:</b> Preexisting Condition Value = 33	XSD Schema Datatype: xs:integer
XSD ComplexType: YesNo	Multiple Entry Configuration: No
Required in XSD: Yes	Accepts Null Value: yes, common null values
Constraint: Enumerated List	

# **MYOCARDIAL INFARCTION (MI)**

<b>XSD Element Name:</b> Preexisting Condition Value = 34	XSD Schema Datatype: xs:integer
XSD ComplexType: YesNo	Multiple Entry Configuration: No
Required in XSD: Yes	Accepts Null Value: yes, common null values
Constraint: Enumerated List	

# PERIPHERAL ARTERIAL DISEASE (PAD)

<b>XSD Element Name:</b> Preexisting Condition Value = 35	XSD Schema Datatype: xs:integer
XSD ComplexType: YesNo	Multiple Entry Configuration: No
Required in XSD: Yes	Accepts Null Value: yes, common null values
Constraint: Enumerated List	

#### PREGNANCY

<b>XSD Element Name:</b> Preexisting Condition Value = 38	XSD Schema Datatype: xs:integer
XSD ComplexType: YesNo	Multiple Entry Configuration: No
Required in XSD: Yes	Accepts Null Value: yes, common null values
Constraint: Enumerated List	

#### PREMATURITY

<b>XSD Element Name:</b> Preexisting Condition Value = 37	XSD Schema Datatype: xs:integer
XSD ComplexType: YesNo	Multiple Entry Configuration: No
Required in XSD: Yes	Accepts Null Value: yes, common null values
Constraint: Enumerated List	

STEROID USE	
<b>XSD Element Name:</b> Preexisting Condition Value = 24	XSD Schema Datatype: xs:integer
XSD ComplexType: YesNo	Multiple Entry Configuration: No
Required in XSD: Yes	Accepts Null Value: yes, common null values
Constraint: Enumerated List	

#### SUBSTANCE USE DISORDER

<b>XSD Element Name:</b> Preexisting Condition Value = 36	XSD Schema Datatype: xs:integer
XSD ComplexType: YesNo	Multiple Entry Configuration: No
Required in XSD: Yes	Accepts Null Value: yes, common null values
Constraint: Enumerated List	

# **DIAGNOSTIC INFORMATION**

# **ICD-10 INJURY DIAGNOSES**

XSD Element Name: DiagnosisIcd10	XSD Schema Datatype: xs:string
XSD ComplexType: DiagnosisIcd10	Multiple Entry Configuration: Yes, max 50
Required in XSD: Yes	Accepts Null Value: yes, common null values
Minimum Length: 3	
Maximum Length: 8	

## AIS CODE

XSD Element Name: AisCode	XSD Schema Datatype: xs:string
XSD ComplexType: AisCode	Multiple Entry Configuration: Yes, max 50
Required in XSD: Yes	Accepts Null Value: yes, common null values

## **AIS VERSION**

XSD Element Name: AisVersion	XSD Schema Datatype: xs:integer
XSD ComplexType: AisVersion	Multiple Entry Configuration: No
Required in XSD: Yes	Accepts Null Value: yes, common null values
Constraint: Enumerated List	

# **HOSPITAL EVENTS**

# ACUTE KIDNEY INJURY (AKI)

XSD Element Name: HospitalEvent Value = 4	XSD Schema Datatype: xs:integer
XSD ComplexType: YesNo	Multiple Entry Configuration: No
Required in XSD: Yes	Accepts Null Value: yes, common null values
Constraint: Enumerated List	

# **ACUTE RESPIRATORY DISTRESS SYNDROME (ARDS)**

XSD Element Name: HospitalEvent Value = 5	XSD Schema Datatype: xs:integer
XSD ComplexType: YesNo	Multiple Entry Configuration: No
Required in XSD: Yes	Accepts Null Value: yes, common null values
Constraint: Enumerated List	

# ALCOHOL WITHDRAWAL SYNDROME

XSD Element Name: HospitalEvent Value = 36	XSD Schema Datatype: xs:integer
XSD ComplexType: YesNo	Multiple Entry Configuration: No
Required in XSD: Yes	Accepts Null Value: yes, common null values
Constraint: Enumerated List	

## **CARDIAC ARREST WITH CPR**

XSD Element Name: HospitalEvent Value = 8	XSD Schema Datatype: xs:integer
XSD ComplexType: YesNo	Multiple Entry Configuration: No
Required in XSD: Yes	Accepts Null Value: yes, common null values
Constraint: Enumerated List	

# CATHETER-ASSOCIATED URINARY TRACT INFECTION (CAUTI)

XSD Element Name: HospitalEvent Value = 33	XSD Schema Datatype: xs:integer
XSD ComplexType: YesNo	Multiple Entry Configuration: No
Required in XSD: Yes	Accepts Null Value: yes, common null values
Constraint: Enumerated List	

# **CENTRAL LINE-ASSOCIATED BLOODSTREAM INFECTION (CLABSI)**

XSD Element Name: HospitalEvent Value = 34	XSD Schema Datatype: xs:integer
XSD ComplexType: YesNo	Multiple Entry Configuration: No
Required in XSD: Yes	Accepts Null Value: yes, common null values
Constraint: Enumerated List	

## **DEEP SURGICAL SITE INFECTION**

XSD Element Name: HospitalEvent Value = 12	XSD Schema Datatype: xs:integer
XSD ComplexType: YesNo	Multiple Entry Configuration: No
Required in XSD: Yes	Accepts Null Value: yes, common null values
Constraint: Enumerated List	

# **DEEP VEIN THROMBOSIS (DVT)**

XSD Element Name: HospitalEvent Value = 14	XSD Schema Datatype: xs:integer
XSD ComplexType: YesNo	Multiple Entry Configuration: No
Required in XSD: Yes	Accepts Null Value: yes, common null values
Constraint: Enumerated List	

#### DELIRIUM

XSD Element Name: HospitalEvent Value = 39	XSD Schema Datatype: xs:integer
XSD ComplexType: YesNo	Multiple Entry Configuration: No
Required in XSD: Yes	Accepts Null Value: yes, common null values
Constraint: Enumerated List	

# **EXTREMITY COMPARTMENT SYNDROME**

XSD Element Name: HospitalEvent Value = 15	XSD Schema Datatype: xs:integer
XSD ComplexType: YesNo	Multiple Entry Configuration: No
Required in XSD: Yes	Accepts Null Value: yes, common null values
Constraint: Enumerated List	

# **MYOCARDIAL INFARCTION (MI)**

XSD Element Name: HospitalEvent Value = 18	XSD Schema Datatype: xs:integer
XSD ComplexType: YesNo	Multiple Entry Configuration: No
Required in XSD: Yes	Accepts Null Value: yes, common null values
Constraint: Enumerated List	

# **ORGAN/SPACE SURGICAL SITE INFECTION**

XSD Element Name: HospitalEvent Value = 19	XSD Schema Datatype: xs:integer
XSD ComplexType: YesNo	Multiple Entry Configuration: No
Required in XSD: Yes	Accepts Null Value: yes, common null values
Constraint: Enumerated List	

# **OSTEOMYELITIS**

XSD Element Name: HospitalEvent Value = 29	XSD Schema Datatype: xs:integer
XSD ComplexType: YesNo	Multiple Entry Configuration: No
Required in XSD: Yes	Accepts Null Value: yes, common null values
Constraint: Enumerated List	

# PULMONARY EMBOLISM (PE)

<b>XSD Element Name:</b> HospitalEvent Value = 21	XSD Schema Datatype: xs:integer
XSD ComplexType: YesNo	Multiple Entry Configuration: No
Required in XSD: Yes	Accepts Null Value: yes, common null values
Constraint: Enumerated List	

# **PRESSURE ULCER**

XSD Element Name: HospitalEvent Value = 37	XSD Schema Datatype: xs:integer
XSD ComplexType: YesNo	Multiple Entry Configuration: No
Required in XSD: Yes	Accepts Null Value: yes, common null values
Constraint: Enumerated List	

#### **SEVERE SEPSIS**

XSD Element Name: HospitalEvent Value = 32	XSD Schema Datatype: xs:integer
XSD ComplexType: YesNo	Multiple Entry Configuration: No
Required in XSD: Yes	Accepts Null Value: yes, common null values
Constraint: Enumerated List	

# STROKE/CVA

XSD Element Name: HospitalEvent Value = 22	XSD Schema Datatype: xs:integer
XSD ComplexType: YesNo	Multiple Entry Configuration: No
Required in XSD: Yes	Accepts Null Value: yes, common null values
Constraint: Enumerated List	

# SUPERFICIAL INCISIONAL SURGICAL SITE INFECTION

XSD Element Name: HospitalEvent Value = 38	XSD Schema Datatype: xs:integer
XSD ComplexType: YesNo	Multiple Entry Configuration: No
Required in XSD: Yes	Accepts Null Value: yes, common null values
Constraint: Enumerated List	

## UNPLANNED ADMISSION TO ICU

XSD Element Name: HospitalEvent Value = 31	XSD Schema Datatype: xs:integer
XSD ComplexType: YesNo	Multiple Entry Configuration: No
Required in XSD: Yes	Accepts Null Value: yes, common null values
Constraint: Enumerated List	

# **UNPLANNED INTUBATION**

XSD Element Name: HospitalEvent Value = 25	XSD Schema Datatype: xs:integer
XSD ComplexType: YesNo	Multiple Entry Configuration: No
Required in XSD: Yes	Accepts Null Value: yes, common null values
Constraint: Enumerated List	

# UNPLANNED VISIT TO THE OPERATING ROOM

XSD Element Name: HospitalEvent Value = 40	XSD Schema Datatype: xs:integer
XSD ComplexType: YesNo	Multiple Entry Configuration: No
Required in XSD: Yes	Accepts Null Value: yes, common null values
Constraint: Enumerated List	

# **VENTILATOR-ASSOCIATED PNEUMONIA (VAP)**

XSD Element Name: HospitalEvent Value = 35	XSD Schema Datatype: xs:integer
XSD ComplexType: YesNo	Multiple Entry Configuration: No
Required in XSD: Yes	Accepts Null Value: yes, common null values
Constraint: Enumerated List	

# **OUTCOME INFORMATION**

# TOTAL ICU LENGTH OF STAY

XSD Element Name: TotallcuLos	XSD Schema Datatype: xs:integer
XSD ComplexType: TotallcuLos	Multiple Entry Configuration: No
Required in XSD: Yes	Accepts Null Value: yes, common null values
Minimum Value: 1	
Maximum Value: 575	

#### **TOTAL VENTILATOR DAYS**

XSD Element Name: TotalVentDays	XSD Schema Datatype: xs:integer
XSD ComplexType: TotalVentDays	Multiple Entry Configuration: No
Required in XSD: Yes	Accepts Null Value: yes, common null values
Minimum Value: 1	
Maximum Value: 575	

# **HOSPITAL DISCHARGE DISPOSITION**

XSD Element Name: HospitalDischargeDisposition	XSD Schema Datatype: xs:integer
XSD ComplexType: HospitalDischargeDisposition	Multiple Entry Configuration: No
Required in XSD: Yes	Accepts Null Value: yes, common null values
Constraint: Enumerated List	

## **HOSPITAL DISCHARGE DATE**

XSD Element Name: HospitalDischargeDate	XSD Schema Datatype: xs:date
XSD ComplexType: Date19902030	Multiple Entry Configuration: No
Required in XSD: Yes	Accepts Null Value: yes, common null values
Minimum Value: 1990-01-01	
Maximum Value: 2030-01-01	

#### **HOSPITAL DISCHARGE TIME**

XSD Element Name: HospitalDischargeTime	XSD Schema Datatype: xs:time
XSD ComplexType: Time	Multiple Entry Configuration: No
Required in XSD: Yes	Accepts Null Value: yes, common null values

# **FINANCIAL INFORMATION**

PRIMARY METHOD OF PAYMENT	
XSD Element Name: PrimaryMethodPayment	XSD Schema Datatype: xs:integer
XSD ComplexType: PrimaryMethodPayment	Multiple Entry Configuration: No
Required in XSD: Yes	Accepts Null Value: yes, common null values
Constraint: Enumerated List	

#### **APPENDIX 3**

# **TQIP MEASURE FOR PROCESS OF CARE**

# **HIGHEST GCS TOTAL**

XSD Element Name: TbiHighestTotalGcs	XSD Schema Datatype: xs:integer
XSD ComplexType: TotalGcs	Multiple Entry Configuration: No
Required in XSD: Yes	Accepts Null Value: yes, common null values
Minimum Value: 3	
Maximum Value: 15	

#### **HIGHEST GCS MOTOR**

XSD Element Name: TbiGcsMotor	XSD Schema Datatype: xs:integer
XSD ComplexType: GcsMotor	Multiple Entry Configuration: No
Required in XSD: Yes	Accepts Null Value: yes, common null values
Constraint: Enumerated List	

# GCS ASSESSMENT QUALIFIER COMPONENT OF HIGHEST GCS TOTAL

XSD Element Name: TbiGcsQualifier	XSD Schema Datatype: xs:integer
XSD ComplexType: GcsQualifier	Multiple Entry Configuration: Yes, max 3
Required in XSD: Yes	Accepts Null Value: yes, common null values
Constraint: Enumerated List	

# **HIGHEST GCS 40 - MOTOR**

XSD Element Name: TbiGcs40Motor	XSD Schema Datatype: xs:integer
XSD ComplexType: GcsMotor	Multiple Entry Configuration: No
Required in XSD: Yes	Accepts Null Value: yes, common null values
Constraint: Enumerated List	

# INITIAL ED/HOSPITAL PUPILLARY RESPONSE

XSD Element Name: TbiPupillaryResponse	XSD Schema Datatype: xs:integer
XSD ComplexType: TbiPupillaryResponse	Multiple Entry Configuration: No
Required in XSD: Yes	Accepts Null Value: yes, common null values
Constraint: Enumerated List	

## **MIDLINE SHIFT**

XSD Element Name: TbiMidlineShift	XSD Schema Datatype: xs:integer
XSD ComplexType: TbiMidlineShift	Multiple Entry Configuration: No
Required in XSD: Yes	Accepts Null Value: yes, common null values
Constraint: Enumerated List	

#### **CEREBRAL MONITOR**

XSD Element Name: TbiCerebralMonitor	XSD Schema Datatype: xs:integer
XSD ComplexType: TbiCerebralMonitor	Multiple Entry Configuration: Yes, max 4
Required in XSD: Yes	Accepts Null Value: yes, common null values
Constraint: Enumerated List	

## **CEREBRAL MONITOR DATE**

XSD Element Name: TbiCerebralMonitorDate	XSD Schema Datatype: xs:date
XSD ComplexType: Date20102030	Multiple Entry Configuration: No
Required in XSD: Yes	Accepts Null Value: yes, common null values
Minimum Value: 2010-01-01	
Maximum Value: 2030-01-01	

## **CEREBRAL MONITOR TIME**

XSD Element Name: TbiCerebralMonitorTime	XSD Schema Datatype: xs:time
XSD ComplexType: Time	Multiple Entry Configuration: No
Required in XSD: Yes	Accepts Null Value: yes, common null values

## VENOUS THROMBOEMBOLISM PROPHYLAXIS TYPE

XSD Element Name: VteProphylaxisType	XSD Schema Datatype: xs:integer
XSD ComplexType: VteProphylaxisType	Multiple Entry Configuration: No
Required in XSD: Yes	Accepts Null Value: yes, common null values
Constraint: Enumerated List	

# VENOUS THROMBOEMBOLISM PROPHYLAXIS DATE

XSD Element Name: VteProphylaxisDate	XSD Schema Datatype: xs:date
XSD ComplexType: Date20102030	Multiple Entry Configuration: No
Required in XSD: Yes	Accepts Null Value: yes, common null values
Minimum Value: 2010-01-01	
Maximum Value: 2030-01-01	

#### **VENOUS THROMBOEMBOLISM PROPHYLAXIS TIME**

XSD Element Name: VteProphylaxisTime	XSD Schema Datatype: xs:time
XSD ComplexType: Time	Multiple Entry Configuration: No
Required in XSD: Yes	Accepts Null Value: yes, common null values

## PACKED RED BLOOD CELLS

XSD Element Name: PackedRedBloodCells	XSD Schema Datatype: xs:integer
XSD ComplexType: Fluids4Hours	Multiple Entry Configuration: No
Required in XSD: Yes	Accepts Null Value: yes, common null values
Minimum Value: 0	
Maximum Value: 40000	

#### **WHOLE BLOOD**

XSD Element Name: WholeBlood	XSD Schema Datatype: xs:integer
XSD ComplexType: Fluids4Hours	Multiple Entry Configuration: No
Required in XSD: Yes	Accepts Null Value: yes, common null values
Minimum Value: 0	
Maximum Value: 40000	

# PLASMA

XSD Element Name: Plasma	XSD Schema Datatype: xs:integer
XSD ComplexType: Fluids4Hours	Multiple Entry Configuration: No
Required in XSD: Yes	Accepts Null Value: yes, common null values
Minimum Value: 0	
Maximum Value: 40000	

#### **PLATELETS**

XSD Element Name: Platelets	XSD Schema Datatype: xs:integer
XSD ComplexType: Fluids4Hours	Multiple Entry Configuration: No
Required in XSD: Yes	Accepts Null Value: yes, common null values
Minimum Value: 0	
Maximum Value: 40000	

# CRYOPRECIPITATE

XSD Element Name: Cryoprecipitate	XSD Schema Datatype: xs:integer
XSD ComplexType: Fluids4Hours	Multiple Entry Configuration: No
Required in XSD: Yes	Accepts Null Value: yes, common null values
Minimum Value: 0	
Maximum Value: 40000	

# LOWEST ED/HOSPITAL SYSTOLIC BLOOD PRESSURE

XSD Element Name: LowestSbp	XSD Schema Datatype: xs:integer
XSD ComplexType: Sbp	Multiple Entry Configuration: No
Required in XSD: Yes	Accepts Null Value: yes, common null values
Minimum Value: 0	
Maximum Value: 380	

## ANGIOGRAPHY

XSD Element Name: Angiography	XSD Schema Datatype: xs:integer
XSD ComplexType: Angiography	Multiple Entry Configuration: No
Required in XSD: Yes	Accepts Null Value: yes, common null values
Constraint: Enumerated List	

#### **EMBOLIZATION SITE**

XSD Element Name: EmbolizationSite	XSD Schema Datatype: xs:integer
XSD ComplexType: EmbolizationSite	Multiple Entry Configuration: Yes, max 7
Required in XSD: Yes	Accepts Null Value: yes, common null values
Constraint: Enumerated List	

## **ANGIOGRAPHY DATE**

XSD Element Name: AngiographyDate	XSD Schema Datatype: xs:date
XSD ComplexType: Date20102030	Multiple Entry Configuration: No
Required in XSD: Yes	Accepts Null Value: yes, common null values
Minimum Value: 2010-01-01	
Maximum Value: 2030-01-01	

## **ANGIOGRAPHY TIME**

XSD Element Name: AngiographyTime	XSD Schema Datatype: xs:time
XSD ComplexType: Time	Multiple Entry Configuration: No
Required in XSD: Yes	Accepts Null Value: yes, common null values

#### SURGERY FOR HEMORRHAGE CONTROL TYPE

XSD Element Name: HemorrhageControlSurgeryType	XSD Schema Datatype: xs:integer
XSD ComplexType: HemorrhageControlSurgeryType	Multiple Entry Configuration: No
Required in XSD: Yes	Accepts Null Value: yes, common null values
Constraint: Enumerated List	

#### SURGERY FOR HEMORRHAGE CONTROL DATE

XSD Element Name: HemorrhageControlSurgeryDate	XSD Schema Datatype: xs:date
XSD ComplexType: Date20102030	Multiple Entry Configuration: No
Required in XSD: Yes	Accepts Null Value: yes, common null values
Minimum Value: 2010-01-01 Maximum Value: 2030-01-01	

#### SURGERY FOR HEMORRHAGE CONTROL TIME

XSD Element Name:	XSD Schema Datatype: xs:time
HemorrhageControlSurgeryTime	
XSD ComplexType: Time	Multiple Entry Configuration: No
Required in XSD: Yes	Accepts Null Value: yes, common null values

#### WITHDRAWAL OF LIFE SUPPORTING TREATMENT

XSD Element Name: WithdrawalOfLifeSupportingTreatment	XSD Schema Datatype: xs:integer
XSD ComplexType: YesNo	Multiple Entry Configuration: No
Required in XSD: Yes	Accepts Null Value: yes, common null values
Constraint: Enumerated List	

## WITHDRAWAL OF LIFE SUPPORTING TREATMENT DATE

XSD Element Name: WithdrawalOfLifeSupportingTreatmentDate	XSD Schema Datatype: xs:date
XSD ComplexType: Date20102030	Multiple Entry Configuration: No
Required in XSD: Yes	Accepts Null Value: yes, common null values
Minimum Value: 2010-01-01	
Maximum Value: 2030-01-01	

# WITHDRAWAL OF LIFE SUPPORTING TREATMENT TIME

XSD Element Name:	XSD Schema Datatype: xs:time
WithdrawalOfLifeSupportingTreatmentTime	
XSD ComplexType: Time	Multiple Entry Configuration: No
Required in XSD: Yes	Accepts Null Value: yes, common null values

#### **ANTIBIOTIC THERAPY**

XSD Element Name: AntibioticTherapy	XSD Schema Datatype: xs:integer
XSD ComplexType: YesNo	Multiple Entry Configuration: No
Required in XSD: Yes	Accepts Null Value: yes, common null values
Constraint: Enumerated List	

## **ANTIBIOTIC THERAPY DATE**

XSD Element Name: AntibioticTherapyDate	XSD Schema Datatype: xs:date
XSD ComplexType: Date20102030	Multiple Entry Configuration: No
Required in XSD: Yes	Accepts Null Value: yes, common null values
Minimum Value: 2010-01-01	
Maximum Value: 2030-01-01	

## **ANTIBIOTIC THERAPY TIME**

XSD Element Name: AntibioticTherapyTime	XSD Schema Datatype: xs:time
XSD ComplexType: Time	Multiple Entry Configuration: No
Required in XSD: Yes	Accepts Null Value: yes, common null values

# **SURGEON SPECIFIC REPORTING - OPTIONAL**

# NATIOAL PROVIDER IDENTIFIER (NPI)XSD Element Name:<br/>NationalProviderIdentifierXSD Schema Datatype: xs:stringXSD ComplexType: NationalProviderIdentifierMultiple Entry Configuration: NoRequired in XSD: YesAccepts Null Value: yes, common null values

# Acknowledgements

# **ACS Committee on Trauma**

All participating board members

#### **NTDS Work Group**

Avery Nathans Michael Chang John Hunt Melanie Neal Christopher Hoeft Tammy Morgan Amy Svestka Alia Lien James Lynch Anne Feeler Jorie Klein Haris Subacius Charlotte-Luisa Cleveland

\* Special thanks to everyone who participated as a creator, editor, reviewer, producer, and pilot project participant of the NTDS since its inception\*