

Dedicated to protecting and improving the health and environment of the people of Colorado

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SECTION B: REQUIRED VARIABLES FOR DOWNLOAD TO THE STATE REGISTRY Updated January 1, 2016

2016 Update Summary

- A. Triage 1 New Code: PELV
 - Suspected pelvic fractures with instability
- B. Alternate Home Residence Retired 1 code: FV (Foreign Visitor)
- C. Age Units 1 New Code: X (Minutes)
- D. Systolic Blood Pressure at Assessment (initial ED/Hosp) Added additional information
 - Measurement recorded must be without the assistance of CPR or any type of mechanical chest compression device. For those patients who are receiving CPR or any type of mechanical chest compressions, report the value obtained while compressions are paused.
- E. Pulse Rate (initial ED/Hospital) Added additional information
 - Measurement recorded must be without the assistance of CPR or any type of mechanical chest compression device. For those patients who are receiving CPR or any type of mechanical chest compressions, report the value obtained while compressions are paused.
- F. Alcohol Evident Added additional information
 - Blood alcohol concentration (BAC) may be documented at any facility, unit, or setting treating this patient event.
- G. ICD-9/10 Diagnoses Added additional information
 - null value "NA" is used if not coding ICD-9/10
- H. ICD-9/10 Procedures Added additional information
 - null value "NA" is used if not coding ICD-9/10
- I. ICD-9/10 External Cause Codes Added additional information
 - null value "NA" is used if not coding ICD-9/10

J. ICD-10 Place of Occurrence External Cause Code— Added additional information

null value "NA" is used if not coding ICD10

K. Comorbidity Conditions - Added additional information

• For any Co-Morbid Condition to be valid there must be a diagnosis noted in the patient medical record that meets the definition noted in "Glossary of Terms"

Updated definitions (see glossary of terms under Comorbidity):

ETOH DEM ABUSE

L. Hospital Complications –

Field Values

Retired:

FAIL: Graft or prosthesis or flap failure

PNEU: Pneumonia

UTI: Urinary Tract Infection

CATH: Catheter-related bloodstream infection

Added:

CAUTI: Catheter-associated urinary tract infection

CLABSI: Central line-associated bloodstream infection

VAP: Ventilator-associated pneumonia

Updated definition: ARF (acute kidney injury), OSTEO (osteomyelitis)

Changed title: "Deep Vein Thrombosis/thrombophlebitis" to: "Deep Vein Thrombosis"

Changed title: "Cardiac arrest with resuscitative efforts by healthcare provider" to:

"Cardiac arrest with CPR"

M. Body Region of Injury – Modified definition/added notes

EXT – External, burns or other trauma: Includes all superficial injuries and external burns, lacerations, contusions and abrasions, independent of their location on the body surface

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Facility ID (INSTITUTE_NO)

Definition: A code for medical facilities. The codes assigned for each facility are maintained by the CDPHE for the Colorado Trauma Registry. The code entered for this variable represents the facility referred to as the "Trauma Center of Record" throughout this document.

Values: For facilities in Colorado, codes are in the form Lnnmm, where "L" is a

letter, "nn" is a county code, and "mm" is sequential within a county.

For out-of-state facilities, codes are in the form XLLnn, where "X" is an X,

"LL" is the state postal code, and "nn" is sequential within a state.

Examples: F1604 = The Children's Hospital, Denver, CO

E3101 = Weisbord Memorial Hospital, Eads, CO C4902 = Snowmass Clinic, Snowmass Village, CO

W4302 = Olathe Medical Clinic, Olathe, CO

XNM02 = San Juan Regional Medical Center, Farmington, NM

XUT01 = Allen Memorial Hospital, Moab, UT

Notes: A list of facilities and codes is found in Appendix I.

Data Type: Text Format: Length 6

Trauma Case Identification Number (TRACKING_NO)

Definition: A number that distinguishes this trauma case from all other trauma cases within a facility.

Values: Usually integers, but a returning case may have a number after the decimal point.

Examples: If a case is coded as 993, and the patient is readmitted for the same injury or for complications of the initial admission, the readmission should be coded as 993.1 rather than being assigned a new trauma case identification number (integer). Add ".2", ".3", etc. for each subsequent readmission related to this injury event.

Data Type: Number Format: Double

Medical Record Number (Medical_Record_Number)

Definition: The hospital's identification code for the patient's medical record. Values: The format and appropriate values vary for each hospital (see examples below). This variable should not contain the values "NONE" or "B".

Examples: Denver Health Medical Center: "000022040927", "K46621"

St Anthony Hospitals: "001514281-0001" Lutheran Medical Center: "M911241" Swedish Medical Center: "AQO1617921"

Invalid: "000000B" NA = Not applicable

UNK = Unknown or not documented

Notes: The medical record number should be unique to the patient and to the

admission (if applicable).

The medical record number should correspond to the number you would submit to medical records if you wanted to review the patient's medical

records from this hospitalization or ED visit.

Data Type: Text Format: Length 20

Patient Billing Number (Patient_Number)

Definition: The ID number or billing number for the admission. Also called "Financial

Number".

Values: The format and appropriate values vary for each hospital.

Patient's Last Name (Name_LAST)

Definition: Patient's last name as it appears on the medical record.

Examples: Smith

Harrison-Klein

Notes: If the person has an alias, write "Last Name 1" AKA "Last Name 2" (for

example, Smith AKA Brown)

Data Type: Text Format: Length 2

Patient's First Name (Name_FIRST)

Definition: Patient's first name as it appears on the medical record.

Examples: John

Susan

Notes: If the person has an alias, write "First Name 1" AKA "First Name 2" (for

example, John AKA Jake)

Data Type: Text Format: Length 20

Patient's Middle Name (Name_MI)

Definition: Patient's middle name or middle initial as it appears on the medical record.

Examples: D

J

Notes: If the patient uses terms such as Jr., Sr, III, etc. with their name, enter that

here.

Do not include a period (".") after the initial. If the patient does not have a middle name or if the middle name is unknown, enter "UNK". Do not enter

"NOT", "NA", "NMI", "NONE", "ND", etc.

Patient's Street Address of Residence (Address)

Definition: Patient's street address, post office box number, rural route number, or the

highway contract route number.

Values: Periods after abbreviations are not necessary in addresses.

Indicate whether it's N (North), E (East), S (South), or W (West). Include Room (Rm), Suite (Ste), or Apartment (Apt) number.

Abbreviations:

Street = St Road = Rd Lane = Ln= Ave Circle = Cir Place = Pl Avenue Drive = Dr Court = Ct Way = Way

Related Patient's City, County, Zip Code and State of Residence

Variables:

Examples: 450 S Clinton St, Apt 4C

PO Box 786 [A street address, if available, is preferable to a PO Box]

6500 County Rd 128

10254 S Highway 83 [for a state highway, just say highway]

3116 N US Highway 287

References: US Postal Service Addressing Standards:

https://www.usps.com/business/web-tools-apis/address-information.htm

Patient's City of Residence (RES_CITY)

Definition: Patient's city of residence.

Values: When the data is downloaded to CDPHE, the whole city name must be

spelled out.

NA = Not applicable UNK = Unknown

Related Patient's Address, Zip Code, County and State of Residence

Variables:

Grand Junction Examples: Colorado Springs Fort Morgan

Glenwood Springs

e.g. Invalid: "Grand Jct, CO"

Notes: When counting cases by city name, it is necessary to have consistency. In

a data base, "Colo Spgs", "CS", "C Spgs" "Colo Springs", and "Colorado Spgs" are considered different city names. Please be consistent in how

you enter city names at your facility.

Data Type: Format: Length 50 Text

Patient's Zip Code of Residence (ZIP_CODE)

Definition: Zip Code of the patient's residence

Values: 5-digit zip code

NA = Not applicable

UNK = Unknown or not documented

Related Patient's Address, City, County and State of Residence

Variables:

Most places have just one 5-digit zip code: for example, the town of Ouray **Examples:**

> is 81427. Larger cities may have more than one zip code. Also, zip codes may overlap city/county boundaries, so the same zip code may apply to

more than one city or county.

References: The US Postal Service address-lookup web page will give you the zip

code for any valid address:

https://www.usps.com/business/web-tools-apis/address-information.htm

Note: If the street address and city are available, use the USPS website above

to obtain the appropriate zip code.

Patient's State of Residence (RES_STATE)

Definition: Patient's state of residence.

Values: Two-letter US Postal abbreviation

AL = Alabama KY = Kentucky ND = North

Dakota

AK = Alaska LA = Louisiana OH = Ohio AZ = Arizona ME = Maine OK =

Oklahoma

AR = Arkansas MD = Maryland OR = Oregon

CA = California MA = Massachusetts PA =

Pennsylvania

CO = Colorado MI -= Michigan RI = Rhode

Island

CT = Connecticut MN = Minnesota SC = South

Carolina

DE = Delaware MS = Mississippi SD = South

Dakota

DC = District of Columbia MO = Missouri TN =

Tennessee

FL = FloridaMT = MontanaTX = TexasGA = GeorgiaNE = NebraskaUT = UtahHI = HawaiiNV = NevadaVT = VermontID = IdahoNH = New HampshireVA = Virginia

IL = Illinois NJ = New Jersey WA =

Washington

Virginia

IA = Iowa NY = New York WI = Wisconsin KS = Kansas NC = North Carolina WY = Wyoming PR = Puerto

Rico

NA = Not applicable (patient did not live in the U.S.)

UNK = Unknown or not documented

Related Patient's Zip Code, City and County of Residence

Variables:

References: See: https://www.usps.com/business/web-tools-apis/address-

information.htm

Patient's County of Residence (RES_COUNTY_STATE)

Definition: A code for the Colorado county where the patient lives.

Values: 1 = Adams 23 = Garfield

2 = Alamosa 24 = Gilpin 46 = Ouray 3 = Arapahoe 25 = Grand 47 = Park 4 = Archuleta 26 = Gunnison 48 = Phillips 5 = Baca 27 = Hinsdale 49 = Pitkin

6 = Bent 28 = Huerfano 50 = Prowers 7 = Boulder 29 = Jackson 51 = Pueblo 8 = Chaffee 30 = Jefferson 52 = Rio Blanco 9 = Cheyenne 31 = Kiowa 53 = Rio Grande

45 = Otero

 10 = Clear Creek
 32 = Kit Carson
 54 = Routt

 11 = Conejos
 33 = Lake
 55 = Saguache

 12 = Costilla
 34 = La Plata
 56 = San Juan

 13 = Crowley
 35 = Larimer
 57 = San Miguel

 14 = Custer
 36 = Las Animas
 58 = Sedgwick

 15 = Delta
 37 = Lincoln
 59 = Summit

 16 = Denver
 38 = Logan
 60 = Teller

 17 = Dolores
 39 = Mesa
 61 = Washington

 18 = Douglas
 40 = Mineral
 62 = Weld

19 = Eagle 41 = Moffat 63 = Yuma 20 = Elbert 42 = Montezuma 80 = Broomfield 21 = El Paso 43 = Montrose 90=Denver metro 22 = Fremont 44 = Morgan 98 = Out-of-State

NA = Not applicable (the patient is not a US resident)

UNK = Unknown or not documented

Related Patient's Zip Code, City and State of Residence **Variables:**

Notes: Use "98" if the patient is a U.S. resident but not a Colorado resident.

If the patient is known to live in the metro Denver area, but the exact

county is not known, use "90".

If the patient is not a U.S. resident, use "NA".

Patient's Home Country (COUNTRY)

Definition: A code for the country where the patient lives.

∨า	ues:
vai	เนษธ.

Vai	aco.						
US	United States	DA	Denmark	LI	Liberia		Principe
MX	Mexico	DJ	Djibouti	LY	Libya	SA	Saudi Arabia
CA	Canada	DO	Dominica	LS	Liechtenstein	SG	Senegal
AF	Afghanistan	DR	Dominican	LH	Lithuania	RB	Serbia
AL	Albania		Republic	LU	Luxembourg	SE	Seychelles
AG	Algeria	TT	East Timor	MK	Macedonia	SL	Sierra Leone
AN	Andorra	EC	Ecuador	MA	Madagascar	SN	Singapore
AO	Angola	EG	Egypt	MI	Malawi	LO	Slovakia
AC	Antigua and	ES	El Salvador	MY	Malaysia	SI	Slovenia
, .0	Barbuda	EK	Equatorial	MV	Maldives	BP	Solomon
AR	Argentina		Guinea	ML	Mali	D.	Islands
AM	Armenia	ER	Eritrea	MT	Malta	SO	Somalia
AS	Australia	EN	Estonia	RM	Marshall	SF	South Africa
AU	Austria	ET		IXIVI	Islands	SP	Spain
		FJ	Ethiopia	MR	Mauritania	CE	Sri Lanka
AJ	Azerbaijan		Fiji				
BF	Bahamas	FI	Finland	MP	Mauritius	SU	Sudan
BA	Bahrain	FR	France	FM	Micronesia	NS	Suriname
BG	Bangladesh	GB	Gabon	MD	Moldova	WZ	Swaziland
BB	Barbados	GA	Gambia	MN	Monaco	SW	Sweden
ВО	Belarus	GG	Georgia	MG	Mongolia	SZ	Switzerland
BE	Belgium	GM	Germany	MJ	Montenegro	SY	Syria
BH	Belize	GH	Ghana	MO	Morocco	TI	Tajikistan
BN	Benin	GR	Greece	MZ	Mozambique	TW	Taiwan
BT	Bhutan	GJ	Grenada	WA	Namibia	TZ	Tanzania
BL	Bolivia	GT	Guatemala	NR	Nauru	TH	Thailand
BK	Bosnia and	GV	Guinea	NP	Nepal	TO	Togo
	Herzegovina	PU	Guinea-	NL	Netherlands	TN	Tonga
BC	Botswana	Bissau		NZ	New Zealand	TD	Trinidad and
BR	Brazil	GY	Guyana	NU	Nicaragua		Tobago
BX	Brunei	HA	Haiti	NG	Niger	TS	Tunisia
BU	Bulgaria	VT	Holy See	NI	Nigeria	TU	Turkey
ŪV	Burkina Faso	HO	Honduras	NO	Norway	TX	Turkmenistan
BM	Burma	HU	Hungary	MU	Oman	TV	Tuvalu
BY	Burundi	IC	Iceland	PK	Pakistan	ÜĞ	Uganda
СВ	Cambodia	IN	India	PS	Palau	UP	Ukraine
CM	Cameroon	ID	Indonesia	PM	Panama	AE	United Arab
CV	Cape Verde	IR	Iran	PP	Papua New	ΛL	Emirates
CT	Cape Verde Central African	IZ	Iraq	FF	Guinea	UK	United
CI		EI	Ireland	DΛ		UK	
CD	Republic			PA	Paraguay	LIV	Kingdom
CD	Chad	IS	Israel	PE	Peru	UY	Uruguay
CI	Chile	IT.	Italy	RP	Philippines	UZ	Uzbekistan
CH	China	JM	Jamaica	PL	Poland	NH	Vanuatu
CO	Colombia	JA	Japan	PO	Portugal	VE	Venezuela
CN	Comoros	JO	Jordan	QA	Qatar	VM	Vietnam
CF	Congo	KZ	Kazakhstan	RO	Romania	YM	Yemen
	(Brazzaville)	KE	Kenya	RS	Russia	ZA	Zambia
CG	Congo	KR	Kiribati	RW	Rwanda	ZI	Zimbabwe
	(Kinshasa)	KN	Korea, North	SC	Saint Kitts and	NA	Not
CS	Costa Rica	KS	Korea, South		Nevis	applicable	е
IV	Cote d'Ivoire	KU	Kuwait	ST	Saint Lucia	UNK	Unknown
HR	Croatia	KG	Kyrgyzstan	VC	Saint Vincent		
CU	Cuba	LA	Laos		& Grenadin		
CY	Cyprus	LG	Latvia	WS	Samoa		
ΕZ	Czech	LE	Lebanon	SM	San Marino		
	Republic	LT	Lesotho	TP	Sao Tome and		
	- F -	•	· · -	* *			

Notes: Only complete when the patient's city, county, and zip code of residence are "Not

applicable" ("'NA"").

Alternate Home Residence (HOME)

Definition: Documentation of the type of patient without a home zip code.

Values: HOME= Homeless

UND= Undocumented citizen

MI= Migrant worker

FV= Foreign visitor FV variable was retired at the end of 2015

NA= Not applicable

UNK= Unknown or not documented

Notes: Only complete when ZIP code is 'Not applicable'.

Homeless is defined as a person who lacks housing. The definition also includes a person living in transitional housing or a supervised public or private facility providing temporary living quarters.

Undocumented citizen is defined as a national of another country who has entered or stayed in another country without permission.

Migrant worker is defined as a person who temporarily leaves his/her principal place of residence within a country in order to accept seasonal employment in the same country.

Foreign visitor is defined as any person visiting a country other than his/her usual place of residence for any reason without intending to receive earnings in the visited country.

Patient's Date of Birth (DOB)

Definition: Patient's date of birth.

Related

Patient's Age

Variables:

Examples:

06/01/1954

10/24/2000

Notes: The 4-digit year is required to compute the age of patients born in different

centuries.

Data Type: Date **Format:** mm/dd/yyyy

Patient's Age (AGE)

Definition: The patient's age as a number (can be years, months, weeks, or days).

Related

Age Units

Variables:

Notes: Use this variable in combination with the variable "Age Units". Age is typically

calculated by the software using date of birth and date of injury.

Data Type: Number Format: Length 3

Age Units (AGE_UNITS)

Definition: The units of the patient's age.

Values: H = Hours D = Days

M = Months Y = Years W = Weeks X = Minutes

The minutes value was added in 2016

Related

Patient's Age (with Variable Units)

Variables:

Notes: Use this variable in combination with the variable "Patient's Age". Age is typically

calculated by the software using date of birth and date of injury.

Patient's Gender (SEX)

Definition: Patient's gender.

Values: M = Male

F = Female

NA = Not applicable

UNK = Unknown or not documented

Notes: Patients who have undergone a surgical and/or hormonal sex reassignment

should be coded using the current assignment.

Data Type: Text Format: Length 3

Patient's Race (RACE)

Definition: Patient's race.

Values: 1 = White

2 = Black or African American

3 = Asian

4 = American Indian 6 = Other Race

7 = Native Hawaiian or Other Pacific Islander

NA = Not applicable

UNK = Unknown or not documented

Notes: This variable might be difficult to determine. Possible sources include the patient's

self-description or information from the medical record face sheet. It should be

based on self-report or as identified by a family member, when possible.

Data Type: Text Format: Length 3

Patient's Second Race (RACE_OTHER)

Definition: Patient's secondary race.

Values: 1 = White 2 = Black or African American

3 = Asian 4 = American Indian

6 = Other Race 7 = Native Hawaiian or Other Pacific Islander

NA = Not applicable UNK= Unknown or not documented

Notes: This variable might be difficult to determine. Possible sources include the patient's

self-description or information from the medical record face sheet.

Patient's Ethnicity (ETHNICITY)

Definition: Patient's ethnicity.

Values: H = Hispanic or Latino

N = Not Hispanic or Latino

NA = Not applicable

UNK = Unknown or not documented

Notes: Patient ethnicity should be based upon self-report or identified by a family member.

Data Type: Text Format: Length 3

Date of Injury (INJURY_DATE)

Definition: Date the injury occurred.

Examples: 02/08/2006

Related Time of Injury, Injury Time Known

Variables:

Notes: This date should be the same as or earlier than any of the other dates in the

trauma care sequence. The injury date/time can be different from the EMS response date/time. For example, if the patient was injured in an event, then

realized a few days later that he/she wasn't feeling well, the patient might then call

EMS or go to the ED.

Injury date/time helps provide information about response time and how long it

takes a patient to seek help.

Data Type: Date **Format:** mm/dd/yyyy

Time of Injury (INJURY_TIME)

Definition: Time the injury occurred.

Values: 00:01 (midnight) through 23:59

Related Date of Injury, Injury Time Known

Variables:

Notes: The injury date and time provide an anchor at one end of the sequence of

transport events.

Data Type: Time **Format:** hh:mm

Injury Time Known (INJURY_TIME_KNOWN)

Definition: Is the injury time reported "exact", estimated or unknown?

Values: EXACT Time of injury is +/- 30 minutes.

EST Time of injury is estimated.

UNK Time of injury is unknown - no time is mentioned in the medical record.

Related Variables:

Date of Injury, Time of Injury

Notes:

This field indicates how the injury time is known. Is it Exact, Estimated (by the registrar) or Unknown? Exact does not have to be to the minute. For example, if the medical record states that the event happened "around noon today", "about a half hour before the patient came to ED", etc., indicate "Exact". Just round off, and put noon, or 1/2 hour prior to arrival in ED, respectively. Use the label "Exact" if you have information within a 30-minute window of when the event happened. If however, a patient reports that he fell "sometime last night," that would be an estimated time of injury. You could arbitrarily use 8:00 pm and put ESTIMATED. If there is no mention in the medical record of when the injury occurred, enter UNK.

Location of Injury (LOCALE)

Definition: The location where the injury incident occurred.

Values: If possible, give the actual street address. If the actual street address is not

available, include as much detailed information as you can, such as the nearest street address, intersection, city, etc. Include information regarding location type,

such as the NAME of a school, business, public park, public building, etc.

Related Injury Zip Code, County and State

Variables: Injury Location Type

Examples: "Home of patient's grandmother at 4638 W Hampden Ave, Englewood"

"Slope at Snowmass Ski Area"

"Sidewalk in front of Red Ram Lounge, 277 First Ave, Ft Collins" "Intersection of Dartmouth Ave & Sheridan Blvd, Lakewood"

"13 miles into Weminuche Wilderness Area from trailhead near Bayfield"

"Miller Middle School Playground, Ft Lupton"

Notes: Enter the injury location as specifically as possible. Enough information should be

provided to be able to determine the location type.

If the injury occurred at the patient's home, do NOT write "Patient's home." Please enter the address information again (street address and city in this field; zip code,

county, and state in their respective fields).

If the injury occurred at someone else's home, enter the address information if available (including the appropriate zip, county and state in their respective fields).

If the injury occurred at a ski resort, enter the name of the ski resort.

For motor vehicle crashes, include the name of the street or highway and milemarkers or cross streets.

If the injury occurred in a nursing home, enter the name of the nursing home.

Incident City (NEAREST_TOWN)

Definition: The city or town where the incident occurred or where the patient was found (or

best approximation).

Values: Name of the city. See details in the description of Patient's City of Residence

(page 8).

NA = Not applicable

UNK = Unknown or not documented

Notes: Used to determine the FIPS code. Only complete when Incident Location ZIP code

is "Not applicable" or 'Unknown".

Data Type: Text Format: Length 50

Injury Location Zip Code (INJURY_ZIP)

Definition: Zip Code of the place where the injury incident occurred.

Values: 5-digit zip code.

NA= Not applicable

UNK= Unknown or not documented Locale; Injury County and State

Related Variables:

References: The US Postal Service address-lookup web page will give you the zip code for any

valid address: http://zip4.usps.com/zip4/welcome.jsp

Notes: Code the injury location as specifically as possible. Put the injury address and city

in the "Locale" variable. Zip code can later be determined from the address. Start with the most specific information you have, then complete the less specific. Start with the injury address, and then enter injury zip code, county and state. If the street address and city are available, use the USPS website above to obtain the

appropriate zip code.

Injury Location State (INJURY_STATE)

Definition: The state where the injury incident occurred.

Values: Two-letter US Postal abbreviation

AL = Alabama KY = Kentucky ND = North Dakota

AK = Alaska LA = Louisiana OH = Ohio AZ = ArizonaME = Maine OK = Oklahoma AR = Arkansas MD = Maryland OR = Oregon MA = Massachusetts CA = California PA = Pennsylvania CO = Colorado MI -= Michigan RI = Rhode Island CT = Connecticut MN = Minnesota SC = South Carolina

DE = Delaware MS = Mississippi SD = South Dakota
DC = District of Columbia MO = Missouri TN = Tennessee

TX = Texas FL = Florida MT = Montana GA = Georgia NE = Nebraska UT = Utah HI = Hawaii VT = Vermont NV = Nevada ID = Idaho NH = New Hampshire VA = Virginia IL = Illinois NJ = New Jersey WA = Washington NM = New Mexico WV = West Virginia IN = Indiana IA = Iowa NY = New York WI = Wisconsin WY = Wyoming KS = Kansas NC = North Carolina

PR = Puerto Rico

NA = Not applicable (injury event did not occur in the U.S.)

UNK = Unknown or not documented

Related Variables:

Locale; Injury Zip Code and County

variables.

References: http://www.usps.com/ncsc/lookups/abbreviations.html

Injury Location County (COUNTY_STATE)

Definition: ☐ Values:

The Colorado county where the injury incident occurred.

 1 = Adams
 23 = Garfield
 45 = Otero

 2 = Alamosa
 24 = Gilpin
 46 = Ouray

 3 = Arapahoe
 25 = Grand
 47 = Park

 4 = Archuleta
 26 = Gunnison
 48 = Phillips

 5 = Baca
 27 = Hinsdale
 49 = Pitkin

5 = Baca27 = Hinsdale49 = Pitkin6 = Bent28 = Huerfano50 = Prowers7 = Boulder29 = Jackson51 = Pueblo8 = Chaffee30 = Jefferson52 = Rio Blanco9 = Cheyenne31 = Kiowa53 = Rio Grande

10 = Clear Creek 32 = Kit Carson 54 = Routt11 = Coneios 33 = Lake 55 = Saguache 12 = Costilla 34 = La Plata56 = San Juan 13 = Crowley 35 = Larimer57 = San Miguel 14 = Custer 36 = Las Animas 58 = Sedgwick 15 = Delta 37 = Lincoln59 = Summit16 = Denver 38 = Logan60 = Teller

17 = Dolores39 = Mesa61 = Washington18 = Douglas40 = Mineral62 = Weld19 = Eagle41 = Moffat63 = Yuma20 = Elbert42 = Montezuma80 = Broomfield

21 = El Paso 43 = Montrose 90=Denver Metro 22 = Fremont 44 = Morgan 98 = Out-of-state

UNK = Unknown or not documented

If the patient was transported to your facility by private vehicle, and you have reason to think the patient was injured in the metro Denver area but the exact county is not known, enter "90".

Related Variables:

Locale; Injury Zip Code and State

Notes:

This variable only applies to injuries that occurred in Colorado. If you know the city in Colorado where the person was injured, but you don't know the county, use the National Association of Counties website at

http://www.naco.org/Pages/default.aspx to identify the appropriate county for a city. If the injury occurred outside of Colorado, enter "98".

Incident Country (INJURY_COUNTRY)

Definition: The country where the injury incident occurred.

Val	ues:
v a	ucs.

		EZ	Czech Republic	LT	Lesotho	SM	San Marino
US	United States	DA	Denmark	LI	Liberia	TP	Sao Tome and
MX	Mexico	DJ	Djibouti	LY	Libya		Principe
CA	Canada	DO	Dominica	LS	Liechtenstein	SA	Saudi Arabia
AF	Afghanistan	DR	Dominican	LH	Lithuania	SG	Senegal
AL	Albania		Republic	LU	Luxembourg	RB	Serbia
AG	Algeria	TT	East Timor	MK	Macedonia	SE	Seychelles
AN	Andorra	EC	Ecuador	MA	Madagascar	SL	Sierra Leone
AO	Angola	EG	Egypt	MI	Malawi	SN	Singapore
AC	Antigua and	ES	El Salvador	MY	Malaysia	LO	Slovakia
710	Barbuda	EK	Eguatorial Guinea	MV	Maldives	SI	Slovenia
AR	Argentina	ER	Eritrea	ML	Mali	BP	Solomon Islands
AM	Armenia	EN	Estonia	MT	Malta	SO	Somalia
AS	Australia	ET	Ethiopia	RM	Marshall Islands	SF	South Africa
AU	Austria	FJ	Fiji	MR	Mauritania	SP	Spain
AJ	Azerbaijan	FI	Finland	MP	Mauritius	CE	Sri Lanka
BF	Bahamas	FR	France	FM	Micronesia	SU	Sudan
BA	Bahrain	GB	Gabon	MD	Moldova	NS	Suriname
BG		GA		MN		WZ	Swaziland
BB	Bangladesh	GG	Gambia	MG	Monaco	SW	
	Barbados		Georgia		Mongolia		Sweden
ВО	Belarus	GM	Germany	MJ	Montenegro	SZ	Switzerland
BE	Belgium	GH	Ghana	MO	Morocco	SY	Syria
BH	Belize	GR	Greece	MZ	Mozambique	TI	Tajikistan
BN	Benin	GJ	Grenada	WA	Namibia	TW	Taiwan
BT	Bhutan	GT	Guatemala	NR	Nauru	TZ	Tanzania
BL	Bolivia	GV	Guinea	NP	Nepal	TH	Thailand
BK	Bosnia and	PU	Guinea-Bissau	NL	Netherlands	TO	Togo
	Herzegovina	GY	Guyana	NZ	New Zealand	TN	Tonga
BC	Botswana	HA	Haiti	NU	Nicaragua	TD	Trinidad and
BR	Brazil	VT	Holy See	NG	Niger		Tobago
BX	Brunei	НО	Honduras	NI	Nigeria	TS	Tunisia
BU	Bulgaria	HU	Hungary	NO	Norway	TU	Turkey
UV	Burkina Faso	IC	Iceland	MU	Oman	TX	Turkmenistan
BM	Burma	IN	India	PK	Pakistan	TV	Tuvalu
BY	Burundi	ID	Indonesia	PS	Palau	UG	Uganda
CB	Cambodia	IR	Iran	PM	Panama	UP	Ukraine
CM	Cameroon	ΙZ	Iraq	PP	Papua New	AE	United Arab
CV	Cape Verde	EI	Ireland		Guinea		Emirates
CT	Central African	IS	Israel	PA	Paraguay	UK	United Kingdom
	Republic	ΙΤ	Italy	PE	Peru	UY	Uruguay
CD	Chad	JM	Jamaica	RP	Philippines	UZ	Uzbekistan
CI	Chile	JA	Japan	PL	Poland	NH	Vanuatu
CH	China	JO	Jordan	PO	Portugal	VE	Venezuela
CO	Colombia	KZ	Kazakhstan	QA	Qatar	VM	Vietnam
CN	Comoros	KE	Kenya	RO	Romania	YM	Yemen
CF	Congo	KR	Kiribati	RS	Russia	ZA	Zambia
	(Brazzaville)	KN	Korea, North	RW	Rwanda	ZI	Zimbabwe
CG	Congo (Kinshasa)	KS	Korea, South	SC	Saint Kitts and	NA	Not applicable
CS	Costa Rica	KÜ	Kuwait		Nevis	UNK	Unknown
IV	Cote d'Ivoire	KG	Kyrgyzstan	ST	Saint Lucia		
HR	Croatia	LA	Laos	VC	Saint Vincent &		
CU	Cuba	LG	Latvia		Grenadine		
CY	Cyprus	LE	Lebanon	WS	Samoa		
٠.	0,10.00						

Notes: Only complete when the injury incident occurred outside the US.

Injury Location Type (LOCATION)

Definition: Type of location where the injury occurred. The information entered in this variable

should reflect the type of location where the injury occurred, NOT what the person

was doing at the time of injury.

Values: HOME: The interior and exterior of any private home or private residence.

Includes house, farm house, apartment, condominium, boarding house, private driveway, private garage, private garden, and private walkway, swimming pool within private house or garden, and yard of home. Excludes home under construction but not occupied, or an institutional place of residence.

FARM: Includes farm buildings (barn, storage) and land under cultivation (orchard, field). Excludes farmhouse and home premises of the farm.

RES: Residential institution. Includes dormitory, hospital, jail or prison, home for the elderly, orphanage, barracks, reform school, nursing home.

REC: Place for recreation or sport. Includes school playground, gymnasium, athletic fields (baseball, football, soccer, etc), athletic courts (basketball, tennis, etc.), rinks (ice, roller, hockey), golf course, public park, holiday camp, race course, resorts of all types, riding school, rifle range, stadium, public swimming pool. Excludes athletic and recreational injuries that occur in a private house or yard.

STREET: Includes all public roadways.

HIGH: Includes highway, interstate, freeway.

PUBLIC: Any building used by the general public, including the adjacent grounds, driveways, & parking lots. Includes airport, bank, restaurant, bar or nightclub, bus or railway station, business office, casino, clubhouse, courthouse, dance hall, gas station, hotel or motel, movie theater, music hall, office building, place of worship, post office, store, theaters, non-residential parking garage. Excludes home garage or industrial building or workplace. Also excludes public and private schools.

INDUS: Industrial settings and work places. Includes construction site, motor vehicle/boat sales/repairs, industrial plant and yard, warehouse, laboratory/science lab, truck dockyard, garage (if a place of work), loading platform in factory or store, railway yard, repair shop.

MINE: Mine and quarry.

EDUC: Educational Facilities. Includes any public or private school, from preschool through universities and adult education facilities.

Excludes playground, gym, athletic field, and other recreational locations within education institutions. These should be coded as place for recreation (REC).

OTHER: Other specified location. Use this option only if none of the other options can be justified (for example, REC, for recreation area). This option may include forest, open land or field, vacant lot, graded/cared for plot of land, lake, river, railroad right of way, beach, desert, mountain, pond, prairie, reservoir, abandoned building.

NA: Not applicable

UNK: Unknown or not documented

Related Locale

E849 "Place of Occurrence" codes: Variables:

> HOME = E849.0 FARM = E849.1 RES = E849.7 REC = E849.4 STREET = E849.5HIGH = E849.5 **PUBLIC = E849.6** INDUS = E849.3

MINE = Included in E849.3 EDUC = No E849 code OTHER = E849.8

UNK = E849.9

References: ICD-9-CM coding manual

Notes: Injury location type should reflect the type of location where the injury occurred,

NOT what the person was doing at the time of injury.

"Work" is not a valid option.

For more information on assigning Injury Location Type, see Appendix III.

ICD-10 Place of Occurrence External Cause Code (PLACEOFCAUSEICD10)

Definition: Place of occurrence external cause code used to describe the place/site/location

of the injury event (Y92.x).

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

Notes: Only ICD-10-CM codes will be accepted for ICD-10 Place of Occurrence

External Cause Code

Field cannot be blank (at least one ICD-10 trauma code must be entered) Place of injury code should be Y92.X/ Y92.XX/ Y92.XXX (where X is A-Z

{excluding I, O} or 0-9)

Null value "NA" is used if not coding ICD10

Data Source Hierarchy: 1. EMS Run Report

2. Triage/ Trauma Flow Sheet3. Nursing Notes/ Flow Sheet4. History and Physical

5. Progress Notes

Data Type: Text Format: Length 7

Work-Related (INDUST_ACC)

Definition: Indication of whether the injury occurred during paid employment.

Values: N = Not work related

Y = Work related NA = Not applicable

UNK = Unknown or not documented

Notes: If the injury is work-related, two additional data fields must be completed:

OCCUPATION and INDUSTRY_TYPE. This field allows one to characterize

injuries associated with job environments.

Patient's Occupation (OCCUPATION)

Definition: The patient's occupation.

Value

ARC= Architecture/Engineering MAN= Management

BUS = Business and Financial Operations MIL= Military

COM = Community and Social Service OFFICE= Office and Administrative support

COMP= Computer/ Mathematics PER= Personal Care and Service

CONS= Construction/Extraction PRO= Protective Service DISABLED= Disabled PROD= Production

ED= Education, Training, Library REP = Installation/Maintenance/ Repair

ENT = Arts, Design, Entertainment, Sports, RETIRED= Retired

Media SALE= Sales and Related

FARM= Farming/Fishing/Forestry SCI= Life/Physical/Social Science

FOOD = Food Preparation/Serving STUDENT= Student

HEALTH= Healthcare Practitioners/ Technical TRANS= Transportation and Material Moving

HS = Healthcare Support NA= Not applicable

LEGAL= Legal Occupations UNK= Unknown or not document MAIN= Building/ Ground/

Notes: Only complete if the injury is work-related. If the injury is work-related, also

complete INDUSTRY TYPE. These codes are based upon 1999 US Bureau of

Labor Statistics Standard Occupational Classification (SOC) (see

http://www.bls.gov/soc/home.htm) and are used to better describe injuries

associated with work environments.

Patient's Occupational Industry (INDUSTRY_TYPE)

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

Values:

AG= Agriculture, Forestry, Fishing

CONS= Construction

EDU= Education and Health Services FINANCE= Finance, Insurance and Real Estate

GOV= Government

INF= Information Services LEISURE= Leisure and Hospitality

MAN= Manufacturing

NR= Natural Resources and Mining
PROF= Professional and Business Services

RETAIL= Retail Trade

TRANS= Transportation and Public Utilities

WHOLE= Wholesale Trade
OTHER= Other Services
NA = Not applicable

UNK= Unknown or not documented

Notes: Only complete if the injury is work-related. If the injury is work-related, also

complete OCCUPATION. These codes are based upon US Bureau of Labor Statistics Industry Classification (http://www.bls.gov/soc/home.htm) and are used

to better describe injuries associated with work environments.

Injury Description & Circumstances (INJURY_DETAILS)

Definition: A description of the injury circumstances.

Values: Free text Related E-Codes

Variables: Cause of Injury Code

Notes: Provide as complete a description of the circumstances as possible. This

information is used to support the external cause of injury coding (E-codes). There should be enough information so that anyone reading your account of how the injury occurred could come up with the same E-code as you do. You don't need to repeat information provided elsewhere (such as diagnoses or the exact location where the injury occurred). If the injury occurred as a result of a motor vehicle crash, include whether the patient was a driver or passenger. Other helpful information to include in this field can be age, gender, use of protective devices, when the injury occurred if different from the date the patient came to your hospital and whether the patient was referred from another hospital. Mention intentionality (intentional vs. accidental injury) if known, particularly with stab wounds and gunshot wounds. Include all of the events that happened in the order in which they

occurred.

Examples: "Pt was walking along I-76, was hit by motor vehicle. Pt was thrown over guardrail

and down 15-20 ft embankment onto RD 26."

"Pt was competing in a rodeo, was thrown from a bull onto right side, and then was kicked by the bull."

"Skiing, went over a jump, landed then ran into a tree. Unknown whether a helmet was being used at the time of injury."

"80 y/o female presented to another hospital today C/O of a severe headache. She fell last night when she tripped over her dog. Hit her head at that time, but felt OK initially. Transferred here for neurosurgery consult."

Bad Examples:

"MVA" "Ski"

ICD-9 External Cause Code (CAUSE_E_CODES)

Definition: An "external cause of injury code" from the ICD-9-CM coding system.

Values: Values are 3-digit numbers. There may also be a decimal point and up to two

digits after the decimal point.

Valid E-codes are in the E800 to E995 range.

Related Cause of Injury Code

Variables: Injury Description & Circumstances

E849 codes are closely related to Injury Location Type

References: ICD-9-CM coding manual. "Supplementary Classification of External Causes of

Injury and Poisoning (E800-E999)"

"Recommended Framework for Presenting Injury Mortality Data". MMWR Vol 46,

No. RR-14, Aug 29, 1997.

Notes: Null value "NA" is used if not coding ICD9

The primary E-code should describe the main reason a patient is admitted to the

hospital.

Always include at least two E-Codes: one for the cause and one for the location (E849). In some instances, you might need to enter three E-Codes: two describing how the injury occurred and one for the location. Do not enter the

location E-code (E849.x) as the first E-code.

Use the ICD-9-CM coding rules appropriately. For more information about

assigning E-codes, see Appendix VII.

In the National Trauma Data Bank (NTDB), E-codes are used to auto-generate two calculated fields: Trauma Type (Blunt, Penetrating, Burn) and Intentionality (based upon the CDC injury matrix). See page 30-32 of the 2011 National Trauma

Data Standards dictionary at http://www.ntdsdictionary.org/ .

ICD-10 Primary External Cause Code (CAUSEICD10)

Definition: External cause code used to describe the mechanism (or external factor) that

caused the injury event

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

Notes: Null value "NA" is used if not coding ICD10

The primary external cause code should describe the main reason a patient is admitted to the hospital. This is the FIRST listed code.

Additional external cause codes, if applicable, should be reported in this field to describe the injury event.

Additional external cause codes should not be equal to the primary external cause code

An E-Code is not a valid ICD-10-CM

External cause codes are used to auto-generate two calculated fields: Trauma

Type (Blunt, Penetrating, Burn) and Intentionality (based upon CDC matrix).

Activity codes should not be reported in this field

Data Source Hierarchy: 1.EMS Run Report

Triage/Trauma Flow Sheet
 Nursing Notes/ Flow Sheet

4. History and Physical

5. Progress Notes

ICD-10 Additional External Cause Code (ADDITIONALCAUSEICD10)

Definition: Additional External Cause Code used in conjunction with the Primary External

Cause Code if multiple external cause codes are required to describe the injury

event.

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

Notes: Null value "NA" is used if not coding ICD10

External cause codes are used to auto-generate two calculated fields:

Trauma Type (Blunt, Penetrating, Burn) and Intentionality (based upon CDC

matrix).

Only ICD-10-CM codes will be accepted for ICD-10 Additional External Cause

Code

Activity codes should not be reported in this field.

E-Code is not a valid ICD-10-CM code

Additional External Cause Code ICD-10 should not be equal to Primary External

Cause Code ICD-10

Cause of Injury Code (CAUSE_CODE)

Definition: A code for the cause of injury.

Values: Use this variable for cases where specific E-codes are not available. Some

examples include:

SKI = Snow skiing (do not include water skiing in this category)

SPORT = Any sport-related injury (except SKI and SNOWB)

SNOWB = Snowboarding (if you don't know if ski or snowboard, use SKI)

SUI = Suicide (completed or attempted)

ATV = All-terrain vehicle

Related E-Codes

Variables: Injury Description & Circumstances

ICD-10 External Cause codes

Notes: In analyzing data at the state level, more reliance will be placed on identifying the

mechanism of injury using E-codes. This variable helps to identify specific types of

injuries for which E-coding is not specific enough.

In past discussions with registrars on standard definitions for these codes, it became obvious that different facilities use these codes in different ways. A decision was made to NOT standardize the definitions for the codes, and for hospitals to continue to use these codes as they always have. Analysis of data at

the state level will rely on E-codes and the injury description rather than the

"Cause of Injury" code.

Trauma Type (TRAUMA_TYPE)

Definition: Trauma type, based on the injury most likely to influence the probability of survival.

Values: B = Blunt trauma

P = Penetrating trauma

T = Thermal (e.g., burns, frostbite)

NA = Not applicable (e.g., for readmissions)

UNK = Unknown or not documented

Related ICD9/ICD10 codes **Variables:** Diagnosis description

E-Codes

AIS Severity Level Triage Codes

Notes: The primary reason for assigning trauma type is for calculation of the probability of

survival. For more discussion on assigning trauma type, see Appendix VIII.

In brief:

Penetrating trauma is defined as: any wound or injury caused by a sharp implement resulting in penetration of the skin and either entrance into a cavity, or for the extremities, into deeper structures such as tendons, nerves, vascular structures or deep muscle beds. Penetrating trauma requires more than one layer of suturing for closure.

Thermal trauma is defined as: any trauma resulting from thermal injury, such as thermal burns, frostbite, scald, and chemical burns.

Blunt trauma is defined as any other type of injury, including hangings, drownings, lightning strikes, and snake bites.

Protective Devices (PROTECTIVE_DEVICES)

Definition: Protective device(s) used by the patient at the time the injury occurred.

Values: NONE = No protective device used

3PT = Both lap and shoulder belt (maps to "Shoulder" in NTDS)
AIR = Airbag present (see page 33 for details regarding deployment)
BELT = Patient was restrained, but no further details are available

CHILD = Child restraint (booster seat, child car seat)
CLOTH = Protective clothing (e.g. padded leather pants)

EYE = Eye protection

FLOAT = Personal Flotation Device

GEAR = Protective non-clothing gear (e.g., knee pads, shin/wrist guards)

HEL = Helmet (e.g., bicycle, skiing, motorcycle)

LAP = Lap belt only
SHOUL = Shoulder belt only
OTHER = Other protection
NA = Not applicable

UNK = Unknown or not documented

Related Variables:

Injury Description & Circumstances

Notes:

Sometimes EMS reports will state that the patient "was restrained," but not mention the type of restraint used. In this instance, "BELT" would be the appropriate state code.

With regard to choosing between "NONE", "NA", and "UNK."

➤ Choose "NONE" when personal protective equipment is known to be available for the activity in which the patient was injured, and the medical record specifically mentions that the patient DID NOT have a helmet on, or WAS NOT restrained, or WAS NOT wearing protective eyewear, etc. Some activities where one would expect the use of personal protective equipment include:

Riding in a motor vehicle – Airbags, lap/shoulder belts, child restraints

Riding on a Motorcycle - Helmet, protective clothing

Bicycling - Helmet

Skateboarding – Helmet

Rollerblading – Helmet, knee pads, wrist pads

Roofing – Fall protection

Skiing/Telemark Skiing – Helmet

Snowboarding – Helmet

Construction – Hard Hat (Helmet)

Boating – Flotation Device

Football - Helmet, Protective Clothing, Mouth protection (other)

Hockey – Helmet, Protective Clothing, Eye protection, Mouth protection (other)

Chemist - Eye Protection

Welders – Face Shield, Protective Clothing (gloves), hard hat (helmet)

Rock Climbing – Helmet

- ➤ Choose "UNK" when personal protective equipment is known to be available for the activity in which the patient was injured, and the chart does not mention whether protective equipment was used or not.
- ➤ Choose "NA" (not applicable) when someone is injured in an activity that does not normally require protective devices, such as walking down the street or around their own home.
- ➤ If you don't know whether protective equipment is available or not for a specific activity, and there is nothing mentioned in the medical record about the use of equipment, select "UNK."

Data Type: Text Format: Length 6

Airbag Deployment (AIRBAG)

Definition: Indication of an airbag deployment during a motor vehicle crash

Values:

N = Airbag not deployedF = Airbag deployed, FrontS = Airbag deployed, Side

O = Airbag deployed, Other (knee, airbelt, curtain, etc.)

NA = Not applicable

UNK = Unknown or not documented

Notes:

Used to better define injury cause and characterize injury patterns. Evidence of the use of airbag deployment may be reported or observed. This variable is only completed when Protective Devices include "AIR". Check all that apply.

If airbag deployment is documented, but the specific type of airbag (front, side or other) is not mentioned, enter "F" (Airbag deployed, Front).

Data Type: Text Format: Length 3

Child Specific Restraint (CHILD_RESTRAINT)

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

Values:

CHILD= Child car seat
INFANT= Infant car seat
BOOSTER= Child Booster seat

NA= Not applicable

UNK= Unknown or not documented

Notes: Evidence of the use of child restraint may be reported or observed. This variable

is only completed when Protective Devices include "CHILD".

Report of Physical Abuse (ABUSEREPORT)

Definition: report of physical abuse was made to law enforcement and/or protective services

Values: Y =Yes

N =No Cannot be NA

Notes: Includes but is not limited to reporting of child, elder, spouse or intimate partner

physical abuse.

Data Type: Text Format: Three

Investigation of Physical Abuse (ABUSEINVESTIGATION)

Definition: Investigation by law enforcement and/or protective services was initiated because

of the suspect ted physical abuse.

Values: Y = Yes

N = No

NA = Not applicable

Notes: Includes, but not limited to reporting of child, elder, spouse or intimate partner

abuse.

Not Applicable should be used for when Report of Physical Abuse is No

Data Type: Text **Format:** Three

Caregiver at Discharge (ABUSECAREGIVER)

Definition: Patient was discharged to a caregiver different than the caregiver at admission

due to suspected physical abuse.

Values: Y =Yes

N = No

NA = Not Applicable

Notes: Only complete when Report of physical abuse is Y (Yes)

Only complete for minors (<18 years of age)

NA value should be used for patients where the Report of physical abuse is NO or

if patient expires prior to discharge

Data type: Text **Format**: Three

Alcohol Evident (EV)

Definition: Is there any indication that the patient had been using alcohol at the time of the

injury?

Values: Y= Yes. There are comments in the medical record, prehospital trip sheet or by

verbal report that suggest the patient used alcohol at the time of the injury YL= Yes, confirmed by test to be greater than the legal limit (the legal limit in

Colorado is 0.05 grams of ETOH per 100 ml of blood)

YT = Yes, confirmed by test to be trace amounts or less than the legal limit but

not zero

N= No. No evidence in the medical record, prehospital trip sheet or by verbal report that the patient used alcohol at the time of the injury (Not suspected)

NT= No (Confirmed by test)

NA= Not applicable

UNK= Unknown or not documented

Notes: Blood alcohol concentration (BAC) may be documented at any facility, unit, or

setting treating this patient event.

Related Blood Alcohol Content; Breathalyzer Results

Variables:

Data Type: Text Format: Length 3

Breathalyzer Results (ETOHBR)

Definition: Blood alcohol content estimated by measuring the alcohol content of the breath.

This is done using a "Breathalyzer" or similar device.

Values: 0 to 1000, for cases where a Breathalyzer test was performed

NA = Not Applicable

UNK = Unknown or not documented

Do not enter decimal points in this field.

Alcohol Evident, Blood Alcohol Content

Related Variables:

Alcohol Evident, Blood Alcohol Content

Notes: See notes under "Blood Alcohol Content"

Data Type: Number **Format:** Length 5

Blood Alcohol Content (ETOH)

Definition: Blood Alcohol Content as measured in a blood test.

Values: 0 to 1000, for cases where BAC was measured.

NA = Not applicable

UNK = Unknown or not documented
Do not enter decimal points in this field.

Related

Alcohol Evident; Breathalyzer Results

Variables:

Examples: 80 = 0.08 grams of ETOH per 100 ml blood. It is illegal to operate a motor vehicle

in Colorado at this level or above.

50 = 0.05 grams of ETOH per 100 ml blood. Drivers with a BAC between this level

and 0.08 are "Driving while Alcohol-Impaired".

References: The National Highway Traffic Safety Administration (NHTSA) does research on

alcohol and safety, especially with regard to driving. An index of their journal articles is available at: http://www.nhtsa.dot.gov/ (click on the tab that says "Driving"

Safety").

Information is also provided on training physicians to detect and counsel their

patients who drink heavily (see

http://www.nhtsa.dot.gov/people/injury/alcohol/impaired driving/content.html).

Notes: Alcohol concentration is defined in terms of the weight of ethanol (ethyl alcohol) in

a volume of blood or breath. In the United States the typical measure is grams of ethanol in 100 milliliters of blood or in 210 liters of breath and is reported as, for example, 0.10 percent or just "point 1-0". In Colorado, 0.05 is the legal limit for "Driving while Alcohol-Impaired" (DWAI), and 0.08 is the limit for "Driving Under the Influence" (DUI). In our database, this figure is multiplied by 1000, so that 0.10

becomes 100.

Data Type: Number Format: Length 5

Tox Screen Values (TOX)

Definition: Positive results from a toxicology screen.

Values: AMPHET = Amphetamines

CANN = Cannabis, THC

COC = Cocaine
OPIATES = Opiates
OTHER = Other

This variable will NO LONGER BE

INCLUDED in the Colorado Trauma Registry

beginning in 2011.

MULT = Positive for more than one drug

NEG = Results were negative NOTDONE = Tox screen not done

NA = Not applicable NOT = Not documented

UNK = Unknown

Notes: "Positive" is not a valid response. If the screen is positive, indicate one of the

categories listed above.

This variable is used for two main purposes: 1) to identify patient factors that might have influenced the occurrence of the event (and therefore, might be reasonable to address for prevention purposes) and 2) to identify drugs that might influence the vital signs (and their interpretation). For this variable, only indicate whether or not the tox screen is positive. You do not need to identify the timing of when the drug was introduced (i.e., if the drug was "on board" before or after the injury event

occurred).

Data Type: Text Format: Length 15

Drug Use Indicator (TOX_TEST)

Definition: Use of drugs by the patient.

Values: N = No (not suspected, not tested)

NC = No (confirmed by test)

YP = Yes (confirmed by test [prescription drug])
YD = Yes (confirmed by test [illegal use drug])

NA = Not applicable

UNK = Unknown or not documented

Notes: This variable refers to drug use by the patient and does not include medical

treatment.

"Illegal use drug" also includes illegal use of prescription drugs.

Patient's Outcome (OUTCOME)

Definition: Patient's outcome.

Values: A = Discharged alive

D = Died (DOA, in the ED, or as an inpatient)

NA = Not applicable

UNK = Unknown or not documented

Related Disposition from the ED (ER_Disp) **Variables:** Inpatient Disposition (InPtDisp)

Examples: If Outcome = "D", then either ER Disp = "D" or InPtDisp = "D" (but not both). If the

patient is discharged alive from the acute care facility, the value here should be "A", even if the patient later dies in a step-down, SNF, or rehab unit attached to the

hospital.

Data Type: Text Format: Length 3

Transfer-In Status (HOSPITAL_TRANSFER)

Definition: Was this patient transferred to your facility from another acute care facility?

Values: Y =Yes

N =No

NA = Not applicable

UNK = Unknown or not documented

Related Transfer Mode, Referring Hospital; Time/Date of Arrival at the Referring

Variables: Facility; Time/Date of Discharge from the Referring Facility; Referring Facility

Admission Type; Trauma Surgeon Consultation; Time/Date of Consultation with

the Trauma Surgeon

Notes: Facilities that provide emergency care services or are used to stabilize a patient

are considered acute care facilities.

In accordance with the National Trauma Data Standard, a patient who is

transferred from a private doctor's office or stand-alone ambulatory surgery center

is not considered to be an interfacility transfer.

In Colorado, patients who come from urgent care clinics are not considered to be

interfacility transfers.

Unlike the NTDS, which defines interfacility transfers as only including patients transported by EMS, in Colorado, interfacility transfers can involve transport either

by EMS or by private vehicle.

Prior to 2008, this variable was imputed based on whether there were values for any of the related variables listed above.

Data Type: Text Format: Length 3

Trauma Center Arrival Date (HOSPITAL_ARRIVAL_DATE)

Definition: The date the patient arrived at the ED or receiving unit of the Trauma Center of

Record. Every patient should have a value for this field.

Related Trauma Center Arrival Time

Variables:

Examples: 07/15/2006

Notes: Allows computation of time intervals.

Used to compute hospital or ER length of stay.

Data Type: Date **Format**: mm/dd/yyyy

Trauma Center Arrival Time (HOSPITAL_ARRIVAL_TIME)

Definition: The time of arrival in the ED or receiving unit of the Trauma Center of Record.

Every patient should have a value for this field.

Values: 00:01 (midnight) through 23:59
Related Trauma Center Arrival Date

Variables:

Notes: Allows computation of time intervals.

Used to compute hospital or ER length of stay.

Data Type: Time **Format:** hh:mm

Trauma Team Activation (TEAM_NOTIFIED)

Definition: The type of Trauma Team activation that occurred at the Trauma Center of

Record.

Values: F = Full team activation

P = Partial team activation
N = No team activation

NA = Not applicable (use for direct admits)

UNK = Unknown or not documented

Related Triage Codes Variables: E-Codes

Notes: This variable should reflect what actually happened, not whether or not the action

was justified.

If no activation was called, enter "N", whether or not an activation should

have been called.

Choices for "Full" and "Partial" team activation are provided for those facilities that have tiered activation criteria. Use "Full" or "Partial" as applicable to the definitions

used at your facility.

Use "NA" for direct admits.

ED Disposition (ED_DISPOSITION_CODE)

Definition: Where did the patient go after leaving the ED?

Values: For analysis purposes, patients with the following ED disposition values are

considered to be an INPATIENT

ADMIT = Patient was admitted, but the exact location/service is unknown

DIRECT = Patient did not come through the ED; but was admitted directly to the

hospital

FLOOR = Patient was sent to a floor (general admission, non-specialty unit bed)

ICU = Patient went to the Intensive Care Unit

OBS = Patient was admitted for observation (a unit that provides <24 hour

stays)

OR = Patient was taken to the operating room

TELE= Telemetry/step-down unit (less acuity than ICU)

For analysis purposes, patients with the following ED disposition values are NOT considered to be an INPATIENT:

AMA = Patient left the ED against medical advice

D = Patient deceased/expired in the ED (prior to admission to the hospital)

DSS= Patient was discharged to the Department of Social Services

HH = Home with services

HOME = Home without services

JAIL = Patient was discharged from the ED to jail

TRANS = Patient was transferred directly from the ED to another facility

OTHER = Discharged to other location (e.g., institutional care, mental health)

NA = Not applicable

UNK = Unknown or not documented

Related Outcome

Variables: Arrival at Trauma Center Date & Time

Hospital Admit Date & Time

Discharge Date & Time

Examples: If Outcome = "D" and the death occurred before the patient was admitted as an

inpatient, then ED disposition must be "D" (died in the ED) and Inpatient

Disposition Code (DC_DISPOSITION_CODE) must be "NA". If Inpatient Disposition = "D", then ED disposition must not be "D".

The values "OR", "ICU", "TELE", "FLOOR", "DIRECT", "OBS" and "ADMIT" are all

considered admissions to the hospital, and the record should have a valid

Inpatient Disposition Code (DC DISPOSITION CODE) and Hospital Admit Date &

Time.

If the ED disposition is "D", "TRANS", "AMA", "HOME", "HH", "JAIL", "DSS", "OTHER", "NA", or "UNK", the patient was not admitted as an inpatient, so the Inpatient Disposition Code (DC_DISPOSITION_CODE) should be "NA". If the Inpatient Disposition Code indicates that the patient was discharged after admission, ED disposition must be "OR", "ICU", "TELE", "FLOOR", "DIRECT", "OBS" or "ADMIT".

Notes: This variable is very important in tracking the patient's progress through the

system. It should be consistent with the Inpatient Disposition Code and the

Outcome.

For more information on assigning ED disposition, see Appendix IV. This field will also be used to answer the NTDS field for ED OUTCOME.

Data Type: Text Format: Length 10

Signs of Life (ARRIVAL_CONDITION)

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

Values: N = Arrived with NO signs of life

Y = Arrived with signs of life
UNK = Unknown or not documented

Related ED disposition

Variables: Outcome

Notes: This field is only relevant for patients who died in the ED. For patients who died in

the ED, an indication about "signs of life" on arrival to the ED (N, Y or UNK) should

be provided.

A patient with no signs of life is defined as having none of the following: organized EKG activity; pupillary responses; spontaneous respiratory attempts or movement; and unassisted blood pressure. This usually implies that the patient was brought to

the ED with CPR in progress.

Data Type: Text Format: Length 3

ED Length of Stay (ER_TIME)

Definition: The time in minutes from arrival to the ED to discharge from the ED

Values: This value is calculated by Traumabase

NA= Not applicable (patient was a direct admit)

UNK= Unknown or not documented

Related

ED arrival date/time, ED discharge date/time

Variables:

Hospital Admission Date (HOSPITAL_ADMISSION_DATE)

Definition: Date when the patient was admitted to the hospital as an inpatient. Any person

who was admitted to the hospital as an inpatient MUST have a value in this field.

Values: Dates prior to 1/1/1997 are invalid.

If the patient was not admitted to the hospital, this field should be left blank.

Related Hospital Admission Time, ER Disposition, Inpatient Disposition

Variables:

Examples: 04/05/2007

Notes: This variable allows computation of time intervals including Length of Hospital

Stay.

Data Type: Date **Format:** mm/dd/yyyy

Hospital Admission Time (HOSPITAL_ADMISSION_TIME)

Definition: Time when the patient was admitted to the hospital.

Values: 00:01 (midnight) through 23:59

If the patient was not admitted to the hospital, this field should be left blank.

Related Hospital Admission Date, ER Disposition, Inpatient Disposition

Variables:

Notes: This variable allows computation of time intervals including Length of Hospital

Stay.

Data Type: Time Format: hh:mm

Hospital Departure Date (DISCHARGE_DATE)

Definition: Date when the patient was discharged from the hospital or the ED. If the patient

was not admitted to the hospital, then this is the date of discharge from the ED. If the patient died in the ED, then this is the date of death. **Values:** Dates prior to

1/1/1997 are invalid.

Related Hospital Discharge Time

Variables:

Examples: 10/21/2005

Allows computation of time intervals.

Used to compute hospital or ER length of stay

Hospital discharge date - hospital admission date cannot be > 365 days

Data Type: Date Format: mm/dd/yyyy

Hospital Departure Time (DISCHARGE_TIME)

Definition: Time when the patient was discharged from the hospital or the ED. If the patient

was not admitted to the hospital, then this is the time of discharge from the ED. If

the patient died in the ED, then this is the time of death.

Values: 00:01 (midnight) through 23:59

Related Hospital Discharge Date, Hospital Admission Date & Time

Variables: Notes:

Allows computation of time intervals.

Used to compute hospital or ER length of stay.

Data Type: Time **Format:** hh:mm

Admitting Service (ADM_SVC)

Definition: Primary hospital service responsible for the patient's care after admission.

Values: TRAUMA=Trauma Service

ORTHO= Orthopedics
BURN= Burn Unit
NEURO= Neurosurgery

OBGYN= Obstetrics/Gynecology
OMFS= Oral-maxillo; dental; ENT

OPHTH= Ophthalmology
PEDS= Pediatrics
PLAST= Plastic surgery

UROL= Urology

OTHER= Other surgical service (e.g., hand surgery)

NON= Non-surgical services, such as internal medicine

NA= Not applicable (the patient wasn't admitted)
UNK= Unknown or not documented
Toxt

Format: Longth 10

ICU Days (TOTAL_DAYS_ICU_)

Definition: Number of 24-hour periods the patient spent in the ICU.

Values: Min = 0

Max = 400

Notes: This value is calculated by TraumaBase. If the patient was not in the ICU, this

variable will remain blank. This variable is recorded in full day increments with any partial day listed as a full day. If a patient is admitted and discharged on the same

date, the LOS is one day.

Data Type: Number Format: Length 3

Total Ventilator Days (VENTDAYS)

Definition: The total number of patient days spent on a mechanical ventilator (including all

episodes, but excluding time in the OR)

Values: Min = 0

Max = 400

Notes: Recorded in full day increments with any partial day listed as a full day. If a patient

begins and ends mechanical ventilation on the same date, the total ventilator days is one day. Non-invasive means of ventilatory support (CPAP or BIPAP) should

not be considered in the calculation of ventilator days.

Data Type: Number Format: Length 3

Hospital Discharge Disposition (DC_DISPOSITION_CODE)

Definition: Where did the patient go after being discharged from trauma? (Applies only to

patients admitted to the hospital; does not apply to ED-only patients)

Values: ACUTE = Discharged/transferred to another acute care hospital (NTDS1)

AMA = Patient left the hospital against medical advice (NTDS4)

D = Patient deceased/expired after hospital admission (NOT in ED) (NTDS5)

DSS = Discharged to the Department of Social Services (NTDS14)

HH = Discharged to home under care of a Home Health Agency (any outside agency that provides services after discharge, such as visiting nurse services)

(NTDS3)

HOME= Discharged to home/any residence with no home health services

(NTDS6)

HOSPICE = Discharged/transferred to hospice care (NTDS8)

ICF = Discharged/transferred to an Intermediate Care Facility (NTDS2)

JAIL = Discharged to law enforcement (NTDS10)

LTAC = Discharged/transferred from trauma to a long-term acute care

(LTAC) facility or a unit of the initial hospital for inpatient care including disposition

or placement, not trauma or rehab service. (Modified 2014) (NTDS12)

NHOME = Patient discharged to a nursing home or other long- term residential

care facility (NTDS12)

PSYCH = Discharged to inpatient psychiatric care. This may be another facility or a division of the same facility (NTDS13)

REHAB = Discharged/transferred to an inpatient rehab facility (NTDS11)

SNF = Discharged/transferred to a Skilled Nursing Facility (NTDS7)

OTHER = Other (NTDS14)

NA = Not applicable (patient was never admitted as an inpatient; patient was an ED-only patient)

UNK = Unknown or not documented

Variables: Emergency Department Disposition

Arrival at Trauma Center Date & Time, Admit Date & Time, Discharge Date &

Time

Examples: If Outcome = "D" and patient died after hospital admission value should be "D".

If the ED Disposition indicates that the patient was not admitted, this value should

be "NA".

If a patient resided in a nursing home and returned to the nursing home after admission, the hospital discharge disposition should be NHOME, not HOME. If the patient came from a SNF and returned to the SNF after admission, the

hospital discharge disposition should be SNF, not HOME.

If the patient is discharged to a SNF for rehab, the hospital discharge disposition

should be SNF, not REHAB. Code the location type, not what happens there.

Notes: This variable is very important in tracking the patient's progress through the

system. It should be consistent with the ED_Disposition.

Data Type: Text Format: Length 10

Patient's Destination Facility (DC_Destination_Code)

Definition: For patients who were transferred (from the ED or after inpatient status), this

variable is the Facility ID code for the acute care facility the patient was transferred

to.

Values: A list of facilities and codes is found in Appendix I.

NA = Not applicable (patient wasn't transferred from the ED or after inpatient

status)

UNK = Unknown or not documented

Notes: Required only if the patient was transferred to another acute care facility.

DataType: Number Format: Length 6

Autopsy (AUTOPSY)

Definition: Was an autopsy done?

Values: YY = Yes, and the results are reflected in the diagnoses

YN = Yes, but the results are not reflected in the diagnoses

N = No

NA = Not applicable (the patient didn't die)
UNK = Unknown or not documented

Related ICD-9 Codes

Variables: Description of Diagnosis

Data Type: Text Format: Length 5

ICD-9-CM Code (ICD9)

Definition: A diagnosis code from the ICD-9-CM coding system

Values: Values are 3 to 5 digit codes. There may be a decimal point and up to two digits

after the decimal point. Valid codes for trauma are in the 800-999 range, as per

the Inclusion/Exclusion criteria (see Section A).

NA = Not applicable

UNK = Unknown or not documented

Related Diagnosis Description **Variables:** AIS Severity Level

AIS Body Region of Injury

Examples: 920 = Contusion of face, neck, or scalp, except eyes

850.1 = Concussion; with brief loss of consciousness

820.21 = Fracture of neck of femur; closed pertrochanteric; intertrochanteric

section

References: International Classification of Diseases, 9th Revision, Clinical Modification (ICD9-

CM)

Notes: The null value "Not applicable" is used if not coding ICD-9.

Cases should have at least one trauma-related ICD-9 code (as listed in the Inclusion/Exclusion criteria). The only exceptions are for: (1) patients who had your facility's highest level of trauma team activation, but were subsequently found to have no injuries or (2) readmissions, for which the reason for the readmission was a complication or failure of conservative management.

If you include diagnoses that were made at a facility other than your facility, please indicate "where" the diagnosis was made using the "Diagnosis_Location" variable. Diagnoses made at another facility should only be included IF there is radiologic or operative confirmation of injuries and appropriate documentation from the other facility is available. Based on the diagnosis and the "diagnosis location" information, two ISS values will be calculated by the TraumaBase software: 1) an ISS based solely on the diagnoses made at your facility and 2) an ISS based on all

diagnoses known (made at your facility or any other facility).

For more information on assigning ICD-9 codes, see Appendix V.

For the National Trauma Data Standard, these codes are used to auto-generate 8

calculated fields: AIS (6 body regions) and ISS.

Data Type: Text Format: Length 6

ICD-10 Injury Diagnoses (ICD10)

Definition: Diagnoses related to all identified injuries

Values: Injury diagnoses as defined by ICD-10-CM code range S00-S99, T07, T14, T20-28

and T30-T32

Notes: The null value "Not applicable" is used if not coding ICD-10.

Cases should have at least one trauma-related ICD-10 code (as listed in the Inclusion/Exclusion criteria). The only exceptions are for: (1) patients who had your facility's highest level of trauma team activation, but were subsequently found to have no injuries or (2) readmissions, for which the reason for the readmission was a complication or failure of conservative management.

If you include diagnoses that were made at a facility other than your facility, please indicate "where" the diagnosis was made using the "Diagnosis_Location" variable. Diagnoses made at another facility should only be included IF there is radiologic or operative confirmation of injuries and appropriate documentation from the other facility is available. Based on the diagnosis and the "diagnosis location" information, two ISS values will be calculated by the TraumaBase software: 1) an ISS based solely on the diagnoses made at your facility and 2) an ISS based on all diagnoses known (made at your facility or any other facility).

The maximum number of diagnoses that may be reported for an individual patient is 50.

ICD-10-CM codes pertaining to other medical conditions (e.g., CVA, MI, comorbidities, etc.) may also be included in this field.

Used to auto-generate additional calculated fields: Abbreviated Injury Scale (six body regions) and Injury Severity Score.

Field cannot be blank, must either (1) contain a valid ICD-10 code or (2) be Not Applicable if not coding ICD-10.

If coding with ICD-10, then at least one diagnosis must be provided and meet inclusion criteria.

Field should not be Not Known/Not Recorded

Data Source Hierarchy: 1. Autopsy/Medical Examiner Report

Operative Reports
 Radiology Reports
 Physician's Notes
 Trauma Flow Sheet
 History and Physical

7. Nursing Notes/ Flow Sheet

8. Progress Notes9. Discharge Summary

Data Type: Text Format: Length 6

Source of Diagnostic Information (DX_KNOWN)

Definition: Where did the information regarding this diagnosis come from?

Values: A = Autopsy

CT = CT Scan

E = Physical Examination

H = History
MRI = MRI
S = Surgery
US = Ultrasound

X = Xray

NA = Not applicable

UNK = Unknown or not documented

Related ICD-9 Codes

Variables: Description of Diagnosis

Data Type: Text Format: Length 5

Location where Diagnosis was Determined (DIAGNOSIS_LOCATION)

Definition: Where was this diagnosis made?

Values: HERE = Your facility

OTHER = Other facility

Related ICD-9 Codes

Variables: Description of Diagnosis

AIS Code (AIS_CODE)

Definition: An injury description code from the Abbreviated Injury Scale coding system.

Values: Values are 6 digits, a decimal point and a severity value.

NA = Not applicable

UNK = Unknown or not documented

Related Diagnosis Description
Variables: AIS Severity Level

AIS Body Region of Injury

ICD9/ICD10

References: The Abbreviated Injury Scale, 1990 Revision, Update 1998. The Association for

the Advancement of Automotive Medicine. 2340 Des Plaines River Road. Suite

106. Des Plaines, IL 60018.

The Abbreviated Injury Scale, 2005 Revision, Update 2008. The Association for

the Advancement of Automotive Medicine.

Notes: TraumaBase will download up to 15 diagnosis codes to the state registry.

Data Type: Text Format: Length 8

Diagnosis Description (DIAGNOSES)

Definition: A written description of the diagnosis that supports the assigned ICD-9/ICD-10

code and/or AIS code.

Values: Written description

NA = Not applicable

UNK = Unknown or not documented

Related ICD9/ICD10 codes **Variables:** AIS Severity Level

AIS Body Region of Injury

Examples: Fx, Acetabulum, Closed RIGHT

FX R RIBS 2-9 CLOSED

Notes: If you use the default diagnosis provided by TraumaBase, please provide

additional information to justify the assignment of a particular ICD-9 code or AIS

score.

Data Type: Memo **Format:** Any Length

AIS Score (AIS)

Definition: Severity level from the Abbreviated Injury Scale.

Values: 1 through 6 = Increasing severity

9 = Severity undetermined NA = Not applicable

UNK = Unknown or not documented

Related AIS Body Region of Injury

Variables: ICD9/ICD10 Codes

References: The Abbreviated Injury Scale, 2005 Revision, Update 2008. The Association for

the Advancement of Automotive Medicine, 2340 Des Plaines River Road, Suite

106. Des Plaines, IL 60018.

Notes: An AIS score of 6 is used only for very specific injuries. The use of AIS 6 is not

implied simply because the patient died. Only the following injuries are assigned

an AIS of 6:

Massive destruction (crush injury) of both cranium (skull) and brain

Laceration of the brainstem

Massive destruction (crush injury) of the brainstem

Penetrating injury to the brainstem

Decapitation

 Crush injury of the chest resulting in bilateral obliteration by external forces of a substantial portion of the chest cavity including internal organs

 Major laceration of the thoracic aorta with hemorrhage not confined to the mediastinum

Laceration to the heart resulting in complex or ventricular rupture

Multiple lacerations to the heart

Hepatic avulsion (total separation of all vascular attachments of the liver)

• Injury to the spinal cord (contusion or laceration) resulting in complete cord syndrome (quadriplegia or paraplegia with no sensation) at C-3 or above, with or without fracture or dislocation of the spine

• Second or third degree burn to >90% total body surface area (incineration)

High voltage electrical injury with cardiac arrest

For more information on assigning AIS, see Appendix VI.

Body Region of Injury (REGION)

Definition: The AIS anatomical region of injury.

Values: ABD = Abdomen or pelvic contents

ARM = Arm CHEST = Chest

CS = Cervical Spine

EXT = External, burns or other trauma

FACE = Face HEAD = Head LEG = Leg

LS = Lumbar Spine

NECK = Neck

TS = Thoracic Spine NA = Not applicable

UNK = Unknown or not documented

Related AIS, ISS

Variables: ICD9/ICD10 codes

Examples: Pelvic fractures (fractures to the acetabulum, ilium, ischium, coccyx, sacrum or

pubic ramus) should be coded to Lower Extremity (LEG).

Pelvic contents (injuries to anus, bladder, ovary, perineum, penis, scrotum, testes,

urethra, uterus, vagina, and vulva) should be coded to ABD.

Injuries to the diaphragm should be coded to CHEST.

Retroperitoneal injuries or hematoma should be coded to ABD.

Inhalation injuries should be coded to EXT. Electrical injuries should be coded to EXT. Hypothermia should be coded to EXT.

References: The Abbreviated Injury Scale, 2005 Revision, Update 2008. The Association for

the Advancement of Automotive Medicine, 2340 Des Plaines River Road, Suite

106. Des Plaines, IL 60018.

Notes: The 11 AIS body regions can be converted to the 6 ISS body regions:

1. Head/Neck: Includes AIS regions of HEAD, NECK and CS

2. Face: Includes AIS region of FACE

3. Chest: Includes AIS region of CHEST (Thorax) and TS

4. Abdomen or Pelvic contents: Includes AIS regions of ABD and LS

5. Extremities or Pelvic girdle: Includes AIS regions of Upper Extremity

(ARM) and Lower Extremity (LEG)

6. External: Includes all superficial injuries and external burns, lacerations,

contusions and abrasions, independent of their location on the body surface

AIS Version (SEVERITY_METHOD)

Definition: Version of the Abbreviated Injury Scale used for AIS assignment.

Values: 05 = AIS 2005

08 = Update 2008 NA = Not applicable

UNK = Unknown or not documented

Related AIS Code (full code)
Variables: AIS Severity value

Body Region

References: The Abbreviated Injury Scale, 2005 Revision, Update 2008. The Association for

the Advancement of Automotive Medicine, 2340 Des Plaines River Road, Suite

106. Des Plaines, IL 60018.

Notes: For more information on assigning AIS, see Appendix VI.

Data Type: Number Format: Length 3

Injury Severity Score (ISS)

Definition: Injury Severity Score.

Values: Range: 1 to 75.

99 = Not applicable, not calculable

Related AIS Severity Level

Variables: AIS Body Region of Injury

References: The Abbreviated Injury Scale, 2005 Revision, 2008 Update. The Association for

the Advancement of Automotive Medicine, 2340 Des Plaines River Road, Suite

106. Des Plaines, IL 60018.

Notes: For users of TraumaBase software, this value is calculated by the software.

Data Type: Number Format: Length 2

Co-morbid Conditions (RISK_TYPE)

Definition: Disease processes or conditions that existed in the patient PRIOR TO INJURY

that could affect patient survivability and functional outcome

Values: ABUSE = Drug use disorder (NTDS28)

ADD = Attention Deficit disorder/attention deficit hyperactivity disorder

(ADD/ADHD) NTDS30

ANGINA = History of angina within 30 days (NTDS16)

ANOM = Congenital anomalies (NTDS6) CA = Disseminated cancer (NTDS12)

CHEMO = Currently receiving chemotherapy for cancer (NTDS5)

CHF = Congestive heart failure (NTDS7)

CIRRH = Cirrhosis (NTDS25)

COAG = Bleeding disorder or on anticoagulants (NTDS4)

CVA = Cerebrovascular accident (NTDS10) DEM = Dementia (NEW, 2014; NTDS26)

DEP = Functionally dependent health status (NTDS15)

DIAL = Chronic renal failure (NTDS9)
DM = Diabetes mellitus (NTDS11)

DNR = Do not resuscitate (DNR) or similar advanced directive recorded

prior to injury (NTDS13)

ETOH = Alcohol use disorder (NTDS2)

HTN = Hypertension requiring medication (NTDS19)

MI = History of myocardial infarction within past 6 months (NTDS17)

PREM = Prematurity (NTDS21)

PSY = Major psychiatric illness (NEW, 2014; NTDS27)

RAP = History of PVD (NTDS18)

RESP = Chronic Obstructive Pulmonary Disease (COPD; NTDS23)

SMOKER = Current smoker (NTDS8)

STEROID = Steroid use, oral or parenteral, in the 30 days prior to injury for a

chronic medical condition. Does not include steroids

received topically or by inhalation (NTDS24)

OTHER = Other (a co-morbidity not mentioned above) (NTDS1)

NA = For patients with no known co-morbid conditions (NTDS Null/NA)

Notes:

For any co-morbid condition to be valid there must be a diagnosis noted in the patient medical record that meets the definition noted in the Glossary of Terms, below.

The presence of co-morbidities is used for risk-adjustment in outcome analysis.

Definitions for all of these co-morbidities can be found in the 2014 National Trauma Data Standard data dictionary in Appendix 3: Glossary of Terms at http://www.ntdsdictionary.org/documents/2014NTDSDataDictionary.pdf) and are also provided below, in the Glossary of Terms.

Glossary of Terms:

ABUSE = Drug or dependence (NTDS 28): With particular attention to opioid, sedative, amphetamine, cocaine, diazepam, alprazolam, or lorazepam dependence (excludes ADD/ADHD or chronic pain with medication use as prescribed.)

(Consistent with APA DSM 5): Diagnosis of drug use disorder documented in the patient medical record.

- ADD = History of a disorder involving inattention, hyperactivity or impulsivity requiring medication for treatment.
- ANGINA = History of angina within 30 days (NTDS 16): Pain or discomfort between the diaphragm and the mandible resulting from myocardial ischemia. Typically angina is a dull, diffuse (fist sized or larger) sub sternal chest discomfort precipitated by exertion or emotion and relieved by rest or nitroglycerine. Radiation often occurs to the arms and shoulders and occasionally to the neck, jaw (mandible, not maxilla), or interscapular region. For patients on anti-angina medications, enter yes only if the patient has had angina within one month prior to admission.
- ANOM = Congenital anomalies (NTDS 6): Documentation of a cardiac, pulmonary, body wall, CNS/spinal, GI, renal, orthopaedic, or metabolic congenital anomaly.
- CA = Disseminated cancer (NTDS 12): Patients who have cancer that has spread to one site or more sites in addition to the primary site, AND in whom the presence of multiple metastases indicates the cancer is widespread, fulminant, or near terminal. Other terms describing disseminated cancer include: "diffuse," "widely metastatic," "widespread," or "carcinomatosis." Common sites of metastases include major organs, (e.g., brain, lung, liver, meninges, abdomen, peritoneum, pleura, and bone.)
- CHEMO = Currently receiving chemotherapy for cancer (NTDS 5): A patient who is currently receiving any chemotherapy treatment for cancer prior to admission. Chemotherapy may include, but is not restricted to, oral and parenteral treatment with chemotherapeutic agents for malignancies such as colon, breast, lung, head and neck, and gastrointestinal solid tumors as well as lymphatic and hematopoietic malignancies such as lymphoma, leukemia, and multiple myeloma.
- CHF = Congestive heart failure (NTDS 7): The inability of the heart to pump a sufficient quantity of blood to meet the metabolic needs of the body or can do so only at an increased ventricular filling pressure. To be included, this condition must be noted in the medical record as CHF, congestive heart failure, or pulmonary edema with onset of increasing symptoms within 30 days prior to injury. Common manifestations are:
 - Abnormal limitation in exercise tolerance due to dyspnea or fatique
 - Orthopnea (dyspnea on lying supine)
 - Paroxysmal nocturnal dyspnea (awakening from sleep with dyspnea)
 - Increased jugular venous pressure
 - Pulmonary rales on physical examination
 - Cardiomegaly
 - Pulmonary vascular engorgement
- CIRRH = Cirrhosis (NTDS 25): Documentation in the medical record of cirrhosis, which might also be referred to as end stage liver disease. If there is documentation of prior or present esophageal or gastric varices, portal hypertension, previous

hepatic encephalopathy, or ascites with notation of liver disease, then cirrhosis should be considered present. Cirrhosis should also be considered present if documented by diagnostic imaging studies or a laparotomy/laparoscopy.

- COAG = Bleeding disorder or on anticoagulants (NTDS 4): Any condition that places the patient at risk for excessive bleeding due to a deficiency of blood clotting elements (e.g., vitamin K deficiency, hemophilia, thrombocytopenia, chronic anticoagulation therapy with Coumadin, Plavix, or similar medications.) Do not include patients on chronic aspirin therapy.
- CVA = CVA/residual neurological deficit (NTDS 10): 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.)
- DEM = Dementia (NTDS 26): With particular attention to senile or vascular dementia (e.g., Alzheimer's.) Documentation in the patient's medical record of dementia including senile or vascular dementia (e.g., Alzheimer's.)
- DEP= Pre-injury functional status may be represented by the ability of the patient to complete activities of daily living (ADL) including: bathing, feeding, dressing, toileting, and walking. This item is marked YES if the patient, prior to injury, was partially dependent or completely dependent upon equipment, devices or another person to complete some or all activities of daily living. Formal definitions of dependency are listed below:

Partially dependent: The patient requires the use of equipment or devices coupled with assistance from another person for some activities of daily living. Any patient coming from a nursing home setting who is not totally dependent would fall into this category, as would any patient who requires kidney dialysis or home ventilator support that requires chronic oxygen therapy yet maintains some independent functions.

Totally dependent: The patient cannot perform any activities of daily living for himself/herself. This would include a patient who is totally dependent upon nursing care, or a dependent nursing home patient. All patients with psychiatric illness should be evaluated for their ability to function with or without assistance with ADLs just as the non-psychiatric patient.

- DIAL = Acute or chronic renal failure prior to injury that was requiring periodic peritoneal dialysis, hemodialysis, hemofiltration, or hemodiafiltration.
- DM = Diabetes mellitus prior to injury that required exogenous parenteral insulin or an oral hypoglycemic agent.
- DNR = The patient had a Do Not Resuscitate (DNR) document or similar advanced directive recorded prior to injury.
- ETOH = Evidence of chronic use, such as withdrawal episodes. Exclude isolated elevated

blood alcohol level in absence of history of abuse. (Consistent with APA DSM 5): Diagnosis of alcohol use disorder documented in the patient medical record.

- HTN = History of a persistent elevation of systolic blood pressure >140mm Hg and a diastolic blood pressure >90mm Hg requiring an antihypertensive treatment (e.g., diuretics, beta blockers, angiotensin-converting enzyme (ACE) inhibitors, calcium channel blockers.)
- MI = The history of a non-Q wave, or a Q wave infarction in the six months prior to injury and diagnosed in the patient's medical record.
- PHRES = A sudden, abrupt loss of cardiac function which occurs outside of the hospital, prior to admission at the center in which the registry is maintained, that results in loss of consciousness requiring the initiation of any component of basic and/or advanced cardiac life support by a health care provider.
- PREM = Documentation of premature birth, a history of bronchopulmonary dysplasia, or ventilator support for greater than 7 days after birth. Premature birth is defined as infants delivered before 37 weeks from the first day of the last menstrual period.
- PSY = Documentation of the presence of pre-injury major depressive disorder, bipolar disorder, schizophrenia, anxiety/panic disorder, borderline or antisocial personality disorder, and/or adjustment disorder/post-traumatic stress disorder.
- RAP = Any type of operative (open) or interventional radiology angioplasty or revascularization procedure for atherosclerotic PVD (e.g., aorta-femoral, femoral-femoral, femoral-popliteal, balloon angioplasty, stenting, etc.) Patients who have had amputation from trauma or resection/repair of abdominal aortic aneurysms, including Endovascular Repair of Abdominal Aortic Aneurysm (EVAR,) would not be included.
- RESP = Severe chronic lung disease, chronic obstructive pulmonary disease (COPD) such as emphysema and/or chronic bronchitis resulting in any one of more of the following:
 - Functional disability from COPD (e.g., dyspnea, inability to perform activities of daily living [ADLs].)
 - Hospitalization in the past for treatment of COPD.
 - Requires chronic bronchodialator therapy with oral or inhaled agents.
 - A Forced Expiratory Volume in 1 second (FEV1) of <75% of predicted on pulmonary function testing.
 - Do not include patients whose only pulmonary disease is acute asthma. Do not include patients with diffuse interstitial fibrosis or sarcoidosis.
- SMOKER = A patient who reports smoking cigarettes every day or some days. Excludes patients who smoke cigars or pipes or use smokeless tobacco (chewing tobacco or snuff.)
- STEROID = Patients that required the regular administration of oral or parenteral corticosteroid medications (e.g., prednisone, dexamethasone in the 30 days prior to injury for a chronic medical condition (e.g., COPD, asthma, rheumatologic disease,

rheumatoid arthritis, inflammatory bowel disease.) Do not include topical corticosteroids applied to the skin or corticosteroids administered by inhalation or rectally.

VAR =

Esophageal varices are engorged collateral veins in the esophagus which bypass a scarred liver to carry portal blood to the superior vena cava. A sustained increase in portal pressure results in esophageal varices which are most frequently demonstrated by direct visualization at esophagoscopy.

References: "The Effect of Preexisting Conditions on Mortality in Trauma Patients", JA Morris et al. JAMA 263: 1942-1946. 1990.

Data Type: Text Format: Length 10

Triage Codes (TRIAGE_CODES)

Definition: The triage criteria USED BY THE PREHOSPITAL CARE PROVIDER to decide

where (which facility) the patient should be taken.

Values: NONE = No triage criteria met

AMPUT = Amputation or near amputation above the wrist or ankle. Amputations of the finger do not meet these criteria.

BLAST = High energy dissipation from explosion, high pressure, etc.

BLUNT = Significant blunt trauma. Defined as blunt trauma with physiologic compromise as evidenced by Systolic BP <90 or Pulse >120 or respiratory rate <10 or >29 or requiring endotracheal intubation. For children under age 15, physiologic compromise is evidenced by BP < lower limits for age or tachycardia for age and signs of poor perfusion (capillary refill time >2 seconds, cool extremities, decreased pulses, altered mental status, poor color or respiratory compromise).

BURNS = > 20% total body surface area burn or burns involving the face, airway, hands, feet or genitalia (CO)

BURN = Burns

BURNT= Burns with trauma

CHEST = Flail chest. This code is NOT for all chest injuries, only for flail chest. If this triage code is selected, one of the diagnoses should be flail chest (807.4)

COAG= Patient on anticoagulants, bleeding disorders

CRASH = High energy transfer situations such as an MVA with significant vehicle body damage (e.g., bent steering wheel, structural damage) or any motorcycle, ATV or bicycle crash. Also includes a skier hitting a tree.

DEATH = Death of an occupant in the same car

EJECT = Crash ejection (partial or complete) from automobile

ELEC = High energy electrical injury

EXTREM = Crushed, degloved or mangled extremity

EXTRIC = Prolonged extrication time (>20 minutes)

FALL = A fall from a height > 20 feet or for pediatric patients from a level more

than or equal to twice the height of the child. Falls from the same level, from furniture, from a horse/bike etc. do not meet these criteria.

FX = Fracture of a long bone, in conjunction with an injury to another region. Long bones include femur, tibia/fib, and humerus. An isolated long bone fracture does not meet these criteria. This triage code should only be used when there is a long bone FX in addition to at least one other area of injury (CHEST, HEAD, ABDOMEN, etc). The AIS of the injuries to the other areas should be 2 or greater.

FX2 = Two or more proximal long bone fractures (humerus and/or femur)

GCS10 = Altered mental status (GCS<10) with significant trauma

GCS10N = Altered mental status (GCS<10) with focal neurologic deficit

GCS 14 = Glasgow Coma Scale <=13

GSBP = for adults >65; systolic blood pressure <110

JUDGE = EMS provider judgment

MULT = Multisystem blunt injury. Injuries were sustained in 2 or more of the 6 AIS body regions. The injuries must have a severity of AIS = 2 or greater. If this triage code is selected, the Trauma Type should be "BLUNT".

PED = Pedestrian hit by vehicle traveling >20 mph or thrown >15 feet

PELV = Pelvic fractures to the acetabulum, ilium, ischium, coccyx, sacrum, or pubic ramus

PELV value was added in 2016

PELVFX = Pelvic fracture, in conjunction with an injury to another region. An isolated pelvic fracture does not meet these criteria. This triage code should only be used when there is a pelvic FX in addition to at least one other area of injury (CHEST, HEAD, ABDOMEN, etc). The AIS of the injuries to the other areas should be 2 or greater.

PEN = Penetrating trauma to the thorax, abdomen or neck. If this triage code is selected, the Trauma Type should be "PENETRATING".

PEN2=Penetrating trauma to the head or extremities above the knee or elbow. If this triage code is selected, the Trauma Type should be "PENETRATING".

PREG20= >20 weeks

SKULL =Open or depressed skull fracture

SPINE = Spinal cord injury with neurologic deficit

Notes:

This variable should only be completed when the patient is transported by EMS to the hospital. If the patient arrived by private vehicle or walked in, this variable should not be completed.

Although these triage codes should reflect the intent of the prehospital care provider, this information is more likely to be noted upon arrival to the ED (information found on the ED encounter form rather than the prehospital trip sheet).

Serial Assessment (VS_NUMBER)

Definition: Codes for the time and place of the serial assessment (Vital Signs and Glasgow

Coma Scale scores)

Values: 1 = First set of VS/GCS at the injury scene

2 = On arrival to your facility (either ED or direct admit)3 = One hour after ED arrival or at discharge from the ED

Notes: Serial assessments include measures of Respiratory Rate, Pulse, Systolic Blood

Pressure, O2 saturation, temperature, and the Glasgow Eye, Motor, and Verbal

Scores.

The three assessment times listed above are standard. If you have vital sign information collected at other times/places (for example, at another hospital prior to transfer to your facility), you can collect that information and assign a value for "Serial Assessment" that is NOT "1", "2", or "3". Only the values for assessments

"1", "2", and "3" will be downloaded to the state registry.

For assessment "3", the vital signs and GCS should be taken as close as possible to one hour after ED arrival, or if the person is discharged from the ED in less than

one hour after arrival, then at the time of discharge from the ED.

Data Type: Text Format: Length 2

Date of the Assessment (VS_DATE)

Definition: The date of the current assessment

Data Type: Date **Format:** mm/dd/yyyy

Time of the Assessment (VS_TIME)

Definition: The military time of the current assessment

Values: 00:01 (midnight) through 23:59

Examples: 00:01 = Midnight

12:00 = Noon 13:00 = 1:00 pm

Data Type: Time Format: hh:mm

Respiratory Rate at Assessment (RESP_RATE)

Definition: Respiratory rate

Values: Min = 0

Max = 120

NA = Not applicable

UNK = Unknown or not documented

Data Type: Text Format: Length 3

Initial ED/Hospital Respiratory Assistance (ASSISTING)

Definition: Determination of respiratory assistance associated with the initial ED/hospital

respiratory rate

Values: N = Unassisted respiratory rate

Y = Assisted respiratory rate

NA = Not applicable

UNK = Unknown or not documented

Notes: Only complete if a value is provided for "Initial ED/Hospital Respiratory Rate." Respiratory assistance is defined as mechanical and/or external support of

respiration.

Data Type: Text Format: Length 5

Pulse Rate at Assessment (PULSE)

Definition: Pulse rate (palpated or auscultated)

Values: Min = 0 Max = 299

NA = Not applicable

UNK = Unknown or not documented

Note: Measurement recorded must be without the assistance of CPR or any type of mechanical chest compression device. For those patients who are receiving CPR or any type of mechanical chest compressions, report the value obtained while compressions are paused.

Systolic Blood Pressure at Assessment (SYS_BP)

Definition: Systolic Blood Pressure

Values: Min = 0Max = 300

NA = Not applicable

UNK = Unknown or not documented

Note: Measurement recorded must be without the assistance of CPR or any type of mechanical chest compression device. For those patients who are receiving CPR or any type of mechanical chest compressions, report the value obtained while compressions are paused.

Data Type: Text Format: Length 3

Oxygen Saturation at Assessment (OXIMETRY)

Definition: Oxygen saturation (expressed as a percentage)

Values: Min = 0

Max = 100

NA = Not applicable

UNK = Unknown or not documented

Notes: For Serial 1 (field vitals), this value should be based upon assessment before

administration of supplemental oxygen.

Data Type: Text Format: Length 3

Supplemental Oxygen (VS_O2)

Definition: Determination of the presence of supplemental oxygen during assessment of the

oxygen saturation level

Values: N = No supplemental oxygen

Y = Supplemental oxygen

NA = Not applicable

UNK = Unknown or not documented

Temperature at Assessment (TEMPS)

Definition: Temperature in degrees Celsius (centigrade)

Values: Min = 0Max = 45

NA = Not applicable

UNK = Unknown or not documented

Data Type: Text Format: Length 3

Glasgow Eye Score at Assessment (EYE_OPENING)

Definition: The eye-opening component of the Glasgow Coma Scale

Values: 1 = Does not open eyes

2 = Opens eyes in response to painful stimulation
 3 = Opens eyes in response to verbal stimulation

4 = Opens eyes spontaneously

NA = Not applicable

UNK = Unknown or not documented

References: See references listed under Glasgow Coma Scale Score.

Notes: If a patient had more than one Glasgow Eye Score recorded at this assessment,

enter the first value for which all GCS components and vital signs are recorded.

Data Type: Text Format: Length 3

Glasgow Motor Score at Assessment (MOTOR_RESPONSE)

Definition: The motor component of the Glasgow Coma Scale

Values: For patients >5 years old:

1 = None (no motor response)

2 = Extensor posturing in response to painful stimulation

3 = Flexor posturing in response to painful stimulation

4 = General withdrawal in response to painful stimulation

5 = Localization of painful stimulation

6 = Obeys commands with appropriate motor response

9 = Not assessed NA = Not applicable

UNK = Unknown or not documented

For patient's age 5 years or younger:

1 = None (no motor response)

2 = Extensor posturing in response to painful stimulation

3 = Flexor posturing in response to painful stimulation

4 = General withdrawal in response to painful stimulation

5 = Localization of painful stimulation

6 = Spontaneous

9 = Not assessed

NA = Not applicable

UNK = Unknown or not documented

References: See references listed under Glasgow Coma Scale Score.

If the patient had more than one Glasgow Motor Score recorded at this Notes:

assessment, enter the first value for which all GCS components and vital signs are

recorded.

Data Type: Text Format: Length 3

Glasgow Verbal Score at Assessment (VERBAL_RESPONSE)

The verbal component of the Glasgow Coma Scale **Definition:**

For patients>5 years old: Values:

> 1 = None

2 = Non-specific, incomprehensible sounds

3 = Inappropriate words

4 = Confused conversation or speech 5 = Oriented and appropriate speech

9 = Not assessed

NA = Not applicable

= Unknown or not documented UNK

For patients 2-5 years old:

1 = None

2 = Grunts

4

3 = Cries and/or screams

= Inappropriate words 5 = Appropriate words

= Not assessed

NA = Not applicable

UNK = Unknown or not documented

For patients 0-23 months:

= None. No vocal response 1

2 = Inconsolable, agitated

3 = Inconsistently consolable, moaning

4 = Cries but is consolable, inappropriate interactions

= Smiles, oriented to sounds, follows objects, interacts

9 = Not assessed NA = Not applicable

UNK = Unknown or documented

References: See references listed under Glasgow Coma Scale Score.

Notes: If the patient had more than one Glasgow Verbal Score recorded at this

assessment, enter the first value for which all components of the GCS and vital

signs are recorded.

Text Format: Data Type: Length 3

Glasgow Coma Scale Score at Assessment (GLASGOW)

Definition: The first Glasgow Coma Scale score recorded at this assessment (sum of eye,

verbal and motor components)

Values: Range = 3 to 15

99 = Can't be determined

NA = Not Applicable

UNK = Unknown or not documented

Related Glasgow Eye Score, Glasgow Verbal Score, Glasgow Motor Score

Variables:

References: "Aspects of coma after severe head injury". B Jennett, G Teasdale. Lancet 1 (Apr

23): 878-81. 1977.

"Problems with initial Glasgow Coma Scale assessment caused by prehospital treatment of patients with head injuries: results of a national survey." DW Marion,

PM Carlier. J. Trauma 36: 89-95. 1994.

"Reliability of the Glasgow Coma Scale when used by emergency physicians and

paramedics." JJ Menegazzi et al. J. Trauma 34: 46-48. 1993.

"Reliability and accuracy of the Glasgow Coma Scale with experienced and inexperienced users." G Rowley, K Fielding, Lancet 337: 535-538, 1991.

Notes: If the patient had more than one Glasgow Coma Score recorded, enter the first

value for which all the GCS components and vital signs are recorded.

If the patient does not have a numeric GCS recorded, but there is documentation related to their level of consciousness such as "AAOx3", "awake, alert, oriented", or "patient with normal mental status", interpret this as GCS of 15, IF there is no

contradicting documentation.

GCS<9 = Severe injury

9-11 = Moderately severe injury

12-14= Minor injury

Data Type: Text Format: Length 3

Patient Intubated at the time of GCS Assessment (INTUBATED)

Definition: Was the patient intubated at the time the GCS was measured?

Values: Y = Yes N = No

NA = Not applicable

UNK = Unknown or not documented

Related Glasgow Eye Score; Glasgow Verbal Score; Glasgow Motor Score;

Variables: Glasgow Coma Score

Paralytics Administered at the Time of Assessment (PARALYTICS)

Definition: Documentation of factors potentially affecting the first assessment of GCS upon

arrival in the ED/hospital.

Values: S = Patient chemically sedated

SI = Patient chemically sedated and intubated

SO = Patient chemically sedated and obstruction to eye

SIO = Patient chemically sedated, intubated, and obstruction to eye

I = Patient intubated

IO = Patient intubated and obstruction to eve

O = Obstruction to the patient's eye

NA = Not applicable (patient was not sedated, not intubated, and did not

have an obstruction to the eye)
UNK = Unknown or not documented

Notes: Identifies treatments given to the patient that might affect the assessment of the

GCS. This field does not apply to self-medications the patient might administer

(e.g., ETOH, prescription meds).

Data Type: Text Format: Length 5

Pre-hospital Cardiac Arrest (PREHOSPCARDIACARREST)

Definition: Indication of whether patient experienced cardiac arrest prior to ED/Hospital

arrival.

Values: Y= Yes

N= No

Notes: A patient who experienced a sudden cessation of cardiac activity. The patient was

unresponsive with no normal breathing and no signs of circulation.

The event must have occurred outside of the reporting hospital, prior to admission at the center in which the registry is maintained. Pre-hospital cardiac arrest could occur at a transferring institution.

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Any component of basic and /or advanced cardiac life support must have

been initiated by a health care provider.

Data Source Hierarchy: 1. EMS Run Report

2. Nursing Notes/ Flow Sheet

3. History and Physical

4. Transfer Notes

Trip Number (TRANSPORT_SEQ)

Definition: Numeric counter for a particular transport in the series of transports beginning at

the scene of the injury and finishing at a designated trauma center

Values: Whole numbers from 1 to the number of separate transports.

Examples: The trip number should reflect the chronologic sequence of the trip(s).

For example, if the patient was transported from the scene to your hospital, there

would only be one "trip" and trip number would = 1.

If the patient was taken from the scene to another hospital, then transferred from

that hospital to your hospital, there would be two "trips". The transport

from the scene to the first hospital would be trip number 1 and the transport from

the first hospital to your hospital would be trip number 2.

If a patient was taken from the scene by ground EMS to a rendezvous point, then flown by helicopter to your facility, there would be two "trips". The transport from the scene to the rendezvous point would be trip number 1 and the transport from

the rendezvous point to your facility would be trip number 2.

Data Type: Number Format: Length 2

Transport Origin (TRANSPORT_ORIGIN)

Definition: The origin of this leg of the transport **Values:** HOME = Home

SCENE = Injury Scene

FACILITY or [FacID] = Patient came from another facility. If the facility is on the Facility Code List in Appendix I, enter the Facility ID. If not, enter "FACILITY".

RENDEZVOUS = A rendezvous site

OTHER = Other

Notes: If the person was injured elsewhere, returned home, then called for EMS, select

"HOME". If the person was injured at home and EMS picked up the patient at

home, select "SCENE".

Data Type: Text Format: Length 10

Transport Destination (TRANSPORT_DESTINATION)

Definition: The destination of this leg of the transport

Values: FACILITY or [FacID] = If the facility is on the Facility Code List in Appendix I,

enter the Facility ID. If not, enter "FACILITY".

RENDEZVOUS = A rendezvous site

OTHER = Other

NA = Not applicable UNK = Unknown

Notes:

Transport Mode (TRANS)

Definition: Mode of transport for this leg of transport to the Trauma Center of Record.

Values: AMB = Ground ambulance

HELI = Helicopter ambulance

POV = Private or public vehicle/Walk-in

POL = Police vehicle

WING = Fixed wing ambulance

SP = Ski Patrol

OTHER = A transport mode other than the ones listed above

NA = Not applicable

UNK = Unknown or not documented

Related If the patient was transported by ground ambulance, helicopter, or fixed

Variables: wing aircraft, prehospital response time variables, triage codes and field vital signs

should also be completed.

Data Type: Text Format: Length 5

Other Transport Mode (TRANS_OTHER)

Definition: All other modes of transport used during patient care event, except the mode

delivering the patient to the hospital.

Values: AMB = Ambulance

HELI = Helicopter ambulance

POV = Private or public vehicle/Walk-in

POL = Police vehicle

WING = Fixed wing ambulance

OTHER = A transport mode other than those listed above

NA = Not applicable

UNK = Unknown or not documented

Notes: Allows data to be evaluated based on mode of transport utilized to reach the

hospital.

Data Type: Text Format: Length 5

Transport Agency (TRANSPORT_AGENCY_CODE)

Definition: Alphanumeric code for the prehospital agency or provider transporting the patient

on this leg of the transport

Values: A list of codes for prehospital care providers is found in Appendix II.

Examples: 02-01 = Alamosa County Ambulance Service

16-02 = Denver Health Paramedic Division

Notes: Transport Agency codes are in the form nn-nn, where the first pair of numbers

denotes the county where the agency is registered and the second pair of

numbers after the dash is a counter of agencies within the county.

Transport Record Number (TRANSPORT_RECORD_NO)

Definition: Identification number for this transport from the EMS trip report.

Values: Alphanumeric record identification number

NA = Not applicable

UNK = Unknown or not documented

Notes: The Transport Record Number will be used to link this transport to the prehospital

database.

Data Type: Text Format: Length 15

Patient Tracking Number (EMS_TRACKING_NO)

Definition: A tracking number assigned to the patient by EMS, so that the patient can be

tracked through all aspects of care.

Values: Alphanumeric record identification number

NA = Not applicable

UNK = Unknown or not documented

Notes: Some RETACs have expressed interest in using a "band" system with a unique

tracking number that would enable them to track a patient from the field to the ER through hospitalization and potentially rehab. This field allows for collection of a unique identifier that could be used throughout all aspects of the patient's care.

Data Type Text Format: Length 15

Transport Personnel Training Level (TRANSPORT_LEVEL)

Definition: The highest level of training for personnel involved in this leg of the transport.

Values: ALS = Advance Life Support

BLS = Basic Life Support NONE = Neither ALS nor BLS

NA = Not applicable (the person was not transported by EMS)

UNK = Unknown or not documented

Notes: Do not enter "Both". Use only the highest level.

If the patient was transported by private vehicle, police or walked-in, use "NA".

Distance (DISTANCE)

Definition: Distance in miles from the scene of injury to the first receiving facility. **Values:** Use whole miles if over 5 miles. Use miles and tenths if less than 5 miles.

NA = Not applicable

UNK = Unknown or not documented Even a rough estimate would be helpful.

Notes: Even a rough estimate would be hel Data Type: Text Format: Length 5

Transport Agency Notification Date (NOTIFY_DATE)

Definition: The date the prehospital agency responsible for this leg of the transport was

notified.

Related Transport Agency Notification Time

Variables:

Examples: 02/16/2007

Notes: Allows computation of time intervals.

Data Type: Date Format: mm/dd/yyyy

Transport Agency Notification Time (NOTIFY_TIME)

Definition: The time the prehospital agency responsible for this leg of the transport was

notified.

Values: 00:01 (midnight) through 23:59
Related Transport Agency Notification Date

Variables:

Data Type: Time **Format:** hh:mm

Transport Agency Mobilization Date (DATE_OUT)

Definition: The date the prehospital agency was mobilized (left the Base).

Related Transport Agency Mobilization Time

Variables:

Examples: 04/19/2007

Notes: Allows computation of time intervals.

Data Type: Date Format: mm/dd/yyyy

Transport Agency Mobilization Time (TIME_OUT)

Definition: The time the prehospital agency was mobilized (left the Base).

Values: 00:01 (midnight) through 23:59 **Related** Transport Agency Mobilization Date

Variables:

Data Type: Time **Format**:hh:mm

Transport Scene Arrival Date (ARRIVAL_DATE)

Definition: The date the prehospital agency arrived at the scene.

Related Transport Scene Arrival Time

Variables:

Examples: 03/26/2007

Notes: Allows computation of time intervals.

Data Type: Date Format: mm/dd/yyyy

Transport Scene Arrival Time (ARRIVAL_TIME)

Definition: The time the prehospital agency arrived at the scene.

Values: 00:01 (midnight) through 23:59 **Related** Transport Scene Arrival Date

Variables:

Data Type: Time **Format:** hh:mm

Transport Scene Departure Date (DEPARTURE_DATE)

Definition: The date the prehospital agency departed from the scene.

Related Transport Scene Departure Time

Variables:

Examples: 03/29/2007

Notes: Allows computation of time intervals.

Data Type: Date Format: mm/dd/yyyy

Transport Scene Departure Time (DEPARTURE_TIME)

Definition: The time the prehospital agency departed from the scene.

Values: 00:01 (midnight) through 23:59
Related Transport Scene Departure Date

Variables:

Data Type: Time **Format**: hh:mm

Transport Destination Arrival Date (DESTINATION_ARRIVAL_DATE)

Definition: The date the prehospital agency arrived at its destination.

Related Transport Destination Arrival Time

Variables:

Examples: 05/20/2007

Notes: Allows computation of time intervals

Data Type: Date **Format:** mm/dd/yyyy

Transport Destination Arrival Time (DESTINATION_ARRIVAL_TIME)

Definition: The time the prehospital agency arrived at its destination

Values: 00:01 (midnight) through 23:59 **Related** Transport Destination Arrival Date

Variables:

Data Type Time **Format:** hh:mm

Transferring Facility (FROM_HOSPITAL)

Definition: The state code for the facility from which the patient was transferred.

Values: A list of facilities and codes is found in Appendix I.

NA = Not applicable

UNK = Unknown or not documented

Transfer Mode (TRANSFER_MODE)

Definition: The mode of transport from the referring facility to the receiving facility (the

Trauma Center of Record).

Values: AMB = Ground ambulance

HELI = Helicopter

WING = Fixed wing aircraft
POL = Police vehicle
POV = Private vehicle

OTHER = A mode other than those listed above

NA = Not applicable (patient was not transported)

UNK = Unknown or not documented

Related If the patient was transported by ground ambulance, helicopter, or fixed

Variables: wing aircraft, prehospital response time variables, triage codes and field vital signs

should also be completed.

Data Type: Text Format: Length 5

Date of Arrival at the Referring Facility (REFERRING_ARRIVAL_DATE)

Definition: The date the patient arrived at the referring facility.

Related Time of Arrival at the Referring Facility

Variables:

Examples: 04/23/2007

Notes: Allows computation of time intervals.

DataType: Date **Format:** mm/dd/yyyy

Time of Arrival at the Referring Facility (REFERRING_ARRIVAL_TIME)

Definition: The time the patient arrived at the referring facility. The referring facility is a facility

to which the patient was taken after the injury, and from which he or she was then

transferred to the Trauma Center of Record.

Values: Range 00:01 to 23:59

Related Date of Arrival at the Referring Facility

Variables:

Data Type: Time **Format:** hh:mm

Date of Discharge from the Referring Facility (REFERRING_DISCHARGE_DATE)

Definition: The date the patient was discharged or transferred from the referring facility.

Related Referring Facility Discharge Time

Variables:

Examples: 03/31/2007

Notes: Allows computation of time intervals.

Data Type: Date **Format:** mm/dd/yyyy

Time of Discharge from the Referring Facility (REFERRING DISCHARGE TIME)

Definition: The time the patient was discharged from or transferred from the referring facility.

If the patient was admitted to the referring facility, this would be the discharge time. If the patient was seen in the ED of the referring facility, but was never admitted, this would be the time the patient left the facility and was transferred to

the receiving facility (the Trauma Center of Record).

Values: Range 00:01 to 23:59

Related Referring Facility Discharge Date

Variables:

Data Type: Time **Format:** hh:mm

Status of the Patient at the Referring Facility (REFERRING_ADMIT_TYPE)

Definition: The admission status of the patient at the referring facility prior to discharge or

transfer

Values: A = Admitted as an inpatient at the referring facility

E = Only seen in the emergency department of the referring facility
 NA = Not applicable (the referring facility does not admit patients or has no

Emergency Department)

UNK = Unknown or not documented

Trauma Surgeon Consultation (REFERRING_CONSULT)

Definition: Did the transferring hospital consult with a trauma surgeon at the trauma center of

record prior to transfer? The consult must be with a trauma surgeon, and not another surgeon on the trauma service such as an orthopedic surgeon or

neurosurgeon.

Values: Y = Yes

N = No

NA = Not applicable

UNK = Unknown or not documented

Data Type: Text Format: Length 3

Date of Consultation with the Trauma Surgeon (REFERRING_CONSULT_DATE)

Definition: The date of consultation with the trauma surgeon **Related** Time of Consultation with the Trauma Surgeon

Variables:

Examples: 05/21/2007

Notes: Allows computation of time intervals.

Data Type: Date **Format:** mm/dd/yyyy

Time of Consultation with the Trauma Surgeon (REFERRING_CONSULT_TIME)

Definition: The time of consultation with the trauma surgeon

Values: 00:01 (midnight) through 23:59

Related Date of Consultation with Trauma Surgeon

Variables:

Data Type: Time **Format**: hh:mm

Referring Registry Number (DATABASE_ID)

Definition: The trauma registry number at the referring facility.

Values: Alphanumeric TraumaBase record ID

NA = Not applicable

UNK = Unknown or not documented

Related Transferring Facility Number

Variables:

Data Type: Text Format: Length 10

Payment Source (PAYMENT_SOURCE)

Definition: Sources identified by the admitting facility as responsible for the patient's bill

Values: INS = Private/Commercial Insurance (HMO, PPO, etc.)

MCAID = Medicaid MCARE = Medicare

NOBILL = Not billed (for any reason)

OTHGOV = Other government

SELF = Self-pay

OTHER = A payment source other than those listed above

NA = Not applicable

UNK = Unknown or not documented

Notes: The options were modified in 2008 to match the categories listed for the National

Trauma Data Standard

ICD-9 Diagnostic/Operative Procedure (PROCEDURE_ICD9)

Definition: ICD9 procedure code for specified diagnostic or operative procedures.

Values: Examples:

Operations on the nervous system

- 87.03 CT scan of the head
- 01.18 Other diagnostic procedures on brain and cerebral meninges
- 01.24 Other craniotomy
- 01.31 Incision of cerebral meninges
- 02.02 Elevation of skull fracture fragments
- 02.94 Insertion or replacement of skull tongs or halo traction device
- 03.0 Exploration and decompression of spinal canal structures
- 93.41 Spinal traction using skull device

Operations on the respiratory system

- 31.1 Temporary tracheostomy
- 32, 33 Excision of lung and bronchus
- 34.02 Exploratory thoracotomy
- 96.04 Insertion of endotracheal tube
- 87.41 CT scan of chest

Operations on the cardiovascular system

- 37.12 Pericardiotomy
- 37.91 Open chest cardiac massage
- 38.44 Resection/repair of abdominal aorta
- 38.45 Resection/repair of thoracic vessel
- 88.42 Aortography

Operations on digestive system (abdomen)

- 52.11 52.19 54.11-54.19 Laparotomy (corrected 10/22/2015)
 - 54.25 Peritoneal lavage
 - 50.61 Closure of laceration of liver
 - 88.01 CT scan of abdomen
 - 88.76 Diagnostic ultrasound of abdomen and retroperitoneum

Operations on musculoskeletal system

- 79.35 Open reduction of femur fracture with internal fixation
- 78.15 Application of external fixation device (femur)
- 78.16 Application of external fixation device (other, including pelvis)

References: International Classification of Diseases. 9th Revision. Clinical Modification (ICD9-CM).

Notes: The null value "Not applicable" is used if not coding ICD-9.

The National Trauma Data Standard defines "Operative and/or essential procedures" as procedures performed in the Operating Room, Emergency Department, ICU, floor or radiology dept. that were essential to the diagnosis, stabilization or treatment of the patient's specific injuries. Repeated diagnostic procedures (e.g., repeated CT scan) should not be recorded (record only the first procedure). Include only procedures performed at your institution.

The list of required procedures for download to the NTDB was modified on 2/15/2011. The NTDB list is included here for reference. If your facility downloads

to the NTDB, you should follow the NTDB guidelines/instruction. If your facility does not download to NTDB, for the purposes of the Colorado Trauma Registry, the highest priority is to include those procedures that resulted in definitive diagnosis or care of the patient.

NTDB list as of 2/15/2011:

Diagnostic & Therapeutic Imaging

- Computerized tomographic studies *
- Diagnostic ultrasound (includes FAST) *
- Doppler ultrasound of extremities *
- Angiography
- Angioembolization
- Echocardiography
- Cystogram
- Urethrogram

Cardiovascular

- · Central venous catheter *
- Pulmonary artery catheter *
- Cardiac output monitoring *
- Open cardiac massage
- CPR

CNS

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

Musculoskeletal

- Soft tissue/bony debridements *
- Closed reduction of fractures
- Skeletal and halo traction
- Fasciotomy

Genitourinary

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

Transfusion

- The following blood products should be captured over first 24 hours after hospital arrival:
- Transfusion of red cells *
- Transfusion of platelets *
- Transfusion of plasma *
- In addition to coding the individual blood products listed above assign the 99.01 ICD-9 procedure code on patients that receive > 10 units of blood products over first 24 hours following hospital arrival *

Respiratory

- Insertion of endotracheal tube*
- Continuous mechanical ventilation *
- Chest tube *
- Bronchoscopy *
- Tracheostomy

Gastrointestinal

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

Other

- Hyperbaric oxygen
- Decompression chamber
- TPN *
- IVC filter

ICD-10 Hospital Procedure Codes (PROCCODEICD10)

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.

Values: Major and minor procedure ICD-10-CM procedure codes.

The maximum number of procedures that may be reported for a patient is 200.

Notes: The null value "Not applicable" is used if not coding ICD-10.

The null value "Not Applicable" is used if the patient did not have procedures. The null value "Not Known/ Not Recorded" is used if not coding ICD-10 Field cannot be blank, must either (1) contain a valid ICD-10 code (2) be Not Known/Not Recorded if not coding ICD-10 or (3) be Not Applicable if no

procedures were performed.

Include only procedures performed at your institution.

Capture all procedures performed in the operating room.

Capture all procedures in the ED, ICU, war, or radiology department that were essential to the diagnosis, stabilization, or treatment of the patient's specific injuries or their complications.

Procedures with an asterisk have the potential to be performed multiple times during one episode of hospitalization. In this case, capture only the first event. If there is no asterisk, capture each event even if there is more than one.

Note that the hospital may capture additional procedures.

Procedures with the same code cannot have the same Hospital Procedure Start Date and Time.

Data Source Hierarchy: 1. Operative Reports

2. Procedure Notes

3. Trauma Flow Sheet

4. ED Record

5. Nursing Notes/Flow Sheet

6. Radiology Reports

7. Discharge Summary

Diagnostic/Operative Procedure Start Date (PROCEDURE_START_DATE)

Definition: The date the operative procedure started.

Notes: This variable will be downloaded to the Colorado Trauma Registry beginning with

discharges in September 2008.

Data Type: Date Format: mm/dd/yyyy

Diagnostic/Operative Procedure Start Time (PROCEDURE_START_TIME)

Definition: The time the operative procedure started.

Notes: This variable will be downloaded to the Colorado Trauma Registry beginning with

discharges in September 2008.

Data Type: Time Format: hh:mm

Hospital Complications (COMP TYPE)

Definition: Any medical complication that occurred during the patient's stay at your hospital.

Values:

ARF = Acute kidney Injury (NTDS4)

= Acute lung injury (ALI)/Adult (acute) respiratory distress ARDS

syndrome (ARDS) (NTDS5)

Retired in 2016 = Catheter-related bloodstream infection (NTDS28) **CATH**

= Catheter-associated urinary tract infection (NTDS33) CAUTI Added in 2016

CLABSI Central line-associated bloodstream infection (NTDS34)

CPR = Cardiac arrest with resuscitative efforts by healthcare provider

Cardiac arrest with CPR (NTDS8) Changed title in 2016

CVA = Stroke or CVA (NTDS22) **DECUB** = Decubitus ulcer (NTDS11)

= Deep vein thrombosis (DVT) or thrombophlebitis Deep vein DVT

thrombosis (NTDS14) Changed title in 2016

= Extremity compartment syndrome (NTDS15) **ECS**

FAIL = Graft or prosthesis or flap failure (NTDS16) Retired in 2016

= Unplanned return to the ICU (NTDS31) ICU **INTUB** = Unplanned intubation (NTDS25)

MΙ = Myocardial infarction (NTDS18)

= Unplanned return to the OR (NTDS30) OR

= Organ or space surgical site infection (NTDS19) ORGAN

OSTEO Osteomyelitis (NTDS29)

= Pneumonia(NTDS20) Retired in 2016 PNEU-

PE = Pulmonary embolism (NTDS21)

SEVSEP = Severe sepsis (NTDS32)

SUP = Superficial surgical site infection (NTDS23)

SURGINF = Deep surgical site infection (NTDS12)

UTI-= Urinary Tract Infection (NTDS27)

VAP = Ventilator=associated pneumonia (NTDS35)

WITH = Drug or alcohol withdrawal syndrome (NTDS13)

OTHER = Other complication not listed above (NTDS1)

NA = Not applicable (use for patients with no complications)

(NTDS Null/NA)

UNK = Unknown or not documented (NTDS Null/NA)

Notes: Allows data to be used to characterize patients and hospital outcomes based

upon the presence (and type) or hospital complication.

Retired in 2016

Definitions for all of these complications can be found in the 2014 National Trauma Data Standard data dictionary in Appendix 3: Glossary of Terms at http://www.ntdsdictionary.org/documents/2014NTDSDataDictionary.pdf) and are

also provided below, in the Glossary of Terms.

Glossary of Terms:

ARF = Acute kidney injury: A patient who did not require chronic renal replacement therapy prior to injury, who has worsening renal dysfunction after injury requiring renal replacement therapy. If the patient or family refuses treatment (e.g., dialysis,) the condition is still considered to be present if a combination of oliguria and

Added in 2016

Added in 2016

creatinine are present.GFR criteria: Increase creatinine x3 or GFR decrease >75% Urine output criteria: UO <0.3ml/kg/h x 24 hr or Anuria x 12 hrs

Acute kidney injury, AKI (stage 3), is an abrupt reduction of kidney function defined as:

Increase in serum creatinine (SCr) of more than or equal to 3x baseline

or;

Increase in SCr to ≥ 4 mg/dl (≥ 353.3 μ mol/l)

or;

Patients >18 years with a decrease in e GFR to < 35 ml/min per 1.73 m²

or;

Reduction in urine output of $< 0.3 \text{ ml/kg/hr for} \ge 24 \text{ hrs.}$

or:

Anuria for \geq 12 hrs.

or;

Requiring renal replacement therapy (e.g. continuous renal replacement therapy (CRRT) or periodic peritoneal dialysis, hemodialysis, hemofiltration, or hemodiafiltration).

NOTE: If the patient or family refuses treatment (e.g., dialysis,) the condition is still considered to be present if a combination of oliquria 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.

ARDS

= ALI/ARDS Acute Lung Injury/Adult (Acute) Respiratory Distress Syndrome: ALI/ARDS occurs in conjunction with catastrophic medical conditions, such as pneumonia, shock, sepsis (or severe infection throughout the body, sometimes also referred to as systemic infection, and may include or also be called a blood or blood-borne infection,) and trauma.

It is a form of sudden and often severe lung failure that is usually characterized by a PaO2/Fi02 ratio of <300 mmHg, bilateral fluffy infiltrates seen on a frontal chest radiograph, and an absence of clearly demonstrable volume overload (as signified by pulmonary wedge pressure, 18mmHg, if measured, or other similar surrogates such as echocardiography which do not demonstrate analogous findings.)

CAUTI = A 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 >2 calendar days and then removed, the date of event for the UTI must be the day of discontinuation or the next day for the UTI to be catheter-associated.

CAUTI Criterion (Symptomatic Urinary Tract Infection, SUTI) 1a:

Patient must meet 1, 2, and 3 below:

- 1. Patient has an indwelling urinary catheter in place for the entire day on the date of event and such catheter had been in place for >2 calendar days, on that date (day of device placement = Day 1)
- 2. Patient has at least one of the following signs or symptoms: Fever (>38°C) Suprapubic tenderness with no other recognized cause Costovertebral angle pain or tenderness with no other recognized cause
- 3. Patient has a urine culture with no more than two species of organisms, at least one of which is a bacteria >10⁵ CFU/ml.

OR

Patient must meet 1, 2, and 3 below:

- 1. Patient had an indwelling urinary catheter in place for >2 calendar days which was removed on the day of, or day before the date of event.
- 2. Patient has at least one of the following signs or symptoms:
 - fever (>38°C)
 - suprapubic tenderness with no other recognized cause
 - costovertebral angle pain or tenderness with no other recognized cause
 - urinary urgency with no other recognized cause
 - urinary frequency with no other recognized cause
 - dysuria with no other recognized cause
- 3. Patient has a urine culture with no more than two species of organisms, at least one of which is a bacteria ≥10⁵ CFU/ml.

CAUTI Criterion (Symptomatic Urinary Tract Infection, 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 with no other recognized cause
 - bradycardia with no other recognized cause
 - lethargy with no other recognized cause
 - vomiting with no other recognized cause
 - suprapubic tenderness with no other recognized cause
- 3. Patient has a urine culture with no more than two species of organisms, at

least one of which is bacteria of ≥10⁵ CFU/ml.

CLABSI = (Consistent with the January 2014 CDC Defined CLABSI): A laboratory-confirmed bloodstream infection (LCBI) where central line (CL) or umbilical catheter (UC) was in place for >2 calendar days on the date of event, with day of device placement being Day 1,

AND

A CL or UC was in place on the date of event or the day before. If a CL or UC was in place for >2 calendar days and then removed, the LCBI criteria must be fully met on the day of discontinuation or the next day. If the patient is admitted or transferred into a facility with a central line in place (e.g., tunneled or implanted central line), and that is the patient's only central line, day of first access as an inpatient is considered Day 1. "Access" is defined as line placement, infusion or withdrawal through the line.

January 2014 CDC Criterion LCBI 1:

Patient has a recognized pathogen cultured from one or more blood cultures

AND

Organism cultured from blood is not related to an infection at another site

OR

January 2014 CDC Criterion LCBI 2:

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

AND

positive laboratory results are 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 cultured from two or more blood cultures drawn on separate occasions. Criterion elements must occur within a timeframe that does not exceed a gap of 1 calendar day between two adjacent elements

OR

January 2014 CDC Criterion LCBI 3:

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

AND

positive laboratory results are 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 cultured from two or more blood cultures drawn on the same or consecutive days and separate occasions. Criterion elements must occur within a timeframe that does not exceed a gap of 1 calendar day between two adjacent elements.

CPR = Cardiac arrest with resuscitative efforts by healthcare provider: The sudden abrupt loss of cardiac function that results in loss of consciousness requiring the initiation of any component of basic and/or advanced cardiac life support.

EXCLUDE patients that arrive at the hospital in full arrest.

CVA = Stroke or CVA): A focal or global neurological deficit of rapid onset and NOT present on admission. The patient must have at least one of the following symptoms:

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 infact 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.).

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.

- DECUB = Decubitus ulcer: Any partial or full thickness loss of dermis resulting from pressure exerted by the patient's weight against a surface. Deeper tissues may or may not be involved. Equivalent to NPUAP Stages II –IV and NPUAP "unstageable" ulcers. EXCLUDES intact skin with non-blanching redness (NPUAP Stage I,) which is considered reversible tissue injury.
- DVT = Deep vein thrombosis (DVT): The formation, development, or existence of a blood clot or thrombus within the deep vascular system, which may be coupled with inflammation. This diagnosis may be confirmed by a venogram, ultrasound, or CT.
- ECS = Extremity compartment syndrome: A condition not present at admission in which there is documentation of tense muscular compartments of an extremity through clinical assessment or direct measurement of intracompartmental pressure requiring fasciotomy. Compartment syndromes usually involve the leg but can also occur in the forearm, arm, thigh, and shoulder. Record as a complication if it is originally missed, leading to late recognition, a need for late intervention, and has threatened limb viability.
- ICU = Unplanned return to the ICU: Unplanned return to the intensive care unit after initial ICU discharge. Does not apply if ICU care is required for postoperative care of a planned surgical procedure.
- INTUB= Unplanned intubation: Patient requires placement of an endotracheal tube and mechanical or assisted ventilation because of the onset of respiratory or cardiac failure manifested by severe respiratory distress, hypoxia, hypercarbia, or respiratory acidosis. In patients who were intubated in the field or Emergency Department, or those intubated for surgery, unplanned intubation occurs if they require reintubation >24 hours after extubation.
- MI = Myocardial infarction: A new acute myocardial infarction occurring during hospitalization (within 30 days of injury.)
- OR = Unplanned return to the OR: Unplanned return to the operating room after initial operation management for a similar or related previous procedure.
- ORGAN = Organ or space surgical site infection: An infection that occurs within 30 days after an operation and infection involves any part of the anatomy (e.g., organs or spaces) other than the incision, which was opened or manipulated during a procedure; and at least one of the following, including: Purulent drainage from a drain that is placed through a stab wound or puncture into the organ/space. Organisms isolated from an aseptically obtained culture of fluid or tissue in the organ/space. An abscess or other evidence of infection involving the organ/space that is found on direct examination, during reoperation, or by histopathologic or radiologic examination. Diagnosis of an organ/space SSI by a surgeon or attending physician.
- OSTEO = Osteomyelitis: Defined as meeting at least one of the following criteria:
 Organisms cultured from bone.
 Evidence of osteomyelitis on direct examination of the bone during a surgical operation or histopathologic examination.

At least two of the following signs or symptoms with no other recognized cause: Fever (38° C)

Localized swelling at suspected site of bone infection

Tenderness at suspected site of bone infection

Heat at suspected site of bone infection

Drainage at suspected site of bone infection

AND at least one of the following:

Organisms cultured from blood positive blood antigen test (e.g., H. influenza, S. pneumonia)

Radiographic evidence of infection, e.g., abnormal findings on x-ray, CT scan, magnetic resonance imaging (MRI,) radiolabel scan (gallium, technetium, etc.) Histopathologic evidence of pneumonia

Osteomyelitis (Consistent with the January 2015 CDC definition of Bone and Joint infection): Bone and Joint infection that meets at least **one** of the following criteria:

- Patient has organisms cultured from bone.
- Patient has evidence of osteomyelitis on gross anatomic or histopathologic exam
- Patient has at least two of the following localized signs or symptoms with no other recognized cause:
 - o Fever (38°C)
 - o swelling
 - o pain or tenderness
 - o Heat
 - o Drainage

AND at least **one** of the following:

- o Organisms cultured from blood in a patient with imaging test evidence of infection
- o Positive non-cultured diagnostic lab test on blood (e.g., antigen test, PCR)
- o Imaging test evidence of infection (e.g., x-ray, CT scan, MRI, radiolabel scan [gallium, technetium, etc.])
- PE = Pulmonary embolism: A lodging of a blood clot in a pulmonary artery with subsequent obstruction of blood supply to the lung parenchyma. The blood clots usually originate from the deep leg veins or the pelvic venous system. Consider the condition present if the patient has a V-Q scan interpreted as high probability of pulmonary embolism or a positive pulmonary arteriogram or positive CT angiogram.
- SEVSEP = Severe sepsis): Sepsis and/or Severe Sepsis defined as an obvious source of infection with bacteremia and two or more of the following:

Temp $>38^{\circ}$ C or $< 36^{\circ}$ C

WBC count >12,000/mm³, or > 20%immature (source of infection)

Hypotension – (Severe Sepsis)

Evidence of hypo perfusion: (Severe Sepsis)

Anion gap or lactic acidosis or Oliguria, or Altered mental status.

SUP = Superficial surgical site infection: An infection that occurs within 30 days after an operation and infection involves only skin or subcutaneous tissue of the incision and at least one of the following: Purulent drainage, with or without laboratory

confirmation, from the superficial incision. Organisms isolated from an aseptically obtained culture of fluid or tissue from the superficial incision. At least one of the following signs or symptoms of infection: pain or tenderness, localized swelling, redness, or heat and superficial incision are deliberately opened by the surgeon, unless incision is culture-negative. Diagnosis of superficial incisional surgical site infection by the surgeon or attending physician.

Do not report the following conditions as superficial surgical site infection: Stitch abscess (minimal inflammation and discharge confined to the points of suture penetration.)

Infected burn wound.

Incisional SSI that extends into the fascial and muscle layers (see deep surgical site infection.)

SURGINF = Deep surgical site infection: A deep incisional SSI must meet one of the following criteria: Infection occurs within 30 days after the operative procedure if no implant is left in place or within one year if implant is in place and the infection appears to be related to the operative procedure and involves deep soft tissues (e.g., fascial and muscle layers) of the incision; AND patient has at least one of the following: Purulent drainage from the deep incision but not from the organ/space component of the surgical site of the following:

A deep incision spontaneously dehisces or is deliberately opened by a surgeon and is culture-positive or not cultured when the patient has at least one of the following signs or symptoms: fever (>38C,) or localized pain or tenderness. A culture negative finding does not meet this criterion.

An abscess or other evidence of infection involving the deep incision is found on direct examination, during reoperation, or by histopathologic or radiologic examination.

Diagnosis of a deep incisional SSI by a surgeon or attending physician.

NOTE: There are two specific types of deep incisional SSIs:

Deep Incisional Primary (DIP): a deep incisional SSI that is identified in a primary incision in a patient that has had an operation with one or more incisions (e.g., C-section incision or chest incision for CBGB)

Deep Incisional Secondary (DIS): a deep incisional SSI that is identified in the secondary incision in a patient that has had an operation with more than one incision (e.g., donor site [leg] incision for CBGB.)

REPORTING INSTRUCTION: Classify infection that involves both superficial and deep incision sites as deep incisional SSI.

VAP = Ventilator-associated Pneumonia (Consistent with the January 2015 CDC Defined VAP): A pneumonia where the patient is on mechanical ventilation for >2 calendar days on the date of event, with day of ventilator placement being Day 1,

AND

The ventilator was in place on the date of event or the day before. If the patient is admitted or transferred into a facility on a ventilator, the day of admission is

considered Day 1.

VAP Algorithm (PNU2 Bacterial or Filamentous Fungal Pathogens):

Radiology	Signs/Symptoms	Laboratory
	At least one of the following:	At least one of the following:
Two or more serial chest radiographs with at least one of the following: • New or progressive and persistent infiltrate • Consolidation • Cavitation • Pneumatoceles, in infants ≤1 year old	 At least one of the following: Fever (>38°C or >100.4°F) Leukopenia (<4000 WBC/mm³) or leukocytosis (≥12,000 WBC/ mm³) For adults ≥70 years old, altered mental 	Positive growth in blood culture not related to another source of infection Positive growth in culture of pleural fluid Positive quantitative culture from minimally-contaminated LRT specimen (e.g., BAL or
NOTE: In patients without underlying pulmonary or cardiac disease (e.g., respiratory distress	status with no other recognized cause AND at least two of the following:	protected specimen brushing) • ≥5% BAL-obtained cells contain intracellular bacteria
syndrome, bronchopulmonary dysplasia, pulmonary edema, or chronic obstructive pulmonary disease), one definitive chest radiograph is acceptable	 New onset of purulent sputum, or change in character of sputum, or increased respiratory secretions, or increased suctioning requirements New onset or worsening cough, or syspnea, or tachypnea Rales or bronchial breath sounds Worsening gas exchange (e.g., O₂ desaturations (e.g., PaO₂/FiO₂≤240), increased oxygen requirements, or increased ventilator demand) 	on direct microscopic exam (e.g., Gram's stain) Positive quantitative culture of lung tissue Histopathologic exam shows at least one of the following evidences of pneumonia: Abscess formation of foci of consolidation with intense PMN accumulation in bronchioles and alveoli Evidence of lunch parenchyma invasion by fungal hyphae or pseudohyphae

Dadialani	Ciana/Cymatama	Laboratom
Radiology	Signs/Symptoms	Laboratory
radiographs with at least one	At least one of the following:	
<u> </u>	 Fever (>38°C or 	
Two or more serial chest radiographs with at least one of the following: New or progressive and persistent infiltrate Consolidation Pneumatoceles, in infants ≤1 year old NOTE: In patients without underlying pulmonary or cardiac disease (e.g., respiratory distress syndrome, bronchopulmonary dysplasia, pulmonary edema, or chronic obstructive pulmonary disease), one definitive chest radiograph is acceptable	Fever (>38°C or >100.4°F) Leukopenia (<4000 WBC/mm³) or leukocytosis (≥12,000 WBC/ mm³) For adults ≥70 years old, altered mental status with no other recognized cause AND at least two of the following: New onset of purulent sputum, or change in character of sputum, or increased respiratory secretions, or increased suctioning	At least one of the following:
	 requirements New onset or worsening cough, or syspnea, or tachypnea 	in urine by RIA or EIA
	 Rales or bronchial breath sounds 	
	 Worsening gas exchange (e.g., O₂ desaturations (e.g., PaO₂/FiO₂≤240), increased oxygen requirements, or requirements, or 	
	increased ventilator demand)	

VAP Algorithm ALTERNATE CRITERIA (PNU1), for infant's ≤ 1year old:

Signs/Symptoms Radiology Worsening gas exchange (e.g., 02 Two or more serial chest radiographs with at least **one** of the following: desaturations (pulse oximetry <94%), increased oxygen requirements, or increased New or progressive and persistent ventilator demand) infiltrate Consolidation **AND** at least three of the following: Cavitation Temperature instability Leukopenia (<400 WBC/mm³) or Pneumatoceles, in infants ≤1 year old leukocytosis (≥15,000 WBC/mm³) and left shift (≥10%) band forms) NOTE: In patients without underlying New onset or purulent sputum, or pulmonary or cardiac disease (e.g., change in character of sputum, or respiratory distress syndrome, bronchopulmonary dysplasia, increased respiratory secretions, or pulmonary edema, or chronic increased suctioning requirements obstructive pulmonary disease), one Apnea, tachypnea, nasal flaring with definitive chest radiograph is retraction of chest wall, or nasal flaring acceptable with grunting Wheezing rales, or rhonci Cough

VAP Algorithm ALTERNATE CRITERIA (PNU1), for children >1 year old or ≤ 12 years old:

Bradycardia (<100 beats/min) or tachycardia (>170 beats/min)

Radiology	Signs/Symptoms
Two or more serial chest radiographs with at	At least three of the following:
least one of the following:	 Fever (>38°C or >100.4°F) or
 New or progressive and persistent infiltrate 	hypothermia (<36°C or <96.8°F)
 Consolidation 	 Leukopenia (<4000 WBC/mm³) or
 Cavitation 	leukocytosis (≥15,000 WBC/ mm³)
 Pneumatoceles, in infants ≤1 year old 	 New onset of purulent sputum, or change in character of sputum, or
NOTE: In patients without underlying	increased respiratory secretions, or
pulmonary or cardiac disease (e.g.,	increased suctioning requirements
respiratory distress syndrome,	New onset or worsening cough, or
bronchopulmonary dysplasia, pulmonary edema, or chronic	dyspnea, apnea or tachypnea
obstructive pulmonary disease), one	Rales or bronchial breath sounds
definitive chest radiograph is	 Worsening gas exchange (e.g., O₂
acceptable	desaturations [e.g., pulse oximetry
	<94%], increased oxygen
	requirements, or increased ventilator
	demand)

WITH = Drug or alcohol withdrawal syndrome (NTDS 13): A set of symptoms that may occur when a person who has been habitually drinking too much alcohol or habitually using certain drugs (e.g., narcotics, benzodiazepine) experiences physical symptoms upon suddenly stopping consumption. Symptoms may include: activation syndrome (i.e., tremulousness, agitation, rapid heartbeat and high blood pressure,) seizures, hallucinations or delirium tremens.

Re-encounter/Re-admission (READMISSION)

Definition: Does this record represent an unplanned/unexpected re-encounter or re-

admission with a patient who has already been seen for this injury event, and is now returning for complications, missed diagnoses, failure of conservative

management, iatrogenic injuries or other issues?

Values: N=No

Y=Yes

NA = Not applicable

UNK = Unknown or not documented

Notes: The default value for this variable (and the other variables related to re-

encounter/readmission) should be "NA" as most records are not re-

encounters/readmissions.

There are four possible scenarios for re-encounters/re-admissions:

The patient came to your ED, was discharged from the ED, then returned to your facility at a later time (within 30 days) and was admitted.

The patient was seen at another facility's ED, was discharged from that ED, then came to your facility at a later time and was admitted.

The patient was admitted as an inpatient at another facility, was discharged, then came to your facility at a later time and was admitted.

The patient was admitted as an inpatient at your facility, was discharged, then returned to your facility at a later time and was re-admitted.

For the first three scenarios, a full record with all required variables should be completed on this case. Additionally, all variables that pertain to re-encounters/readmissions should be completed

For the last scenario, a record should already exist in your trauma registry. For the re-admission, the trauma number assigned to the re-admission should be the original trauma number with ".1", ".2", ".3", etc. appended. For this scenario, a full second record does NOT need to be completed. The variables that should be completed in the second record include:

Trauma Number (if possible, previous Trauma Number with ".1", ".2", etc.)

Patient Name

Patient zip code of residence

Injury Description (describe the reason for the readmit)

Outcome

Trauma Center arrival date/time

Trauma Team Activation

Hospital admission date/time

Hospital discharge date/time

ICU days

Ventilator days

Hospital discharge disposition

Autopsy

ICD-9-CM diagnosis codes (identified DURING this encounter)

AIS code (identified DURING this encounter)

Diagnosis description (identified DURING this encounter)

Body region of injury (identified DURING this encounter)

ISS (identified DURING this encounter)

Payment source

Procedure codes/date/times (DURING this encounter)

Complications (DURING this encounter)

The first record should NOT be modified based on information from the second

admission.

Data Type: Text Format: Length 3

Hospital of Previous Encounter (READMISSION_FACILITY)

Definition: The state code (facility ID) of the hospital where the patient was previously seen

for this injury

Data Type

Values: A list of facilities and codes is found in Appendix I.

NA = Not applicable

UNK = Unknown or not documented Text Format: Length 6

Location of Previous Encounter (READMISSION ADMIT TYPE)

Definition: The admission status of the patient at the hospital where he/she was previously

seen for this injury

Values: A = Admitted as an inpatient

E = Only seen in the emergency department

NA = Not applicable

UNK = Unknown or not documented

Data Type: Text Format: Length 5

Discharge Date of Previous Encounter (READMISSION_DC_DATE)

Definition: The discharge date from the previous encounter (ED or inpatient admission).

Examples: 03/29/2007

Notes: Allows computation of time intervals and identification of previous records.

Data Type: Date **Format:** mm/dd/yyyy

Trauma Number at Previous Facility (READMISSION_ID)

Definition: The trauma registry number at the hospital where the patient was previously seen

for this injury.

Values: TraumaBase or Trauma One record ID

NA = Not applicable

UNK = Unknown or not documented

Related Hospital of Previous Encounter

Variables:

Notes: This variable should only be completed if the patient's previous

encounter was at another facility (not your facility).

Data Type: Text Format: Length 10

Reason for Re-encounter/Re-admission (READMISSION REASON) REVISED 1/2014

Definition: What was the reason for this patient's re-encounter/re-admission?

Values: MISSED = Missed diagnosis

COMP = Complication IATR = latrogenic injury

FAIL = Failed conservative management or outpatient pain control

OTHER = Other

NA = Not applicable

Notes: The NA value should be used for records that are not re-encounters/readmissions

2014 Change Log

Reason for Re-encounter/Re-admission

Retired: NA and UNK

Co-morbid Conditions

- Modified definition: ABUSE, CHEMO, COAG, DIAL, DM, ETOH, OBESE, RAP, SMOKER
- Retired: ASTHMA, CARDIAC, COPD, IDDM, IMMUNE, LIVER, NEURO, PAIN, PREG, SCI, SENS, SURG
- o New: DEM, PSY

Hospital Complications

- Modified definition: ARF, ARDS, CPR
- o Retired: ACS, ABD, BLD, COAG, COMA, DISRUPT, ICP, SEPSIS

2015 Change Log

- A. Triage 8 New Codes: BURN, BURNT, COAG, EJECT, GCS14, GSBP, JUDGE, PREG20
- B. Physical Abuse Report New Variable
- C. Physical Abuse Investigation New Variable
- D. Physical Abuse Caregiver New Variable
- E. Hospital Discharge Disposition Modified definition: 1 minor change to the 'D' code
- **F. ED Discharge Disposition** *Modified definition:* 1 minor change to the 'D' code
- G. Comorbidity Modified definition: CVA, ETOH, RESP, ABUSE

Retired: ASCITES, OBESE, PHRES, VAR

New Code: ADD

- H. Primary Payment Method Retired Codes: BCBS, NF, WC
- I. AIS Version New Code: 08
- J. Pre-Hospital Cardiac Arrest New Variable
- K. ICD-10 External Cause Code New Variable
- L. ICD-10 Additional External Cause Code New Variable
- M. ICD-10 Place of Occurrence External Cause Code New Variable
- N. ICD-10 Hospital Procedures New Variable
- O. ICD-10 Injury Diagnoses New Variable

2016 Change Log

- A. Triage 1 New Code: PELV
 - Suspected pelvic fractures with instability
- **B.** Alternate Home Residence Retired 1 code: FV (Foreign Visitor)
- C. Age Units 1 New Code: X (Minutes)
- **D. Systolic Blood Pressure at Assessment** (initial ED/Hosp) *Added additional information*
 - Measurement recorded must be without the assistance of CPR or any type of

mechanical chest compression device. For those patients who are receiving CPR or any type of mechanical chest compressions, report the value obtained while compressions are paused.

- **E. Pulse Rate** (initial ED/Hospital) *Added additional information*
 - Measurement recorded must be without the assistance of CPR or any type of mechanical chest compression device. For those patients who are receiving CPR or any type of mechanical chest compressions, report the value obtained while compressions are paused.
- F. Alcohol Evident Added additional information
 - Blood alcohol concentration (BAC) may be documented at any facility, unit, or setting treating this patient event.
- G. ICD-9/10 Diagnoses Added additional information
 - null value "NA" is used if not coding ICD-9/10
- H. ICD-9/10 Procedures Added additional information
 - null value "NA" is used if not coding ICD-9/10
- I. ICD-9/10 External Cause Codes— Added additional information
 - null value "NA" is used if not coding ICD-9/10
- J. ICD-10 Place of Occurrence External Cause Code— Added additional information
 - null value "NA" is used if not coding ICD10
- K. Comorbidity Conditions Added additional information
 - For any Co-Morbid Condition to be valid there must be a diagnosis noted in the patient medical record that meets the definition noted in "Glossary of Terms"

Updated definitions (see glossary of terms under Comorbidity):

ETOH DEM ABUSE

L. Hospital Complications -

Field Values

Retired:

FAIL: Graft or prosthesis or flap failure

PNEU: Pneumonia

UTI: Urinary Tract Infection

CATH: Catheter-related bloodstream infection

Added:

CAUTI: Catheter-associated urinary tract infection

CLABSI: Central line-associated bloodstream infection

VAP: Ventilator-associated pneumonia

Updated definition: ARF (acute kidney injury), OSTEO (osteomyelitis)

Changed title: "Deep Vein Thrombosis/thrombophlebitis" to: "Deep Vein Thrombosis"

Changed title: "Cardiac arrest with resuscitative efforts by healthcare provider" to:

"Cardiac arrest with CPR"

M. Body Region of Injury – Modified definition/added notes

EXT – External, burns or other trauma: Includes all superficial injuries and external burns, lacerations, contusions and abrasions, independent of their location on the body surface

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