

SECTION B: REQUIRED VARIABLES FOR DOWNLOAD TO THE STATE REGISTRY

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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 Variables:	Patient's Address, Zip Code, County and State of Residence		
Examples:	Colorado Springs Glenwood Springs	Grand Junction Fort Morgan	
	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" "Colorado Springs", and "Colorado Spgs" are considered different city names. Please be consistent in how you enter city names at your facility.		
Data Type:	Text	Format:	Length 50

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 Variables:	Patient's Address, City, County and State of Residence		
Examples:	Most places have just one 5-digit zip code: for example, the town of Ouray 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: http://zip4.usps.com/zip4/welcome.jsp		
Note:	If the street address and city are available, use the USPS website above to obtain the appropriate zip code.		
Data Type:	Text	Format:	Length 10

Patient's County of Residence (RES_COUNTY_STATE)

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

Values:

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

Note: 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".

DataType: Text **Format:** Length 3

Patient's Home Country (COUNTRY)

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

Values:

US	United States	EZ	Czech Republic	LT	Lesotho	TP	Sao Tome and Principe
MX	Mexico	DA	Denmark	LI	Liberia	SA	Saudi Arabia
CA	Canada	DJ	Djibouti	LY	Libya	SG	Senegal
AF	Afghanistan	DO	Dominica	LS	Liechtenstein	RB	Serbia
AL	Albania	DR	Dominican Republic	LH	Lithuania	SE	Seychelles
AG	Algeria	TT	East Timor	LU	Luxembourg	SL	Sierra Leone
AN	Andorra	EC	Ecuador	MK	Macedonia	SN	Singapore
AO	Angola	EG	Egypt	MI	Malawi	LO	Slovakia
AC	Antigua and Barbuda	ES	El Salvador	MY	Malaysia	SI	Slovenia
AR	Argentina	EK	Equatorial Guinea	MV	Maldives	BP	Solomon Islands
AM	Armenia	ER	Eritrea	ML	Mali	SO	Somalia
AS	Australia	EN	Estonia	MT	Malta	SF	South Africa
AU	Austria	ET	Ethiopia	RM	Marshall Islands	SP	Spain
AJ	Azerbaijan	FJ	Fiji	MR	Mauritania	CE	Sri Lanka
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
BO	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 Herzegovina	GV	Guinea	NP	Nepal	TO	Togo
BC	Botswana	GU	Guinea-Bissau	NL	Netherlands	TN	Tonga
BR	Brazil	PU	Guyana	NZ	New Zealand	TD	Trinidad and Tobago
BX	Brunei	GY	Haiti	NU	Nicaragua	TS	Tunisia
BU	Bulgaria	HA	Holy See	NG	Niger	TU	Turkey
UV	Burkina Faso	VT	Honduras	NI	Nigeria	TX	Turkmenistan
BM	Burma	HO	Hungary	NO	Norway	TV	Tuvalu
BY	Burundi	HU	Iceland	MU	Oman	TV	Tuvalu
CB	Cambodia	IC	India	PK	Pakistan	UG	Uganda
CM	Cameroon	IN	Indonesia	PS	Palau	UP	Ukraine
CV	Cape Verde	ID	Iran	PM	Panama	AE	United Arab Emirates
CT	Central African Republic	IR	Iraq	PP	Papua New Guinea	UK	United Kingdom
CD	Chad	EI	Ireland	PA	Paraguay	UY	Uruguay
CI	Chile	IS	Israel	PE	Peru	UZ	Uzbekistan
CH	China	IT	Italy	RP	Philippines	NH	Vanuatu
CO	Colombia	JM	Jamaica	PL	Poland	VE	Venezuela
CN	Colombia	JA	Japan	PO	Portugal	VM	Vietnam
CN	Comoros	JO	Jordan	QA	Qatar	YM	Yemen
CF	Congo (Brazzaville)	KZ	Kazakhstan	RO	Romania	ZA	Zambia
CG	Congo (Kinshasa)	KE	Kenya	RS	Russia	ZI	Zimbabwe
CS	Costa Rica	KR	Kiribati	RW	Rwanda	NA	Not applicable
IV	Cote d'Ivoire	KN	Korea, North	SC	Saint Kitts and Nevis	UNK	Unknown
HR	Croatia	KS	Korea, South	ST	Saint Lucia		
CU	Cuba	KU	Kuwait	VC	Saint Vincent & Grenadin		
CY	Cyprus	KG	Kyrgyzstan	WS	Samoa		
		LA	Laos	SM	San Marino		
		LG	Latvia				
		LE	Lebanon				

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

Data Type: Text

Format: Length 3

Patient's Date of Birth (DOB)

Definition:	Patient's date of birth.		
Related Variables:	Patient's Age		
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 Variables:	Age Units		
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		
Related Variables:	Patient's Age (with Variable Units)		
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.		
Data Type:	Text	Format:	Length 1

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 mile-markers or cross streets.

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

Data Type: Text **Format:** Length 255

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

Related Variables: Locale; Injury County and State



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, 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.

Data Type: Text **Format:** Length 10

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



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

Data Type: Text **Format:** Length 5

Injury Location County (COUNTY_STATE)

Definition: The Colorado county where the injury incident occurred.

Values:

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
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
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

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".

Data Type: Text **Format:** **Length:** 3

Incident Country (INJURY_COUNTRY)

Definition: The country where the injury incident occurred.

Values:

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

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

DataType: Text **Format:** Length 3

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, 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 pre-school 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 Variables:

Locale

E849 "Place of Occurrence" codes:

- HOME = E849.0
- FARM = E849.1
- RES = E849.7
- REC = E849.4
- STREET = E849.5
- HIGH = 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**.

Data Type: Text

Format: Length 20

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.

Data Type: Text **Format:** Length 5

Patient's Occupation (OCCUPATION)

Definition: The patient's occupation.

Values:

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, Media	RETIRED= Retired
FARM = Farming/Fishing/Forestry	SALE = Sales and Related
FOOD = Food Preparation/Serving	SCI = Life/Physical/Social Science
HEALTH= Healthcare Practitioners/ Technical	STUDENT= Student
HS = Healthcare Support	TRANS= Transportation and Material Moving
LEGAL= Legal Occupations	NA = Not applicable
MAIN = Building and Grounds Cleaning/Maintenance	UNK = Unknown or not documented



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.

Data Type: Text **Format:** Length 10

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, 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"

Data Type: Text

Format: Any Length

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: 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/>.

Data Type: Text

Format: Length 7

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

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.

Data Type: Text

Format: Length 5

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 Variables: ICD9 codes
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.

Data Type: Text **Format:** Length 5

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

Airbag Deployment (AIRBAG)

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

Values: N = Airbag not deployed
F = Airbag deployed, Front
S = 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".

Data Type: Text **Format:** Length 6

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 Variables: Alcohol Evident; Breathalyzer Results

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
MULT	= Positive for more than one drug
NEG	= Results were negative
NOTDONE	= Tox screen not done
NA	= Not applicable
NOT	= Not documented
UNK	= Unknown

This variable will NO LONGER BE INCLUDED in the Colorado Trauma Registry beginning in 2011.

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.

Data Type: Text **Format:** Length 3

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 Variables: Triage Codes
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.

Data Type: Text **Format:** Length 5

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; patient 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 died 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 Variables: Outcome
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
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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 Variables: ED arrival date/time, ED discharge date/time

Data Type: Text **Format:** Length 3

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 Variables:	Hospital Admission Time, ER Disposition, Inpatient Disposition		
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 Variables:	Hospital Admission Date, ER Disposition, Inpatient Disposition		
Notes:	This variable allows computation of time intervals including Length of Hospital Stay.		
Data Type:	Time	Format:	hh:mm

ICU Days (TOTAL_DAYS_ICU_)

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

Values: 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: The number of days

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 the hospital? (Applies only to patients who were admitted to the hospital; does not apply to ED-only patients)

Values:

ACUTE = Discharged/transferred to another acute care hospital
AMA = Patient left the hospital against medical advice
D = Patient died after admission to the hospital (NOT in the ED)
DSS = Discharged to the Department of Social Services
HH = Discharged to home under care of a Home Health Agency (any outside agency that provides services after discharge, such as visiting nurse services)
HOME = Discharged to home/any residence with no home health services
HOSPICE = Discharged/transferred to hospice care
ICF = Discharged/transferred to an Intermediate Care Facility
JAIL = Discharged to a jail, prison, or other detention facility
LTAC = Discharged/transferred to a Long-term acute care
NHOME = Patient was discharged to a nursing home or other long-term residential care facility
PSYCH = Discharged to inpatient psychiatric care. This may be another facility or a division of the same facility.
REHAB = Discharged/transferred to rehabilitation facility
SNF = Discharged/transferred to a Skilled Nursing Facility
OTHER = Other
NA = Not applicable (patient was never admitted as an inpatient; patient was an ED-only patient)
UNK = Unknown or not documented

Related Variables: Outcome
Emergency Department Disposition
Arrival at Trauma Center Date & Time, Admit Date & Time, Discharge Date & Time

Examples: If Outcome = "D" and the patient died after admission to the hospital, this 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.

Data Type: 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 Variables: ICD-9 Codes
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 Variables: Diagnosis Description
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: 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 described on page 52. 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

AIS Version (SEVERITY_METHOD)

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

Values: 05 = AIS 2005
NA = Not applicable
UNK = Unknown or not documented

Related Variables: AIS Code (full code)
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 Variables: AIS Severity Level
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	= Current abuse of prescription or illicit drugs (CO) NEW
ANGINA	= History of angina within past 1 month (NTDS)
ANOM	= Congenital anomalies (NTDS)
ASCITES	= Ascites within 30 days (NTDS)
ASTHMA	= Asthma (CO)
CA	= Disseminated cancer (NTDS)
CARDIAC	= Any history of cardiac disease (e.g., hx of MI more than 6 months ago, cardiac arrhythmias, a-fib, hx of CABG or stent placement, pacemaker) (CO) NEW
CHEMO	= Chemotherapy for cancer within 30 days (NTDS)
CHF	= Congestive heart failure (NTDS)
CIRRH	= Cirrhosis (NTDS) NEW
COAG	= Bleeding disorder (NTDS) or on anticoagulants (CO)
CVA	= CVA/residual neurological deficit (NTDS)
DEP	= Functionally dependent health status (NTDS)
DIAL	= Currently requiring or on dialysis (NTDS)
DM	= Diabetes mellitus controlled by oral meds (Modified NTDS)
DNR	= Do not resuscitate (DNR) status (NTDS)
ETOH	= Alcohol abuse or alcoholism (NTDS)
HTN	= Hypertension requiring medication (NTDS)
IDDM	= Insulin dependent diabetes mellitus (CO)
IMMUNE	= Immunocompromised excluding steroid use (modified CO)
LIVER	= Liver disease without ascites (modified CO)
MI	= History of myocardial infarction within past 6 months (NTDS)
NEURO	= Neurologic disorder (Parkinson's, seizures, multiple sclerosis, etc.) (CO)
OBESE	= Obesity based on BMI \geq 40 (NTDS)
PAIN	= Chronic pain (CO)
PREG	= Pregnancy (CO)
PREM	= Prematurity (NTDS)
RAP	= History of revascularization or amputation for PVD (NTDS)
RENAL	= Renal disease/insufficiency not requiring dialysis (modified CO)
RESP	= Respiratory disease (e.g., severe chronic lung disease, such as COPD, emphysema, chronic bronchitis or COPD, cystic fibrosis) (NTDS)
SCI	= Pre-existing spinal cord injury (CO)
SENS	= Impaired sensorium (NTDS), including dementia, Alzheimer's, chronic mental illness, mental retardation, attention disorders
SMOKER	= Current smoker (i.e., smoked cigarettes in the year prior to admission) (NTDS)
STEROID	= Steroid use (NTDS), oral or parenteral, in the 30 days prior to injury for a chronic medical condition. Does not include steroids received topically or by inhalation
SURG	= History of any type of surgery in the past 3 weeks (CO) NEW

VAR = Esophageal varices (NTDS)
OTHER = Other (a co-morbidity not mentioned above)

NA = Not applicable (use for patients with no known co-morbid conditions)

UNK = Unknown or not documented

Examples:

CHF = Congestive Heart Failure

Includes congestive heart failure, left heart failure and pulmonary edema associated with heart disease. This category DOES NOT INCLUDE patients who develop heart failure or pulmonary edema after injury.

COPD = Chronic Obstructive Pulmonary Disease

Includes chronic bronchitis, emphysema, asthma, bronchiectasis, extrinsic allergic alveolitis, and other disorders resulting in chronic airway obstruction.

COAG = Coagulation defects resulting from a congenital bleeding disorder (hemophilia), liver disease or anti-coagulant medications. Includes any pre-existing condition resulting in a prolonged PT, PTT or bleeding time (twice the normal value as the individual facility's lab standard). This includes congenital coagulation defects/deficiencies (hemophilia A, hemophilia B, factor VIII, IX, XI or other clotting factor disorders, von Willebrand's disease, and hemorrhagic disorders due to circulating anticoagulants), acquired coagulation factor deficiency due to liver disease or vitamin K deficiency, and purpura or other hemorrhagic conditions (allergic purpura, platelet defects or primary thrombocytopenia). Also included are acquired coagulopathies resulting from liver disease or medications (coumadin, Plavix or other anticoagulants, etc.) This category DOES NOT INCLUDE patients who are on chronic aspirin therapy or who develop coagulation defects (such as DIC) after injury.

RENAL = Renal failure

Includes patients with existing renal disease (creatinine > 2.5). Includes chronic renal failure and renal sclerosis. This category DOES NOT INCLUDE patients who develop renal failure after injury.

LIVER = Liver disease

Includes chronic liver disease and cirrhosis, alcoholic fatty liver, acute alcoholic hepatitis, alcoholic cirrhosis, alcoholic liver damage, chronic hepatitis, biliary cirrhosis, other chronic nonalcoholic liver disease or cirrhosis. This category DOES NOT INCLUDE patients who develop liver failure after injury.

PREG = Pregnancy

IDDM = Insulin-dependent Diabetes Mellitus

Includes Type 1 diabetes with or without long-term complications. This category DOES NOT INCLUDE patients who become insulin-dependent after injury.

ETOH = Alcohol abuse
Includes chronic alcohol abuse or alcohol dependence.

IMMUNE = Immunocompromised
Includes HIV/AIDS, on steroids or other medications that effect immune status, transplant recipient.

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



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

Definitions for some of these co-morbidities can be found in the 2011 National Trauma Data Standard data dictionary in Appendix 4: Glossary of Terms (see pages 133-140 at http://www.ntdsdictionary.org/dataElements/documents/NTDS2011_Final3.pdf).

Corresponding ICD9-CM codes for some of these co-morbidities include:

CHF (428.0, 428.1, 428.9)
COPD and allied conditions (491-496)
COAG (congenital) (286, 287, excluding 286.6 and 287.4)
(acquired) (286.6, V58.61)
RENAL (585, 587)
LIVER (571)
PREG (V22, V23)
IDDM (250)
ETOH (303.9)

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 = \geq 20% total body surface area burn or burns involving the face, airway, hands, feet or genitalia

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).

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

EXTRIC = Prolonged extrication time (>20 minutes)

FALL = A fall from a height \geq 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.

ELEC = High energy electrical injury

EXTREM=Crushed, degloved or mangled extremity

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

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

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".

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).

Data Type:	Text	Format:	Length 20
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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

Systolic Blood Pressure at Assessment (SYS_BP)

Definition: Systolic Blood Pressure

Values: Min = 0
Max = 300
NA = Not applicable
UNK = Unknown or not documented

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

Data Type: Text **Format:** Length 3

Glasgow Verbal Score at Assessment (VERBAL_RESPONSE)

Definition: The verbal component of the Glasgow Coma Scale

Values: For patients >5 years old:

- 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
- UNK = Unknown or not documented

For patients 2-5 years old:

- 1 = None
- 2 = Grunts
- 3 = Cries and/or screams
- 4 = Inappropriate words
- 5 = Appropriate words
- 9 = Not assessed
- NA = Not applicable
- UNK = Unknown or not documented

For patients 0-23 months:

- 1 = None. No vocal response
- 2 = Inconsolable, agitated
- 3 = Inconsistently consolable, moaning
- 4 = Cries but is consolable, inappropriate interactions
- 5 = Smiles, oriented to sounds, follows objects, interacts
- 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.

Data Type: Text **Format:** Length 3

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:

Data Type: Text **Format:** Length 10

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 Variables: If the patient was transported by ground ambulance, helicopter, or fixed 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 Notification Date (NOTIFY_DATE)

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

Related Variables: Transport Agency Notification Time

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 Variables: Transport Agency Notification Date

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

Transport Agency Mobilization Date (DATE_OUT)

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

Related Variables: Transport Agency Mobilization Time

Examples: 04/19/2007

Notes: Allows computation of time intervals.

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

Transport Scene Departure Date (DEPARTURE_DATE)

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

Related Variables: Transport Scene Departure Time

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 Variables: Transport Scene Departure Date

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

Transport Destination Arrival Date (DESTINATION_ARRIVAL_DATE)

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

Related Variables: Transport Destination Arrival Time

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 it's destination

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

Related Variables: Transport Destination Arrival Date

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

Date of Arrival at the Referring Facility (REFERRING_ARRIVAL_DATE)

Definition:	The date the patient arrived at the referring facility.		
Related Variables:	Time of Arrival at the Referring Facility		
Examples:	04/23/2007		
Notes:	Allows computation of time intervals.		
Data Type:	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 Variables:	Date of Arrival at the Referring Facility		
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 Variables:	Referring Facility Discharge Time		
Examples:	03/31/2007		
Notes:	Allows computation of time intervals.		
Data Type:	Date	Format:	mm/dd/yyyy

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 Variables: Transferring Facility Number

Data Type: Text **Format:** Length 10

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 Pericardiectomy
- 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 Laparotomy
- 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 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
 IVC filter
 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 *

Data Type: Text

Format:

Length 6

Hospital Complications (COMP_TYPE)

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

Values:

ACS	= Abdominal compartment syndrome
ABD	= Abdominal fascia left open
ARF	= Acute renal failure
ARDS	= Acute respiratory distress syndrome (ARDS)
BLD	= Bleeding
CATH	= Catheter-related bloodstream infection NEW
CPR	= Cardiac arrest with CPR
COAG	= Coagulopathy
COMA	= Coma
CVA	= Stroke or CVA
DECUB	= Decubitus ulcer
DISRUPT	= Wound disruption
DVT	= Deep vein thrombosis (DVT) or thrombophlebitis
ECS	= Extremity compartment syndrome
FAIL	= Graft or prosthesis or flap failure
ICP	= Intracranial pressure
ICU	= Unplanned return to the ICU NEW
INTUB	= Unplanned intubation
MI	= Myocardial infarction
OR	= Unplanned return to the OR NEW
ORGAN	= Organ or space surgical site infection
OSTEO	= Osteomyelitis NEW
PNEU	= Pneumonia
PE	= Pulmonary embolism
SEPSIS	= Systemic sepsis
SEVSEP	= Severe sepsis NEW
SUP	= Superficial surgical site infection
SURGINF	= Deep surgical site infection
UTI	= Urinary Tract Infection NEW
WITH	= Drug or alcohol withdrawal syndrome
OTHER	= Other complication not listed above
NA	= Not applicable (use for patients with no complications)
UNK	= Unknown or not documented



Notes: Allows data to be used to characterize patients and hospital outcomes based upon the presence (and type) or hospital complication.

Definitions for some of these co-morbidities can be found in the 2011 National Trauma Data Standard data dictionary in Appendix 4: Glossary of Terms (see pages 133-140 at http://www.ntdsdictionary.org/dataElements/documents/NTDS2011_Final3.pdf).

Data Type: Text **Format:** Length 10

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:

1. 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.
2. 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.
3. The patient was admitted as an inpatient at another facility, was discharged, then came to your facility at a later time and was admitted.
4. 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/re-admissions 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

Values: A list of facilities and codes is found in **Appendix I**.
NA = Not applicable
UNK = Unknown or not documented

Data Type: 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

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