



Preparing Your Data: Nonfatal ED Visits (General Injury)

Step 1: Prepare the basic dataset

- Use calendar year of data based on date of ED discharge.
- Only include data from nonfederal, acute care-affiliated facilities; exclude Veterans Affairs (VA) and other federal hospitals, rehabilitation centers, and psychiatric hospitals.
- Include ED visits for jurisdiction residents only. If data on out-of-jurisdiction ED visits for jurisdiction residents are available, please include them.
- **Exclude deaths.**
- If necessary, exclude records of patients that are seen in the ED and then admitted to the hospital. For most jurisdictions, these records are not included in their ED data.

Step 2: Create an injury subset

Include records that have one of the following diagnosis codes (Table 1) **in any field** **OR** one of the following external cause of injury codes (Table 2) **in any field**.

Table 1: Diagnosis codes*

S00-S99	Anatomic injuries
T07-T34	Foreign bodies, burns, corrosions, frostbite
T36-T50 with a <u>6th character</u> of 1, 2, 3, or 4 Note: Include T36.9, T37.9, T39.9, T41.4, T42.7, T43.9, T45.9, T47.9, and T49.9 with a <u>5th character</u> of 1, 2, 3, or 4 (Intent information for these codes is included in the 5 th character and not the 6 th)	Poisoning by drugs, medicaments, and biological substances (Includes accidental, intentional self-harm, assault, and underdetermined intents; Excludes adverse effects and underdosing)
T51-T65	Toxic effects of substances nonmedicinal as to source
T66-T76	Other and unspecified effects of external causes
T79	Certain early complications of trauma, not elsewhere classified
O9A.2-O9A.5	Traumatic injuries and abuse complicating pregnancy, childbirth, and the puerperium
T84.04**	Periprosthetic fracture around internal prosthetic joint
M97**	Periprosthetic fracture around internal prosthetic joint

*7th character of A, B, C, or missing (reflects initial encounter, active treatment). T30-T32 do not have a 7th character.

** T84.04 was retired and replaced by M97 in the FY2017 version of ICD-10-CM which went into effect on Oct 1, 2016.

Table 2: External cause of injury codes*

V00-V99	Transport accidents
W00-X58	Other external causes of accidental injury
X71-X83	Intentional self-harm
X92-Y09	Assault
Y21-Y33	Event of undetermined intent
Y35-Y38	Legal intervention, operations of war, military operations, and terrorism

*7th character of A or missing (reflects initial encounter, active treatment)

Step 3: Check the data quality

- Recommend using the measures in the [“Getting to Know Your Data and Its Quality”](#) section of the CSTE ICD-10-CM Injury Surveillance Toolkit to conduct further data quality checks.
- Calculate the completeness of external cause of injury coding in the ED visit data.

Percentage of nonfatal injury ED visits with external cause of injury coding =

*[All ED visit records with an injury diagnosis in any field (Table 1) **OR** an external cause of injury code in any field (Table 2)]*

***AND** a code containing external cause of injury information (Table 3) in any diagnosis or external cause of injury field*

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(All ED visit records with an injury diagnosis in any field (Table 1) OR an external cause of injury code in any field (Table 2)

x 100%

Table 3: Codes that contain external cause of injury information (The subset of T, V, W, X, and Y codes* found in the ICD-10-CM external cause matrix)

V00-V99	Transport accidents
W00-X58	Other external causes of accidental injury
X71-X83	Intentional self-harm
X92-Y09	Assault
Y21-Y33	Event of undetermined intent
Y35-Y38	Legal intervention, operations of war, military operations and terrorism
T14.91	Suicide attempt
T15-T19	Effects of foreign body entering through natural orifice
T36-T50 with a <u>6th character</u> of 1, 2, 3, or 4 Note: Include T36.9, T37.9, T39.9, T41.4, T42.7, T43.9, T45.9, T47.9, and T49.9 with a <u>5th character</u> of 1, 2, 3, or 4 (Intent information for these codes is included in the 5 th character and not the 6 th)	Poisoning by drugs, medicaments, and biological substances
T51-T65	Toxic effects of substances chiefly non-medicinal as to source
T71	Asphyxiation
T73	Effects of deprivation
T74, T76	Adult and child abuse, neglect, and other maltreatment, confirmed or suspected
T75.0, T75.1, T75.2, T75.3	Effects of lightning, unspecified effects of drowning, effects of vibration, motion sickness

*7th character of A or missing (reflects initial encounter, active treatment)

Step 4: Calculate the specific indicators

- Consult the individual indicator pages in the [“General Injury Indicators”](#) section of the CSTE ICD-10-CM Injury Surveillance Toolkit for details on how to calculate the respective indicator.
- Nonfatal ED visit rates should be age-adjusted to the 2000 United States standard population using the NCHS population distribution.^{2,11}