

**SUPPLEMENTARY BOX. Diagnostic codes\* and free-text reason-for-visit (chief complaint) search terms included in categorization† for emergency department visits associated with firearm injuries — National Syndromic Surveillance Program**

Diagnosis Codes	Chief Complaint Terms	Negations
<p><b>ICD-9-CM Codes</b></p> <p>E922(.0-.3, .8-.9) Accident cause by firearm  E955(.0-.4, .9) Suicide and self-inflicted injury by firearms  E965(.0-.4) Assault by firearms  E970 Injury due to legal intervention by firearms  E979.4 Terrorism involving firearms  E985(.0-.4) Injury by firearms, undetermined intent</p> <p><b>ICD-10-CM Codes</b></p> <p>W32 Accidental handgun discharge and malfunction  - W32.0 Accidental handgun discharge  - W32.1 Accidental handgun malfunction</p> <p>W33 Accidental rifle, shotgun and larger firearm discharge and malfunction  W33.0 Accidental rifle, shotgun and larger firearm discharge  - W33.00 Accidental discharge of unspecified larger firearm  - W33.01 Accidental discharge of shotgun  - W33.02 Accidental discharge of hunting rifle  - W33.03 Accidental discharge of machine gun  - W33.09 Accidental discharge of other larger firearm</p> <p>W33.1 Accidental rifle, shotgun and larger firearm malfunction  - W33.10 Accidental malfunction of unspecified larger firearm  - W33.11 Accidental malfunction of shotgun  - W33.12 Accidental malfunction of hunting rifle  - W33.13 Accidental malfunction of machine gun  - W33.19 Accidental malfunction of other larger firearm</p> <p>W34 Accidental discharge and malfunction from other and unspecified firearms and guns  - W34.0 Accidental discharge from other and unspecified firearms and guns  - W34.00 Accidental discharge from unspecified firearms or gun  - W34.09 Accidental discharge from other specified firearms</p> <p>W34.1 Accidental malfunction from other and unspecified firearms and guns  - W34.10 Accidental malfunction from unspecified firearms or gun  - W34.19 Accidental malfunction from other specified</p>	<p>GSW  Gunshot (and common spellings and misspellings)  Buckshot  Revolver  Rifle  Shotgun  Firearm  Pistol  Handgun  Been shot  I was shot  I got shot  Combination of hit, ricochet, graze with bullet  Gun and wound</p>	<p>Z51.89 or Z5189</p> <p>Encounter for other specified after care  No gun  Remove gun  Heard or hearing gun  Hit head  Kickback  Water gun  Pellet  BB gun (and common spellings and misspellings)  Rubber bullet  Paint ball gun  Nerf gun  Air gun  Spring gun  Pistol whip  Nail gun  Staple gun  Stun, laser, or Taser gun  Struck or hit with, in combination with gun or pistol  Bloodshot  Scope  Fake  Allergy shot  Injection  Follow up  Chronic  Wound check, care, recheck, or infection  Drainage  Gswel or Gswol  GSW, gunshot, or bullet and history, ago, past, prior, previous, or old</p>

<p>firearms</p> <p>X72 Intentional self-harm by handgun discharge</p> <p>X73 Intentional self-harm by rifle, shotgun and larger firearm discharge</p> <ul style="list-style-type: none"> <li>- X73.0 Intentional self-harm by shotgun discharge</li> <li>- X73.1 Intentional self-harm by hunting rifle discharge</li> <li>- X73.2 Intentional self-harm by machine gun discharge</li> <li>- X73.8 Intentional self-harm by other larger firearm discharge</li> <li>- X73.9 Intentional self-harm by unspecified larger firearm discharge</li> </ul> <p>X74 Intentional self-harm by other and unspecified firearm and gun discharge</p> <ul style="list-style-type: none"> <li>- X74.8 Intentional self-harm by other firearm discharge</li> <li>- X74.9 Intentional self-harm by unspecified firearm discharge</li> </ul> <p>X93 Assault by handgun discharge</p> <p>X94 Assault by rifle, shotgun and larger firearm discharge</p> <ul style="list-style-type: none"> <li>- X94.0 Assault by shotgun</li> <li>- X94.1 Assault by hunting rifle</li> <li>- X94.2 Assault by machine gun</li> <li>- X94.8 Assault by other larger firearm discharge</li> <li>- X94.9 Assault by unspecified larger firearm discharge</li> </ul> <p>X95 Assault by other and unspecified firearm and gun discharge</p> <ul style="list-style-type: none"> <li>- X95.8 Assault by other firearm discharge</li> <li>- X95.9 Assault by unspecified firearm discharge</li> </ul> <p>Y22 Handgun discharge, undetermined intent</p> <p>Y23 Rifle, shotgun and larger firearm discharge, undetermined intent</p> <ul style="list-style-type: none"> <li>- Y23.0 Shotgun discharge, undetermined intent</li> <li>- Y23.1 Hunting rifle discharge, undetermined intent</li> <li>- Y23.2 Military firearm discharge, undetermined intent</li> <li>- Y23.3 Machine gun discharge, undetermined intent</li> <li>- Y23.8 Other larger firearm discharge, undetermined intent</li> <li>- Y23.9 Unspecified larger firearm discharge, undetermined intent</li> </ul> <p>Y24 Other and unspecified firearm discharge, undetermined intent</p> <ul style="list-style-type: none"> <li>- Y24.8 Other firearm discharge, undetermined intent</li> </ul>		
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- Y24.9 Unspecified firearm discharge, undetermined intent

Y35.0 Legal intervention involving firearm discharge

Y35.00 Legal intervention involving unspecified firearm discharge

- Y35.001 Legal intervention involving unspecified firearm discharge, law enforcement official injured

- Y35.002 Legal intervention involving unspecified firearm discharge, bystander injured

- Y35.003 Legal intervention involving unspecified firearm discharge, suspect injured

Y35.01 Legal intervention involving injury by machine gun

- Y35.011 Legal intervention involving injury by machine gun, law enforcement official injured

- Y35.012 Legal intervention involving injury by machine gun, bystander injured

- Y35.013 Legal intervention involving injury by machine gun, suspect injured

Y35.02 Legal intervention involving injury by handgun

- Y35.021 Legal intervention involving injury by handgun, law enforcement official injured

- Y35.022 Legal intervention involving injury by handgun, bystander injured

- Y35.023 Legal intervention involving injury by handgun, suspect injured

Y35.09 Legal intervention involving other firearm discharge

- Y35.091 Legal intervention involving other firearm discharge, law enforcement official injured

- Y35.092 Legal intervention involving other firearm discharge, bystander injured

- Y35.093 Legal intervention involving other firearm discharge, suspect injured

Y38.4 Terrorism involving firearms

Y38.4X Terrorism involving firearms

- Y38.4X1 Terrorism involving firearms, public safety official injured

- Y38.4X2 Terrorism involving firearms, civilian injured

- Y38.4X3 Terrorism involving firearms, terrorist injured

**SNOMED Codes**

41430008, 56768003, 63409001, 69861004, 77301004, 86122002, 111050005, 219257002, 283545005, 218081007, 218086002, 218082000, 218087006, 218088001, 269796009, 242869008, 219199009, 219200007, 219201006, 219204003, 219205002, 219203009, 219198001, 219142001, 219143006, 219144000, 219145004, 219146003, 287184008, 287193009

**Abbreviations:** ICD-9-CM = *International Classification of Disease, Ninth Revision, Clinical Modification*; ICD-10-CM = *International Classification of Disease, Tenth Revision, Clinical Modification*; SNOMED = Systematized Nomenclature of Medicine.

\* Both discharge diagnosis codes (ICD-9-CM and ICD-10-CM, and SNOMED codes and chief complaint free text with exclusions are used in the definition. If discharge diagnosis codes indicate a firearm injury occurred, the emergency department visit is automatically included in the syndrome. If there is no discharge diagnosis code, the visit is only included if the chief complaint text has a firearm injury-related term. In addition, the exclusions are only applied to the chief complaint text when a discharge diagnosis code is not present.

† This categorization was developed and validated by CDC in partnership with state, tribal, local, and territorial health departments to assist with rapid detection of potential initial emergency department visits for a firearm injury. The following injury intents due to firearms are included in this categorization: unintentional, intentional self-directed, assault, undetermined intent, legal intervention, and terrorism. This aims to capture only initial encounters for a firearm injury and negate subsequent encounters or sequelae.