

**Appendix 2. How to access CDC Firearm Injury Version 1 definition in ESSENCE**  
**CDC Firearm Surveillance Through Emergency Rooms**  
*(CDC-RFA-CE20-2005)*

In collaboration with CDC’s National Syndromic Surveillance Program and syndromic surveillance analysts and epidemiologists in state and local health departments, CDC’s National Center for Injury Prevention and Control developed a syndromic surveillance query for identifying suspected emergency department visits related to firearm injuries. This query, available on NSSP–ESSENCE, can be used to complement efforts by states and health jurisdictions to analyze these types of injuries and identify patterns.

The “CDC Firearm Injury Version 1” query accesses Chief Complaint and Discharge Diagnosis fields to identify first-time visits for firearm-related injuries. The query excludes subsequent visits related to the initial firearm injury or its sequelae. The query searches for the following terms, including common spellings and misspellings: GSW; gunshot; buckshot; firearm; handgun; pistol; revolver; rifle; shotgun; been shot; I was shot; I got shot; gun in combination with wound; and the terms hit, ricochet, or graze in combination with the term bullet. The query also searches for ICD-10-CM, ICD-9- CM, and SNOMED diagnosis codes for firearm injuries for the following types of intent: unintentional, intentional self-harm, assault, legal intervention, terrorism, and undetermined intent. In addition, the query contains negation terms that, for example, exclude visits for injuries related to water, pellet, BB, rubber, paint, nerf, air, spring, nail, staple, stun, laser, or Taser guns. While not intended to provide prevalence estimates, syndromic surveillance coordinators and epidemiologists at national, state, and local levels can use this query to understand trends and clustering of visits for firearm-related injury.

ESSENCE users can find the CC and DD Category for self-harm by clicking on the ESSENCE Query Portal, then scrolling the left pane until the CC and DD Category is found in the list of Available Query Fields. Select CC and DD Category to view available categories in the central pane of the Query Wizard. Then select “CDC Firearm Injury V1” from the list to use it in your query. More free text queries as CC and DD Categories related to other firearm injury indicators, including intentional firearm injury, unintentional firearm injury, and assault-related firearm injury, will be published in ESSENCE and shared with recipients in 2020. The query term for the “CDC Firearm Injury V1” definition as ESSENCE syntax is below:

CCDD Terms:

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(,^(^[/ ]W3[23]^,andnot,(^[/ ]W3[23]__[DS]^,or,^[^[/ ]W3[23].__[DS]^),),or,(^[^[/ ]W34[01]][09]^,andnot,(^[^[/ ]W34[01]][09]__[DS]^,or,^[^[/ ]W34[01]][09].__[DS]^),),or,(^[^[/ ]X7[23]^,andnot,(^[^[/ ]X7[23]__[DS]^,or,^[^[/ ]X7[23].__[DS]^),),or,(^[^[/ ]X74[89]^,andnot,(^[^[/ ]X74[89]__[DS]^,or,^[^[/ ]X74[89].__[DS]^),),or,(^[^[/ ]X9[34]^,andnot,(^[^[/ ]X9[34]__[DS]^,or,^[^[/ ]X9[34].__[DS]^),),or,(^[^[/ ]X95[89]^,andnot,(^[^[/ ]X95[89]__[DS]^,or,^[^[/ ]X95[89].__[DS]^),),or,(^[^[/ ]Y2[2-3]^,andnot,(^[^[/ ]Y2[2-3]__[DS]^,or,^[^[/ ]Y2[2-3].__[DS]^),),or,(^[^[/ ]Y24[89]^,andnot,(^[^[/ ]Y24[89]__[DS]^,or,^[^[/ ]Y24[89].__[DS]^),),or,(^[^[/ ]Y350[0129]^,andnot,^[^[/ ]Y350[0129]__[DS]^),or,(^[^[/ ]Y35.0[0129]^,andnot,^[^[/ ]Y35.0[0129]__[DS]^),or,(^[^[/ ]Y38.4^,andnot,^[^[/ ]Y38.4__[DS]^),or,(^[^[/ ]Y384^,andnot,^[^[/ ]Y384__[DS]^),or,^[^[/ ]E92.2[012389]^,or,^[^[/ ]E922[012389]^,or,^[^[/ ]E95.5[012349]^,or,^[^[/ ]E955[012349]^,or,^[^[/ ]E96.5[01234]^,or,^[^[/ ]E965[01234]^,or,^[^[/ ]E97.0^,or,^[^[/ ]E970^,or,^[^[/ ]E979.4^,or,^[^[/ ]E9794^,or,^[^[/ ]E98.5[01234]^,or,^[^[/ ]E985[01234]^,or,^[^[/ ]41430008^,or,^[^[/ ]56768003^,or,^[^[/ ]63409001^,or,^[^[/ ]69861004^,or,^[^[/ ]77301004^,or,^[^[/ ]86122002^,or,^[^[/ ]111050005^,or,^[^[/ ]218081007^,or,^[^[/ ]219142001^,or,^[^[/ ]219143006^,or,^[^[/ ]219144000^,or,^[^[/ ]219145004^,or,^[^[/ ]219146003^,or,^[^[/ ]219257002^,or,^[^[/ ]242869008^,or,^[^[/ ]283545005^,or,^[^[/ ]
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]287184008^,or,^[/ ]287193009^,or,^[/ ]269796009^,or,^[/ ]217903007^),or,(, (^ gsw  
^,or,^gunshot^,or,^gun shot^,or,^gunshout^,or,^gunshoot^,or,^buckshot^,or,^buck  
shot^,or,^revolver^,or,^rifle^,or,^rifle^,or,^shotgun^,or,^shot gun^,or,^firearm^,or,^fire  
arm^,or,^pistol^,or,^handgun^,or,^hand gun^,or,^been shot^,or,^I was shot^,or,^I got  
shot^,or,( (^hit^,or,^ricochet^,or,^graze^),and,( ^bullet^),),or,( (^gun^,and,^wound^),),andnot,( ^no  
gun^,or,^remove gun^,or,^heard gun^,or,^hearing gun^,or,^hit head^,or,^hit my  
head^,or,^kickback^,or,^kick back^,or,^kicked back^,or,^water  
gun^,or,^watergun^,or,^pelle^,or,^pellt^,or,^ bb ^,or,^bb^,or,^bebe gun^,or,^bb gun^,or,^bbgun^,or,^b  
b gun^,or,^bibi gun^,or,^bi bi gun^,or,^bb pellet^,or,^bee bee^,or,^beebee^,or,^beebe^,or,^rubber  
bullet^,or,^paint^,or,^nerf^,or,^nurf^,or,^airgun^,or,^air gun^,or,^airsoft^,or,^air  
soft^,or,^spring^,or,^pistol whip ^,or,^pistol whipped^,or,^pistol whipping^,or,( ^nail^,andnot,^damage  
to nail^),or,^nailgun^,or,^nail gun^,or,^staplegun^,or,^staple  
gun^,or,^stun^,or,^ta[sz]er^,or,^la[sz]er^,or,^bloodshot^,or,^blood  
shot^,or,^scope^,or,^fake^,or,^allergy shot^,or,^injection^,or,^follow-up^,or,^follow  
up^,or,^followup^,or,^chronic^,or,( ^wound^,and,( ^check^,or,^care^,or,^recheck^,or,^infection^,or,^in  
fected^),),or,^drainage^,or,^gswel^,or,^gswol^,or,( (^ gsw ^,or,^gunshot^,or,^gun  
shot^,or,^bullet^),and,( ^hx^,or,^history^,or,^history of^,or,( ^ago^,andnot,^minutes  
ago^),),or,^past^,or,^prior^,or,^previous^,or,^old^),),or,^Z51.89^,or,^Z5189^),)