

**CDC Intentional Firearm Injury v1
Definition Factsheet & Technical Brief**

Description: Created by partners in the CDC's National Center for Injury Prevention and Control to support states and jurisdictions to query visits related to an initial encounter of an intentional self-directed firearm injury, or a self-harm injury from a firearm.

New or Revised Definition: New

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Table 1. Inclusion and exclusion terms.

Terms	Description
<i>Inclusion</i>	
International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM)	
X72	Intentional self-harm by handgun discharge
X73	Intentional self-harm by rifle, shotgun and larger firearm discharge
X74.8	Intentional self-harm by other firearm discharge
X74.9	Intentional self-harm by unspecified firearm discharge
International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM)	
E955.0	Suicide and self-inflicted injury by handgun
E955.1	Suicide and self-inflicted injury by shotgun
E955.2	Suicide and self-inflicted injury by hunting rifle
E955.3	Suicide and self-inflicted injury by military firearms
E955.4	Suicide and self-inflicted injury by other and unspecified firearm
E955.9	Suicide and self-inflicted injury by firearms and explosives, unspecified
SNOMED Concepts	
219142001	Suicide or self-inflicted injury by firearms and explosives
219143006	Suicide or self-inflicted injury by handgun
219144000	Suicide or self-inflicted injury by shotgun
219145004	Suicide or self-inflicted injury by hunting rifle
219146003	Suicide or self-inflicted injury by military firearm
287184008	Attempted suicide - firearms
287193009	Suicide - firearms
Chief Complaint – Nested Together with AND: Suicide/Self-Harm Intent Terms AND Firearm Terms	
ATTEMPT	
TRY	
TRIED TO	

Terms	Description
INTENTIONAL	
KILL	
END^LIFE	
SUICIDE	
SUIC	
SUCI	
SUSCI	
SUISID	
SELF	
INFLICT	
Chief Complaint – Firearm Terms Required with Suicide/Self-Harm Intent Terms	
gsw	
gunshot	
gun shot	
gunshout	
gunshoot	
buckshot	
buck shot	
revolver	
rifle	
rifle	
shotgun	
shot gun	
firearm	
fire arm	
pistol	
handgun	
hand gun	
been shot	
I was shot	
I got shot	
Chief Complaint – Nested Together with AND: Hit/Ricochet/Graze AND Bullet	
hit	
ricochet	
graze	

Terms		Description
bullet		
Chief Complaint – Nested Together with AND: Gun AND Wound		
gun		
wound		
<i>Exclusion</i>		
International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM)		
X72__[DS] / X72.__[DS]	Subsequent encounter or sequela variants excluded by source pattern	
X73__[DS] / X73.__[DS]	Subsequent encounter or sequela variants excluded by source pattern	
X748__[DS] / X74.8__[DS]	Subsequent encounter or sequela variants excluded by source pattern	
X749__[DS] / X74.9__[DS]	Subsequent encounter or sequela variants excluded by source pattern	
Z51.89 / Z5189	Encounter for other specified aftercare	
Chief Complaint – Local Exclusions for Intent Terms		
NO ATTEMPT		
UNINTENTIONAL		
ACCIDENTAL		
RESUSCI		
Chief Complaint – Global Self-Harm / Suicide Negation Exclusions		
END OF LIFE		
END OF BATTERY LIFE		
DENIE[SD] SELF HARM		
NO SELF HARM		
ACCIDENT		
HOMICI		
DENIE[SD] SI[V;.]		
DENIE[SD] SI		
DENIE[SD] ANY SI[V;.]		
DENIE[SD] ANY SI		
DENIE[SD] CURRENT SI[V;.]		
DENIE[SD] CURRENT SI		
NO SI[V;.]		
NO SI		
NOT SI[V;.]		
NOT SI		
DENIE[SD] SUIC		
DENIE[SD] CURRENT SUIC		

Terms	Description
DENIE[SD] ANY SUIC	
DENIE[SD] S/H	
RT SI[V;.]	
RT SI	
RIGHT SI[\ /;.]	
RIGHT SI	
NOT SUIC	
Chief Complaint – Global Firearm Term Exclusions	
no gun	
remove gun	
heard gun	
hearing gun	
hit head	
hit my head	
kickback	
kick back	
kicked back	
water gun	
watergun	
pelle	
pellt	
bb	
bb	
bebe gun	
bb gun	
bbgun	
b b gun	
bibi gun	
bi bi gun	
bb pellet	
bee bee	
beebee	
beebe	
rubber bullet	
paint	

Terms	Description
nerf	
nurf	
airgun	
air gun	
airsoft	
air soft	
spring	
pistol whip	
pistol whipped	
pistol whipping	
nail	
nailgun	
nail gun	
staplegun	
staple gun	
stun	
ta[sz]er	
la[sz]er	
bloodshot	
blood shot	
scope	
fake	
allergy shot	
injection	
follow-up	
follow up	
followup	
chronic	
drainage	
gswel	
gswol	
Chief Complaint – Nested Exclusions: Struck/Hit With AND Gun/Pistol	
struck	
hit with	
gun	

Terms	Description
pistol	
Chief Complaint – Nested Exclusions: Wound AND Follow-Up/Care/Infection Terms	
wound	
check	
care	
recheck	
infection	
infected	
Chief Complaint – Nested Exclusions: Prior Firearm Injury History Terms	
gsw	
gunshot	
gun shot	
bullet	
hx	
history	
history of	
ago	
past	
prior	
previous	
old	
Chief Complaint – Local Exclusions Within Global Firearm Exclusions	
damage to nail	
minutes ago	

Table 2. ESSENCE syntax.

(, (^;/]X7[23]^, andnot, (^;/]X7[23]___[DS]^, or, (^;/]X7[23].___[DS]^),), or, (^;/]X74[89]^, or, (^;/]X74.[89]___[DS]^, or, (^;/]X74.[89]___[DS]^),), or, (^;/]E955.[012349]^, or, (^;/]E955[012349]^, or, (^;/]219142001^, or, (^;/]219143006^, or, (^;/]219144000^, or, (^;/]219145004^, or, (^;/]219146003^, or, (^;/]287184008^, or, (^;/]287193009^),), or, ((, ((, (^ATTEMPT^, ANDNOT, ^NO ATTEMPT^),), or, (^;/]TRY^, OR, TRY^, OR, ^TRIED TO^, OR, (^INTENTIONAL^, ANDNOT, (^UNINTENTIONAL^, OR, ^ACCIDENTAL^),),),), AND, (^KILL^, OR, ^END^LIFE^, OR, ^SUICIDE^, OR, ^SUIC^, OR, ^SUCI^, OR, (^SUSCI^, ANDNOT, ^RESUSCI^),), OR, ^SUISID^),), OR, ((, (^SELF^, AND, ^INFLICT^),), ANDNOT, (^UNINTENTIONAL^, OR, ^ACCIDENTAL^),),), AND, (!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, ((, (^END OF LIFE^, OR, ^END OF BATTERY LIFE^, OR, ^DENIE[SD] SELF HARM^, OR, ^NO SELF HARM^, OR, ^ACCIDENT^, OR, ^HOMICI^, OR, ^DENIE[SD] SI[V;.]^, OR, ^DENIE[SD] SI, OR, ^DENIE[SD] ANY SI[V;.]^, OR, ^DENIE[SD] ANY SI, OR, ^DENIE[SD] CURRENT SI[V;.]^, OR, ^DENIE[SD] CURRENT SI, OR ^NO SI[V;.]^, OR, ^NO SI, OR, ^NOT SI[V;.]^, OR, ^NOT SI, OR, ^DENIE[SD] SUIC^, OR, ^DENIE[SD] CURRENT SUIC^, OR, ^DENIE[SD] ANY SUIC^, OR, ^DENIE[SD] S/H^, OR, ^RT SI[V;.]^, OR, ^RT SI, OR, ^RIGHT SI[/;.]^, OR, ^RIGHT SI, OR, ^NOT SUIC^),), OR, (^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, ^pellit^, 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, (^struck^, or, ^hit with^),), and, (^gun^, or, ^pistol^),), 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, ^infected^),),), 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^),),