NONMEDICAL FACTORS INFLUENCING HEALTH: LEGAL INTERVENTIONS, WAR, TERRORISM

Factors or Circumstances That May Influence Health Outcomes; Includes Legal Interventions Involving Violence, Operations of War, Military Operations and Terrorism.

Background

This case definition was developed in April 2023 by behavioral health experts at the Defense Centers for Public Health (DCPH) in collaboration with the Armed Forces Health Surveillance Division (AFHSD) for the purpose of epidemiological surveillance of factors related to legal interventions, war and terrorism that influence health.

Clinical Description

For the purposes of this document, *factors influencing health* refers to nonmedical contextual circumstances that may influence a patient's health status or mental well-being. These factors are typically identified in the clinical setting (i.e., self-reported by the patient or observed by the provider). The presenting problem (e.g., the injury, illness or mental health disorder) is usually the focus of treatment. Factors provide context for the presenting problem and may or may not reflect current circumstances. Factors in this case definition are generally defined by supplemental diagnosis codes in ICD-10-CM categories Y35-Y38 and are used secondary to codes indicating the nature of the condition; most often from categories S00-T88 (injury, poisoning and certain other consequences of external causes).

Case Definition and Incidence Rules

For surveillance purposes, a case of a nonmedical factor influencing health is defined as:

- *One hospitalization* with a nonmedical factor (see ICD9 and ICD10 code lists below) documented in *any* diagnostic position; or

- *One outpatient or Theater Medical Data Store (TMDS) medical encounter* with a nonmedical factor (see ICD9 and ICD10 code lists below) documented in *any* diagnostic position.

Incidence rules:

For individuals who meet the case definition:

- The incidence date is considered the date of the first hospitalization or outpatient medical encounter that includes a documented nonmedical factor.

- For incident case counts, individuals are generally considered an incident case *once per factor per lifetime*.

- For prevalent case counts, individuals are generally considered a prevalent case *once per factor per surveillance period*.

Exclusions:

- None

Codes

The following ICD9 and ICD10 codes are included in the case definition:

Legal Interventions Involving Violence (defined by Y35 codes)

Injury sustained as a result of an encounter with any law enforcement official, serving in any capacity at the time of the encounter, whether on-duty or off-duty; includes injury to law enforcement official, suspect or bystander.

Factors	ICD-10-CM Codes	ICD-9-CM Codes
Y35 (legal intervention): [A] initial encounter, [D] subsequent encounter, [S] sequela		
Y35.0 (legal intervention involving firearm discharge)		
Unspecified firearm discharge	Y35.00 (legal intervention involving *unspecified* firearm discharge…)	E970 (injury due to legal intervention by firearms)
	- Y35.001 [A,D,S] (*law enforcement official* injured)	
	- Y35.002 [A,D,S] (*bystander* injured)	
	- Y35.003 [A,D,S] (*suspect* injured)	
	- Y35.009 [A,D,S] (*unspecified person* injured)	
Injury by machine gun	Y35.01 (legal intervention involving *injury by machine gun…*)	E970 (above)
	- Y35.011 [A,D,S] (*law enforcement official* injured)	
	- Y35.012 [A,D,S] (*bystander* injured)	
	- Y35.013 [A,D,S] (*suspect* injured)	
	- Y35.019 [A,D,S] (*unspecified person* injured)	
Injury by handgun	Y35.02 (legal intervention involving *injury by handgun…*)	E970 (above)
	- Y35.021 [A,D,S] (*law enforcement official* injured)	
	- Y35.022 [A,D,S] (*bystander* injured)	
	- Y35.023 [A,D,S] (*suspect* injured)	
	- Y35.029 [A,D,S] (*unspecified person* injured)	
Injury by rifle pellet	Y35.03 (legal intervention involving *injury by rifle pellet…*)	E970 (above)
	- Y35.031 [A,D,S] (*law enforcement official* injured)	

	- Y35.032 [A,D,S] (*bystander* injured)	
	- Y35.033 [A,D,S] (*suspect* injured)	
	- Y35.039 [A,D,S] (*unspecified person* injured)	
Injury by rubber bullet	Y35.04 (legal intervention involving *injury by rubber bullet…*)	E970 (above)
	- Y35.041 [A,D,S] (*law enforcement official* injured)	
	- Y35.042 [A,D,S] (*bystander* injured)	
	- Y35.043 [A,D,S] (*suspect* injured)	
	- Y35.049 [A,D,S] (*unspecified person* injured)	
Other firearm discharge.	Y35.09 (legal intervention involving *other firearm discharge…*)	E970 (above)
	- Y35.091 [A,D,S] (*law enforcement official* injured)	
	- Y35.092 [A,D,S] (*bystander* injured)	
	- Y35.093 [A,D,S] (*suspect* injured)	
	- Y35.099 [A,D,S] (*unspecified person* injured)	
Y35.1 (legal intervention involving explosives)		
Unspecified explosives	Y35.10 (legal intervention involving *unspecified* explosives…)	E971 (injury due to legal intervention by explosives)
	- Y35.101 [A,D,S] (*law enforcement official* injured)	
	- Y35.102 [A,D,S] (*bystander* injured)	
	- Y35.103 [A,D,S] (*suspect* injured)	
	- Y35.109 [A,D,S] (*unspecified person* injured)	
By dynamite	Y35.11 (legal intervention involving *injury by dynamite …*)	E971 (above)
	- Y35.111 [A,D,S] (*law enforcement official* injured)	
	- Y35.112 [A,D,S] (*bystander* injured)	
	- Y35.113 [A,D,S] (*suspect* injured)	
	- Y35.119 [A,D,S] (*unspecified person* injured)	

By explosive shell	Y35.12 (legal intervention involving *injury by explosive shell …*)	E971 (above)
	- Y35.121 [A,D,S] (*law enforcement official* injured)	
	- Y35.122 [A,D,S] (*bystander* injured)	
	- Y35.123 [A,D,S] (*suspect* injured)	
	- Y35.129 [A,D,S] (*unspecified person* injured)	
Other explosives	Y35.19 (legal intervention involving *other explosives …*)	E971 (above)
	- Y35.191 [A,D,S] (*law enforcement official* injured)	
	- Y35.192 [A,D,S] (*bystander* injured)	
	- Y35.193 [A,D,S] (*suspect* injured)	
	- Y35.199 [A,D,S] (*unspecified person* injured)	
Y35.2 (legal intervention involving gas)		
Unspecified gas	Y35.20 (legal intervention involving *unspecified gas …*)	E972 (injury due to legal intervention by gas)
	- Y35.201 [A,D,S] (*law enforcement official* injured)	
	- Y35.202 [A,D,S] (*bystander* injured)	
	- Y35.203 [A,D,S] (*suspect* injured)	
	- Y35.209 [A,D,S] (*unspecified person* injured)	
Tear gas	Y35.21 (legal intervention involving *injury by tear gas…*)	E972 (above)
	- Y35.211 [A,D,S] (*law enforcement official* injured)	
	- Y35.212 [A,D,S] (*bystander* injured)	
	- Y35.213 [A,D,S] (*suspect* injured)	
	- Y35.219 [A,D,S] (*unspecified person* injured)	
Other gas	Y35.29 (legal intervention involving *other gas…*)	E972 (above)
	- Y35.291 [A,D,S] (*law enforcement official* injured)	
	- Y35.292 [A,D,S] (*bystander* injured)	

	- Y35.293 [A,D,S] (*suspect* injured)	
	- Y35.299 [A,D,S] (*unspecified person* injured)	
Y35.3 (legal intervention involving blunt objects)		
Unspecified blunt objects.	Y35.30 (legal intervention involving *unspecified blunt objects* …)	E973 (injury due to legal intervention by blunt object)
	- Y35.301 [A,D,S] (*law enforcement official* injured)	
	- Y35.302 [A,D,S] (*bystander* injured)	
	- Y35.303 [A,D,S] (*suspect* injured)	
	- Y35.309 [A,D,S] (*unspecified person* injured)	
Baton	Y35.31 (legal intervention involving *baton* …)	E973 (above)
	- Y35.311 [A,D,S] (*law enforcement official* injured)	
	- Y35.312 [A,D,S] (*bystander* injured)	
	- Y35.313 [A,D,S] (*suspect* injured)	
	- Y35.319 [A,D,S] (*unspecified person* injured)	
Other blunt objects	Y35.39 (legal intervention involving *other blunt objects* …)	E973 (above)
	- Y35.391 [A,D,S] (*law enforcement official* injured)	
	- Y35.392 [A,D,S] (*bystander* injured)	
	- Y35.393 [A,D,S] (*suspect* injured)	
	- Y35.399 [A,D,S] (*unspecified person* injured)	
Y35.4 (legal intervention involving sharp objects)		
Unspecified sharp objects.	Y35.40 (legal intervention involving *unspecified sharp objects* …)	E974 (injury due to legal intervention by cutting and piercing instrument)
	- Y35.401 [A,D,S] (*law enforcement official* injured)	
	- Y35.402 [A,D,S] (*bystander* injured)	
	- Y35.403 [A,D,S] (*suspect* injured)	
	- Y35.409 [A,D,S] (*unspecified person* injured)	
Bayonet	Y35.41 (legal intervention involving *bayonet*…)	E974 (above)

	- Y35.411 [A,D,S] (*law enforcement official* injured)	
	- Y35.412 [A,D,S] (*bystander* injured)	
	- Y35.413 [A,D,S] (*suspect* injured)	
	- Y35.419 [A,D,S] (*unspecified person* injured)	
Other sharp objects	Y35.49 (legal intervention involving *other sharp objects* …)	E974 (above)
	- Y35.491 [A,D,S] (*law enforcement official* injured)	
	- Y35.492 [A,D,S] (*bystander* injured)	
	- Y35.493 [A,D,S] (*suspect* injured)	
	- Y35.499 [A,D,S] (*unspecified person* injured)	
Y35.8 (legal intervention involving other specified means)		
Manhandling	Y35.81 (legal intervention involving *manhandling* …)	E975 (injury due to legal intervention by other *specified* means)
	- Y35.811 [A,D,S] (*law enforcement official* injured)	
	- Y35.812 [A,D,S] (*bystander* injured)	
	- Y35.813 [A,D,S] (*suspect* injured)	
	- Y35.819 [A,D,S] (*unspecified person* injured)	
Conducted energy device	Y35.83 (legal intervention involving *a conducted energy device* …); *new 2020*	*No ICD9 code available.*
	- Y35.831 [A,D,S] (*law enforcement official* injured)	
	- Y35.832 [A,D,S] (*bystander* injured)	
	- Y35.833 [A,D,S] (*suspect* injured)	
	- Y35.839 [A,D,S] (*unspecified person* injured)	
Other *specified* means	Y35.89 (legal intervention involving *other specified means*…)	E975 (above)
	- Y35.891 [A,D,S] (*law enforcement official* injured)	
	- Y35.892 [A,D,S] (*bystander* injured)	
	- Y35.893 [A,D,S] (*suspect* injured)	

	- Y35.899 [A,D,S] (*unspecified person* injured)	
Y35.9 (legal intervention, means unspecified)		
Means *unspecified*	Y35.91 (legal intervention, *means unspecified…*)	E976 (injury due to legal intervention by *unspecified* means)
	- Y35.91X [A,D,S] (*law enforcement official* injured)	
	- Y35.92X [A,D,S] (*bystander* injured)	
	- Y35.93X [A,D,S] (*suspect* injured)	
	- Y35.99X [A,D,S] (*unspecified person* injured)	
	Translates to multiple codes with 7th digit [S] sequelae.	E977 (late effects of injury due to legal intervention)

Operations of War (defined by Y36 codes)

Injuries to military personnel and civilians occurring during war, (i.e., armed hostile conflict between nations or states).

Factors	**ICD-10-CM Codes**	**ICD-9-CM Codes**
Y36 (operations of war): [A] initial encounter, [D] subsequent encounter, [S] sequela		
Y36.0 (war operations *involving explosion of marine weapons…*)		*E992 (injury due to war operations by explosion of marine weapons…)*
Explosion of *unspecified* marine weapon	Y36.00 (explosion of *unspecified* marine weapon…)	E992.9 (by unspecified marine weapon)
	- Y36.000 [A,D,S] (military personnel)	
	- Y36.001 [A,D,S] (civilian)	
Explosion *of depth-charge*	Y36.01 (explosion of *depth-charge…*)	E992.1 (due to depth-charge)
	- Y36.010 [A,D,S] (military personnel)	
	- Y36.011 [A,D,S] (civilian)	
Explosion of *marine mine*	Y36.02 (explosion of *marine mine…*)	E992.2 (due to marine mines)
	- Y36.020 [A,D,S] (military personnel)	
	- Y36.021 [A,D,S] (civilian)	
Explosion of *sea-based artillery shell*	Y36.03 (explosion of *sea-based artillery shell…*)	E992.3 (due to sea-based artillery shell)
	- Y36.030 [A,D,S] (military personnel)	
	- Y36.031 [A,D,S] (civilian)	
	Y36.04 (explosion of *torpedo…*)	E992.0 (due to torpedo)

Explosion of *torpedo*	- Y36.040 [A,D,S] (military personnel)	
	- Y36.041 [A,D,S] (civilian)	
Accidental detonation	Y36.05 (explosion of *accidental detonation of onboard marine weapons…*)	E992.9 (above)
	- Y36.050 [A,D,S] (military personnel)	
	- Y36.051 [A,D,S] (civilian)	
Explosion of *other marine weapons*	Y36.09 (explosion of *other marine weapons…*)	E992.8 (by other marine weapons)
	- Y36.090 [A,D,S] (military personnel)	
	- Y36.091 [A,D,S] (civilian)	
Y36.1 (war operations *involving destruction of aircraft…*)		*E994 (injury to war operations by destruction of aircraft…)*
Unspecified destruction of aircraft	Y36.10 (*unspecified destruction of aircraft…*)	E994.9 (by unspecified destruction of aircraft)
	- Y36.100 [A,D,S] (military personnel)	
	- Y36.101 [A,D,S] (civilian)	
Destruction due to *enemy fire or explosives*	Y36.11 (*destruction of aircraft due to enemy fire or explosives…*)	E994.0 (by destruction of aircraft due to enemy fire or explosives)
	- Y36.110 [A,D,S] (military personnel)	
	- Y36.111 [A,D,S] (civilian)	
Destruction due to *collision with other aircraft*	Y36.12 (*destruction due to collision with other aircraft…*)	E994.2 (by destruction of aircraft due to collision with other aircraft)
	- Y36.120 [A,D,S] (military personnel)	
	- Y36.121 [A,D,S] (civilian)	
Destruction due to *onboard fire*	Y36.13 (*destruction of aircraft due to onboard fire…*)	E994.3 (by destruction of aircraft due to onboard fire)
	- Y36.130 [A,D,S] (military personnel)	
	- Y36.131 [A,D,S] (civilian)	
Accidental detonation of onboard munitions	Y36.14 (*destruction of aircraft due to accidental detonation of onboard munitions and explosives…*)	E994.1 (by unintentional destruction of aircraft due to own onboard explosives)
	- Y36.140 [A,D,S] (military personnel)	
	- Y36.141 [A,D,S] (civilian)	
Other destruction of aircraft	Y36.19 (*other destruction of aircraft…*)	E994.8 (by other destruction of aircraft)
	- Y36.190 [A,D,S] (military personnel)	
	- Y36.191 [A,D,S] (civilian)	
Y36.2 (war operations *involving other explosions and fragments…*)		*E993 (injury due to war operations by other explosion…)*

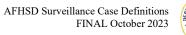|		
Unspecified explosion and fragments	Y36.20 (*unspecified explosion and fragments…*)	E991.9 (from other and unspecified fragments)
	- Y36.200 [A,D,S] (military personnel)	E993.9 (by unspecified explosion)
	- Y36.201 [A,D,S] (civilian)	
Explosion of *aerial bomb*	Y36.21 (*explosion of aerial bomb…*)	E993.0 (by aerial bomb)
	- Y36.210 [A,D,S] (military personnel)	
	- Y36.211 [A,D,S] (civilian)	
Explosion of *guided missile*	Y36.22 (*explosion of guided missile…*)	E993.1 (by guided missile)
	- Y36.220 [A,D,S] (military personnel)	
	- Y36.221 [A,D,S] (civilian)	
Explosion of *improvised explosive device [IED]*	Y36.23 (*explosion of improvised explosive devise [IED]…*)	E993.3 (by *person-borne* improvised explosive device [IED)
	- Y36.230 [A,D,S] (military personnel)	E993.4 (by *vehicle-borne* improvised explosive device [IED]
	- Y36.231 [A,D,S] (civilian)	
Explosion due to *accidental detonation*	Y36.24 (*explosion due to accidental detonation and discharge of own munitions or munitions launch devise*)	E993.6 (by unintentional detonation of own munitions)
		E993.7 (by unintentional discharge of own munitions launch devise)
	- Y36.240 [A,D,S] (military personnel)	
	- Y36.241 [A,D,S] (civilian)	
Fragments *from munitions*	Y36.25 (*involving fragments from munitions*)	E991.4 (by fragments and munitions)
	- Y36.250 [A,D,S] (military personnel)	
	- Y36.251 [A,D,S] (civilian)	
Fragments *of improvised explosive devise [IED]*	Y36.26 (*involving fragments of improvised explosive devise [IED]*)	E991.5 (by fragments from *person-borne* improvised explosive device [IED])
	- Y36.260 [A,D,S] (military personnel)	E991.6 (by fragments from *vehicle-borne* improvised explosive device [IED])
	- Y36.261 [A,D,S] (civilian)	E991.7 (by fragments from *other* improvised explosive device [IED])
Fragments *from weapons*	Y36.27 (*involving fragments from weapons*)	E991.8 (by fragments from weapons)
	- Y36.270 [A,D,S] (military personnel)	
	- Y36.271 [A,D,S] (civilian)	
Other explosions and fragments	Y36.29 (*involving other explosions and fragments*)	E991.3 (from antipersonnel bomb (fragments))
	- Y36.290 [A,D,S] (military personnel)	E993.2 (by mortar)
	- Y36.291 [A,D,S] (civilian)	E993.8 (by other specified explosion)

Y36.3 (war operations *involving fires, conflagrations, and hot substances…*)		*E990 (injury due to war operations by fires and conflagrations…)*
Unspecified fire, conflagration, and hot substance	Y36.30 (*unspecified fire, conflagration, and hot substance…*)	E990.9 (from other and unspecified source)
	- Y36.300 [A,D,S] (military personnel)	
	- Y36.301 [A,D,S] (civilian)	
Gasoline bomb	Y36.31 (*involving gasoline bomb …*)	E990.0 (from gasoline bomb)
	- Y36.310 [A,D,S] (military personnel)	
	- Y36.311 [A,D,S] (civilian)	
Incendiary bullet	Y36.32 (*involving incendiary bullet …*)	E990.2 (from incendiary bullet)
	- Y36.320 [A,D,S] (military personnel)	
	- Y36.321 [A,D,S] (civilian)	
Flamethrower	Y36.33 (*involving flamethrower …*)	E990.1 (from flamethrower)
	- Y36.330 [A,D,S] (military personnel)	
	- Y36.331 [A,D,S] (civilian)	
Other fires, conflagrations, and hot substances	Y36.39 (*involving other fires, conflagrations, and hot substances…*)	E990.3 (from fire caused indirectly from conventional weapon)
	- Y36.390 [A,D,S] (military personnel)	
	- Y36.391 [A,D,S] (civilian)	
Y36.4 (war operations *involving firearm discharge and other forms of conventional warfare*)		*E991 (injury due to war operations by bullets and fragments…)* *E995 (injury due to war operations by other and unspecified forms of conventional warfare…)*
Rubber bullets	Y36.41 (*involving rubber bullets …*)	E991.0 (from rubber bullets (rifle))
	- Y36.410 [A,D,S] (military personnel)	
	- Y36.411[A,D,S] (civilian)	
Firearm pellets	Y36.42 (*involving firearm pellets …*)	E991.1 (from pellets (rifle))
	- Y36.420 [A,D,S] (military personnel)	
	- Y36.421[A,D,S] (civilian)	
Other firearms discharge	Y36.43 (*involving other firearms discharge …*)	E991.2 (from other bullets)
	- Y36.430 [A,D,S] (military personnel)	
	- Y36.431 [A,D,S] (civilian)	
Unarmed *hand to hand combat*	Y36.44 (*involving unarmed hand to hand combat …*)	E995.0 (by unarmed hand-to-hand combat)

	- Y36.440 [A,D,S] (military personnel)	
	- Y36.441 [A,D,S] (civilian)	
Combat *using blunt or piercing objects*	Y36.45 (*involving combat using blunt or piercing objects* …)	E995.1 (struck by blunt object) E995.2 (by piercing object)
	- Y36.450 [A,D,S] (military personnel)	
	- Y36.451 ([A,D,S] civilian)	
Intentional restriction of air and airway	Y36.46 (*involving intentional restriction of air and airway*…)	E995.3 (by intentional restriction of air and airway)
	- Y36.460 [A,D,S] (military personnel)	
	- Y36.461 [A,D,S] (civilian)	
Unintentional restriction of air and airway	Y36.47 (*involving unintentional restriction of air and airway*…)	E995.4 (by unintentional drowning due to inability to surface or obtain air)
	- Y36.470 [A,D,S] (military personnel)	
	- Y36.471 [A,D,S] (civilian)	
Other forms of conventional warfare	Y36.49 (involving *other forms of conventional warfare* …)	E995.8 (by *other* form of conventional warfare) E995.9 (by *unspecified* form of conventional warfare)
	- Y36.490 [A,D,S] (military personnel)	
	- Y36.491 [A,D,S] (civilian)	
Y36.5 (war operations *involving nuclear weapons*)		*E996 (injury due to war operations by nuclear weapons…)*
Unspecified effect	Y36.50 (involving *unspecified effect of nuclear weapon*…)	E996.9 (by *unspecified* effect of nuclear weapon)
	- Y36.500 [A,D,S] (military personnel)	
	- Y36.501 [A,D,S] (civilian)	
Direct blast	Y36.51 (involving *direct blast effect of nuclear weapon*…)	E996.0 (by *direct* blast effect of nuclear weapon)
	- Y36.510 [A,D,S] (military personnel)	
	- Y36.511 [A,D,S] (civilian); [A,D,S]	
Indirect blast	Y36.52 (involving *indirect blast effects of nuclear weapon*…)	E996.1 (by *indirect* blast effect of nuclear weapon)
	- Y36.520 [A,D,S] (military personnel)	
	- Y36.521 ([A,D,S] (civilian)	
Thermal radiation	Y36.53 (involving *thermal radiation effect of nuclear weapon*…)	E996.2 (by thermal radiation effect of nuclear weapon)
	- Y36.530 [A,D,S] (military personnel)	
	- Y36.531 [A,D,S] (civilian)	

Nuclear radiation	Y36.54 (involving *nuclear radiation effects of nuclear weapon*…)	E996.3 (by nuclear radiation effects)
	- Y36.540 [A,D,S] (military personnel)	
	- Y36.541 [A,D,S] (civilian)	
Other effects of nuclear weapon	Y36.59 (involving *other effects of nuclear weapon*…)	E996.8 (by other effects of nuclear weapons)
	- Y36.590 [A,D,S] (military personnel)	
	- Y36.591 [A,D,S] (civilian)	
Y36.6 (war operations *involving biological weapons)*		*E997 (injury due to war operations by other forms of unconventional warfare...)*
Biological weapons	Y36.6X (involving *biological weapons*…)	E997.1 (by biological warfare)
	- Y36.6X0 [A,D,S] (military personnel)	
	- Y36.6X1 [A,D,S] (civilian)	
Y36.7 (war operations *involving chemical weapons and other forms of conventional warfare)*		
Chemical weapons	Y36.7X (involving *chemical weapons and other forms of conventional warfare*…)	E997.0 (by lasers)
		E997.2 (by gases, fumes, and chemicals)
	- Y36.7X0 [A,D,S] (military personnel)	E997.8 (injury due to other specified forms of unconventional warfare)
	- Y36.7X1 [A,D,S] (civilian);	E997.9 (injury due to unspecified forms of unconventional warfare)
Y36.8 (war operations *occurring after cessation of hostilities)*		*E998 (injury due to war operations but occurring after cessations of hostilities…)*
		E999 (late effect injury due to war operations and terrorism…)
Explosion of mine	Y36.81 (*explosion of mine* placed during war operations but exploding *after* cessation of hostilities…)	E998.0 (by explosion of mines)
	- Y36.810 [A,D,S] (military personnel)	
	- Y36.811 [A,D,S] (civilian)	
Explosion of bomb	Y36.82 (*explosion of bomb* placed during war operations but exploding after cessation of hostilities…)	E998.1 (by explosion of bombs)
	- Y36.820 [A,D,S] (military personnel)	
	- Y36.821[A,D,S] (civilian)	
Other operations of war	Y36.88 (*other operations of war* occurring *after* cessation of hostilities…)	

	- Y36.880 [A,D,S] (military personnel)	E998.8 (injury due to *other* war operations but occurring after cessation of hostilities)
	- Y36.881 [A,D,S] (civilian)	
Unspecified war operations	Y36.89 (*unspecified war operations* occurring *after* cessation of hostilities…)	E998.9 (injury due to *unspecified* war operations but occurring after cessation of hostilities)
	- Y36.890 [A,D,S] (military personnel)	
	- Y36.891 [A,D,S] (civilian)	
	Translates to multiple codes with 7th digit [S] sequelae.	E999.0 (late effect of injury due to war operation) E999.1 (late effect of injury due to terrorism)
Y36.9 (*other and unspecified war operations*)		
War operations *unspecified*	Y36.90 (war operations, *unspecified*…)	E990.9 (above)
	- Y36.90X [A,D,S] (war operations, *unspecified*)	
Unspecified [WMD]	Y36.91 (war operations involving *unspecified weapon of mass destruction [WMD]* …)	E997.3 (injury due to war operations by weapon of mass destruction [WMD], unspecified)
	- Y36.91X [A,D,S] (military personnel)	
Friendly fire	Y36.92 (war operations *involving friendly fire*…)	E990.9 (above)
	- Y36.92X [A,D,S] (military personnel)	

Military Operations *(defined by Y37 codes)*

Injuries to military personnel and civilians occurring during peacetime on military property and during routine military exercises and operations.

*ICD9 code set same as Y36

Factors	ICD-10-CM Codes	ICD-9-CM Codes
Y37 (military operations): [A] initial encounter, [D] subsequent encounter, [S] sequela		
Y37.0 (military operations *involving explosion of marine weapons*…)		*E992 (injury due to war operations by explosion of marine weapons…)*
Explosion of *unspecified* marine weapon	Y37.00 (explosion of *unspecified* marine weapon…)	E992.9 (by unspecified marine weapon)
	- Y37.000 [A,D,S] (military personnel)	
	- Y37.001 [A,D,S] (civilian)	
Explosion *of depth-charge*	Y37.01 (explosion of *depth-charge*…)	E992.1 (due to depth-charge)
	- Y37.010 [A,D,S] (military personnel)	
	- Y37.011 [A,D,S] (civilian)	
	Y37.02 (explosion of *marine mine*…)	E992.2 (due to marine mines)

Explosion of *marine mine*	- Y37.020 [A,D,S] (military personnel)	
	- Y37.021 [A,D,S] (civilian)	
Explosion of *sea-based artillery shell*	Y37.03 (explosion of *sea-based artillery shell…*)	E992.3 (due to sea-based artillery shell)
	- Y37.030 [A,D,S] (military personnel)	
	- Y37.031 [A,D,S] (civilian)	
Explosion of *torpedo*	Y37.04 (explosion of *torpedo…*)	E992.0 (due to torpedo)
	- Y37.040 [A,D,S] (military personnel)	
	- Y37.041 [A,D,S] (civilian)	
Accidental detonation	Y37.05 (explosion of *accidental detonation of onboard marine weapons…*)	E992.9 (above)
	- Y37.050 [A,D,S] (military personnel)	
	- Y37.051 [A,D,S] (civilian)	
Explosion of *other marine weapons*	Y37.09 (explosion of *other marine weapons…*)	E992.8 (by other marine weapons)
	- Y37.090 [A,D,S] (military personnel)	
	- Y37.091 [A,D,S] (civilian)	
Y37.1 (military operations *involving destruction of aircraft…*)		*E994 (injury to war operations by destruction of aircraft...)*
Unspecified destruction of aircraft	Y37.10 (*unspecified destruction of aircraft…*)	E994.9 (by unspecified destruction of aircraft)
	- Y37.100 [A,D,S] (military personnel)	
	- Y37.101 [A,D,S] (civilian)	
Destruction due to *enemy fire or explosives*	Y37.11 (*destruction of aircraft due to enemy fire or explosives…*)	E994.0 (by destruction of aircraft due to enemy fire or explosives)
	- Y37.110 [A,D,S] (military personnel)	
	- Y37.111 [A,D,S] (civilian)	
Destruction due to *collision with other aircraft*	Y37.12 (*destruction due to collision with other aircraft…*)	E994.2 (by destruction of aircraft due to collision with other aircraft)
	- Y37.120 [A,D,S] (military personnel)	
	- Y37.121 [A,D,S] (civilian)	
Destruction due to *onboard fire*	Y37.13 (*destruction of aircraft due to onboard fire…*)	E994.3 (by destruction of aircraft due to onboard fire)
	- Y37.130 [A,D,S] (military personnel)	
	- Y37.131 [A,D,S] (civilian)	
Accidental detonation of onboard munitions	Y37.14 (*destruction of aircraft due to accidental detonation of onboard munitions and explosives…*)	E994.1 (by unintentional destruction of aircraft due to own onboard explosives)

	- Y37.140 [A,D,S] (military personnel)	
	- Y37.141 [A,D,S] (civilian)	
Other destruction of aircraft	Y37.19 (*other destruction of aircraft…*)	E994.8 (by other destruction of aircraft)
	- Y37.190 [A,D,S] (military personnel)	
	- Y37.191 [A,D,S] (civilian)	
Y37.2 (military operations *involving other explosions and fragments…*)		*E993 (injury due to war operations by other explosion…)*
Unspecified explosion and fragments	Y37.20 (*unspecified explosion and fragments…*)	E991.9 (from other and unspecified fragments) E993.9 (by unspecified explosion)
	- Y37.200 [A,D,S] (military personnel)	
	- Y37.201 [A,D,S] (civilian)	
Explosion of *aerial bomb*	Y37.21 (*explosion of aerial bomb…*)	E993.0 (by aerial bomb)
	- Y37.210 [A,D,S] (military personnel)	
	- Y37.211 [A,D,S] (civilian)	
Explosion of *guided missile*	Y37.22 (*explosion of guided missile…*)	E993.1 (by guided missile)
	- Y37.220 [A,D,S] (military personnel)	
	- Y37.221 [A,D,S] (civilian)	
Explosion of *improvised explosive device [IED]*	Y37.23 (*explosion of improvised explosive devise [IED]…*)	E993.3 (by *person-borne* improvised explosive device [IED) E993.4 (by *vehicle-borne* improvised explosive device [IED]
	- Y37.230 [A,D,S] (military personnel)	
	- Y37.231 [A,D,S] (civilian)	
Explosion due to *accidental detonation*	Y37.24 (*explosion due to accidental detonation and discharge of own munitions or munitions launch devise*)	E993.6 (by unintentional detonation of own munitions) E993.7 (by unintentional discharge of own munitions launch devise)
	- Y37.240 [A,D,S] (military personnel)	
	- Y37.241 [A,D,S] (civilian)	
Fragments *from munitions*	Y37.25 (*involving fragments from munitions*)	E991.4 (by fragments and munitions)
	- Y37.250 [A,D,S] (military personnel)	
	- Y37.251 [A,D,S] (civilian)	
Fragments *of improvised explosive devise [IED]*	Y37.26 (*involving fragments of improvised explosive devise [IED]*)	E991.5 (by fragments from *person-borne* improvised explosive device [IED]) E991.6 (by fragments from *vehicle-borne* improvised explosive device [IED]) E991.7 (by fragments from *other* improvised explosive device [IED])
	- Y37.260 [A,D,S] (military personnel)	
	- Y37.261 [A,D,S] (civilian)	

Fragments *from* weapons	Y37.27 (*involving fragments from weapons*)	E991.8 (by fragments from weapons)
	- Y37.270 [A,D,S] (military personnel)	
	- Y37.271 [A,D,S] (civilian)	
Other explosions and fragments	Y37.29 (*involving other explosions and fragments*)	E991.3 (from antipersonnel bomb (fragments))
	- Y37.290 [A,D,S] (military personnel)	E993.2 (by mortar)
	- Y37.291 [A,D,S] (civilian)	E993.8 (by other specified explosion)
Y37.3 (military operations *involving fires, conflagrations, and hot substances…*)		*E990 (injury due to war operations by fires and conflagrations…)*
Unspecified fire, conflagration, and hot substance	Y37.30 (*unspecified fire, conflagration, and hot substance…*)	E990.9 (from other and unspecified source)
	- Y37.300 [A,D,S] (military personnel)	
	- Y37.301 [A,D,S] (civilian)	
Gasoline bomb	Y37.31 (*involving gasoline bomb …*)	E990.0 (from gasoline bomb)
	- Y37.310 [A,D,S] (military personnel)	
	- Y37.311 [A,D,S] (civilian)	
Incendiary bullet	Y37.32 (*involving incendiary bullet …*)	E990.2 (from incendiary bullet)
	- Y37.320 [A,D,S] (military personnel)	
	- Y37.321 [A,D,S] (civilian)	
Flamethrower	Y37.33 (*involving flamethrower …*)	E990.1 (from flamethrower)
	- Y37.330 [A,D,S] (military personnel)	
	- Y37.331 [A,D,S] (civilian)	
Other fires, conflagrations, and hot substances	Y37.39 (*involving other fires, conflagrations, and hot substances…*)	E990.3 (from fire caused indirectly from conventional weapon)
	- Y36.390 [A,D,S] (military personnel)	
	- Y36.391 [A,D,S] (civilian)	
Y37.4 (military operations *involving firearm discharge and other forms of conventional warfare*)		*E991 (injury due to war operations by bullets and fragments…)*
		E995 (injury due to war operations by other and unspecified forms of conventional warfare…)
Rubber bullets	Y37.41 (*involving rubber bullets …*)	E991.0 (injury due to war operations from rubber bullets (rifle))
	- Y37.410 [A,D,S] (military personnel)	
	- Y37.411[A,D,S] (civilian)	
Firearm pellets	Y37.42 (*involving firearm pellets …*)	E991.1 (from pellets (rifle))

	- Y37.420 [A,D,S] (military personnel)	
	- Y37.421[A,D,S] (civilian)	
Other firearms discharge	Y37.43 (*involving other firearms discharge* …)	E991.2 (from other bullets)
	- Y37.430 [A,D,S] (military personnel)	
	- Y37.431 [A,D,S] (civilian)	
Unarmed *hand to hand combat*	Y37.44 (*involving unarmed hand to hand combat* …)	E995.0 (by unarmed hand-to-hand combat)
	- Y37.440 [A,D,S] (military personnel)	
	- Y37.441 [A,D,S] (civilian)	
Combat *using blunt or piercing objects*	Y37.45 (*involving combat using blunt or piercing objects* …)	E995.1 (struck by blunt object) E995.2 (by piercing object)
	- Y37.450 [A,D,S] (military personnel)	
	- Y37.451 ([A,D,S] civilian)	
Intentional restriction of air and airway	Y37.46 (*involving intentional restriction of air and airway*…)	E995.3 (by intentional restriction of air and airway)
	- Y37.460 [A,D,S] (military personnel)	
	- Y37.461 [A,D,S] (civilian)	
Unintentional restriction of air and airway	Y37.47 (*involving unintentional restriction of air and airway*…)	E995.4 (by unintentional drowning due to inability to surface or obtain air)
	- Y37.470 [A,D,S] (military personnel)	
	- Y37.471 [A,D,S] (civilian)	
Other forms of conventional warfare	Y37.49 (involving *other forms of conventional warfare* …)	E995.8 (by *other* form of conventional warfare) E995.9 (by *unspecified* form of conventional warfare)
	- Y37.490 [A,D,S] (military personnel)	
	- Y37.491 [A,D,S] (civilian)	
Y37.5 (military operations *involving nuclear weapons*)		*E996 (injury due to war operations by nuclear weapons…)*
Unspecified effect	Y37.50 (involving *unspecified effect of nuclear weapon*…)	E996.9 (by *unspecified* effect of nuclear weapon)
	- Y37.500 [A,D,S] (military personnel)	
	- Y37.501 [A,D,S] (civilian)	
Direct blast	Y37.51 (involving *direct blast effect of nuclear weapon*…)	E996.0 (by *direct* blast effect of nuclear weapon)
	- Y37.510 [A,D,S] (military personnel)	
	- Y37.511 [A,D,S] (civilian); [A,D,S]	

Indirect blast	Y37.52 (involving *indirect blast effects of nuclear weapon…*)	E996.1 (by *indirect* blast effect of nuclear weapon)
	- Y37.520 [A,D,S] (military personnel)	
	- Y37.521 ([A,D,S] (civilian)	
Thermal radiation	Y37.53 (involving *thermal radiation effect of nuclear weapon…*)	E996.2 (by thermal radiation effect of nuclear weapon)
	- Y37.530 [A,D,S] (military personnel)	
	- Y37.531 [A,D,S] (civilian)	
Nuclear radiation	Y37.54 (involving *nuclear radiation effects of nuclear weapon…*)	E996.3 (by nuclear radiation effects)
	- Y37.540 [A,D,S] (military personnel)	
	- Y37.541 [A,D,S] (civilian)	
Other effects of nuclear weapon	Y37.59 (involving *other effects of nuclear weapon…*)	E996.8 (by other effects of nuclear weapons)
	- Y37.590 [A,D,S] (military personnel)	
	- Y37.591 [A,D,S] (civilian)	
Y37.6 (military operations *involving biological weapons)*		*E997 (injury due to war operations by other forms of unconventional warfare...)*
Biological weapons	Y37.6X (involving *biological weapons…*)	E997.1 (by biological warfare)
	- Y37.6X0 [A,D,S] (military personnel)	
	- Y37.6X1 [A,D,S] (civilian)	
Y37.7 (military operations *involving chemical weapons and other forms of conventional warfare)*		
Chemical weapons	Y37.7X (involving *chemical weapons and other forms of conventional warfare…*)	E997.0 (by lasers)
		E997.2 (by gases, fumes, and chemicals)
	- Y37.7X0 [A,D,S] (military personnel)	
	- Y37.7X1 [A,D,S] (civilian);	E997.8 (injury due to other specified forms of unconventional warfare)
		E997.9 (injury due to unspecified forms of unconventional warfare)
Y37.9 (*other and unspecified military operations)*		
Military operations *unspecified*	Y37.90 (military operations, *unspecified…*)	E990.9 (above)
	- Y37.90X [A,D,S] (military operations, *unspecified*)	
Unspecified [WMD]	Y37.91 (military operations involving *unspecified weapon of mass destruction [WMD]…*)	E997.3 (injury due to war operations by weapon of mass destruction [WMD], unspecified)
	- Y37.91X [A,D,S] (military personnel)	

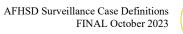| Friendly fire	Y37.92 (military operations *involving friendly fire…*)	E990.9 (above)
	- Y37.92X [A,D,S] (military personnel)	

Terrorism *(defined by Y38 codes)*

Injuries resulting from the unlawful use of force or violence against persons or property to intimidate or coerce a Government, the civilian population, or any segment thereof, in furtherance of political or social objective.

Factors	**ICD-10-CM Codes**	**ICD-9-CM Codes**
[A] initial encounter, [D] subsequent encounter, [S] sequela		
Y38 (Terrorism)		***E979 (Terrorism)***
Y38.0 (terrorism *involving explosion of marine weapons…*)		E979.0 (terrorism involving explosion of marine weapons)
Explosion of marine weapons	Y38.0X (terrorism involving *explosion of marine weapons…*)	
	- Y38.0X1 [A,D,S] (*public safety official* injured)	
	- Y38.0X2 [A,D,S] (*civilian* injured)	
	- Y38.0X3 [A,D,S] (*terrorist* injured)	
Y38.1 (terrorism *involving destruction of aircraft…*)		E979.1 (terrorism involving destruction of aircraft)
Destruction of aircraft	Y38.1X (terrorism involving *destruction of aircraft…*)	
	- Y38.1X1 [A,D,S] (*public safety official* injured)	
	- Y38.1X2 [A,D,S] (*civilian* injured)	
	- Y38.1X3 [A,D,S] (*terrorist* injured)	
Y38.2 (terrorism *involving other explosions and fragments*)		E979.2 (terrorism involving other explosions and fragments)
Other explosions and fragments	Y38.2X (terrorism involving *other explosions and fragments…*)	
	- Y38.2X1 [A,D,S] (*public safety official* injured)	
	- Y38.2X2 [A,D,S] (*civilian* injured)	
	- Y38.2X3 [A,D,S] (*terrorist* injured)	
Y38.3 (terrorism *involving fires, conflagration, and hot substances*)		E979.3 (terrorism involving fires)
Fires, conflagration, and hot substances	Y38.3X (terrorism involving *fires, conflagration, and hot substances…*)	
	- Y38.3X1 [A,D,S] (*public safety official* injured)	

	- Y38.3X2 [A,D,S] (*civilian* injured)	
	- Y38.3X3 [A,D,S] (*terrorist* injured)	
Y38.4 (terrorism *involving firearms*)		E979.4 (terrorism involving firearms)
Firearms	Y38.4X (terrorism involving *firearms*…)	
	- Y38.4X1 [A,D,S] (*public safety official* injured)	
	- Y38.4X2 [A,D,S] (*civilian* injured)	
	- Y38.4X3 [A,D,S] (*terrorist* injured)	
Y38.5 (terrorism *involving nuclear weapons*)		E979.5 (terrorism involving nuclear weapons)
Nuclear weapons	Y38.5X (terrorism involving *nuclear weapons*…)	
	- Y38.5X1 [A,D,S] (*public safety official* injured)	
	- Y38.5X2 [A,D,S] (*civilian* injured)	
	- Y38.5X3 [A,D,S] (*terrorist* injured)	
Y38.6 (terrorism *involving biological weapons*)		E979.6 (terrorism involving biological weapons)
Biological weapons	Y38.6X (terrorism involving *biological weapons*…)	
	- Y38.6X1 [A,D,S] (*public safety official* injured)	
	- Y38.6X2 [A,D,S] (*civilian* injured)	
	- Y38.6X3 [A,D,S] (*terrorist* injured)	
Y38.7 (terrorism *involving chemical weapons*)		E979.7 (terrorism involving chemical weapons)
Chemical weapons	Y38.7X (terrorism involving *chemical weapons*…)	
	- Y38.7X1 [A,D,S] (*public safety official* injured)	
	- Y38.7X2 [A,D,S] (*civilian* injured)	
	- Y38.7X3 [A,D,S] (*terrorist* injured)	
Y38.8 (terrorism *involving other and unspecified means*)		E979.8 (terrorism involving other means)
Unspecified means	Y38.80 (terrorism involving *unspecified* means…)	
	- Y38.80X [A,D,S] (terrorism involving *unspecified* means)	
Suicide bomber	Y38.81 (terrorism involving *suicide bomber*…)	E979.8 (above)
	- Y38.811 [A,D,S] (*public safety official* injured)	

	- Y38.812 [A,D,S] (*civilian* injured)	
Other means	Y38.89 (terrorism involving *other* means…)	E979.8 (above)
	- Y38.891[A,D,S] (*public safety official injured*)	
	- Y38.892 [A,D,S] (*civilian* injured)	
	- Y38.893 [A,D,S] (*terrorist* injured)	
Y38.9 (terrorism*, secondary effects*)		E979.9 (terrorism involving secondary effects)
Secondary effects	Y38.9X (terrorism, *secondary* effects …)	
	- Y38.9X1 [A,D,S] (*public safety official injured*)	
	- Y38.9X2 [A,D,S] (*civilian* injured)	
Other psychosocial factors	Z65.4 (victim of crime and terrorism)	*Translated codes to broad for inclusion.*
	Z65.5 (exposure to disaster, war, and other hostilities)	

Development and Revisions

- This case definition was developed in April 2023 by the Behavioral Health/Public Health Work Group [BH/PH WG] in collaboration with AFHSD. The case definition was developed based on reviews of the ICD9 and ICD10 codes, the scientific literature, and previous AFHSD and DCPH analyses.

- The case definition was designed to support surveillance and analysis of contextual factors and outcomes related to mental health in military-related populations. Investigators interested in factors and outcomes related to specific health conditions (e.g., heart disease, diabetes, obesity), or specific mental health disorders (e.g., anxiety, depression) may wish to modify the case definition.

- Alternative titles considered for this case definition included "Adverse Determinants of Health," "Stressors," and "Circumstances Influencing Health." The work group felt the term "determinants" implies a factor that necessarily affects heath rather than one whose effect varies by individual and situation. The title "Nonmedical Factors Influencing Health" aligned better with the intent of the case definition and seemed easier to understand than "Stressors" and "Circumstances Influencing Health."

Case Definition and Incidence Rule Rationale

- In 2023, the work group determined that *one* outpatient or TMDS medical encounter with a nonmedical factor would be sufficient to define a case. While factors that influence health are often identified in the clinical setting (i.e., self-reported by the patient or observed by the provider), they are not defined by specific clinical or diagnostic criteria. Therefore, an individual would not require multiple outpatient encounters to confirm the presence of a specific factor.

Code Set Determination and Rationale

- The code set documented here is based, in part, on code sets developed by WHO and the CDC to monitor Social Determinants of Health (SDOH) and on a Veteran's Administration (VA) study that looked at "adverse social determinants of health (SDH)" and their association with suicide risk and morbidity.[1] Similar to the code set used in the VA study, the AFHSD series of code sets includes lifestyle factors, factors related to violence, abuse, and maltreatment and factors related to legal interventions, military operations, war and terrorism. The work group reviewed and modified the code sets to make them more relevant to service members and beneficiaries of the Military Health System (MHS) and to behavioral health.

- Category Y37 (military operations) is included in the code set. The ICD10 codes in this category identify "injuries to military personal and civilians that are sustained during peacetime on military property and during routine military exercises and operations." While the intent of this case definition is to capture factors influencing health related to *intentional* violence–the intentional use of physical force or power to hurt, damage, or kill someone–individuals who sustain *unintentional* injuries or are exposed to violence during routine military operations may experience mental and emotional trauma and behavioral health complications.

- The translated ICD9 code sets for Y36 (Operations of War) and Y37 (Military Operations) are identical; however, the ICD9 codes identify injuries that occur during Operations of War. The category Y37 (Military Operations), which identifies injuries that occur during peacetime on military property, was added to ICD-10-CM; therefore, the translated ICD9 codes are approximate and may be too broad for inclusion in some analyses.

- In ICD10 most injury diagnosis codes have a 7th character (letter) that specifies whether the diagnosis involves an initial medical encounter [A], a subsequent medical encounter [B], or sequela [S] of an injury diagnosis. For the purposes of capturing both incident and prevalent cases, this case definition includes all 7th digit characters. Prevalent cases are often the focus of analyses to understand how many individuals are affected by these factors in a specific timeframe.

- For mapping purposes, only ICD10 codes with a 7th digit (A) are converted to ICD9 and only one corresponding code is included in the code set. Converting ICD10 codes with 7th digits (D) and (S) requires multiple ICD9 codes from various categories, which is not feasible for analysis.

Reports

The AFHSD reports on nonmedical factors influencing health in the following reports:

- Periodic *MSMR* articles.

The DCPH reports on nonmedical factors influencing health in the following reports:

- Surveillance of Suicidal Behavior Publication [U.S. Army]

- Behavioral Health Monitoring Among Active Duty U.S. Army Soldiers

Review

Oct 2023	Case definition reviewed and adopted by the AFHSD Surveillance Methods and Standards (SMS) working group.

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[1] Blosnich, J.R., Montgomery, A.E., Dichter, M.E. *et. al*., Social Determinants and Military Veterans' Suicide Ideation and Attempt: a Cross-sectional Analysis of Electronic Health Record Data. *J Gen Intern Med* 35, 1759-1767 (2020). Available at: tps://link.springer.com/article/10.1007/s11606-019-05447-z. Accessed April 2023.

Apr 2023   Case definition developed by behavioral health experts at DCPH and by AFHSD
                  Epidemiology and Analysis (E&A) staff.

Comments

- For the purposes of this case definition, behavioral health is defined as: "A state of health that encompasses an individual's behavioral, psychosocial, and emotional well-being." Numerous factors may influence an individual's behavioral health. Individuals may or may not have a coexisting mental health condition that meets the specific Diagnostic and Statistical Manual of Mental Disorders (DSM-5) criteria required for a diagnosis of a mental health *disorder*.