

## NONMEDICAL FACTORS INFLUENCING HEALTH: VIOLENCE, ABUSE, MALTREATMENT

*Factors or Circumstances That May Influence Health Outcomes; Includes Rape; Physical, Sexual and Psychological Abuse, Maltreatment, Exploitation and Assault.*

### 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 violence, abuse, and maltreatment factors 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 Z, O, T, X and Y 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:

### *Physical, Sexual, and Psychological Abuse and Exploitation*

*(Victim of Violence; defined by V and Z codes)*

Factors	ICD-10-CM Codes	ICD-9-CM Codes	
Examination following rape and/or alleged physical abuse.	<i>Z04.4 (encounter for examination and observation following alleged rape...)</i>	V71.5 (observation following alleged rape or seduction)	
	- Z04.41 (following alleged <i>adult</i> rape)		
	- Z04.42 (following alleged <i>child</i> rape)		
	<i>Z04.7 (encounter for examination and observation following alleged physical abuse...)</i>	V71.81 (observation and evaluation for suspected abuse and neglect)	
			- Z04.71 (following alleged <i>adult</i> physical abuse)
			- Z04.72 (following alleged <i>child</i> physical abuse)
	<i>Z04.8 (encounter for examination and observation for other specified reasons...)</i>	No ICD9 code available.	
			- Z04.81 (following forced sexual exploitation); <i>new 2019</i>
			- Z04.82 (following forced labor exploitation); <i>new 2019</i>
History of physical, sexual, and/or psychological abuse in childhood.	Z62.81 (personal history of abuse in childhood...)	Translated code too broad for inclusion.	
	- Z62.810 (history of physical and sexual abuse in childhood)		
	- Z62.811 (history of psychological abuse in childhood)		
	- Z62.812 (history of neglect in childhood)		
	- Z62.813 (history of forced labor or sexual exploitation in childhood); <i>new 2019</i>	No ICD9 code available.	
	- Z62.814 (personal history of child financial abuse); <i>new 2023</i>	No ICD9 code available	
	- Z62.815 (personal history of intimate partner abuse in childhood); <i>new 2023</i>	No ICD9 code available	
	- Z62.819 (history of unspecified abuse in childhood)	V61.29 (above)	
Mental health services for victim	<i>Z69 (encounter for mental health services for victim and perpetrator of abuse)</i>	V61.21 (counseling for victim of child abuse)	



and perpetrator of abuse.	Z69.0 (encounter for mental health services for child abuse problems)	V61.22 (counseling for perpetrator of parental child abuse)
	- Z69.01 (encounter for mental health services for <i>parental</i> child abuse...)	
	- Z69.010 (for victim of parental child abuse)	
	- Z69.011 (for perpetrator of parental child abuse)	
	- Z69.02 (encounter for mental health services for <i>non-parental</i> child abuse...)	V61.21 (above)
	- Z69.020 (for victim of non-parental child abuse)	
	- Z69.021 (for perpetrator of non-parental child abuse)	V62.83 (counseling for perpetrator of physical/sexual abuse)
	Z69.1 (encounter for mental health services for <i>spousal or partner abuse</i> problems...)	V61.11 (counseling for victim of spousal and partner abuse)
	- Z69.11 (for victim of spousal or partner abuse)	V61.12 (counseling for perpetrator of spousal and partner abuse)
	- Z69.12 (for perpetrator of spousal or partner abuse)	
	Z69.8 (encounter for mental health services for <i>victim or perpetrator</i> of other abuse...)	<i>Translated code too broad for inclusion.</i>
	- Z69.81 (for victim of other abuses); <i>includes rape victim.</i>	
	- Z69.82 (for perpetrator of other abuse)	
	History of <i>adult</i> abuse, forced labor and sexual exploitation.	<i>Z91.4 (personal history of psychological trauma, not elsewhere classified)</i>
Z91.41 (personal history of <i>adult</i> abuse...)		V15.41 (history of physical abuse)
- Z91.410 (adult physical and sexual abuse)		V15.42 (history of emotional abuse)
- Z91.411 (adult psychological abuse)		V15.49 (other psychosocial trauma)
- Z91.412 (adult neglect)		
- Z91.413 (adult financial abuse); <i>new 2023</i>		
- Z91.414 (adult intimate partner abuse); <i>new 2023</i>		
- Z91.419 (unspecified adult abuse)		
Z91.42 (personal history of forced labor or sexual exploitation); <i>new 2019</i>		<i>No ICD9 code available.</i>



	Z91.49 (other personal history of psychological trauma, not elsewhere classified)	V15.49 (above)
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***Physical, Sexual, and Psychological Abuse, Maltreatment and Exploitation***

*(Victim of Violence; defined by O and T codes)*

<b>Factors</b>	<b>ICD-10-CM Codes</b>	<b>ICD-9-CM Codes</b>
<i>[A] initial encounter, [D] subsequent encounter, [S] sequela</i>		
<i>Physical abuse complicating pregnancy, childbirth, and the puerperium.</i>	<i>O9A.3 (physical abuse complicating pregnancy, childbirth, and the puerperium)</i>	<i>648.9 (other current conditions complicating pregnancy childbirth or the puerperium)</i>
	O9A.31 (physical abuse complicating pregnancy...)	<i>Translated codes too broad for inclusion.</i>
	- O9A.311 (first trimester)	
	- O9A.312 (second trimester)	
	- O9A.313 (third trimester)	
	- O9A.319 (unspecified trimester)	
	O9A.32 (physical abuse complicating childbirth)	
O9A.33 (physical abuse complicating puerperium)		
<i>Sexual abuse complicating pregnancy, childbirth, and the puerperium.</i>	<i>O9A.4 (sexual abuse complicating pregnancy, childbirth, and the puerperium)</i>	
	O9A.41 (sexual abuse complicating pregnancy...)	
	- O9A.411 (first trimester)	
	- O9A.412 (second trimester)	
	- O9A.413 (third trimester)	
	- O9A.419 (unspecified trimester)	
	O9A.42 (sexual abuse complicating childbirth)	
O9A.43 (sexual abuse complicating puerperium)		
<i>Psychological abuse complicating pregnancy, childbirth, and the puerperium.</i>	<i>O9A.5 (psychological abuse complicating pregnancy, childbirth, and the puerperium)</i>	
	- O9A.51 (psychological abuse complicating pregnancy...)	
	- O9A.511 (first trimester)	



	<ul style="list-style-type: none"> <li>- O9A.512 (second trimester)</li> <li>- O9A.513 (third trimester)</li> <li>- O9A.519 (unspecified trimester)</li> <li>O9A.52 (psychological abuse complicating childbirth)</li> <li>O9A.53 (psychological abuse complicating puerperium)</li> </ul>	
Neglect and abandonment ( <i>confirmed</i> )	<i>T74 (adult and child abuse, neglect, and other maltreatment, confirmed)</i>	<i>995.5 (child maltreatment syndrome)</i>
	T74.0 (neglect or abandonment, <i>confirmed</i> )	995.84 (adult neglect, nutritional) 995.52 (child neglect, nutritional)
	<ul style="list-style-type: none"> <li>- T74.01 (<i>adult</i> neglect or abandonment, <i>confirmed</i>...)</li> <li>- T74.01X [A,D,S] (initial encounter, subsequent encounter, sequela)</li> </ul>	
	<ul style="list-style-type: none"> <li>- T74.02 (<i>child</i> neglect or abandonment, <i>confirmed</i>...)</li> <li>- T74.02X [A,D,S] (initial encounter, subsequent encounter, sequela)</li> </ul>	
Physical abuse ( <i>confirmed</i> )	T74.1 (physical abuse, <i>confirmed</i> )	995.81 (adult physical abuse) 995.54 (child physical abuse)
	<ul style="list-style-type: none"> <li>- T74.11 (<i>adult</i> physical abuse, <i>confirmed</i>...)</li> <li>- T74.11X [A,D,S] (initial encounter, subsequent encounter, sequela)</li> </ul>	
	<ul style="list-style-type: none"> <li>- T74.12 (<i>child</i> physical abuse, <i>confirmed</i>...)</li> <li>- T74.12X [A,D,S] (initial encounter, subsequent encounter, sequela)</li> </ul>	
Sexual abuse ( <i>confirmed</i> )	T74.2 (sexual abuse, <i>confirmed</i> )	995.83 (adult sexual abuse) 995.53 (child sexual abuse)
	<ul style="list-style-type: none"> <li>- T74.21 (<i>adult</i> sexual abuse, <i>confirmed</i>...)</li> <li>- T74.21X [A,D,S] (initial encounter, subsequent encounter, sequela)</li> </ul>	
	<ul style="list-style-type: none"> <li>- T74.22 (<i>child</i> sexual abuse, <i>confirmed</i>...)</li> <li>- T74.22X [A,D,S] (initial encounter, subsequent encounter, sequela)</li> </ul>	
Psychological abuse ( <i>confirmed</i> )	T74.3 (psychological abuse, <i>confirmed</i> )	995.82 (adult emotional/psychological abuse) 995.51 (child emotional/psychological abuse)
	<ul style="list-style-type: none"> <li>- T74.31 (<i>adult</i> psychological abuse, <i>confirmed</i>...)</li> <li>- T74.31X [A,D,S] (initial encounter, subsequent encounter, sequela)</li> </ul>	
	<ul style="list-style-type: none"> <li>- T74.32 (<i>child</i> psychological abuse, <i>confirmed</i>...)</li> </ul>	

	- T74.32X [A,D,S] (initial encounter, subsequent encounter, sequela)	
Shaken infant syndrome	T74.4 (shaken infant syndrome)	995.55 (shaken baby syndrome)
	- T74.4XX [A,D,S] (initial encounter, subsequent encounter, sequela)	
Forced sexual exploitation (confirmed)	T74.5 (forced sexual exploitation, <i>confirmed</i> )	<i>No ICD9 code available.</i>
	- T74.51 ( <i>adult</i> forced sexual exploitation, confirmed...); <i>new 2019</i>	
	- T74.51X [A,D,S] (initial encounter, subsequent encounter, sequela)	
Forced labor exploitation (confirmed)	- T74.52 ( <i>child</i> sexual exploitation, confirmed...); <i>new 2019</i>	
	- T74.52X [A,D,S] (initial encounter, subsequent encounter, sequela)	
	T74.6 (forced labor exploitation, <i>confirmed</i> )	<i>No ICD9 code available.</i>
- T74.61 ( <i>adult</i> forced labor exploitation, confirmed...); <i>new 2019</i>		
- T74.61X [A,D,S] (initial encounter, subsequent encounter, sequela)		
Unspecified maltreatment (confirmed)	- T74.62 ( <i>child</i> forced labor exploitation, confirmed...); <i>new 2019</i>	
	- T74.62X [A,D,S] (initial encounter, subsequent encounter, sequela);	
	T74.9 (unspecified maltreatment, <i>confirmed</i> )	995.80 (adult maltreatment, unspecified)
Financial Abuse (confirmed)	- T74.91 (unspecified <i>adult</i> maltreatment, confirmed...)	995.85 (other adult abuse and neglect)
	- T74.91X [A,D,S] (initial encounter, subsequent encounter, sequela)	995.50 (child abuse, unspecified)
	- T74.92 (unspecified <i>child</i> maltreatment, confirmed...)	995.59 (other child abuse and neglect)
Financial Abuse (confirmed)	- T74.92X [A,D,S] (initial encounter, subsequent encounter, sequela)	
	T74.A (financial abuse, <i>confirmed</i> ); <i>new 2023</i>	<i>No ICD9 code available.</i>
	- T74.A1 ( <i>adult</i> financial abuse, confirmed...)	
- T74.A1X [A,D,S] (initial encounter, subsequent encounter, sequela)		
Financial Abuse (confirmed)	- T74.A2 ( <i>child</i> financial abuse, confirmed...)	
	- T74.A2X [A,D,S] (initial encounter, subsequent encounter, sequela)	
	<i>T76 (adult and child abuse, neglect, and other maltreatment, suspected)</i>	995.84 (above)



Neglect and abandonment (suspected)	T76.0 (neglect or abandonment, <i>suspected</i> )	995.52 (above)
	- T76.01 ( <i>adult</i> neglect or abandonment, suspected...) - T76.01X [A,D,S] (initial encounter, subsequent encounter, sequela)	
	- T76.02 ( <i>child</i> neglect or abandonment, suspected...) - T76.02X [A,D,S] (initial encounter, subsequent encounter, sequela)	
Physical abuse (suspected)	T76.1 (physical abuse, <i>suspected</i> )	995.81 (above)
	- T76.11 ( <i>adult</i> physical abuse, suspected...) - T76.11X [A,D,S] (initial encounter, subsequent encounter, sequela)	995.54 (above)
	- T76.12 ( <i>child</i> physical abuse, suspected...) - T76.12X [A,D,S] (initial encounter, subsequent encounter, sequela)	
Sexual abuse (suspected)	T76.2 (sexual abuse, <i>suspected</i> )	995.83 (above)
	- T76.21 ( <i>adult</i> sexual abuse, <i>suspected</i> ...) - T76.21X [A,D,S] (initial encounter, subsequent encounter, sequela)	995.53 (above)
	- T76.22 ( <i>child</i> physical abuse, <i>suspected</i> ...) - T76.22X [A,D,S] (initial encounter, subsequent encounter, sequela)	
Psychological abuse (suspected)	T76.3 (psychological abuse, <i>suspected</i> )	995.82 (above)
	- T76.31 ( <i>adult</i> psychological abuse, suspected...) - T76.31X [A,D,S] (initial encounter, subsequent encounter, sequela)	995.51 (above)
	- T76.32 ( <i>child</i> psychological abuse, suspected...) - T76.32X [A,D,S] (initial encounter, subsequent encounter, sequela)	
Forced sexual exploitation (suspected)	T76.5 (forced sexual exploitation, <i>suspected</i> )	<i>No ICD9 code available.</i>
	- T76.51 ( <i>adult</i> forced sexual exploitation, suspected...); <i>new 2019</i> - T76.51X [A,D,S] (initial encounter, subsequent encounter, sequela)	
	- T76.52 ( <i>child</i> sexual exploitation, suspected...); <i>new 2019</i> - T76.52X [A,D,S] (initial encounter, subsequent encounter, sequela)	
	T76.6 (forced labor exploitation, <i>suspected</i> )	<i>No ICD9 code available.</i>



Forced labor exploitation (suspected)	- T76.61 ( <i>adult</i> forced labor exploitation, suspected...); <i>new 2019</i> - T76.61X [A,D,S] (initial encounter, subsequent encounter, sequela)	
	- T76.62 ( <i>child</i> forced labor exploitation, suspected...); <i>new 2019</i> - T76.62X [A,D,S] (initial encounter, subsequent encounter, sequela)	
Unspecified maltreatment (suspected)	T76.9 (unspecified maltreatment, <i>suspected</i> )	995.80 (above)
	- T76.91 (unspecified <i>adult</i> maltreatment, suspected...) - T76.91X [A,D,S] (initial encounter, subsequent encounter, sequela)	995.85 (above) 955.50 (above) 955.59 (above)
	- T76.92 (unspecified <i>child</i> maltreatment, suspected...) - T76.92X [A,D,S] (initial encounter, subsequent encounter, sequela)	
Financial abuse (suspected)	T76.A (financial abuse, <i>suspected</i> ); <i>new 2023</i>	<i>No ICD9 code available.</i>
	- T76.A1 ( <i>adult</i> financial abuse, suspected...) - T76.A1X [A,D,S] (initial encounter, subsequent encounter, sequela)	
	- T76.A2 ( <i>child</i> financial abuse, suspected...) - T76.A2X [A,D,S] (initial encounter, subsequent encounter, sequela)	

### **Assault; By Cause**

(Victim of Violence; defined by X and Y0 codes)

Factors	ICD-10-CM Codes	ICD-9-CM Codes
[A] initial encounter, [D] subsequent encounter, [S] sequela		
Assault by drowning and submersion	<i>X92 (assault by drowning and submersion)</i>	E964 (assault by submersion, [drowning])
	X92.0 (assault by drowning and submersion while in bathtub...) - X92.0XX [A,D,S] (initial encounter, subsequent encounter, sequela)	
	X92.1 (assault by drowning and submersion while in swimming pool...) - X92.1XX [A,D,S] (initial encounter, subsequent encounter, sequela)	
	X92.2 (assault by drowning and submersion after push in swimming pool...)	



	<ul style="list-style-type: none"> <li>- X92.2XX [A,D,S] (initial encounter, subsequent encounter, sequela)</li> </ul>	
	<p>X92.3 (assault by drowning and submersion in natural water...)</p> <ul style="list-style-type: none"> <li>- X92.3XX [A,D,S] (initial encounter, subsequent encounter, sequela)</li> </ul>	
	<p>X92.8 (other assault by drowning and submersion...)</p> <ul style="list-style-type: none"> <li>- X92.8XX [A,D,S] (initial encounter, subsequent encounter, sequela)</li> </ul>	
	<p>X92.9 (assault by drowning and submersion, unspecified...)</p> <ul style="list-style-type: none"> <li>- X92.9XX [A,D,S] (initial encounter, subsequent encounter, sequela)</li> </ul>	
Assault by firearm	<p><i>X93 (assault by handgun discharge)</i></p>	E965.0 (assault by handgun)
	<ul style="list-style-type: none"> <li>- X93.0XX [A,D,S] (initial encounter, subsequent encounter, sequela)</li> </ul>	
	<p><i>X94 (assault by rifle, shotgun, and larger firearm discharge)</i></p>	--
	<p>X94.0 (assault by shotgun ...)</p> <ul style="list-style-type: none"> <li>- X94.0XX [A,D,S] (initial encounter, subsequent encounter, sequela)</li> </ul>	E965.1 (assault by shotgun)
	<p>X94.1 (assault by hunting rifle...)</p> <ul style="list-style-type: none"> <li>- X94.1XX [A,D,S] (initial encounter, subsequent encounter, sequela)</li> </ul>	E965.2 (assault by hunting rifle)
	<p>X94.2 (assault by machine gun...)</p> <ul style="list-style-type: none"> <li>- X94.2XX [A,D,S] (initial encounter, subsequent encounter, sequela)</li> </ul>	E965.3 (assault by military firearms)
	<p>X94.8 (assault by other large firearm discharge...)</p> <ul style="list-style-type: none"> <li>- X94.8XX [A,D,S] (initial encounter, subsequent encounter, sequela)</li> </ul>	E965.4 (assault by other and unspecified firearm)
	<p>X94.9 (assault by unspecified larger firearm discharge...)</p> <ul style="list-style-type: none"> <li>- X94.9XX [A,D,S] (initial encounter, subsequent encounter, sequela)</li> </ul>	
Assault by gas, air, or spring-operated guns	<p><i>X95 (assault by gas, air, or spring-operated guns)</i></p>	--
	<p>X95.01 (assault by air gun discharge ...)</p> <ul style="list-style-type: none"> <li>- X95.01X [A,D,S] (initial encounter, subsequent encounter, sequela)</li> </ul>	E968.6 (assault by air gun)
	<p>X95.02 (assault by paintball gun discharge...)</p> <ul style="list-style-type: none"> <li>- X95.02X [A,D,S] (initial encounter, subsequent encounter, sequela)</li> </ul>	E965.4 (above)



	<p>X95.09 (assault by other gas, air or spring-operated gun...)</p> <ul style="list-style-type: none"> <li>- X95.09X [A,D,S] (initial encounter, subsequent encounter, sequela)</li> </ul>	
	<p>X95.8 (assault by other firearm discharge...)</p> <ul style="list-style-type: none"> <li>- X95.8XX [A,D,S] (initial encounter, subsequent encounter, sequela)</li> </ul>	
	<p>X95.9 (assault by unspecified larger firearm discharge...)</p> <ul style="list-style-type: none"> <li>- X95.9XX [A,D,S] (initial encounter, subsequent encounter, sequela)</li> </ul>	
Assault by explosive material	<i>X96 (assault by explosive material)</i>	--
	<p>X96.0 (assault by antipersonnel bomb ...)</p> <ul style="list-style-type: none"> <li>- X96.0XX [A,D,S] (initial encounter, subsequent encounter, sequela)</li> </ul>	E965.5 (assault by antipersonnel bomb)
	<p>X96.1 (assault by gasoline bomb ...)</p> <ul style="list-style-type: none"> <li>- X96.1XX [A,D,S] (initial encounter, subsequent encounter, sequela)</li> </ul>	E965.6 (assault by gasoline bomb)
	<p>X96.2 (assault by letter bomb ...)</p> <ul style="list-style-type: none"> <li>- X96.2XX [A,D,S] (initial encounter, subsequent encounter, sequela)</li> </ul>	E965.7 (assault by letter bomb)
	<p>X96.3 (assault by fertilizer bomb ...)</p> <ul style="list-style-type: none"> <li>- X96.3XX [A,D,S] (initial encounter, subsequent encounter, sequela)</li> </ul>	E965.8 (assault by other specified explosive)
	<p>X96.4 (assault by pipe bomb ...)</p> <ul style="list-style-type: none"> <li>- X96.4XX [A,D,S] (initial encounter, subsequent encounter, sequela)</li> </ul>	
	<p>X96.8 (assault by other specified explosive...)</p> <ul style="list-style-type: none"> <li>- X96.8XX [A,D,S] (initial encounter, subsequent encounter, sequela)</li> </ul>	
	<p>X96.9 (assault by unspecified explosive...)</p> <ul style="list-style-type: none"> <li>- X96.8XX [A,D,S] (initial encounter, subsequent encounter, sequela)</li> </ul>	E965.9 (assault by unspecified explosive)
Assault by smoke, fire, and flames	<i>X97 (assault by smoke, fire, and flames)</i>	E968.0 (assault by fire)
	<ul style="list-style-type: none"> <li>- X97.XXX [A,D,S] (initial encounter, subsequent encounter, sequela)</li> </ul>	
Assault by steam, hot vapors, and hot objects	<i>X98 (assault by steam, hot vapors, and hot objects)</i>	--
	<p>X98.0 (assault by steam or hot vapors ...)</p> <ul style="list-style-type: none"> <li>- X98.0XX [A,D,S] (initial encounter, subsequent encounter, sequela)</li> </ul>	E968.8 (assault by other specified means)
	X98.1 (assault by hot tap water ...)	E98.3 (assault by hot liquid)



	- X98.1XX [A,D,S] (initial encounter, subsequent encounter, sequela)	
	X98.2 (assault by hot fluids ...) - X98.2XX [A,D,S] (initial encounter, subsequent encounter, sequela)	
	X98.3 (assault by hot household appliance ...) - X98.3XX [A,D,S] (initial encounter, subsequent encounter, sequela)	E968.8 (above)
	X98.8 (assault by other hot objects ...) - X98.8XX [A,D,S] (initial encounter, subsequent encounter, sequela)	
	X98.9 (assault by unspecified hot objects ...) - X98.9XX [A,D,S] (initial encounter, subsequent encounter, sequela)	
Assault by sharp objects	<i>X99 (assault by sharp object)</i>	--
	X99.0 (assault by sharp glass ...) - X99.0XX [A,D,S] (initial encounter, subsequent encounter, sequela)	E966 (assault by cutting and piercing instrument)
	X99.1 (assault by knife ...) - X99.1XX [A,D,S] (initial encounter, subsequent encounter, sequela)	
	X99.2 (assault by sword or dagger ...) - X99.2XX [A,D,S] (initial encounter, subsequent encounter, sequela)	
	X99.8 (assault by other sharp object ...) - X99.8XX [A,D,S] (initial encounter, subsequent encounter, sequela)	
	X99.9 (assault by unspecified sharp object ...) - X99.9XX [A,D,S] (initial encounter, subsequent encounter, sequela)	
Assault by blunt object	<i>Y00 (assault by blunt object)</i>	E968.2 (assault by striking by blunt or thrown object)
	- Y00.XXX [A,D,S] (initial encounter, subsequent encounter, sequela)	
Assault by pushing from high place or pushing in front of moving object.	<i>Y01 (assault by pushing from high place)</i>	E968.1 (assault by pushing from a high place)
	- Y01.XXX [A,D,S] (initial encounter, subsequent encounter, sequela)	
	<i>Y02 (assault by pushing or placing victim in front of moving object)</i>	--
	Y02.0 (assault by pushing or placing victim in front of motor vehicle) - Y02.0XX [A,D,S] (initial encounter, subsequent encounter, sequela)	E968.5 (assault by transport vehicle)



	<p>Y02.1 (assault by pushing or placing victim in front of subway train)</p> <ul style="list-style-type: none"> <li>- Y02.1XX [A,D,S] (initial encounter, subsequent encounter, sequela)</li> </ul>	
	<p>Y02.8 (assault by pushing or placing victim in front of other moving object)</p> <ul style="list-style-type: none"> <li>- Y02.8XX [A,D,S] (initial encounter, subsequent encounter, sequela)</li> </ul>	
Assault by crashing motor vehicle	<i>Y03 (assault by crashing of motor vehicle)</i>	--
	<p>Y03.0 (assault by being hit or run over by a motor vehicle)</p> <ul style="list-style-type: none"> <li>- Y03.0XX [A,D,S] (initial encounter, subsequent encounter, sequela)</li> </ul>	E968.5 (above)
	<p>Y03.8 (other assault by crashing of motor vehicle)</p> <ul style="list-style-type: none"> <li>- Y03.8XX [A,D,S] (initial encounter, subsequent encounter, sequela)</li> </ul>	
Assault by bodily force	<i>Y04 (assault by bodily force)</i>	--
	<p>Y04.0 (assault by unarmed brawl or fight)</p> <ul style="list-style-type: none"> <li>- Y04.0XX [A,D,S] (initial encounter, subsequent encounter, sequela)</li> </ul>	E960.0 (unarmed fight or brawl)
	<p>Y04.1 (assault by human bite)</p> <ul style="list-style-type: none"> <li>- Y04.1XX [A,D,S] (initial encounter, subsequent encounter, sequela)</li> </ul>	E968.7 (assault by human bite)
	<p>Y04.2 (assault by strike against or bumped into by another person)</p> <ul style="list-style-type: none"> <li>- Y04.2XX [A,D,S] (initial encounter, subsequent encounter, sequela)</li> </ul>	E960.0 (above)
	<p>Y04.8 (assault by other bodily force)</p> <ul style="list-style-type: none"> <li>- Y04.8XX [A,D,S] (initial encounter, subsequent encounter, sequela)</li> </ul>	
Assault by other means	<i>Y08 (assault by other specific means)</i>	--
	<p>Y08.0 (assault by strike by sport equipment)</p> <ul style="list-style-type: none"> <li>- Y08.01 (assault by strike by hockey stick)</li> <li>- Y08.01X [A,D,S] (initial encounter, subsequent encounter, sequela)</li> </ul>	E968.2 (above)
	<ul style="list-style-type: none"> <li>- Y08.02 (assault by strike by baseball bat)</li> <li>- Y08.02X [A,D,S] (initial encounter, subsequent encounter, sequela)</li> </ul>	
	<ul style="list-style-type: none"> <li>- Y08.09 (assault by strike by other specified type of sport equipment)</li> <li>- Y08.09X [A,D,S] (initial encounter, subsequent encounter, sequela)</li> </ul>	



	Y08.81 (assault by crashing of aircraft) - Y08.81X [A,D,S] (initial encounter, subsequent encounter, sequela)	E968.5 (above)
	Y08.89 (assault by other specific means) - Y08.89X [A,D,S] (initial encounter, subsequent encounter, sequela)	E968.8 (above)
	<i>Y09 (assault by unspecified means)</i>	

*Perpetrator of Violence; (defined Y07 codes)*

Factors	ICD-10-CM Codes	ICD-9-CM Codes
[A] initial encounter, [D] subsequent encounter, [S] sequela		
	<i>Y07 (perpetrator of assault, maltreatment, and neglect; includes perpetrator of verbal abuse)</i>	--
Spouse or partner	Y07.0 (spouse or partner, perpetrator of maltreatment and neglect...)	E967.3 (perpetrator of child and adult abuse, by spouse or partner)
	Y07.01 (husband)	E968.4 (assault by criminal neglect)
	- Y07.010 (husband, <i>current</i> , perpetrator of maltreatment and neglect); <i>new 2023</i>	
	- Y07.011 (husband, <i>former</i> , perpetrator of maltreatment and neglect); <i>new 2023</i>	
	Y07.02 (wife)	
	- Y07.020 (wife, <i>current</i> , perpetrator of maltreatment and neglect); <i>new 2023</i>	
	- Y07.021 (wife, <i>former</i> , perpetrator of maltreatment and neglect); <i>new 2023</i>	
	Y07.03 (male partner)	
	- Y07.030 (male partner, <i>current</i> , perpetrator of maltreatment and neglect); <i>new 2023</i>	
	- Y07.031 (male partner, <i>former</i> , perpetrator of maltreatment and neglect); <i>new 2023</i>	
	Y07.04 (female partner)	
	- Y07.040 (female partner, <i>current</i> , perpetrator of maltreatment and neglect); <i>new 2023</i>	
	- Y07.041 (female partner, <i>former</i> , perpetrator of maltreatment and neglect); <i>new 2023</i>	
	Y07.05 (partner, <i>current</i> ); <i>new 2023</i>	



	- Y07.050 (non-binary partner, <i>current</i> , perpetrator of maltreatment and neglect)		
	- Y07.051 (non-binary partner, <i>former</i> , perpetrator of maltreatment and neglect)		
Parent	Y07.1 (parent [adoptive, biological], perpetrator of maltreatment and neglect...)	E967.0 (perpetrator of child and adult abuse, by father, stepfather, or boyfriend)	
	- Y07.11 (biological father)	E967.2 (perpetrator of child and adult abuse, by mother, stepmother, or girlfriend)	
	- Y07.12 (biological mother)		
	- Y07.13 (adoptive father)	E968.4 (above)	
	- Y07.14 (adoptive mother)		
Other family member	Y07.4 (other family member, perpetrator of maltreatment and neglect...)	E967.5 (perpetrator of child and adult abuse, by sibling)	
	- Y07.41 (sibling perpetrator of maltreatment and neglect...)	E968.4 (above)	
	- Y07.410 (brother)		
	- Y07.410 (sister)		
	- Y07.42 (foster parent perpetrator of maltreatment and neglect...)	E967.8 (perpetrator of child and adult abuse, by non-related caregiver); or	
	- Y07.420 (foster father)	E968.4 (above)	
	- Y07.421 (foster mother)		
	- Y07.43 (stepparent or stepsibling perpetrator of maltreatment and neglect...)	E967.0 (above)	
	- Y07.430 (stepfather)	E967.2 (above)	
	- Y07.432 (male friend or parent co-residing in household)	E967.5 (above)	
	- Y07.433 (stepmother)		
	- Y07.434 (female friend co-residing in household)		
	- Y07.435 (stepbrother)		
	- Y07.436 (stepsister)		
	Other family member <i>(continued)</i>	Y07.44 (child, perpetrator of maltreatment and neglect...); <i>new 2023</i>	
		Y07.45 (grandchild, perpetrator of maltreatment and neglect...); <i>new 2023</i>	
Y07.46 (grandparent, perpetrator of maltreatment and neglect...); <i>new 2023</i>			
Y07.47 (parental sibling, perpetrator of maltreatment and neglect...); <i>new 2023</i>			

	Y07.49 (other family member, perpetrator of maltreatment and neglect...)	E967.7 (perpetrator of child and adult abuse, by other relative); or
	- Y07.490 (male cousin)	E967.1 (perpetrator of child and adult abuse, by other specified person)
	- Y07.491 (female cousin)	
	- Y07.499 (other family member)	E98.4 (above)
Non-family member	Y07.5 (non-family member, perpetrator of maltreatment and neglect...)	E97.4 (perpetrator of child abuse, by child)
	- Y07.50 (unspecified non-family member)	E967.8 (above)
	- Y07.51 (daycare provider, perpetrator of maltreatment and neglect...)	
	- Y07.510 (at-home childcare provider)	
	- Y07.511 (daycare center childcare provider)	
	- Y07.512 (at home adult care provider)	
	- Y07.513 (adult care center provider)	
	- Y07.519 (unspecified daycare provider)	
	- Y07.52 (healthcare provider, perpetrator of maltreatment and neglect...)	
	- Y07.521 (mental health provider)	
	- Y07.528 (other therapist or healthcare provider)	
	- Y07.529 (unspecified health care provider)	
	- Y07.53 (teacher or instructor, perpetrator of maltreatment and neglect)	
	- Y07.54 (acquaintance or friend, perpetrator of maltreatment and neglect); <i>new 2023</i>	
	- Y07.59 (other non-family member, perpetrator of maltreatment and neglect)	
Y07.6 (multiple perpetrators of maltreatment and neglect); <i>new 2019</i>	<i>No ICD9 code available.</i>	
Y07.9 (unspecified perpetrators of maltreatment and neglect)	E967.9 (perpetrator of child and adult abuse, by unspecified person)	

### 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 for the purpose of epidemiological surveillance of violence, abuse, and maltreatment factors that influence health. 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 health 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.<sup>1</sup> 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.
- In ICD10 most injury diagnosis codes have a 7<sup>th</sup> 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 7<sup>th</sup> 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 7<sup>th</sup> digit (A) are converted to ICD9 and only one corresponding code is included in the code set. Converting ICD10 codes with 7<sup>th</sup> digits (D) and (S) requires multiple ICD9 codes from various categories, which is not feasible for analysis.

## **Reports**

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

- Periodic *MSMR* articles.

<sup>1</sup> Blossnich, 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](https://link.springer.com/article/10.1007/s11606-019-05447-z). Accessed April 2023.



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

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Oct 2023	Case definition reviewed and adopted by the AFHSD Surveillance Methods and Standards (SMS) working group.
Apr 2023	Case definition developed by behavioral health experts at DCPH and by AFHSD Epidemiology and Analysis (E&A) staff.

### Comments

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- 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*.

