

Table II. 2019 final ICD-10-CM external cause-of-injury matrix for reporting mechanism and intent of injury (for demonstration purposes)

Mechanism of injury	Intent of injury						Legal intervention/ war operations
	All	Unintentional	Intentional self-harm	Assault	Undetermined		
Cut/pierce	W25-W29, W45, W46, X78, X99, Y28, Y35.4	W25-W29, W45, W46	X78	X99	Y28	Y35.4	
Drowning/submersion	T75.1, V90†, V92†, [W16] (with 6th character = 1), W16.41, W16.91, W22.041, W22.041, W65-W74, X71, X92, Y21	V90†, V92†, [W16] (with 6th character = 1), W16.41, W16.91, W22.041, W65-W74	X71	X92	Y21, T75.1	...	
Fall	[V00] (with 6th character = 1), W00-W15, [W16] (with 6th character = 2), W16.42, W16.92, W17, W18.1-W18.3, W19, X80, Y01, Y30	[V00] (with 6th character = 1), W00-W15, [W16] (with 6th character = 2), W16.42, W16.92, W17, W18.1-W18.3, W19	X80	Y01	Y30	...	
Fire/burn	T54.1-T54.9, X00-X19, X76, X77, X97, X98, Y26, Y27, Y36.30, Y36.33, Y36.39, Y37.30, Y37.33, Y37.39, Y38.3	T54.1X1, T54.2X1, T54.3X1, T54.91, X00-X19	T54.1X2, T54.2X2, T54.3X2, T54.92, X76, X77, X78	T54.1X3, T54.2X3, T54.3X3, T54.93, X97, X98, X98.3, X97, X98.3	T54.1X4, T54.2X4, T54.3X4, T54.94, Y26, Y27, Y26	Y36.30, Y36.33, Y36.39, Y37.30, Y37.33, Y37.39	
Fire/flare	X00-X08, X76, X97, Y26, Y36.30, Y36.33, Y36.39, Y37.30, Y37.33, Y37.39, Y38.3	X00-X08	X76	X97, X98.3	Y26	Y36.30, Y36.33, Y36.39, Y37.30, Y37.33, Y37.39	
Hot object/substance	T54.1-T54.9, X10-X19, X77, X98, Y27	T54.1X1, T54.2X1, T54.3X1, T54.91, X10-X19	T54.1X2, T54.2X2, T54.3X2, T54.92, X77, X78, X79	T54.1X3, T54.2X3, T54.3X3, T54.93, X98, X99, X95.9, Y38.4	T54.1X4, T54.2X4, T54.3X4, T54.94, Y27, Y22, Y23, Y24.8, Y24.9	...	
Firearm	W32, W33, W34.00, W34.09, W34.10, W34.19, X72, X73, X74.8, X74.9, X93, X94, X95.8, X95.9, Y22, Y23, Y24.8, Y24.9, Y35.00-Y35.03, Y35.09, Y36.42, Y36.43, Y36.92, Y37.42, Y37.43, Y37.92, Y38.4	W32, W33, W34.00, W34.09, W34.10, W34.19	X72, X73, X74.8, X74.9	X93, X94, X95.8, X95.9, Y38.4	Y22, Y23, Y24.8, Y24.9	Y35.00-Y35.03, Y35.09, Y36.42, Y36.43, Y36.92, Y37.42, Y37.43, Y37.92	
Machinery	W24, W30, W31	W24, W30, W31	...	...	...	...
All transportation	V01-V89, V91, V93-V99, X81.0, X81.1, X82, X83.0, Y02.0, Y02.1, Y03, Y08.81, Y32, Y36.1, Y37.1, Y38.1	V01-V89, V91, V93-V99	X81.0, X81.1, X82, X83.0	Y02.0, Y02.1, Y03, Y08.81, Y38.1	Y32	Y36.1, Y37.1	
Motor vehicle-Traffic (MVT)	[V02-V04] (with 4th character = 1, 9), V09.2, V09.3, [V12-V14] (with 4th character = 3, 4, 5, 9), V19.4-V19.6, V19.9, [V20-V28] (with 4th character = 3, 4, 5, 9), V29.4-V29.9, [V30-V79] (with 4th character = 4, 5, 6, 7, 8, 9), [V83-V86] (with 4th character = 0, 1, 2, 3), V80.3-V80.5, V81.1, V82.1, V87.0-V87.8†, V89.2†, X81.0, X82, Y02.0, Y03, Y32	[V02-V04] (with 4th character = 1, 9), V09.2, V09.3, [V12-V14] (with 4th character = 3, 4, 5, 9), V19.4-V19.6, V19.9, [V20-V28] (with 4th character = 3, 4, 5, 9), V29.4-V29.9, [V30-V79] (with 4th character = 4, 5, 6, 7, 8, 9), [V83-V86] (with 4th character = 0, 1, 2, 3), V80.3-V80.5, V81.1, V82.1, V87.0-V87.8†, V89.2†	X81.0, X82	Y02.0, Y03	Y32	...	
MVT-Occupant	[V30-V79] (with 4th character = 4, 5, 6, 7, 8, 9), [V83-V86] (with 4th character = 0, 1, 2, 3), V87.0-V87.8†, V89.2†, X82, Y03.8	[V30-V79] (with 4th character = 4, 5, 6, 7, 8, 9), [V83-V86] (with 4th character = 0, 1, 2, 3), V87.0-V87.8†, V89.2†	X82	Y03.8	...	...
MVT-Motorcyclist	[V20-V28] (with 4th character = 3, 4, 5, 9), V29.4-V29.9	[V20-V28] (with 4th character = 3, 4, 5, 9), V29.4-V29.9	...	...	...	...
MVT-Pedal cyclist	[V12-V14] (with 4th character = 3, 4, 5, 9), V19.4-V19.6, V19.9†	[V12-V14] (with 4th character = 3, 4, 5, 9), V19.4-V19.6, V19.9†	...	...	...	...
MVT-Pedestrian	[V02-V04] (with 4th character = 1, 9), V09.2, V09.3†, Y02.0, Y03.0	[V02-V04] (with 4th character = 1, 9), V09.2, V09.3†	...	Y02.0, Y03.0	...	...
MVT-Other	V80.3-V80.5, V81.1, V82.1, X81.0	V80.3-V80.5, V81.1, V82.1	X81.0	...	...	...
MVT-Unspecified	Y32	...	...	...	Y32	...	

See footnotes at end of table.

Table II. 2019 final ICD-10-CM external cause-of-injury matrix for reporting mechanism and intent of injury (for demonstration purposes)—Con.

Mechanism of injury	Intent of injury						Legal intervention/ war operations
	All	Unintentional	Intentional self-harm	Assault	Undetermined		
Motor vehicle–Nontraffic	[V20–V29] (with 4th character = 0, 1, 2), V29.3, [V30–V79] (with 4th character = 0, 1, 2, 3), V81.0, V82.0, V84.5–V84.9, V85.5–V85.9, [V86.5–V86.7, V86.9] (with 5th character = 1, 4, 5, 6), V88.0–V88.8, V89.0	[V20–V29] (with 4th character = 0, 1, 2), V29.3, [V30–V79] (with 4th character = 0, 1, 2, 3), V81.0, V82.0, V84.5–V84.9, V85.5–V85.9, [V86.5–V86.7, V86.9] (with 5th character = 1, 4, 5, 6), V88.0–V88.8, V89.0
Pedal cyclist, other	V10, V11, [V12–V14] (with 4th character = 0, 1, 2), V15–V18, V19.0–V19.3, V19.8	V10, V11, [V12–V14] (with 4th character = 0, 1, 2), V15–V18, V19.0–V19.3, V19.8	...	...	...	...
Pedestrian, other	V01, V02.0, V03.0, V04.0, V05, V06, V09.0, V09.1, V09.9	V01, V02.0, V03.0, V04.0, V05, V06, V09.0, V09.1, V09.9	...	...	...	...
Other land transport	V80.0–V80.2, V80.6–V80.9, V81.2–V81.9, V82.2–V82.9, V83.4–V83.9, V84.4, V85.4, V86.4, [V86.5–V86.9] (with 5th character = 2, 3, 9), V87.9, V88.9, V89.1, V89.3, V89.9, V89.9, X81.1, Y02.1	V80.0–V80.2, V80.6–V80.9, V81.2–V81.9, V82.2–V82.9, V83.4–V83.9, V84.4, V85.4, V86.4, [V86.5–V86.9] (with 5th character = 2, 3, 9), V87.9, V88.9, V89.1, V89.3, V89.9, V91, V93–V99, X83.0, Y08.81, Y36.1, Y37.1, Y38.1	X81.1	Y02.1
Other transport	V91, V93–V99, X83.0, Y08.81, Y36.1, Y37.1, Y38.1	V91, V93–V99	X83.0	Y08.81, Y38.1	...	Y36.1, Y37.1	
Natural/environmental	T63, T65.82, T73.0–T73.2, T73.8, T73.9, T75.0, T75.2, T75.3, W42, W53–W64, W92–W94, W99, X30–X39, X52, X83.2	[T63.0–T63.8] (with 6th character = 1), T63.91, T65.821, T73.0–T73.2, T73.8, T73.9, T75.0, T75.2, T75.3, W42, W42, W53–W64, W92–W94, W99, X30–X39, X52	[T63.0–T63.8] (with 6th character = 2), T63.92, T65.822, X83.2	[T63.0–T63.8] (with 6th character = 3), T63.93, T65.823	[T63.0–T63.8] (with 6th character = 4), T63.94, T65.824
Bites and stings, nonvenomous	[W53, W55, W56, W58, W59, W61] (with 5th character = 1), W54.0, W57	[W53, W55, W56, W58, W59, W61] (with 5th character = 1), W54.0, W57	...	...	...	...
Bites and stings, venomous	T63.0–T63.6, T63.8, T63.9	[T63.0–T63.6, T63.8] (with 6th character = 1), T63.91	...	...	...	...
Natural/environmental, other	T63.7, T65.82, T73.0–T73.2, T73.8, T73.9, T75.0, T75.2, T75.3, W42, [W53] (with 5th character = 9), W54.1, W54.8, W55.03, W55.09, [W55.1–W56.8] (with 5th character = 2, 9), [W58, W59, W61] (with 5th character = 2, 3, 9), W60, W62, W64, W92–W94, W99, X30–X39, X52, X83.2	T63.711, T63.791, T65.821, T73.0–T73.2, T73.8, T73.9, T75.0, T75.2, T75.3, W42, [W53] (with 5th character = 9), W54.1, W54.8, W55.03, W55.09, [W55.1–W56.8] (with 5th character = 2, 9), [W58, W59, W61] (with 5th character = 2, 3, 9), W60, W62, W64, W92–W94, W99, X30–X39, X52	T63.712, T63.792, T65.822, X83.2	T63.713, T63.793, T65.823	T63.714, T63.794, T65.824	...	
Overexertion	T73.3, W18.4, X50	T73.3, W18.4, X50	

See footnotes at end of table.

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Mechanism of injury	All	Unintentional	Intentional self-harm	Assault	Undetermined	Legal intervention/ war operations	
		Intent of injury					
Poisoning	[T36–T53, T55–T62, T65.OX–T65.81, T65.83, T65.89] (with 6th character = 1, 2, 3, 4), [T36.9, T37.9, T39.9, T41.4, T42.7, T43.9, T45.9, T47.9, T49.9, T51.9, T52.9, T53.9, T56.9, T57.9, T58.0, T58.1, T58.9, T59.9, T60.9, T61.0, T61.1, T61.9, T62.9, T64, T65.9] (with 5th character = 1, 2, 3, 4), T54.0, Y35.2, Y36.7, Y37.7, Y38.7	[T36–T53, T55–T62, T65.OX–T65.81, T65.83, T65.89] (with 6th character = 1), [T36.9, T37.9, T39.9, T41.4, T42.7, T43.9, T45.9, T47.9, T49.9, T51.9, T52.9, T53.9, T56.9, T57.9, T58.0, T58.1, T58.9, T59.9, T60.9, T61.0, T61.1, T61.9, T62.9, T64, T65.9] (with 5th character = 1), T54.OX1	[T36–T53, T55–T62, T65.OX–T65.81, T65.83, T65.89] (with 6th character = 2), [T36.9, T37.9, T39.9, T41.4, T42.7, T43.9, T45.9, T47.9, T49.9, T51.9, T52.9, T53.9, T56.9, T57.9, T58.0, T58.1, T58.9, T59.9, T60.9, T61.0, T61.1, T61.9, T62.9, T64, T65.9] (with 5th character = 2), T54.OX2	[T36–T53, T55–T62, T65.OX–T65.81, T65.83, T65.89] (with 6th character = 3), [T36.9, T37.9, T39.9, T41.4, T42.7, T43.9, T45.9, T47.9, T49.9] (with 5th character = 3), T54.OX3, Y38.7	[T36–T53, T55–T62, T65.OX–T65.81, T65.83, T65.89] (with 6th character = 4), [T36.9, T37.9, T39.9, T41.4, T42.7, T43.9, T45.9, T47.9, T49.9] (with 5th character = 4), T54.OX4	[T36–T53, T55–T62, T65.OX–T65.81, T65.83, T65.89] (with 6th character = 4), [T36.9, T37.9, T39.9, T41.4, T42.7, T43.9, T45.9, T47.9, T49.9] (with 5th character = 4), T54.OX4	Y35.2, Y36.7, Y37.7
Drug	[T36–T50] (with 6th character = 1, 2, 3, 4), [T36.9, T37.9, T39.9, T41.4, T42.7, T43.9, T45.9, T47.9, T49.9] (with 5th character = 1, 2, 3, 4)	[T36–T50] (with 6th character = 1), [T36.9, T37.9, T39.9, T41.4, T42.7, T43.9, T45.9, T47.9, T49.9] (with 5th character = 1)	[T36–T50] (with 6th character = 2), [T36.9, T37.9, T39.9, T41.4, T42.7, T43.9, T45.9, T47.9, T49.9] (with 5th character = 2)	[T36–T50] (with 6th character = 3), [T36.9, T37.9, T39.9, T41.4, T42.7, T43.9, T45.9, T47.9, T49.9] (with 5th character = 3)	[T36–T50] (with 6th character = 4), [T36.9, T37.9, T39.9, T41.4, T42.7, T43.9, T45.9, T47.9, T49.9] (with 5th character = 4)	...	
Nondrug	T51–T53, T54.0, T55–T62, T64, 65.OX–T65.81, T65.83, T65.89, T65.9, Y35.2, Y36.7, Y37.7, Y38.7	[T51–T53, T55–T62, T65.OX–T65.81, T65.83, T65.89] (with 6th character = 1), [T51.9, T52.9, T53.9, T56.9, T57.9, T58.0, T58.1, T58.9, T59.9, T60.9, T61.0, T61.1, T61.9, T62.9, T64, T65.9] (with 5th character = 1), T54.OX1	[T51–T53, T55–T62, T65.OX–T65.81, T65.83, T65.89] (with 6th character = 2), [T51.9, T52.9, T53.9, T56.9, T57.9, T58.0, T58.1, T58.9, T59.9, T60.9, T61.0, T61.1, T61.9, T62.9, T64, T65.9] (with 5th character = 2), T54.OX2	[T51–T53, T55–T62, T65.OX–T65.81, T65.83, T65.89] (with 6th character = 3), [T51.9, T52.9, T53.9, T56.9, T57.9, T58.0, T58.1, T58.9, T59.9, T60.9, T61.0, T61.1, T61.9, T62.9, T64, T65.9] (with 5th character = 3), T54.OX3, Y38.7	[T51–T53, T55–T62, T65.OX–T65.81, T65.83, T65.89] (with 6th character = 4), [T51.9, T52.9, T53.9, T56.9, T57.9, T58.0, T58.1, T58.9, T59.9, T60.9, T61.0, T61.1, T61.9, T62.9, T64, T65.9] (with 5th character = 4), T54.OX4	[T51–T53, T55–T62, T65.OX–T65.81, T65.83, T65.89] (with 6th character = 4), [T51.9, T52.9, T53.9, T56.9, T57.9, T58.0, T58.1, T58.9, T59.9, T60.9, T61.0, T61.1, T61.9, T62.9, T64, T65.9] (with 5th character = 4), T54.OX4	Y35.2, Y36.7, Y37.7
Struck by/against	V00.0, [V00.1–V00.8] (with 6th character = 2), W18.0, W20, W21, W22.01–W22.03, W22.042, W22.09, W22.1, W22.8, W50–W52, X79, Y00, Y04, Y08.0, Y29, Y35.3, Y35.81, Y36.44, Y37.44	V00.0, [V00.1–V00.8] (with 6th character = 2), W18.0, W20, W21, W22.01–W22.03, W22.042, W22.09, W22.1, W22.8, W50–W52	V00.0, [V00.1–V00.8] (with 6th character = 2), W18.0, W20, W21, W22.01–W22.03, W22.042, W22.09, W22.1, W22.8, W50–W52	V00, Y04, Y08.0	Y29	Y29	Y35.3, Y35.81, Y36.44, Y37.44
Suffocation	[T71] (with 6th character = 0), T71, Y36.46, Y36.47, Y37.46, Y37.47	[T71] (with 6th character = 0), [T71] (with 6th character = 1), T71.20, T71.21, T71.29, T71.9	[T71] (with 6th character = 2)	[T71] (with 6th character = 3)	[T71] (with 6th character = 4)	[T71] (with 6th character = 4)	Y36.46, Y36.47, Y37.46, Y37.47

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	All	Unintentional	Intentional self-harm	Assault	Undetermined	
Other specified	T15, T16, T17, T17.1, [T17.20-T17.99] (with 6th character = 8), T18, T19, T74, T75.4, T76, [V00] (with 6th character = 8), W23, W34.01, W34.11, W35-W40, W49, W85-W90	T15, T16, T17, T17.1, [T17.2-T17.9] (with 6th character = 8), T18, T19, T75.4, [V00] (with 6th character = 8), W23, W34.01, W34.11, W35-W40, W49, W85-W90	X74.0, X75, X81.8, X83.1, X83.8	T74, T76, X95.0, X96, Y02.8, Y07, Y08.89, Y38.0, Y38.2, Y38.5, Y38.6, Y38.81, Y38.89, Y38.9	Y24.0, Y25, Y31, Y33	Y35.04, Y35.1, Y35.83, Y35.89, Y36.0, Y36.2, Y36.31, Y36.32, Y36.41, Y36.45, Y36.49, Y36.5, Y36.6, Y36.81-Y36.88, Y36.91, Y37.0, Y37.2, Y37.31, Y37.32, Y37.41, Y37.45, Y37.49, Y37.5, Y37.6, Y37.91
Other specified, child/adult abuse	T74, T76	...	...	T74, T76	...	...
Other specified, foreign body	T15, T16, T17, T17.1, [T17.2-T17.99] (with 6th character = 8), T18, T19	T15, T16, T17, T17.1, [T17.2-T17.9] (with 6th character = 8), T18, T19	...	...	...	...
Other specified, classifiable	T75.4, [V00] (with 6th character = 8), W23, W34.01, W34.11, W35-W40, W49, W85-W90, X74.0, X75, X81.8, X83.1, X95.0, X96, Y02.8, Y07, Y24.0, Y25, Y31, Y35.04, Y35.1, Y35.83, Y36.0, Y36.2, Y36.31, Y36.32, Y36.41, Y36.45, Y36.49, Y36.5, Y36.6, Y36.81-Y36.88, Y36.91, Y37.0, Y37.2, Y37.31, Y37.32, Y37.41, Y37.45, Y37.49, Y37.5, Y37.6, Y37.91, Y38.0, Y38.2, Y38.5, Y38.6, Y38.81, Y38.89, Y38.9	T75.4, [V00] (with 6th character = 8), W23, W34.01, W34.11, W35-W40, W49, W85-W90	X74.0, X75, X81.8, X83.1	X95.0, X96, Y02.8, Y07, Y38.0, Y38.2, Y38.5, Y38.6†, Y38.81, Y38.89, Y38.9	Y24.0, Y25, Y31	Y35.04, Y35.1, Y35.83, Y36.0, Y36.2, Y36.31, Y36.32, Y36.41, Y36.45, Y36.49, Y36.5, Y36.6, Y36.81-Y36.88, Y36.91, Y37.0, Y37.2, Y37.31, Y37.32, Y37.41, Y37.45, Y37.49, Y37.5, Y37.6, Y37.91
Other specified, not elsewhere classifiable	X83.8, Y08.89, Y33, Y35.89	...	X83.8, T14.91	Y08.89, Y09, Y38.80	Y33	Y35.89, Y35.9, Y36.89, Y36.90, Y37.90
Unspecified	T14.91, X58†, Y09, Y35.9, Y36.89, Y36.90, Y37.90, Y38.80	X58†	T14.91	Y09, Y38.80	...	Y35-Y37
All	T14.91, T15-T19, [T36-T65] (with 6th character = 1, 2, 3, or 4), [T36.9, T37.9, T39.9, T41.4, T42.7, T43.9, T45.9, T47.9, T49.9, T51.9, T52.9, T53.9, T54.9, T47.9, T49.9, T51.9, T52.9, T53.9, T54.9, T56.9, T57.9, T58.0, T58.1, T58.9, T59.9, T60.9, T61.0, T61.1, T61.9, T62.9, T63.9, T64, T65.9] (with 5th character = 1, 2, 3, or 4), T71, T72, T74, T76, T75.0-T75.4, V00-W99, X00-X58, X71-X83, X92-X99, Y00-Y09, Y21-Y33, Y35-X98	T15-T19, [T36-T65, T71] (with 6th character = 1), [T36.9, T37.9, T39.9, T41.4, T42.7, T43.9, T45.9, T47.9, T49.9, T51.9, T52.9, T53.9, T54.9, T56.9, T57.9, T58.0, T58.1, T58.9, T59.9, T60.9, T61.0, T61.1, T61.9, T62.9, T63.9, T64, T65.9] (with 5th character = 1), T71, T72, T74, T76, T75.0-T75.4, V00-W99, X00-X58, X71-X83, X92-X99, Y00-Y09, Y21-Y33, Y35-X98	T14.91, [T36-T65, T71] (with 6th character = 2), [T36.9, T37.9, T39.9, T41.4, T42.7, T43.9, T45.9, T47.9, T49.9, T51.9, T52.9, T53.9, T54.9, T56.9, T57.9, T58.0, T58.1, T58.9, T59.9, T60.9, T61.0, T61.1, T61.9, T62.9, T63.9, T64, T65.9] (with 5th character = 2), X71-X83	[T36-T65, T71] (with 6th character = 3), [T36.9, T37.9, T39.9, T41.4, T42.7, T43.9, T45.9, T47.9, T49.9, T51.9, T52.9, T53.9, T54.9, T56.9, T57.9, T58.0, T58.1, T58.9, T59.9, T60.9, T61.0, T61.1, T61.9, T62.9, T63.9, T64, T65.9] (with 5th character = 3), T74, T76, X92-X99, Y00-Y09, Y38	[T36-T65, T71] (with 6th character = 4), [T36.9, T37.9, T39.9, T41.4, T42.7, T43.9, T45.9, T47.9, T49.9, T51.9, T52.9, T53.9, T54.9, T56.9, T57.9, T58.0, T58.1, T58.9, T59.9, T60.9, T61.0, T61.1, T61.9, T62.9, T63.9, T64, T65.9] (with 5th character = 4), T75.1, Y21-Y33	Y35-Y37

† Differs from placement of comparable code in ICD-10 external cause matrix for mortality. ... Category not applicable (no relevant ICD-10-CM external cause-of-injury codes).

NOTES: ICD-10-CM is the *International Classification of Diseases, 10th Revision, Clinical Modification*. Within a cell of the matrix, when only a subset of ICD-10-CM codes are included, the additional digits in parentheses () apply to the preceding code or range of codes in brackets []. This table is for demonstration purposes only. Because of the annual updates to the ICD-10-CM code set, any analysis using the 2019 final external cause matrix should rely on the spreadsheets available at the NCHS Injury Data and Resources website at: https://www.cdc.gov/nchs/injury_tools.htm to ensure that all external cause-of-injury codes are included and that individual codes are appropriately grouped by mechanism and intent of injury.

SOURCES: National Center for Health Statistics and National Center for Injury Prevention and Control.

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