

Categorization of External Cause of Mortality Codes* used to Present Injury Mortality by the New York State Department of Health

The Bureau of Occupational Health and Injury Prevention (BOHIP), uses the Vital Statistics (VS) death files for surveillance of injury mortality. The New York State Department of Health (NYS DOH) maintains the VS death files through vital records.

External cause of mortality codes are recorded in the VS death files. These codes capture the cause and intent of the injury. Injury deaths are often broken into four different categories of intent: Unintentional injury, suicide, homicide, and undetermined. The external cause of mortality codes that BOHIP uses to define intent are found in table 1.

In categorizing injury death data, BOHIP follows the guidelines published by the centers for disease control and prevention (CDC).

Table 1. Intent of Injury. This table contains the External Cause of Mortality Code* groupings used by the New York State Department of Health to present injury mortality.

Intent	External Cause of Mortality Codes Included in the VS Death Files
All Injuries	V01-Y34, Y85-Y87.2, Y89.9
Unintentional	V01-X59, Y85-Y86
Suicide	X60-X84, Y87.0, U03
Homicide	X85-Y09, Y87.1, U01-U02
Undetermined	Y10-Y34, Y87.2, Y89.9

Preventing unintentional injury is a major focus for the Bureau of Occupational Health and Injury Prevention. As such, the unintentional injury data is often further subdivided into additional categories by the mechanism of injury. A listing of these mechanisms and the corresponding E-Codes is found in table 2.

Table 2. Mechanism of Unintentional Injury. This table contains the E-code* groupings used by the New York State Department of Health to present unintentional injury mortality.

Mechanism of Injury	External Cause of Mortality Codes Included in the VS Death Files
Cut / Pierce	W25-W29, W45
Drowning / Submersion	W65-W74
Fall	W00-W19
Fire / Burn	X00-X19
Fire / Flame	X00-X09
Hot Object / Scald	X10-X19
Firearm	W32-W34
Machinery	W24, W30-W31
Motor Vehicle Traffic	V02-V04 (.1-.9), V09.2, V12-V14(.3-.9), V19.4-V19.6, V20-V28 (.3-.9), V29.4-V29.9, V30-V79 (.4-.9), V80.3-V80.5, V81.1, V82.1, V83-V86 (.0-.3), V87.0-V87.8, V89.2
Occupant	V30-V79 (.4-.9), V83-V86 (.0-.3)
Motorcyclist	V20-V28 (.3-.9), V29 (.4-.9)
Pedal Cyclist	V12-V14 (.3-.9), V19 (.4-.6)
Pedestrian	V02-V04 (.1, .9), V09.2
Unspecified	V87.0-V87.8, V89.2
Other Specified	V80 (.3-.5), V81-V82 (.1)
Pedal Cyclist, Non-Traffic	V10, V11, V12-V14 (.0-.2), V15-V18, V19 (.0-.3), V19.8, V19.9
Pedestrian, Non-Traffic	V01, V02-V04 (.0), V05, V06, V09 (.0, .1, .3, .9)
Transport, Non-Traffic	V20-V28 (.0-.2), V29 (.0-.3), V30-V79 (.0-.3), V80 (.0-.2, .6-.9), V81-V82 (.0, .2-.9) V83-V86 (.4-.9), V87.9, V88.0-V88.9, V89 (.0, .1, .3, .9), V90-V99
Natural / Environmental	W42-W43, W53-W64, W92-W99, X20-X39, X51-X57
Overexertion	X50
Poisoning	X40-X49
Struck by, Against	W20-W22, W50-W52
Suffocation	W75-W84
Other Specified and Classifiable	W23, W35-W41, W44, W49, W85-W91, Y85
Other Specified, Not Elsewhere Classifiable	X58, Y86
Unspecified	X59

Table 3. Mechanism of Suicide. This table contains the external cause of mortality code* groupings used by the New York State Department of Health to present suicide mortality.

Mechanism of Injury	External Cause of Mortality Codes Included in the VS Death Files
Cut / Pierce	X78
Drowning / Submersion	X71
Fall	X80
Fire / Burn	X76-X77
Fire / Flame	X76
Hot Object / Scald	X77
Firearm	X72-X74
Transport	X82
Poisoning	X60-X69
Struck by, Against	X79
Suffocation	X70
Other Specified and Classifiable	X75, X81
Other Specified, Not Elsewhere Classifiable	X83, Y87.0
Unspecified	X84, *U03

Table 4. Mechanism of Homicide. This table contains the external cause of mortality code* groupings used by the New York State Department of Health to present homicide mortality.

Mechanism of Injury	External Cause of Mortality Codes Included in the VS Death Files
Cut / Pierce	X99
Drowning / Submersion	X92
Fall	Y01
Fire / Burn	X97, X98, *U01.3
Fire / Flame	X97
Hot Object / Scald	X98
Firearm	X93-X95, *U01.4
Transport	Y03, *U01.1
Poisoning	X85-X90, *U01.6, *U01.7
Struck by, Against	Y00, Y04
Suffocation	X91
Other Specified and Classifiable	X96, Y02, Y05-Y07, *U01.0, *U01.2, *U01.5
Other Specified, Not Elsewhere Classifiable	Y08, Y87.1, *U01.8, *U02
Unspecified	Y09, *U01.9

Table 5. Mechanism of Injury of Undetermined Intent. This table contains the external cause of mortality code* groupings used by the New York State Department of Health to present injury mortality of undetermined intent.

Mechanism of Injury	External Cause of Mortality Codes Included in the VS Death Files
Cut / Pierce	Y28
Drowning / Submersion	Y21
Fall	Y30
Fire / Burn	Y26-Y27
Fire / Flame	Y26
Hot Object / Scald	Y27
Firearm	Y22-Y24
Transport, Non-Traffic	Y32
Poisoning	Y10-Y19
Struck by, Against	Y29
Suffocation	Y20
Other Specified and Classifiable	Y25, Y31
Other Specified, Not Elsewhere Classifiable	Y33, Y87.2
Unspecified	Y34, Y89.9

*External Cause of Mortality Codes are from on the **INTERNATIONAL STATISTICAL CLASSIFICATION OF DISEASES AND RELATED HEALTH PROBLEMS, 10TH REVISION (ICD-10)**. This table includes the ICD-10 codes for terrorism. The codes are preceded with an “*”.