

Appendix C1: Poisoning Matrix for ICD-9-CM Coded Morbidity Data

Poisonings Classified by External Cause Categories†					
Type of Poison††††	Poisoning by Intent				
	Unintentional	Self Harm	Assault	Legal Intervention/ Operation of War	Undetermined
DRUG	E850-E858	E950 (.0-.5)	E962.0	...	E980 (.0-.5)
Nonopioid analgesics, Antipyretics, and Antirheumatics	E850 (.3-.8)	...	...	...	...
4-Aminophenol derivatives	E850.4	...	...	...	...
Opiates/opioids	E850 (.0-.2)	...	...	...	...
Heroin	E850.0	...	...	...	...
Pharmaceutical opioids**	E850 (.1-.2)	...	...	...	...
Methadone	E850.1	...	...	...	...
Cocaine	E854.3*, E855.2*	...	...	...	...
Other and unspecified narcotics	...	...	...	...	...
Antidepressants, barbiturates and other antiepileptics, sedative-hypnotics, and psychotropic drugs not elsewhere classified	E851-E853, E854 (.0-.2,.8), E855.0	E950 (.1-.3)	...	...	E980 (.1-.3)
Benzodiazepines	E853.2	...	...	...	...
Psychostimulants with abuse potential including methamphetamine, MDMA (Ecstasy)	E854.2	...	...	...	...
Anticoagulants	...	...	...	...	...
Other specified and unspecified drugs	E850 (.9), E855 (.1,.3-.9), E856-E858	E950 (.0, .4, .5)	E962.0	...	E980 (.0, .4, .5)
NON-DRUG	E860-E869	E950 (.6-.8), E951-E952	E962 (.1,.2)	E972, E997.2	E980 (.6-.8), E981, E982 (.0,.1)
Alcohol	E860	...	...	...	...
Ethanol	E860 (.0-.1)	...	...	...	...
Carbon monoxide	E868 (.2-.9)	E952 (.0,.1)	...	...	E982 (.0,.1)
Petroleum products and other solvents and their vapors	E862	...	...	...	E981
Other specified and unspecified non-drugs	E861, E863-E867, E868 (.0-.1), E869	E950 (.6-.8), E951, E952 (.8, .9)	E962 (.1-.2)	E972, E997.2	E980 (.6-.8)
UNSPECIFIED TYPE OF POISON	...	E950.9	E962.9, E979.7	...	E980.9, E982 (.8,.9)
ALL TYPES OF POISON	E850-E869	E950-E952	E962, E979.7	E972, E997.2	E980-E982

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Type of Poison††††	Poisonings Classified by External Cause Categories†		Drug and Alcohol Induced Diseases††
	Envenomation	Adverse Drug Effect	Drug and Alcohol Induced Diseases
DRUG		E930-E949	244 (.2,.3), 275.02, 288.03, 289.84, 292, 304 (.00-.02,.10-.12), [304-305] (.20-.22,.30-.32,.40-.42,.50-.52,.60-.62,.70-.72,.80-.82,.90-.92), 332.1, 333.85, 336.8, 357.6, 359.24, 648.3, 655.5, 692.3, 693.0, 760 (.72-.78), 779 (.4,.5)
Nonopioid analgesics, Antipyretics, and Antirheumatics		E935 (.3-.8)	...
4-Aminophenol derivatives		E935.4	...
Opiates/opioids		E935 (.0-.2)	304 (.00-.02, .70*, .71*, .72*), 305 (.50-.52)
Heroin		E935.0	...
Pharmaceutical opioids**		E935 (.1-.2)	...
Methadone		E935.1	...
Cocaine		E938.5*	304 (.20-.22), 305 (.60-.62), 760.75
Other and unspecified narcotics		...	760.72
Antidepressants, barbiturates and other antiepileptics, sedative-hypnotics, and psychotropic drugs not elsewhere classified		E936-E937, E939-E940	304 (.10-.12, .40-.42), 305 (.40-.42, .70-.72)
Benzodiazepines		E939.4	...
Psychostimulants with abuse potential including methamphetamine, MDMA (Ecstasy)		E939.7	304 (.40-.42), 305 (.70-.72)
Anticoagulants		E934.2	...
Other specified and unspecified drugs		E930-E933, E934 (.1, .3-.9), E935.9, E938 (.0-.4,.6-.9), E941-E949	304 (.30-.32, .50-.52,.60-.62, .80-.82, .90-.92), 305 (.20-.22, .30-.32, .80-.82, .90-.92), 760 (.73,.74,.76-.78)
NON-DRUG	E905		291 (.0-.5,.8,.9), 303 (.00-.02,.90-.92), 305 (.00-.02, .1), 357.5, 425.5, 535.3, 571 (.0-.3), 760.71
Alcohol			291 (.0-.5,.8,.9), 303 (.00-.02,.90-.92), 305 (.00-.02), 357.5, 425.5, 535.3, 571 (.0-.3), 760.71
Ethanol			...
Carbon monoxide			...
Petroleum products and other solvents and their vapors			...
Other specified and unspecified non-drugs	E905		305.1
UNSPECIFIED TYPE OF POISON			760 (.70,.79)
ALL TYPES OF POISON	E905	E930-E949	244 (.2,.3), 275.02, 288.03, 289.84, 291 (.0-.5,.8,.9), 292, 303 (.00-.02,.90-.92), 304 (.00-.02,.10-.12), 305 (.00-.02,.1), [304-305] (.20-.22,.30-.32,.40-.42,.50-.52,.60-.62,.70-.72,.80-.82,.90-.92), 332.1, 333.85, 336.8, 357 (.5,.6), 359.24, 425.5, 535.3, 571 (.0-.3), 648.3, 655.5, 692.3, 693.0, 760 (.7), 779 (.4,.5)

Appendix C1: Poisoning Matrix for ICD-9-CM Coded Morbidity Data

Poisonings Classified by Nature (or Diagnostic Category) of the Poisoning†††			
Type of Poison††††	Non-venom, Non-foodborne Poisoning	Envenomation	Foodborne Illness: Intoxication
DRUG	909 (.0,.5), 960-979, 995 (.2,.4,.86,.89), 999 (.4-.7)		
Nonopioid analgesics, Antipyretics, and Antirheumatics	965 (.1-.8)		
4-Aminophenol derivatives	965.4		
Opiates/opioids	965.0		
Heroin	965.01		
Pharmaceutical opioids**	965 (.00, .02-.09)		
Methadone	965.02		
Cocaine	968.5*, 970.81		
Other and unspecified narcotics	...		
Antidepressants, barbiturates and other antiepileptics, sedative-hypnotics, and psychotropic drugs not elsewhere classified	966, 967, 969, 970 (.0,.1,.89)		
Benzodiazepines	969.4		
Psychostimulants with abuse potential including methamphetamine, MDMA (Ecstasy)	969.7		
Anticoagulants	964.2		
Other specified and unspecified drugs	909 (.0, .5), 960-963, 964 (.0, .1,.3-.9), 965.9, 968 (.0-.4, .6-.9), 970 (.9), 971-979, 995 (.2, .4, .86, .89), 999 (.4-.7)		
NON-DRUG	980-989	989.5	988, 989.7, 005 (.0-.3, .89)
Alcohol	980		
Ethanol	980.0		
Carbon monoxide	986		
Petroleum products and other solvents and their vapors	981-982		
Other specified and unspecified non-drugs	983-985, 987, 989 (.0-.4, .6), 989.81-989.9	989.5	988, 989.7, 005 (.0-.3, .89)
UNSPECIFIED TYPE OF POISON
ALL TYPES OF POISON	960-989, 999 (.4-.7)	989.5	988, 989.7, 005 (.0-.3,.89)

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Type of Poison††††	All Poisoning
DRUG	244 (.2,3), 275.02, 288.03, 289.84, 292, 304 (.00-.02,.10-.12), [304-305] (.20-.22,.30-.32,.40-.42,.50-.52,.60-.62,.70-.72,.80-.82,.90-.92), 332.1, 333.85, 336.8, 357.6, 359.24, 648.3, 655.5, 692.3, 693.0, 760 (.72-.78), 779 (.4,.5), 909 (.0,.5), 960-979, 995 (.2,.4,.86,.89), 999 (.4-.7), E850-E858, E930-E949, [E950, E980] (.0-.5), E962.0
Nonopioid analgesics, Antipyretics, and Antirheumatics	965 (.1-.8), E850 (.3-.8), E935 (.3-.8)
4-Aminophenol derivatives	965.4, E850.4, E935.4
Opiates/opioids	304 (.00-.02, .70*, .71*, .72*), 305 (.50-.52), 965.0, E850 (.0-.2), E935 (.0-.2),
Heroin	965.01, E850.0, E935.0
Pharmaceutical opioids**	965 (.00,.02-.09), E850 (.1-.2), E935 (.1-.2)
Methadone	965.02, E850.1, E935.1
Cocaine	304 (.20-.22), 305 (.60-.62), 760.75, 968.5*, 970.81, E854.3*, E855.2*, E938.5*
Other and unspecified narcotics	760.72
Antidepressants, barbiturates and other antiepileptics, sedative-hypnotics, and psychotropic drugs not elsewhere classified	304 (.10-.12, .40-.42), 305 (.40-.42, .70-.72), 966, 967, 969, 970 (.0,.1,.89), E851-E853, E854 (.0,.1,.2,.8), E855.0, E936-E937, E939-E940, E950 (.1-.3), E980 (.1-.3)
Benzodiazepines	969.4, E853.2, E939.4
Psychostimulants with abuse potential including methamphetamine, MDMA (Ecstasy)	304 (.40-.42), 305 (.70-.72), 969.7, E854.2, E939.7
Anticoagulants	964.2, E934.2
Other specified and unspecified drugs	304 (.30-.32, .50-.52,.60-.62, .80-.82, .90-.92), 305 (.20, -.22, .30-.32, .80-.82, .90-.92), 760 (.73,.74,.76-.78), 909 (.0, .5), 960-963, 964 (.0, .1,.3-.9), 965.9, 968 (.0-.4, .6-.9), 970 (.9), 971-979, 995 (.2, .4, .86, .89), 999 (.4-.7), E850 (.9), E855 (.1,.3-.9), E856-E858, E950 (.0, .4, .5), E962.0, E980 (.0, .4, .5), E930-E933, E934 (.1,.3-.9), E935.9, E938 (.0-.4,.6-.9), E941-E949
NON-DRUG	005 (.0-.3, .89), 291 (.0-.5,.8,.9), 303 (.00-.02,.90-.92), 305 (.00-.02, .1), 357.5, 425.5, 535.3, 571 (.0-.3), 760.71, 980-989, E860-E869, E905, E950 (.6-.8), E951-E952, E962 (.1-.2), E972, E980 (.6-.8), E981, E982 (.0,.1), E997.2
Alcohol	291 (.0-.5,.8,.9), 303 (.00-.02,.90-.92), 305 (.00-.02), 357.5, 425.5, 535.3, 571 (.0-.3), 760.71, 980, E860
Ethanol	980.0, E860 (.0-.1)
Carbon monoxide	986, E868 (.2-.9), E952 (.0,.1), E982 (.0,.1)
Petroleum products and other solvents and their vapors	981-982, E862, E981
Other specified and unspecified non-drugs	005 (.0-.3, .89), 305.1, 983-985, 987-989, E861, E863-E867, E868 (.0,.1), E869, E905, E950 (.6-.8), E951, E952 (.8-.9), E962 (.1-.2), E972, E980(.6-.8), E997.2
UNSPECIFIED TYPE OF POISON	760 (.70,.79), E950.9, E962.9, E980.9, E979.7, E982 (.8,.9)
ALL TYPES OF POISON	005 (.0-.3,.89), 244 (.2,3), 275.02, 288.03, 289.84, 291 (.0-.5,.8,.9), 292, 303 (.00-.02,.90-.92), 304 (.00-.02,.10-.12), 305 (.00-.02, .1), [304-305] (.20-.22,.30-.32,.40-.42,.50-.52,.60-.62,.70-.72,.80-.82,.90-.92), 332.1, 333.85, 336.8, 357 (.5,.6), 359.24, 425.5, 535.3, 571 (.0-.3), 648.3, 655.5, 692.3, 693.0, 760 (.7), 779 (.4,.5), 960-989, 999 (.4-.7), E850-E869, E905, E930-E952, E962, E972, E980-E982, E979.7, E997.2

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Footnotes

- * Not the only poison in this category
- ** The term pharmaceutical is used to denote the availability of these agents through prescription and does not necessarily reflect the actual the source of these agents for any given poisoning.
- † **Poisonings classified by external cause categories**
This set of columns includes cases which receive an external cause of injury code (E code) indicating a poisoning event.
Some hospitalizations and ED discharges may receive an external cause of injury code for poisoning but may not receive a diagnostic code for poisoning.
These codes may be in "dedicated" ICD-9-CM E code fields and/or they may be found in diagnostic code fields in a given database.
There is no separate column for poisonings related to foodborne illness as ICD-9-CM classifies these events under unintentional poisonings (E865).
- †† **Drug and alcohol induced diseases**
This column includes cases which receive an ICD-9-CM diagnostic code for a disease condition which was induced by a poison.
These codes are found only in ICD-9-CM diagnostic fields
- ††† **Poisonings classified by the nature (or diagnostic category) of the poisoning**
These columns include cases which receive an ICD-9-CM diagnostic code for poisoning.
These codes can occur in any diagnostic field in a database but are not found in any "dedicated" E code fields.
- †††† **Type of Poison**
Only selected classes of drugs and nondrugs are shown in the table. Classes were chosen based on a combination of their public health importance and the availability of a specific ICD code range. For example, 4-aminophenol derivatives such as acetaminophen are not the only class of nonopioid analgesics in use, but the other classes are involved in fatal poisonings less frequently. Similarly, many classes of gases and vapors are involved in poisoning deaths, but none as frequently as carbon monoxide.

ICD codes associated with radiation exposure and disease are not included as they lack information as to whether the source of the radiation is incorporated into the body.

Notes

- 1 Nature and external cause of injury codes presented as three digit codes (e.g., E862) or code ranges (e.g., 981-981) are inclusive of any valid 4th and 5th digit codes. Where 4th and 5th digits exist for diagnostic codes, they must be used. Otherwise the code is considered invalid. For three digit codes which have a subclassification scheme, the 3 digit code is invalid without the additional digit(s).
- 2 Dark grey hatched shading indicates that ICD codes in these cells are not possible.