

Using ICD Codes Alone May Misclassify Overdoses Among Perinatal People

American Journal of Preventive Medicine

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APPENDIX TABLE

Type of Drug Overdose Categorized Using ICD-9/10-CM Codes*

Stimulants	ICD-9-CM Diagnosis 969.7X: Poisoning by psychostimulants 970.0: Poisoning by analeptics 970.8X: Poisoning by cocaine E854.2: Accidental poisoning by psychostimulants E854.3: Accidental poisoning by central nervous system stimulants E855.2: Accidental poisoning by local anesthetics ICD-10-CM Diagnosis** T40.5X: Poisoning by, adverse effect of and underdosing of cocaine T43.6X: Poisoning by, adverse effect of and underdosing of psychostimulants
Opioids	ICD-9-CM Diagnosis 965.0X: Poisoning by opiates and related narcotics E850.0: Accidental poisoning by heroin E850.1: Accidental poisoning by methadone E850.2: Accidental poisoning by other opiates and related narcotics ICD-10-CM Diagnosis** T40.0X: Poisoning by, adverse effect of and underdosing of opium T40.1X: Poisoning by and adverse effect of heroin T40.2X: Poisoning by, adverse effect of and underdosing of other opioid T40.3X: Poisoning by, adverse effect of and underdosing of methadone

	T40.4X: Poisoning by, adverse effect of and underdosing of other synthetic narcotics T40.6X: Poisoning by, adverse effect of and underdosing of other and unspecified narcotics
Sedatives	ICD-9-CM Diagnosis 966.X: Poisoning by anticonvulsants and anti-parkinsonism drugs 967.X: Poisoning by sedatives and hypnotics 969.1: Poisoning by phenothiazine-based tranquilizers 969.2: Poisoning by butyrophenone-based tranquilizers 969.3: Poisoning by other antipsychotics, neuroleptics, and major tranquilizers 969.4: Poisoning by benzodiazepine-based tranquilizers 969.5: Poisoning by other tranquilizers E851: Accidental poisoning by barbiturates E852X: Accidental poisoning by other sedatives and hypnotics E853X: Accidental poisoning by tranquilizers E855.0: Accidental poisoning by anticonvulsant and anti-parkinsonism drugs E950.1: Suicide and self-inflicted poisoning by barbiturates E950.2: Suicide and self-inflicted poisoning by other sedatives and hypnotics E950.3: Suicide and self-inflicted poisoning by tranquilizers and other psychotropic agents E980.1: Poisoning by barbiturates, undetermined whether accidentally or purposely inflicted E980.2: Poisoning by other sedatives and hypnotics, undetermined whether accidentally or purposely inflicted E980.3: Poisoning by tranquilizers and other psychotropic agents, undetermined whether accidentally or purposely inflicted ICD-10-CM Diagnosis** T42.X: Poisoning by, adverse effect of and underdosing of antiepileptic, sedative-hypnotic and antiparkinsonism drugs
Other Substance†	ICD-9-CM Diagnosis 960.X: Poisoning by antibiotics 961.X: Poisoning by other anti-infectives 962.X: Poisoning by hormones and synthetic substitutes 963.X: Poisoning by primarily systemic agents 964.X: Poisoning by agents primarily affecting blood constituents 965.1: Poisoning by salicylates 965.4: Poisoning by aromatic analgesics, not elsewhere classified 965.5: Poisoning by pyrazole derivatives 965.6X: Poisoning by antirheumatics (antiphlogistics) 965.7 Poisoning by other non-narcotic analgesics 965.8 Poisoning by other specified analgesics and antipyretics 965.9 Poisoning by unspecified analgesic and antipyretic 968.X: Poisoning by other central nervous system depressants and anesthetics 969.0X: Poisoning by antidepressants 969.6: Poisoning by psychodysleptics (hallucinogens) 969.8: Poisoning by other specified psychotropic agents

969.9: Poisoning by unspecified psychotropic agent
 970.1: Poisoning by opiate antagonists
 970.9: Poisoning by unspecified central nervous system stimulant
 971.X: Poisoning by drugs primarily affecting the autonomic nervous system
 972.X: Poisoning by agents primarily affecting the cardiovascular system
 973.X: Poisoning by agents primarily affecting the gastrointestinal system
 974.X: Poisoning by water mineral and uric acid metabolism drugs
 975.X: Poisoning by agents primarily acting on the smooth and skeletal muscles and respiratory system
 976.X: Poisoning by agents primarily affecting skin and mucous membrane ophthalmological otorhinolaryngological and dental drugs
 977.X: Poisoning by other and unspecified drugs and medicinal substances
 978.X: Poisoning by bacterial vaccines
 979.X: Poisoning by other vaccines and biological substances
 E850.3: Accidental poisoning by salicylates
 E850.4: Accidental poisoning by aromatic analgesics, not elsewhere classified
 E850.5: Accidental poisoning by pyrazole derivatives
 E850.6: Accidental poisoning by antirheumatics (antiphlogistics)
 E850.7: Accidental poisoning by other non-narcotic analgesics
 E850.8: Accidental poisoning by other specified analgesics and antipyretics
 E850.9: Accidental poisoning by unspecified analgesic or antipyretic
 E854.0: Accidental poisoning by antidepressants
 E854.1: Accidental poisoning by psychodysleptics [hallucinogens]
 E854.8: Accidental poisoning by other psychotropic agents
 E855.1: Accidental poisoning by other central nervous system depressants
 E855.3: Accidental poisoning by parasympathomimetics [cholinergics]
 E855.4: Accidental poisoning by parasympatholytics [anticholinergics and antimuscarinics] and spasmolytics
 E855.5: Accidental poisoning by sympathomimetics [adrenergics]
 E855.6: Accidental poisoning by sympatholytics [antiadrenergics]
 E855.8: Accidental poisoning by other specified drugs acting on central and autonomic nervous systems
 E855.9: Accidental poisoning by unspecified drug acting on central and autonomic nervous systems
 E856: Accidental poisoning by antibiotics
 E857: Accidental poisoning by other anti-infectives
 E858.X: Accidental poisoning by other drugs
 E950.0: Suicide and self-inflicted poisoning by analgesics, antipyretics, and antirheumatics
 E950.4: Suicide and self-inflicted poisoning by other specified drugs and medicinal substances
 E950.5: Suicide and self-inflicted poisoning by unspecified drug or medicinal substance
 E980.0: Poisoning by analgesics, antipyretics, and antirheumatics, undetermined whether accidentally or purposely inflicted
 E980.4: Poisoning by other specified drugs and medicinal substances, undetermined whether accidentally or purposely inflicted

E980.5: Poisoning by unspecified drug or medicinal substance, undetermined whether accidentally or purposely inflicted

ICD-10-CM Diagnosis**

T36.X: Poisoning by, adverse effect of and underdosing of systemic antibiotics

T37.X: Poisoning by, adverse effect of and underdosing of other systemic anti-infectives and antiparasitics

T38.X: Poisoning by, adverse effect of and underdosing of hormones and their synthetic substitutes and antagonists, not elsewhere classified

T39.X: Poisoning by, adverse effect of and underdosing of nonopioid analgesics, antipyretics and antirheumatics

T40.8X: Poisoning by and adverse effect of lysergide [LSD]

T40.9X: Poisoning by, adverse effect of and underdosing of unspecified psychodysleptics [hallucinogens]

T41X: Poisoning by, adverse effect of and underdosing of anesthetics and therapeutic gases

T43.0X: Poisoning by, adverse effect of and underdosing of tricyclic and tetracyclic antidepressants

T43.1X: Poisoning by, adverse effect of and underdosing of monoamine-oxidase-inhibitor antidepressants

T43.2X: Poisoning by, adverse effect of and underdosing of other and unspecified antidepressants

T43.3X: Poisoning by, adverse effect of and underdosing of phenothiazine antipsychotics and neuroleptics

T43.4X: Poisoning by, adverse effect of and underdosing of butyrophenone and thiothixene neuroleptics

T43.5X: Poisoning by, adverse effect of and underdosing of other and unspecified antipsychotics and neuroleptics

T43.8X: Poisoning by, adverse effect of and underdosing of other psychotropic drugs

T43.9X: Poisoning by, adverse effect of and underdosing of unspecified psychotropic drug

T50.X: Poisoning by, adverse effect of and underdosing of diuretics and other and unspecified drugs, medicaments and biological substances

*The case definition was based partly on CDC's Drug Overdose Surveillance and Epidemiology (DOSE) system (<https://www.cdc.gov/drugoverdose/nonfatal/dose/about.html>) and previous CDC publications (<https://www.cdc.gov/drugoverdose/pdf/pubs/2019-cdc-drug-surveillance-report.pdf>)

**ICD-10-CM child codes indicating adverse effects and underdosing were excluded

†The ICD codes T50.9X, E858.8, E858.9, E980.4, E980.5, E950.4, and E950.5 indicate other specified and unspecified drugs and therefore could not be categorized into any particular type of substance.