International Classification of Diseases, Tenth Revision (ICD-10) codes utilized in the Injury Surveillance Workgroup 7’s definitions for drug overdose deaths

Sources:


Definitions (based on ISW7 Consensus recommendations):

ISW7 consensus definition of a poisoning (ISW7, pg. 9):
A poisoning is an exposure to any extrinsic substance by ingestion, inhalation, injection, or absorption through the skin or mucus membranes that results in at least one related adverse clinical effect.

ISW7 consensus definition of a drug (ISW7, pg. 10):
A drug is any chemical compound that is chiefly used by or administered to humans or animals as an aid in the diagnosis, treatment, or prevention of disease or injury, for the relief of pain or suffering, to control or improve any physiologic or pathologic condition, or for the feeling it causes.

ISW7 definition on acute poisoning deaths due to the effects of drugs (ISW7, pg. 22):
Deaths with an underlying cause of death code of [F11-F16](.0), F19.0, X40-X44, X60-X64, X85, Y10-Y14.

Notes:
1) The F-codes [F11-F16](.0) and F19.0 listed in the ISW7 definition are phased out and can be dropped from the acute poisoning definition due to drugs definition because they are not used in the US anymore (after 2008).
2) The more common name for “acute poisonings due to the effects of drugs” is “drug overdose”.

ISW7 definition of drug overdose associated with the effect of opioid analgesics (ISW7, pg. 23):
1) Deaths with an underlying cause of death code of [F11-F16](.0), F19.0, X40-X44, X60-X64, X85, Y10-Y14;
AND
2) One or more of the following codes in any multiple cause of death fields: T40.2, T40.3, T40.4
ISW7 definitions for drug overdose by intent (ISW7, Appendix B1: Poisoning matrix for ICD-10 coded mortality data, pg.93):

**Unintentional Drug Overdose Deaths:** deaths with an underlying cause of death in the range X40-X44.

**Self harm/Suicide Drug Overdose Death:** deaths with an underlying cause of death in the range X60-X64.

**Assault/Homicide Drug Overdose Death:** deaths with an underlying cause of death X85.

**Undetermined Intent Drug Overdose Death:** deaths with an underlying cause of death in the range Y10-Y14.

**ICD-10 codes:**

Poisoning by drugs, medicaments and biological substances (T36-T50)

Incl.:
- overdose of these substances
- wrong substance given or taken in error

Excl.:
- abuse of non-dependence-producing substances (F55)
- adverse effects ["hypersensitivity", "reaction", etc.] of correct substance properly administered; such cases are to be classified according to the nature of the adverse effect, such as:
  - aspirin gastritis (K29.-)
  - blood disorders (D50-D76)
  - dermatitis:
    - contact (L23-L25)
    - due to substances taken internally (L27.-)
  - nephropathy (N14.0-N14.2)
  - unspecified adverse effect of drug (T88.7)
- intoxication meaning inebriation (F10-F19)
- drug reaction and poisoning affecting the fetus and newborn (P00-P96)
- pathological drug intoxication (F10-F19)

**T36 Poisoning by systemic antibiotics**

Excl.:
- antibiotics:
  - antineoplastic (T45.1)
  - locally applied NEC (T49.0)
  - topically used for:
    - ear, nose and throat (T49.6)
    - eye (T49.5)
T36.0 Penicillins  
T36.1 Cefalosporins and other beta-lactam antibiotics  
T36.2 Chloramphenicol group  
T36.3 Macrolides  
T36.4 Tetracyclines  
T36.5 Aminoglycosides  
  Streptomycin  
T36.6 Rifamycins  
T36.7 Antifungal antibiotics, systemically used  
T36.8 Other systemic antibiotics  
T36.9 Systemic antibiotic, unspecified

**T37 Poisoning by other systemic anti-infectives and antiparasitics**  
Excl.:  
  anti-infectives:  
  - locally applied NEC (T49.0)  
  - topically used (for):  
    - ear, nose and throat (T49.6)  
    - eye (T49.5)  
T37.0 Sulfonamides  
T37.1 Antimycobacterial drugs  
Excl.:  
  rifamycins (T36.6)  
  streptomycin (T36.5)  
T37.2 Antimalarials and drugs acting on other blood protozoa  
Excl.:  
  hydroxyquinoline derivatives (T37.8)  
T37.3 Other antiprotozoal drugs  
T37.4 Anthelminthics  
T37.5 Antiviral drugs  
Excl.:  
  amantadine (T42.8)  
  cytarabine (T45.1)  
T37.8 Other specified systemic anti-infectives and antiparasitics  
  Hydroxyquinoline derivatives  
Excl.:  
  antimalarial drugs (T37.2)  
T37.9 Systemic anti-infective and antiparasitic, unspecified

**T38 Poisoning by hormones and their synthetic substitutes and antagonists, not elsewhere classified**  
Excl.:  
  mineralocorticoids and their antagonists (T50.0)  
  oxytocic hormones (T48.0)  
  parathyroid hormones and derivatives (T50.9)  
T38.0 Glucocorticoids and synthetic analogues  
Excl.:  
  glucocorticoids, topically used (T49.-)
T38.1 Thyroid hormones and substitutes
T38.2 Antithyroid drugs
T38.3 Insulin and oral hypoglycaemic [antidiabetic] drugs
T38.4 Oral contraceptives
  Multiple- and single-ingredient preparations
T38.5 Other estrogens and progestogens
  Mixtures and substitutes
T38.6 Antigonadotrophins, antiestrogens, antiandrogens, not elsewhere classified
  Tamoxifen
T38.7 Androgens and anabolic congeners
T38.8 Other and unspecified hormones and their synthetic substitutes
  Anterior pituitary [adenohypophyseal] hormones
T38.9 Other and unspecified hormone antagonists

T39 Poisoning by nonopioid analgesics, antipyretics and antirheumatics
  T39.0 Salicylates
  T39.1 4-Aminophenol derivatives
  T39.2 Pyrazolone derivatives
  T39.3 Other nonsteroidal anti-inflammatory drugs [NSAID]
  T39.4 Antirheumatics, not elsewhere classified
  Excl.:
  glucocorticoids (T38.0)
  salicylates (T39.0)
  T39.8 Other nonopioid analgesics and antipyretics, not elsewhere classified
  T39.9 Nonopioid analgesic, antipyretic and antirheumatic, unspecified

T40 Poisoning by narcotics and psychodysleptics [hallucinogens]
  Excl.: intoxication meaning inebriation (F10-F19)
  T40.0 Opium
  T40.1 Heroin
  T40.2 Other opioids
    Codeine
    Morphine
  T40.3 Methadone
  T40.4 Other synthetic narcotics
    Pethidine
  T40.5 Cocaine
  T40.6 Other and unspecified narcotics
  T40.7 Cannabis (derivatives)
  T40.8 Lysergide [LSD]
  T40.9 Other and unspecified psychodysleptics [hallucinogens]
    Mescaline
    Psilocin
    Psilocybine

T41 Poisoning by anaesthetics and therapeutic gases
  Excl.: benzodiazepines (T42.4)
cocaine (T40.5)
opioids (T40.0-T40.2)

T41.0 Inhaled anaesthetics
Excl.:
oxygen (T41.5)

T41.1 Intravenous anaesthetics
  Thiobarbiturates
T41.2 Other and unspecified general anaesthetics
T41.3 Local anaesthetics
T41.4 Anaesthetic, unspecified
T41.5 Therapeutic gases
  Carbon dioxide
  Oxygen

T42 Poisoning by antiepileptic, sedative-hypnotic and antiparkinsonism drugs
Excl.:
intoxication meaning inebriation (F10-F19)
T42.0 Hydantoin derivatives
T42.1 Iminostilbenes
  Carbamazepine
T42.2 Succinimides and oxazolidinediones
T42.3 Barbiturates
Excl.:
thiobarbiturates (T41.1)
T42.4 Benzodiazepines
T42.5 Mixed antiepileptics, not elsewhere classified
T42.6 Other antiepileptic and sedative-hypnotic drugs
  Methaqualone
  Valproic acid
Excl.:
carbamazepine (T42.1)
T42.7 Antiepileptic and sedative-hypnotic drugs, unspecified
  • Sleeping:
    o draught
    o drug
    o tablet
  • NOS

T42.8 Antiparkinsonism drugs and other central muscle-tone depressants
  Amantadine

T43 Poisoning by psychotropic drugs, not elsewhere classified
Excl.:
appetite depressants (T50.5)
barbiturates (T42.3)
benzodiazepines (T42.4)
intoxication meaning inebriation (F10-F19)
methaqualone (T42.6)
psychodysleptics [hallucinogens] (T40.7-T40.9)
T43.0 Tricyclic and tetracyclic antidepressants
T43.1 Monoamine-oxidase-inhibitor antidepressants
T43.2 Other and unspecified antidepressants
T43.3 Phenothiazine antipsychotics and neuroleptics
T43.4 Butyrophenone and thioxanthene neuroleptics
T43.5 Other and unspecified antipsychotics and neuroleptics
Excl.:
  rauwolfia (T46.5)
T43.6 Psychostimulants with abuse potential
Excl.:
  cocaine (T40.5)
T43.8 Other psychotropic drugs, not elsewhere classified
T43.9 Psychotropic drug, unspecified

T44 Poisoning by drugs primarily affecting the autonomic nervous system
T44.0 Anticholinesterase agents
T44.1 Other parasympathomimetics [cholinergics]
T44.2 Ganglionic blocking drugs, not elsewhere classified
T44.3 Other parasympatholytics [anticholinergics and antimuscarinics] and spasmolytics, not elsewhere classified
  Papaverine
T44.4 Predominantly alpha-adrenoreceptor agonists, not elsewhere classified
  Metaraminol
T44.5 Predominantly beta-adrenoreceptor agonists, not elsewhere classified
Excl.:
  beta-adrenoreceptor agonists used in asthma therapy (T48.6)
T44.6 Alpha-adrenoreceptor antagonists, not elsewhere classified
Excl.:
  ergot alkaloids (T48.0)
T44.7 Beta-adrenoreceptor antagonists, not elsewhere classified
T44.8 Centrally acting and adrenergic-neuron-blocking agents, not elsewhere classified
Excl.:
  clonidine (T46.5)
  guanethidine (T46.5)
T44.9 Other and unspecified drugs primarily affecting the autonomic nervous system
  Drug stimulating both alpha- and beta-adrenoreceptors

T45 Poisoning by primarily systemic and haematological agents, not elsewhere classified
T45.0 Antiallergic and antiemetic drugs
Excl.:
  phenothiazine-based neuroleptics (T43.3)
T45.1 Antineoplastic and immunosuppressive drugs
  Antineoplastic antibiotics
  Cytarabine
Excl.:
  tamoxifen (T38.6)
T45.2 Vitamins, not elsewhere classified
Excl.:
nicotinic acid (derivatives) (T46.7)
vitamin K (T45.7)
T45.3 Enzymes, not elsewhere classified
T45.4 Iron and its compounds
T45.5 Anticoagulants
T45.6 Fibrinolytic-affecting drugs
T45.7 Anticoagulant antagonists, vitamin K and other coagulants
T45.8 Other primarily systemic and haematological agents
   Liver preparations and other antianæmic agents
   Natural blood and blood products
   Plasma substitute
Excl.:
   immunoglobulin (T50.9)
   iron (T45.4)
T45.9 Primarily systemic and haematological agent, unspecified

T46 Poisoning by agents primarily affecting the cardiovascular system
Excl.:
metaraminol (T44.4)
T46.0 Cardiac-stimulant glycosides and drugs of similar action
T46.1 Calcium-channel blockers
T46.2 Other antidysrhythmic drugs, not elsewhere classified
Excl.:
   beta-adrenoreceptor antagonists (T44.7)
T46.3 Coronary vasodilators, not elsewhere classified
   Dipyridamole
Excl.:
   beta-adrenoreceptor antagonists (T44.7)
   calcium-channel blockers (T46.1)
T46.4 Angiotensin-converting-enzyme inhibitors
T46.5 Other antihypertensive drugs, not elsewhere classified
   Clonidine
   Guanethidine
   Rauwolfia
Excl.:
   beta-adrenoreceptor antagonists (T44.7)
   calcium-channel blockers (T46.1)
   diuretics (T50.0-T50.2)
T46.6 Antihyperlipidaemic and antiarteriosclerotic drugs
T46.7 Peripheral vasodilators
   Nicotinic acid (derivatives)
Excl.:
papaverine (T44.3)
T46.8 Antivaricose drugs, including sclerosing agents
T46.9 Other and unspecified agents primarily affecting the cardiovascular system

T47 Poisoning by agents primarily affecting the gastrointestinal system
T47.0 Histamine H₂-receptor antagonists
T47.1 Other antacids and anti-gastric-secretion drugs
T47.2 Stimulant laxatives
T47.3 Saline and osmotic laxatives
T47.4 Other laxatives
  Intestinal atonia drugs
T47.5 Digestants
T47.6 Antidiarrhoeal drugs
Excl.:
  systemic antibiotics and other anti-infectives (T36-T37)
T47.7 Emetics
T47.8 Other agents primarily affecting the gastrointestinal system
T47.9 Agent primarily affecting the gastrointestinal system, unspecified

T48 Poisoning by agents primarily acting on smooth and skeletal muscles and the respiratory system
T48.0 Oxytocic drugs
Excl.:
  estrogens, progestogens and antagonists (T38.4-T38.6)
T48.1 Skeletal muscle relaxants [neuromuscular blocking agents]
T48.2 Other and unspecified agents primarily acting on muscles
T48.3 Antitussives
T48.4 Expectorants
T48.5 Anti-common-cold drugs
T48.6 Antiasthmatics, not elsewhere classified
  Beta-adrenoreceptor agonists used in asthma therapy
  Salbutamol
Excl.:
  beta-adrenoreceptor agonists not used in asthma therapy (T44.5)
  anterior pituitary [adenohypophyseal] hormones (T38.8)
T48.7 Other and unspecified agents primarily acting on the respiratory system

T49 Poisoning by topical agents primarily affecting skin and mucous membrane and by ophthalmological, otolaryngological and dental drugs
Incl.:
  glucocorticoids, topically used
T49.0 Local antifungal, anti-infective and anti-inflammatory drugs, not elsewhere classified
T49.1 Antipruritics
T49.2 Local astringents and local detergents
T49.3 Emollients, demulcients and protectants
T49.4 Keratolytics, keratoplastics and other hair treatment drugs and preparations
T49.5 Ophthalmological drugs and preparations
  Eye anti-infectives
T49.6 Otorhinolaryngological drugs and preparations
  Ear, nose and throat anti-infectives
T49.7 Dental drugs, topically applied
T49.8 Other topical agents
  Spermicides
T49.9 Topical agent, unspecified

T50 Poisoning by diuretics and other and unspecified drugs, medicaments and biological substances
T50.0 Mineralocorticoids and their antagonists
T50.1 Loop [high-ceiling] diuretics
T50.2 Carbonic-anhydrase inhibitors, benzothiadiazides and other diuretics
  Acetazolamide
T50.3 Electrolytic, caloric and water-balance agents
  Oral rehydration salts
T50.4 Drugs affecting uric acid metabolism
T50.5 Appetite depressants
T50.6 Antidotes and chelating agents, not elsewhere classified
  Alcohol deterrents
T50.7 Analeptics and opioid receptor antagonists
T50.8 Diagnostic agents
T50.9 Other and unspecified drugs, medicaments and biological substances
  Acidifying agents
  Alkalizing agents
  Immunoglobulins
  Immunologicals
  Lipotropic drugs
  Parathyroid hormones and derivatives

X40 Accidental poisoning by and exposure to nonopioid analgesics, antipyretics and antirheumatics
Incl.:
  4-aminophenol derivatives
  nonsteroidal anti-inflammatory drugs [NSAID]
  pyrazolone derivatives
  salicylates

X41 Accidental poisoning by and exposure to antiepileptic, sedative-hypnotic, antiparkinsonism and psychotropic drugs, not elsewhere classified
Incl.:
  antidepressants
  barbiturates
  hydantoin derivatives
  iminostilbenes
  methaqualone compounds
  neuroleptics
  psychostimulants
succinimides and oxazolidinediones 
tranquillizers

X42 Accidental poisoning by and exposure to narcotics and psychodysleptics [hallucinogens], not elsewhere classified
Incl.:
cannabis (derivatives)
cocaine
codeine
heroin
lysergide [LSD]
mescaline
methadone
morphine
opium (alkaloids)

X43 Accidental poisoning by and exposure to other drugs acting on the autonomic nervous system
Incl.:
parasympathomlytics [anticholinergics and antimuscarinics] and spasmylytics
parasympathomimetics [cholinergics]
sympathomlytics [antiadrenergics]
sympathomimetics [adrenergics]

X44 Accidental poisoning by and exposure to other and unspecified drugs, medicaments and biological substances
Incl.:
agents primarily acting on smooth and skeletal muscles and the respiratory system
anaesthetics (general)(local)
drugs affecting the:
  • cardiovascular system
  • gastrointestinal system
hormones and synthetic substitutes
systemic and haematological agents
systemic antibiotics and other anti-infectives
therapeutic gases
topical preparations
vaccines
water-balance agents and drugs affecting mineral and uric acid metabolism

X60 Intentional self-poisoning by and exposure to nonopioid analgesics, antipyretics and antirheumatics
Incl.:
4-aminophenol derivatives
nonsteroidal anti-inflammatory drugs [NSAID]
pyrazolone derivatives
salicylates
X61 Intentional self-poisoning by and exposure to antiepileptic, sedative-hypnotic, antiparkinsonism and psychotropic drugs, not elsewhere classified
Incl.:
- antidepressants
- barbiturates
- hydantoin derivatives
- iminostilbenes
- methaqualone compounds
- neuroleptics
- psychostimulants
- succinimides and oxazolidinediones
- tranquilizers

X62 Intentional self-poisoning by and exposure to narcotics and psychodysleptics [hallucinogens], not elsewhere classified
Incl.:
- cannabis (derivatives)
- cocaine
- codeine
- heroin
- lysergide [LSD]
- mescaline
- methadone
- morphine
- opium (alkaloids)

X63 Intentional self-poisoning by and exposure to other drugs acting on the autonomic nervous system
Incl.:
- parasympatholytics [anticholinergics and antimuscarinics] and spasmyloytics
- parasympathomimetics [cholinergics]
- sympatholytics [antiaadrenergics]
- sympathomimetics [adrenergics]

X64 Intentional self-poisoning by and exposure to other and unspecified drugs, medicaments and biological substances
Incl.:
- agents primarily acting on smooth and skeletal muscles and the respiratory system
  anaesthetics (general)(local)
- drugs affecting the:
  - cardiovascular system
  - gastrointestinal system
- hormones and synthetic substitutes
- systemic and haematological agents
- systemic antibiotics and other anti-infectives
- therapeutic gases
- topical preparations
- vaccines
- water-balance agents and drugs affecting mineral and uric acid metabolism
X85 Assault by drugs, medicaments and biological substances
Incl.:
  homicidal poisoning by (any):
    • biological substance
    • drug
    • medicament

Y10 Poisoning by and exposure to nonopioid analgesics, antipyretics and antirheumatics, undetermined intent
Incl.:
  4-aminophenol derivatives
  nonsteroidal anti-inflammatory drugs [NSAID]
  pyrazolone derivatives
  salicylates

Y11 Poisoning by and exposure to antiepileptic, sedative-hypnotic, antiparkinsonism and psychotropic drugs, not elsewhere classified, undetermined intent
Incl.:
  antidepressants
  barbiturates
  hydantoin derivatives
  iminostilbenes
  methaqualone compounds
  neuroleptics
  psychostimulants
  succinimides and oxazolidinediones
  tranquilizers

Y12 Poisoning by and exposure to narcotics and psychodysleptics [hallucinogens], not elsewhere classified, undetermined intent
Incl.:
  cannabis (derivatives)
  cocaine
  codeine
  heroin
  lysergide [LSD]
  mescaline
  methadone
  morphine
  opium (alkaloids)

Y13 Poisoning by and exposure to other drugs acting on the autonomic nervous system, undetermined intent
Incl.:
  parasympatholytics [anticholinergics and antimuscarinics] and spasmyloytics
  parasympathomimetics [cholinergics]
  sympatholytics [antiadrenergics]
  sympathomimetics [adrenergics]
Y14 Poisoning by and exposure to other and unspecified drugs, medicaments and biological substances, undetermined intent

Incl.:
agents primarily acting on smooth and skeletal muscles and the respiratory system
anaesthetics (general)(local)
drugs affecting the:
  • cardiovascular system
  • gastrointestinal system
hormones and synthetic substitutes
systemic and haematological agents
systemic antibiotics and other anti-infectives
therapeutic gases
topical preparations
vaccines
water-balance agents and drugs affecting mineral and uric acid metabolism