

Appendix III: Technical Notes

Injury Mechanism and Intent Categories

In this report, the injury mechanism and intent were determined by International Classification of Disease (ICD) 9th revision codes. Each hospital reports a primary e-code (External cause of injury code) for every injury related visit. The CDC's *Recommended Framework for Presenting Injury Mortality Data* was used to assign e-codes to the specific mechanism and intent categories.

Mortality Rates

All rates in this report are presented per 100,000 population.

Age-specific rates (those for a particular age group) are calculated by dividing the total number of deaths in that age group by the total population for that age group and multiplied by 100,000.

$$\text{rate} = \left(\frac{\text{deaths}}{\text{population}} * 100,000 \right)$$

All rates that are not for specific age groups in this report are presented as age adjusted rates. Age adjusted rates allow for comparisons between populations that may have very different age-distributions. Since age is strongly related to death rates, it is important to compensate for differences between populations. The direct method of age adjustment is used to compute all age adjusted rates in this report. The 2000 U.S. population was used as the standard population. A weight was calculated for each age group. The weight is equal to that age group's proportion of the entire 2000 U.S. population. The age-specific injury rate was then calculated for each age group in the population of interest. Each age-specific rate was then multiplied by the weight for that age group. The weighted age-specific rates for all age groups were then added up to calculate the age-specific rate for that population.

$$\text{age adjusted rate} = \sum_{\text{all age groups}} \left(\left(\frac{\text{deaths}}{\text{population}} * 100,000 \right) * \text{weight} \right)$$

The age groups used to calculate age adjusted rates in this report are as follows: <1 year, 1-4 years, 5-9 years, 10-14 years, 15-19 years, 20-24 years, 25-29 years, 30-34 years, 35-44 years, 45-54 years, 55-64 years, 65+ years.

Poisoning/Drug Overdose Substances

Nonopioid analgesics, antipyretics and antirheumatics

4-aminophenol derivatives (acetaminophen)
nonsteroidal anti-inflammatory drugs (ibuprofen, naproxen, COX-2 inhibitors)
pyrazolone derivatives
salicylates (aspirin)

Antiepileptic, sedative-hypnotic, antiparkinsonism and psychotropic drugs

antidepressants (ex: Prozac, Zoloft)
barbiturates
hydantoin derivatives (anti-convulsants ex: Dilantin)
iminostilbenes (anti-convulsants)
methaqualone compounds (depressant)
neuroleptics (anti-psychotics ex: Thorazine, Haldol)
psychostimulants (ex: Ritalin)
succinimides and oxazolidinediones (anti-convulsants)
tranquilizers

Narcotics and psychodysleptics [hallucinogens], Not Elsewhere Classified

cannabis
cocaine
codeine
heroin
lysergide (LSD)
mescaline
methadone
morphine
opium

Other drugs acting on the autonomic nervous system

parasympatholytics [anticholinergics and antimuscarinics] and spasmolytics
parasympathomimetics [cholinergics]
sympatholytics [antiadrenergics]
sympathomimetics [adrenergics]

Other and unspecified drugs, medicaments and biological substances

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

Alcohol

Not Otherwise Specified
butyl
ethyl
isopropyl
methyl
propyl
fusel oil

Organic solvents and halogenated hydrocarbons and their vapors

benzene and homologues
carbon tetrachloride
chlorofluorocarbons
petroleum and derivatives

Other gases and vapors

carbon monoxide
lacrimogenic gas (tear gas)
motor vehicle exhaust
nitrogen oxides
sulfur dioxide
utility gas

Pesticides

fumigants
fungicides
herbicides
insecticides
rodenticides
wood preservatives

Other and unspecified chemicals and noxious substances

corrosive aromatics, acids, and caustic alkalis
glues and adhesives
metals including fumes and vapors
paints and dyes
plant foods and fertilizers
poisoning, not otherwise specified
poisonous foods and plants
soaps and detergents