



## Drug Overdose Indicator

### Nonfatal Drug Overdose Hospitalizations OR ED Visits

#### Numerator for Nonfatal Drug Overdose Hospitalizations:

- Nonfatal hospitalizations from the Drug Overdose hospitalizations with any of the following ICD-10-CM diagnosis codes in any field.

#### Numerator for Nonfatal Drug Overdose ED Visits:

- Nonfatal ED visits from the Drug Overdose ED visit subset with any of the following ICD-10-CM diagnosis codes in any field.

### Codes\* for Nonfatal Drug Overdose

Indicator	Any Mention of Diagnosis	AND a 5 <sup>th</sup> /6 <sup>th</sup> character of:
<b>All drug overdoses</b>	<b>T36-T50:</b> Poisoning by drugs, medicaments and biological substances	For T36.9, T37.9, T39.9, T41.4, T42.7, T43.9, T45.9, T47.9, and T49.9, a 5th character; for all others, a 6th character  1: Accidental (unintentional) 2: Intentional self-harm 3: Assault 4: Undetermined intent  <i>Does not include:</i> 5: Adverse effect 6: Underdosing
<b>Opioid overdoses</b>	<b>T40.0X:</b> Poisoning by opium <b>T40.1X:</b> Poisoning by heroin <b>T40.2X:</b> Poisoning by other opioids <b>T40.3X:</b> Poisoning by methadone <b>T40.4X:</b> Poisoning by synthetic narcotics <b>T40.60:</b> Poisoning by unspecified narcotics <b>T40.69:</b> Poisoning by other narcotics	
<b>Heroin overdoses</b>	<b>T40.1X:</b> Poisoning by heroin	
<b>Stimulant overdoses</b>	<b>T40.5X:</b> Poisoning by cocaine <b>T43.60:</b> Poisoning by unspecified psychostimulants <b>T43.61:</b> Poisoning by caffeine <b>T43.62:</b> Poisoning by amphetamines <b>T43.63:</b> Poisoning by methylphenidate <b>T43.64:</b> Poisoning by ecstasy <b>T43.69:</b> Poisoning by other psychostimulants	

\*7th character of A or missing (reflects initial encounter, active treatment)

**Denominator:**

- Midyear population for the calendar year under surveillance obtained from the U.S. Census Bureau or suitable alternative.

**Measures of frequency:**

- Annual number of hospitalizations or ED visits, by age group and sex.
- Annual age-adjusted rates, overall and by sex, standardized by the direct method to the year 2000 standard U.S. population.<sup>2,11</sup>

**Period for case definition:**

- Calendar year based on date of discharge.

**Indicator notes:**

- The Drug Overdose Indicators for use with hospitalization and ED visits data include cases with an injury diagnosis code in any field. **For hospitalization indicators, this broad definition is NOT in line with the other injury hospitalization indicators, where the injury subset is restricted to cases where the principal diagnosis is injury.** The unique hospitalization definition for Drug Overdose indicators reflects the recommendations and findings of the CSTE ICD-10-CM Drug Poisoning Indicators Workgroup. For ED visit indicators, this broad definition is in line with the other injury ED indicators presented in this toolkit.
- The ED visit indicator does not include cases that were admitted to the hospital.
- Using an “any mention” approach may reduce the specificity of the indicators. The sensitivity and specificity of these indicators may vary by year, hospital location, and drug type.

**Limitations of data sources:**

- Overdoses that result in hospitalizations or ED visits represent only a portion of the overall burden of drug overdose.
- Indicators in ICD-9-CM are not comparable to ICD-10-CM.
- The accuracy of indicators based on codes found in hospitalization and ED visit data are limited by the completeness and quality of coding.