



## Prescription Drug Overdose in the United States: Fact Sheet

### Overview

### Definitions

**Drug:** Any chemical compound used for the diagnosis or treatment of disease or injury, for the relief of pain, or for the feeling it causes. A drug is either a pharmaceutical (including both prescription and over-the-counter products) or illicit.

**Overdose:** When a drug is eaten, inhaled, injected, or absorbed through the skin in excessive amounts and injures the body. Overdoses are either intentional or unintentional. If the person taking or giving a substance did not mean to cause harm, then it is unintentional.

**Misuse or abuse:** The use of illicit or prescription or over-the-counter drugs in a manner other than as directed.<sup>2</sup>

Deaths from drug overdose have been rising steadily over the past two decades and have become the leading cause of injury death in the United States.<sup>1</sup> Every day in the United States, 114 people die as a result of drug overdose<sup>1</sup>, and another 6,748 are treated in emergency departments (ED) for the misuse or abuse of drugs.<sup>2</sup> Nearly 9 out of 10 poisoning deaths are caused by drugs.<sup>3</sup>

### The Problem

- Drug overdose was the leading cause of injury death in 2012. Among people 25 to 64 years old, drug overdose caused more deaths than motor vehicle traffic crashes.<sup>1</sup>
- Drug overdose death rates have been rising steadily since 1992 with a 117% increase from 1999 to 2012 alone.<sup>1</sup>
- In 2012, 33,175 (79.9%) of the 41,502 drug overdose deaths in the United States were unintentional, 5,465 (13.2%) were of suicidal intent, 80 (0.2%) were homicides, and 2,782 (6.7%) were of undetermined intent.<sup>1</sup>
- In 2011, drug misuse and abuse caused about 2.5 million emergency department (ED) visits. Of these, more than 1.4 million ED visits were related to pharmaceuticals.<sup>2</sup>
- Between 2004 and 2005, an estimated 71,000 children (18 or younger) were seen in EDs each year because of medication overdose (excluding self-harm, abuse and recreational drug use).<sup>4</sup>
- Among children under age 6, pharmaceuticals account for about 40% of all exposures reported to poison centers.<sup>5</sup>

### Most Common Drugs Involved in Overdoses

- In 2012, of the 41,502 drug overdose deaths in the United States, 22,114 (53%) were related to pharmaceuticals.<sup>6</sup>
- Of the 22,114 deaths relating to pharmaceutical overdose in 2012, 16,007 (72%) involved opioid analgesics (also called opioid pain relievers or prescription painkillers), and 6,524 (30%) involved benzodiazepines.<sup>6</sup> (Some deaths include more than one type of drug.)

- In 2011, about 1.4 million ED visits involved the nonmedical use of pharmaceuticals. Among those ED visits, 501,207 visits were related to anti-anxiety and insomnia medications, and 420,040 visits were related to opioid analgesics.<sup>2</sup>
- Benzodiazepines are frequently found among people treated in EDs for misusing or abusing drugs.<sup>2</sup> People who died of drug overdoses often had a combination of benzodiazepines and opioid analgesics in their bodies.<sup>6</sup>

#### Costs

- In the United States, prescription opioid abuse costs were about \$55.7 billion in 2007.<sup>7</sup> Of this amount, 46% was attributable to workplace costs (e.g., lost productivity), 45% to healthcare costs (e.g., abuse treatment), and 9% to criminal justice costs.<sup>7</sup>

#### Risk Factors for Drug Overdose

Among those who died from drug overdose in 2012:

- Men were 59% more likely than women to die;
- Whites had the highest death rate, followed by American Indians/Alaska Natives and then blacks;
- The highest death rate was among people 45-49 years of age; and
- The lowest death rates were among children less than 15 years old because they do not abuse drugs as frequently as older people.<sup>1</sup>

Among people who misused or abused drugs and received treatment in emergency departments in 2011:

- 56% were males;
- 82% were people 21 or older.<sup>2</sup>

#### References

1. Centers for Disease Control and Prevention. Web-based Injury Statistics Query and Reporting System (WISQARS) [online]. (2014) Available from URL: <http://www.cdc.gov/injury/wisqars/fatal.html>.
2. Substance Abuse and Mental Health Services Administration. Highlights of the 2011 Drug Abuse Warning Network (DAWN) findings on drug-related emergency department visits. The DAWN Report. Rockville, MD: US Department of Health and Human Services, Substance Abuse and Mental Health Services Administration; 2013. Available from URL: <http://www.samhsa.gov/data/2k13/DAWN127/sr127-DAWN-highlights.htm>
3. Paulozzi LJ. Prescription drug overdoses: a review. *Journal of Safety Research*, 2012; <http://dx.doi.org/10.1016/j.jsr.2012.08.009>
4. Schillie SF, Shehab, N, Thomas, KE, Budnitz DS. Medication overdoses leading to emergency department visits among children. *Am J Prev Med* 2009;37:181-187.
5. Mowry JB, Spyker DA, Cantilena LR, Bailey JEFord M. 2012 Annual report of the American Association of Poison Control Centers' National Poison Data System (NPDS): 30th annual report. *Clin Tox* 2013;51:949-1229.
6. Centers for Disease Control and Prevention. National Vital Statistics System mortality data. (2012) Available from URL: <http://www.cdc.gov/nchs/deaths.htm>.
7. Birnbaum HG, White AG, Schiller M, Waldman T, Cleveland JM, and Roland CL. Societal costs of prescription opioid abuse, dependence, and misuse in the United States. *Pain Medicine* 2011; 12: 657-667.