

# SAMHSA Opioid Overdose Prevention TOOLKIT:

## Facts for Community Members





# TABLE OF CONTENTS

## Facts for Community Members

<b>Facts for Community Members .....</b>	<b>1</b>
Scope of the Problem.....	1
Strategies to Prevent Overdose Deaths.....	2
Resources for Communities .....	4
<b>References .....</b>	<b>5</b>
<b>Acknowledgements.....</b>	<b>6</b>

# FACTS FOR COMMUNITY MEMBERS

## SCOPE OF THE PROBLEM

**O**pioid overdose continues to be a major public health problem in the United States. It has contributed significantly to accidental deaths among those who use or misuse illicit and prescription opioids. In fact, U.S. overdose deaths involving prescription opioid analgesics increased to about 19,000 deaths in 2014<sup>1,2</sup> more than three times the number in 2001. According to Centers for Disease Control and Prevention (CDC) data, health care providers wrote 259 million prescriptions for painkillers in 2012, enough for every American adult to have a bottle of pills.<sup>3-4</sup>

**WHAT ARE OPIOIDS?** Opioids include illegal drugs such as heroin, as well as prescription medications used to treat pain such as morphine, codeine, methadone, oxycodone (OxyContin®, Percodan®, Percocet®), hydrocodone (Vicodin®, Lortab®, Norco®), fentanyl (Duragesic®, Fentora®), hydromorphone (Dilaudid®, Exalgo®), and buprenorphine (Subutex®, Suboxone®).

Opioids work by binding to specific receptors in the brain, spinal cord, and gastrointestinal tract. In doing so, they minimize the body's perception of pain. However, stimulating the opioid receptors or "reward centers" in the brain can also trigger other systems of the body, such as those responsible for regulating mood, breathing, and blood pressure.

**HOW DOES OVERDOSE OCCUR?** A variety of effects can occur after a person takes opioids, ranging from pleasure to nausea, vomiting, severe allergic reactions (anaphylaxis), and overdose, in which breathing and heartbeat slow or even stop.

Opioid overdose can occur when a patient deliberately misuses a prescription opioid or an illicit drug such as heroin. It can also occur when a patient takes an opioid as directed, but the prescriber miscalculated the opioid dose or an error was made by the dispensing pharmacist or the patient misunderstood the directions for use.

Also at risk are individuals who misuse opioids and combine them with sedative hypnotic agents resulting in sedation and respiratory depression.<sup>5,6</sup>

**WHO IS AT RISK?** Anyone who uses opioids for long-term management of chronic cancer or non-cancer pain is at risk for opioid overdose, as are persons who use heroin.<sup>7</sup> Others at risk include persons who are:

- Receiving rotating opioid medication regimens (and thus are at risk for incomplete cross-tolerance).
- Discharged from emergency medical care following opioid intoxication or poisoning.
- At high risk for overdose because of a legitimate medical need for analgesia, coupled with a suspected or confirmed substance use disorder, or non-medical use of prescription or illicit opioids.
- Completing mandatory opioid detoxification or abstinent for a period of time (and presumably with reduced opioid tolerance and high risk of relapse to opioid use).
- Recently released from incarceration and who have a history of opioid use disorder (and presumably have reduced opioid tolerance and high risk of relapse to opioid use).

*Tolerance develops when someone uses an opioid drug regularly, so that their body becomes accustomed to the drug and needs a larger or more frequent dose to continue to experience the same effect.*

*Loss of tolerance occurs when someone stops taking an opioid after long term use. When someone loses tolerance and then takes the opioid drug again, they can experience serious adverse effects, including overdose, even if they take an amount that caused them no problem in the past.*

# FACTS FOR COMMUNITY MEMBERS

## STRATEGIES TO PREVENT OVERDOSE DEATHS

**STRATEGY 1: Encourage providers, persons at high risk, family members, and others to learn how to prevent and manage opioid overdose.** Providers should be encouraged to keep their knowledge current about evidence-based practices for the use of opioid analgesics to manage pain, as well as specific steps to prevent and manage opioid overdose.

Federally funded Continuing Medical Education courses are available to providers at no charge at <http://www.OpioidPrescribing.com> (a series of courses funded by the Substance Abuse and Mental Health Services Administration [SAMHSA]).

Helpful information for laypersons on how to prevent and manage overdose is available from Project Lazarus at <http://www.projectlazarus.org> or from the Massachusetts Health Promotion Clearinghouse at <http://www.mclearinghouse.org>.

**STRATEGY 2: Ensure access to treatment for individuals who are misusing or addicted to opioids or who have other substance use disorders.** Effective treatment of substance use disorders can reduce the risk of overdose and help overdose survivors attain a healthier life. Medication-assisted treatment, as well as counseling and other supportive services, can be obtained at SAMHSA-certified and Drug Enforcement Administration (DEA)-registered opioid treatment programs (OTPs), as well as from physicians who are trained to provide care in office-based settings with medications such as buprenorphine and naltrexone.

Information on treatment services available in or near your community can be obtained from your state health department, your state alcohol and drug agency, or SAMHSA (see page 4).

**STRATEGY 3: Ensure ready access to naloxone.** Opioid overdose-related deaths can be prevented when naloxone is administered in a timely manner. As a narcotic antagonist, naloxone displaces opiates from receptor sites in the brain and reverses respiratory depression that usually is the cause of overdose deaths.<sup>7</sup>

On the other hand, naloxone is not effective in treating overdoses of benzodiazepines (such as Valium®, Xanax®, or Klonopin®), barbiturates (Seconal® or Fiorinal®), clonidine, Elavil®, GHB, ketamine, or synthetics. It is also not effective in overdoses with stimulants, such as cocaine and amphetamines (including methamphetamine and Ecstasy). However, if opioids are taken in combination with other sedatives or stimulants, naloxone may be helpful.

Naloxone injection has been approved by the United States Food and Drug Administration (FDA) and used for more than 40 years by emergency medical services (EMS) personnel to reverse opioid overdose and resuscitate persons who otherwise might have died in the absence of treatment.<sup>8</sup>

*Encourage providers and others to learn about preventing and managing opioid overdose*

*Ensure access to treatment for individuals who are misusing or addicted to opioids or who have other substance use disorders.*

# FACTS FOR COMMUNITY MEMBERS

Naloxone does not have the potential for abuse. It reverses the effects of opioid overdose.<sup>9</sup> Injectable naloxone is relatively inexpensive. It typically is supplied as a kit with two syringes<sup>10</sup> These kits require training on how to administer naloxone using a syringe. The FDA has also approved an intranasal naloxone product, called Narcan® Nasal Spray, and a naloxone auto-injector, called Evzio®. The intranasal spray is a pre-filled, needle-free device that requires no assembly. The auto-injector can deliver a dose of naloxone through clothing, if necessary, when placed on the outer thigh.

Prior to 2012, just six states had any laws that expanded access to naloxone or limited criminal liability.<sup>11</sup> Today, 42 states and the District of Columbia have statutes that provide criminal liability protections to laypersons or first responders who administer naloxone. Thirty-nine states and the District of Columbia have statutes that provide civil liability protections to laypersons or first responders who administer naloxone. Thirty-eight states have statutes that offer criminal liability protections for prescribing or distributing naloxone. Thirty-three states have statutes that offer civil liability protections for prescribing or distributing naloxone. And 42 states have statutes that allow naloxone distribution to third parties or first responders via direct prescription or standing order. To find states that have adopted relevant laws, visit the White House website at [https://www.whitehouse.gov/sites/default/files/ondcp/Blog/naloxonecirclechart\\_january2016.pdf](https://www.whitehouse.gov/sites/default/files/ondcp/Blog/naloxonecirclechart_january2016.pdf).

**STRATEGY 4: Encourage the public to call 911.** An individual who is experiencing opioid overdose needs immediate medical attention. An essential first step is to get help from someone with medical expertise as quickly as possible.<sup>12-13</sup> Therefore, members of the public should be encouraged to call 911. All they have to say is “Someone is not breathing” and give a clear address and location. Thirty-two states and the District of Columbia have “Good Samaritan” statutes that prevent arrest, charge, or prosecution for possession of a controlled substance or paraphernalia if emergency assistance is sought for someone who is experiencing an opioid-induced overdose.

**STRATEGY 5: Encourage prescribers to use state Prescription Drug Monitoring Programs.** State Prescription Drug Monitoring Programs (PDMPs) have emerged as a key strategy for addressing the misuse of prescription opioids and thus preventing opioid overdoses and deaths. Specifically, prescribers can check their state’s PDMP database to determine whether a patient is filling the prescriptions provided and/or obtaining prescriptions for the same or a similar drug from multiple prescribers.

While nearly all states now have operational PDMPs, the programs differ from state to state in terms of the exact information collected, how soon that information is available to prescribers, and who may access the data. Therefore, information about the program in a particular state is best obtained directly from the state PDMP or from the board of medicine or pharmacy.

*Encourage  
the public to  
call 911.*

*Encourage  
prescribers  
to use state  
Prescription  
Drug  
Monitoring  
Programs.*

# FACTS FOR COMMUNITY MEMBERS

## RESOURCES FOR COMMUNITIES

Resources that may be useful to local communities and organizations are found at:

### Substance Abuse and Mental Health Services Administration (SAMHSA)

- National Helpline:  
1-800-662-HELP (4357) or 1-800-487-4889 (TDD — for hearing impaired)
- Behavioral Health Treatment Locator:  
<https://findtreatment.samhsa.gov> to search by address, city, or zip code
- Buprenorphine Treatment Physician Locator:  
<http://www.samhsa.gov/medication-assisted-treatment/physician-program-data/treatment-physician-locator>
- State Substance Abuse Agencies:  
<https://findtreatment.samhsa.gov/TreatmentLocator/faces/about.jspx>
- Center for Behavioral Health Statistics and Quality (CBHSQ):  
<http://www.samhsa.gov/data>
- SAMHSA Publications: <http://store.samhsa.gov>  
1-877-SAMHSA (1-877-726-4727)

### Centers for Disease Control and Prevention (CDC)

<http://www.cdc.gov/drugoverdose/epidemic>  
<http://www.cdc.gov/homeandrecreationalafety/poisoning>

### White House Office of National Drug Control Policy (ONDCP)

State and Local Information: <http://www.whitehouse.gov/ondcp/state-map>

### Association of State and Territorial Health Officials

(ASTHO) ASTHO 214 Policy Inventory: State Action to Prevent and Treat Prescription Drug Abuse: <http://www.astho.org/rx/profiles/Rx-Survey-Highlights>

### National Association of State Alcohol and Drug Abuse Directors (NASADAD)

Overview of State Legislation to Increase Access to Treatment for Opioid Overdose:

<http://nasadad.org/wp-content/uploads/2015/09/Opioid-Overdose-Policy-Brief-2015-Update-FINAL1.pdf>

### American Association for the Treatment of Opioid Dependence (AATOD)

Prevalence of Prescription Opioid Abuse:

<http://www.aatod.org/projectseducational-training/prevalance-of-prescription-opioid-abuse>

*Resources  
that may be  
useful to  
local  
communities  
and  
organizations*

...

# REFERENCES

## References

- <sup>1</sup> Number and age-adjusted rates of drug-poisoning deaths involving opioid analgesics and heroin: United States, 2000–2014. Centers for Disease Control and Prevention Website. [http://www.cdc.gov/nchs/data/health\\_policy/AADR\\_drug\\_poisoning\\_involving\\_OA\\_Heroin\\_US\\_2000-2014.pdf](http://www.cdc.gov/nchs/data/health_policy/AADR_drug_poisoning_involving_OA_Heroin_US_2000-2014.pdf). Accessed January 11, 2016.
- <sup>2</sup> Beletsky LB, Rich JD, Walley AY. Prevention of fatal opioid overdose. *JAMA*. 2012;308(18):1863-1864.
- <sup>3</sup> Centers for Disease Control and Prevention. CDC Vital Signs: Opioid painkiller prescribing—where you live makes a difference. <http://www.cdc.gov/vitalsigns/opioid-prescribing>. Published July 1, 2014. Accessed January 11, 2016.
- <sup>4</sup> Harvard Medical School. Painkillers fuel growth in drug addiction: opioid overdoses now kill more people than cocaine or heroin. *Harvard Ment Hlth Let*. 2011;27(7):4-5.
- <sup>5</sup> Brunton L, Chabner B, Knollman B. *Goodman and Gilman's The Pharmacological Basis of Therapeutics*. 12th ed. New York: McGraw-Hill; 2011.
- <sup>6</sup> Boyer EW. Management of opioid analgesic overdose. *N Engl J Med*. 2012;367(2):146-155.
- <sup>7</sup> Enteen L, Bauer J, McLean R, Wheeler E, Hurliaux E, Kral AH, Bamberger JD. Overdose prevention and naloxone prescription for opioid users in San Francisco. *J Urban Health*. 2010;87(6):931-941.
- <sup>8</sup> Seal KH, Thawley R, Gee L, et al. Naloxone distribution and cardiopulmonary resuscitation training for injection drug users to prevent heroin overdose death: a pilot intervention study. *J Urban Health*. 2005;82(2):303-311.
- <sup>9</sup> Bazazi AR, Zaller ND, Fu JJ, Rich JD. Preventing opiate overdose deaths: examining objections to take-home naloxone. *J Health Care Poor Underserved*. 2010;21(4):108–1113. doi:10.1353/hpu.2010.0935
- <sup>10</sup> Coffin PO, Sullivan SD. Cost effectiveness of distributing naloxone to heroin users for lay overdose reversal. *Ann Intl Med*. 2013;158(1):1-9.
- <sup>11</sup> Davis C. Legal interventions to reduce overdose mortality: naloxone access and overdose Good Samaritan laws. [https://www.networkforphl.org/\\_asset/qz5pvn/network-naloxone-10-4.pdf](https://www.networkforphl.org/_asset/qz5pvn/network-naloxone-10-4.pdf). Updated September 2015. Accessed January 11, 2016.
- <sup>12</sup> Strang J, Manning V, Mayet S, et al. Overdose training and take-home naloxone for opiate users: prospective cohort study of impact on knowledge and attitudes and subsequent management of overdoses. *Addiction*. 2008;103(10):1648-1657.
- <sup>13</sup> Green TC, Heimer R, Grau LE. Distinguishing signs of opioid overdose and indication for naloxone: an evaluation of six overdose training and naloxone distribution programs in the United States. *Addiction*. 2008;103(6):979-998.



# ACKNOWLEDGMENTS

## Acknowledgments

This publication was prepared for the Substance Abuse and Mental Health Services Administration (SAMHSA) by the Association of State and Territorial Health Officials, in cooperation with Public Health Research Solutions, under contract number 10-233-00100 with SAMHSA, U.S. Department of Health and Human Services (HHS). LCDR Brandon Johnson, M.B.A., served as the Government Project Officer.

## Disclaimer

The views, opinions, and content expressed herein are those of the authors and do not necessarily reflect the official position of SAMHSA or HHS. Nothing in this document constitutes an indirect or direct endorsement by SAMHSA or HHS of any non-federal entity's products, services, or policies, and any reference to a non-federal entity's products, services, or policies should not be construed as such. No official support of or endorsement by SAMHSA or HHS for the opinions, resources, and medications described is intended to be or should be inferred. The information presented here in this document should not be considered medical advice and is not a substitute for individualized patient or client care and treatment decisions.

## Public Domain Notice

All materials appearing in this volume except those taken directly from copyrighted sources are in the public domain and may be reproduced or copied without permission from SAMHSA or the authors. Citation of the source is appreciated. However, this publication may not be reproduced or distributed for a fee without the specific, written authorization of the Office of Communications, SAMHSA, HHS.

## Electronic Access and Copies of Publication

This publication may be ordered from SAMHSA's Publications Ordering Web page at <http://store.samhsa.gov>. Or, please call SAMHSA at 1-877- SAMHSA-7 (1-877-726-4727) (English).

## Recommended Citation

Substance Abuse and Mental Health Services Administration. SAMHSA Opioid Overdose Prevention Toolkit. HHS Publication No. (SMA) 16-4742. Rockville, MD: Substance Abuse and Mental Health Services Administration, 2016.

## Originating Office

Division of Pharmacologic Therapies, Center for Substance Abuse Treatment, Substance Abuse and Mental Health Services Administration, 1 Choke Cherry Road, Rockville, MD 20857.  
HHS Publication No. (SMA) 16-4742. First printed 2013. Revised 2014, 2016.



HHS Publication No. (SMA) 16-4742. First printed 2013. Revised 2014, 2016