

# OPIOID OVERDOSE REVERSAL MEDICATIONS

## ROLE OF OPIOID OVERDOSE REVERSAL MEDICATIONS (OORM)

OORMs are life-saving medications that reverse the effects of an acute opioid overdose and restore breathing. They are available to the public by prescription, through standing orders or without a prescription/"over-the-counter" at pharmacies and other retail outlets, or at no charge from local community-based organizations. Training is typically not required to obtain OORM and, when widely offered and used, OORM can reduce overdose fatality rates.<sup>18,19</sup>

The most known and used OORM is **naloxone**. Naloxone is FDA-approved and has been used for decades by emergency medical service (EMS) providers and lay people to reverse opioid overdose and resuscitate individuals who have experienced an overdose involving opioids. There are two primary ways naloxone can be administered. It can be given intranasally through a device that sprays the medication into the person's nose. It is also available as an injection into a person's muscle—typically the butt, shoulder, or thigh. Different FDA-approved naloxone products are available in different doses. Products may come in kits compiled by harm reduction or other community organizations, which may include two doses of the medication, syringes for administering intramuscular<sup>1</sup> naloxone if the medication is to be injected, gloves, a plastic face shield to support rescue breathing, and information on local resources; these harm reduction organization-provided kits have not been reviewed or approved by FDA.<sup>20</sup>

Another FDA-approved OORM is called **nalmefene**. This medication reverses the effects of opioids and can treat symptoms of an acute overdose. It remains in the body for significantly longer than naloxone, with a half-life of 11 hours compared to naloxone's half-life of 1.5 to 2 hours. Research has shown that this longer half-life can lead to extended withdrawal symptoms in people who are tolerant on opioids—however, how this affects a real-world overdose is unknown.<sup>21</sup> Injectable nalmefene was approved by FDA in 1995; however, nalmefene nasal spray was only recently approved in 2023 and does not yet have the same extensive field experience as naloxone. Please note:

- Everyone should keep an OORM on hand, but especially those who use opioids or other drugs or have friends or family members who use opioids or other drugs.
- If someone is having a medical emergency that is not an opioid overdose – such as a heart attack or diabetic coma- giving them naloxone and nalmefene will generally not have any effect or cause them additional harm.
- Brief education on how to administer naloxone can be obtained from the provider of the naloxone kit or online at <http://prescribetoprevent.org> or [www.getnaloxonenow.org](http://www.getnaloxonenow.org). Speak with your pharmacist or harm reduction provider to understand the products available to you and any training considerations.
- Over-the-counter naloxone products have directions for use on the Drug Facts Label of the product.

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<sup>1</sup> Naloxone can also be administered intravenously or subcutaneously

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## OORMS AVAILABLE TO THE PUBLIC

OORM	Brand	Formulation	Dosage	Availability	Considerations
<b>Naloxone</b>	N/A	Adaptable Nasal Spray	2 mg/ml	Rx, community naloxone distribution, harm reduction organizations	Assembly required to attach nasal spray adapter to needle-less syringe. Not approved by FDA. Possible to titrate to meet the needs of the patient and facilitate a gentler overdose reversal with potential for less severe withdrawal in people with opioids in their body.
<b>Naloxone</b>	RiVive™	Single-use Nasal Spray	3 mg	Rx, OTC, community naloxone distribution, harm reduction organizations	Lower dose can facilitate a gentler overdose reversal with less severe withdrawal in people with opioids in their body.
<b>Naloxone</b>	Narcan, generic	Single-use Nasal Spray	4 mg/0.1 ml	Rx, OTC, community naloxone distribution, harm reduction organizations	May cause withdrawal symptoms in people who have opioids in their body.
<b>Naloxone</b>	N/A	Single-dose Vial Intramuscular Injection; can also be given intravenously or subcutaneously	0.4 mg/ml	Rx, community naloxone distribution, harm reduction organizations	Has been studied and used in the real world to reverse overdoses for decades; cheapest naloxone available; easy to use.
<b>Naloxone</b>	Zimhi®	Intramuscular or subcutaneous Auto-Injection	5 mg/ml	Rx, community naloxone distribution, harm reduction organizations	Accessible product format that auto-injects the medication; high dose compared to other products; may cause severe withdrawal symptoms in people with opioids in their body.
<b>Naloxone</b>	Kloxxado®	Single-use Nasal Spray	8mg/0.1 ml	Rx, community naloxone distribution, harm reduction organizations	High dose compared to other products; may cause severe withdrawal symptoms in people with opioids in their body.
<b>Nalmefene</b>	Opvee	Single-use Nasal Spray	2.7 mg/0.1 ml	Rx, community naloxone distribution, harm reduction organizations	Longer lasting than naloxone but may cause severe extended withdrawal in people with opioids in their body.

Table 1. List of OORM brands, dosages, their efficacy, and possible side effects.

## OORM Q&A

### IS ANY NALOXONE BETTER THAN NO NALOXONE?

Yes, in the event of an overdose, administer any naloxone available. When stored under appropriate conditions, the shelf life of naloxone is 18-24 months for injectables, and 36-48 months for a nasal spray. It is important to check the expiration date of naloxone and replace it at regular intervals. However, studies show naloxone's stability remains at a usable standard even after multiple years of storage. While it may become less effective over time, research indicates that it does not cause harm if used past its expiration date.<sup>20,21,22,23</sup> No research is yet available on the long-term shelf life of nalmefene.<sup>24</sup>

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## CAN NALOXONE TREAT ANY OVERDOSE?

All OORMs are effective in reversing opioid overdose, including overdose caused by fentanyl. OORMs can be used in both youth and adult populations to reverse opioid-involved overdose. Use naloxone even if you are not sure what drugs someone took. OORM may be less effective if someone has used multiple different drugs, especially those that also have a sedating effect on the body, such as alcohol or benzodiazepines. Xylazine, an active ingredient in a sedative approved by FDA for use in animals, but not humans, is increasingly being mixed into the unregulated drug supply. These drugs may make overdose reversal even more challenging. If the person is still unresponsive after the first dose, a second dose can be administered. Wait 2-3 minutes before giving a second dose of naloxone.

## WHERE CAN I GET AN OORM?

Naloxone is available in all 50 states, territories, and Tribal Nations and communities. Ask your doctor, pharmacist, or other medical provider about naloxone, especially if you or someone you know is using opioids. Narcan in the 4mg nasal spray is now available for purchase over the counter in certain retail outlets with other products becoming available over-the-counter (e.g., RiVive™ 3mg naloxone nasal spray).

There are multiple options to obtain an OORM at no charge. Ask your local health department for more information or visit a harm reduction program. Many state and local health departments and behavioral health agencies now offer naloxone in public places through a vending machine, street-outreach, at fairs and festivals, or other local events. Some programs even offer naloxone delivery by mail or will deliver it to you. Keep an eye out for a “NaloxBox”—an emergency naloxone kit that can sometimes be found alongside public defibrillators.

## THERE ARE SO MANY KINDS OF OORM, HOW DO I DECIDE WHICH TO GET?

Preference for an OORM is individual and can depend on familiarity with and accessibility of different products, which varies by program or pharmacy retail outlet. The major difference between each product is the strength, concentration, cost, and how it is administered. When presented with options, consider:

1. All OORM have been approved by the FDA to reverse opioid overdose. They all act quickly to reverse an opioid overdose and restore breathing, and there is no difference in effectiveness between a nasal spray and a muscular injection.<sup>25</sup>
2. The higher the dose, the more likely and more severely someone who has developed tolerance to opioids will experience symptoms of withdrawal upon awakening.<sup>26</sup> Withdrawal symptoms are flu-like and can include muscle pain, sweating, gastrointestinal distress, and heightened anxiety. A person who responds to a low dose of naloxone will typically wake up slowly and gently, similar to coming out of anesthesia after surgery. More naloxone can always be administered if needed.
3. If you are comfortable using a needle and syringe, learn how to use intramuscular naloxone. It is significantly more affordable than nasal spray products and provides the standard dose used by EMS providers.

### **XYLAZINE IS A NON-OPIOID SEDATIVE THAT IS APPROVED BY FDA FOR ANIMAL USE, BUT NOT FOR PEOPLE.**

Xylazine is increasingly added to other drugs such as cocaine, heroin, or fentanyl to enhance the effect or increase street value. Effects of xylazine include difficulty breathing, dangerously low blood pressure, sedation, slowed heart rate, and skin lesions. A person who has taken xylazine may appear to have symptoms of opioid overdose. If you are providing first aid to a person who does not respond to naloxone, continue providing rescue breaths until EMS arrive.

It is important to note that people who use drugs are those who both experience overdose and also witness and reverse the most overdoses. Experiences of withdrawal, particularly when severe, can be traumatic and may result in people who use drugs avoiding or leaving medical care settings due to their withdrawal symptoms. As a result, it is critical for decision-makers and organizations that work in this area to support choice and interest in particular products when purchasing and distributing OORM.<sup>27</sup>

## DO I NEED TO GIVE MORE NALOXONE FOR A FENTANYL OVERDOSE?

Giving more than one dose of naloxone and using higher dose products may not be necessary when responding to a known fentanyl overdose.<sup>28</sup> An overdose may appear to need additional doses if other sedating drugs are present in the person's body, such as alcohol, benzodiazepines, or xylazine; however, rapidly giving more naloxone or using a stronger,

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more concentrated OORM will not necessarily speed up the reversal process. Multiple studies have found that despite the presence of fentanyl, more doses were not associated with improved outcomes.<sup>29,30,31,32</sup>

Administering a second dose too quickly after the first dose of an OORM may make it appear that multiple doses were needed. However, in some cases, waiting 2-3 minutes before administering a second dose and ensuring that effective rescue breaths are being provided would have been sufficient to reverse the overdose. Taking time to consider the effects of putting someone into withdrawal is compassionate and potentially lifesaving. Extreme experiences of withdrawal can be painful, dangerous, and traumatizing, leading to negative feelings towards naloxone and people who use it. Fear of withdrawal may prevent someone from seeking needed care or hiding their drug use to avoid having naloxone administered.<sup>33,34</sup>

# RESPONDING TO AN OVERDOSE

## RECOGNIZE THE SIGNS OF AN OVERDOSE

The following are signs and symptoms of an opioid overdose:

- Unconsciousness or inability to awaken.
- Slow or shallow breathing or difficulty breathing such as choking sounds or a gurgling/snoring noise from a person who cannot be awakened.
- Fingernails or lips turning blue/purple. For lighter skinned people, the skin tone may turn bluish purple; for darker skinned people, skin tone may turn pale/grayish or ashen.
- Pinpointed pupils or pupils that don't react to light.

*If an overdose is suspected, try first to wake the person up by calling the person's name. If this doesn't work, rub your knuckles on the person's upper lip or center of the chest.*

## IF THE PERSON DOES NOT RESPOND OR YOU ARE NOT SURE WHAT TO DO NEXT, CALL 911.

### AN OVERDOSE NEEDS IMMEDIATE MEDICAL ATTENTION.

If you suspect an overdose or are not sure what to do next, call 911. When the call connects, all you have to say is "someone is unresponsive and not breathing." Be sure to give a specific address and/or description of your location. After calling 911, follow the dispatcher's instructions.

### STEP 1 – ADMINISTER AN OPIOID OVERDOSE REVERSAL MEDICATION.

Naloxone and nalmefene are antidotes for opioid overdose. If overdose is suspected and the person is unresponsive, give an OORM as quickly as possible and then call 911. Naloxone and nalmefene do not cause harm if given to a person who is not experiencing opioid overdose.

If the person does not start breathing or otherwise respond **after 2-3 minutes**, administer a second dose of naloxone or nalmefene. Continue to give doses every 2-3 minutes until the person starts breathing.

### OVERDOSE RESPONSE STEPS

1. Check for a response.
2. Give naloxone or other OORM.
3. Call 911 and support the person's breathing. Administer rescue breaths or place the person in the recovery position.
4. Wait for EMS to arrive.

### DON'T LET STIGMA STOP YOU FROM SAVING A LIFE.

There is no "type" of person who experiences OUD or opioid overdose. Research has shown that women, older people, and those without obvious signs of OUD are undertreated with naloxone and, as a result, have a higher death rate. Use OORMs any time someone shows symptoms of overdose.

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## BREATH IS LIFE.

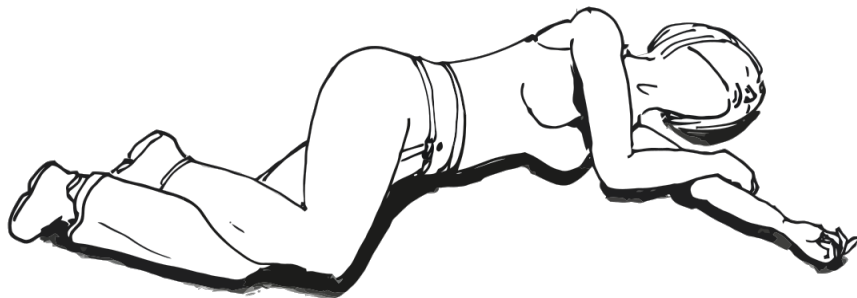
The goal of overdose reversal is to restore breathing. Breathing is more important than waking up.

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# RESPONDING TO AN OVERDOSE

## STEP 2 – SUPPORT THE PERSON’S BREATHING.

If you can, provide rescue breaths. When a person overdoses, they stop breathing and this can quickly cause damage to the brain and other organs. Giving oxygen through rescue breathing saves lives—in fact, early administration of oxygen may help prevent the need to use an OORM.<sup>14,15</sup> You may use a medical oxygen delivery device, if available.



If you do not have training in rescue breathing and chest compressions, follow the instructions of the 911 operator.

When breathing returns, gently place the person in the recovery position (see **Figure 2**). Roll the person onto their side with the top leg bent to support the position.

## STEP 3 – WAIT FOR EMERGENCY MEDICAL SERVICES TO ARRIVE

Naloxone wears off after 30-90 minutes and overdose symptoms may return. Encourage the person to receive treatment from EMS and/or go to an emergency department.<sup>1,20</sup>

**Know your rights!** Familiarize yourself with your state's Good Samaritan Laws. These laws provide limited immunity from certain civil or criminal consequences of drug use or rendering assistance in response to drug use in the event of an overdose.

Visit here for additional information on your state's Good Samaritan Laws: <https://www.networkforphl.org/resources/legal-interventions-to-reduce-overdose-mortality-overdose-good-samaritan-laws/>.

## POST-OVERDOSE TREATMENT CONSIDERATIONS

When people who have developed physical dependence on opioids are given naloxone or another OORM, they may start to breathe again, but they may also develop signs and symptoms of opioid withdrawal. These signs and symptoms may include body aches, diarrhea, fast heart rate, fever, runny nose, sneezing, gooseflesh, sweating, yawning, nausea or vomiting, nervousness, restlessness, or irritability, shivering or trembling, abdominal cramps, weakness, tearing, insomnia, opioid craving, dilated pupils, and increased blood pressure. These symptoms are uncomfortable and can be quite miserable, but they are generally not life threatening. Offer the person options for treatment, peer support, and harm reduction resources (e.g., contacts for the nearest harm reduction organization, fentanyl testing strips, OORM).

If the patient is receiving prescription opioids for pain management, help them contact their prescribing provider to discuss pain treatment options. For patients with OUD, an evidence-based, first line treatment for OUD is buprenorphine, which may help relieve withdrawal symptoms and can be prescribed by any Drug Enforcement Administration (DEA)-registered practitioner in accordance with their state laws. Methadone also is a highly effective treatment for OUD but is available only in special Opioid Treatment Programs (OTPs). Injectable naltrexone is an FDA-approved medication for the treatment of OUD but does not have the same withdrawal-relieving properties as buprenorphine or methadone.

## WHAT IF THE PERSON DOES NOT WANT FURTHER MEDICAL CARE?

If the person declines further medical care, assess whether the person understands the risks and benefits of that decision, then offer to stay with the person to monitor for the possible return of opioid overdose signs and symptoms. Stay with the person for at least 4 hours from the last dose of naloxone. If you cannot stay with the person, leave them with a friend or family member. Be sure that whoever remains with the person has access to OORM in case

### 988 IS THE SUICIDE & CRISIS

**LIFELINE.** Trained crisis counselors who respond to calls, texts, and chats are prepared to help anyone who needs support for a suicidal, mental health and/or substance use crisis. Sometimes a call to 988 requires the dispatch of EMS and/or police. However, if a person is experiencing an overdose and is breathing slowly or not breathing, they require immediate medical attention. Calling 911 is the best next step.

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overdose symptoms return. Use the 988 Crisis Lifeline as a resource for both the person who experienced the overdose and the responder to help them develop a safety plan to prevent a future overdose event.

Surviving an overdose can be a traumatic experience. Provide support, understanding, and empathy to the person.

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**The risk of a fatal overdose remains high even a year after a non-fatal opioid overdose event.**

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## DOS AND DON'TS WHEN RESPONDING TO AN OVERDOSE

There are important things to keep in mind to help protect a person's safety when they experience an overdose. The most effective intervention is opioid overdose reversal medications, such as naloxone. You should prioritize giving an opioid overdose reversal medication in accordance with the dos and don'ts below. Avoid actions that may cause further harm to the person.

**DO** attend to the person's breathing and cardiovascular needs by performing rescue breathing and/or chest compressions. Rescue breathing can be lifesaving itself. If you have access to it, administering supplemental oxygen can also be helpful.

**DO** administer an opioid overdose reversal medication if the person is not breathing. Give an additional dose if there is no response within 2-3 minutes of each dose.

**DO** put the person in the "recovery position" on their side, if you must leave them unattended for any reason, or if their breathing has returned but they are still not fully awake. In this case, monitor breathing closely.

**DON'T** slap or forcefully try to stimulate the person; it will only cause further injury. If you cannot wake the person by shouting or rubbing your knuckles on the sternum (center of the chest or rib cage), the person may be unconscious.

**DON'T** put the person into a cold bath or shower. This increases the risk of falling, drowning, or going into shock.

**DON'T** inject the person with any substance (e.g., saltwater, milk, stimulants). The only safe and appropriate treatment is an opioid overdose reversal medication.

**DON'T** try to make the person vomit drugs that may have been swallowed. Choking or inhaling vomit into the lungs can cause a fatal injury.

# APPENDIX 1: PEOPLE WHO USE DRUGS

Anyone who uses drugs may experience an overdose, but some factors increase or decrease risk. Harm reduction strategies can reduce the risk of overdose and support people in achieving self-determined goals related to their drug use, which may or may not include abstinence.

Table A- 1: Risk factor and associated harm reduction strategy

Overdose Risk Factor	Harm Reduction Strategy to Reduce Risk of Overdose
<b>You experience a recent period of not taking any opioids, such as an emergency department stay, jail, or detox, or you are starting to use opioids again after a period of non-use or administration of an opioid antagonist such as naloxone.</b>	<ul style="list-style-type: none"> <li>• Never use drugs alone, tell a friend or call 988 to talk about overdose risk with a professional or peer counselor.</li> <li>• Start with the lowest possible amount of drug.</li> <li>• Use or consume drugs slowly and observe their effects.</li> <li>• Test unregulated drugs purchased on the street for fentanyl.</li> <li>• <b>If you took medications such as methadone or buprenorphine while incarcerated but then stopped, starting to use street drugs upon release increases risk of overdose.</b></li> </ul>
<b>You are using any kind of drug.</b>	<ul style="list-style-type: none"> <li>• <b>Start low and go slow.</b> Start with a low dose and only increase gradually.</li> <li>• <b>Do not use alone.</b> Use with a trusted person who is alert and can respond in the event of overdose or let a trusted person know to check on you. Look up a local “never use alone” hotline.</li> <li>• <b>Stagger your use.</b> If you are using with a group, be sure that someone is alert and can respond in the event of overdose.</li> <li>• <b>Avoid using drugs, including opioids, with alcohol.</b> Taking opioids in combination with alcohol and/or other depressant medications like benzodiazepines or tranquilizers can greatly increase the risk of overdose.</li> <li>• <b>Always carry an OORM.</b> Be familiar with signs of an overdose and be prepared to respond with an OORM. See earlier section on OORM and responding to an overdose.</li> <li>• <b>Test it.</b> Using test strips or other drug checking equipment to determine the presence of fentanyl and other drugs can help you decide how to use a drug to reduce risk for overdose.</li> <li>• <b>Listen to your body.</b> Overall health can impact overdose risk. Rest, eat, and hydrate.<sup>15,16</sup></li> </ul>
<b>You are changing your method of administration of an opioid, altering the opioid by crushing it, or taking opioids differently from how they were prescribed.</b>	<ul style="list-style-type: none"> <li>• If you obtain unregulated opioids on the street, consider the increased risk of switching between different types and strengths of opioids, and test drugs to know the contents.</li> <li>• Your risk of overdose increases when injecting or smoking opioids as compared to snorting or swallowing them. You can reduce risk by using alternatives to injecting or smoking.</li> <li>• Crushing or otherwise manipulating prescription opioids can make the dose unpredictable, and risk of overdose increases if you snort instead of swallowing a drug.</li> </ul>

For more resources and harm reduction strategies created with and for people who use drugs, visit <https://harmreduction.org/>.



# APPENDIX 2: PEOPLE WHO TAKE PRESCRIPTION OPIOIDS

Opioids are effective at treating certain pain and other medical conditions under the supervision of a medical provider; however, their use can still place people at risk for physical dependence, opioid use disorder, and overdose.

Table A- 2: Prescription opioid medications for pain treatment

Overdose Risk Factor	Harm Reduction Strategy
<p><b>You are new to prescription opioids.</b></p>	<ul style="list-style-type: none"> <li>• Take all prescription medications as instructed by your medical provider or doctor.</li> <li>• Start with the lowest possible dose.</li> <li>• Go slowly. Only increase your dose if a lower dose is not effective and in consultation with your prescriber.</li> <li>• Talk to your prescriber, pharmacist, or a harm reduction program provider about risk reduction strategies.</li> <li>• If you have a history of a SUD, talk to your prescriber about alternatives to prescription opioids or an accountability plan to accompany the prescription. If you are concerned about a negative, rather than helpful, reaction from your prescriber, consider bringing a trusted person or advocate with you.</li> <li>• Make a plan to dispose of excess medications that you do not use.</li> <li>• Crushing or otherwise manipulating prescription opioids can make the dose unpredictable, and risk of overdose increases if you snort instead of swallow a drug.</li> <li>• <b>Avoid mixing your medication with alcohol or other sedating drugs.</b> Mixing opioids with alcohol and/or other depressant medications like benzodiazepines or tranquilizers can greatly increase the risk of overdose.</li> <li>• <b>Always carry an OORM.</b> Be familiar with signs of an overdose and be prepared to respond.</li> <li>• Listen to your body. Overall health can impact overdose risk. Rest, eat, and hydrate.<sup>15,16</sup></li> </ul>
<p><b>You are taking opioids for long-term management of chronic pain.</b></p>	<ul style="list-style-type: none"> <li>• Take all prescription medications as instructed by your medical provider or doctor.</li> <li>• Discuss non-opioid medications and non-medication treatments with your medical provider or doctor.</li> <li>• Plan for tolerance changes over time and prepare for its impact on pain experience.</li> <li>• Talk to your medical provider or doctor about any changes to medications and treatment for other conditions.</li> <li>• Make a plan to dispose of excess medications that you do not use.</li> <li>• Crushing or otherwise manipulating prescription opioids can make the dose unpredictable, and risk of overdose increases if you snort, inject, smoke, or rectally administer instead of swallowing a drug.</li> <li>• <b>Avoid mixing your medication with alcohol or other sedating drugs.</b> Mixing opioids with alcohol and/or other depressant medications like benzodiazepines or tranquilizers can greatly increase the risk of overdose.</li> <li>• <b>Always carry OORM.</b> Be familiar with signs of an overdose and be prepared to respond.</li> <li>• Listen to your body. Overall health can impact overdose risk. Rest, eat, and hydrate.<sup>13,17</sup></li> </ul>

For more information, visit Prescribe to Prevent at <https://prevent-protect.org/>. Compiled by prescribers, pharmacists, public health workers, lawyers, and researchers working on overdose prevention and naloxone access, this nongovernmental site provides healthcare providers with resources to educate patients on naloxone and overdose risk reduction.

## APPENDIX 3: PRACTITIONERS & HEALTH SYSTEMS

Research shows that people at risk of overdose frequently interact with the health system.<sup>35</sup> Whether they are prescribed opioids or obtain them from an illicit source, they may seek medical attention for various needs. Moreover, they may have been treated for a previous nonfatal overdose. Healthcare providers can support people at risk of overdose and are uniquely positioned to significantly impact overdose prevention and response efforts in their community.

### IF YOU ARE A MEDICAL PROVIDER:

- Use every interaction with a patient as an opportunity to discuss medication management and substance use, create an open dialogue about opioids and overdose risk, screen for substance use, and offer support.
- Create a practice of open dialogue with patients, encouraging them to share their questions and concerns about opioids. Respond to their questions and concerns using non-judgmental and non-stigmatizing language, sharing factual information, seeking understanding of the patient's goals and experiences, refraining from lecturing or patronizing, and approaching the interaction through a lens of shared decision-making.
- If a patient screens positive for and/or discloses substance use, assess for a potential diagnosis of a SUD and related treatment needs in a nonjudgmental manner. Not all patients are ready for or desire treatment. You can direct patients to local harm reduction programs e.g., syringe service program, offer linkage to treatment that includes MOUD, prescribe buprenorphine, or refer to local support groups (e.g., recovery community organizations).
- Familiarize yourself with addiction developmental theories, risk and protective factors, and the role Adverse Childhood Experiences and trauma play in risk for substance use disorders.
- Understanding the Stages of Change/Transtheoretical Model and Motivational Interviewing (MI) can also help providers engage with patients. MI is a practical technique for patient engagement across many chronic health conditions, including SUD. With awareness of what causes or contributes to substance use and SUDs, providers can challenge their assumptions about a person and treat them with greater compassion, dignity, and respect.
- Practice trauma-informed care and consider the possibility that a patient might feel stress during an appointment. This may prevent them from opening up about their needs.
- Integrate peer recovery specialists into the medical team.

### IF YOU ARE A PRESCRIBER OF OPIOIDS:

- Practice proper opioid stewardship by familiarizing yourself with the CDC's latest [opioid prescribing guidelines](#).
- Provide this Toolkit to patients and direct them to where they can learn more about the risks and benefits of opioid use, whether prescribed or obtained illicitly.
- Prescribe an OORM when you prescribe an opioid and encourage patients to have it on hand.
- Seek out education on medications for OUD, such as buprenorphine and methadone.

Federally funded continuing medical education courses are available at no charge at <https://pcssnow.org/> and <https://attcnetwork.org/>.

## OPIOID STEWARDSHIP

The CDC developed guidelines to improve communication between prescribers and patients about the risks and benefits of opioid therapy for acute, sub-acute, and chronic pain; improve the safety and effectiveness of pain treatment; and reduce the risks associated with opioid therapy including opioid use disorder, overdose, and death.<sup>36</sup> The 12 recommendations for prescribing opioids for adults with acute, sub-acute, or chronic pain are directed toward healthcare providers in the outpatient setting and are organized into four overarching categories: 1) determining whether or not to initiate opioids for pain, 2) selecting opioids and determining opioid dosages, 3) deciding duration of initial opioid prescription and conducting follow up, 4) and assessing risk and addressing potential harms of opioid use.<sup>36</sup>

**For patients receiving opioids for pain treatment**, each clinic visit is an important opportunity to reevaluate treatment goals, consider whether the functional benefits are outweighing the risks of opioids, whether the dose needs to be reduced, if the role of opioids or non-opioid treatment options should be reconsidered in the treatment plan, whether a

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transition to a different opioid treatment option such as buprenorphine is appropriate, or whether a referral to an OTP may be beneficial if a patient has an underlying OUD. **When a patient assessment identifies potentially harmful behaviors** (e.g., high-volume use of opioids; taking opioids in combination with alcohol, benzodiazepines, or other respiratory depressants; using illicit opioids where contents of substances cannot be confirmed), providers may offer education that can reduce that person's risk for overdose.

The patient may benefit from education on **harm reduction strategies** to reduce their unique risk factors such as testing drugs, not using alone, or carrying an OORM. Decrease opioid prescribing when risks outweigh benefits, and the patient is able to consider and access alternatives to pain management.

**Risk reduction messaging may also include information about other respiratory depressant medications a patient takes.** For example, benzodiazepines, anti-seizure medications, and many other psychiatric medications are depressants. Letting patients know that mixing these substances with opioids or taking more than prescribed in combination with opioids may increase overdose risk. OORM may be prescribed alongside any opioid.

**It is also advisable to suggest that the patient create an “overdose plan” to share with friends, partners, and/or caregivers.** Such a plan should contain information on the signs of overdose, how to administer an OORM or otherwise provide emergency care (i.e., calling 911).

### OPIOID USE DISORDER TREATMENT

**If a patient discloses opioid misuse and an assessment reveals that they have an OUD, there are medications that support treatment and reduce risk of overdose.** FDA-approved, evidence-based MOUDs include **methadone, buprenorphine with or without naloxone, and naltrexone.** These medications can reduce opioid misuse and significantly improve quality of life. Methadone treatment for OUD can be provided only in OTPs.

Buprenorphine can be prescribed by practitioners who have schedules III–V on their DEA registration, except for full time veterinarians. As of June 27, 2023, all practitioners with schedule II–V on their DEA registration will be required to complete a one-time, 8-hour training on opioid or SUD to obtain a new DEA registration or to renew their current DEA registration.

Naltrexone is an injectable medication that can be prescribed and administered by any provider with prescribing authority operating within their scope of practice. For many people with OUD, psychosocial and other behavioral health treatments in conjunction with MOUD may help them achieve and sustain recovery. However, **given the lethality of the illicit drug supply, medication access should not be made contingent upon participation in specific counseling or other treatment services.**<sup>38</sup>

Low barrier models of care facilitate engagement in treatment and make services easily accessible and readily available.<sup>37</sup> For more information on these medications and recommendations on how to reduce barriers to access, see SAMHSA's *Medication-Assisted Treatment of Opioid Use Disorder Pocket Guide* and SAMHSA's *Advisory: Low Barrier Models of Care for Substance Use Disorders* in the resources section. To identify treatment providers in your area, visit SAMHSA's [Find Treatment](#) locator or call SAMHSA's National Helpline (1-800-662-HELP [4327]) or (1-800-487-4899 TDD) or text HELP4U (435748) for 24/7 free and confidential treatment and referral in English and Spanish.

### LEGAL AND LIABILITY CONSIDERATIONS

Health care professionals who are concerned about legal risks associated with OORM prescribing may be reassured that prescribing an OORM to manage opioid overdose is consistent with FDA-approved indications, resulting in no increased liability, as long as the prescriber adheres to general rules of professional conduct. Most state laws and regulations now permit practitioners to prescribe naloxone to a third party, such as a caregiver.<sup>14</sup> More information on state policies is available from the Prescription Drug Abuse Policy System's [Naloxone Overdose Prevention Laws](#) website or from individual state medical boards. For more information visit [www.opioidprescribing.org](http://www.opioidprescribing.org).

## APPENDIX 4: FIRST RESPONDERS

EMS providers and other first responders such as firefighters are often first on the scene of an overdose. They can create a calm environment for someone who survives an overdose. Moreover, they are critical partners in public health programs that improve patient outcomes and reduce opioid overdose rates. EMS providers and other first responders can partner with communities and harm reduction agencies to respond to community needs in multiple ways. They are critical interagency collaborators—linking data to public health action and implementing lifesaving public health interventions that bolster community-based overdose prevention efforts and serve as a connector to health services.

### CARE FOR SOMEONE AFTER AN OVERDOSE

EMS providers can create a supportive environment for the person surviving an overdose, as well as their friends and family. This may include clearing the room of any law enforcement personnel, speaking in a calm tone, and avoiding use of any and all restraints. However, although EMS is a critical part of a system of care that can overall reduce opioid use and overdose, they are often underused as part of a comprehensive strategy to prevent overdoses.<sup>38,39</sup>

### LINKAGE TO A PEER RECOVERY SPECIALIST<sup>40</sup>

EMS is uniquely positioned to offer life-saving resources to people after they overdose. One of those resources is ongoing engagement by someone who serves as a peer recovery specialist—a person with lived experience that allows them to guide someone else through the system of care. Most behavioral health agencies, health departments, and medical services have hired or are partnering with peer recovery specialists. EMS personnel can refer a patient to a peer recovery specialist or invite them onsite to follow up after the overdose event.

### NALOXONE LEAVE BEHIND<sup>51</sup>

Some EMS providers leave a naloxone kit behind with the survivor. Evaluations of Naloxone Leave Behind programs show they are feasible, do not require significant effort, and can have a positive impact on community-wide naloxone distribution. Receiving a naloxone kit increased the odds a person who survives an overdose will engage a peer recovery specialist, demonstrating the importance of naloxone distribution as a connector for multiple prevention approaches.

### BUPRENORPHINE INDUCTION<sup>41</sup>

This emerging practice involves EMS providers, with a doctor's oversight, administering buprenorphine after OORM administration. This creates a “softer landing” for people waking up from an overdose and has shown promise for encouraging treatment uptake in the short term. The patient is then linked to ongoing care with buprenorphine used as a treatment for OUD.

### DATA SHARING AND COLLABORATION<sup>42</sup>

Data are important for understanding where and when overdoses happen. EMS data are geographically indexed and can be accessed within a short period of time. As EMS personnel are most often the first professional responders on the scene of an overdose, EMS data can inform a public health response.<sup>43</sup> EMS data also reflect nonfatal overdose events that may be missed by other health data because people may refuse transport to a hospital (i.e., they are treated in the field and then released).

These data are incredibly useful to public health and behavioral health because they provide a more complete picture of who may not be reached in other ways with overdose prevention resources. Studies show nearly one-third of overdose decedents interacted with EMS in the year prior to their death.<sup>44</sup> Beyond data sharing, EMS personnel provide an important voice in coalitions or workgroups that collaborate to address substance use and overdose in a community.

For more information, see: <https://www.astho.org/globalassets/report/innovations-in-overdose-response.pdf>., <https://www.ems.gov/resources/search/?category=opioid-epidemic>, and Connecting Communities to Substance Use Services: Practical Tools for First Responders <https://www.samhsa.gov/resource/ebp/connecting-communities-substance-use-services-practical-tools-for-first-responders>

This section of the Toolkit outlines a public health approach to preventing overdose. This approach involves widespread education about overdose risk, making OORM such as naloxone as accessible as possible, and increasing awareness among healthcare providers.<sup>14</sup>

A foundation for any effective and sustainable public health intervention is community engagement, or coalition building. Genuine engagement seeks to bring together the skills, knowledge, and experiences of the community to create solutions that work for all its members. It aims to ensure that people who are most affected by challenges and inequities have a voice in creating and implementing solutions to accelerate change. For those working to end the opioid overdose crisis, this means working with community members who are most affected by the crisis, including, but not limited to, people who use drugs, people with lived experience, service providers, law enforcement, and EMS personnel.<sup>45</sup>

Strategies should be informed by community engagement and also selected based on the strength of their evidence-base. Evidence-based practices are interventions that are guided by the best research evidence with practice-based expertise, cultural competence, and the values of the persons receiving the services that promote individual-level or population-level outcomes. Some evidence-based and promising strategies to reduce overdose death include:

## TARGETED OORM DISTRIBUTION

People who use drugs are most likely to witness and respond to an overdose with an OORM, preventing overdose death. The most effective OORM distribution strategies at a population-level prioritize people who use drugs and their loved ones. This can often be done through syringe service programs that are recommended as critical access points for communities with high opioid overdose mortality rates and low reach of other organizations.<sup>46</sup> Harm reduction programs, whether they are syringe service programs or not, engage people who use drugs in a nonjudgmental manner and provide direct access to needed care.

In addition, communities should consider other high-risk settings where targeted distribution of OORM can be beneficial. This can include at release from criminal justice settings, other institutional settings such as substance use treatment facilities, and schools given recent increases in overdose deaths among youth and young adults.

## DRUG CHECKING

Drug checking services analyze drug samples to provide information on the contents that can help a person determine how or whether to use the drugs they have obtained. Harm reduction providers may offer drug checking services anonymously, including at mobile sites during events, and often provide test strips distributed for individual use. Drug checking can be used to detect the presence of unexpected substances, such as fentanyl and xylazine, and growing evidence suggests drug checking can change behavioral intention.<sup>47</sup> When aggregated, data from drug checking provides important information to the public about the illicit drug supply that may inform policy and public health efforts.<sup>48</sup>

## PUBLIC COMMUNICATION CAMPAIGNS

Public communication campaigns about overdose using social media, radio, TV, public service announcements, billboards, and bus advertising should be rooted in positive public health messaging. Fear-based campaigns are not effective.<sup>49</sup> Inform the public of trends in overdose fatalities and share information on changes in the drug market that can increase overdose risk. Incorporating information from drug checking activities in your community can help people know what opioids and other drugs are in the local illicit drug supply. Ensure there is constant education on naloxone and other OORMs, including what it is and where to obtain it. This is an action step that should be incorporated into every overdose awareness campaign.

## GOOD SAMARITAN LAWS

Evaluate your state's Good Samaritan laws,<sup>50</sup> and consider whether changes may be necessary. Incorporate "know your rights" information into overdose prevention campaigns and educational materials so the public is aware that they will not be held liable for a good faith attempt to save someone's life. Increase awareness that it is critical to call 911 when someone may be experiencing an unrelated medical emergency or needs additional medical support for an overdose.

# APPENDIX 5: POLICY & SYSTEMS CONSIDERATIONS

## RESOURCES

SAMHSA has developed more in-depth resources to guide community-driven, evidence-based overdose prevention and response strategic planning and implementation:

For more information about coalition building to address overdose in your community, see SAMHSA's Engaging Community Coalitions to Decrease Opioid Overdose Deaths Practice Guide:

<https://www.samhsa.gov/resource/ebp/engaging-community-coalitions-decrease-opioid-overdose-deaths-practice-guide-2023>

For guidance on evidence based practices, see SAMHSA's Opioid Overdose Reduction Continuum of Care Approach Practice Guide: <https://www.samhsa.gov/resource/ebp/opioid-overdose-reduction-continuum-care-approach-orcca-practice-guide-2023>

## PREVENT & PROTECT

Compiled by prescribers, pharmacists, public health workers, lawyers, and researchers working on overdose prevention and naloxone access, this nongovernmental site provides health care providers with resources to educate patients on how to reduce overdose risk and provide naloxone rescue kits to patients: <https://prevent-protect.org/>

## NATIONAL HARM REDUCTION COALITION

Resources for evidence-based harm reduction strategies created with and for people who use drugs: <https://harmreduction.org/>

## NEXT DISTRO

Online and mail-based harm reduction service for access to naloxone and other harm reduction supplies and collaborate with others in your community: <https://nextdistro.org/>

## REMEDY ALLIANCE FOR THE PEOPLE

Naloxone buyer's club created to increase access and distribution of injectable naloxone for programs: <https://remedyallianceftp.org/>

## SAMHSA

988 Suicide & Crisis Lifeline: 988 or <https://988lifeline.org/>

SAMHSA's National Helpline: 1-800-662-HELP (4357) or 1-800-487-4889 (TDD, for hearing impaired) or send a text to [435748](https://www.samhsa.gov/find-help) (HELP4U) for 24/7, 365-day-a-year, free and confidential treatment referral in English and Spanish <https://www.samhsa.gov/find-help>

FindTreatment: <https://findtreatment.gov/>

Single State Agencies for Substance Abuse Services: <https://www.samhsa.gov/sites/default/files/ssa-directory.pdf>

State Opioid Treatment Authorities: <https://www.samhsa.gov/medications-substance-use-disorders/sota>

SAMHSA Harm Reduction Framework: <https://www.samhsa.gov/find-help/harm-reduction/framework>

SAMHSA Advisory on Low Barrier Models of Care for Substance Use Disorders: Substance Abuse and Mental Health Services Administration. Low Barrier Models of Care for Substance Use Disorders. Advisory. Publication No. PEP23-02-00-005. Rockville, MD: Substance Abuse and Mental Health Services Administration, 2023. <https://store.samhsa.gov/product/advisory-low-barrier-models-care-substance-use-disorders/pep23-02-00-005>

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## CENTERS FOR DISEASE CONTROL AND PREVENTION

Understanding the Epidemic: <https://www.cdc.gov/drugoverdose/epidemic>

Clinical Practice Guideline for Prescribing Opioids for Pain: <https://www.cdc.gov/mmwr/volumes/71/rr/rr7103a1.htm>

## APPENDIX 5: POLICY & SYSTEMS CONSIDERATIONS

Public Health and Safety Toolkit (PHAST): <https://www.cdc.gov/drugoverdose/pdf/phast-toolkit-508.pdf>

Addiction Medicine Toolkit: <https://www.cdc.gov/opioids/addiction-medicine/index.html>

Association of State and Territorial Health Officials: <https://www.astho.org/>

Preventing Opioid Misuse in the States and Territories: <http://my.astho.org/opioids/home>

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