

NALOXONE TYPES

SUPPLIED BY UMSL-MIMH ADDICTION SCIENCE



4 mg Nasal Naloxone

Narcan is the nasal naloxone spray most commonly recognized. While 4 mg is the original prescription strength dosage, when naloxone became available over-the-counter in 2024, many 4 mg generics entered the market such as Padagis and Teva (shown here). UMSL-MIMH supplies Narcan, Padagis, and Teva 4 mg nasal naloxone sprays.

3 mg Nasal Naloxone

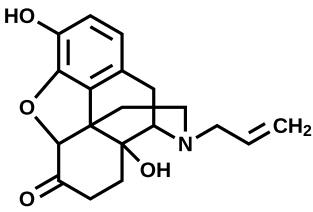
RiVive 3 mg nasal naloxone spray is a compassionate dose naloxone product. RiVive is strong enough to save lives with the lowest dose of over-the-counter nasal naloxone available in the United States, and it reduces the risk of precipitated withdrawal. It's also manufactured by the only 501(c)(3) non-profit pharmaceutical company that manufactures naloxone and is available through UMSL-MIMH.



Intramuscular (IM) Naloxone

The vials of injectable naloxone UMSL-MIMH supplies are 0.4mg/1ml, which means there is 0.4mg of naloxone suspended in 1ml of fluid. This is 1/10th the amount of naloxone in Narcan and generics by Padagis and Teva which contain 4 mgs of Naloxone in 0.1ml of fluid. IM naloxone is also considered a compassionate dose naloxone product and is often preferred by people who use drugs because of its ability to be titrated.





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TYPE & DOSAGE

IM NALOXONE 0.4MG/1ML



BENEFITS

- Lowest dose needed
- Least withdrawal symptoms
- Ability to titrate doses
- Often preferred by people who use drugs
- Higher bioavailability than nasal naloxone
- Adaptable kits (as many doses as requested)
- Inexpensive
- Preparing injection creates natural pause between dosing, decreasing the chance of excessive administration of naloxone
- Available through ethical low-barrier, harm reduction-informed distribution source
- Underscores need for safe disposal of syringes

CHALLENGES

- IM kits require multiple components and assembly
- Stigma and paraphernalia laws can make carrying injectable medication riskier for people who use drugs
- Requires more training for individuals new to IM naloxone vs nasal
- Provider bias and misinformation re: injectable form of naloxone
- Vials are glass and can be subject to breakage
- Lack of access to safe disposal of syringes
- Can feel clinical or medical and be intimidating to laypersons

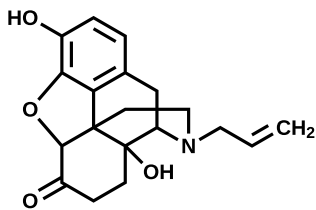
3 MG NASAL NALOXONE



- Pre-packaged and labeled kits
- No assembly required
- Easy to use with little instruction
- Compassionate dose
- Less of a chance of causing problematic, precipitated withdrawal that can complicate overdose reversal
- Less stigma than IM naloxone
- Extensive input from harm reductionists including on package design
- Available through ethical low-barrier, harm reduction-informed distribution source

- High cost per 2 dose box
- Cost prohibitive for scaling to saturation
- Participant preference for IM
- Newer nasal naloxone on the market; unfamiliarity
- Cannot titrate, less autonomy
- Opportunity for excessive administration
- Plastic applicator can be subject to breakage or other damage

Naloxone is an over-the-counter medication which can be administered as a nasal spray or by intramuscular injection and is effective in rapidly reversing overdose from both legal and illegal forms of opioids. Naloxone can be administered by first responders such as law enforcement officers and paramedics, or by friends, family or bystanders and is the standard treatment for opioid overdose.



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TYPE & DOSAGE

4 MG NARCAN NASAL NALOXONE



BENEFITS

- Pre-packaged and labeled kits
- No assembly required
- Most commonly recognized
- Easy to use with little instruction
- Less stigma than IM naloxone
- Widely available

CHALLENGES

- High cost per 2 dose box
- Cost prohibitive for scaling to saturation
- Participant preference for IM naloxone
- Participant preference for compassionate dose nasal naloxone spray
- Cannot titrate, less autonomy
- Opportunity for excessive administration
- Plastic applicator can be subject to breakage or other damage

4 MG GENERIC (PADAGIS & TEVA) NASAL NALOXONE



- Pre-packaged and labeled kits
- No assembly required
- Easy to use with little instruction
- Less stigma than IM naloxone
- Widely available

- High cost per 2 dose box
- Cost prohibitive for scaling to saturation
- Participant preference for IM naloxone
- Participant preference for compassionate dose nasal naloxone spray
- Unfamiliarity with generic(s)
- Cannot titrate, less autonomy
- Opportunity for excessive administration
- Plastic applicator can be subject to breakage or other damage

All formulations and potencies of naloxone take 1-3 minutes on average to begin to take effect and any form of naloxone may require a subsequent dose after the first few minutes, depending on the overdose. If you give 4 doses of nasal naloxone spray (16 mgs) in rapid succession during an overdose, it does not make it work any faster than if you give 1 dose of nasal naloxone spray (4mg) or 1 dose of injectable naloxone (0.4mg), wait, perform rescue breathing, and *paramedics, or* administer additional dose(s), if needed after several minutes. *or opioid overdose.*

The ideal dose of naloxone is one that restores breathing without inducing withdrawal.

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