Opioids and Naloxone

SKC In-Service 4/2019

THE OPIOID EPIDEMIC BY THE NUMBERS

2016 and 2017 Data



130+ People died every day from opioid-related drug overdoses³



11.4 m People misused prescription opioids¹



42,249
People died from overdosing on opioids²



2.1 million
People had an opioid use
disorder



886,000 People used heroin¹



81,000
People used heroin
for the first time¹



2 million
People misused prescription
opioids for the first time*



17,087
Deaths attributed to overdosing on commonly prescribed opioids?



15,469 Deaths attributed to overdooing on heroin²



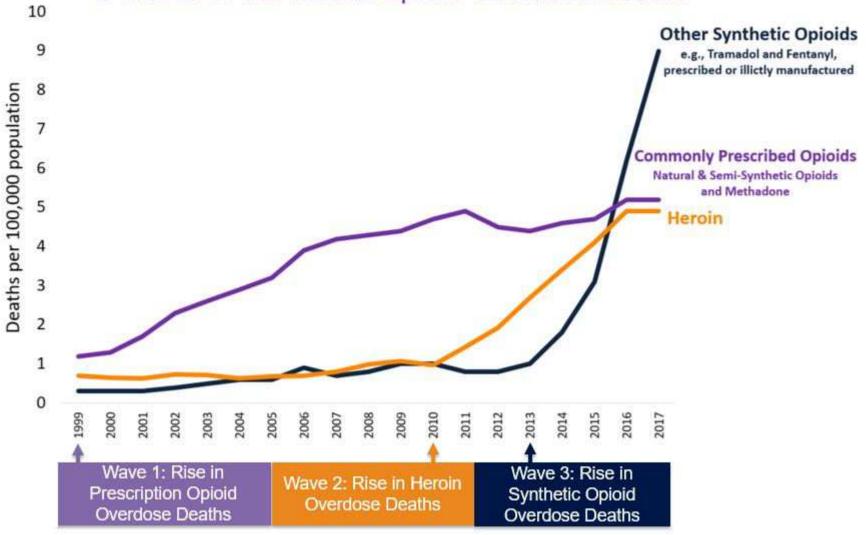
19,413
Deaths attributed to overdosing on synthetic opioids other than methadone?

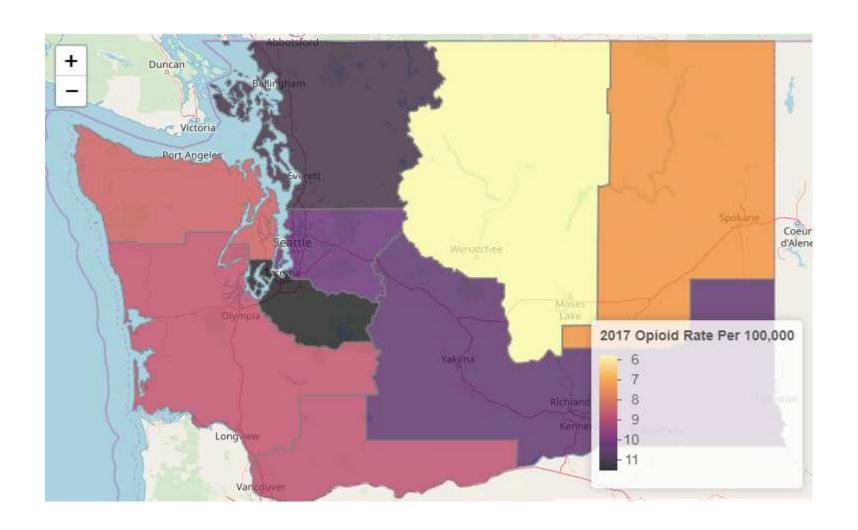
SOURCES

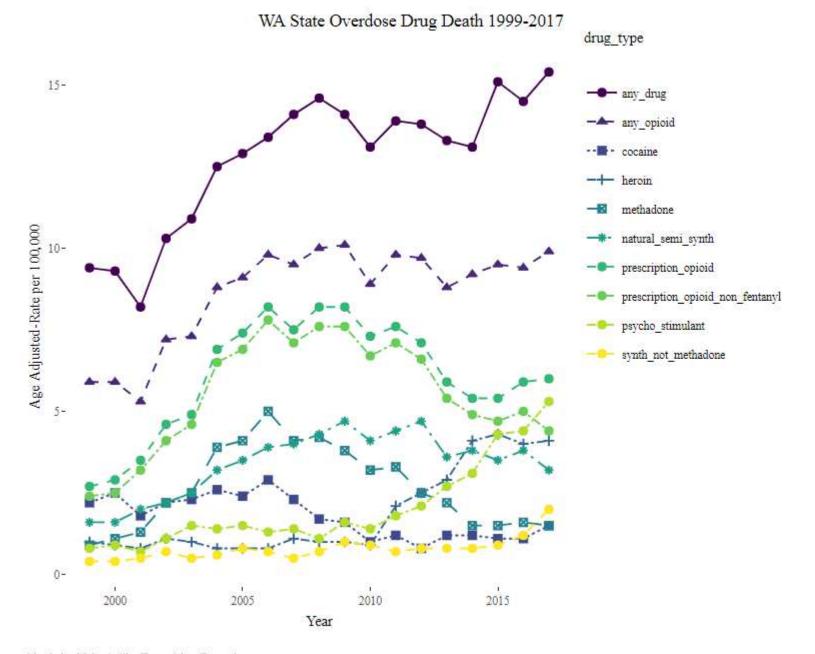
- 2017 National Survey on Drug Use and Health, Mortality in the United States, 2016
- 2. NCHS Data Brief No. 293, December 2017
- NCHS, National Viral Statistics System. Estimates for 2017 and 2018 are based on provisional data.



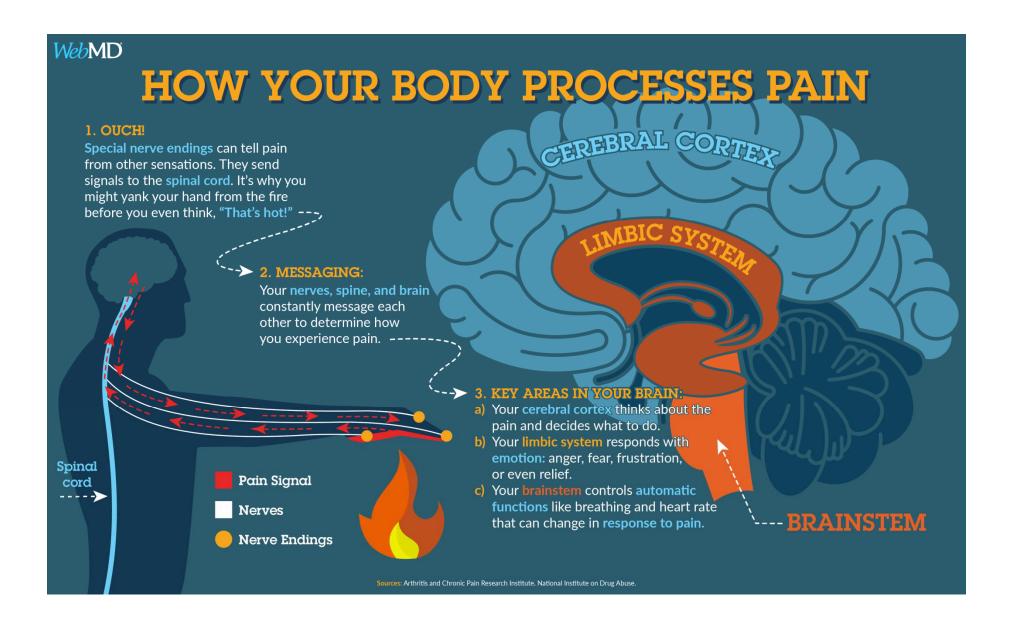








Updated Mortality Trend by Drug type



HOW OPIOIDS BLOCK PAIN

PRESCRIPTION OPIOIDS



They influence the release of chemicals from the "brain's internal reward system" that can calm your emotions and give you a sense of pleasure.



They slow down automatic functions, including breathing and heart rate, which can lower your pain.



They slow or reduce pain signals before they get to the brain, where you feel them.

THEY CAN ALSO MAKE YOU:



Nauseated.



Tired & Sleepy.



Constipated.

TAKEN OVER TIME:



 Tolerance: Your body can get used to them, and you need more.



 Withdrawal: You can get very sick if you suddenly stop taking them.





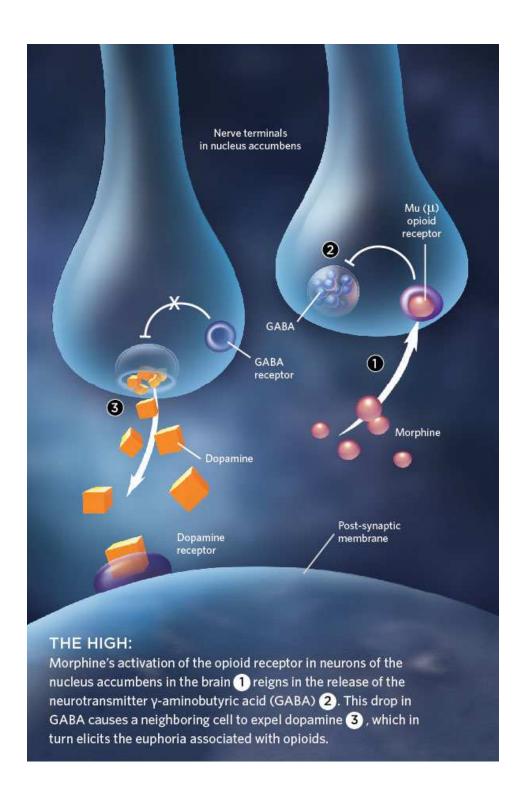


 Misuse: You might take them in a way not prescribed by your doctor.



 Addiction: You might become dependent.

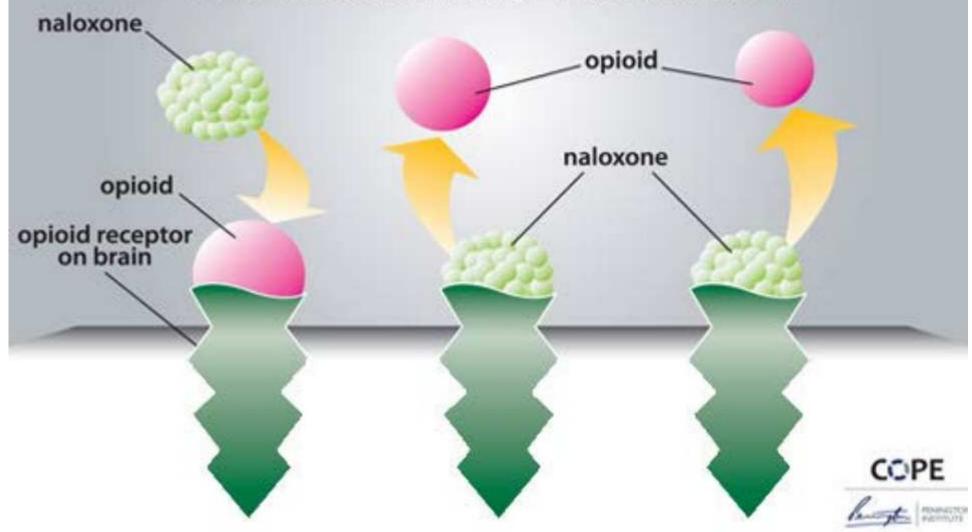
Sources: National Institute on Drug Abuse. National Institute on Drug Abuse for Teachers. University of Utah Health Care.



Naloxone reversing an overdose

Naloxone has a stronger affinity to the opioid receptors than opioids, such as heroin or oxycodone, so it knocks the opioids off the receptors for a short time (30-90 minutes).

This allows the person to breathe again and reverse the overdose.











Narcan Nasal Spray



Signs of Opioid Overdose

- Unresponsive
- Blue/pale skin, lips, nails
- Slow heartbeat
- Slow/irregular breathing, or no breathing at all
 - Choking, gargling, snoring sound, "death rattle"
- GI issues, passed out
- Pinpoint pupils

Signs of an Opioid Overdose



Blue lips or nails



Dizziness and confusion



Can't be woken up



Choking, gurgling or snoring sounds



Slow, weak or no breathing



Drowsiness or difficulty staying awake

Side Effects of Naloxone

Withdrawal symptoms in opioid-dependent individuals:

- Fatigue
- Loss of bowel/bladder function
- Fever, sweating
- Upset stomach/vomiting
- Confusion, disorientation
- Increased heart rate/breathing
- Pain/aches
- Sometimes severe, but still alive

Naloxone Myth vs. Fact

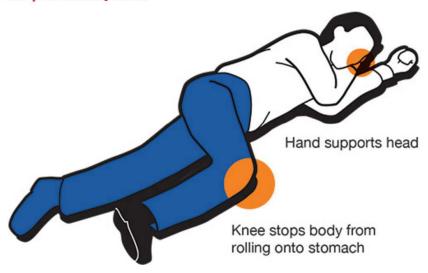
Access to naloxone does not:

- Send the wrong message
- Encourage/increase drug use
- Cause violence
- Prevent people from going to treatment

After Administering Naloxone

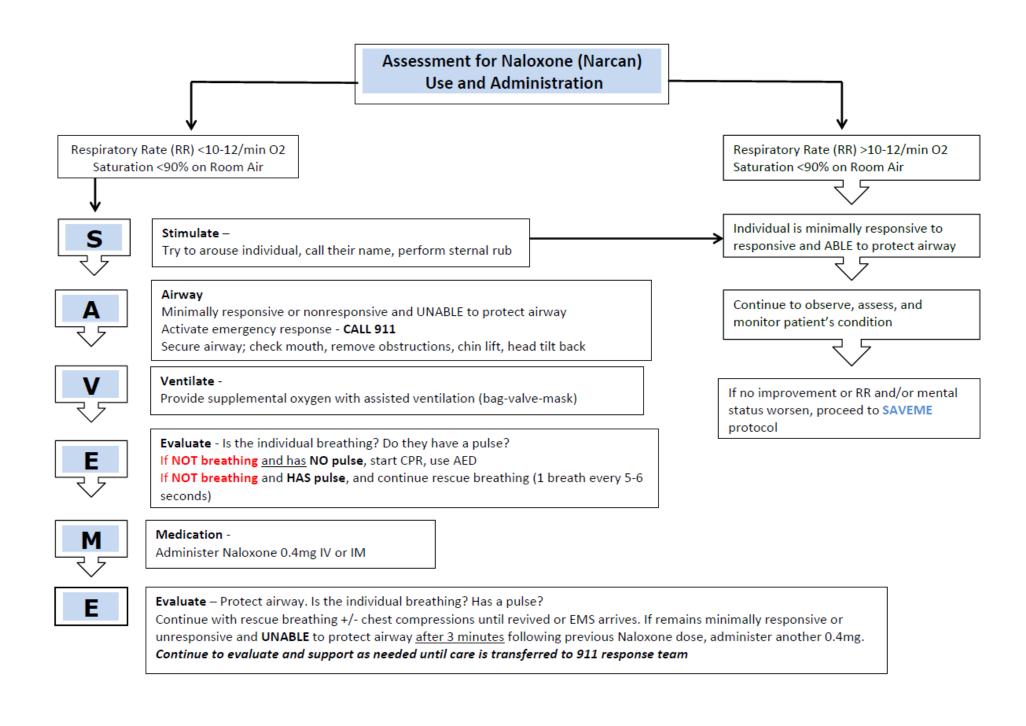
The Recovery Position

Keep the Airway Clear



Stay with person. If you must leave them alone at any point, or if they are unconscious, put them in this position to keep airway clear and prevent choking.

- Depending upon the dose and exposure Naloxone can wear off and patient can develop symptoms again
- Patient needs to be transferred to emergency room for observation.



NKC Procedure

Procedure	Key Points
Determine Need for Narcan	
 Refer to "Assessment for Naloxone Use & Administration" 	
2. Assess patient's condition: * Check Vital Signs * Check O2 saturation * Neuro check	Vital Signs Absence of respirations (apnea) or decreased respiratory rate (RR) (a RR of <10-12/min is the best clinical predictor of opioid intoxication) Oxygen saturation of <90% on room air Slow, erratic or absent heart rate Mental status Patient unresponsive and pupils unreactive (often pinpoint)
Activate Emergency Response if needed & Call 911	Ambu Bag, AED, Back board
4. Check for Order	NKC Standing Order
5. Check for allergies	Naloxone is used to prevent or reverse the effects of opioids including respiratory depression, sedation and hypotension
6. Notify MD	Delegate to another nurse

Procedure		Key Points
		Delegate to another nurse
7. Notify AOC		2.009.00
dminister Naloxone (Na		
8. Perform hand hygie		
Remove cap from vi rubber top with alco		
10. Draw medication from vial	Naloxone is supplied in single dose vial 0.4mg/mL	
		Use 3mL syringe and 20-gauge needle to draw medication
NOTE: For IM administr medication and attach a		e 20-gauge needle after drawing the 1-inch needle.
Steps for IV Admi	nistration of Nal	oxone HCL during treatment
Procedure		Key Points
1. Perform hand hygie	ne and don PPE	
Clamp medication lin drip bulb	ne on venous	
 Attach 3mL syringe Naloxone 0.4mg/mL medication port 		Remove needle (NKC dialysis lines are needleless)
Administer entire an CLAMP line	nount then	Make sure entire dose is administered
5. Attach NS syringe, u		Pushes Narcan into blood stream Flush with 6-8 mLs
6. Monitor patient's res Check VS	sponse	Onset of Narcan administered IV = 2 minutes
7. Determine need for	additional dose	If desired effect is not observed after 3 min, dose can be repeated once (per S.O.)
8. Transfer care to 911	Response Team	
9. Document in EMR.		Documentation includes the dose, route, lot number, expiration date, manufacturer, assessment, pt.'s response to medication, and nurse administering the dose.
10. Document in SAS.		ALL out of ordinary events must be entered in SAS
teps for IM Administrat lood line access readily av		HCL (use 23 gauge, 1 inch needle) – No r off machine)
nstead of administering th n the patient's arm (IM)	e medication in th	ne venous medline (IV) it will be administered

Procedure	Key Points
11. Clean the deltoid muscle site.	
12. Inject the medication.	 IM injection requires 23-gauge, 1 inch needle. 1½" needle may be used for obese patients.
13. Observe for response.	 The onset of action for IM administered Naloxone is slightly less rapid than IV. IM injection of Naloxone HCL produces more prolonged effect than IV administered.
	If desired effect is not observed after 3 min., dose can be repeated once (per S.O.)

14. <u>In the event of an allergic reaction</u>, follow the NKC Standing Orders for drug reactions. Notify the patient's physician. Complete a progress note in the EMR and the online SAS as soon as possible.

POINTS TO EMPHASIZE

- Naloxone Hydrochloride injection is indicated for the complete or partial reversal of opioid depression, including respiratory depression, induced by natural and synthetic opioids including propoxyphene, methadone, and certain mixed agonist-antagonist analgesics: nalbuphine, pentazocine, butorphanol, and cyclazocine. It is also indicated for the diagnosis of suspected or known acute opioid overdose.
- When Narcan is administered intravenously (IV), the onset of action is generally apparent in two minutes; the onset of action is slightly less rapid when it is administered intramuscularly (IM).
- The duration of action is dependent upon the dose and route of administration. IM administration produces more prolonged effect than IV.
- 4. Repeat dose of Narcan is dependent on the amount, type, and route of administration of the opioid being antagonized. Typically, an initial dose of 0.4mg to 2mg is administered. If desired effect is not observed, dose can be repeated every 2 to 3 minutes to reverse opioid effect up to a maximum dose of 10mg.
- Rescue breathing and CPR are extremely important and can be the key in saving a person's life.