





Athletic Trainers Response to the Opioid Crisis

A Comprehensive 360-Degree Approach

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Learning Objectives

- Participants will be able to...
 - define & describe the current epidemiology related to the opioid crisis.
 - identify and discuss signs and symptoms of opioid abuse.
 - identify and discuss emergent treatment options for opioid overdose.
 - identify and discuss strategies for prevention of opioid abuse.
 - identify and discuss strategies for comprehensive management of opioid abuse.
 - identify and discuss possible alternative therapies to opioid use.



In the late 1990s, pharmaceutical companies **REASSURED** the medical community that patients would **NOT** become **ADDICTED** to opioid pain relievers.



United States, Department of Health and Human Services. What is the U.S. Opioid Epidemic? Retrieved from https://www.hhs.gov/opioids/about-the-epidemic/index.html.



Fast forward, 30 years...

increased prescription of opioid medications led to widespread **misuse** and **abuse** of both *prescription* and *nonprescription* opioids...

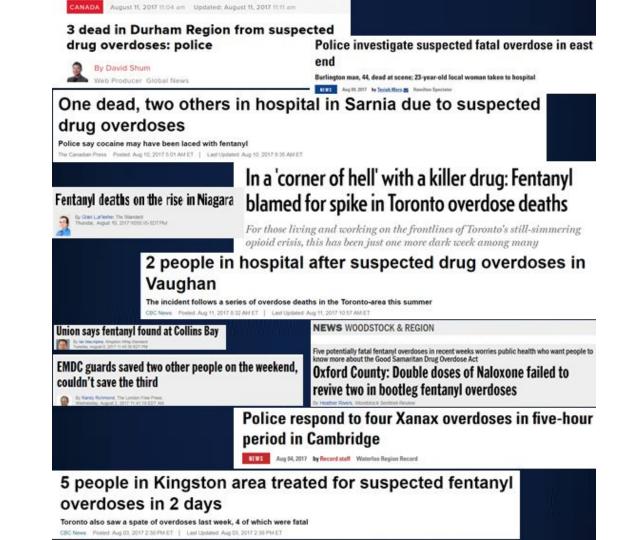


United States, Department of Health and Human Services. What is the U.S. Opioid Epidemic? Retrieved from https://www.hhs.gov/opioids/about-the-epidemic/index.html.



United States, Department of Health and Human Services. What is the U.S. Opioid Epidemic? Retrieved from https://www.hhs.gov/opioids/about-the-epidemic/index.html.



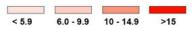


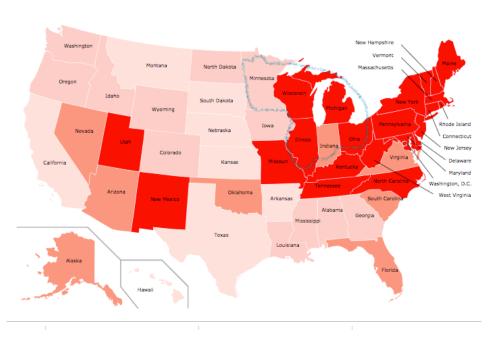
S SPORTS	WOMEN	MEN'S SPORTS	
	Basketball		Baseball
	Field Hockey		Basketball
	Golf		Football
17.7	Gymnastics		Golf
	Ice Hockey		Ice Hockey
	Lacrosse	16.7%	Lacrosse
	Rowing		Soccer
	Softball		Swimming and Diving
	Soccer		Tennis
	Swimming and Diving	the second se	Track/Cross Country
	Tennis		Wrestling
	Track/Cross Country	5 10 15%	0
	Volleyball	TYT	100

College athletes who used narcotic pain medication in the past year

Revised February 2018

Opioid-Related Overdose Death Rates (per 100,000 people)¹





National Institute of Drug Abuse. Opioid Summaries by State. Retrieved from https://www.drugabuse.gov/drugs-abuse/opioids/opioid-summaries-by-state

IN 2017 HHS DECLARED THE OPIOID CRISIS A PUBLIC HEALTH EMERGENCY...

"...IS ANOTHER POWERFUL ACTION THE TRUMP ADMINISTRATION IS TAKING IN RESPONSE TO AMERICA'S DEADLY OPIOID CRISIS, PRESIDENT TRUMP HAS MADE THIS NATIONAL CRISI

""

United States, Department of Health and Human Services. HHS Acting Secretary Declares Public Health Emergency to Address National Opioid Crisis. Retrieved from https://www.hhs.gov/about/news/2017/10/26/hhs-acting-secretary-declares-public-health-emergency-address-national-opioid-crisis.html

5-Point Strategy To Combat the Opioid Crisis

- Strategies HHS will bring to the fight...
 - 1. Strengthening our understanding of the epidemic through better public health surveillance
 - 2. Improving access to treatment and recovery services
 - 3. Promoting use of overdose-reversing drugs
 - 4. Providing support for cutting edge research on pain and addiction
 - 5. Advancing better practices for pain management

Price TE. Secretary Price Announces HHS Strategy for Fighting Opioid Crisis. National Rx Drug Abuse and Heroin Summit, Atlanta, GA. Retrieved from https://www.hhs.gov/about/leadership/secretary/speeches/2017-speeches/secretary-price-announces-hhs-strategy-for-fighting-opioid-crisis/index.html

What are opioids?

- Class of drugs that are...
 - ...naturally found in the opium poppy plant or produced synthetically.
 - ... subdivided on the basis of major therapeutic uses
 - eg, analgesics, antitussives, and antidiarrheal drugs.
 - ..produces a feeling of euphoria.
 - Dangerous as they are HIGHLY addictive, and overdoses and death are common.

National Institute of Drug Abuse. What are prescription opioids? Retrieved from https://www.drugabuse.gov/publications/drugfacts/prescription-opioids, Updated 2018

How are opioids classified?

Opioid peptides (**endogenous**) released from n. endings modulate transmission in the brain and spinal cord and in primary afferents via their interaction with specific receptors.

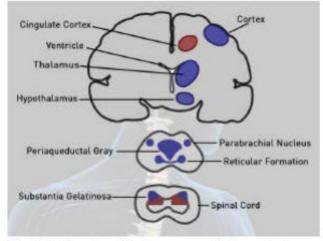
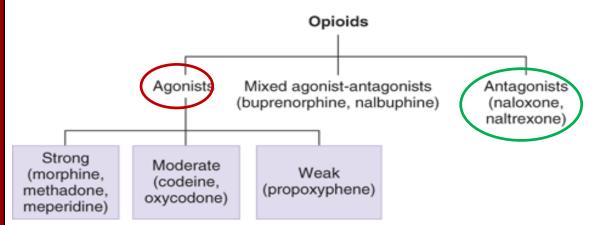


Fig. 1: Major sites of endogenous opioid production and opioid receptors.

How are opioids classified?

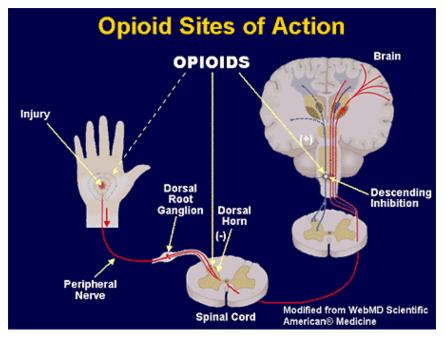
Synthetic opioids function are based on their interaction with opioid receptors; classified as...



Source: A.J. Trevor, B.G. Katzung, M. Kruidering-Hall: Katzung & Trevor's Pharmacology: Examination & Board Review, 11th Ed. www.accesspharmacy.com Conviriant © McGraw-Hill Education All rights reserved

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Opioids bind to and activate receptors in the brain, triggering the release of dopamine (neurotransmitter linked with learning, pleasure, and reward) and other neurotransmitters.



Euphoric effect are enlarged by involvement of GABA-inhibitory neurons of the ventral tegmental area influencing the increase of dopamine release.

Increased amount of dopamine (neurotransmitter linked with learning, pleasure, and reward) offers feelings of pleasure and euphoria,

constitutes probably a mechanism responsible for taking drugs and addiction.

Mode of action Effects located in the Central Nervous System Specific receptors in the brain for different narcotics lead to different side effects Action on: vesicle narcotics Blocking specific receptors

Müller-Esterl: Biochemie: 2004 Spektrum Akademischer Verlag, Heidelberg

µ-receptor (Endorphins) Euphoria

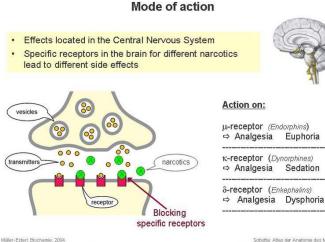
κ-receptor (Dynorphines) Sedation

δ-receptor (Enkephalins) ⇒ Analgesia Dysphoria

> Sobotta: Atlas der Anatomie des Menscher CElsevier OmbH, Urban & Fischer Verlag München

Enkephalins bind to δ receptors with an algesic effects.

Dynorphins, acting mainly through kreceptors, trigger a dysphoria.



Spektrum Akademischer Verlag, Heidelberg

Sohofter Atlas der Anatomie des Menschen @Elsevier GmbH, Urban & Fischer Verlag München

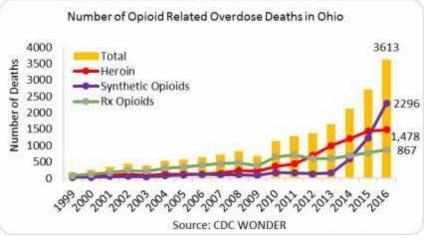
Euphoria

Users require an opioid to continuously occupy the opioid receptor in the brain, or they develop withdrawal symptoms and thus seek out more drugs.



1-in-10 Americans knows someone who has died from an opioid overdose.

National Institute of Drug Abuse. Opioid Summaries by State https://www.drugabuse.gov/drugs-abuse/opioids/opioid-summaries-by-state/ohio-opioidsummary

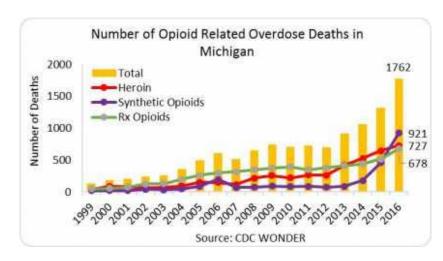


#3 in US for Opioid-Related Deaths @ 32.9 per 100,000

National Safety Council (2017, Nov. 8). 1 in 4 Americans directly impacted by opioid misuse. Retrieved from National Safety Council at nsc.org/Connect/ NSCNewsReleases

More than 63,600 families lost loved ones to a drug overdose in 2016.

National Institute of Drug Abuse. Opioid Summaries by State https://www.drugabuse.gov/drugs-abuse/opioids/opioid-summaries-by-state/ohio-opioidsummary

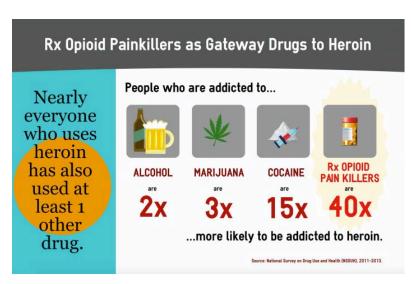


Kochanek, K., Murphy, S., Xu, J., and Arias, E. (2017, Dec. 22). Mortality in the United States, 2016, NCHS Data Brief No. 293. Retrieved from cdc.gov/nchs/products/databriefs/db293.htm

#11 in US for Opioid-Related Deaths @ 18.5 per 100,000

Eleven million Americans **misused** an opioid pain reliever in the past year.

More than 2.1 million people **suffer** from an opioid use disorder.



Opioids by the Numbers Adolescents (12 to 17 years old)

In 2015, 276,000 adolescents were current nonmedical users of pain reliever, with 122,000 having an addiction to prescription pain relievers.

In 2015, an estimated 21,000 adolescents had used heroin in the past year, and an estimated 5,000 were current heroin users.

Center for Behavioral Health Statistics and Quality. (2016). Key substance use and mental health indicators in the United States: Results from the 2015 National Survey on Drug Use and Health (HHS Publication No. SMA 16-4984, NSDUH Series H-51). Retrieved from http://www.samhsa.gov/data/.

Opioids by the Numbers Adolescents (12 to 17 years old)

People often share their unused pain relievers, unaware of the dangers of nonmedical opioid use. Most adolescents who misuse prescription pain relievers are given them for free by a friend or relative.

National Institute of Drug Abuse. (2015). Drug Facts: Prescription and Over-the-Counter Medications. Bethesda, MD: National Institute of Drug Abuse. Available at http://www.drugabuse.gov/publications/drugfacts/prescription-over-counter-medications.

The prescribing rates for prescription opioids among adolescents and young adults nearly doubled from 1994 to 2007.

Fortuna RJ, Robbins BW, Caiola E, Joynt M, Halterman JS. Prescribing of controlled medications to adolescents and young adults in the United States. Pediatrics. 2010;126(6):1108-1116.

Opioids such as Vicodin (hydrocodone), OxyContin (oxycodone), heroin and fentanyl accounted for 42,000 deaths in 2016.

U.S. lifespan estimates **declined** for the second year (2016) in a row, primarily due to deaths from drug overdose.

Seven in 10 companies report being directly impacted by prescription drug misuse.

Kochanek, K., Murphy, S., Xu, J., and Arias, E. (2017, Dec. 22). Mortality in the United States, 2016, NCHS Data Brief No. 293. Retrieved from cdc.gov/nchs/products/databriefs/db293.htm National Safety Council (2017, Nov. 8). 1 in 4 Americans directly impacted by opioid misuse. Retrieved from National Safety Council at nsc.org/Connect/ NSCNewsReleases

How does this compare to other issues...

 63,632 people died from drug overdose in 2016; of those, over 42,000 deaths were from opioids (Hedegaard, Warner, & Miniño, 2017)

- 47,000 American soldiers died in battle in the Vietnam War 1964–1975 (U.S. Department of Veterans Affairs, 2017)
- 351,602 Americans have died from opioid overdose since 1999 (National Center for Health Statistics, 2016)
- 291,000 American soldiers died in battle in World War II 1941–1945 (U.S. Department of Veterans Affairs, 2017)
- 50,000 Americans died from HIV in 1995, the peak year for HIV deaths: HIV was the number one cause of death for Americans age 25 to 44 (CDC, February 28, 1997)

State-by-State Progress on Strengthening Laws And Regulations

- Multiple key actions will be needed to end this drug epidemic and reduce the loss of life.
- Six key actions every state should take to save lives are:
 - Mandating prescriber education
 - Implementing opioid prescribing guidelines
 - Integrating prescription drug monitoring programs (PDMPs) into clinical settings
 - Improving data collection and sharing
 - Treating opioid overdose
 - Increasing availability of opioid use disorder treatment

BY THE NUMBERS

2000 -

61.8 opioid prescriptions written per 100 Americans

180 MME¹ prescribed per capita

2,917 prescription opioid deaths 1,842 heroin deaths

-• 2010

81.2 opioid prescriptions written per 100 Americans

782 MME prescribed per capita

10,943 prescription opioid deaths

3,036 heroin deaths

3,007 synthetic opioid² deaths

2012-2016 -

States begin passing laws to require prescriber education, close pill mills, define prescribing guidelines, start and enhance prescription drug monitoring programs, and increase access to opioid overdose reversal medications and treatment.

National Safety Council. Prescription Nation 2018: Facing America's Opioid Epidemic. 2018.

- 2016

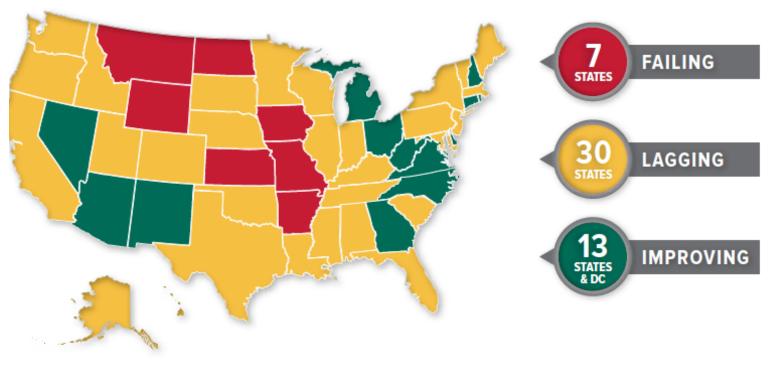
66.5 opioid prescriptions written per 100 Americans

61 million Americans, 19 percent of the population, received one or more prescriptions, with the average patient receiving 3.5 prescriptions

14,487 prescription opioid deaths

15,469 heroin deaths

19,413 synthetic opioid³ deaths



FAILING		LAGGING		NG IMPROVING	
MEETS 1 INDICATOR	MEETS 2 INDICATORS	MEETS 3 INDICATORS	MEETS 4 INDICATORS	MEETS 5 INDICATORS	MEETS 6 INDICATORS
мо	AR, IA, KS, MT, ND, WY	HI, ID, IL, IN, MA, MN, MS, NE, NJ, NY, OR, SD, WA	AL, AK, CA, CO, FL, KY, LA, ME, MD, OK, PA, SC, TN, TX, UT, VT, WI	AZ, CT, DE, DC, GA, MI, NH, NC, OH, VA, WV	NV, NM, RI

Risk of Addiction is Serious and Widespread

After as few as five days of opioid pain reliever use, 1-in-5 users runs the risk of becoming dependent and continuing to use opioids 1 yr later.

A refill or a 2nd opioid prescription doubles the risk of opioid dependence.

Shah, A., Hayes, C., and Martin, B. (2017, March17). Characteristics of Initial Prescription Episodes and Likelihood of Long-Term Opioid Use — United States, 2006–2015. Retrieved Feb. 6, 2018, from cdc.gov/mmwr/volumes/66/wr/mm6610a1.htm

Risk of Addiction is Serious and Widespread

- NSC (2017) public opinion poll found nearly 84% of opioid users were NOT worried about addiction, even though 64% of respondents reported having a personal or family history of addiction risk factors.
- 53% of identified a personal (lifestyle) risk factor of addiction.
- 1/3 of Americans surveyed did not even realize a medication they had taken was an opioid.



Risk of Addiction is Serious and Widespread

RISK FACTORS FOR OPIOID ADDICTION

(SAMHSA Center for the Application of Prevention Technologies, 2018)

- Having depression, anxiety or other mental health illness
- ✓ A personal and/or family history of alcohol or substance misuse
- A history of physical, mental or sexual abuse
- ✓ Long-term use of opioid pain medications

What are the signs of an opioid addiction?

- People addicted to drugs may change their behavior...
 - Mixing with different groups of people or changing friends
 - Spending time alone and avoiding time with family and friends
 - Losing interest in activities
 - Not bathing, changing clothes or brushing their teeth
 - Being very tired and sad
 - Eating more or less than usual
 - Being overly energetic, talking fast and saying things that don't make sense
 - Being nervous or cranky

American Society of Anesthesiologists. Opioid Abuse. Retrieved from https://www.asahq.org/whensecondscount/pain-management/opioid-treatment/opioid-abuse/

What are the signs of an opioid addiction?

- People addicted to drugs may change their behavior...
 - Quickly changing moods
 - Sleeping at odd hours
 - Missing important appointments
 - Getting into trouble with the law
 - Attending work or school on an erratic schedule
 - Experiencing financial hardship

American Society of Anesthesiologists. Opioid Abuse. Retrieved from https://www.asahq.org/whensecondscount/pain-management/opioid-treatment/opioid-abuse/

What are the signs of opioid abuse?

Behavioral Symptoms

- Opioids are used for longer or at a greater amount than intended
- Unsuccessful attempts to decrease the amount taken
- Large amount of time spent obtaining, using, or recovering from the drug
- Abandonment of important activities

Physical Symptoms

- Improved alertness
- Increased sensitivity to sensory stimuli
- Constricted blood vessels
- Increased heart rate
- High blood pressure
- Increased energy
- Decreased appetite
- Increased sexual arousal
- Physical agitation
- Difficulty sleeping
- Over arousal and hyper-vigilance

What are the signs of an opioid overdose?

- Signs of OVERDOSE, which often results in death if not treated, include:
 - Extreme sleepiness, stupor
 - Inability to awaken verbally or upon sternal rub.
 - Breathing problems ranging from hypopnea or apnea
 - Fingernails or lips turning blue/purple.
 - Slow heartbeat and/or low blood pressure.

What are the signs of an opioid overdose?

- Physical exam
 - Extremely small "pinpoint" pupils; miosis and reactivity
 - Degree of respiratory effort
 - Expose entire body looking for Fentanyl patches

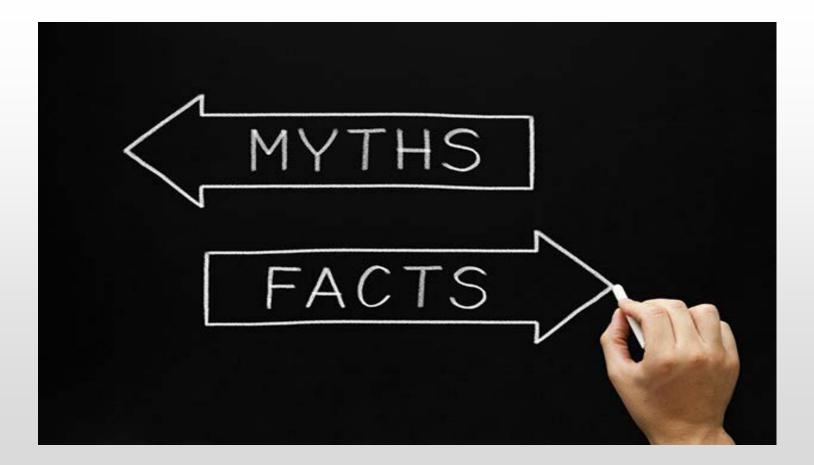
Emergency Response & Management for Opioid Overdose

Take

C.T.I.O.N

"You are not studying or practicing to pass the exam ...

You are studying / practicing for the day when you are the only thing between the patient and the grave"

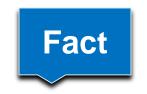






There is very little you can do when a person is having an opioid overdose since s/he could die instantaneously Death from overdose is rarely instantaneous. There is enough time to prevent an overdose





It is really hard to prevent a person from dying of an opioid overdose since people usually use drugs in private. The majority of overdoses occur in the presence of others.





Preventing death from an overdose is not easy. You have to complete a lengthy, difficult training. Overdose can be reversed by rescue breathing/CPR and by giving the person a medication called naloxone, which is easy to administer.



It is a waste of time to give out naloxone since many are not capable of recognizing and managing an overdose with naloxone.



From 1996 to June 2014, >152,000 community persons have been trained with >26,400 overdose reversals reported with naloxone.

(Wheeler et al., CDC MMWR, 2015)



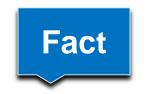
The person who receives naloxone will react violently when the medication is administered and his/her overdose is reversed.



In the past, some people have witnessed violent reactions to naloxone because of sudden withdrawal symptoms; however, the doses of naloxone are now more regulated by protocols.



• Using naloxone will delay entry into drug treatment and encourage riskier drug use.



Studies show reduction in drug use

Naloxone does not enable – it only enables OD victim to breathe.

Dead people don't recover.

- Arouse the Person
 - Shake
 - Shout
 - Sternal Rub



- Check for signs of opioid overdose
- Telephone 911

- Intranasal / Intramuscular Naloxone (Narcan)
 - Safely used by medical professionals since 1971
 - Opioid antagonist



- Opioid antagonist
 - Binds to opioid receptors, but DOESN'T activate receptors
 - Blocks the receptor and prevents the body from experiencing the effects of opioid
 - Allows complete or partial reversal of CNS depressive effects, especially respiratory depression, caused by natural or synthetic opioids and partial agonist/antagonist opioids.



Administering Naloxone



Remove NARCAN Nasal Spray from the box. Peel back the tab with the circle to open the NARCAN Nasal Spray.



Hold the NARCAN nasal spray with your thumb on the bottom of the plunger and your first and middle fingers on either side of the nozzle.

Gently insert the tip of the nozzle into either nostril.

 Tilt the person's head back and provide support under the neck with your hand. Gently insert the tip of the nozzle into one nostril, until your fingers on either side of the nozzle are against the bottom of the person's nose.

Press the plunger firmly to give the dose of NARCAN Nasal Spray. • Remove the NARCAN Nasal Spray from the nostril after giving the dose.



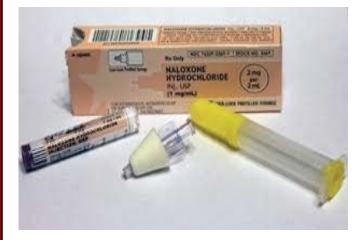


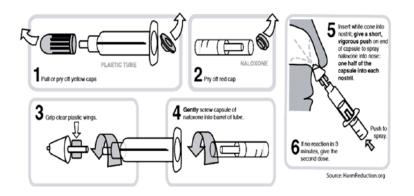
Training Videos https://www.youtube.com/watch?v=hGVSaO1oxpg

www.narcan.com

Administering Naloxone

Pre-Filled Injectable Intranasal Naloxone https://www.youtube.com/watch?v=Js6NIZMV2c





Administering Naloxone

- EVZIO Intramuscular Naloxone Auto-Injector
 - Follow voice-activated trainer instructions
 - Pull EVZIO from the outer case
 - Pull off the red safety guard
 - Place the black end against the middle of the patient's outer thigh until you hear a distinct sound (click & hiss)
 - Press firmly and hold in place for 5 sec
 - Needle will inject & retract into the autoinjector after use

https://www.youtube.com/watch?v=-DQBCnrAPBY







Monitor and Support

- After receiving naloxone, a person may experience flu like symptoms such as
 - Nausea, vomiting, diarrhea
 - Body Aches
 - Chills
 - Confusion
 - Tremors
 - Agitation or upset due to withdrawal symptoms or coming off their high
 - RARE cases seizure, tachycardia, and cardiac arrest (may be more related to hypoxia rather than naloxone), and, pulmonary edema (severe opioid overdoses)

Monitor and Support

- Naloxone lasts for 30 90 minutes
 - Heroin overdose lasts for several hours
 - After 90 minutes, effects of opioid may return depending on the opioid & the amount in the bloodstream → may have to administer 2nd dose
- Therefore, call 911 and stay with the person till EMS arrives
 - If you must leave, place the person in recovery position so that person's airway is clear and does not choke on vomit
 - Discourage the patient from taking more drugs

Duration of Naloxone & The Opioid

Drug	Duration	Naloxone wears off in…
Methadone	24-32 hours	30-90 mins
Heroin	6-8 hours	30-90 mins
Oxycontin	3-6 hours	30-90 mins
Codeine	3-4 hours	30-90 mins
Demerol	2-4 hours	30-90 mins
Morphine	3-6 hours	30-90 mins
Fentanyl	2-4 hours	30-90 mins

Chart from OOD Prevention & Reversal Trainers Manual - BPHC

- Oxygen
 - Open / secure airway
 - BLS

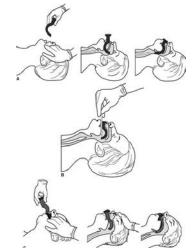
OVEROOSE DEATH IS PREVENTABLE.

- Naloxone again
 - 2-3 minutes later
 - Recovery position if breathing
 - Stay with the person until help arrives

Oropharyngeal Airway (OPA)

- Sizing
 - Measure level of the teeth to the angle of the jaw





- Insertion Methods
 - Open mouth using crossedfinger (scissor) technique
 - Insert OPA upside down along the mouth's roof
 - Rotate 180° when it touches the back of mouth
 - Advance until the flange rests on the front teeth



Nasopharyngeal Airway (NPA)

- Sizing
 - Measure from nose tip to the earlobe tip or angle of the jaw
 - Sizing based on the width of the 5th finger is inaccurate (Roberts K et al 2005)
 - Correctly placed → lies just above (~10mm) the epiglottis (Stoneham MD 1993)
 - Too short \rightarrow fails to separate the soft palate from the pharynx
 - Too long \rightarrow can pass into the larynx & aggravate cough & gag reflexes



Nasopharyngeal Airway (NPA)

- Insertion Methods
 - Lubricate w/water-soluble lubricant
 - Insert w/bevel facing septum
 - Continue following the natural curvature of the floor of the nasopharyngeal cavity until the flange is resting on the nasal flare
 - If resistance is encountered, try the other nostril



BVM Ventilation

- Most important airway skill!
- Requires practice to master!
- Always the first response to inadequate oxygenation & ventilation
- Delays the collapse & urgency to intubate

- May be a 1, 2 or 3 person skill ("Pit Crew")
 - Person $1 \rightarrow$ opens airway
 - Person 2 → maintains face seal
 - Person $3 \rightarrow$ squeezes bag
- Pull the chin into the mask!
- Do not push the mask down onto the face!

Suction

- Appropriately size suction catheter
- Hyper oxygenate BEFORE each suction pass
- Insert catheter to pre-measured depth
- Apply suction on withdrawal of catheter
- Limit suctioning to 5 seconds
- Discontinue if HR ↓by 20, ↑ by 40, SPO2 decreases < 90%, or if arrhythmias are produced

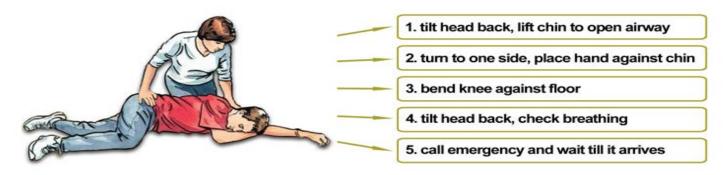




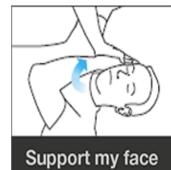


Recovery Position

Overdose Recovery Position









Lift leg

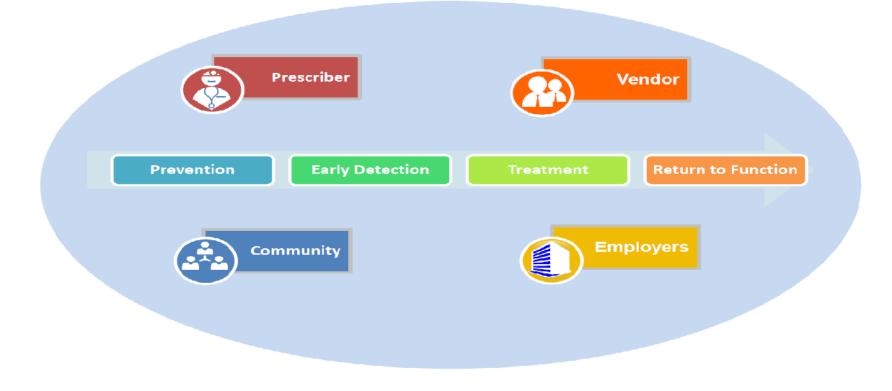


What NOT to do during an Overdose

- Do **NOT** DELAY calling 911
- Do **NOT** place in a bath of cold/ice water
 - Wastes time, slows heartrate and increases risk for arrhythmia and drowning
- Do NOT induce vomiting.
- Do **NOT** offer something to drink
 - Could choke, aspirate more difficult to breathe
- Do **NOT** put ice down the pants or pour water over the victim
- Do NOT slap too hard, kick in the testicles, burn the feet
- Do **NOT** inject fluid (saltwater, cocaine, milk)
- Do **NOT** leave the person until help arrives

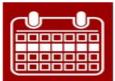
OPERATION PREVENTION

APPROACHING THE PROBLEM A COMPREHENSIVE STRATEGY



Mary Kay O'Neill, MD, MBA, Mercer

NEW LEGISLATION



Begins: July 1, 2018

- 7 day limit on opioid prescriptions for acute pain
- Pharmacists may partial fill



Begins: June 1, 2018

- Mandatory MAPS registration for prescribers
- MAPS report must be reviewed for opioid prescriptions > 3 day supply



Begins: June 1, 2018

- All patients must have attestation of receiving education on high risk predictors for addiction & overdose, diversion, and proper disposal
- Parent/guardian of minors must be included in the education & attestation



Begins: March 28, 2018

Post-overdose patient treatment options must be provided



Begins: December 31, 2018

- Must have bona fide prescriber-patient relationship for opioid prescribing
- Prescribers cannot predate refills

Opioid Prevention

- Prescribing Guidelines
 - Consider opioid therapy only if expected benefits for pain & function outweigh risks
 - Consider or combine with nonpharmacologic therapy and/or nonopioid alternatives
 - 7 day limit (consider 3 days)
 - Physician re-evaluation / follow-up



Procedure		New Recs	% Change	Data for Recommendation
Laparoscopic Cholecystectomy		75	-	How ard[1], Hill[2]
Laparoscopic Appendectomy		75	-	None. Analogy to lap choie
Inguinal/Femoral Hernia Repair (open/laparoscopic)		75	-	Hill[2], Howard "spillo∨er" data
Open Incisional Hernia Repair		150	-25%	New MSQC data(75th percentile)
Laparoscopic Colectomy		145	-22%	New MSQC data(75th percentile)
Open Colectomy		150	-25%	N ew MSQC data(75th percentile)
lleostomy/Colostomy Creation, Re-siting, or Closure		200	-	New MSQC data(75th percentile)
Open Small Bowel Resection or Enterolysis		150	-	N ew MSQC data(75th percentile)
Thyroidectomy		50	-	New MSQC data(75th percentile)
Hysterectomy				
Vaginal	125	100	-20%	N <i>e</i> w MSQC data(75th percentile)
Laparoscopic & Robotic	175	125	-29%	New MSQC data(75th percentile)
Abdominal	220	185	-16%	N ew MSQC data(75th percentile)
Wide Local Excision ± Sentinel Lymph Node Biopsy		150	-	Michigan Medicine institutional guideline
Simple Mastectomy ±Sentinel Lymph Node Biopsy		150	-	Michigan Medicine institutional guideline
Lumpectomy ± Sentinel Lymph Node Biopsy		75	-	Hill[2]
Breast Biopsy		37.5	-50%	Hill[2]
Sentinel Lymph Node Biopsy Alone		75	-	Michigan Medicine institutional guideline

Opioid Prevention

- Prescription Drug Monitoring Programs (PDMPs)
 - Statewide electronic database
 - Tracks all controlled substance rx
 - Calculates total amount of opioids prescribed per day (MME/day)
 - identify pts who are being prescribed other substances that may increase risk of opioids

NEW LEGISLATION



Begins: July 1, 201

- 7 day limit on opioid prescriptions for acute pain
- Pharmacists may partial f



Begins: June 1, 2018

- Mandatory MAPS registration for prescribers
- MAPS report must be reviewed for opioid prescriptions > 3 day supply



Begins: June 1, 2018

- All patients must have attestation of receiving education on high risk predictors for addiction & overdose, diversion, and proper disposal
- Parent/guardian of minors must be included in the education & attestation



Begins: March 28, 2018

Post-overdose patient treatment options must be provided



- Begins: December 31, 2018
- Must have bona fide prescriber-patient relationship for opioid prescribing
- Prescribers cannot predate refills



>10 million individuals on long-term opioid therapy





90 million opportunities to (un)coordinate care

9.2 average number of procedures over a lifetime



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OPIOID START TALKING (MUST BE INCLUDED IN THE PATIENT'S MEDICAL RECORD)

Michigan Department of Health and Human Services

Patient Name		Deto of Birth		
Name of Contro	led Substarce containing an Opioid			
Desage	Ouenity Prescribed (For a minor, if signature is not like parent or guardian, the prescriber must limit the opior to a single. 72 hour supp			
Number of refils				
A controlled Identified as	substance is a drug or other substance that the Unite having a potential for abuse. My provider shared the	d States Drug Enforcement Administration has following:		
a. The risks	s of substance use disorcer and overdose associated with	the controlled substance containing an opioid		
b. Individua	Individuals with mental filress and substance use disorders may have an increased risk of addiction to a controlled substance. (Required only for minors.)			
 Mixing of system of 	Mixing opioids with benzodiazepines, alcohol, muscle reaxers, or any other drug that may depress the central nervous system can cause serious health risks, including death or disability. (Required only for minors.)			
d. For a fer including	For a female who is pregnant or is of reproductive age, the heightened risk of short and long-term effects of opioids, including but not limited to reconstal abstinence syndrome.			
e. Any othe informati	ny other information necessary for patients to use the crug safely and effectively as found in the patient counseling formation section of the labeling for the controlled substance.			
unwante	posal of opioids has shown to reduce injury and death in fa d controlled substances may be done through community tent agencies. Information on where to return your prescri disposal	take-back programs, local pharmanias, or local law		
g. It is a fek licensed	felony to illegally deliver, distribute or share a controlled substance without a prescription properly issued by a ed nealth care prescriber.			
l acknowledg	ge the potential benefits and risks of an opioid medica y of properly managing my medication as stated abov	tion as described by my provider along with the e.		
Signature of Prescriber (when prescribing to a minor)		Date		
Signature of Patient, if a minor, patientis parentiguardan		Dets		
Signature of Pationt's Ropissontative or other authorized adult		Outo		
Printed Name of	Parent/Guardian, Patiant's Roprosentative or other authorized adult			

The Minigan Department of Hoalth and Human Services (MDHHS) does rold actimized against any individual or group because of race, religion, sign, radional organ, color, haight, weight, minital status, genetics information, mex. neural antimitation, gender identity of expression, political beliefs or isbability.	COMPLETION:	PCA 246 of 2017, MCL 333.7203b and MCL 333.7303c Required Probation, limitation, deniel, line, suspension, revocation or germanent revocation.

NDHHS-5730 (4-18a)

Michigan Public Act 246: Provision of information to ALL PATIENTS

A licensed prescriber or other health professional must provide information on all of the following before prescribing:

Danger of opioid addiction

Proper disposal of an expired, unused, or unwanted controlled substance

Delivery of a controlled substance is a felony

For pregnant or female patients of reproductive age, the short- and long-term effects of exposing a fetus to a controlled substance.

Prescriber (or other health professional) must obtain the patient's or patient representative's signature acknowledging receipt and include the signed form in the patient's medical or clinical file.



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- Expand distribution, training, & use of Naloxone
 - 1 death can be prevented for every 227 Naloxone kits distributed (Coffin PO & Sullivan SD. Annals of Int Med. 2013)
- Provide Treatment / Expand Medication-Assisted SUD treatment with counseling and behavioral therapies
- Drug take-back programs



Surgeon General



I, Surgeon General of the United States Public Health Service, VADM Jerome Adams, am emphasizing the importance of the overdose-reversing drug naloxone. For patients currently taking high doses of opioids as prescribed for pain, individuals misusing prescription opioids, individuals using illicit opioids such as heroin or fentanyl, health care practitioners, family and friends of people who have an opioid use disorder, and community members who come into contact with people at risk for opioid overdose, *knowing how to use* naloxone and keeping it within reach can save a life.

Naloxone Distribution Programs

Variation in State Naloxone and Good Samaritan Laws As of October 24, 2017



Prescription by Standing Order Authorized

43 states have a standing order to authorize nonmedical personnel to issue naloxone (as of 7/2017)

Prescribers Immune from Liability

34 States have laws to protect naloxone prescribers from civil and criminal liability (as of 7/2017)





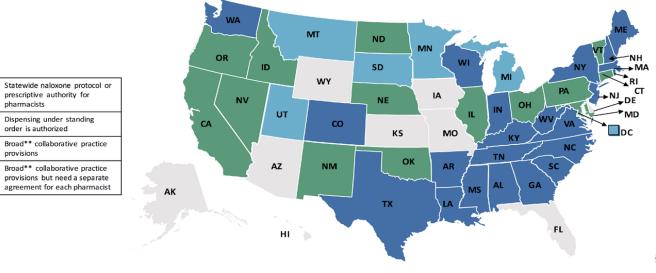
Good Samaritan Law Protects Against Arrest

10 states have Good Samaritan Laws that prevents a person who calls 911 from arrest for drug possession, drug paraphernalia possession, and probation/parole violation (as of 12/2016)



Naloxone Distribution Programs

Utilizing Pharmacists to Increase Naloxone Access



Based on data collected by NASPA (updated February 2016)



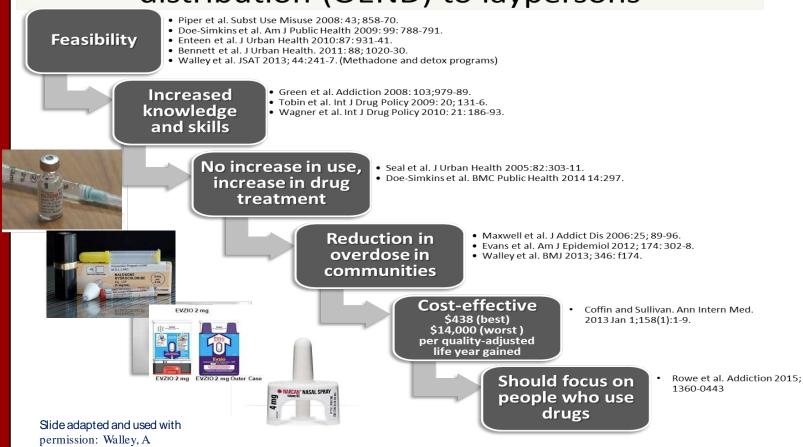
**Broad = Allow initiation of therapy, community pharmacists authorized to participate, no drug restrictions (may need to specify within the agreement), laws/regulations silent regarding the relationship between the prescriber and the patient

Naloxone Distribution Programs

- Common Barriers
 - Liability concerns
 - Resources
 - Time
 - Agency policies
 - Community opposition
 - Ideological differences
 / lack of buy-in to
 Harm Reduction
 Model

- Common Concerns
 - Users are not capable of recognizing & managing an OD with naloxone
 - Person receiving naloxone will be violent upon OD reversal
 - Naloxone access will postpone people's entry into drug treatment
 - Naloxone access encourages riskier drug use

Evaluations of overdose education and naloxone distribution (OEND) to laypersons



Naloxone Access:

In Michigan, you can obtain naloxone through:

1. Standing Order from State Registered Pharmacies

- You do NOT need a prescription
- Here is the list of pharmacies that participate: <u>https://www.michigan.gov/mdhhs/0,5885,7-339-71550_2941_4871_79584_79585_79587_79591---_00.html</u>
- Process:
 - Go to one of the State Registered Pharmacy
 - Usually CVS, Walgreens, Rite-Aid are on the list
 - Ask the pharmacist for naloxone
 - The pharmacist will generate a prescription using the standing order issued by Dr. Wells (State of Michigan Medical Director)
 - Pay the co-pay pending on your insurance
 - Medicaid: \$0-\$3 copay
 - Range \$0-50 pending on your insurance

2. Prescription from a physician, nurse practitioner, physician assistant

3. Agencies that distribute naloxone for free:

To find Overdose Prevention Programs near you: http://hopeandrecovery.crg/

- UNIFIED HIV Health and Beyond 2287 Ellsworth Road in Ypsilanti, MI Lemont Gore: 734-961-1078 Distribute free injectable naloxone (needle and syringe) lemont@mifunified.org
- Contact your local Prepaid Inpatient Health Plan: https://www.michigan.gov/documents/PIHFDIRECTOR_97962_7.pdf
- In Washtenaw, Monroe, Livingston, and Lenawee Counties, contact: Marci Scalera; scaleram@cmhpsm.org

For free naloxone for High Schools and Colleges/Universities: Contact ADAPT for Narcan Nasal Spray: <u>https://www.narcan.com/partnerships</u>

- 5. Kaleo Cares Program for people who meet the qualifications listed on the website: <u>https://evzio.com/patient/in-chronic-pain/kaleo-cares/</u>
- 6. Evzio 2 You Program: https://evzio.com/patient/in-chronic-pain/evzio2you/

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- Evaluate risk of harm or misuse / known risk factors
 - Illegal drug use
 - Rx drug use for nonmedical reasons
 - History or SUD or OD
 - Mental health conditions (e.g. Depression, anxiety, etc.)
 - Sleep-disordered breathing
 - Concurrent benzodiazepine use
- Urine drug testing

- PEG scale (pain & function)
 - What number from 0 10 best describes your pain in the past week? (0 = "no pain"; 10 = "worst pain you can imagine")
 - What number from 0 10 describes how, during the past week, pain has interfered with your enjoyment of life? (0 = "not at all"; 10 = "complete interference")
 - What number from 0 10 describes how, during the past week, pain has interfered with your general activity? (0 = "not at all"; 10 = "complete interference")
 - Average 3 individual question scores
 - 30% improvement from baseline is clinically meaningful

- Pain Management Plan
 - Individualized education
 - Realistic expectations & goals
 - 3-7 day supply limit
 - Lowest effective dose
 - Non-Opioid alternatives
 - Physician re-evaluation
 - Refill policies
 - Outside physicians

- Documentation
 - "Start Talking" Form / Narcotic Medication Contract
 - EMR
 - Medication Use
 Instruction Sheet
 - Informed consent



- Smart Drug Use
 - Do not use drugs alone
 - Be aware of changes of tolerance in your body
 - Train friends to call for help
 - Do not mix drugs & alcohol
 - Use one substance at a time, if possible
 - Reduce substance amounts



QUESTIONS

THANK YOU

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