

Opioid Safety with Naloxone

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Opioid Safety with Naloxone



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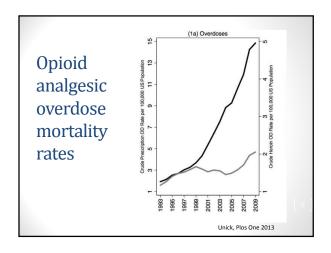
Disclosures

- No financial disclosures
- Discussion of naloxone by intranasal administration, a route not yet FDA approved
- No support from the pharmaceutical industry was used for this educational activity.
- Slides prepared with Eliza Wheeler, MPH, director of the Drug Overdose Prevention and Education Project

Outline

- Background of opioid overdose
- Concept of lay naloxone
- Data for lay naloxone
- Legal framework
- Models of naloxone prescription
- Logistics of naloxone prescription

Poisoning: Leading cause of injury death Motor vehicle traffic Poisoning Drug poisoning Unintentional drug poisoning Unintentional drug poisoning Source: COCNCHS, National Visal Statistics System: and Warner M. Chen LH. Makuc DM. Anderson RN, Minfio AM. Drug poisoning deaths in the United States. 1980-2008. NCHS data brief, no 81. Hyatsville, MD. National Center for Health Statistics, 2011.



Major opioid overdose risk factors

- Prior overdose
- Overdose in any 1 year predicts a 6-fold increased likelihood of overdose in the subsequent year
- Any history of overdose predicts a 4-fold increased risk of mortality (Australian Treatment Outcome Study)
- · Concomitant use of other substances
 - Sedatives
 - Alcohol
 - Cocaine
- Reduced tolerance



Concept of Lay Naloxone

- Overdose usually witnessed (McGregor, Addiction 1998)
- Death takes a while (Sporer, Ann Intern Med 1999)
- EMS not routinely accessed (Coffin, Ann Emerg Med, 2009)
- Naloxone very safe and effective (Terman G, 2012 FDA Hearing on Naloxone)
- More rapid reversal with naloxone may reduce need for advanced respiratory support (GORDON, AM) Emerg Morel 2013)
- Possible behavior change (Lankenau, J Comm Hilth 2013, Kral J Urb Hilth, 2005)

Naloxone Safety Profile

- Short-acting (30-60 minutes), highly specific, high affinity mu opioid receptor antagonist
- The only element of the coma cocktail that can be safely administered alone
- Only contraindication is a known allergy to naloxone
- Opioid withdrawal symptoms generally mild at laydistributed doses
- Opioid effect will return, a significant concern mostly for long-acting opioids, so call 911
- Essentially no effects if opioids not present

US Programs:

- CDC MMWR, 2012: Over 50,000 drug users (and their friends/family) trained between 1996-2010. Over 10,000 reversals reported.
- 60 programs distributing or prescribing naloxone, with approximately 240 individual sites, in 18 US states.*

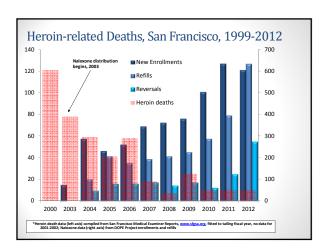
unpublished results of 2013 US naloxone programs survey, completed by the Harm Reduction Coalition

Fatal Opioid Overdose Rates by Naloxone Implementation in MA

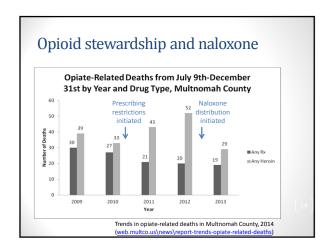
Cumulative enrollments per 100,000 population	ARR*	95% CI
No enrollment	Ref	-
1-100	0.73	0.57-0.91
>100	0.54	0.39-0.76

Adjusted Rate Ratios (ARR) adjusted for city/town population rates of age<18, male, race/ ethnicity (Hispanic, whith black, other), below poverty level, medically supervised inpatient withdrawal treatment, methadone treatment, BSAS-funded buppencyphine treatment, prescriptions to doctor shoppers, year

Walley, BMJ 2013



Cost	-effectiveness		
Inc	remental cost per QALY gained, \$	No Naloxone	Naloxone 421
Kits	s needed to prevent 1 death, n	-	164
	Population outcomes (per 200 000 heroin users) Baseline scenario		
	Lifetime overdoses, n	918 509	930 759
	Lifetime overdose deaths, n	27 406	25 613
	Naloxone kits delivered, n	-	294 484
	Naloxone distribution reduces overdose risk‡ Lifetime overdoses, <i>n</i>	918 509	698 868
	Lifetime overdose deaths, n	27 406	18 835
	Naloxone kits delivered, n	-	307 712
	Coffin & Sullivan, Ann Int Med 2		inn Int Med 2013





Naloxone and the Law

- Naloxone is <u>not</u> a controlled substance; prescribing naloxone to a patient is no different that prescribing other routine medications
- States in orange have added legal protections, such as authorizing:
- Prescribing/dispensing to potential bystanders
- Administration of naloxone by lay bystanders
- Prescribing/dispensing by standing order or directly from pharmacies
- Example of standing order



Models for prescribing naloxone

- Provider writes prescription, patient fills at pharmacy
 - Setting: clinic with insured patients, pharmacies alerted to prescribing plans, may need to have atomizers on-site for intranasal formulation, consider providing informational brochure
- Provider writes prescription and directly dispenses preassembled naloxone kit
 - Setting: medical care with resources to have and maintain kits on-site
- Prescriber writes non-patient specific standing order* for community-based program or treatment program, program staff provide the education and distribute pre-assembled kits
 - Setting: "Overdose prevention programs", commonly found at programs like syringe exchanges, drug treatment programs, drop-in centers, etc.

*By health departments or in states with legislative authorization (CA, IL, KY, NC , NJ, VT)

Target Groups for Naloxone

- Heroin users
- Correctional populations
- Substance use treatment patients
- Family / friends
- First responders

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How to prescribe naloxone

- Injectable
 - Vial:
 - Naloxone 0.4mg/1mL IM if overdose. Call 911. Repeat if necessary. #2.
 - IM syringes (3ml 25 g 1" syringes are recommended) #2
 - Autoinjector: Evzio, 0.4mg naloxone (available July 2014)
- Intranasal (off-label)
- Naloxone 2mg/2mL needleless prefilled syringe, spray ½ into each nostril if overdose. Call 911. Repeat if necessary. #2
- MAD (Mucosal Atomization Device) nasal adapter. #2 (access for pharmacies rapidly improving)
- SBIRT codes cover education in 15 minute intervals
- Medicare G0396
- MedicAid H0050
- Commercial CPT 99408

Administering naloxone IM & IN HOW TO GIVE INTRAMUSCULAR NALOXONE 1. Authors to give to ma malenous value of the control of the control of degree and fall of the control of the co

Patient education



- Minimum care involves ensuring patients know:
- When to administer naloxone
- How to administer naloxone
- To alert others about the medication and how to use it
- Broader education, usually for dispensing under standing orders, generally includes:
 - Opioid overdose risk factors
 - Recognizing and responding to an "overdose"
 - stimulation (sternal rub)
 - calling 911
 - administering naloxone
 - performing rescue breathing or chest compressions
 - stay with person



Pharmacy access

- Consider contacting pharmacies your patients access prior to prescribing naloxone; this is new for most pharmacists.
- Ordering:
- Injectable vial, NDC#00409-1215-01
- Intranasal, NDC#76329-3369-01
- MAD nasal (Teleflex; carried by McKesson, other distributors pending)
- Evzio, expected to be available July 2014
- Counseling:
 - Instruct patients to administer if non-responsive from opioid use and how to assemble for administration.
 - Include family/caregivers in patient counseling or instruct patients to train others
- Billing:
- Varies by state (e.g. MedicAid Fee for Service rather than contracted)
- Additional information for pharmacists

Experience with Clinic-Based Naloxone

- Project Lazarus in North Carolina (Albert, et al., Pain Med 2011)
- Naloxone For Opioid Safety Evaluation (NOSE)
 - Primary care clinics in San Francisco safety net system
 - Naloxone prescribed to all patients receiving chronic opioids
- Initiated spring of 2013, final clinic enrolled April 2014
- Funded by the National Institute on Drug Abuse
- 555 patients prescribed naloxone since initiation

Emerging Themes Among Patients Prescribed Naloxone

- · Naloxone alerts patients to risks of opioids
 - "It made me think that I was playing with my life"
 - "I've probably been a little more cautious. Just being careful to take the right amount, count the hours, you know, think more cautiously about dosing"
- Naloxone increases patient comfort
 - "It just reassures me that if I do have a breathing problem, that drug is there to solve the problem"
 - "It's a great idea ... There have been at least 1 or 2 times where I've been the one to go 'oh wait, I just took a pill 20 minutes ago and I just took another – oops!' it does happen, even to young people who aren't fuzzy ..."

Preliminary data from "Naloxone for Opioid Safety Evaluation", 2014

Talking about "opioid safety"

- Prescription opioid users, including former heroin users, may not perceive their own "overdose" risk
- Consider focusing on "opioid safety" with language such as:
- "Opioids can sometimes slow or even stop your breathing"
- "Naloxone is the antidote to opioids to be [sprayed in the nose / injected] if there is a bad reaction where you can't wake up"
- "Naloxone is for opioid medications like an Epi-Pen is for someone with an allergy"

Do you take strong pain medications?		
For example: Percocet, Vicodin, methadone, oxycodone, morphine, MSContin, Dilaudid, fentanyl, or any other "opiate" medication?		
Ask your provider for naloxone!!		
Nationone is an antidote sprayed into the nose if you are too sleepy or can't be woken so due to these pain medications.		
Talk to your provider for more information.		

Funding for Programs

- County general fund (to purchase materials for pre-assembled kits and other costs)
- SAMHSA SAPT HIV-set aside funds
- The purpose of the HIV-Set Aside is to provide HIV early intervention services to clients in substance abuse treatment programs (and out-of-treatment injection drug users).
- Billable to select insurances, including some MedicAid plans, many part D programs, and others
- Current costs for an injectable vial or intranasal kit of naloxone is ~\$50; price for autoinjector not yet known

Resources for providers

- Naloxone Program Implementation Manual: www.harmreduction.org/issues/overdose-prevention/tools-best-practices
- AHRQ description of Massachusetts naloxone program: http://www.innovations.ahrq.gov/content.aspx?id=3912
- Clinic-based prescribing information and guidelines: www.prescribetoprevent.org

www.csam-asam.org/naloxone-resources

- Pharmacy resources: <u>www.stopoverdose.org</u>
- Advocacy film and materials: Reach for Me: Fighting to End the American Drug Overdose Epidemic www.reach4me.org
- Research updates and other overdose-related news: www.overdosepreventionalliance.org

Resources for recipients

- Videos about naloxone, opioid safety/overdose, and how to respond in emergencies:
 - http://harmreduction.org/issues/overdose-prevention/toolsbest-practices/overdose-videos/
- www.prescribetoprevent.org/video
- How to find a community-based naloxone distribution program (for parents and drug users who do not have access through the health care system):

http://www.overdosepreventionalliance.org/p/od-prevention-program-locator.html

Resources for families:

- Learn to Cope: online discussion forum for parents of drug users: http://www.learn2cope.org/
- Grief Recovery from a Substance Passing (GRASP), for people who have lost a loved one to overdose: http://grasphelp.org/
- Broken No More, a support group and advocacy organization for parents interested in advocating for drug policy reform: http://broken-no-more.org/
- Al-anon and Nar-anon, 12 step recovery groups for families and friends affected by another person's drinking or drug use.

Summary

- Naloxone access for laypersons is an evidence-based intervention that reduces mortality from overdose
- Any prescribers can provide naloxone to patients at risk of an opioid overdose; in states with additional legislation:
- prescribers can:
- provide naloxone to anyone at risk of witnessing an overdose
- issue a standing order authorizing others to distribute naloxone
- naloxone recipients may administer naloxone to others in the case of suspected opioid overdose
- Education can be brief or more detailed; SBIRT codes are available for billing
- Naloxone is covered by many MediAid programs; pharmacies may need guidance and atomizer access is limited
- Patients are receptive to naloxone prescription and there may be ancillary behavioral benefits

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Questions	
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