

# Hospital and Emergency Department-Based Naloxone Distribution

Opioid Overdose Prevention Seminar  
12/17/2020

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<https://bit.ly/39L9AIN>

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## Disclosures

- Grant funding: AHRQ R01HS027426, NIDA UG1DA015831
- Annual stipend: JAMA Network Open

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## Why Distribute Naloxone?

To Save Lives



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## Why Distribute Naloxone?

It is a Token that Increases Therapeutic Alliance



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## Why Distribute Naloxone?

Opens to Door for a Conversation on MOUD



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## Objectives

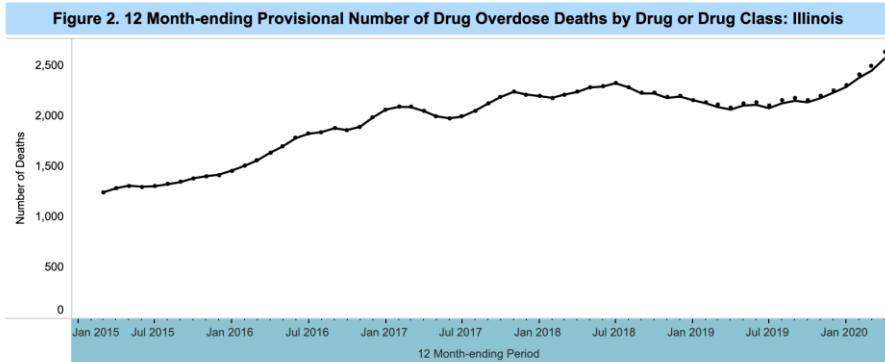
- **Describe recent trends in Illinois opioid overdoses**
- Define various models of naloxone distribution
- Discuss common barriers to implementation of naloxone distribution programs
- Describe key logistical details relating to building and sustaining a naloxone distribution program

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## IL Opioid Overdose Trends

### Overdose Deaths



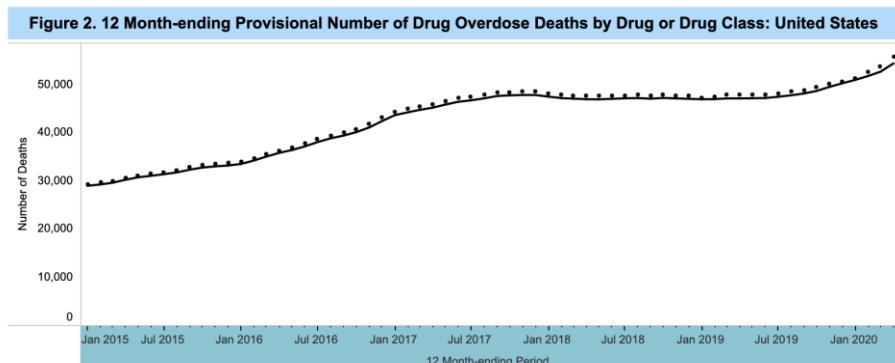
**Vital Statistics Rapid Release**  
Provisional Drug Overdose Death Counts

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## US Opioid Overdose Trends

### Overdose Deaths



**Vital Statistics Rapid Release**  
Provisional Drug Overdose Death Counts

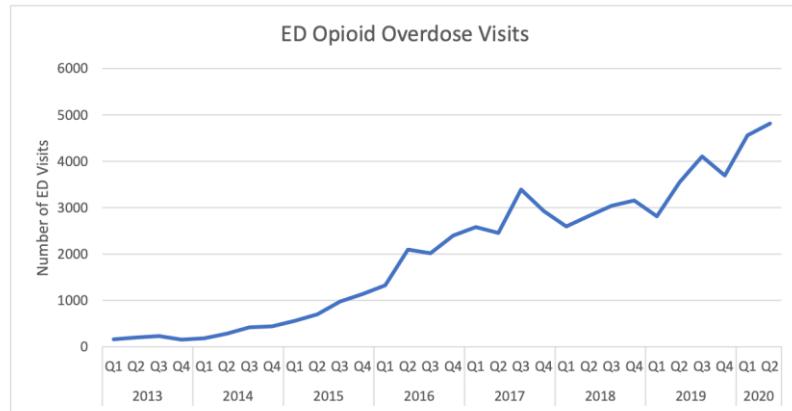
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## IL Opioid Overdose Trends

ED Visits



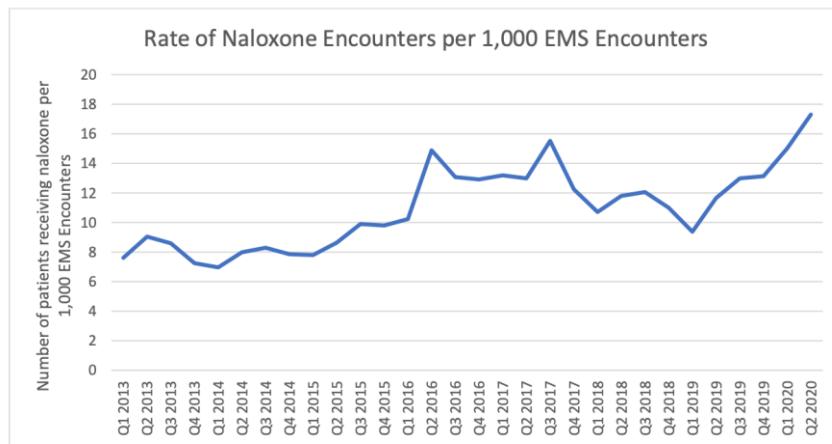
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## IL Opioid Overdose Trends

EMS Encounters



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## IL Opioid Overdose Trends

### Opioids Involved in Overdose

#### Opioid-related overdose death characteristics, Chicago January - June 2020

	January - June 2019			January - June 2020			2019-2020 % Change in rate
	n	%	Rate <sup>II</sup>	n	%	Rate <sup>II</sup>	
<b>Chicago</b>	370	100.0%	13.6	573	100.0%	20.9	53.7%
<b>Drug Type<sup>I</sup></b>							
Heroin-involved	211	57.0%	7.8	264	46.1%	9.7	24.4%
Fentanyl-involved	297	80.3%	11.0	471	82.2%	17.2	56.4%
Fentanyl – only opioid involved	118	31.9%	4.3	213	37.2%	7.7	79.1%
Opioid pain reliever-involved <sup>III</sup>	26	7.0%	0.9	36	6.3%	1.2	33.3%
Methadone-involved	25	6.8%	0.9	62	10.8%	2.3	155.6%



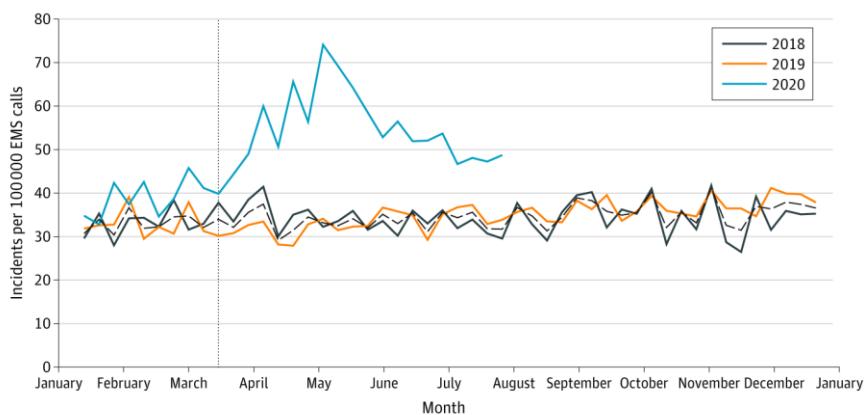
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## IL Opioid Overdose Trends

### During COVID?

#### A Overdose-related cardiac arrests



JAMA Psychiatry. 2020 Dec 3. doi: 10.1001/jamapsychiatry.2020.4218. Online ahead of print.

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## Objectives

- Describe recent trends in Illinois opioid overdoses
- **Define various models of naloxone distribution**
- Discuss common barriers to implementation of naloxone distribution programs
- Describe key logistical details relating to building and sustaining a naloxone distribution program

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## Naloxone Distribution

Prescribing vs Dispensing Definitions

**PRESCRIBING: Traditional process of writing a prescription, filling it at a pharmacy**

- **Cook County: Less than 1 in 5 ED naloxone prescriptions filled**
- **Multiple barriers to prescription filling:**
  - Limited stock (1/3 of pharmacies reported not in stock)
  - Limited knowledge of standing orders (2/3 reported required an Rx)
  - High Cost (\$145)
  - Limited open hours
  - Lack of transportation
  - Stigma

Am J Emerg Med. 2019 Jan;37(1):164-165. doi: 10.1016/j.ajem.2018.05.044.  
JAMA Netw Open. 2019 Jun 5;2(6):e195388.

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## Naloxone Distribution

Prescribing vs Dispensing Definitions

**DISPENSING:** Hand the medication to the patient as they walk out the door (ie, “take-home naloxone”)



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## Naloxone Distribution

Prescribing vs Dispensing Definitions

**FACILITATED OUTPATIENT FILLING:** Hybrid of prescribing and dispensing models used primarily for hospitalized patients

- Care team assists in fulfilling all steps of obtaining a prescription medication on behalf of the patient

### Disadvantages:

- Substantial time investment
- Requires processing of patient insurance or payment

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## Naloxone Distribution

### Delivery Models

- **Prescribing:** indirect
  - Traditional Rx from physician
  - Naloxone standing order
- **Dispensing:** direct
  - Take-home naloxone
- **Facilitated outpatient filling:** hybrid

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## Naloxone Distribution

### Formulations

#### Intramuscular:

- “Vials and supplies” kit
- **Evzio® Auto-Injector**



#### Intranasal

- **Narcan® Nasal Spray**
- **Multi-Step Atomizer Kit**

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## Naloxone Distribution

### "Vials and Supplies"

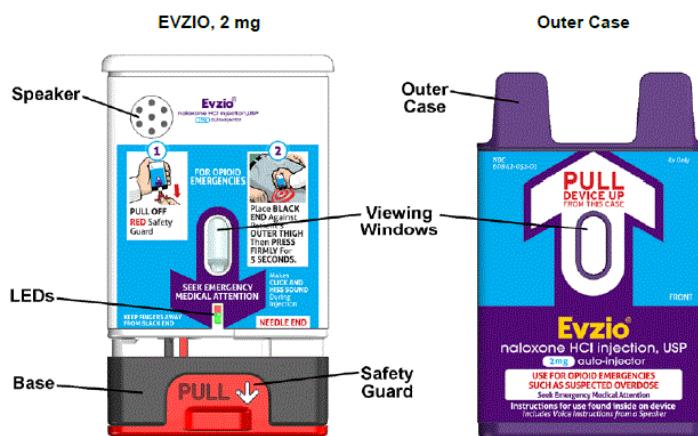


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## Naloxone Distribution

### Evzio®



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## Naloxone Distribution

### Narcan®



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## Naloxone Distribution

### Multi-step Atomizer



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## Naloxone Distribution

Formulations

### Intramuscular:

- “Vials and supplies” kit
- Evzio® Auto-Injector



### Intranasal

- Narcan® Nasal Spray
- Multi-Step Atomizer Kit

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## Naloxone Distribution

Settings

- Community-based
- Jail-based
- Hospital/ED-based

*No matter the setting, naloxone distribution works!*

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## Take-Home Naloxone Works!

Community Distribution

**MA communities trained by OEND programs**

- 2912 bystanders trained, 327 rescues reported (**11.2%**)
- Reduction in overdose death for communities that had high enrollment in OEND: **aRR 0.54** (95% CI 0.57-0.91)

**NM Outpatient Opioid Treatment Program**

- 395 trained, 114 community reversals reported (**18%**)

BMJ. 2013 Jan 30;346:f174.  
JAMA Netw Open. 2020 Feb 5;3(2):e200117.

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## Take-Home Naloxone Works!

Jail-Based Distribution

**San Francisco County Jail**

- 453 trained, 63 community reversals reported (**13.9%**)

**Cermak Health Services at Cook County Jail**

- 60 trained, 23 community overdoses reported (**38.3%**)

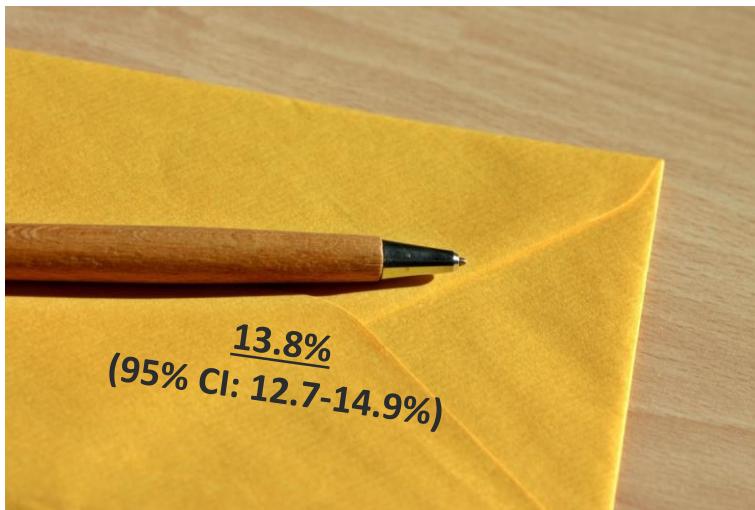
J Correct Health Care. 2019 Oct;25(4):394-404.  
J Correct Health Care. 2020 Sep 15;1078345820954586.

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## Take-Home Naloxone Works!

Pooled Utilization Rate



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## Objectives

- Describe recent trends in Illinois opioid overdoses
- Define various models of naloxone distribution
- **Discuss common barriers to implementation of naloxone distribution programs**
- Describe key logistical details relating to building and sustaining a naloxone distribution program

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## Building a Naloxone Program

### Barriers and Facilitators

- Lessons learned from conversations with hospitals
- Every hospital/health system is different

TOXICOLOGY/CONCEPTS | VOLUME 76, ISSUE 3, P318-327, SEPTEMBER 01, 2020

Take-Home Naloxone Program Implementation:  
Lessons Learned From Seven Chicago-Area Hospitals

Vidya Eswaran, MD • Katherine C. Allen, PharmD • Diana C. Bottari, DO • Jennifer A. Siplawski, PharmD •  
Sukheer Bains, MD • Steven E. Aks, DO • Henry D. Swoboda, MD • P. Quincy Moore, MD •  
Tran H. Tran, PharmD • Elizabeth Salisbury-Afshar, MD, MPH • Patrick M. Lank, MD, MS •  
Danielle M. McCarthy, MD, MS • Howard S. Kim, MD, MS • Show less

Published: March 30, 2020 • DOI: <https://doi.org/10.1016/j.annemergmed.2020.02.013> •  Check for updates

Ann Emerg Med. 2020 Sep;76(3):318-327.

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## Building a Naloxone Program

### Barriers

- Most Frequent Barriers:
  1. Uncertainty re: legitimacy/legality
  2. Finding a naloxone supply
  3. Staff resistance
  4. Administrative bureaucracy

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## Building a Naloxone Program

Barrier 1: Uncertainty re: Legitimacy/Legality

**Generally:**

**“Are you sure this is legitimate?”**

**Specifically:**

- 1. Do we have the authority to dispense a medication?**
- 2. What is our liability exposure (criminal, civil, licensing)?**

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## Building a Naloxone Program

Barrier 1: Uncertainty re: Legitimacy/Legality

**Generally:**

**“Are you sure this is legitimate?”**

**VIEWPOINT**

**Increasing Naloxone Awareness: The Role of Health Care Practitioners**

Jerome M. Adams, MD, MPH, VADM  
US Public Health Service

The Office of the Surgeon General has released a public health advisory for the first time in more than a decade in response to the alarming escalation of opioid overdose deaths across the country. Despite evidence

**Emergency Department Naloxone Distribution**

**Key Considerations and Implementation Strategies**

American College of Emergency Physicians® **Trauma & Injury Prevention Section**

ADVANCING EMERGENCY CARE

**Chicago-area hospitals sending opioid overdose patients home with antidote**

By LISA SCHENCKER  
CHICAGO TRIBUNE | OCT 16, 2018 AT 10:00 AM

**Twitter Facebook Email**

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## Building a Naloxone Program

### Barrier 1: Uncertainty re: Legitimacy/Legality

#### Specifically:

##### 1. Do we have the authority to dispense a medication?

- IL Pharmacy Practice Act (225 ILCS 85)
- IDPH/IDFPR/DHS "Illinois Naloxone Standardized Procedure"
- Analogy to post-exposure prophylaxis for sexual assault

##### 2. What is our liability exposure (criminal, civil, licensing)?

- Drug Overdose Prevention Program Law (IL 096-0361)
- Good Samaritan Act (IL 097-0678)
- Heroin Crisis Act (IL 099-0480)

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## Building a Naloxone Program

### Barrier 1: Uncertainty re: Legitimacy/Legality

Statute	Date Enacted	Action	Effect
Drug Overdose Prevention Program Law (IL Public Act 096-0361)	Jan 1, 2010	Amended the Alcoholism and Other Drug Abuse and Dependency Act (20 ILCS 301/5-23 new)	Authorized Drug Overdose Prevention Programs for dispensing or distributing naloxone to individuals not personally at risk of opioid overdose Health care professionals who prescribe and dispense naloxone in good faith, and provide appropriate training on use, are not subject to disciplinary or other adverse action under any professional licensing statute. Any person who has received proper training can legally administer naloxone and is immune from criminal prosecution for the unauthorized practice of medicine or the possession of an opioid antidote.
Emergency Medical Services Access Law, aka Good Samaritan Act (IL Public Act 097-0678)	Jun 1, 2012	Amended the IL Controlled Substances Act (720 ILCS 570/414 new)	Established limited criminal immunity for drug possession charges (previously a class 4 felony) for any individual seeking emergency medical assistance for either themselves or another individual experiencing overdose.
Illinois Pharmacy Practice Act (225 ILCS 85)	Apr 20, 1975	Established definitions and procedures for pharmacy practice	A medication may be immediately dispensed by the institutional pharmacy to a discharged ED patient, provided it meets proper record-keeping and labeling requirements (sections b.1.-3 and c.3., respectively).
	Apr 23, 2015	Amended section 1330.530: Onsite Institutional Pharmacy Services	In the absence of an institutional pharmacist, a medication may be dispensed from the ED by a practitioner licensed to prescribe and dispense and only during hours in which outpatient institutional pharmacy services are not available, provided the dispensed medication meets proper labeling requirements and the hospital has a written policy for ED dispensing (section e.4.).
Heroin Crisis Act, aka Lali's Law (IL Public Act 099-0480)	Sep 9, 2015	Amended the Illinois Pharmacy Practice Act (225 ILCS 85/19.1 new)  Amended the Alcoholism and Other Drug Abuse and Dependency Act (20 ILCS 301/5-23 new)	Authorized a standing order for retail pharmacists to dispense naloxone to patients without a prescription, provided a standardized protocol is in place and the pharmacist has completed a training program  Clarified language on Drug Overdose Prevention Programs to indicate that naloxone may be dispensed or distributed to persons who may be in a position to assist other individuals during drug overdose Health care professionals who prescribe or dispense naloxone in good faith, and provide appropriate training on use, are not subject to criminal liability (in addition to existing protections from disciplinary action under professional licensing statutes). Any person who has received proper training can legally administer naloxone and is immune from civil liability (in addition to existing criminal liability).
		Amended the Illinois Insurance Code (215 ILCS 5/356a.23 new)	Any individual or group health insurance policy with prescription drug benefits must provide coverage for at least 1 form of naloxone. Insurance that provides prescription coverage must cover at least 1 opioid antagonist.
		Amended the Good Samaritan Act (745 ILCS 49/36 new)	Pharmacists who dispense naloxone in good faith and in compliance with the Pharmacy Practice Act are immune from civil liability.

IL, Illinois ILCS, Illinois Compiled Statutes.

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## Building a Naloxone Program

### Barrier 1: Uncertainty re: Legitimacy/Legality



#### Illinois Naloxone Standardized Procedure

This updated Naloxone Standardized Procedure outlines how entities may become authorized to obtain, dispense, and administer naloxone hydrochloride for the purpose of reversing an opioid overdose. This Procedure also presents the educational requirements for obtaining the Illinois Naloxone Standing Order and the technique for administering naloxone.

##### Introduction

In September 2015, Illinois enacted Public Act 99-0480 (Act), expanding access to the opioid antagonist, naloxone. Naloxone may be used to reverse opioid overdoses, including those caused by heroin, fentanyl, and certain prescription pain medications. The law authorizes trained pharmacists and first responders to dispense naloxone as an opioid antagonist intervention.

Pursuant to the Act, the Illinois Department of Financial and Professional Regulation (IDFPR) – in consultation with the Illinois Department of Public Health (IDPH) and Illinois Department of Human Services (IDHS) – has issued a standardized procedure for appropriately trained professionals to obtain, dispense, or administer naloxone.

##### Naloxone Entity

Naloxone Entities may include pharmacies, pharmacists, or opioid overdose education and naloxone distribution (OEND) programs.

- Participating pharmacies and pharmacists must be licensed under the Illinois Pharmacy Practice Act (225 ILCS 85), complete training approved by IDHS pursuant to Public Act 99-0480, (which may include any previously approved training modules or viewing the training videos available at <https://idph.illinois.gov/Naloxone>) and have understanding of this document, the Illinois Naloxone Standardized Procedure. Pharmacies/pharmacists should report naloxone dispensing to the Illinois Prescription Monitoring Program at <https://www.ipmp.org/>.
- Any non-pharmacy OEND program must be registered with the IDHS Division of Substance Use Prevention and Recovery [Drug Overdose Prevention Program \(DOPP\)](#) at

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## Building a Naloxone Program

### Barrier 1: Uncertainty re: Legitimacy/Legality

#### No known cases of medical negligence for distributing naloxone

##### Duty / Breach / Causation / Damage

**Duty** to exercise a degree of care expected of a reasonably competent practitioner in the same class to which the practitioner belongs, acting under similar circumstances.

##### *What is the standard of care?*

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## Building a Naloxone Program

### Barrier 2: Finding a Naloxone Supply

**Multiple EDs have tried to solve the billing/reimbursement puzzle and have failed**

- Numerous logistical challenges

***The defining feature of any take-home naloxone program is that the medication comes at no cost to the patient.***

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## Building a Naloxone Program

### Barrier 2: Finding a Naloxone Supply

**Where do I even begin the process of procuring naloxone?**

**Pathways:**

1. Donation from an existing naloxone distribution program
2. Purchase using hospital pharmacy procurement process

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## Building a Naloxone Program

### Barrier 2: Finding a Naloxone Supply

#### 1. Donation from an existing naloxone distribution program

##### IDHS/SUPR Funded OEND Programs:

Provider	Program Contact	Email	Program Contact Phone
Champaign-Urbana Public Health District**	Candi Crause	<a href="mailto:crause@c-uphd.org">crause@c-uphd.org</a>	217-531-5372
Chestnut Health Systems*	Donna Nahlik Naloxone Hotline	<a href="mailto:dnahlik@chestnut.org">dnahlik@chestnut.org</a> <a href="mailto:sr-narcanc@chestnut.org">sr-narcanc@chestnut.org</a>	618-205-8133 618-512-1781
Chicago Recovery Alliance*	Greg Scott	<a href="mailto:greg_scott@me.com">greg_scott@me.com</a>	312-953-3797
DuPage County Health Department**	Mila P. Tsagalis	<a href="mailto:mtsagali@dupagehealth.org">mtsagali@dupagehealth.org</a>	630-221-7572
Egyptian Republic and Mental Health Department**	Katie Unthank	<a href="mailto:kunthank@egyptian.org">kunthank@egyptian.org</a>	618-273-3326 ext. 2133
Human Service Center of Peoria**	Chrissy Smith	<a href="mailto:CHSmith@hscpeoria.org">CHSmith@hscpeoria.org</a>	309-282-1084
Kane County Health Department**	Uche S. Onwuta	<a href="mailto:onwutauche@co.kane.il.us">onwutauche@co.kane.il.us</a>	630-444-3077
Kankakee County Health Department**	Lindsay Wilson	<a href="mailto:lwilson@kankakeehealth.org">lwilson@kankakeehealth.org</a>	815-802-9396
Lake County Health Department**	Martin Clancy	<a href="mailto:MClancy@lakecountyil.gov">MClancy@lakecountyil.gov</a>	847-377-8199
McHenry County Health Department**	Joan Stevens Thorne	<a href="mailto:joans@co.sangamon.il.us">joans@co.sangamon.il.us</a>	217-535-3100 ext. 3709
Will County Executive Office*	Kathleen Burke	<a href="mailto:kathleen.burke@willcountylinois.com">kathleen.burke@willcountylinois.com</a>	708-205-5782
Winnebago County Health Department**	Cheryl Floyd	<a href="mailto:CFloyd@wchd.org">CFloyd@wchd.org</a>	815-720-4315



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## Building a Naloxone Program

### Barrier 2: Finding a Naloxone Supply

#### 2. Purchase using hospital pharmacy procurement process

##### Possible funding sources:

- 340b discount program
- Hospital charity funds
- Implementation grants

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## Building a Naloxone Program

Barrier 3: Staff Resistance

**Resistance from staff about:**

1. Isn't this just encouraging risky behavior (moral hazard)?
2. Serving as the prescriber of record

**Responses:**

1. A patient presenting to your hospital/ED with opioid overdose is already engaging in the riskiest behavior possible
2. You can use the Illinois Standing Order for Naloxone
3. Publicize "wins" among your department

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## Building a Naloxone Program

Barrier 4: Administrative Bureaucracy

**Implementation is frequently obstructed by endless red tape, which stymies all enthusiasm/momentu**

**Strategies:**

1. Do your homework beforehand, come prepared
2. Find a C-suite champion
3. Engage with hospital/ED pharmacy early

***The biggest obstacle is uncertainty!***

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## Objectives

- Describe recent trends in Illinois opioid overdoses
- Define various models of naloxone distribution
- Discuss common barriers to implementation of naloxone distribution programs
- **Describe key logistical details relating to building and sustaining a naloxone distribution program**

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## Naloxone Program Logistics

### Supply Estimation

#### How much naloxone do you need?

##### Options:

- Experience of Chicago EDs: 4-12 kits/month
- Run your own ICD-10 query to estimate opioid visits

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## Naloxone Program Logistics

### Choosing a Formulation

#### Which formulation should you use?

- “Vials and Supplies” (IM)
- Narcan® nasal spray (IN)
- Multi-step atomizer (AT)

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## Naloxone Program Logistics

### Choosing a Formulation

#### Comparing usability of IM vs IN vs AT among laypersons:

Table 3. Outcomes

Device type	Successful naloxone administration	Median time to successful naloxone administration	Usability of device, median score <sup>a</sup>
Nasal spray (n=69)	66.7% <sup>b</sup>	16 sec <sup>d</sup> (n=47)	10 <sup>e</sup>
Intramuscular (n=68)	51.5% <sup>b</sup>	58 sec (n=35)	8 <sup>b</sup>
Improvised nasal atomizer (n=70)	2.9%	113 sec (n=2)	4

- IN slightly more usable than IM
- AT device very hard to utilize

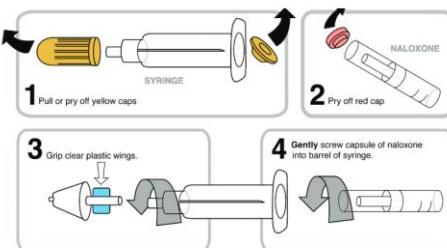
## Naloxone Program Logistics

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Pharmacotherapy. 2020 Jan;40(1):84-88.

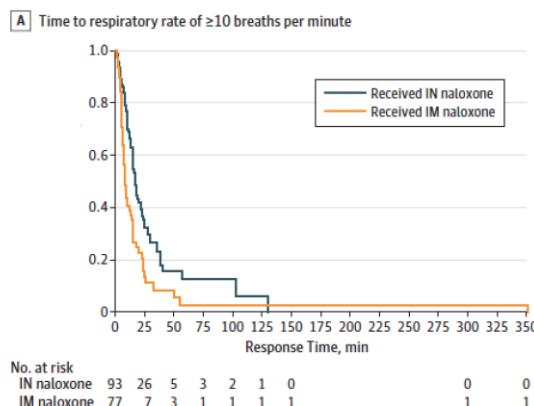
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## Naloxone Program Logistics

### Choosing a Formulation

#### Comparing clinical effects of IM vs IN among professionals:



JAMA Netw Open. 2019 Nov 1;2(11):e1914977.

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## Naloxone Program Logistics

Choosing a Formulation

### Comparing costs:

- “Vials and Supplies” (IM): \$13-\$15/kit
- Narcan® nasal spray (IN): \$115-\$150/kit
- Multi-step atomizer (AT): \$66/kit
- Evzio auto-injector: \$178/kit

All things considered, “vials and supplies” likely best option

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## Naloxone Program Logistics

Recordkeeping, Labeling, Education

### Meeting Dispensing Requirements:

- **Recordkeeping:** Create a custom EHR order for easy tracking
- **Proper Labeling:** Link custom order to printed label (central pharmacy) with name, prescriber, dosing info. Or utilize blank sticker labels that can be filled in
- **Patient Education:** Utilize a non-physician educator

IDHS has education/training materials: <https://bit.ly/39K4YfT>

***The entire process should be easily triggered, efficient and automated!***

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## Naloxone Program Logistics

Recordkeeping, Labeling, Education

**Utilize a non-physician educator!**

**Table 2.** Key features of take-home naloxone programs at 7 Chicago-area hospitals.

Hospital	Clinical Setting	Annual ED Visits	Program Conception	Program Launch	Funding Source	Delivery Model	No. of Monthly Kits Dispensed	Naloxone Formulation	Primary Educator	Prescriber
1	ED	110,000	May 2018	Oct 2018	Donation	Take-home naloxone	7.5	Intramuscular (3 vials/syringes)	ED nurse/video	Standing order
	IP		Dec 2018	Dec 2018	Patient insurance*	Filled Rx to bedside	4.4	Intranasal (2 prefilled syringes/atomizer)	IP nurse/video	Standing order
2	IP	66,000	Nov 2015	Nov 2016	Patient insurance <sup>†</sup>	Filled Rx to bedside	10.4	Narcan nasal spray (2) <sup>‡</sup>	IP nurse	Treating provider
3	ED	43,000	Jan 2018	Aug 2019	Charity	Take-home naloxone	4.0	Narcan nasal spray (2)	ED pharmacist	Treating provider
4	ED+IP	120,000	Jan 2010 <sup>‡</sup>	May 2011	Patient insurance	Patient given Rx	N/A <sup>§</sup>	Intramuscular (3 vials/syringes)	OP pharmacist	Treating provider
5	ED	72,000	Mar 2019	May 2019	Charity	Take-home naloxone	8.0	Intramuscular (2 vials/syringes)	ED nurse	Treating provider
	OP		Jun 2018	Jul 2018	Donation	Take-home naloxone	15.0	Intramuscular (2 vials/syringes)	OP nurse	Treating provider
	IP		Jan 2018	Apr 2018	Patient insurance*	Filled Rx to bedside	20.0	Narcan nasal spray (2)	IP pharmacist <sup>‡</sup>	Treating provider
6	ED	91,000	Jan 2018	Oct 2018	Donation, charity	Take-home naloxone	9.4	Intramuscular (3 vials/syringes)	ED pharmacist	Treating provider
7	ED	76,000	Jan 2018	Apr 2019	Grant	Take-home naloxone	12.5	Intramuscular (2 vials/syringes)	ED nurse/video	Treating provider

Ann Emerg Med. 2020 Sep;76(3):318-327.

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## Objectives

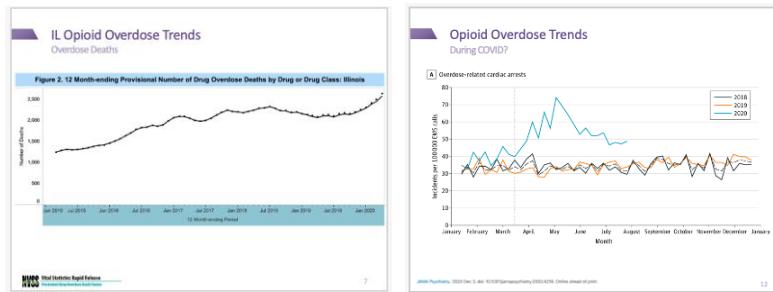
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## Summary

### 1. Describe recent trends in opioid overdoses

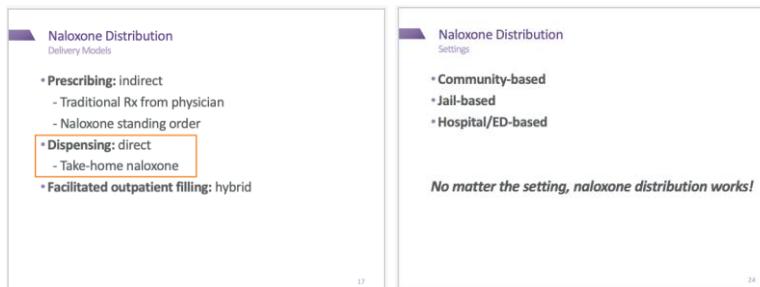


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## Summary

### 2. Define various models of naloxone distribution



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## Summary

### 3. Discuss common barriers to implementation of naloxone distribution programs

Building a Naloxone Program Barriers	Building a Naloxone Program Barrier 1: Uncertainty re: Legitimacy/Legality
<ul style="list-style-type: none"><li>• <b>Most Frequent Barriers:</b><ol style="list-style-type: none"><li>1. Uncertainty re: legitimacy/legality</li><li>2. Finding a naloxone supply</li><li>3. Staff resistance</li><li>4. Administrative bureaucracy</li></ol></li></ul>	<p><b>Specifically:</b></p> <ol style="list-style-type: none"><li>1. Do we have the authority to dispense a medication?<ul style="list-style-type: none"><li>- IL Pharmacy Practice Act (225 ILCS 85)</li><li>- IDPH/IDPR/DHS "Illinois Naloxone Standardized Procedure"</li><li>- Analogy to post-exposure prophylaxis for sexual assault</li></ul></li><li>2. What is our liability exposure (criminal, civil, licensing)?<ul style="list-style-type: none"><li>- Drug Overdose Prevention Program Law (IL 096-0361)</li><li>- Good Samaritan Act (IL 097-0678)</li><li>- Heroin Crisis Act (IL 099-0480)</li></ul></li></ol>

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## Summary

### 3. Discuss common barriers to implementation of naloxone distribution programs

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## Summary

### 4. Describe key logistical details relating to building and sustaining a naloxone distribution program

**Naloxone Distribution Formulations**

**Intramuscular:**

- "Vials and supplies" kit
- Evzio® Auto-Injector

**Intranasal:**

- Narcan® Nasal Spray
- Multi-Step Atomizer Kit

**Naloxone Program Logistics**  
Recordkeeping, Labeling, Education

**Utilize a non-physician educator!**

Table 2. Key features of naloxone response programs at 7 Chicago-area hospitals.

Number	Client	Address	Anticoag	Program	Program	Training	Delivery	No. of Naloxone	Storage	Primary	Provider
1	HS	1111550	May 2016	Oct 2016	Internist	Teach/teach	75	Intermittent (0 daily)	100% non-pharm	Non-pharm	Non-pharm
2	IP	Box 2018	Dec 2016	Patient	Teach/teach	4.4	Intermittent (2 packed every 6 months)	100% non-pharm	Non-pharm	Non-pharm	Non-pharm
3	IP	46050	Nov 2015	Nov 2016	Internist	Teach/teach	33.4	Intermittent (2 packed every 6 months)	100% non-pharm	Non-pharm	Non-pharm
4	ED	43300	Jan 2016	Aug 2016	Chiefly	Teach/teach	4.0	Intermittent (2 packed every 6 months)	100% non-pharm	Non-pharm	Non-pharm
5	ED	20000	May 2016	May 2016	Internist	Teach/teach	4.0	Intermittent (2 packed every 6 months)	100% non-pharm	Non-pharm	Non-pharm
6	IP	31000	Mar 2016	May 2016	Internist	Teach/teach	4.0	Intermittent (2 packed every 6 months)	100% non-pharm	Non-pharm	Non-pharm
7	IP	31000	Jan 2016	Internist	Teach/teach	4.0	Intermittent (2 packed every 6 months)	100% non-pharm	Non-pharm	Non-pharm	Non-pharm
8	IP	31000	Jan 2016	Apr 2016	Patient	Teach/teach	20.0	Intermittent (2 packed every 6 months)	100% non-pharm	Non-pharm	Non-pharm
9	ED	46,000	Jan 2016	Oct 2016	Emergency	Teach/teach	0.4	Intermittent (2 packed every 6 months)	100% non-pharm	Non-pharm	Non-pharm
10	IP	76,000	Jan 2016	Apr 2016	Chiefly	Teach/teach	32.0	Intermittent (2 packed every 6 months)	100% non-pharm	Non-pharm	Non-pharm

Ann Emerg Med. 2016;67(3):318-327.

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## Questions?

All references can be accessed at: <https://bit.ly/39L9AIN>

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