

Emergency Department Initiated Buprenorphine: Expanding the Scope of Emergency Medicine Care During an Addiction Epidemic

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STR-TA
Consortium
State Targeted Response
Technical Assistance

Working with communities to address the opioid crisis.

- ✧ SAMHSA's State Targeted Response Technical Assistance (STR-TA) Consortium assists STR grantees and other organizations, by providing the resources and technical assistance needed to address the opioid crisis.
- ✧ Technical assistance is available to support the evidence-based prevention, treatment, and recovery of opioid use disorders.

Funding for this initiative was made possible (in part) by grant no. 1H79TI080816-01 from SAMHSA. The views expressed in written conference materials or publications and by speakers and moderators do not necessarily reflect the official policies of the Department of Health and Human Services; nor does mention of trade names, commercial practices, or organizations imply endorsement by the U.S. Government.



Working with communities to address the opioid crisis.

- ✧ The STR-TA Consortium provides local expertise to communities and organizations to help address the opioid public health crisis.
- ✧ The STR-TA Consortium accepts requests for education and training resources.
- ✧ Each state/territory has a designated team, led by a regional Technology Transfer Specialist (TTS) who is an expert in implementing evidence-based practices.

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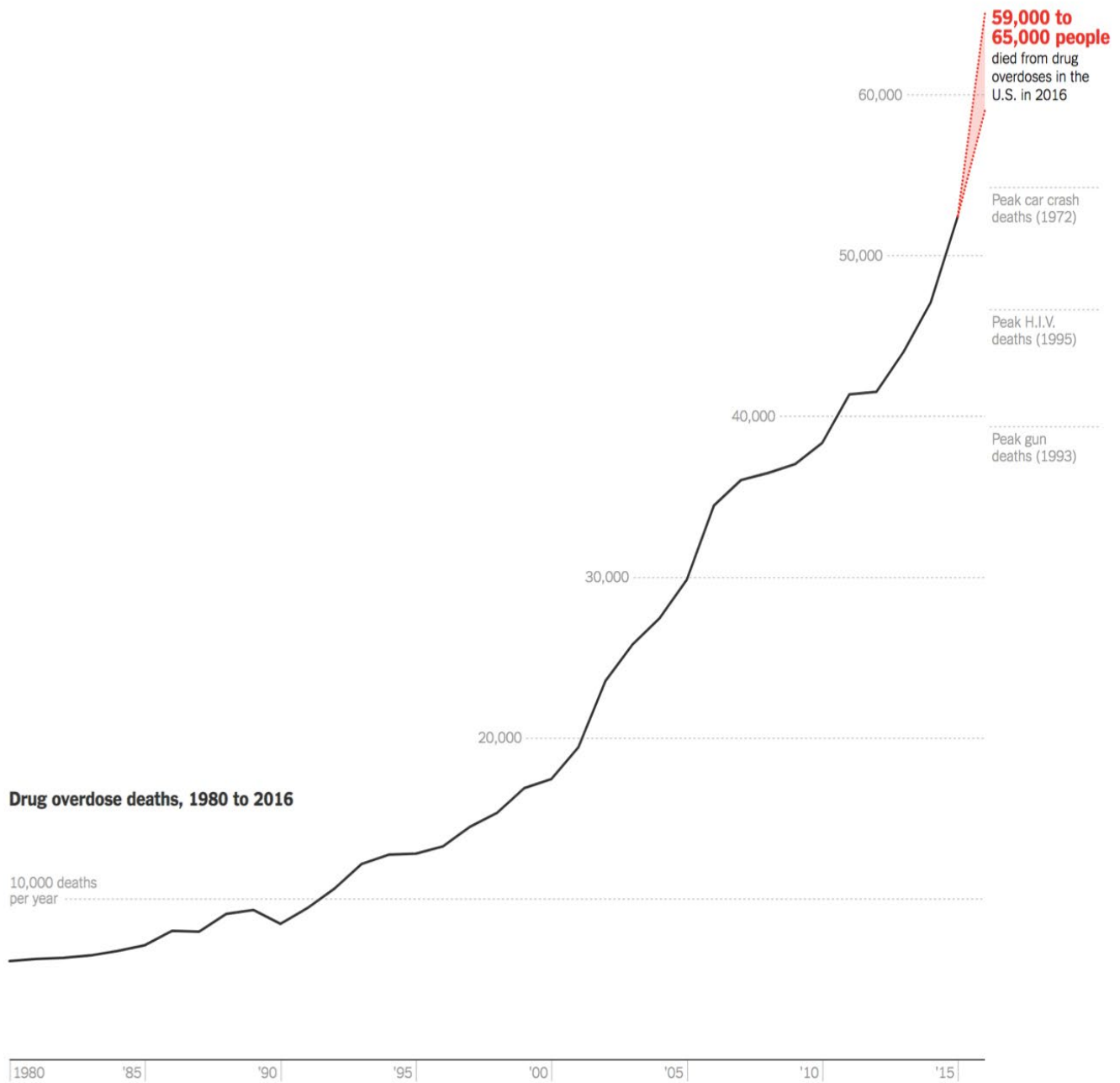
Contact the STR-TA Consortium

✧ To ask questions or submit a technical assistance request:

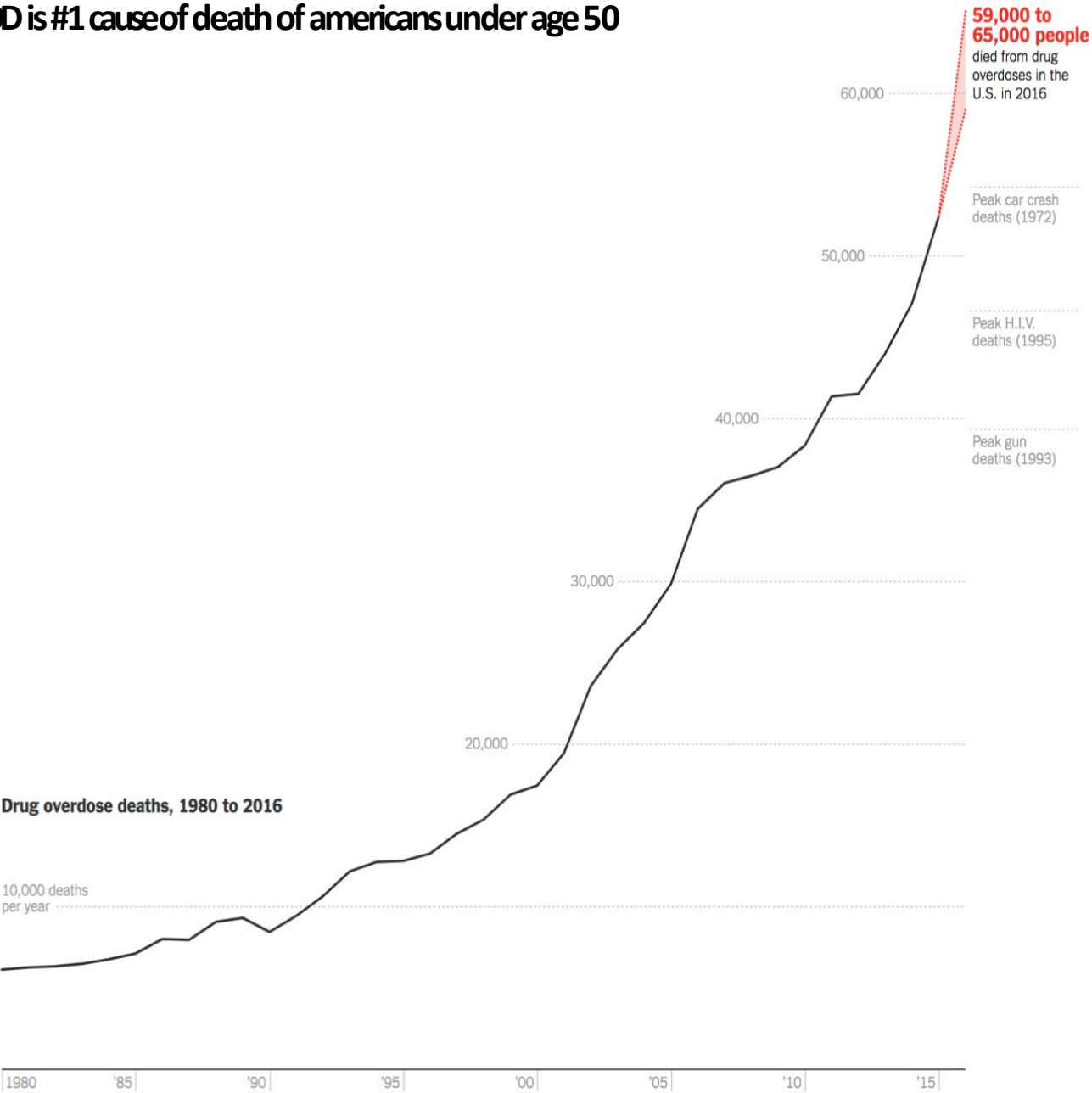
- Visit www.getSTR-TA.org
- Email str-ta@aaap.org
- Call 401-270-5900

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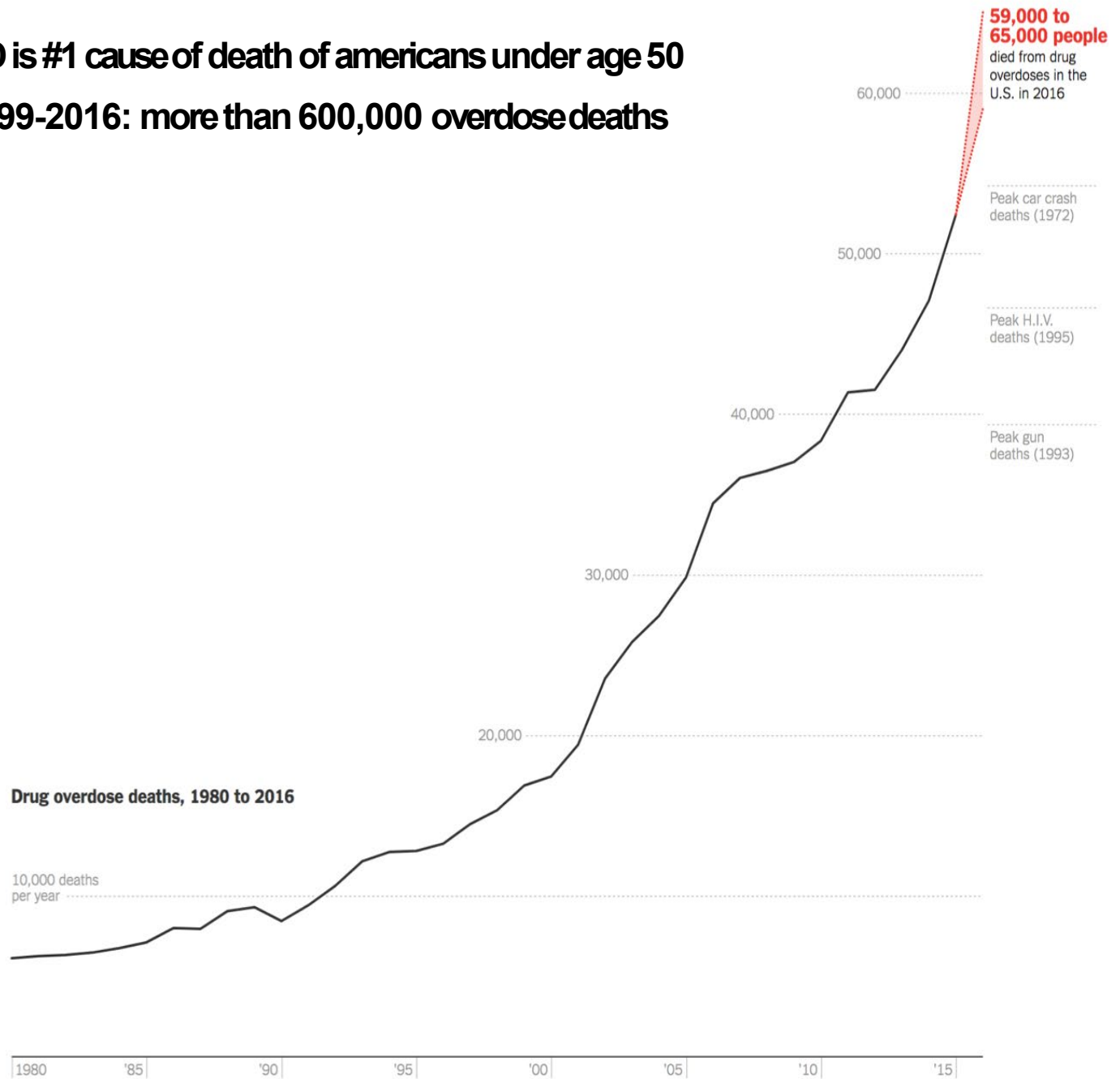


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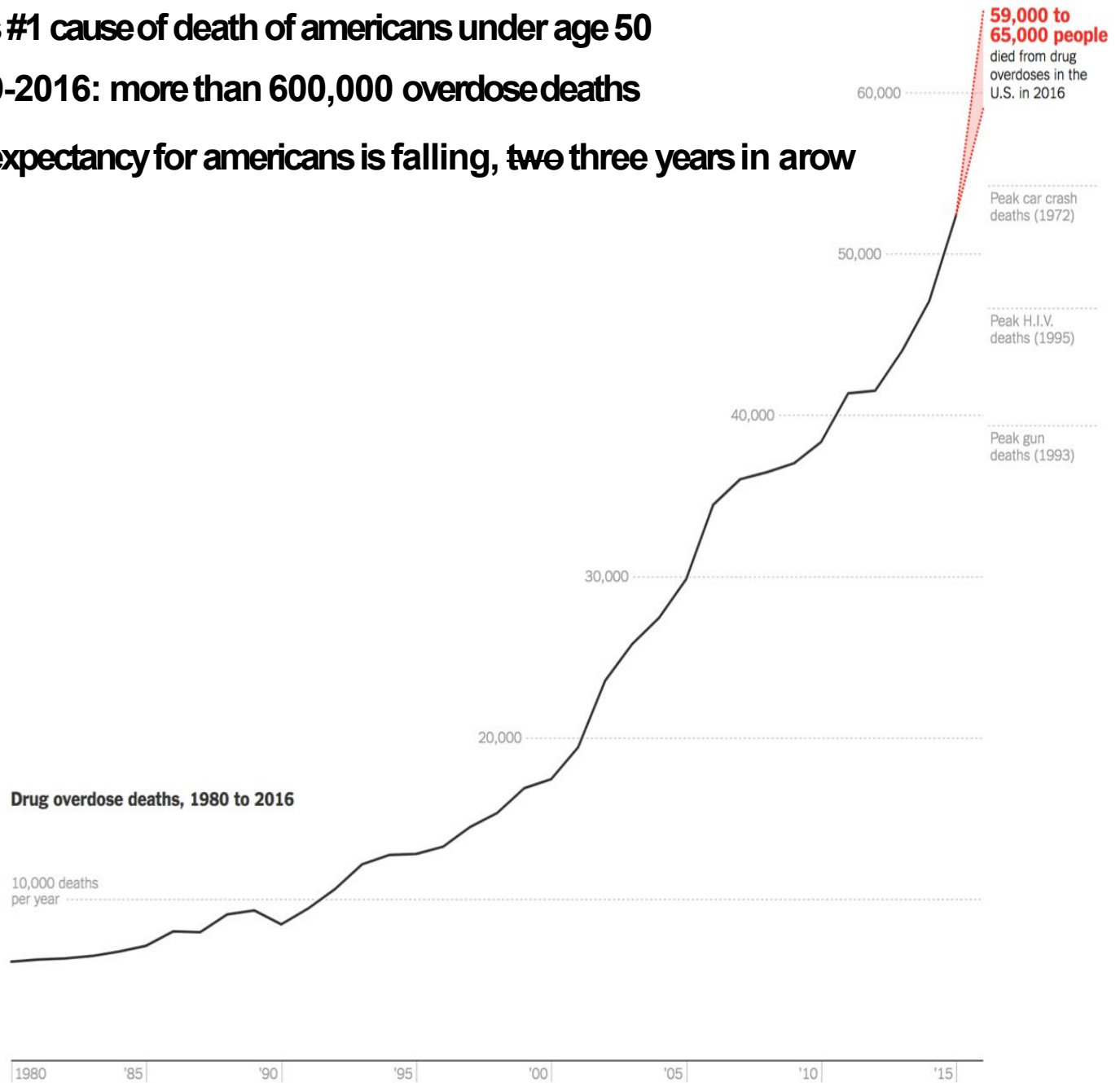
1999-2016: more than 600,000 overdose deaths



OD is #1 cause of death of Americans under age 50

1999-2016: more than 600,000 overdose deaths

life expectancy for Americans is falling, two three years in a row



ED Management of Pain and Misuse During an Epidemic

1. Prevent opioid naïve patients from becoming misusers by your prescription

- Calculate benefit: harm whenever opioid RX considered
- If opioid RX, small number of low dose, lower-risk pills

2. For existing opioid users:

2a. Revealing, willing

“I’m an addict, I need help”

aggressive move to treatment

ED-initiated buprenorphine

arranged specialty follow-up

2b. Revealed, Unwilling

“I overdosed”

Harm reduction, low thresh bupe,

supportive stance, open door

2c. partially revealed

“I have chronic pain and need meds”

avoid opioids in ED or by prescription

opioid alternatives for pain

express concern that opioids are causing harm

2d. unrevealed

“I have acute pain and need meds”

risk stratify with red & yellow flags

PMDP-move positives to willingness



MAT: Medication Assisted
Treatment is the best
treatment for opioid
addiction



MAT: medication assisted treatment is best treatment for opioid addiction

MOUD-Medications for Opioid Use Disorder

OAT: opioid agonist treatment

OST: opioid substitution treatment is **the** treatment for opioid addiction



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Abstinence **does not work**



Abstinence **does not work** for opioid
addiction

Detox **does not work**

Rehab **does not work**

12-step **does not work**

NA **does not work**

Counseling **does not work**



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27% relapse on day of discharge from rehab

65% relapse at one month

90% relapse at one year



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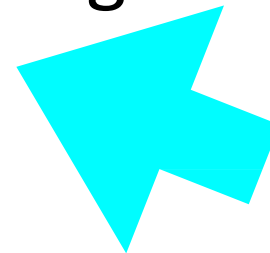
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**Very
Dangerous**



abstinence.
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for opioid addiction.



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MAT

Naltrexone

Methadone

Buprenorphine



MAT: Medication Assisted Treatment

Naltrexone

monthly depot opioid
antagonist



MAT: medication assisted treatment

Naltrexone

monthly depot opioid antagonist
abstinence therapy



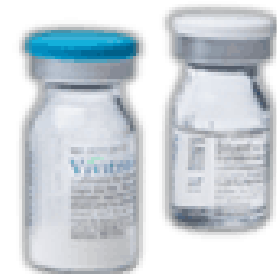
MAT: medication assisted treatment

Naltrexone

monthly depot opioid antagonist

abstinence therapy

withdrawal



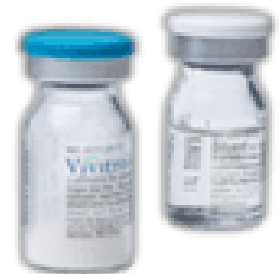
MAT: medication assisted treatment

Naltrexone

monthly depot opioid antagonist
abstinence therapy

Withdrawal

cravings



MAT: Medication Assisted Treatment

methadone



MAT: medication assisted treatment

methadone

**long-acting full
opioid agonist**



MAT: medication assisted treatment

methadone

long-acting full opioid agonist

effective but abuse-prone and dangerous



MAT: medication assisted treatment

methadone

- **long-acting full opioid agonist**
- **Increased risk of OD with dose adjustments in first month**
- **daily engagement sometimes a plus but usually a minus**



MAT: Medication Assisted Treatment

buprenorphine



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buprenorphine

partial opioid agonist

ceiling effect: much safer, less euphoriant



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less abuse-prone and blocks more abuse-prone opioids



MAT: medication assisted treatment

buprenorphine

- ✧ Partial opioid agonist
 - Maintains tolerance and blocks relapse to full agonist
 - Ceiling effect, much safer, less euphoriant
- ✧ Higher receptor affinity than almost any other opioid
 - Will precipitate withdrawal if not in withdrawal
 - Some patients require daily dosing/observed dosing to ensure adherence
- ✧ Less abuse prone and blocks more abuse prone opiates
 - It can be prescribed in general outpatient settings so it is more flexible than methadone
 - Ceiling effect, much safer, less euphoriant
 - Bup is uniquely suited to treat opioid addiction: less dangerous, less abuse prone vs. methadone, more likely to abolish craving, protects users from OD by more dangerous opioids



MAT: medication assisted treatment

buprenorphine



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buprenorphine

buprenorphine + naloxone = Suboxone
naloxone additive is inert unless injected
naloxone component only prevents IV abuse



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slow acting & long-acting

reduces abuse potential

+ceiling effect = long dosing intervals



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everyone can use buprenorphine to treat withdrawal but an X-waiver is required to administer for addiction



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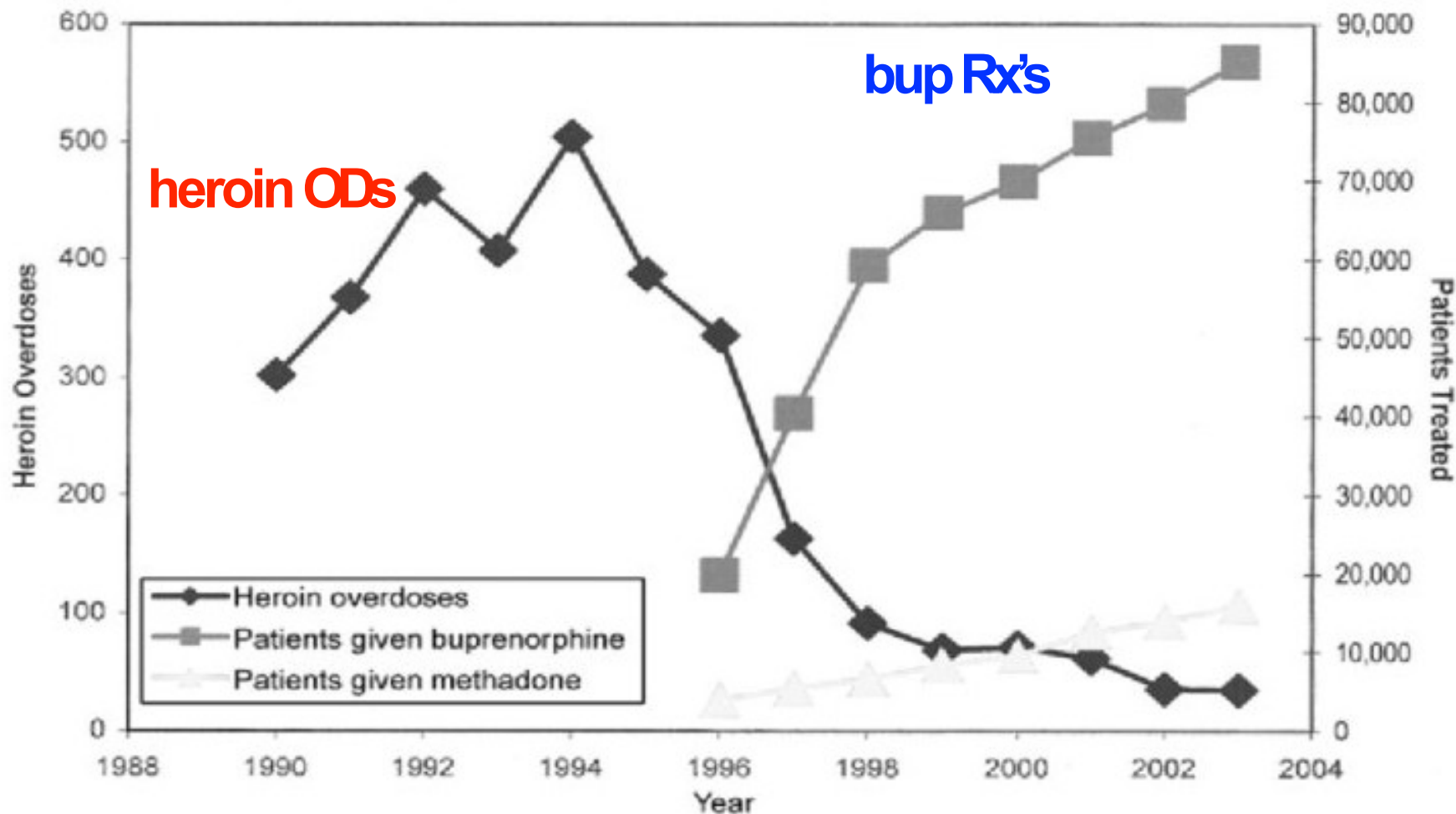
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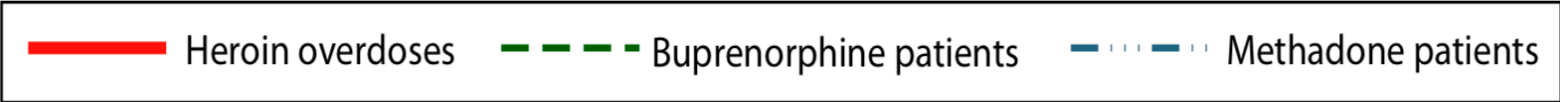
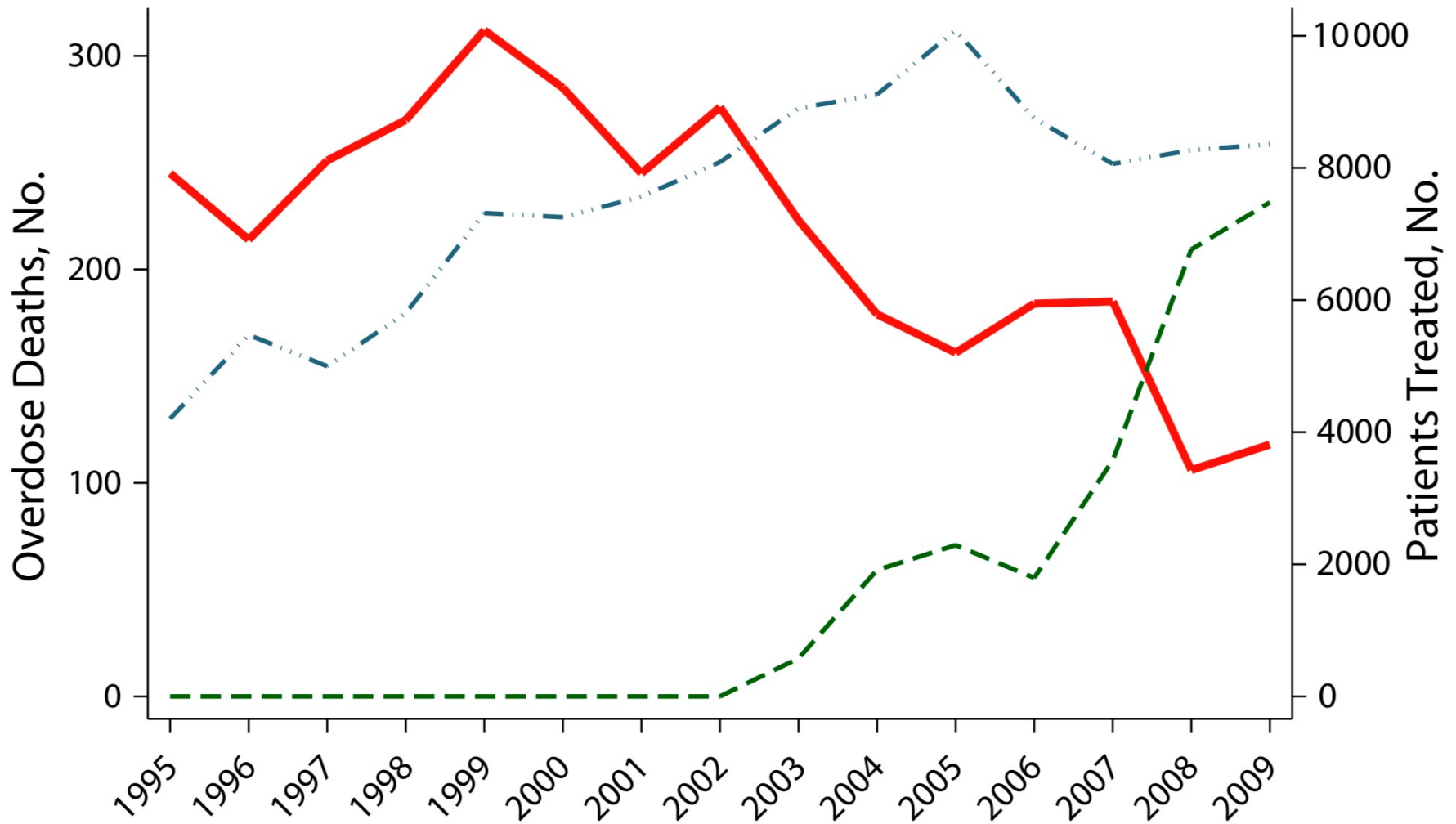


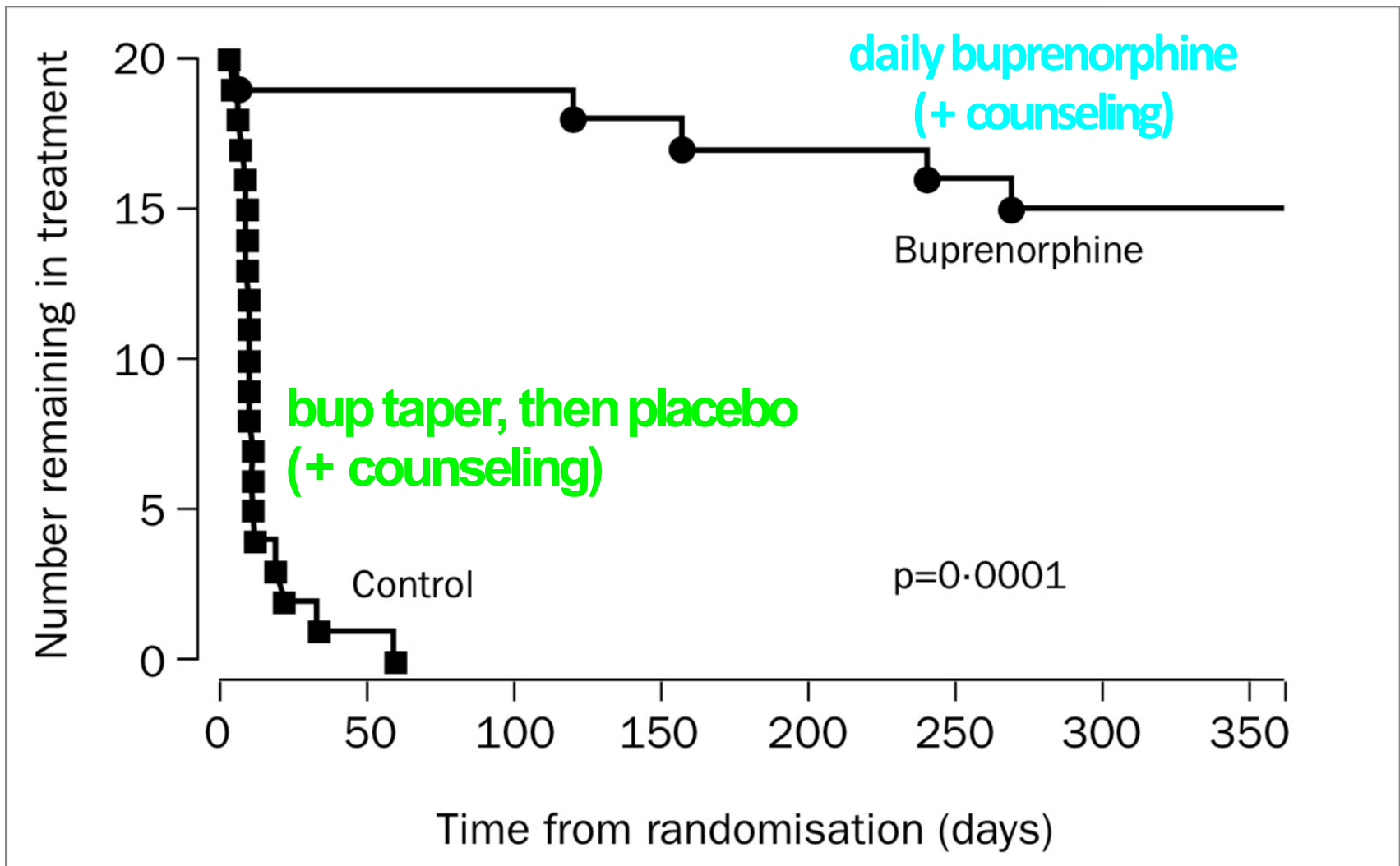
ACEP X-Waiver course for emergency docs

In 1996, France responded to its heroin overdose epidemic by training/licensing GP's to prescribe buprenorphine



Heroin overdose deaths and opioid agonist treatment Baltimore, MD, 1995–2009





1-year retention in treatment was 75% and 0% in the buprenorphine and placebo groups





Cochrane
Library

Cochrane Database of Systematic Reviews

Psychosocial combined with agonist maintenance treatments versus agonist maintenance treatments alone for treatment of opioid dependence (Review)

Amato L, Minozzi S, Davoli M, Vecchi S

“adding any psychosocial support to standard maintenance treatments does not add additional benefits.”



everyone needs a
therapist, but an
opioid addict needs an
opioid agonist



opioid addiction

prescribed
opioid agonist

desperate need to avoid withdrawal
constant debilitating cravings
perpetual cycling of highs/lows

normal functioning impossible

acquisition harms: poverty, crime, frantic behavior

injection harms: local infections, HIV/Hep C, endocarditis

street drug harms: accidental overdose/death

opioid dependence

scheduled opioid consumption
freedom from addiction harms

normal life possible



Detox Facilities

Medical Detox Facilities (may have rehab also)

Metropolitan Hospital
 1900 2nd Ave.
 212-423-6822 (clinic); x7312 (PER); x7117 (beds)
 Population: M/F >18
 Hours: 24 hours thru ER
 Services: Inpatient 14-bed detox; avg 14 day stay.
 May place in Metro Clinic Rehab after detox.
 Payment: all insurance and self-pay
 Transport: 96th St. subway stop
 ID: preferred, but not required

North General
 Madison Ave. (121st and 122nd)
 212-423-1330 (Mark Gauntlet)/4318/4404
 Population: M/F >18. No woman past 1st trimester.
 Hours: MWThF 8am-10pm; Tu 8am-4pm; Sat 10am-6pm. Other times thru ER.
 Services: Inpatient detox 4-5 days.
 Payment: all insurance and self-pay
 Transport: facility may send a van
 ID: if no MCD-Birth Certificate, Driver License, Rent/Utility bill, pay stub, or meal card if in shelter

Harlem Hospital
 22-44 W. 137th St. (Lenox and 5th). ER at 136th & 5th.
 212-939-1083/8102/3328 (ER). 939-3033 DTP/rehab
 Population: M/F >18
 Hours: screening 8am-3pm. ER other hours.
 Services: Inpatient detox 3-10 days. No cocaine or crack unless medical prob (pregnant, HIV, etc.). Also have extensive rehab and DTP (any substances).
 Payment: all insurance and self-pay
 Transport: 2 or 3 train to 135th
 ID: preferred, but not required

St. Vincent's Midtown *St 9th/10th*
 415 W. 54th between 9th and 10th
 212-459-8103
 Population: M/F >18
 Hours: M-F 8:30-5:30, call first
 Services: Inpatient detox about 4 days length
 Payment: all insurance and self-pay (before 2pm)
 Transport: C, E, 1, 9 trains
 ID: if no ID need Support Letter from shelter

A.C.I. www.acihealthgroup.com
 500 W. 57th St. at 10th Ave.; NY, NY 10019
 1-800-724-4444; 212-293-3000; 212-378-4545
 Population: M/F >18
 Hours: 7 days a week, call for hours daily
 Services: Inpatient and outpatient detox and rehab.
 Payment: all insurance including MCD. Patients must be able to pay as there is no sliding scale at this private facility.
 Transport: subway
 ID: required

Beth Israel Medical Center
 15th Street (1st and 2nd Ave.); Bernstein Pavilion, 1st fl
 212-420-4220/4270
 Population: M/F >18
 Hours: M-F 7am-5pm, S-Su 9am-5pm; after 5pm thru ER
 Services: Inpatient and outpatient detox, 7-10 days.
 Inpatient (28-day) and outpatient rehab.
 Payment: all insurance and self-pay
 Transport: may be able to assist 212-420-4270 (Reggie Schwartz)
 ID: required

Coney Island Hospital
 2601 Ocean Parkway; Brooklyn, NY 11235
 718-616-5500
 Population: M/F >18
 Hours: admitting 8am-2pm
 Services: Inpatient detox at hospital and outpatient rehab at outside clinic. No smoking.
 Payment: all insurance and self-pay
 Transport: D train to Brighton Beach; F to Ave. X
 ID: required

Medical Arts/Cornerstone
 57 W. 57th Street at 6th Ave.
 212-755-0200
 Population: M/F >18
 Hours: 8am-8pm
 Services: Inpatient detox up to 7 days. Inpatient 7-30 day rehab.
 Payment: all private insurance. Take Medicaid or self-pay only if alcohol related.
 Transport: facility can send a van to pick-up patient
 ID: required, if homeless need shelter or pic ID



“A great part of the tragedy of this opioid crisis is that, unlike in previous such crises America has seen, we now possess effective treatment strategies that could address it and save many lives, yet tens of thousands of people die each year because they have not received these treatments.”



Discharging a person addicted to
opioids who is in withdrawal
more dangerous than any
discharge we would ever
consider in any other context



“The history of medicine is, in part, the history of physicians stretching the scope of their practice to answer the pressing needs of their times.”

Rapoport & Rowley, *NEJM*, 2017



I need help

I'm dope sick

I overdosed

I have fevers

I have cellulitis

I have pneumonia

I was assaulted

I was arrested

I was in jail

I'm selling sex and have an STI

I'm homeless and cold

**emergency department is where
these patients are**



buprenorphine initiation in the ED : **the warm handoff**



buprenorphine initiation in the ED: **the warm handoff**

1 patient with opioid use disorder
is in withdrawal (**COWS** \geq 8)



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2 buprenorphine initiation
4-8 mg SL in the ED
x-waiver not required



buprenorphine initiation in the ED: the warm handoff

1 patient with opioid use disorder
is in withdrawal (COWS \geq 8)

2 buprenorphine initiation
4-8 mg SL in the ED
x-waiver not required

3 refer to long term addiction care
with or without buprenorphine Rx



buprenorphine initiation in the ED: the warm handoff

the future: high dose bup initiation

high dose is likely (but not certainly) safe



buprenorphine initiation in the ED: the warm handoff

- ✧ the future: high dose bup initiation
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- ✧ the prescription is a potential problem for EM
 - requires x-waiver



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 - ✧ concerns around suboxone abuse
 - ✧ if no Rx and delay to f/u, return to the ED -72hr rule



buprenorphine initiation in the ED: the warm hand off

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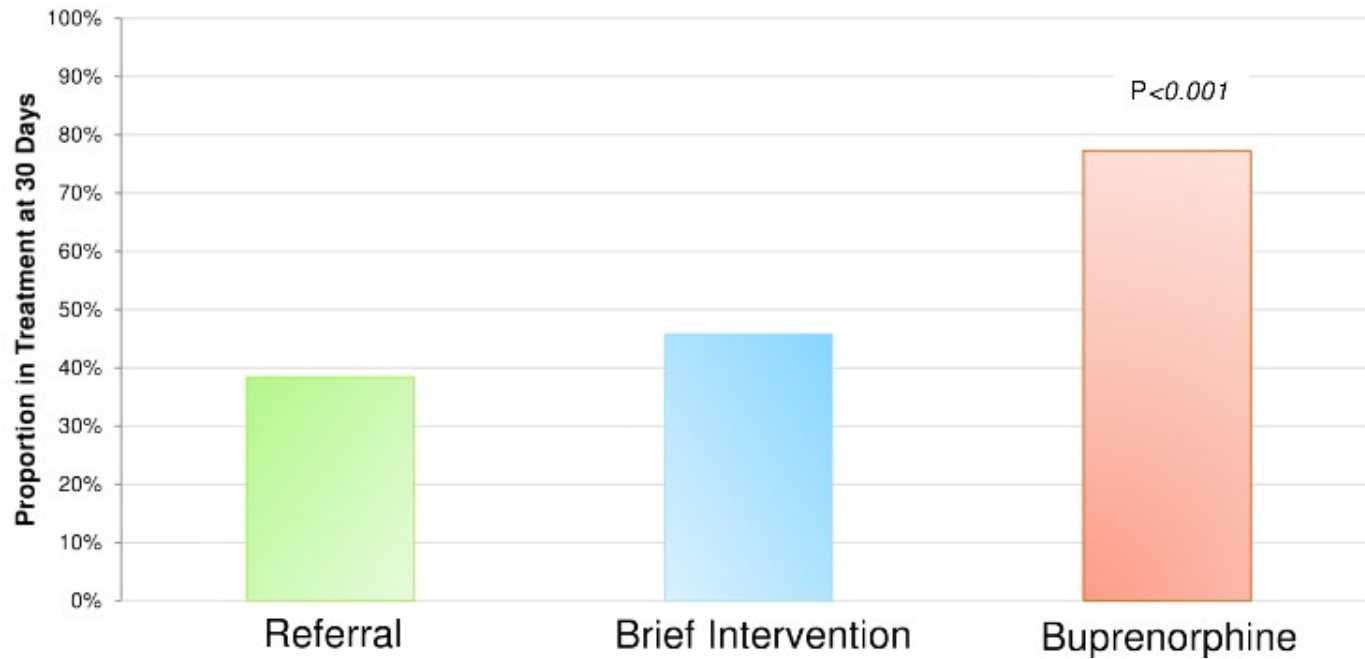
requires x-waiver

if no Rx and delay to f/u, return to the ED- 72h rule

16 mg SL on days #2, #3



Engaged in Treatment at 30-Days



The background of the purple box features a faint, circular seal of the U.S. Department of Health and Human Services. The seal contains the text "DEPARTMENT OF HEALTH AND HUMAN SERVICES" around the top and "1798" at the bottom, with a central emblem.

FACING ADDICTION IN AMERICA

*The Surgeon General's Report on
Alcohol, Drugs, and Health*

**Buprenorphine treatment for opioid misuse should
be available in emergency departments.**



we don't want to be a suboxone clinic / suboxone abuse

EDs that have started bup programs have not seen significant bup abuse
bup is not nearly as abuse prone as full agonists
patient visits may **decrease** - these patients are coming to the ED anyway
non-prescribed bup exposure potentiates successful treatment
OD is basically safe (though not entirely)
even diversion may not be a bad thing, in an era of super fentanyl
high dose bup initiation: prescription less important



LOW THRESHOLD BUPRENORPHINE

I need help I'm dope sick I overdosed I have fevers I have cellulitis
I have pneumonia I'm selling sex and have an STI I'm homeless and cold

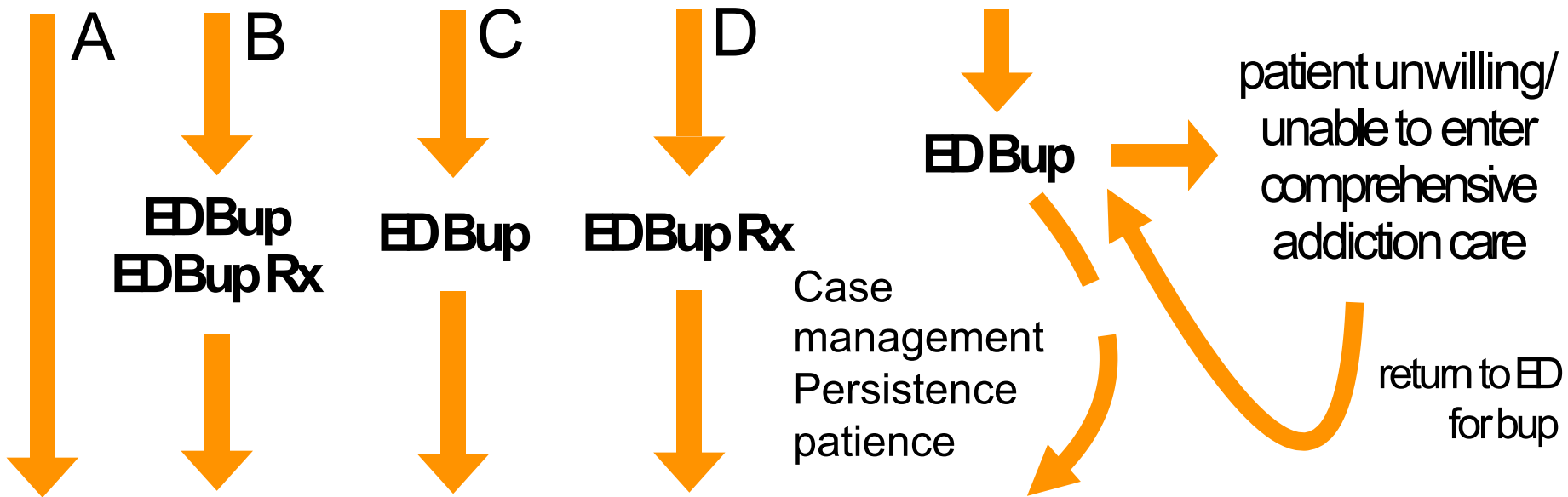
Opioid Use Disorder patient presents to the ED



take home naloxone
HIV, Hep C screening

Harm Reduction

referral to needle exchange
discuss safe drug use practices



Comprehensive Addiction Care



OUD ED Scenarios

Active withdrawal (did not receive naloxone)

Opioid intoxicated

Sober (not intoxicated, not in withdrawal, but will be)

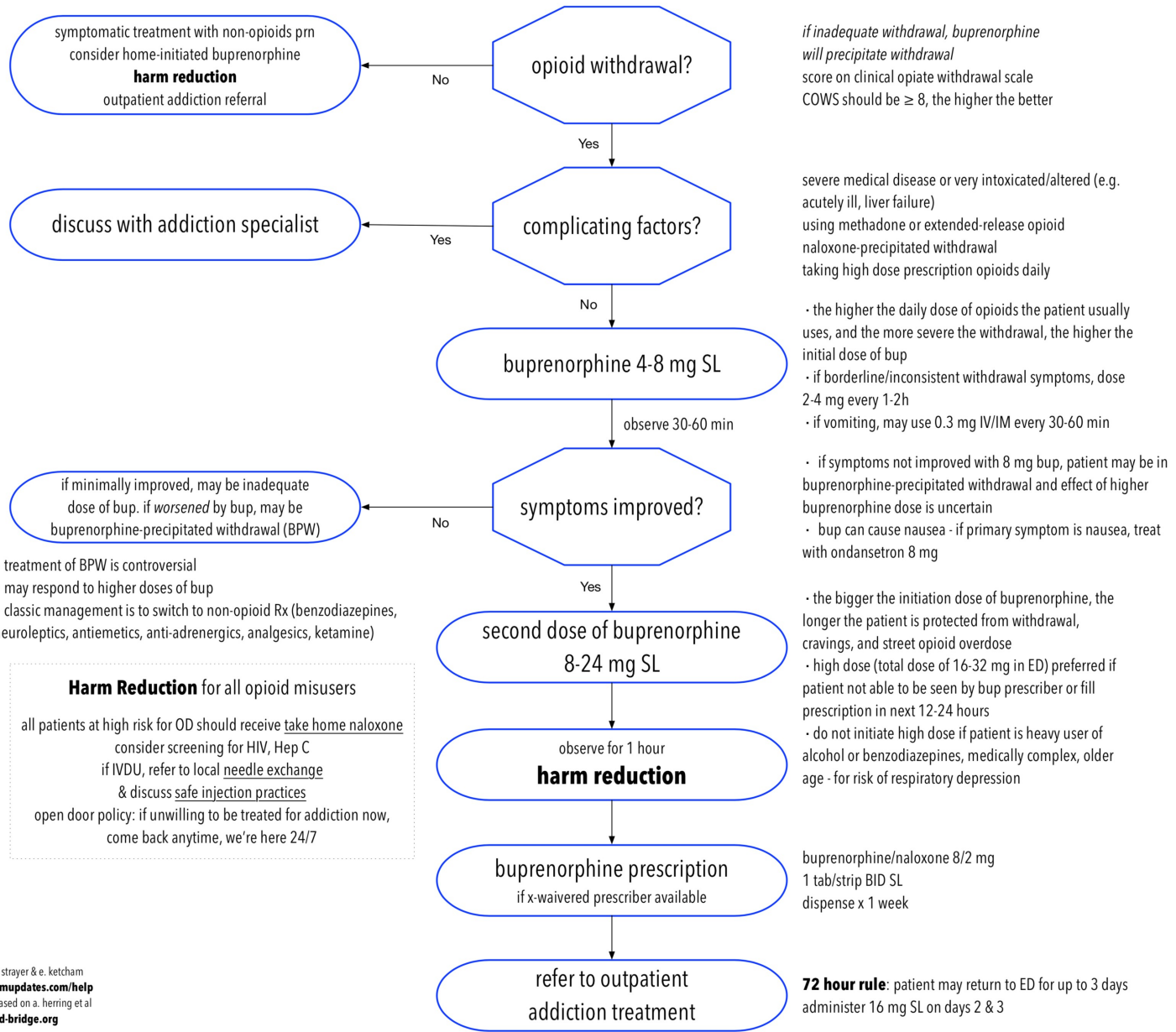
“Detoxed” (withdrawal symptoms over)

Naloxone-precipitated withdrawal

Patient declines bup

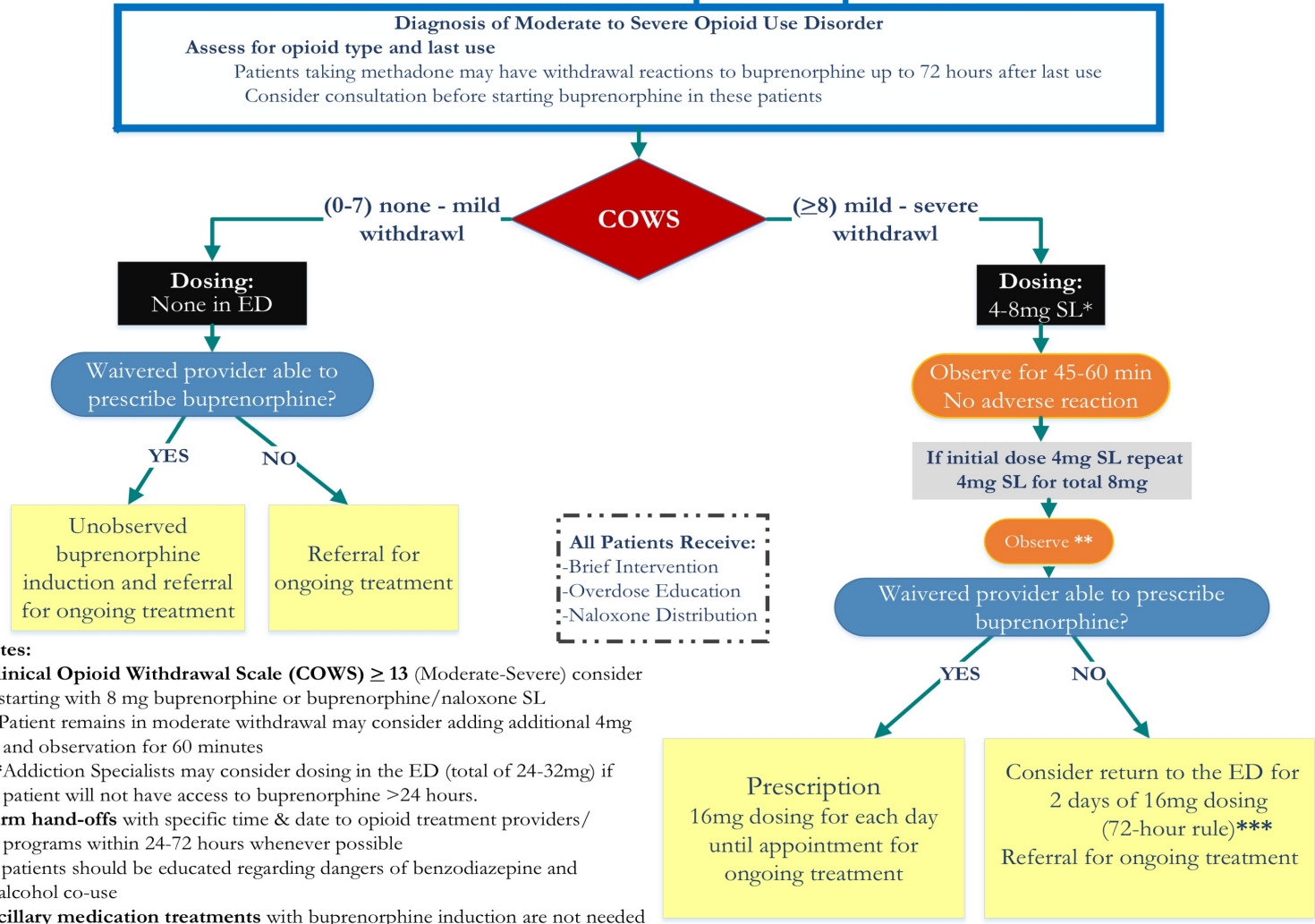


Emergency Department Initiation of Buprenorphine for Opioid Use Disorder

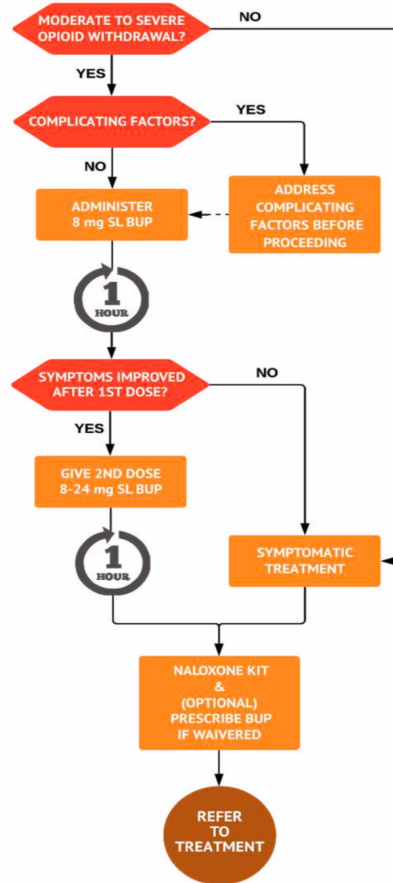


Yale (D'Onofrio) ED IB Protocol

ED-Initiated Buprenorphine



Highland (Herring) ED IB Protocol



MODERATE TO SEVERE OPIOID WITHDRAWAL

- Use clinical judgement to determine moderate to severe withdrawal.
- If uncertain, use the Clinical Opioid Withdrawal Scale (COWS)
- If using COWS, the score should be ≥ 8 or ≥ 6 with at least one objective sign of withdrawal
- Document: which opioid used, time of last use

COMPLICATING FACTORS

Identify and manage complicating factors prior to proceeding. The only absolute contraindication is allergy to buprenorphine. Refer to Buprenorphine Guide before dosing buprenorphine for:

- Clinical suspicion of acute liver failure
- ≥ 20 weeks pregnant
- Intoxicated or altered
- Withdrawal precipitated by naloxone
- Taking methadone or long acting opioid
- Chronic pain patients taking prescribed opioids
- Withdrawal symptoms are inconsistent or borderline (COWS of 6-8), or opioid use within 12 hours; consider beginning with a low dose (2-4 mg SL) and titrating every 1-2 hours

PARENTERAL DOSING

- Use if unable to take sublingual (SL)
- Start with 0.3 mg IV/IM buprenorphine; may repeat as needed; switch to SL when tolerated

PRECIPITATED WITHDRAWAL

- Buprenorphine can cause precipitated withdrawal if too large a dose is given too soon after the last opioid use
- The longer the time since last opioid use (> 24 hours) and the more severe the withdrawal symptoms (COWS ≥ 13) the better the response to initial dosing
- Only patients with objective improvement in withdrawal after the 1st dose should receive subsequent dosing
- Worsening after buprenorphine is likely precipitated withdrawal; no further buprenorphine should be administered in the ED; switch to symptomatic treatment

SYMPTOMATIC TREATMENT

- Supportive medications such as clonidine, gabapentin, metoclopramide, low-dose ketamine, acetaminophen, NSAIDs

LOWER TOTAL DOSE OPTION (16 mg)

- Possible lower risk of sedation or precipitated withdrawal
- Some patients will go back into withdrawal in less than 12 hours increasing risk of early dropout.
- Buprenorphine prescription or next day follow-up should be available

HIGHER TOTAL DOSE OPTION (24-32 mg)

- Increased magnitude and duration of opioid blockade
- More complete treatment of withdrawal in heavy users
- May suppress craving and protect against overdose (opioid blockade) for 2 days or more
- Use with caution in medically complex patients, older patients, and patients using other sedatives such as alcohol or benzodiazepines

RE-EVALUATION TIME INTERVALS

- The time to SL buprenorphine onset is typically 15 minutes and peak clinical effect is typically within 1 hour
- Re-evaluate patient 1 hour after buprenorphine doses
- Observe for 1 hour after the final dose before discharge

DEA 72 HOUR RULE

- Patients may return to the ED for up to 3 days in a row for repeat doses
- At each visit administer 16 mg SL buprenorphine

FOLLOW-UP

- Goal: follow-up treatment available within 3 days



THE TREATMENT GAP

This E.R. Treats Opioid Addiction on Demand. That's Very Rare.

Some hospital emergency departments are giving people medicine for withdrawal, plugging a hole in a system that too often fails to provide immediate treatment.

Vox



Christina Animashaun/Vox

Despite an opioid crisis, most ERs don't offer addiction treatment. California is changing that.

This is what it looks like when we stop treating addiction as a moral failure.

By German Lopez | @germanlopez | german.lopez@vox.com | Updated Jan 8, 2019, 11:25am EST



Too many overdoses: ERs fight drugs with drugs amid opioid crisis

Lilly Price, USA TODAY Published 7:38 p.m. ET Jan. 3, 2019 | Updated 9:31 a.m. ET Jan. 4, 2019



The opioid crisis in the United States continues to take center stage as the National Institute on Drug Abuse says more than 115 people die of an opioid overdose every day. Buzz60



(Photo: DNY59, Getty Images/iStockphoto)

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MADISON, Wis. — It happens every day: Emergency clinicians administer life-saving care to patients suffering from opioid overdoses.

Now physicians, counselors and agencies in Wisconsin are considering anti-addiction drugs as a first response in emergency rooms. Most emergency clinicians want to expand such medication-assisted treatment (or MAT), according to Wisconsin's chapter of American College of Emergency Physicians.

"It weighs on you driving home after a night shift and someone didn't make it, knowing society could have intervened and helped," said Bobby Redwood, an emergency and preventive medicine physician.

Medication-assisted treatment is a [proven method](#) for successfully treating substance abuse disorders by combining anti-craving medicines such as buprenorphine or methadone with supportive counseling and behavioral therapy.



Maimonides EDOpioid Misuse Treatment Map

in withdrawal
desires treatment for opioid addiction

exclusions from ED buprenorphine initiation
on methadone
on high dose (usually prescribed) opioids
very intoxicated (with other substances)
buprenorphine allergy

verifying adequate withdrawal is crucial
if inadequate withdrawal, buprenorphine will precipitate withdrawal

plug COMS into mdcaboryour favorite resource COMS should be ≥ 8, the higher the better

you do not need to be waived to treat withdrawal with buprenorphine in the ED

buprenorphine 4-8 mg sublingual
the higher the COMS, the larger the bup dose
if unsure of withdrawal symptoms or borderline COMS dose 2 mg q2h

observe in ED for 30-60 minutes
provide sandwich

optional testing during buprenorphine initiation
HCG, urine tox, BAL, LFTs, Hep C, HIV

if waived doc present, can d/c with prescription

if expected delay in accessing buprenorphine (≥24h), consider high dose initiation in consultation with addiction specialist

advise on dangers of etoh/benzo use while on bup

refer to HCC
the smaller the ED buprenorphine dose, the tighter the followup has to be, esp if no Rx

buprenorphine Rx
buprenorphine/naloxone 8/2 mg sublingual tabs 1 tab Sbid - can dispense 6 to 14 tabs

if concern for suboxone abuse/diversion, can skip Rior ↓ Rx (though suboxone safer than street opioids)

in withdrawal
does not desire treatment

consider buprenorphine initiation anyway
alternative: methadone 10 mg IM/PO
can use non-opioid Rx but much less effective
clonidine, NSAID, antiemetic, antidiarrheal
haloperidol, ketamine

refer to HCC or alternative addiction center

harm reduction (see box)

Harm Reduction for all opioid misusers

all patients at high risk for OD should receive take home naloxone: REAY program

call 212 POISON request a Wellness Advocate be dispatched to the ED
if MDU refer to local needle exchange [<http://duha.org/hvc-sep-map>] and encourage safe injection practices
Do you lick your needles?
Do you cut your heroin with sterile water?
Do you discard your cotton after every use?
Do you inject with other people around?
Do you do a test shot to make sure a new batch isn't too strong?
open door policy: if unwilling to be treated for addiction now,

HealthCare Choices (HCC) Clinic Referral
Text/Call Jose Vazquez 347.423.7444 (not overnight)
if overnight, can hold patient until morning to speak with Jose or discharge patient with clinic information and email Jose with patient's info and best phone number
jvazquez@healthcarechoicesny.org

HealthCare Choices Clinic
6209 16th Ave, Brooklyn 11204
(718) 234-0073
healthcarechoicesny.org

alternatively, patient can return to ED while awaiting followup: on days 2 and 3 dose 16 mg Sx - waiver not required to dose in ED on days 2 & 3 however cannot continue beyond 3 days by law

These x-waivered attendings will Rx Buprenorphine for you: Bogoch, Koch, Lin, Marshal, Mathew, Mubov, Pickens, Strayer, Wood

not in withdrawal
desires treatment for opioid addiction

if waived doc present, can prescribe buprenorphine for home initiation

alternatives:
return to ED when withdrawing
hold in ED to await withdrawal

refer to HCC

not in withdrawal
does not desire treatment

engage, encourage to move to treatment

refer to HCC or alternative

if Jose not available, you can make appt yourself using clinic # or engage Marilyn Hodge (718) 234-0073 x26007

if you have any questions/ concerns/not sure how to proceed with a patient
text strayer 610.308.0022



Future Directions

Long-acting bup

Patch

Implantable wafer (6 months)

CAM2038 (weekly SQ depot)

Bup for acute pain

Long acting, safe, abuse liability vs. alternatives



future directions

bup microdosing



PHS Health Clinic

@PHS_PrimaryCare

Follow



Replying to [@DocVan_Nostrand](#) [@tdbrothers](#) and 11 others

We love micro-dosing at our clinic! we have pre-packaged blister packs for a 7 day bup titration that we give out as a carry for the patient to dose it all at home. Patients can go from methadone, SROM or from illicit use, to a smooth bup start with no withdrawal.

PHS Health Clinic @PHS_PrimaryCare · Nov 4

Day 1 = 0.5mg

2 = 0.5mg BID

3 = 1mg BID

4 = 2mg BID

5 = 3mg BID

6 = 4mg BID

7 = 12mg

I tell patients it's like walking into the ocean: you go a little at a time to adjust to the temp, rather than plunging right in. Once you're in the water you feel great.



lots still to workout

optimal dosing strategy

labs/observation/psychiatry

who/how many providers need

to be x-waivered

how to deal with precipitated

withdrawal

bup for post-naloxone OD patients

managing willing patients not in withdrawal (home initiation)



f



emupdates@gmail.com

To register for NYC DOHMH sponsored waiver trainings, contact:
buprenorphine@health.nyc.gov

free online DATA 2000 X Waiver course:

<https://learning.pcssnow.org/p/onlinematwaiver>

<https://pcssnow.org/education-training/mat-training/mattraining-events>

<https://www.asam.org/education/live-online-cme/buprenorphine-course>

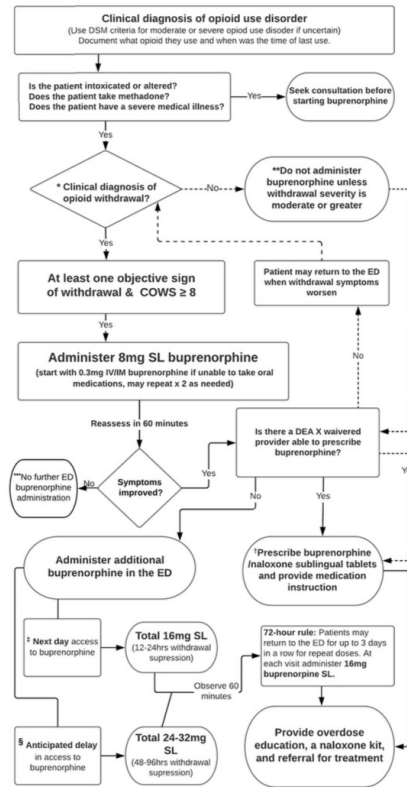


Emergency Department Initiation of Buprenorphine With a Loading Dose

* Andrew A Herring, MD, Eben Clattenburg MD, Mac Chamberlin MD, Mari Nomura MD, Martha Montgomery MD, Cody Schultz MD

Background: The opioid crisis has led to calls for emergency departments (EDs) to provide access to medication assisted treatment (MAT) for opioid use disorder (OUD) with buprenorphine (BUP). Most ED providers do not have DEA authority to prescribe BUP for OUD and those that do may be reluctant to prescribe due to concerns for diversion. Because same day access to outpatient treatment is often not available, there is a need to implement strategies to suppress opioid withdrawal for at least 72 hours after ED discharge. The effect of a standard 8mg SL BUP dose may wane after as little as 4 hours. The ceiling effect and long half-life of BUP offer an elegant solution. Previous clinical studies have found a 32mg sublingual (SL) BUP dose is well-tolerated and provides 72 hour suppression of opioid withdrawal symptoms. ED BUP loading for OUD has not previously been described. Herein we describe our initial cohort of patients initiated onto BUP with a loading dose of 32mg SL.

Methods: We performed a retrospective review of all patients who were administered buprenorphine for the treatment of opioid withdrawal in a single urban emergency department between July 1st and December 15th, 2017. Patients treated for the indication of pain were excluded. ED visit characteristics including total buprenorphine dose, patient sex and age, length of stay, chief complaint, vital signs, incidence of adverse events, and administration of rescue medications were described.



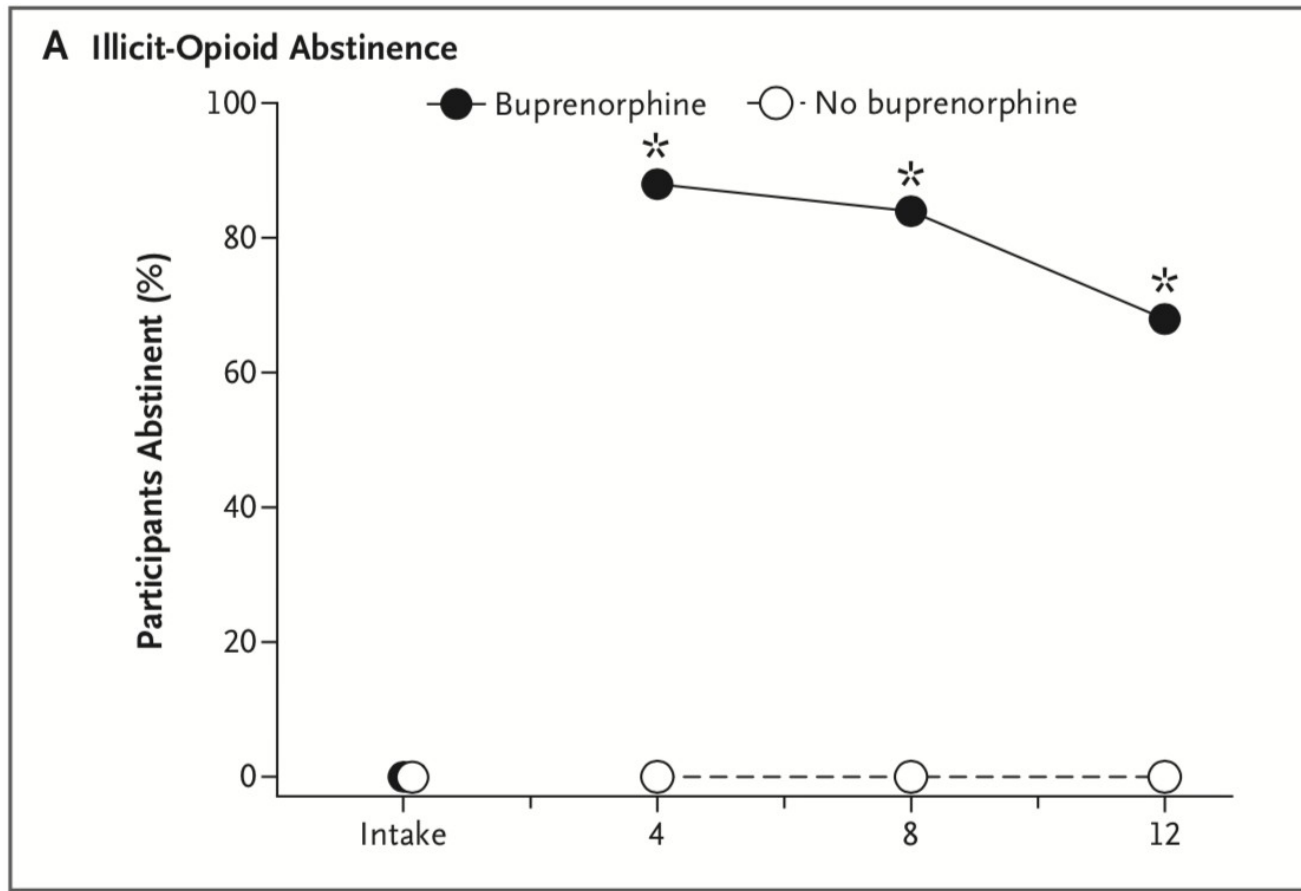
Results: A total of 101 ED patients were treated for opioid withdrawal during the study period with an average of 4.8 buprenorphine treatments per week. There were 12 ED patients who were administered at least 32mg SL buprenorphine. All patients were discharged in good condition. No patient showed clinical signs of opioid toxicity, nor was naloxone administered for any patient. Most of these patients (56%) were seen in a "fast track" area. There were no adverse events including: hypoxia, excessive sedation, hypotension, or hypersensitivity. Most patients were male (77 %) and young (average age 31.5 years). The median length of stay was 221 minutes. All patients were enrolled in a linkage program to ensure access to follow up treatment after discharge.

Conclusion: a BUP loading dose of 32mg SL is well tolerated. Prolonged suppression of withdrawal symptoms after ED discharge may promote successful linkage to long term treatment of opioid use disorder with buprenorphine. Non-waivered emergency providers can provide several days of relief from withdrawal symptoms without need for a prescription of buprenorphine.



Interim Buprenorphine vs. Waiting List for Opioid Dependence

N ENGL J MED 375;25 NEJM.ORG DECEMBER 22, 2016



Case 1 43F presents with request for heroin detox. She has been injecting heroin intravenously for many years; her best friend just died of an overdose and now she wants to “come clean.” Her last heroin use was 3 hours ago; she has no medical or psychiatric complaints.



Case 2 27M presents to your resuscitation zone after being found unresponsive and cyanotic with a heroin needle in his arm. He was bagged by EMS during transport but is now breathing on his own at a rate of 9/minute, saturating well on room air. Minimally responsive to pain.



Case 3 27M presents to your resuscitation zone after being unresponsive and cyanotic with a heroin needle in his arm. He received 2 mg intravenous naloxone by EMS and is now agitated and requests to be discharged.



Case 4

54F with chronic low back pain,
takes 80 mg oxycontin per day,
presents with severe low back pain,
says her home meds aren't working.



Case 5 38M with a history of gastroparesis presents with s abdominal pain, similar to prior episodes of gastroparesis. Denies any daily medications. Reports anaphylactic allergic reactions to acetaminophen, ibuprofen, loperidol, and morphine.

