

# Make MAT Happen

A Clinical Introduction to Medication for Addiction Treatment (MAT) for Opioid Use Disorder (OUD)

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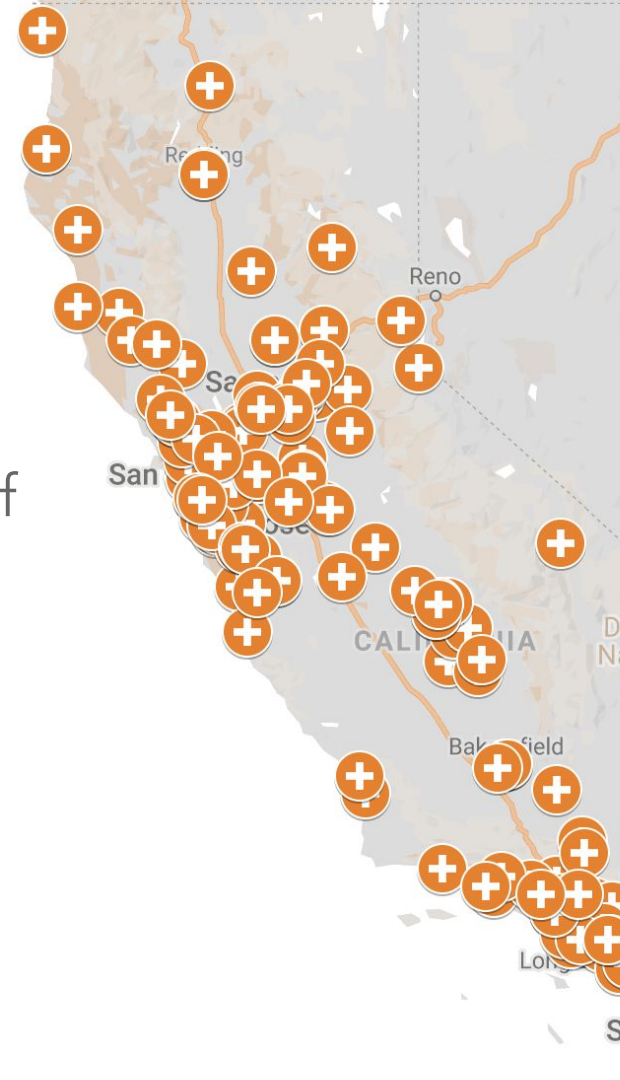


CA Bridge is a program of the Public Health Institute. The Public Health Institute promotes health, well-being and quality of life for people throughout California, across the nation, and around the world.

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Goal: 24-7 access to high quality treatment of substance use disorders in all California hospitals by 2025.



# The Opioid Epidemic



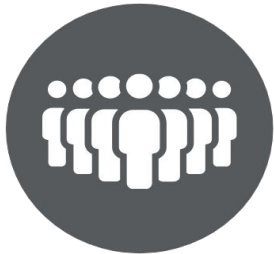
**107,622**

people died from drug overdose during 2021 (1)



**9.3 million**

people misused prescription opioids in 2020 (2)



**2.7 million**

people had an opioid use disorder in 2020 (2)



**902,000**

people used heroin in 2020 (2)

## Sources

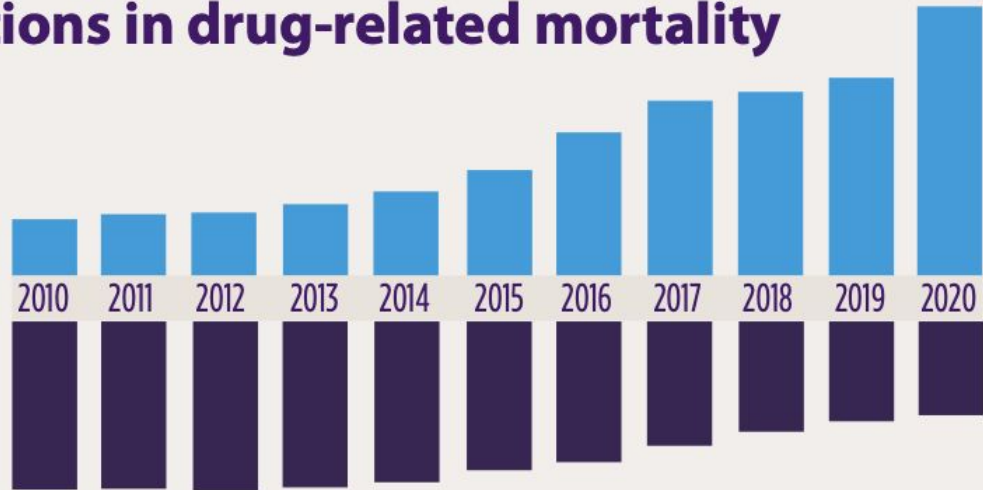
- (1) [Provisional data from CDC, National Center for Health Statistics](#)
- (2) [2020 National Survey on Drug Use and Health, 2021](#)

# As Opioid Prescribing Decreased, Overdose Deaths Increased

## Reductions in opioid prescribing have not led to reductions in drug-related mortality

**Overdose deaths:**  
**94,134\***

**Opioid prescriptions:**  
**143,390,951<sup>1</sup>**  
(44.4% decrease  
since 2011)



\*Provisional data for the 12-month period Jan. 2020–Jan. 2021  
<https://www.cdc.gov/nchs/nvss/vsrr/drug-overdose-data.htm>

CALIFORNIA



# Fentanyl deaths in L.A. County soared 1,280% between 2016 and 2021, report finds



Shannon Knox places photos on a memorial for International Overdose Awareness Day on Aug. 31 outside Los Angeles City Hall. (Irfan Khan / Los Angeles Times)



Addiction is NOT a moral failing.

**It is a chronic disease that  
requires medical treatment.**



# CA Bridge Model

## Revolutionizing the System of Care



Low-Barrier Treatment



Connection to Care  
and Community



Culture  
of Harm Reduction



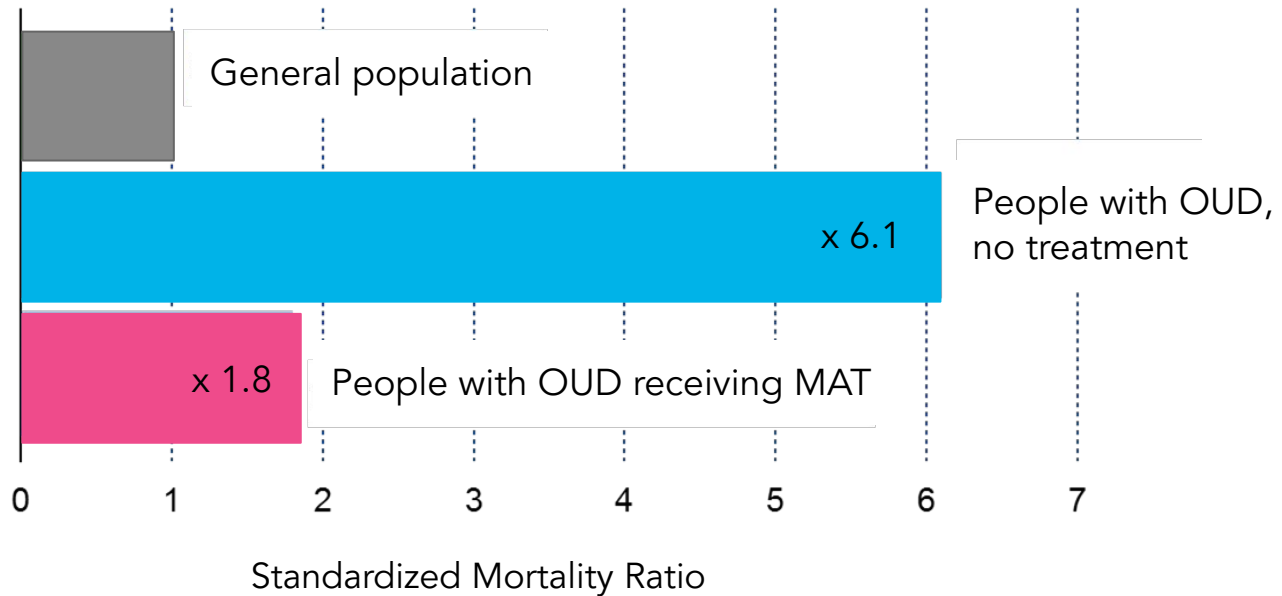
# Low-Barrier Treatment

*AKA Quick Start  
Treatment*



# Buprenorphine Saves Lives

Mortality Risk Compared to the General Population



# OUD is an EMERGENCY...

## And this is our JOB.

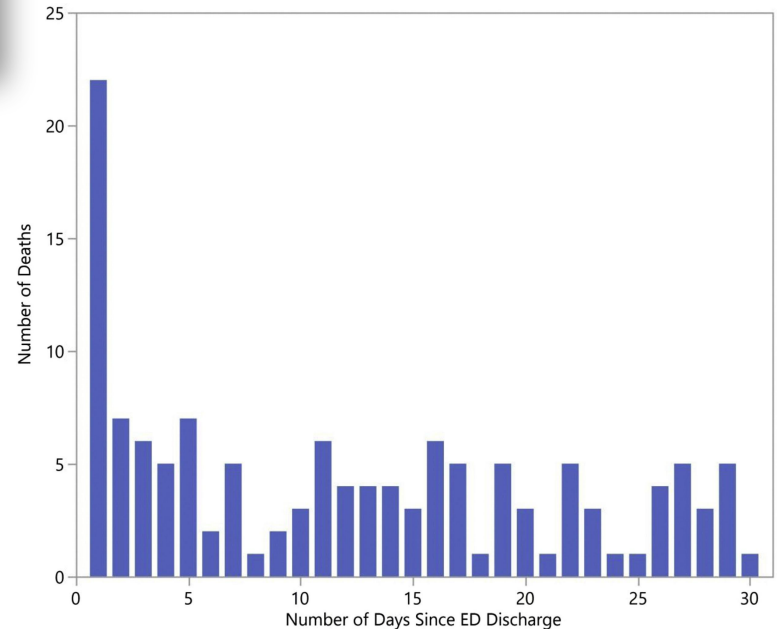
### One-Year Mortality of Patients After Emergency Department Treatment for Nonfatal Opioid Overdose

[Scott G. Weiner, MD, MPH<sup>a,\\*</sup>](#)   , [Olesya Baker, PhD<sup>a</sup>](#), [Dana Bernson, MPH<sup>b</sup>](#), [Jeremiah D. Schuur, MD, MHS<sup>c</sup>](#)

Patients treated in Massachusetts EDs for opioid overdose, 2011-2015:

- Shows short-term increase in mortality risk post-ED discharge
- Of patients that died, 20% died in the first month
- Of those that died in the first month, 22% died within the first 2 days

Number of deaths after ED treatment for nonfatal overdose by number of days after discharge in the first month (n=130)



# Medications for Opioid Use Disorder

## Methadone

Full mu (opioid) receptor agonist



Oral (often solution)

## Buprenorphine ± Naloxone

Partial mu receptor agonist



Sublingual (tab, film),  
IV, IM, subcutaneous  
injection, transdermal patch

## Naltrexone

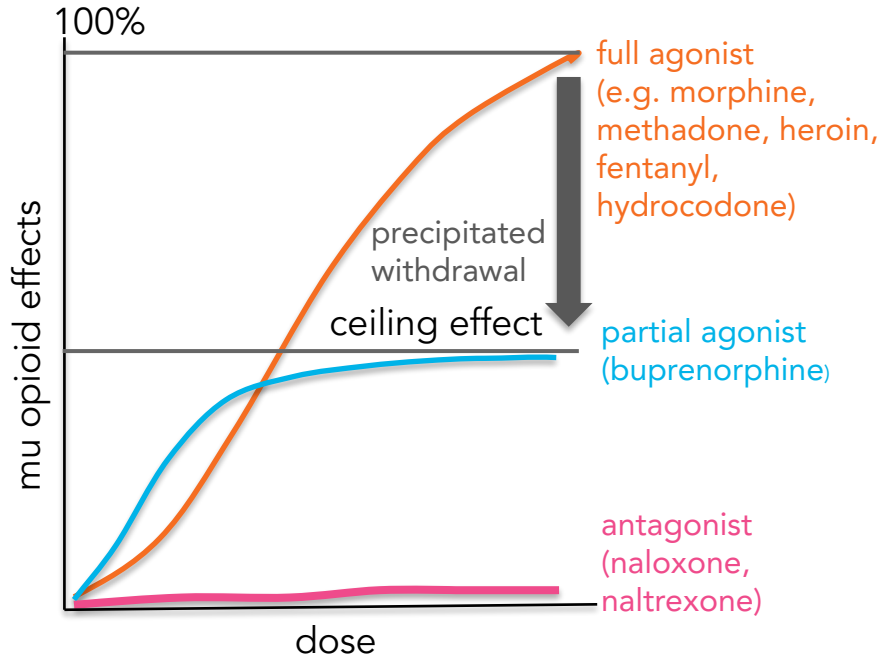
Mu receptor antagonist (blocker)



Intramuscular injection  
(extended release) or oral  
Ex: "Vivitrol," "ReVia"

# Understanding Buprenorphine (Bup)

- Treats withdrawal, cravings, & overdose
- Partial agonist → less respiratory depression & sedation
- High affinity
  - Blocks & displaces other opioids
  - Can precipitate withdrawal
- Half-life ~ 24-36 hours (long acting)



# Emergency Department Medication Starts Save Lives

## Original Investigation

### Emergency Department-Initiated Buprenorphine/Naloxone Treatment for Opioid Dependence A Randomized Clinical Trial

Gail D'Onofrio, MD, MS; Patrick G. O'Connor, MD, MPH; Michael V. Pantalon, PhD; Marek C. Chawarski, PhD; Susan H. Busch, PhD; Patricia H. Owens, MS; Steven L. Bernstein, MD; David A. Fiellin, MD

37% vs 78%

**CONCLUSIONS AND RELEVANCE** Among opioid-dependent patients, ED-initiated bup treatment vs brief intervention and referral significantly increased engagement in addiction treatment, reduced self-reported illicit opioid use, and decreased use of inpatient addiction treatment services but did not significantly decrease the rates of urine samples that tested positive for opioids or of HIV risk. These findings require replication in other centers before widespread adoption.

# The Numbers for Success

Number Needed to Treat	
Aspirin in ST-elevation myocardial infarction	42 to save a life
Warfarin in atrial fibrillation	25 to prevent a stroke
Steroids in chronic obstructive pulmonary disease (COPD)	10 to prevent treatment failure
Defibrillation in cardiac arrest	2.5 to save a life
Buprenorphine in opioid use disorder	2 to retain in treatment



# ~~X~~-ing the X-waiver!

As of Jan 1, 2023, an X-waiver is no longer required by federal law.  
Buprenorphine for medication for opioid use disorder no longer  
requires an X-waivered prescriber.



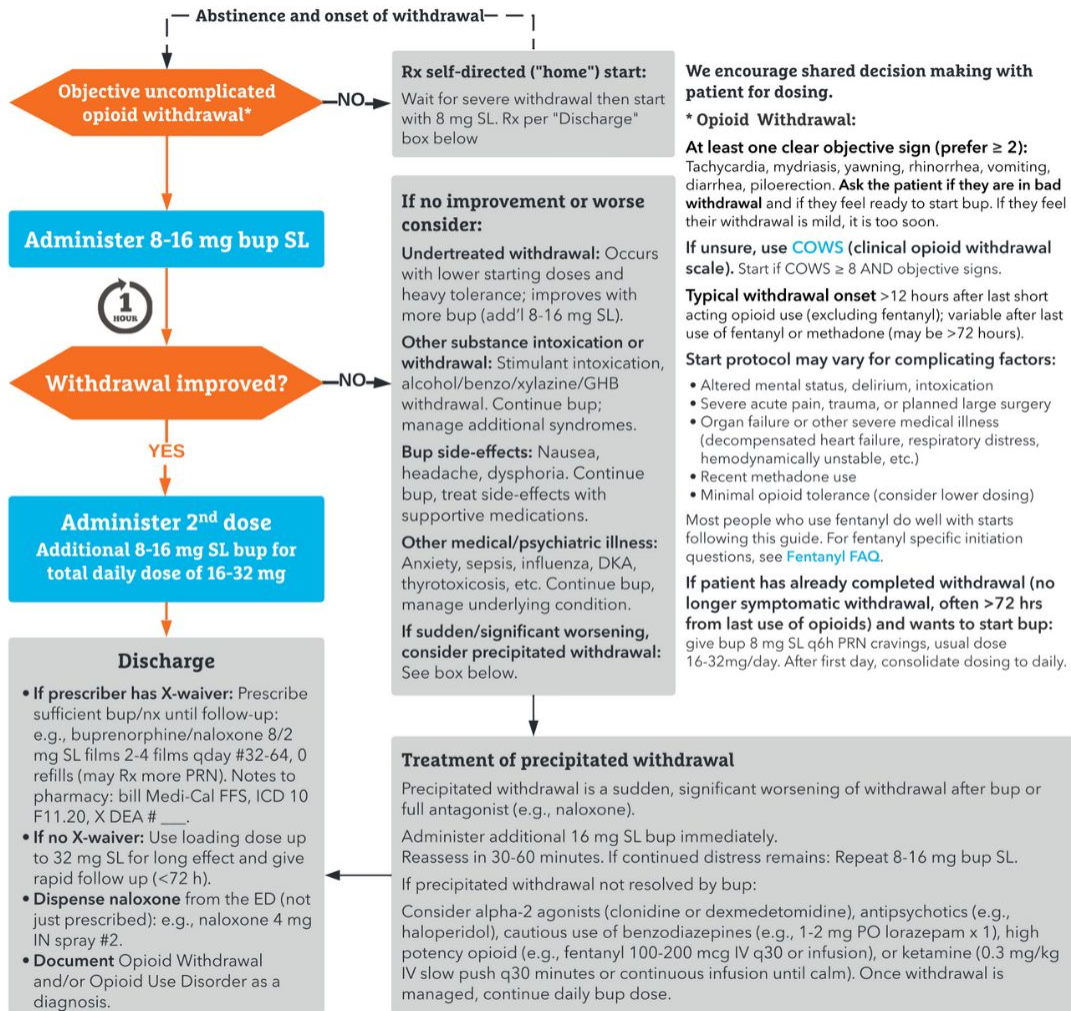
# Good News: MAT Works



# Buprenorphine (Bup) Emergency Department Quick Start



View or download on your device



# Identify Withdrawal & Rule-Out Contraindications

## \* Opioid Withdrawal:

At least one clear objective sign (prefer  $\geq 2$ ):

Tachycardia, mydriasis, yawning, rhinorrhea, vomiting, diarrhea, piloerection. **Ask the patient if they are in bad withdrawal** and if they feel ready to start bup. If they feel their withdrawal is mild, it is too soon.

If unsure, use **COWS** (clinical opioid withdrawal scale). Start if COWS  $\geq 8$  AND objective signs.

**Typical withdrawal onset** >12 hours after last short acting opioid use (excluding fentanyl); variable after last use of fentanyl or methadone (may be >72 hours).

**Start protocol may vary for complicating factors:**

- Altered mental status, delirium, intoxication
- Severe acute pain, trauma, or planned large surgery
- Organ failure or other severe medical illness (decompensated heart failure, respiratory distress, hemodynamically unstable, etc.)
- Recent methadone use
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## COWS Clinical Opiate Withdrawal Scale

Wesson & Ling, J Psychoactive Drugs. 2003 Apr-Jun;35(2):253-9

Resting Pulse Rate: _____ beats/minute Measured after patient is sitting or lying for one minute	GI Upset: over last 1/2 hour
0 Pulse rate 80 or below	0 No GI symptoms
1 Pulse rate 81-100	1 Stomach cramps
2 Pulse rate 101-120	2 Nausea or loose stool
4 Pulse rate greater than 120	3 Vomiting or diarrhea
	5 Multiple episodes of diarrhea or vomiting
Sweating: over past 1/2 hour not accounted for by room temperature or patient activity:	Tremor observation of outstretched hands
0 No report of chills or flushing	0 No tremor
1 Subjective report of chills or flushing	1 Tremor can be felt, but not observed
2 Flushed or observable moistness on face	2 Slight tremor observable
3 Beads of sweat on brow or face	4 Gross tremor or muscle twitching
4 Sweat streaming off face	
Restlessness Observation during assessment	Yawning Observation during assessment
0 Able to sit still	0 No yawning
1 Reports difficulty sitting still, but is able to do so	1 Yawning once or twice during assessment
3 Frequent shifting or extraneous movements of legs/arms	2 Yawning three or more times during assessment
5 Unable to sit still for more than a few seconds	4 Yawning several times/minute
Pupil size	Anxiety or irritability
0 Pupils pinned or normal size for room light	0 None
1 Pupils possibly larger than normal for room light	1 Patient reports increasing irritability or anxiousness
2 Pupils moderately dilated	2 Patient obviously irritable anxious
5 Pupils so dilated that only the rim of the iris is visible	4 Patient so irritable or anxious that participation in the assessment is difficult
Bone or Joint aches If patient was having pain previously, only the additional component attributed to opiates withdrawal is scored	Gooseblesh skin
0 Not present	0 Skin is smooth
1 Mild diffuse discomfort	3 Piloerection of skin can be felt or hairs standing up on arms
2 Patient reports severe diffuse aching of joints/ muscles	5 Prominent piloerection
4 Patient is rubbing joints or muscles and is unable to sit still because of discomfort	
Runny nose or tearing Not accounted for by cold symptoms or allergies	Total Score _____
0 Not present	The total score is the sum of all 11 items
1 Nasal stuffiness or unusually moist eyes	Initials of person completing Assessment: _____
2 Nose running or tearing	
4 Nose constantly running or tears streaming down cheeks	

Score: 5-12 mild; 13-24 moderate; 25-36 moderately severe; more than 36 = severe withdrawal

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# Fentanyl? Higher COWS + "Hard Signs"

## \* Opioid Withdrawal:

### At least one clear objective sign (prefer $\geq 2$ ):

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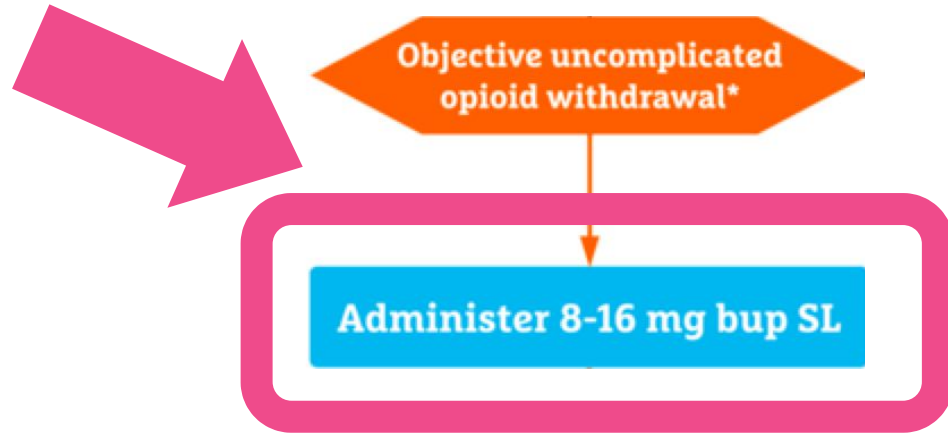
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- Recent methadone use
- Minimal opioid tolerance (consider lower dosing)

Most people who use fentanyl do well with starts following this guide. For fentanyl specific initiation questions, see [Fentanyl FAQ](#).

## Include 1+ objective signs!

- Dilated pupils
- "Goose bumps"
- Vomiting
- Tachycardia
- Yawning
- Runny nose & eyes

# Patient in Moderate to Severe Withdrawal & Interested in Buprenorphine?



Buprenorphine is given as sublingual, *dissolvable* dose.

No PO for 15-20min!

# Patient in Moderate to Severe Withdrawal & Interested in Buprenorphine?



No methadone for 72+hrs

CAUTION: benzodiazepines, etOH,  
other respiratory suppressants

# Patient in Moderate to Severe Withdrawal & Interested in Buprenorphine?

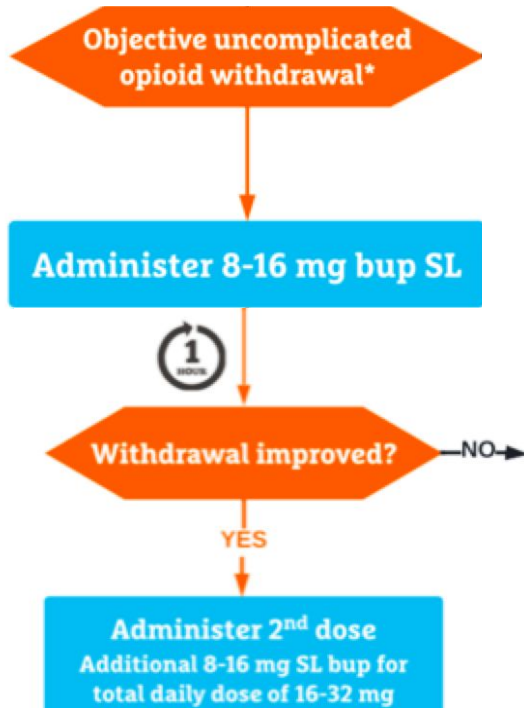


Typically start 8mg bup SL.

*Fentanyl use may require higher dose,  
e.g., 16-32 mg.*



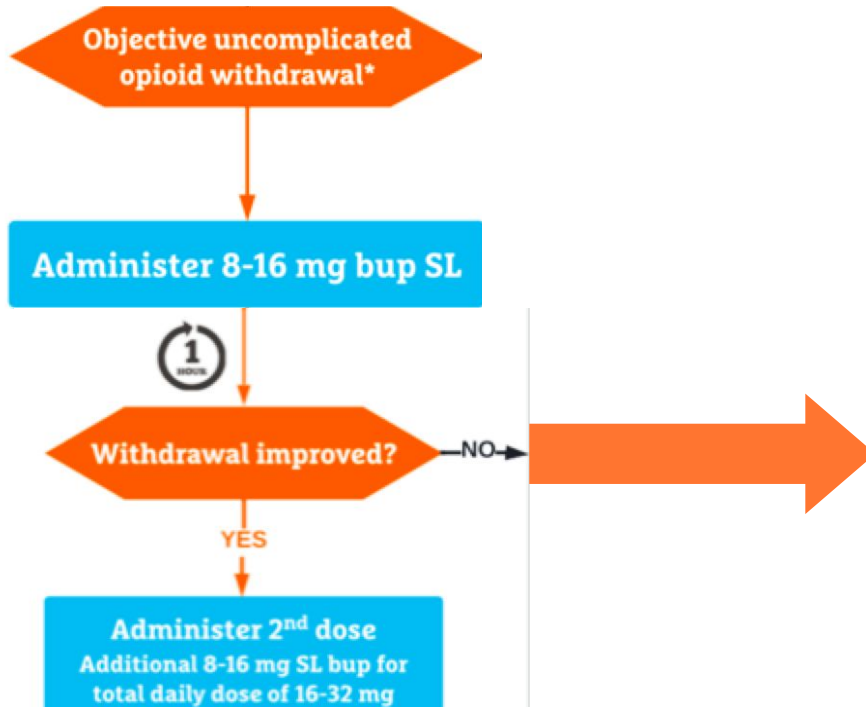
# Wait 1 hour. Reassess. Better? Give another dose.



Don't be afraid to repeat dose!  
Fentanyl use may take more doses.

Note: *Most* patients will still do great  
with 16-32 mg total buprenorphine.

# Wait 1 hour. Reassess. Not better? Widen your ddx.



## If no improvement or worse consider:

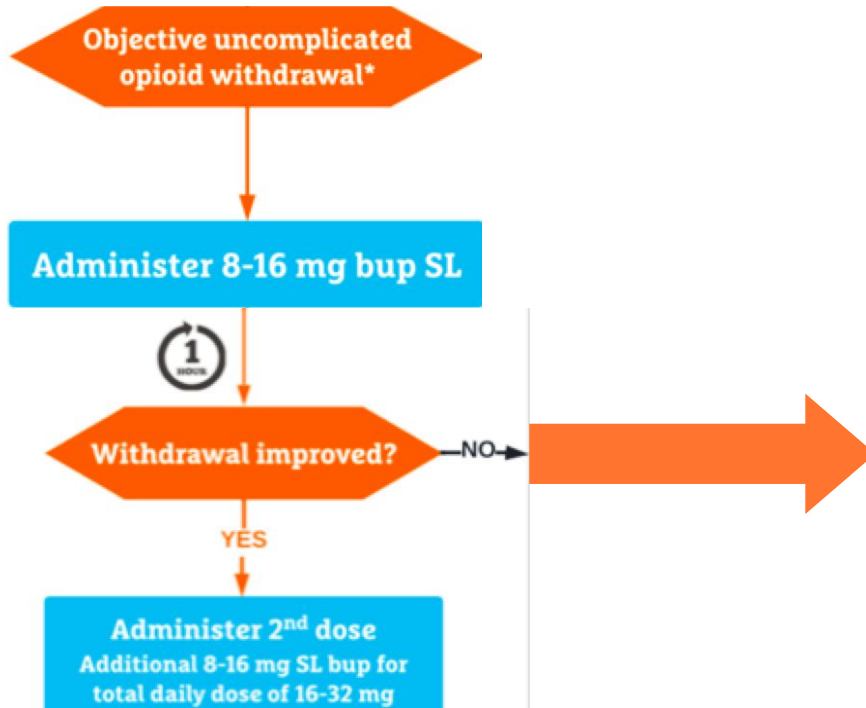
**Undertreated withdrawal:** Occurs with lower starting doses and heavy tolerance; improves with more bup (add'l 8-16 mg SL).

**Other substance intoxication or withdrawal:** Stimulant intoxication, alcohol/benzo/xylazine/GHB withdrawal. Continue bup; manage additional syndromes.

**Bup side-effects:** Nausea, headache, dysphoria. Continue bup, treat side-effects with supportive medications.

**Other medical/psychiatric illness:** Anxiety, sepsis, influenza, DKA, thyrotoxicosis, etc. Continue bup, manage underlying condition.

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## Undertreated Withdrawal

- Small bup doses given to pt with high tolerance → ongoing sx
- Incomplete treatment of sx
- As time goes on between doses, sx get worse – from lack of enough bup, not because of it
- Can be a *normal* part of the bup induction experience

## Precipitated Withdrawal

- Very rare! (<1% in National Institute on Drug Abuse data)
- How? “Too little bup, too soon”
- What? Rapid, *significant & sudden* worsening withdrawal sx
- Pain, unpleasant, agitated, “excited delirium”
- Note: this is what happens *on purpose* when we give naloxone!

# Why the Hype?!

- A rough patient experience – patients talk to each other!
- A rough provider experience – do not want to lose trust!

We need to **normalize the withdrawal** experience for pts.

It may take some time for the medication to work;  
I'm here for you  
and will help you  
no matter what happens.

I know going through withdrawal is terrible. I'm here to help make this the *BEST WITHDRAWAL EXPERIENCE EVER!*  
With *SUPPORT* and *MEDICATION* to ease your pain.

Have you ever tried buprenorphine before? Do you know anybody who has? What concerns do you have?

If you *do* precipitate withdrawal...





If you *do* precipitate withdrawal...

KEEP  
CALM  
AND  
GIVE  
BUP



If you *do* precipitate withdrawal...

KEEP  
CALM  
AND  
GIVE  
BUP...*and more bup!*



## **Treatment of precipitated withdrawal**

Precipitated withdrawal is a sudden, significant worsening of withdrawal after bup or full antagonist (e.g., naloxone).

Administer additional 16 mg SL bup immediately.

Reassess in 30-60 minutes. If continued distress remains: Repeat 8-16 mg bup SL.

If precipitated withdrawal not resolved by bup:

Consider alpha-2 agonists (clonidine or dexmedetomidine), antipsychotics (e.g., haloperidol), cautious use of benzodiazepines (e.g., 1-2 mg PO lorazepam x 1), high potency opioid (e.g., fentanyl 100-200 mcg IV q30 or infusion), or ketamine (0.3 mg/kg IV slow push q30 minutes or continuous infusion until calm). Once withdrawal is managed, continue daily bup dose.

# For Discharge:

Maintenance Treatment  
16 mg Bup SL/day  
Titrate to suppress cravings;  
Usual dose 16-32 mg/day

## Discharge

- **If prescriber has X-waiver:** Prescribe sufficient bup/nx until follow-up: e.g., buprenorphine/naloxone 8/2 mg SL films 2-4 films qday #32-64, 0 refills (may Rx more PRN). Notes to pharmacy: bill Medi-Cal FFS, ICD 10 F11.20, X DEA # \_\_\_\_.
- **If no X-waiver:** Use loading dose up to 32 mg SL for long effect and give rapid follow up (<72 h).
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- **Document** Opioid Withdrawal and/or Opioid Use Disorder as a diagnosis.

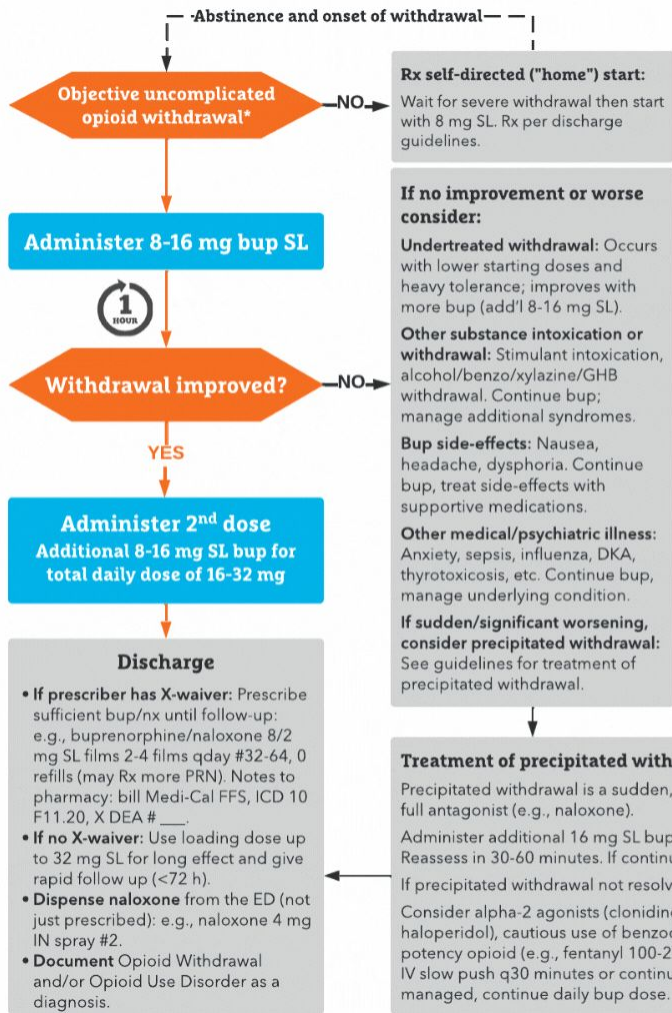
# Need Help?

California Only  
CA Poison Control (24/7)  
(800)222-1222

National Clinician  
Consultation Center  
Substance Use Warmline  
M-F 6 am-5 pm  
Voicemail 24 hrs, 7 days  
(855)300-3595



View or download on your device



**Rx self-directed ("home") start:**  
Wait for severe withdrawal then start with 8 mg SL. Rx per discharge guidelines.

**If no improvement or worse consider:**  
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**Bup side-effects:** Nausea, headache, dysphoria. Continue bup, treat side-effects with supportive medications.  
**Other medical/psychiatric illness:** Anxiety, sepsis, influenza, DKA, thyrotoxicosis, etc. Continue bup, manage underlying condition.  
**If sudden/significant worsening, consider precipitated withdrawal:** See guidelines for treatment of precipitated withdrawal.

**We encourage shared decision making with patient for dosing.**

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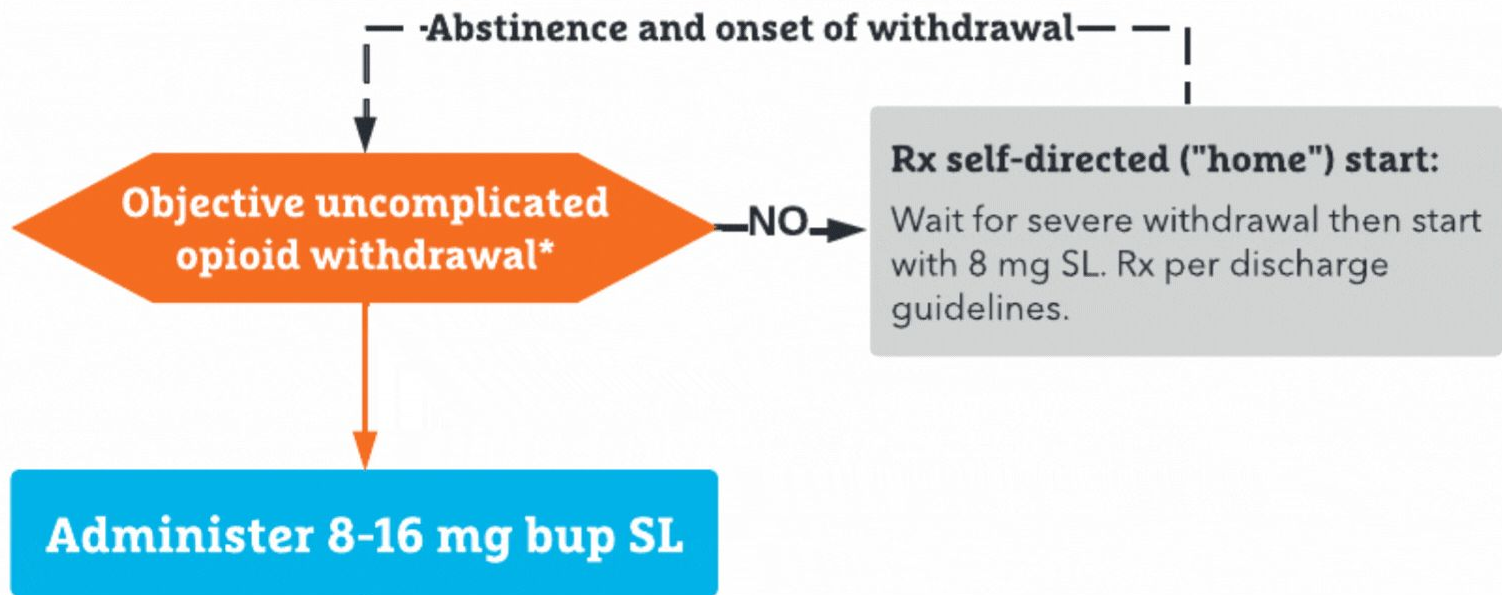
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**If patient has already completed withdrawal (no longer symptomatic withdrawal, often >72 hrs from last use of opioids) and wants to start bup:** give bup 8 mg SL q6h PRN cravings, usual dose 16-32mg/day. After first day, consolidate dosing to daily.

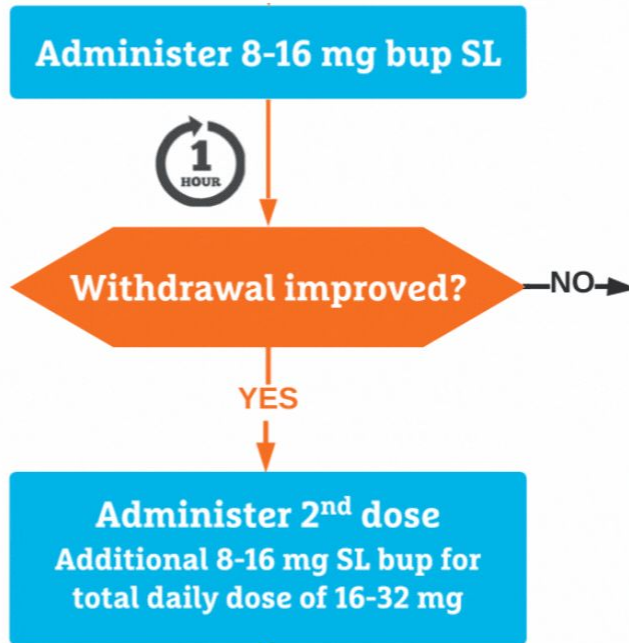
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What if the patient is  
interested in treatment,  
but not in withdrawal yet?

# Patients can self-start on bup!

Studies show pt's self-rating for withdrawal  $\geq$  COWS.

Instructions mimic hospital start.

Safe, effective option.



## Buprenorphine Self-Start

Guidance for patients starting buprenorphine outside of hospitals or clinics

- 1 Plan to take a day off and have a place to rest.
- 2 Stop using and wait until you feel very sick from withdrawals (at least 12 hours is best, if using fentanyl it may take a few days).
- 3 Dose one or two 8mg tablets or strips UNDER your tongue (total dose of 8-16mg).
- 4 Repeat dose (another 8mg-16mg) in an hour to feel well.
- 5 The next day, take 16-32mg (2-4 tablets or films) at one time.

### If you have started bup before:

- If it went well, that's great! Just do that again.
- If it was difficult, talk with your care team to figure out what happened and find ways to make it better this time. You may need a different dosing plan than what is listed here.

### If you have never started bup before:

- Gather your support team and if possible take a "day off."
- You are going to want space to rest. Don't drive.
- Using cocaine, meth, alcohol or pills makes starting bup harder, and mixing in alcohol or benzos can be dangerous.



Place dose under your tongue (sublingual).

### If you have a light habit: (For example, 5 "Norco 10's" a day)

- Consider a low dose: start with 4mg and stop at 8mg total.
- **WARNING:** Withdrawal will continue if you don't take enough bup.

### If you have a heavy habit: (For example, injecting 2g heroin a day or smoking 1g fentanyl a day)

- Consider a high dose: start with a first dose of 16mg.
- For most people, the effects of bup max out at around 24-32mg.
- **WARNING:** Too much bup can make you feel sick and sleepy.

**Not going well? Have questions?** Contact your Navigator for help!

Call or text your Navigator for help at \_\_\_\_\_

# CA Bridge Model

## Revolutionizing the System of Care



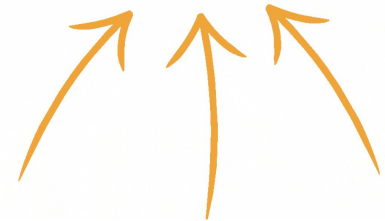
Low-Barrier Treatment



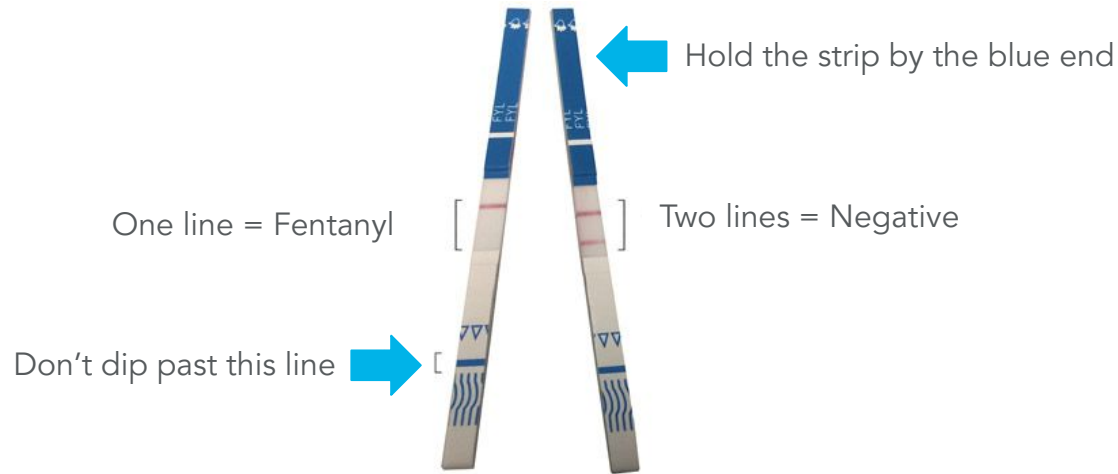
Connection to Care  
and Community



Culture  
of Harm Reduction

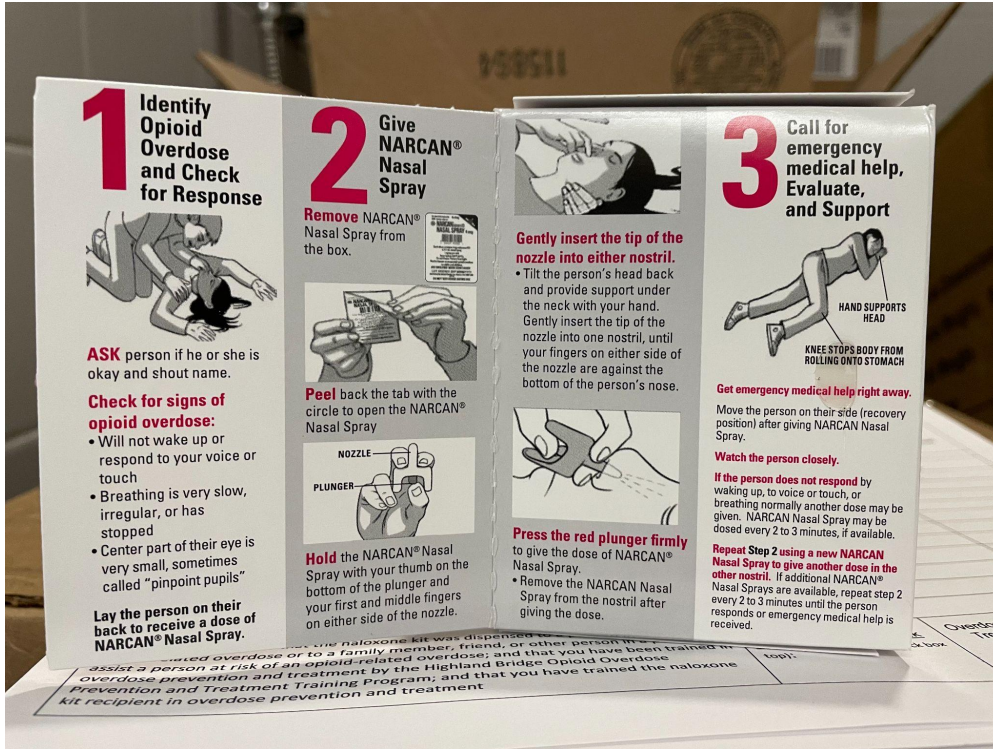


# Harm Reduction: Fentanyl Test Strips



- *Help identify unintentional fentanyl in drugs*
- *Caution: High concentrations of meth can cause false positive*

# Harm Reduction: Naloxone





# Harm Reduction: Never Use Alone

NO JUDGEMENT, NO SHAMING, NO  
PREACHING, JUST LOVE!

**(800) 484-3731**

If you are going to use by yourself, call us! You will be asked for your first name, location, and the number you are calling from. An operator will stay on the line with you while you use. If you stop responding after using, the operator will notify emergency services of an "unresponsive person" at your location.

FACEBOOK

CONTACT US



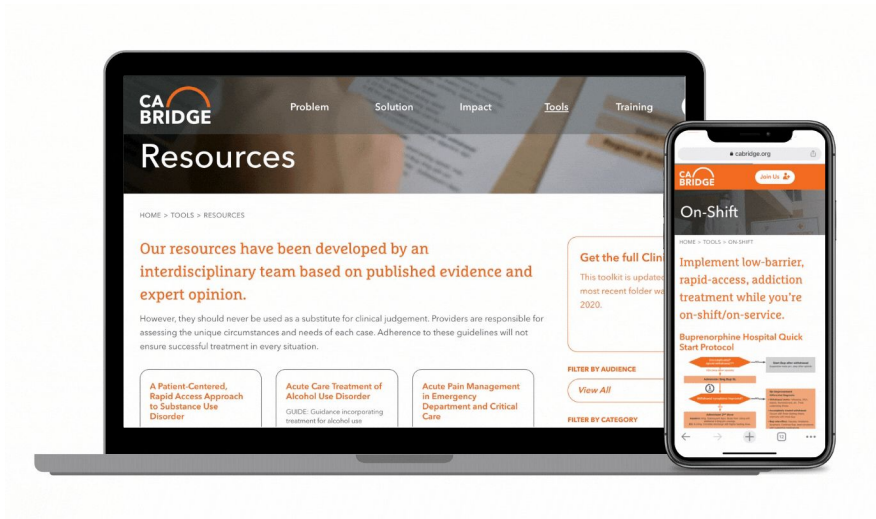
[www.neverusealone.com](http://www.neverusealone.com)

# Harm Reduction: Safe Injection Practices

- If possible, don't inject! Choose smoking, snorting, ingesting.
- Clean first with **alcohol swabs**
- **Do not reuse or share** needles or syringes
  - Use *sterile* equipment
  - Give info for **syringe exchange programs**
- Public **health screening** – HIV, HepC
- Check out **Harm Reduction Coalition** for more!



# CA Bridge Resources



Visit our website for resources and more [www.cabridge.org](http://www.cabridge.org)