

Opioids and Chronic Pain

A GUIDE FOR PRIMARY CARE PROVIDERS



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Opioid use disorder management

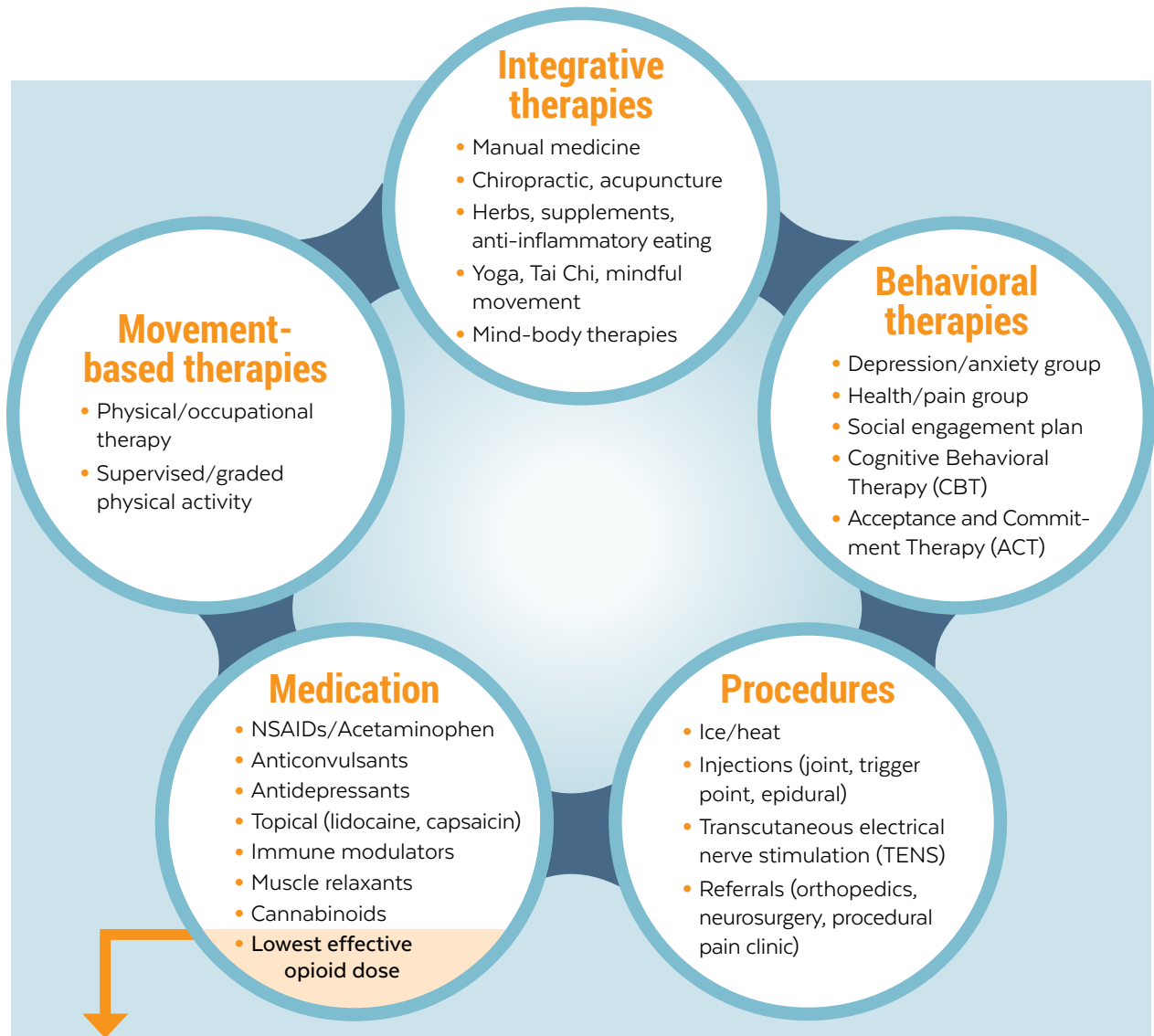
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Prescribing opioids for chronic pain





Managing chronic non-cancer pain



If an opioid medication is part of the treatment plan, take the following steps:

- >> **ASSESSMENT OF RISK, ADHERENCE, FUNCTION AND PAIN:** at least annually
- >> **INFORMED CONSENT OR CONTROLLED SUBSTANCE AGREEMENT:** at least annually
- >> **CONTROLLED SUBSTANCE MONITORING PROGRAM:** check regularly
- >> **PRESCRIBE NALOXONE:** at least every two years

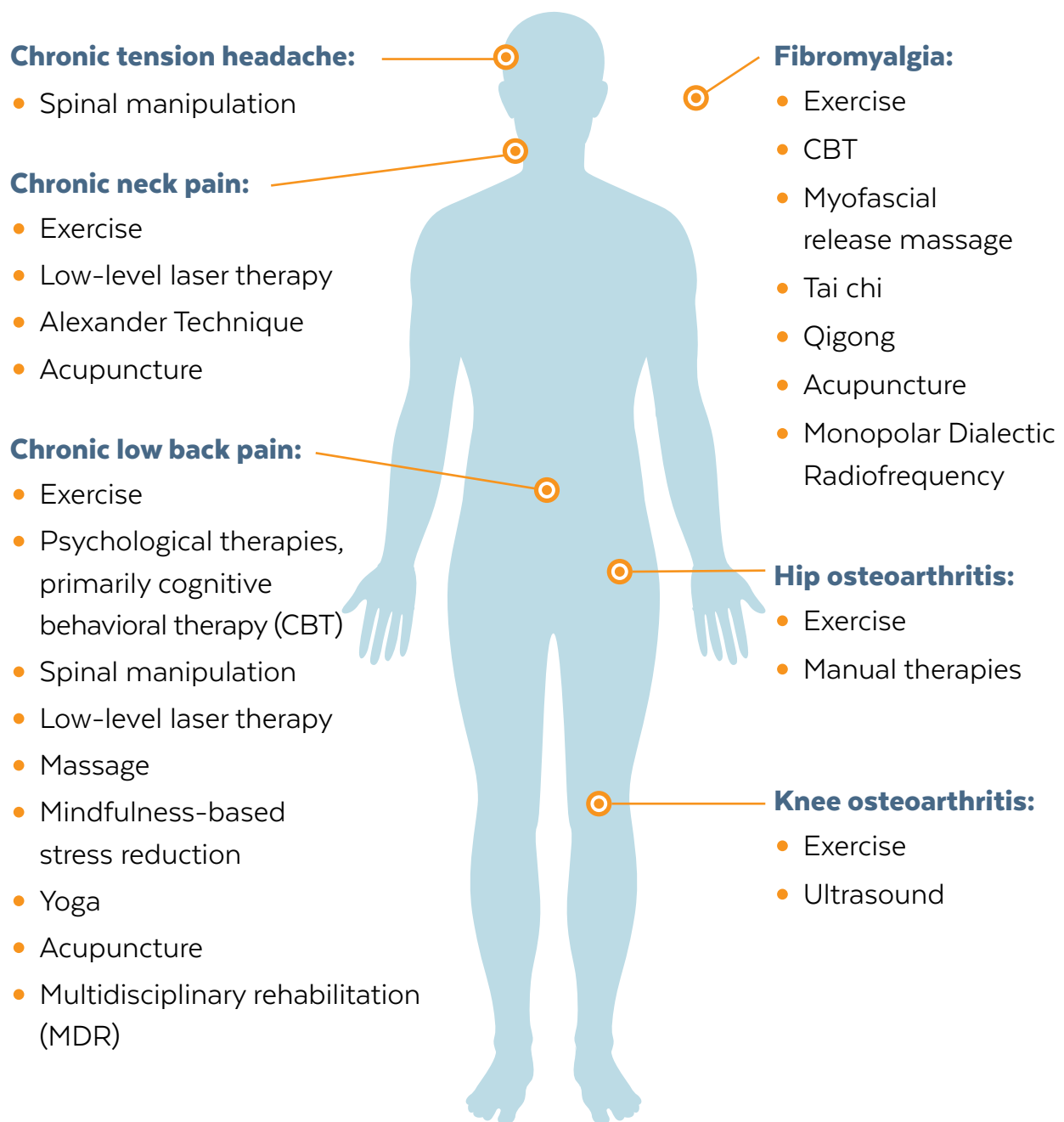
If managing opioid use disorder, options include:

- >> Start buprenorphine, methadone maintenance, or extended-release naltrexone
- >> Arrange for outpatient or residential treatment
- >> Consider behavioral health and other referrals



Non-pharmacologic treatment of chronic pain

The Agency for Healthcare Research and Quality conducted a systematic review of noninvasive non-pharmacological treatment for chronic pain and found the following interventions led to significant improvement in function and pain outcomes at least 1 month after completion of treatment:¹





Non-opioid pharmacologic treatment of chronic pain

Use a systematic approach to initiating pharmacologic therapy for pain:

1. Record history and physical, pain description, function/social assessment.
2. Determine mechanism of pain.
3. Consider non-pharmacologic options.
4. Consider pharmacologic options that may help.
5. Reassess response at regular intervals and modify treatment accordingly.

The Agency for Healthcare Research and Quality (AHRQ) evaluated the impact of non-opioid medications on chronic pain measures from 184 randomized controlled trials.

AHRQ EVIDENCE FOR NON-OPIOID PHARMACOLOGIC TREATMENTS FOR CHRONIC PAIN²

Condition	Improvement		
	Pain	Function	Quality of life
Neuropathic pain	SHORT-TERM: Duloxetine INTERMEDIATE TERM: Duloxetine, Pregabalin, Gabapentin, Oxcarbazepine	SHORT TERM: Duloxetine	SHORT TERM: Duloxetine
Fibromyalgia	SHORT TERM: Duloxetine INTERMEDIATE TERM: Duloxetine, Pregabalin, Gabapentin, Memantine	SHORT TERM: Duloxetine, Pregabalin, Gabapentin INTERMEDIATE TERM: Memantine	SHORT TERM: Duloxetine INTERMEDIATE TERM: Duloxetine, Memantine
Lower back pain	SHORT TERM: Duloxetine, Amitriptyline	—	—
Osteoarthritis	SHORT TERM: Duloxetine, NSAIDs, Diclofenac	SHORT TERM: Duloxetine, NSAIDs, Diclofenac	SHORT TERM: Duloxetine
Inflammatory Arthritis	SHORT OR LONG TERM: NSAIDs	SHORT OR INTERMEDIATE TERM: NSAIDs	—

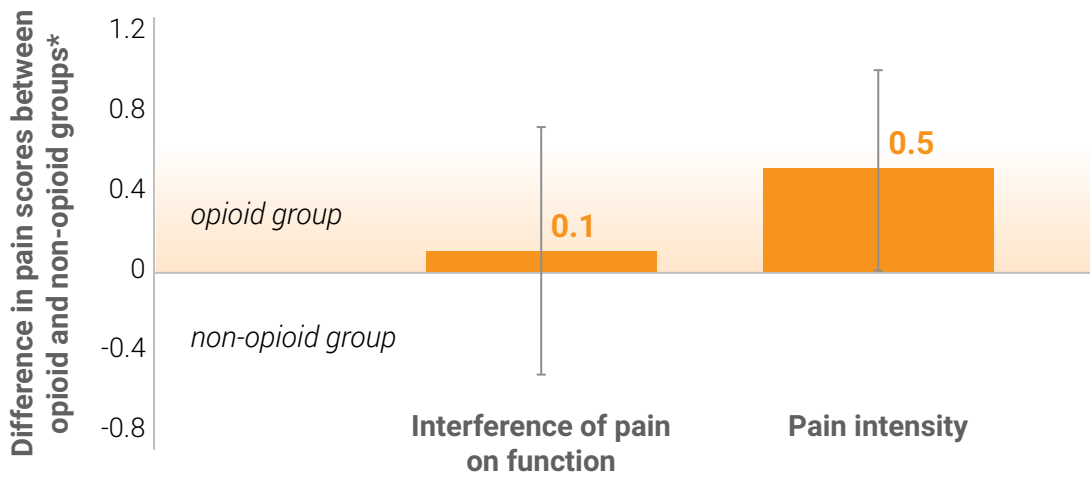
Pain scores were abstracted from Visual Analog Scale or Numerical Rating Scale; improvement defined as greater than or equal to 30% improvement. Function and quality of life outcomes abstracted data from validated scales including WOMAC function subscale, EuroQoL-5 Dimensions, and Short Form-36. Short term = 3-6 mo; Intermediate term = 6-12 mo; Long term ≥ 12 mo.



Considering opioids for pain management

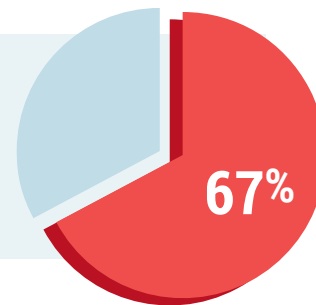
Avoid opioids as first-line therapy for chronic, non-cancer pain.

Patients randomized to opioids had **similar pain-related function and greater pain intensity** compared to those randomized to non-opioid medications.³



*Pain scores measured by Brief Pain Inventory (BPI) Interference and Severity Scales. Patients had no contraindications to acetaminophen or NSAIDs.

**Make sure to evaluate risks and benefits—
67% of patients prescribed opioids for
90 days are still using opioids at 2 years.⁴**



When *should* a provider consider opioids for chronic conditions?

- When other therapies are contraindicated
- When other therapy trials were implemented and unsuccessful
- After a full assessment and discussion of risks and benefits

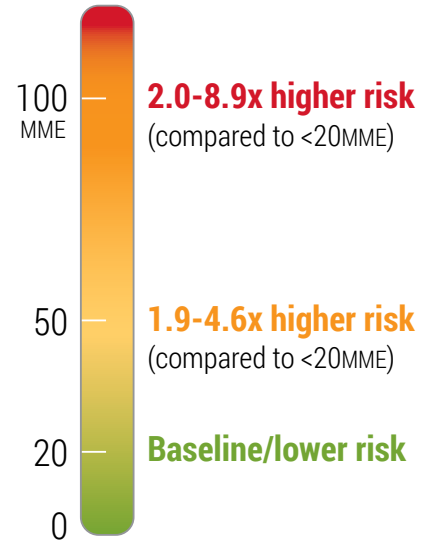


Opioid dose considerations

CALCULATING MORPHINE MILLIGRAM EQUIVALENTS (MME)

Opioid (doses in mg/day except where noted)	Conversion factor
Codeine	0.15
Morphine	1
Hydrocodone	1
Oxycodone	1.5
Fentanyl transdermal (in mcg/hr)	2.4
Oxymorphone	3
Hydromorphone	4
Methadone	
1-20 mg/day	4
21-40 mg/day	8
41-60 mg/day	10
≥61 mg/day	12

Higher opioid dose = higher risk of overdose⁵



These dose conversions are estimated and cannot account for all individual differences in genetics and pharmacokinetics. Some opioids, including methadone and fentanyl, have complex conversion factors and require expertise to manage.



recommends

If opioids *are* appropriate, consider using episodic, short-acting opioids and keep at the lowest effective dose—**low and slow**.



Exercise caution:

- Doses ≥ 50 MME
- Concurrent use of a benzodiazepine, alcohol or methadone for pain



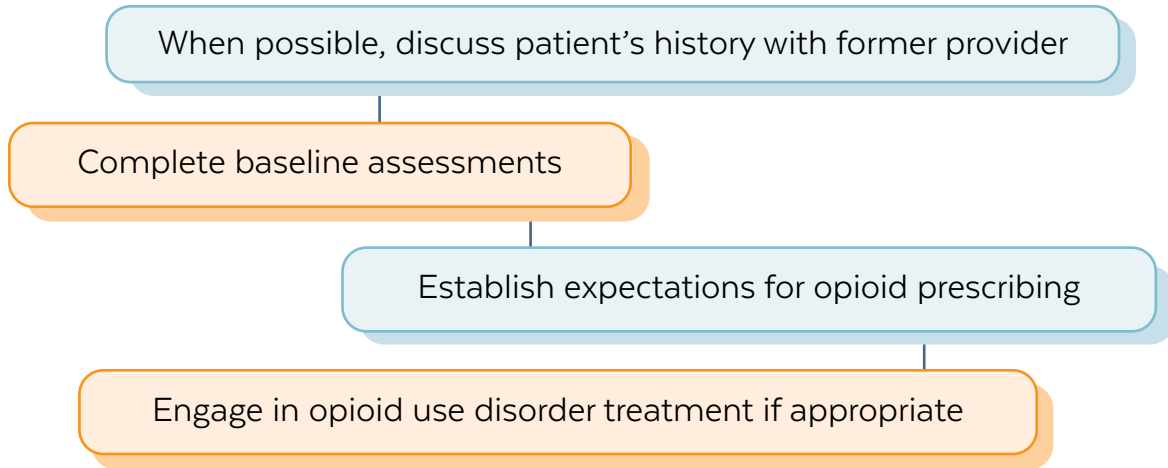
Avoid if possible:

- Dose ≥ 90 MME
- Opioid prescription > 3 months



Managing patients on opioids

INHERITING PATIENTS ALREADY ON OPIOID THERAPY CAN BE COMPLEX

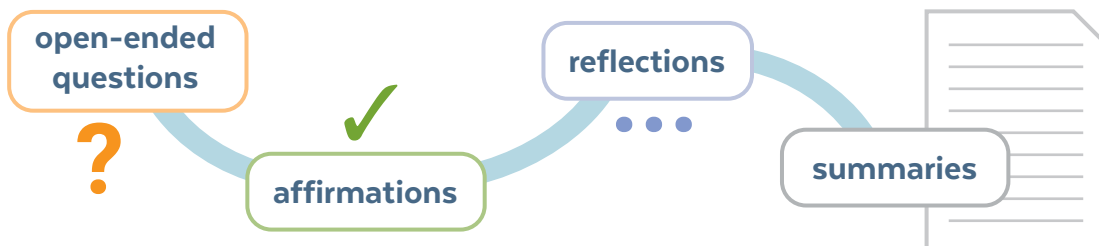


PATIENT ENGAGEMENT

- **Recognize patient** (e.g. psychosocial stressors), **provider** (e.g. time pressure, burnout), **and environmental factors** (e.g. regulatory changes) that lead to challenging conversations.
- Stigma can have a negative impact on the patient-provider relationship and a patient’s mental health.⁶ Use patient-first language.

Instead of these terms:	Use these:
addict	person with a substance use disorder
dirty urine	unexpected results
abuse	problematic use

- Use motivational interviewing techniques



For more information, go to: motivationalinterviewing.org



Preparing to reduce opioid dose

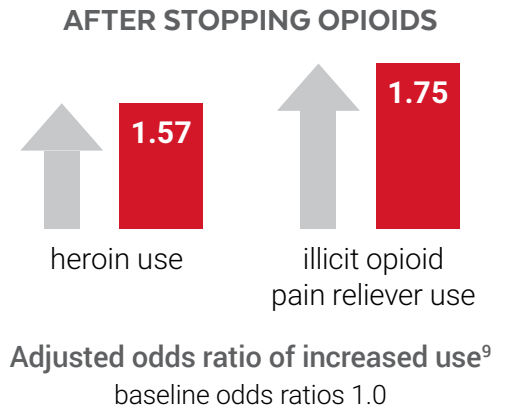
Tapering opioids may improve pain, based on a systematic review of 20 studies demonstrating improved or similar pain after a successful taper.⁷

HOWEVER, THERE ARE RISKS TO REDUCING OPIOID THERAPY:

- Complex persistent dependence:**

Patients living with chronic pain may experience neuroplastic effects from long-term opioid use, which may cause increased pain, decreased function, and psychological distress.⁸

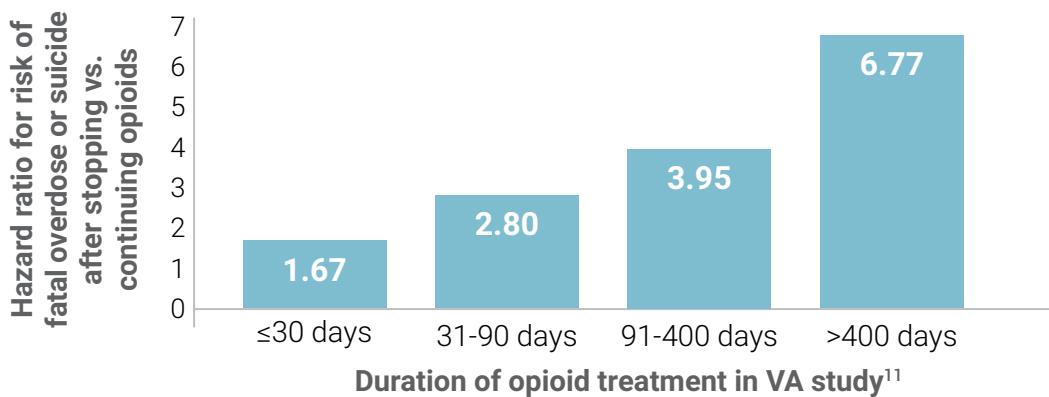
- Increased illicit substance use:** Stopping prescribed opioids increased the chance of more frequent heroin and illicit opioid pain reliever use.⁹



- Opioid-related adverse events:**

Approximately half of Medicaid patients in Vermont had an opioid-related ED visit or hospitalization following discontinuation of high-dose opioids. Speed of taper and substance use disorder diagnosis were the strongest predictors.¹⁰

- Mortality:** In a study of 1,394,102 patients in the VA, patients were at greater risk of fatal overdose or suicide after stopping opioid treatment, with increasing risk the longer patients had been treated before stopping.¹¹ Other studies have shown similar findings.¹²



FDA and CDC recommend opioid prescribing be individualized for each patient to modulate the risks of changing dose. Go to: bit.ly/CDC_opioidguide and bit.ly/FDA_opioidguide



Shared decision-making for opioid therapy

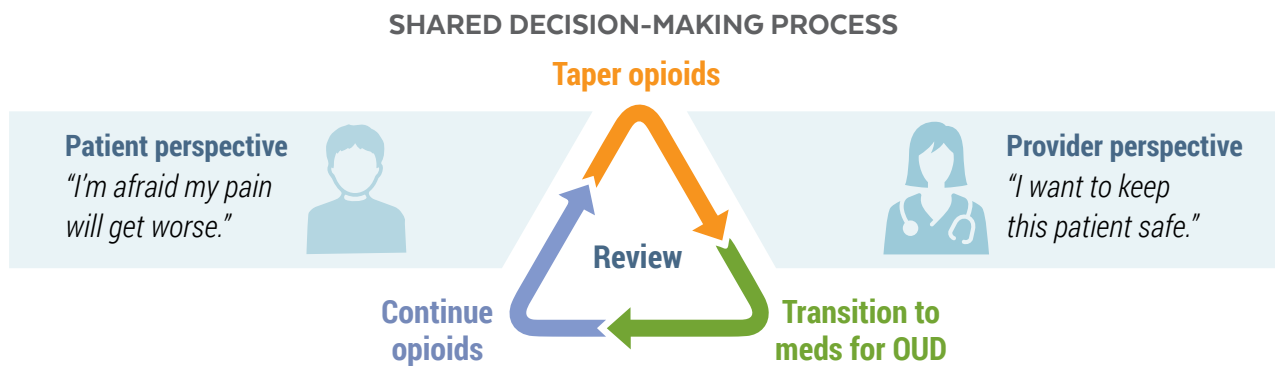
Avoid making a decision without an individualized conversation with the patient.

1 Ask the patient to describe perceived risks and benefits.

Patients may identify scenarios with limited benefit or increasing risk such as:

- On opioids after pain condition addressed
- No evidence of pain/function improvement
- Very high dose of opioids
- Other risky medications (e.g. benzodiazepines)
- Adverse effects (constipation, overdose, etc.)
- Worsening comorbidities
- Active opioid use disorder

2 Develop a plan with the patient.



Communication techniques:

- Validate patient's pain and experience
- Recognize power dynamics
- Empower patient to participate in treatment planning
- Don't judge
- Be flexible
- Prepare for emotion

3 Before implementing change, review and develop a plan for:

- Social issues (e.g. housing, finances, intimate partner violence)
- Alternative pain management strategy (other medication and non-medication strategies)
- Mental health services
- Social support
- Withdrawal medications
- Changes in tolerance and overdose risk



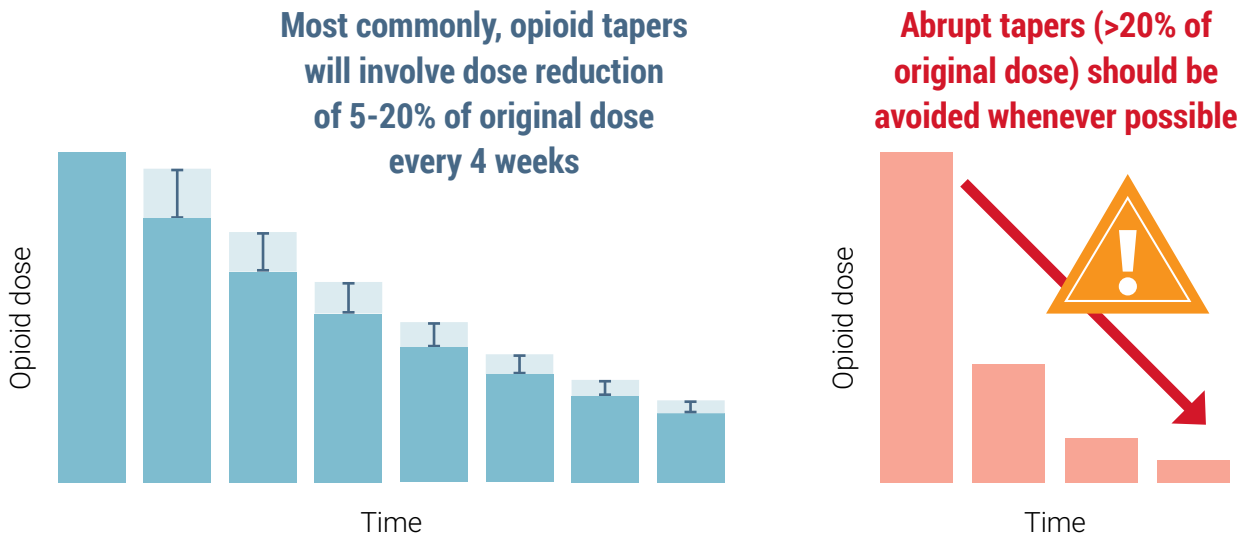
Mechanics of a taper

BUILD THE CASE

1. Get to know the patient’s stressors, needs, and pain:
 - don’t rush to start a taper immediately: patient buy-in is important
 - individualize the taper plan (see “Example tapers for opioids”)
2. Discuss the risks of tapering.
3. Involve patient in the selection of a taper speed and frequency of dose reduction (see “Example tapers for opioids”).
4. Tapering should **not** result in withdrawal. However, in some circumstances, you may prescribe adjunctive medications to treat withdrawal symptoms.

Symptom	Medication
Cold sweats, chills, feeling “jittery”	Clonidine: 0.1 mg tablet
Anxiety, problems sleeping	Hydroxyzine: 50 mg tablet
Nausea or vomiting	Ondansetron: 4 mg tablet
Diarrhea	Loperamide: 2 mg tablet
Body aches or muscle pain	NSAIDS or Acetaminophen

TAPER GOALS



Successful tapers look different for each patient and often include pauses, stops, and dynamic goals. Any reduction may be considered a success.



Example tapers for opioids¹³

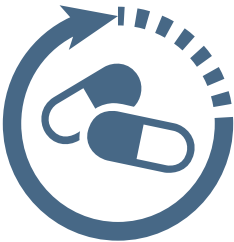
Slowest taper (over years)	
<p>Reduce by 2% to 10% every 4 to 8 weeks with pauses in taper as needed.</p> <p>Consider for patients taking high doses of long-acting opioids for many years.</p>	<p>Ex: morphine SR 90 mg q8h = 270 MED*</p> <p>Month 1: 90 mg SR qAM, 75 mg noon, 90 mg qPM [5% reduction]^a</p> <p>Month 2: 75 mg SR qAM, 75 mg noon, 90 mg qPM</p> <p>Month 3: 75 mg SR (60 mg+15 mg) q8h</p> <p>Month 4: 75 mg SR qAM, 60 mg noon, 75 mg qPM</p> <p>Month 5: 60 mg SR qAM, 60 mg noon, 75 mg qPM</p> <p>Month 6: 60 mg SR q8h</p> <p>Month 7: 60 mg SR qAM, 45 mg noon, 60 mg qPM</p> <p>Month 8: 45 mg SR qAM, 45 mg noon, 60 mg qPM</p> <p>Month 9: 45 mg SR q8h^b</p>
Standard taper (over months or years) – MOST COMMON	
<p>Reduce by 5% to 20% every 4 weeks with pauses in taper as needed.</p>	<p>Ex: morphine SR 90 mg q8h = 270 MED</p> <p>Month 1: 75 mg (60 mg+15 mg) SR q8h [16% reduction]</p> <p>Month 2: 60 mg SR q8h; Month 3: 45 mg SR q8h</p> <p>Month 4: 30 mg SR q8h; Month 5: 15 mg SR q8h</p> <p>Month 6: 15 mg SR q12h; Month 7: 15mg SR qhs, then stop</p>
Faster taper (over weeks)	
<p>Reduce by 10% to 20% every week.</p>	<p>Ex: morphine SR 90 mg q8h = 270 MED</p> <p>Week 1: 75 mg SR q8h [16% reduction]</p> <p>Week 2: 60 mg SR (15 mg x 4) q8h; Week 3: 45 mg SR (15 mg x 3) q8h</p> <p>Week 4: 30 mg SR (15 mg x 2) q8h; Week 5: 15 mg SR q8h</p> <p>Week 6: 15 mg SR q12h; Week 7: 15 mg SR qhs x 7 days, then stop</p>
Rapid taper (over days) – RARELY INDICATED	
<p>Reduce by 20% to 50% of first dose if needed, then reduce by 10% to 20% every day.</p>	<p>Ex: morphine SR 90 mg q8h = 270 MED</p> <p>Day 1: 60 mg SR (15 mg x 4) q8h [33% reduction]</p> <p>Day 2: 45 mg SR (15 mg x 3) q8h; Day 3: 30 mg SR (15 mg x 2) q8h</p> <p>Day 4: 15 mg SR q8h; Days 5-7: 15 mg SR q12h</p> <p>Days 8-11: 15 mg SR qhs, then stop</p>

^aContinue the taper based on patient response.

^bContinue following this rate of taper until off the morphine or the desired dose of opioid is reached.

*MED = morphine equivalent dose

Opioid stewardship





Pain and function assessments

Assessments should focus on both pain and function.

- **Assessments are essential when initiating opioid treatment or seeing a new patient** already on long-term opioid therapy.
- **Reassessments should take place at regular intervals** to ensure benefit and evaluate adverse events.



recommends

Assessments should take place within three months of starting treatment and at least annually thereafter.

PAIN, ENJOYMENT, GENERAL ACTIVITY (PEG) SCALE FOR ASSESSING PAIN INTENSITY AND INTERFERENCE: A SIMPLE, 3-QUESTION TOOL

1. What number best describes your pain on average in the past week:

0	1	2	3	4	5	6	7	8	9	10	
No pain											Pain as bad as you can imagine

2. What number best describes how, during the past week, pain has interfered with your enjoyment of life?

0	1	2	3	4	5	6	7	8	9	10	
Does not interfere											Completely interferes

3. What number best describes how, during the past week, pain has interfered with your general activity?

0	1	2	3	4	5	6	7	8	9	10	
Does not interfere											Completely interferes

CAUTION

Among racial and ethnic minority groups, women, and patients who are elderly or have cognitive impairment, pain can be underrecognized and inadequately treated.^{14,15}

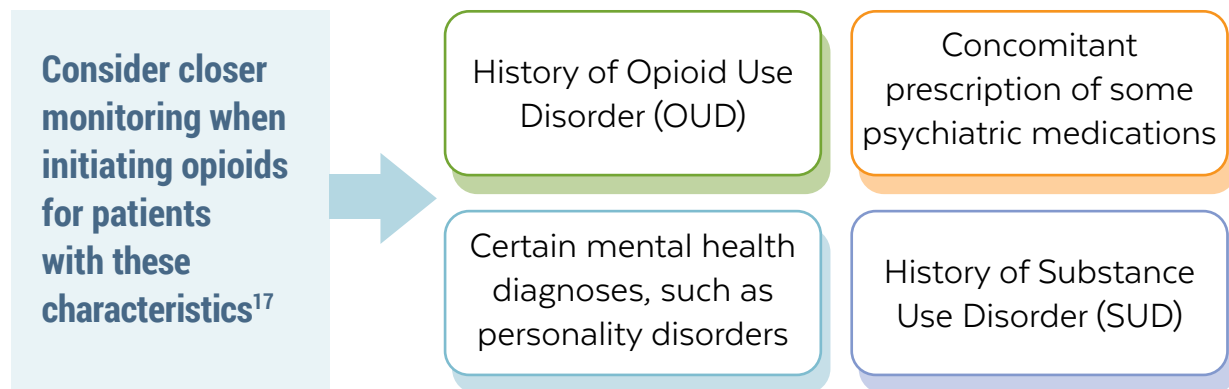
The PEG is as valid and reliable as the longer Brief Pain Inventory scale and is sensitive to changes in pain.¹⁶



Risk factor assessment

Once you have determined that opioids are indicated for a patient, assessing for risk of opioid use disorder may help guide how closely you monitor.

A systematic review found that **the following may be associated with increased risk of use disorder due to prescribed opioids:**



Screening tools (e.g. Opioid Risk Tool) are often used in protocols, but do not accurately predict outcomes.



In the presence of risk factors, consider increasing the frequency of:

- Pain/function assessments
- Urine drug screening
- Checking controlled substance monitoring program (CSMP)
- Screening for opioid use disorder



Urine drug screening (UDS)

Goal of UDS: Support patient care

UDS does:	UDS does not:
Support patient care	Prevent opioid-related problems among patients with chronic pain ¹⁸
Detect whether a substance has been used in a particular window of time	Diagnose addiction, dependence or diversion of controlled substances
Guide optimal care, like hemoglobin A1c	Singlehandedly provide justification to stop prescribing opioids for patients

HOW FREQUENTLY SHOULD I ORDER UDS FOR MY PATIENTS?

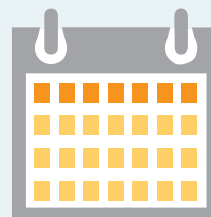
- CDC recommends UDS at first opioid prescription and at least annually thereafter.
- Most clinics adopt a uniform testing policy to prevent unintentional bias.
- Some facilities establish UDS frequency and timing independently of clinicians.



EXAMPLE

Use risk assessment to guide urine drug screening frequency.

- **Low risk:** every 12 mo
- **Higher risk or opioid dose > 120 MME/day:** consider more frequent screening





Interpreting UDS

Most UDS is in the form of immunoassays:

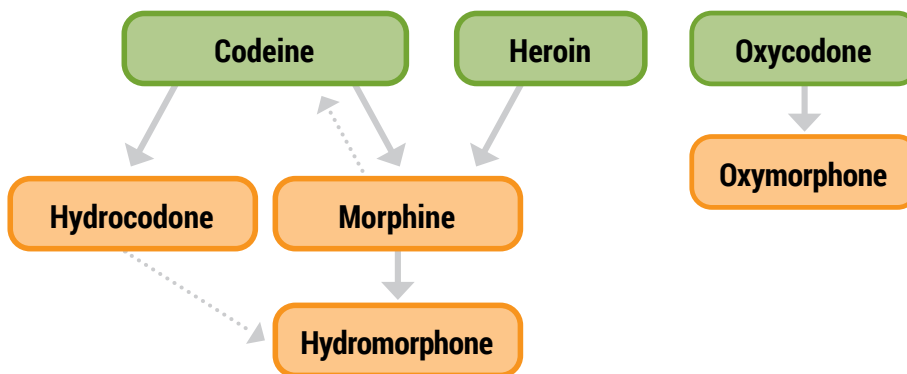
- Point-of-care
- Qualitative
- Show both metabolites and parent drug

Know your lab's standard testing panel/options.

LIMITATIONS:

- Do not test for all substances
- Methadone, buprenorphine, and fentanyl often require a separate test
- Many false positives/negatives

OPIOID METABOLIC PATHWAYS



EXAMPLE:

Prescription: Morphine

UDS results: hydromorphone + morphine

Interpretation: a) Patient most likely taking morphine only;
b) Patient could be taking morphine + hydromorphone

If UDS results are hard to explain:

- Talk with the patient
- Contact the lab
- Consider mass spectrometry (GC/MS or LC-MS):
 - Lab-based
 - Quantitative
 - Fewer false positives/negatives
 - More expensive

If UDS results are negative, consider:

- Is the patient taking the medication?
- Is the patient taking a lower dose of the medication, or more infrequently?
- Are negative results due to duration of use, body mass, hydration, etc.?

*If long-term suspicion for diversion or SUD, engage with patient to create a plan (e.g. OUD treatment, tapering, referrals).

**Always discuss results with patient before drawing conclusions;
avoid changing therapy based on one unexpected result.**



Informed consent and treatment agreements

- **Informed consent** is a joint, documented discussion between provider and patient to address risks associated with opioids and clarify expectations.
- **Controlled substance agreements** are written documents, similar to and possibly replacing informed consent, which include expectations of both the patient and provider. They are generally signed by the patient and renewed annually.



recommends

Review informed consent or controlled substance agreements at least annually.

CONTROLLED SUBSTANCE PATIENT-PROVIDER AGREEMENT

The use of opioid pain medication is only one part of treatment for chronic pain.

The goals for using this medicine are:

- To improve my ability to work or function at home.
- To help my problem as much as possible.

Provider's Responsibilities

Patient Responsibilities

Refills

Privacy

Prescriptions from Other Providers

Stopping the Medication

I have been told about the possible risks and benefits of this medicine.

Patient's name and signature

Date

Provider's name and signature

Date

At a minimum, providers should offer written information to patients about the benefits and risks of opioid therapy and document patients' understanding and agreement.

Controlled substance agreement templates are available online:
bit.ly/PA_form

Additional considerations

- Remind patients to keep opioids in a locked and safe place.
- Encourage safe disposal of drugs, like take-back programs.





Controlled substance monitoring

In the U.S., 49 states (all except for Missouri) and the District of Columbia have their own controlled substance monitoring program (CSMP):

> an online system that tracks certain controlled substances and provides a database for prescribers, dispensers, law enforcement, and other licensing authorities.

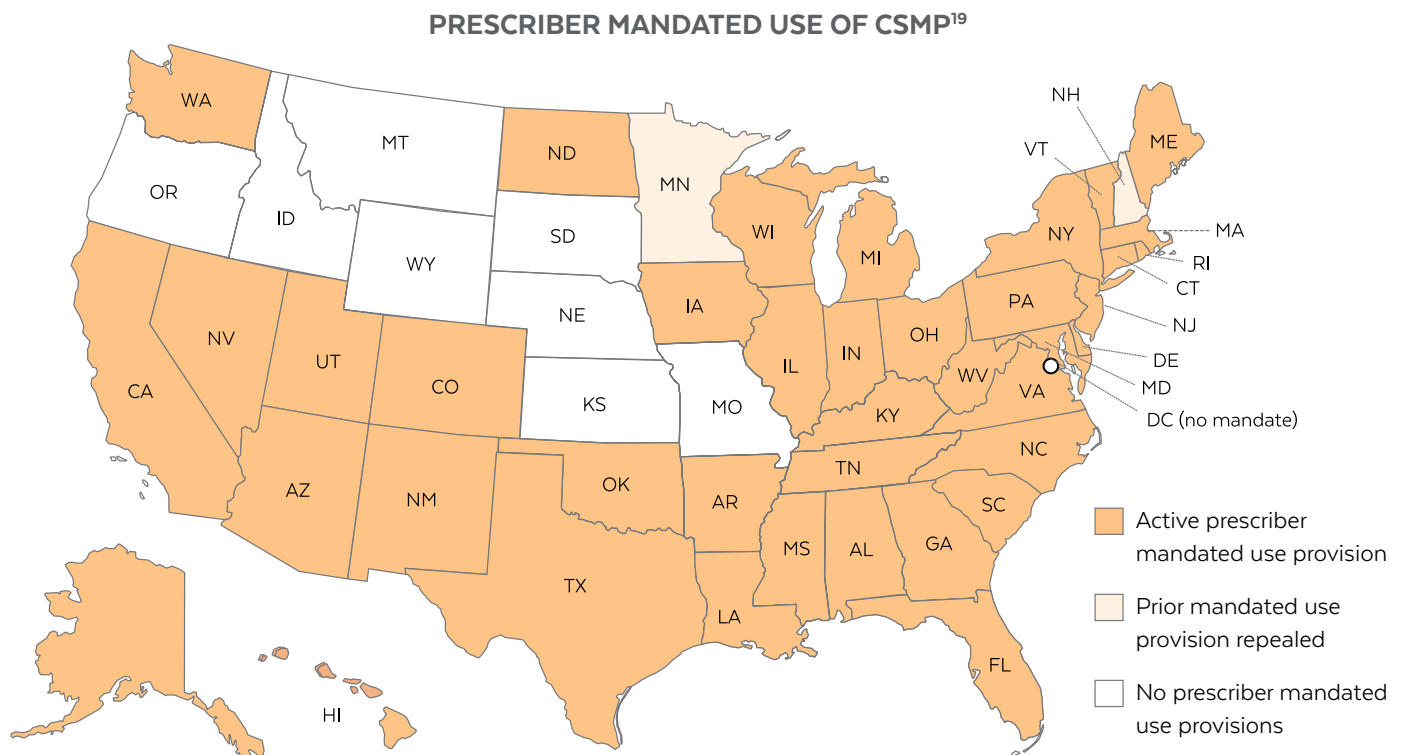
CSMPs are often called prescription drug monitoring programs (PDMPs), however not all prescription drugs are tracked.

Many states have both mandated enrollment in the CSMP and query conditions (e.g., requiring licensed providers who prescribe, order, administer, or dispense scheduled drugs to check CSMP upon first prescription and at regular intervals).

FEATURES OF CONTROLLED SUBSTANCE MONITORING PROGRAMS:

- Alerts on patients who reach prescribing thresholds or have multiple prescribers
- Peer-to-peer communication and interstate data sharing (for some states)
- Patient reports

For information about your state, go to: www.pdmpassist.org



Exceptions may apply, map current to 2019

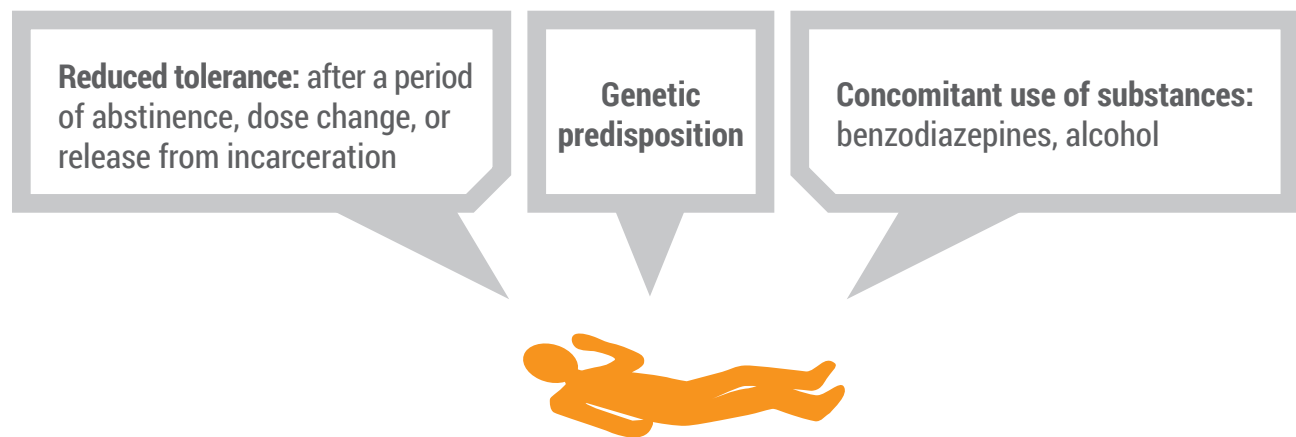


Overdose prevention

Prior opioid overdose is a major risk for future overdose.

A patient who has previously overdosed is greater than **seven times more likely** to overdose in the subsequent year.²⁰

OTHER FACTORS THAT INCREASE RISK OF OVERDOSE



Some patients have overdosed and don't realize it.

In one study, out of 60 patients on opioid therapy for pain, 37% had stopped breathing or required help to be woken up due to opioids.²¹

45%

of those patients denied overdosing, calling it a bad reaction.

The word “**overdose**” may have **negative connotations** and people who use prescription opioids may not relate to it. Instead of using the word “overdose”, consider language like “accidental overdose” or “bad reaction”, or talk about “opioid safety”.



Naloxone is effective as overdose prevention

GIVING NALOXONE TO PEOPLE WHO USE DRUGS IS ASSOCIATED WITH REDUCED OVERDOSE MORTALITY

FATAL OPIOID OVERDOSE RATES BY NALOXONE IMPLEMENTATION IN MASSACHUSETTS²²

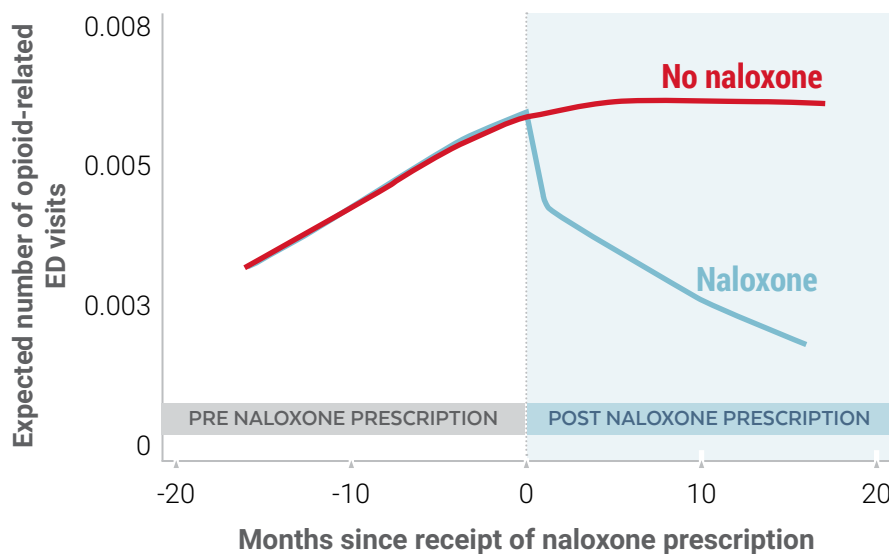


Overdose education and nasal naloxone distribution programs trained 2912 potential bystanders who reported 327 rescues.

Compared to communities that did not implement these programs, both groups had significantly reduced adjusted rate ratios ($p < 0.01$). The adjusted odds ratio measured the incidence of overdoses, controlling for confounding variables.

NALOXONE MAY REDUCE OPIOID-RELATED ADVERSE EVENTS

OPIOID-RELATED EMERGENCY DEPARTMENT VISITS BY RECIPIENT OF NALOXONE PRESCRIPTION AMONG PRIMARY CARE PATIENTS ON OPIOID THERAPY FOR CHRONIC PAIN^{23**}



Prescribing naloxone to 29 patients averted 1 opioid-related emergency department visit in the following year.

*Ratios with 95% confidence intervals, adjusted for population age <18, male, race/ethnicity, below poverty level, medically supervised inpatient withdrawal, methadone and buprenorphine treatment, prescriptions to doctor shoppers, year.

**In a population with a rate of opioid-related emergency department visits of 7/1000 person years.



Indications for naloxone prescribing



recommends

- Prescribing naloxone for patients on prescribed opioids with:
 - Opioid use ≥ 50 MMEs/day
 - Benzodiazepine use
 - History of substance use disorder
 - History of opioid overdose
 - Other factors that increase overdose risk, including comorbidities or concomitant medications



Also offer naloxone to patients:

- With any illicit substance use
- At risk of witnessing an opioid overdose

Naloxone is NOT a controlled substance.

Any licensed healthcare provider can prescribe naloxone.

NALOXONE LEGISLATION VARIES BY STATE:

- Some states (i.e. AZ, CA, FL, OH, NM, RI, VT, VA, WA) have **co-prescribing laws** that require providers to prescribe or offer a naloxone prescription to patients on high doses of opioid pain medications or with high risk of overdose.
 - The FDA, American Medical Association, and Department of Health and Human Services all recommend that providers co-prescribe naloxone.
- At least 46 states and the District of Columbia have enacted **“good Samaritan”** laws, allowing private citizens to administer naloxone without legal liability.
- All states except NE, MN, and KS allow providers to write **prescriptions for third parties** (i.e. friends, family) to have in case of a witnessed overdose.
- **All 50 states have either laws or standing order protocols** allowing certified pharmacists or community organizations to dispense naloxone to anyone at risk of overdose or in a position to assist without a prescription.



Naloxone formulations

Naloxone mechanism of action

- Highly specific, high-affinity opioid antagonist used to reverse the effects of opioids
- Lasts 30-90 minutes
- Virtually no side effects

INTRANASAL

- Naloxone 4mg #1 two pack. Use PRN for suspected opioid overdose and call 911. Repeat every 2-3 minutes if symptoms persist.



If intranasal naloxone is not optimal or accessible, an injectable naloxone prescription may be written. Provide direct education to patients for vial and syringe administration of naloxone.

INJECTABLE

- Naloxone 0.4mg IM #2, use PRN for suspected overdose, IM syringe (3ml 25g 1" syringe) #2



AUTO-INJECTOR

Auto-injectors have been discontinued in the United States but can continue to be used up to their expiration dates.



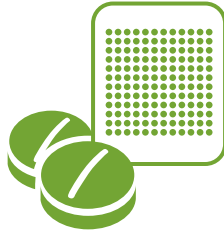
SBIRT CODES

To bill time for naloxone training
(per 15 min intervals)

Medicare:	Medicaid:	Commercial:
G0396	H0050	CPT99408

SBIRT: Screening, Brief Intervention, and Referral to Treatment

Opioid use disorder management





Recognizing opioid use disorder (OUD)

Ask non-judgmental, open-ended questions about patterns of drug use and how use affects the patient's life.

DSM-5 CRITERIA FOR OPIOID USE DISORDER (OUD)*



USE PATTERNS:

- **More/longer** use than intended
- **Unable to stop** or cut down
- **Excessive time** dealing with opioids
- **Craving**



CONTINUED USE EVEN WHEN:

- **Responsibilities** not fulfilled
- **Social** and interpersonal problems
- **Activities** reduced
- **Physical** hazards from use
- **Health** problems patient knows are caused by opioids



DRUG EFFECTS (ONLY IF NOT PRESCRIBED):

- **Tolerance:** requiring more to achieve effect
- **Withdrawal** symptoms if opioids are stopped



SCORING

Give 1 point for each domain endorsed by the patient or observed by the clinician.

Mild SUD = 2-3

Moderate SUD = 4-5

Severe SUD = 6 or more

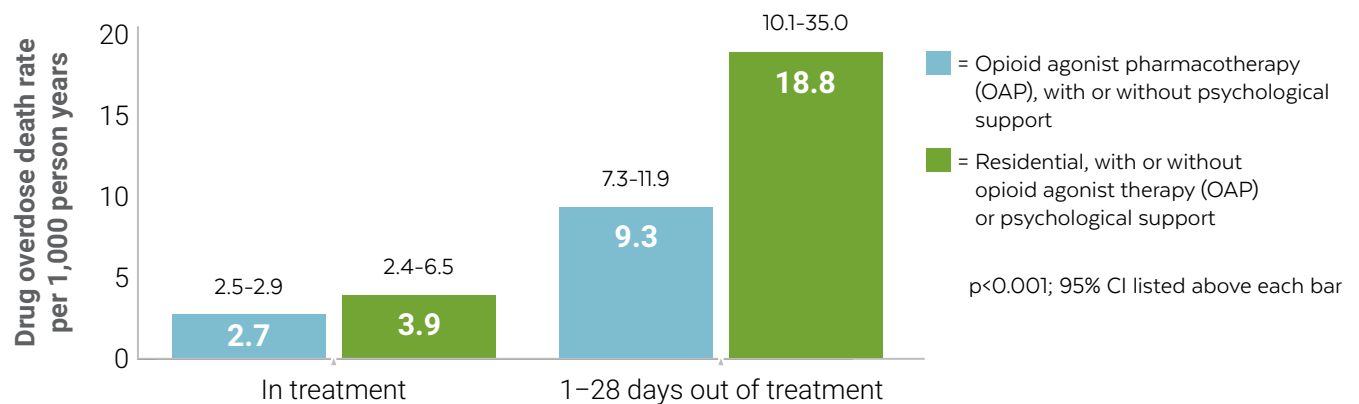
*Used to diagnose OUD as well as other substance use disorders.



Managing OUD

- If your patient has OUD, it is essential to arrange for treatment.
- **Treatment with medications has the best evidence for managing OUD** and should be considered for all patients.
- When therapy for OUD is stopped, the risk of death increases.

DRUG OVERDOSE DEATH RATE PER 1,000 PERSON YEARS AMONG 151,983 PEOPLE WITH OUD SEEKING TREATMENT IN THE UNITED KINGDOM²⁴



FDA-APPROVED MEDICATION TREATMENT OPTIONS

- Buprenorphine (with or without naloxone)
- Methadone
- Extended-release naltrexone

Like treatment for other chronic diseases such as diabetes, these medications should be considered long-term therapy.

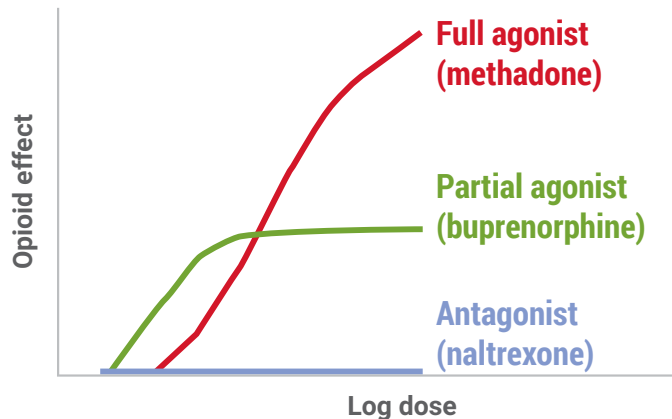
BEHAVIORAL/PSYCHOLOGICAL INTERVENTIONS

- Outpatient or inpatient rehabilitation and counseling
- Support groups such as Narcotics Anonymous

If not personally providing OUD treatment, a warm hand-off to other providers is critical.



Buprenorphine overview and safety profile



BUPRENORPHINE

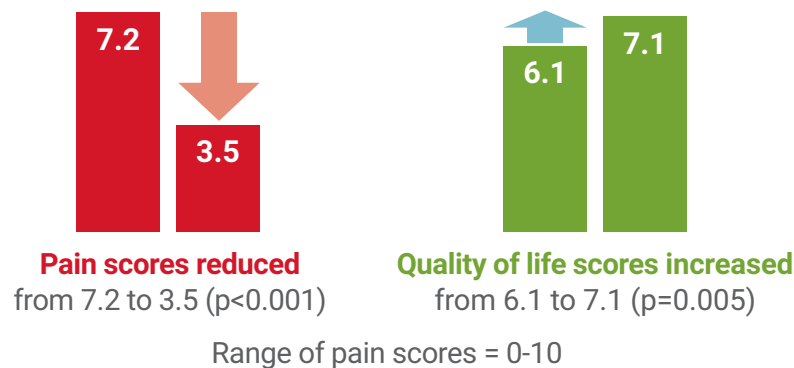
- A partial opioid agonist
- Time to peak: 30 min to 3 days depending on formulation
- Has very high affinity, blocking effects of heroin or other opioids

SAFETY PROFILE

- Due to the “ceiling effect” of a partial agonist, buprenorphine has:
 - **Low potential for misuse** and diversion
 - **Low risk** of respiratory depression or overdose
 - **Ability to reduce craving and withdrawal** without the euphoria of full agonist
- Maintenance is critical: OUD requires long-term care.
- Buprenorphine treatment is safe and effective during pregnancy.²⁵
- Most buprenorphine for OUD treatment is co-formulated with naloxone to discourage diversion or injection of the product.

STUDIES ALSO SUPPORT USE OF BUPRENORPHINE FOR CHRONIC PAIN²⁶

In a study of 35 patients on 200-1,370 morphine equivalent milligrams of opioids for chronic pain, after two months of sublingual buprenorphine:

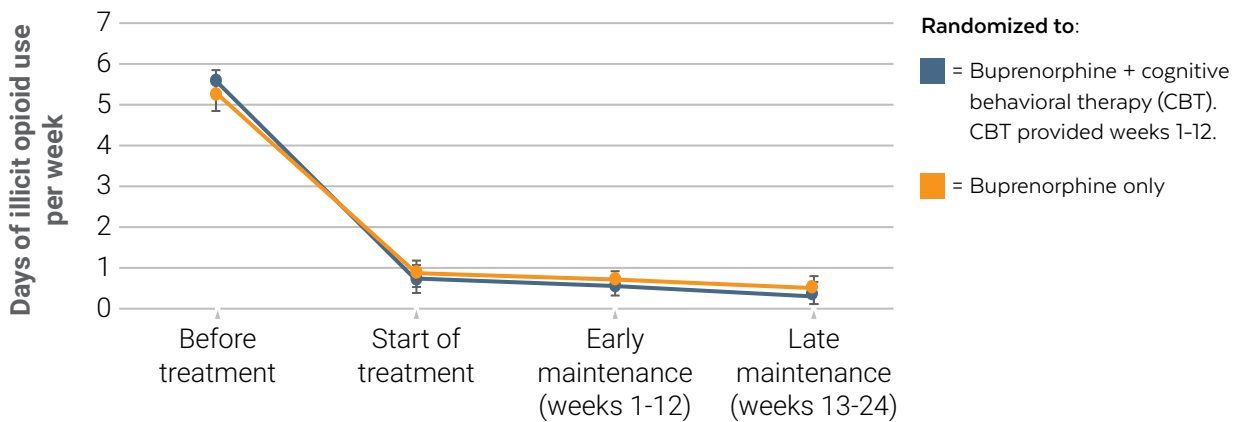




Buprenorphine is an effective medication to treat OUD in primary care

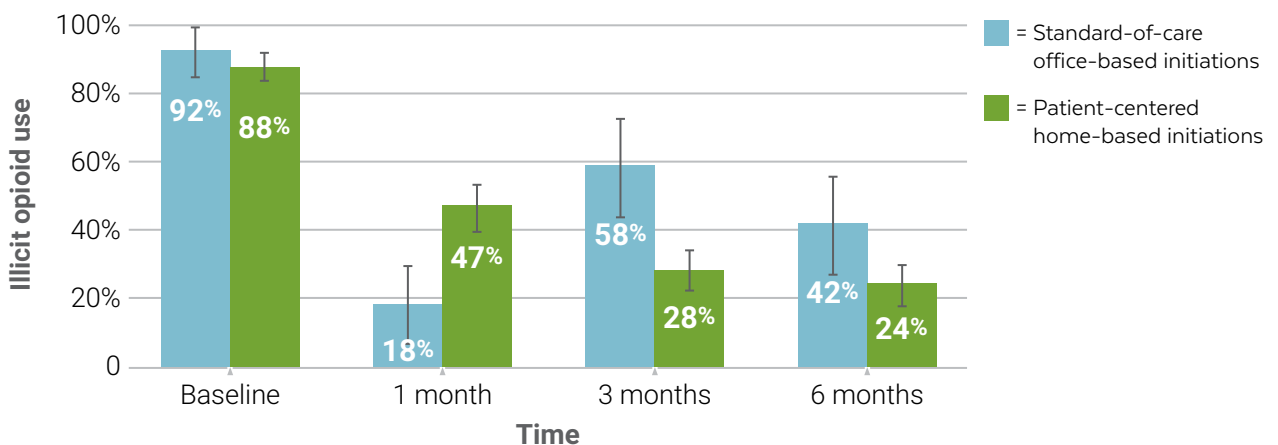
ROUTINE MEDICATION MANAGEMENT CAN BE AS EFFECTIVE AS COMBINING BUPRENORPHINE WITH COUNSELING

While counseling should be sought if available, lack of access should not be a barrier to treatment.²⁷



PATIENTS CAN BE STARTED ON BUPRENORPHINE IN THE OFFICE OR AT HOME

Reductions in opioid use are similar when patients start therapy themselves at home compared to office-based settings.²⁸





Obtaining the DATA 2000 waiver to prescribe buprenorphine for OUD

- The buprenorphine or X waiver is required for providers to prescribe buprenorphine for OUD. Prescribing buprenorphine ONLY for pain does NOT require an X waiver, but may require prior authorization.
- Any MD, DO, NP, CNS, CRNA, or CNM with a state license and DEA number can obtain an X waiver by submitting a Notice of Intent online.
 - Additional training is *no longer required* to prescribe buprenorphine to ≤ 30 patients at a time for OUD.
 - To prescribe buprenorphine to >30 patients, training is required (8 hours for MD or DO, 24 hours for others) and providers must meet SUPPORT Act criteria (i.e. work in qualified practice setting or are boarded in addiction medicine).

- 1 Complete and submit online form: bit.ly/X-waiver_application**
- 2 Receive waiver approval via email or letter from SAMHSA within 45 days.**
- 3 Receive DEA X waiver identification number 7 to 10 business days following waiver approval.**

For more information, go to: bit.ly/X-waiver



Planning for buprenorphine

Formulations

- Keep buprenorphine tablet or film under tongue until dissolved (5-15 min). **DO NOT SWALLOW.**
- OK to cut film in half or quarter pieces.
- Therapy usually involves buprenorphine with naloxone, although the monoformulated product can also be used.

BUPRENORPHINE/NALOXONE (CO-FORMULATED)



Sublingual tablets



Sublingual film

MONOFORMULATED BUPRENORPHINE



Sublingual tablets



Subcutaneous injection



Transdermal patch

Patient education and considerations

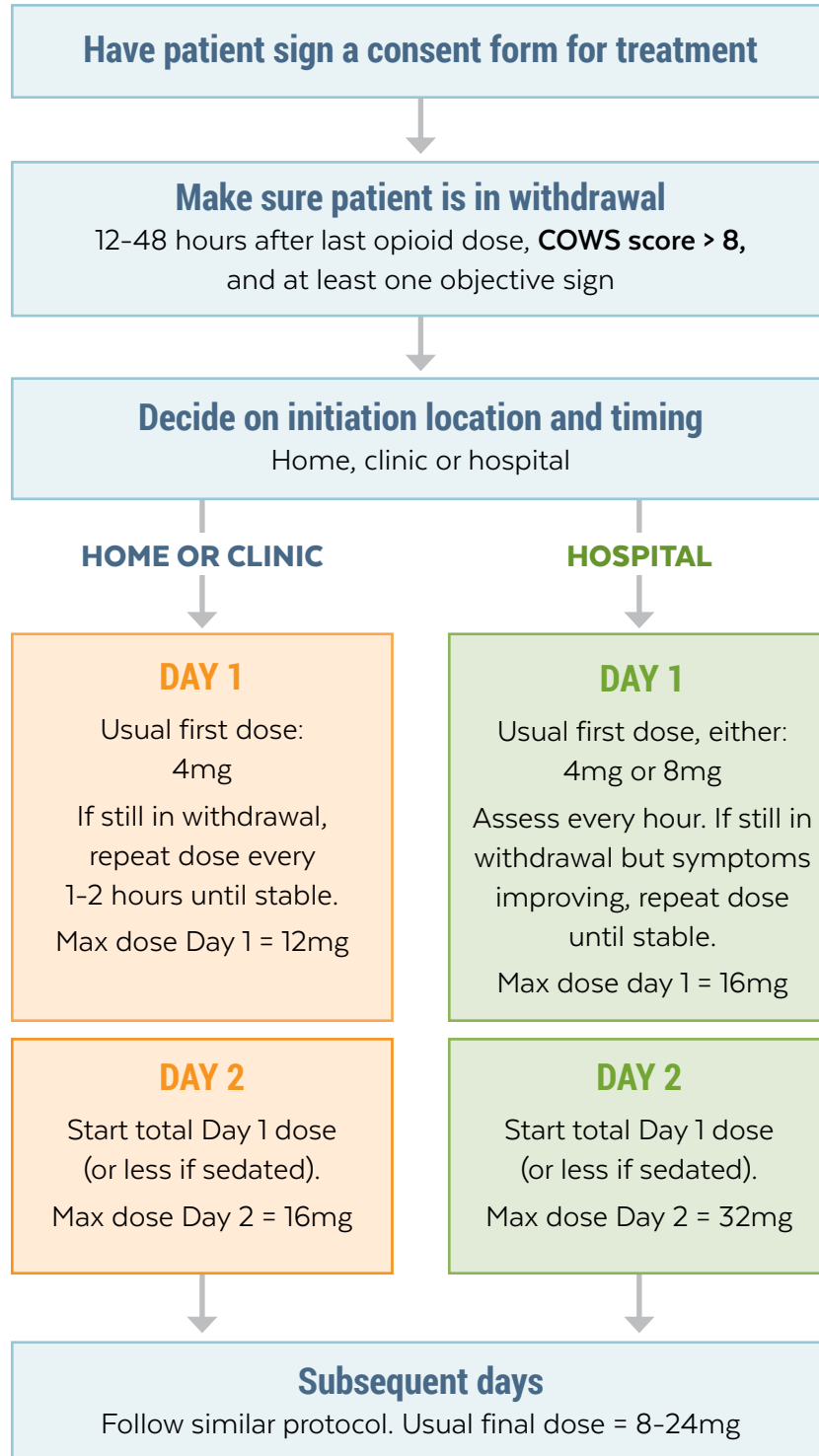
- Manage withdrawal symptoms when starting
- **Side effects:** fatigue, agitation, headache (from naloxone), nausea
 - **Precipitated withdrawal:** too large a dose started too soon after last opioid agonist (patient should call provider or go to the emergency department if severe symptoms present).
- Treatment is as long as needed; longer is usually better, and lifelong is normal

Not contraindications:

- Pregnancy
- Benzodiazepines
- Stimulants/other illicit drugs
- Alcohol



Starting buprenorphine



✓ **CHECK COWS:**
Higher score = less risk
of precipitated withdrawal

Clinical Opioid Withdrawal Scale (COWS): mdcalc.com/cows-score-opiate-withdrawal
COWS has 11 items and up to 48 points.

Look for **subjective symptoms AND at least one objective sign.**

- **Subjective:** insomnia, vomiting, diarrhea, restlessness, anxiety, abdominal cramps, diaphoresis, myalgias/arthralgias, hot flashes, dizziness, tearing, goosebumps, shaking, yawning, twitching, sweating
- **Objective:** restlessness, shivering, rhinorrhea, dilated pupils, tachycardia, yawning, piloerection, tremor, sweating, hypertension



Continuing buprenorphine

- **Document OUD in chart.**
- **Optimal dose varies by patient.**
≥16mg/day may aid in retention, block other opioids, and reduce relapse, pain, and dysphoria.
- **Follow-up visits:** tailor frequency to patient stability. Weekly visits at start of treatment or when unstable; monthly or longer when stable.

Review:

- Buprenorphine adherence, illicit opioid use, UDS, CSMP
 - Mental health and comorbid substance use disorders
 - Healthcare maintenance
- If unsuccessful, consider other OUD medications such as methadone or extended-release naltrexone.

Remember that buprenorphine:

- **Gives patients control** over opioid use.
- **Lowers overdose risk**, even if still using illicit opioids, by binding very tightly to μ receptors.
- **Does not treat other substance use disorders.**



FOR PAIN

- Any formulation can be used, including the transdermal patch.
- Prior authorization may be required.
- No “X” number or waiver required.
- Medication is generally administered 2-3 times daily.
- **Acute pain:** May require a temporary dose increase.
- **Peri-operative pain:** Usually continue buprenorphine (Project Shout has a helpful template: bit.ly/PainControl)



Substance use disorder (SUD) therapies

- **Screening for substance use and SUD:** Ask about type, frequency, amount, route, complications and withdrawal symptoms.
- **Diagnosing SUD:** Use DSM-5 criteria—the criteria apply across substances. The use disorder is considered mild, moderate or severe based on the number of criteria a patient meets.
- Assess the patient's readiness to change.

	Screening tools ^a	Medications	Behavioral interventions ^{29,30}
Nicotine	AAR <ul style="list-style-type: none"> • Ask • Assist • Refer 	<ul style="list-style-type: none"> • Nicotine replacement • Varenicline • Bupropion 	<ul style="list-style-type: none"> • CBT^c • Smoking cessation
Alcohol	CAGE(-AID), AUDIT	<ul style="list-style-type: none"> • Naltrexone IR or ER • Acamprosate • Disulfiram • Gabapentin^b • Topiramate^b 	<ul style="list-style-type: none"> • CBT^c • AA • Mindfulness^c • MI^c
Opioids	TAPS, DAST-10	<ul style="list-style-type: none"> • Buprenorphine • Methadone • ER Naltrexone 	<ul style="list-style-type: none"> • CBT^c • NA • Mindfulness-oriented recovery enhancement
Stimulants	NM ASSIST, TAPS, DAST-10	For methamphetamine: <ul style="list-style-type: none"> • Mirtazapine^b • Bupropion^b 	<ul style="list-style-type: none"> • CBT^c • Contingency management

^a SBIRT can be used to screen for all substances: bit.ly/SBIRT_screen; ^boff-label use; ^c CBT, Mindfulness and MI target both use disorder and depression symptoms

Urine drug screening can help assess whether or not a substance has been used but do not diagnose substance use disorders.





Additional medical care for patients who use drugs

Due to increased risk for various complications, patients who use drugs should also be considered for:



Screening for infections such as HIV, hepatitis B, hepatitis C, sexually-transmitted infections and tuberculosis (at least annually for most patients)



Vaccinations such as hepatitis A, hepatitis B, human papillomavirus, tetanus-diphtheria-pertussis, influenza and pneumococcus



Management of cardiac risk factors, particularly for people who use stimulants or tobacco, including blood pressure and lipid control, as well as smoking cessation



Treatment of other comorbid substance use disorders, including tobacco and alcohol use disorders



Treatment of comorbid psychiatric disorders



Education about safe injection practices and provision of clean injection equipment



Naloxone to reverse the effects of an opioid overdose



Pre- and post-exposure prophylaxis (PrEP and PEP) for HIV prevention

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About this publication

This publication was produced by the Center for Innovation in Academic Detailing on Opioids (CIAO) at the San Francisco Department of Public Health (SFDPH), funded by the California Department of Public Health (CDPH), and supported by Grant Number NU17CE925000 from the Centers for Disease Control and Prevention (CDC). Its contents are solely the responsibility of the authors and do not necessarily represent the official views of SFDPH, CDPH, CDC, or the Department of Health and Human Services. No pharmaceutical company resources were used in the development of these materials. The authors (Phillip Coffin, MD, MIA, Emily Behar, PhD, MS, and Rebecca Martinez, RN, MS, FNP-C) deny any financial conflicts of interest.

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Design and layout: Amy Braddock