

MONTHLY FEATURE CPG SOPR SUMMARY

Date: February 2021

CPG Citation: Hatten BW, Cantrill SV, Dubin JS, Ketcham EM, Runde DP, Wall SP, Wolf SJ. Clinical Policy: Critical Issues Related to Opioids in Adult Patients Presenting to the Emergency Department. *Annals Emerg Med* 2020; 76:e13-e39. <https://doi.org/10.1016/j.annemergmed.2020.06.049>

Downloadable at: <https://www.acep.org/patient-care/clinical-policies/opioids/>
(free online access)

Scope of Guideline: Physicians working in Emergency Departments

Inclusion: Adult patients presenting for unscheduled acute care settings.

Exclusion: Pediatric patients.

Key Words: Opioid, pain, opioid use disorder (OUD), buprenorphine.

CPG Questions:

- 1) In adult patients experiencing opioid withdrawal, is ED-administered buprenorphine as effective for the management of opioid withdrawal compared with alternative management strategies?
- 2) In adult patients experiencing an acute painful condition, do the benefits of prescribing a short course of opioids on discharge from the ED outweigh the potential harms?
- 3) In adult patients with an acute exacerbation of noncancer chronic pain, do the benefits of prescribing a short course of opioids on discharge from the ED outweigh the potential harms?
- 4) In adult patients with an acute episode of pain being discharged from the ED, do the harms of a short concomitant course of opioids and muscle relaxants/sedative-hypnotics outweigh the benefits?

Key Recommendations: *Each recommendation is accompanied by the “strength” of recommendation and the level of evidence (LoE) supporting that recommendation*

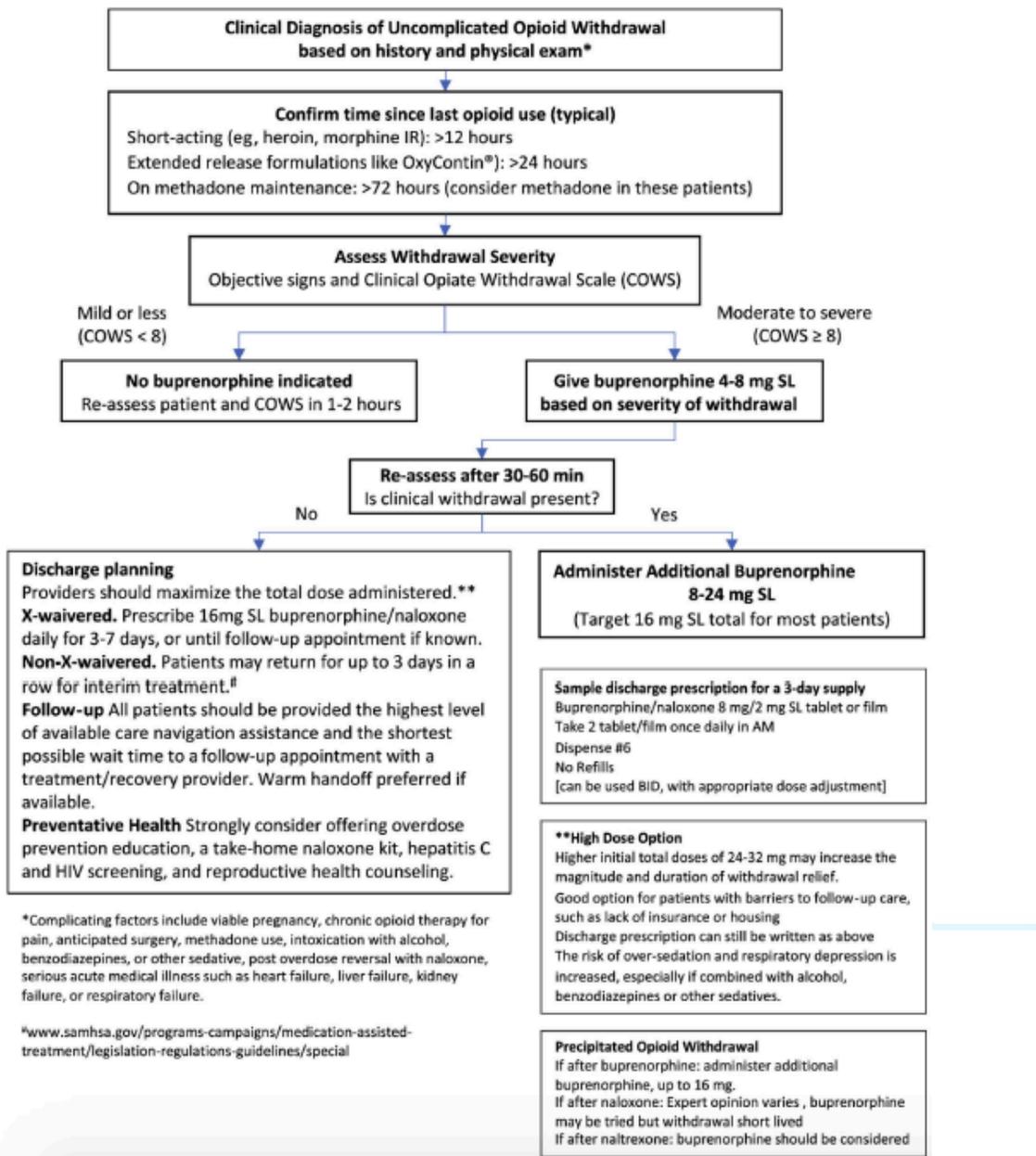
Recommendations	Strength, LoE
FOR Clinical Action 1. When possible, treat opioid withdrawal in the ED with buprenorphine or methadone as a more effective option compared with nonopioid-based management strategies such as the combination of α_2 -adrenergic agonists and antiemetics.	Level B Level B

<p>NEUTRAL Clinical Action</p> <ol style="list-style-type: none"> 1. Preferentially treat opioid withdrawal in the ED with buprenorphine rather than methadone. 2. Preferentially prescribe nonopioid analgesic therapies (nonpharmacologic and pharmacologic) rather than opioids as the initial treatment of acute pain in patients discharged from the ED. 	<p>Level C</p> <p>Level C</p>
<p>AGAINST Clinical Action</p> <ol style="list-style-type: none"> 3. Do not routinely prescribe opioids to treat an acute exacerbation of noncancer chronic pain for patients discharged from the ED. Nonopioid analgesic therapies (nonpharmacologic and pharmacologic) should be used preferentially. 4. Do not routinely prescribe opioids to treat an acute exacerbation of noncancer chronic pain for patients discharged from the ED. Nonopioid analgesic therapies (nonpharmacologic and pharmacologic) should be used preferentially. 	<p>Level C</p> <p>Level C (Consensus)</p>

CLINICAL COMMENTARY:

Q1. Regarding ED-buprenorphine initiation, there is growing evidence supporting this practice for patients experiencing opioid withdrawal, especially with expedited follow-up with addiction services. Suboxone is the preferential ED-initiation option, as it is safer than methadone, with less risk of toxicity due to mixed receptor partial agonism (and ceiling effect on respiratory depression).

There is an easy to follow clinical algorithm to assess opioid withdrawal and initiate ED buprenorphine provided in the Policy. Users should also familiarize themselves with the COWS (Clinical Opioid Withdrawal Scale) tool in order to measure severity of opioid withdrawal (similar to CIWA scoring for alcohol withdrawal).



APPENDIX 1 Clinical Opiate Withdrawal Scale

For each item, circle the number that best describes the patient's signs or symptom. Rate on just the apparent relationship to opiate withdrawal. For example, if heart rate is increased because the patient was jogging just prior to assessment, the increase pulse rate would not add to the score.

Patient's Name: _____		Date and Time ____/____/____:_____	
Reason for this assessment: _____			
Resting Pulse Rate: _____beats/minute <i>Measured after patient is sitting or lying for one minute</i> 0 pulse rate 80 or below 1 pulse rate 81-100 2 pulse rate 101-120 4 pulse rate greater than 120	GI Upset: over last 1/2 hour 0 no GI symptoms 1 stomach cramps 2 nausea or loose stool 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. 0 no report of chills or flushing 1 subjective report of chills or flushing 2 flushed or observable moistness on face 3 beads of sweat on brow or face 4 sweat streaming off face	Tremor observation of outstretched hands 0 no tremor 1 tremor can be felt, but not observed 2 slight tremor observable 4 gross tremor or muscle twitching		
Restlessness Observation during assessment 0 able to sit still 1 reports difficulty sitting still, but is able to do so 3 frequent shifting or extraneous movements of legs/arms 5 unable to sit still for more than a few seconds	Yawning Observation during assessment 0 no yawning 1 yawning once or twice during assessment 2 yawning three or more times during assessment 4 yawning several times/minute		
Pupil size 0 pupils pinned or normal size for room light 1 pupils possibly larger than normal for room light 2 pupils moderately dilated 5 pupils so dilated that only the rim of the iris is visible	Anxiety or Irritability 0 none 1 patient reports increasing irritability or anxiousness 2 patient obviously irritable or anxious 4 patient so irritable or anxious that participation in the assessment is difficult		
Bone or Joint aches <i>If patient was having pain previously, only the additional component attributed to opiates withdrawal is scored</i> 0 not present 1 mild diffuse discomfort 2 patient reports severe diffuse aching of joints/muscles 4 patient is rubbing joints or muscles and is unable to sit still because of discomfort	Gooseflesh skin 0 skin is smooth 3 piloerection of skin can be felt or hairs standing up on arms 5 prominent piloerection		
Runny nose or tearing <i>Not accounted for by cold symptoms or allergies</i> 0 not present 1 nasal stuffiness or unusually moist eyes 2 nose running or tearing 4 nose constantly running or tears streaming down cheeks	Total Score _____ The total score is the sum of all 11 items Initials of person completing assessment: _____		

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

This version may be copied and used clinically.

Opioid withdrawal symptoms may vary with opioids consumed (eg. heroin within 12hrs, methadone within 30hrs). It is uncomfortable, but not life-threatening. Symptomatic control of opioid withdrawal may also include the following:

- 1) Pain control: Non-opioid analgesics
- 2) Nausea/vomiting: Anti-emetics
- 3) Diarrhea: loperamide

- 4) Mixed withdrawal symptoms: alpha-2-adrenergic agents (clonidine, lofexidine) may be helpful for these. This is based on limited reviews in the literature (Gowing *et al*, Cochrane 2009; Gottlieb *et al*, Annals Emerg Med Syst Rev Snapshot 2017). Benzodiazepines may be useful for muscle cramps, anxiety and catecholamine excess, but this must be a careful ED consideration in the context of SUD assessment, and concomitant mental health concerns/medications use.

Of note, initiation of ED buprenorphine should happen with patients in active withdrawal. Use of buprenorphine in nonwithdrawal patients using opioids may induce withdrawal,

It is **critical** for patients being initiated with buprenorphine (or methadone) to be referred/ confirmed for follow-up in a rapid addiction assessment medicine (RAAM) clinic, so as not to lose continuity of opioid agonist Rx initiated in the ED. Ideally this should be an integrated continuity of initiation/referral program that is pre-established with your ED.

Additional support info for ED buprenorphine initiation is linked at: <http://www.drugabuse.gov/ed-buprenorphine> and <http://www.medicine.yale.edu/edbup>.

Q2. Treating acute pain problems in the ED should ideally be done with non-opioids if possible. There is high quality recent evidence/guidance supporting the role of NSAIDs & acetaminophen in acute musculoskeletal non-low back pain conditions (Busse *et al*, Annals Int Med 2020). For primarily neuropathic pain conditions, treatment with gabapentinoids, TCAs, duloxetine or cannabinoids can be effective and opioid-sparing in the ED.

Treating ED acute pain effectively yet safely is an appropriate patient-oriented goal, and opioids could have a role in managing acute pain and preventing transition (wind-up) to chronicity (Feizerfan 2015). Appropriate screening of ED acute pain patients for risk of long-term opioid use is warranted, although the usual opioid dependency screening tools (eg. SOAPP, COMM, Opioid Risk Tool) have not been validated in ED settings, or proven to be not useful in ED screening. Having said that, just as every person who has a drink of alcohol does not become an alcoholic, every opioid consumer does not eventually become an opioid addict, especially if using a short duration of medication in the acute phase. Informed shared-decision making (SDM) with the acute pain patient is paramount to achieve an appropriate treatment goal, and should be documented accordingly. Of note, using an Alternatives to Opioids (ALTO) first strategy has been shown to reduce opioid prescribing yet maintain patient satisfaction (Duncan *et al*, Am J Emerg Med 2019).

There is a **small but non-zero risk of prolonged use** in opioid-naïve patients after receiving an initial opioid script in the ED (Riva *et al*, Annals Int Med 2020). As such, multiple academic and government regulatory guidance documents promote opioid avoidance in acute pain situations, followed by a short course of low-potency opioids (ideally ≤ 3 days, no longer than 7 days), with a total morphine equivalence of <90-100mg total for the discharge script. If using non-morphine choices, consult online calculators to determine conversion factors to morphine-equivalence (MEQ). Where possible, jurisdictional PDMP's should be consulted prior to providing potential duplicate scripts. It is also important to ensure that all opioids are stored safely (in order to minimize loss/diversion), and all potential common adverse effects are addressed (eg. constipation). Stopping and returning unused opioids is also

important to avoid inadvertent unauthorized use (eg. household children), or other diversion concerns. For example, it has been shown that many ED opioid scripts are neither completely filled nor consumed, resulting in an excess number of unused pills available for misuse/diversion (Daoust *et al*, 2018).

Of note, Daoust *et al* (Acad Emerg Med 2019) that some patients who are still using opioids 3mo after the index visit may be using legitimately for ongoing pain problems, but not misusing for non-pain purposes. In a related study, they found that patients on a “severe” pain arc 14days after ED visit may be associated with higher ED discharge pain severity & opioid use, but further detailed risk stratification factors are not yet determined (Daoust *et al*, Annals Emerg Med 2019).

In summary, there is a role for potentially providing opioids for the treatment of ED acute pain, but this would be ideally after offering non-opioid alternatives first, and then providing a limited course of lower-potency opioids if needed.

Q3. For acute exacerbations of chronic non-cancer pain (CNCP), ED physicians should offer non-opioid analgesia instead of altering/augmenting opioids. Many jurisdictions may restrict the number of physicians who can prescribe to a single patient, and these are frequently monitored in jurisdictional prescription drug monitoring programs (PDMPs). There is also a potential benefit of reducing progression to OUD with incremental opioids consumed. The counter-balancing harm might include leaving acute pain untreated in CNCP patients. Increased risk factors for developing OUD include concurrent mental health disorders, alcohol and other substance use disorders (AUD, SUD). Further long-term opioid use was associated with ED opioid scripts longer than 5 days, and ongoing use past 30days.

Overall, this Policy recommendation suggests that even a short course of acute opioids for CNCP has risks that outweigh any negligible/nominal benefits.

Q4. There is a confirmed risk of prescribing opioids in patients with other centrally-acting agents, like benzodiazepines and muscle relaxants (increased risk of respiratory depression), although these statements are based on a sparse base of lower-quality evidence. Congruent with discussions above, it is preferred to use other therapeutic alternatives that are not necessarily psychoactive, or at risk of negative drug interactions; these may be limited, however. A thorough review of medications is needed before prescribing any risky medications in ED, including review of all psychoactive agents (eg. Bzds, muscle relaxants, anti-depressants, analgesics, etc.), before considering any opioid scripts upon discharge. All discussions should also be documented on the clinical chart.

Prior Guideline Recommendations/Relevant Evidence:

This Policy does not update questions from the 2012 Policy (use of state prescription drug monitoring databases, opioid prescribing for acute low back pain, nor use of US short-acting Schedule II vs III opioids). This Policy also excludes commentary on opioid use for specific pain conditions (eg. acute headache, addressed in 2019 Headache Policy). Finally, this policy doesn't address naloxone prescribing for ED opioids with at-risk patients being discharged.

There are multiple recent guidance documents and evidence reviews that address various elements of opioid prescribing in acute pain conditions, but most of the evidence in these summaries are weak/inconclusive, or indirect at best. A lack of ED opioid advice in high-profile guidelines has been noted previously (Upadhye *et al*, 2019).

Disclaimer (if stated): None

Funding reported: Project support by ACEP

Grading System Used: ACEP Clinical Policies ABC/I-II-III framework.

IOM Guideline “Trustworthiness” Checklist

Rating Domain	Rating (Good/Fair/Poor)
Establishing transparency	Good
Managing conflict of interest in CPG development group	Good
Group composition (range of stakeholders involved)	Fair (no patient/public stakeholders)
Critical evaluation of supporting evidence	Fair; searches limited to English articles, electronic databases and bibliography searches, expert inputs
Framing recommendations based on supporting evidence	Good
Clear articulation of recommendations	Good
External review by relevant stakeholders/ organizations*	Good
Updating schedule	Fair (last CPG 2012)
Implementation issues	Poor

*Internal/external inputs sought from: emergency physicians, clinical pharmacists, Am Acad Clinical Toxicology, ABEM, Am Soc Addiction Med, ACEP Medical-Legal committee and ACEP Quality & Patient Safety committee.