Managing Patient Pain through Fentanyl Withdrawal

Jim Walsh, MD Addiction Recovery Service Swedish Medical Center May 2024



Morris

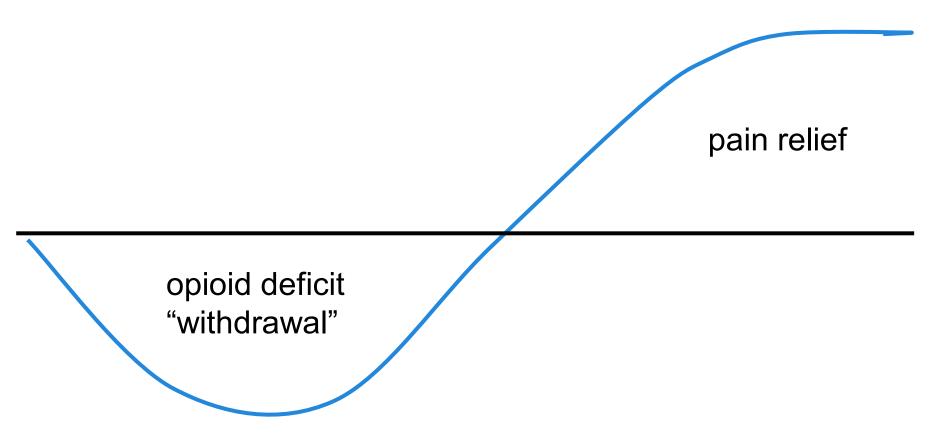
37-year-old man, smoking 1 gram fentanyl & methamphetamine daily

Cellulitis, large open wound with eschar on lower leg, possible osteomyelitis. Will need surgical debridement

Left AMA from another hospital twice last month

Tried buprenorphine several times "it never worked for me"

Giving Opioids



How much opioid is 1 gram smoked fentanyl ??

Fentanyl purity ~ 4% => 40 mg Bioavailability of smoked opioid (heroin) around 40% => 16 mg

16 mg fentanyl / day = 16,000 mcg ~= 1600 mg IV Morphine Equivalent 3200 mg po oxycodone / day ~= 500 mg po oxycodone q4 240 mg IV hydromorphone / day = 30 mg IV q3 1200 po hydromorphone / day = 150 mg po q3 480 mg po methadone / day

Ancillary non-opioid medications to reduce withdrawal symptoms

Tizanidine 2-4 mg q4 (or clonidine 0.1 q2 prn) Hydroxyzine 25-50 mg q4 Gabapentin 300 mg q4 Mirtazapine or Trazodone for sleep Imodium 2 mg q3 prn diarrhea Dicyclomine 10-20 mg q4 prn stomach cramps

These meds help with jerking, sweating, cramping, vomiting, diarrhea and insomnia.

Patients will still have **fatigue**, **dysphoria**, **deep aching & hyperalgesia**.

Persistent impact of opioid withdrawal

Most immune parameters tested are suppressed following drug withdrawal. Recovery time to baseline response levels varies in the studies. In the single report of withdrawal in humans, immune function was suppressed for up to 3 years.

... immune system abnormalities in heroin addicted patients can be restored to almost normal values by controlled treatment with methadone and buprenorphine.

Giving Opioids

- You may need a lot.
- But how much is too much?
- For acute peri-operative pain: *if the patient is breathing, it isn't too much.* (respiratory rate >= 12) Assess the person, not the numbers

What about holding for sedation?

PRN Pain

Communication about pain can be complicated

When I tell you about my pain, I need... immediate relief prevention of anticipated suffering caring validation respect

9 - 10

SEVERE

Giving Opioids

You are treating both current misery and the fear of future pain / withdrawal

Aggressive early dosing may increase the patient's confidence and decrease overall opioid medication needed.

Some patients won't believe it is working unless they can feel it 'kick in'.

Giving Opioids

It is helpful to stress that prevention of opioid withdrawal is something the patient deserves and is a goal of our care – although our efforts may still be imperfect.

Giving the patient a sense of control can decrease the anticipation of pain.

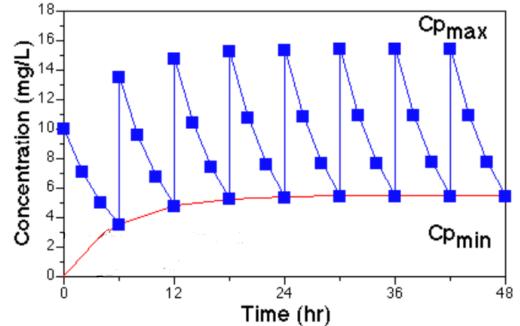
Reducing attachment

Pay attention to reinforcing events that promote salience of opioid doses

Speed of onset

Difference between nadir and peak

Relief of pain / withdrawal as reinforcers



Reducing attachment

Pay attention to reinforcing events that promote salience of opioid doses

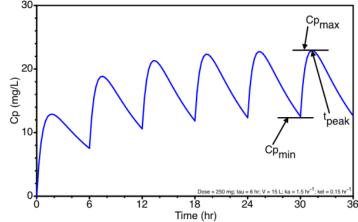
Cp_{max} Speed of onset 20 Cp (mg/L) Difference between peak 10 nadir and peak Dose = 250 mg; tau = 6 hr; V = 15 L; ka = 1.5 hr⁻¹; kel = 0.15 h Relief of pain / withdrawal 12 24 18 30 Time (hr) as reinforcers

Whenever possible ...

Oral medications rather than IV medications slower onset

Frequent dosing avoid a lower nadir, and thus a smaller delta

Scheduled rather than prn dosing operant conditioning minimize conflict between patient and caregivers



Short acting oral Opioids

Scheduled oral + prn oral, *an example* Oxycodone 15 mg q4h scheduled PLUS Oxycodone 15 mg q4h prn for "pain or withdrawal not relieved by schedule doses"

Hydromorphone 4 mg q4h scheduled PLUS Hydromorphone 4-8 mg q4h prn for "pain or withdrawal not relieved by scheduled doses"

PCA Opioids

More frequent dosing that RN given q1-2h prn allows lower nadir and smaller delta per dose

Higher doses than used for non tolerant patients, e.g.

Instead of hydromorphone 0.2 - 0.6 mg bolus dose, use 0.5 - 1 mg bolus dose

Dose q 8 minutes dose?

No maximum

Slow onset: 4 hours to peak effect Long duration: $t\frac{1}{2}$ 18-36 hours Accumulates over ~3 days

Highest initial dose that should be safe in all patients: 30 mg

Slow onset: 4 hours to peak effect Long duration: t¹/₂ 18-36 hours Accumulates over ~3 days

Highest initial dose that should be safe in all patients: 30 mg

Divided dosing to improve safety e.g. 20 mg q4h, rather than 120 mg qAM (hold if respiratory rate < 12)

What about sedation?

Slow onset: 4 hours to peak effect Long duration: t¹/₂ 18-36 hours Accumulates over ~3 days

Highest initial dose that should be safe in all patients: 30 mg

Divided dosing to improve safety (hold if respiratory rate < 12)

New OTP rules allow split BID dosing at methadone clinic

https://www.federalregister.gov/documents/2024/02/02/2024-01693/medications-for-the-treatment-of-opioid-use-disorder

Slow onset: 4 hours to peak effect Long duration: t¹/₂ 18-36 hours Accumulates over ~3 days

Highest initial dose that should be safe in all patients: 30 mg

Divided dosing to improve safety (hold if respiratory rate < 12)

New OTP rules allow split BID dosing at methadone clinic

Higher methadone doses seem to be more common during fentany era

Initial loading dose: 30 mg x 1

BID dosing: 20 or 30 mg BID (hold for resp rate < 12)

Add'l 10 mg po q4h prn opioid withdrawal prn COWS score or "patient complaint of opioid withdrawal" (hold for resp rate < 12)

Initial loading dose: 30 mg x 1

If prn doses are not likely to work well, scheduled dosing can be more frequent e.g. 10 mg q6h or 20 mg TID (hold if resp rate < 12)

slower escalation of methadone, makes short acting opioids more important

Initial loading dose: 30 mg x 1

BID dosing 20 or 30 mg BID (hold for resp rate < 12)

Add'l 10 mg po q4h prn opioid withdrawal prn COWS score or "patient complaint of opioid withdrawal" (hold for resp rate < 12)

Adjust scheduled dose each day, taking into account

- ~ Total methadone per day over last 2-3 days
- ~ Total short acting opioid needed
- ~ Severity of ongoing withdrawal symptoms

Initial loading dose: 30 mg x 1

BID dosing 20 or 30 mg BID (hold for resp rate < 12)

Add'l 10 mg po q4h prn opioid withdrawal prn COWS score or "patient complaint of opioid withdrawal" (hold for resp rate < 12)

Continue ancillary medications while withdrawal symptoms remain bothersome despite current amount of opioid

Initial loading dose: 30 mg x 1

BID dosing 20 or 30 mg BID (hold for resp rate < 12)

Add'l 10 mg po q4h prn opioid withdrawal prn COWS score or "patient complaint of opioid withdrawal" (hold for resp rate < 12)

Taper down short acting opioid as methadone doses become adequate to resolve withdrawal symptoms

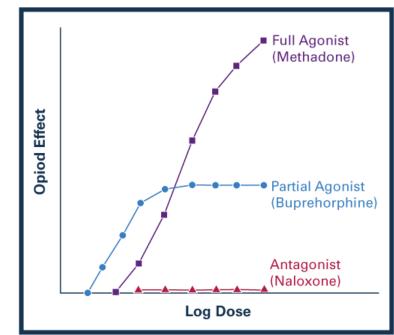
Day	Methadone	Hydromorphone	Ancillary Meds
1	30 + 10 x 2 = 50 mg	4 mg q4 sched + 12 mg prn	yes
2	30 BID + 10 x 4 = 100 mg	4 mg q4 sched + 16 mg prn	yes
3	40 BID + 10 x 3 = 110	4 mg q4 sched + 4 mg prn	yes
4	45 BID + 10 x 3	4 mg q4 sched, no prn	no
5	50 BID + 10 x 2 = 120 mg	2 mg q4 sched	no
6	55 BID + 10 x 2 = 130 mg	2 mg q4 sched	no
7	60 BID + 10 x 2 = 140 mg	none	no
8	70 BID + 5 x 3 = 155 mg	none	no
9	80 BID + 5 x 2 = 170 mg	none	no

Starting buprenorphine

Partial agonist

Risk for precipitated withdrawal concurrent low dose initiation vs rapid high dose initiation

Ceiling effect – typically assumed to be equivalent to 30-40 mg methadone per day



Buprenorphine concurrent low dose initiation

- How low to start? typically 0.5 mg SL or less
- How frequent to dose? BID to q4h
- How quickly to increase doses? Typically doubled daily but sometimes faster
- When to remove full agonists? Usually after "full" buprenorphine doses Stopping abruptly or gradually tapering

Ancillary medications may be needed.

Buprenorphine concurrent low dose initiation

Swedish Protocol

0.075 mg q4 x 2 doses, 0.15 mg q4 x 2 doses,0.3 mg q4h x 2 doses, 0.6 mg q4h x 2 doses, 1 mg q4h x 2 doses, 2 mg q4 x 2 doses,4 mg q4 x 2 doses, 8 mg q4 x 2 doses, then 8 mg TID

Non opioid management of pain

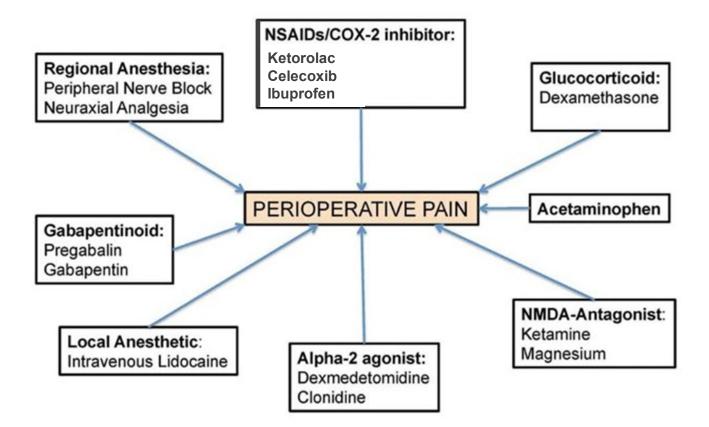
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Non opioid management of pain

Multimodal Opioid-Sparing Analgesia



State of the art opioid-sparing strategies for post-operative pain in adult surgical patients, Gabriel et al, Expert Opin Pharmacother. 2019 Jun; 20(8):949-961

Acetaminophen

Analgesic and opioid-sparing benefits Some studies show benefit when started pre-operatively No demonstrated benefit to IV formulation over oral

Don't exceed the recommended maximum daily dose 4 gram / day in adults. Severe alcoholism, stable cirrhosis, body weight <50 kg dose should be reduced to 2 grams per day

Order scheduled, not prn

State of the art opioid-sparing strategies for post-operative pain in adult surgical patients, Gabriel et al, Expert Opin Pharmacother. 2019 Jun;20(8):949-961 https://emcrit.org/ibcc/pain/

NSAID

Significant pain relief and reduced postoperative morphine consumption (about 50%). Several studies demonstrated improvement in postoperative function, including earlier return to oral intake, time to ambulation, and decreased urinary retention

Contraindications

Renal dysfunction / AKI – esp with reduced renal perfusion Increased leakage of bowel anastomosis? Bone healing? Bleeding?

Order scheduled, not prn

The Use of NSAIDs in the Postoperative period: Advantage and Disadvantages, Cosmo et al J Anesth Crit Care Open Access. 2015;3(4Ł . % (% & " Perioperative Use of NSAIDs: Safety and Guidelines

https://www.cadth.ca/sites/default/files/pdf/htis/2018/RB1205%20Perioperative%20use%20of%20NSAIDS%20Final.pdf

Regional

Epidural can be left in several days, but may increase risk of infection

Peripheral Nerve Blocks

Local infiltration

Lidocaine patch

Significant reduction in post-sternotomy pain and total dose of rescue opioids used for 48 hours

Infection rates associated with epidural indwelling catheters for seven days or longer: systematic review and meta-analysis. Ruppen et al, BMC Palliat Care 6, 3 (2007) Folino TB, Mahboobi SK. Regional Anesthetic Blocks. [Updated 2021 Oct 14]. In: StatPearls [Internet]. Treasure Island (FL) Analgesic effects of a 5% lidocaine patch after cesarean section: A randomized placebo-controlled double-blind clinical trial. de Queiroz et al, J Clin Anesth. 2021 May 8;73:110328 The 5% lidocaine patch for decreasing postoperative pain and rescue opiod use in sternotomy: A prospective, randomized, double-blind trial. Parker, et al Clin Ther. 42(12):2311-2320

Gabapentinoids

V] b X h c-delta subunit of voltage gated calcium channels, which decreases the release of glutamate, noradrenaline (norepinephrine), and substance P. This is believed to contribute to their anticonvulsant, analgesic, and anxiolytic actions.

Dizziness (19%), somnolence (14%), and gait disturbance (14%) are commonly reported with gabapentin

Pregabalin

Absorption of gabapentin is saturable, leading to a non-linear pharmacokinetic profile. Bioavailability is 80% at lower doses such as 100 mg q8, but only 27% at 1600 mg q8

Unlike gabapentin, absorption of pregabalin is not saturable, and the drug has a linear pharmacokinetic profile.

Gabapentin is slowly and variably absorbed, with peak plasma concentrations around 3h. Pregabalin is quickly absorbed, peak blood concentrations within an hour

D f Y [U V U] b V] b X] b d [elta slubuzhi]; 6 bx] grb atter t la on that of V Y gabapentin.

Ketamine

NMDA antagonist => Analgesia, sedation, anesthesia May oppose development of tolerance / hyperalgesia

Low-dose i.v. ketamine reduces opioid consumption by 40% Opioid-sparing effect of ketamine only while actively administered

The dose ranged from

0.15 mg/kg bolus + 0.12 mg/kg/h to 0.5 mg/kg bolus + 0.6 mg/kg/h

At around 0.2-0.3 mg/kg/hr ketamine may cause somnolence, agitation, euphoria, or hallucinations. Some patients may experience disturbing hallucinations.

Psychomimetic side effects will abate rapidly after pausing the ketamine infusion

The use of intravenous infusion or single dose of low-dose ketamine for postoperative analgesia: a review of the current literature. Jouguelet-Lacoste et al, Pain Med. 2015 Feb;16(2):383-40 What Is the Role of Ketamine in Postoperative Pain Management? Bruno Maranhao, Stephen H. Gregory, Journal of Cardiothoracic and Vascular Anesthesia, Volume 34, Issue 3, 2020, Pages 592-593 https://emcrit.org/ibcc/pain/#ketamine

Ketamine

Too many units!

Very	low	risk	dose	of	0.12	mg/kg/hr
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At Swedish Hospital, order defaults to units of *mcg/kg/min*, but can also be ordered in a confusing array of measurements.

On the medical floor the maximum allowed rate is 10 mg/hr (not weight based)

For a 70 kg person , 0.12 mg/kg/hr => 8.4 mg/hr For a 100 mg person, 0.12 mg/kg/hr => 12 mg/hr

mcg	
mcg/kg	
mcg/kg/hr	
mcg/kg/min	
mg	
mg/kg	
mg/kg/hr	

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Clonidine, Tizanidine, Dexmedetomidine, Guanfacine

Reduce adrenergic outputs from the locus coeruleus, a decrease in sympathetic tone

Analgesia & sedation

Hypotension and bradycardia

Dexmedetomidine

Studies assessing its benefit for postoperative analgesia when used during the perioperative period with mixed results.

Many studies have demonstrated reduce postoperative opioid use when given intraoperatively.

Clonidine

clonidine decreased pain scores and time to first request of opioid

intraoperative clonidine reduced opioid consumption while not exacerbating sedation or side effects

3 mcg/kg bolus dose followed by a continuous infusion of 0.3 mcg/kg/hour was considered the optimal intravenous dose

Dexmedetomidine	Clonidine	Tizanidine	Guanfacine
+++	++	+	++
+++	+++	+++	ş
i-shivering ++		++	ş
		++	
++	+++	+	++
Only IV	85%	20-34%	
Infusion takes ~30-60 minutes to reach equilibrium levels	~2 hours	~1.5 hours	~4 hours
	12 hours	2.5 hours	16 hours
Mostly renal	50/50 renal/hepatic	Hepatic CYP450 1A2 into inactive metabolites.	
Sedation Multimodal analgesia	Sedation, Insomnia Hypertension Multimodal analgesia	Muscle spasm Multimodal analgesia	Sedation, Insomnia
 Do not bolus. 0-1.4 mcg/kg/min. Start infusion at the high end (e.g. 1-1.4 mcg/kg/min) without a bolus. Observe carefully & down-titrate over 30-90 min, as it takes effect. 	Sedation, opioid withdrawal Start: 0.2-0.3 mg qóhr Increase to 0.5 mg qóhr Insomnia Start ~0.2 mg QHS Increase to 0.4 mg QHS <u>Multimodal analgesia</u> Start 0.1-0.2 mg q12hr Increase to 0.3-0.4 mg q8hr	<u>Multimodal analgesia</u> Start: ~4 mg q8hr. May up- titrate to ~8 mg q8hr. Using an increased dose in the evening may enhance sleep. (Max dose is 12 mg q8hr)	Sedation, opioid withdrawal Start: 1 mg q12 Increase: to 3-4 mg/d total Insomnia 1-2 mg PO ~4 hrs before sleep
Bradycardia/hypotension	Bradycardia/hypotension	Hepatic injury CYP 2A1 inhibitor medication	Bradycardia/hypotension
	+++ ++ Conly IV Infusion takes ~30-60 minutes to reach equilibrium levels Mostly renal Sedation Multimodal analgesia Do not bolus. 0-1.4 mcg/kg/min. Start infusion at the high end (e.g. 1-1.4 mcg/kg/min) without a bolus. Observe carefully & down-titrate over 30-90 min, as it takes effect.	+++ +++ ++ ++ ++ ++ ++ +++ ++ +++ ++ +++ Only IV 85% Infusion takes ~30-60 minutes to reach equilibrium levels ~2 hours Infusion takes ~30-60 minutes to reach equilibrium levels ~2 hours 12 hours 12 hours Mostly renal 50/50 renal/hepatic Sedation Multimodal analgesia Sedation, Insomnia Hypertension Multimodal analgesia Image: Do not bolus. 0-1.4 mcg/kg/min. Start: 0.2-0.3 mg qóhr Increase to 0.5 mg qóhr Increase to 0.5 mg qóhr Start infusion at the high end (e.g. 1-1.4 mcg/kg/min) without a bolus. Observe carefully & down-titrate over 30-90 min, as it takes effect. Start 0.1-0.2 mg QHS Multimodal analgesia	+++++++++++++++++++++++++++++++++++++++Conly IV85%20-34%Infusion takes ~30-60 minutes to reach equilibrium levels~2 hours~1.5 hoursInfusion takes ~30-60 minutes to reach equilibrium levels~2 hours~1.5 hoursMostly renal50/50 renal/hepaticHepatic CYP450 1A2 into inactive metabolites.Sedation Multimodal analgesiaSedation, Insomnia Hypertension Multimodal analgesiaMuscle spasm Multimodal analgesiaImage: Do not bolus. 0-1.4 mcg/kg/min.Sedation, opioid withdrawal Start ~0.2 mg qHS Increase to 0.5 mg qóhr Increase to 0.5 mg qóhr Increase to 0.4 mg QHS Increase to 0.3 -0.4 mg q8hr.Multimodal analgesiaStart ol-0.2 mg qHS Increase to 0.3 -0.4 mg q8hrMultimodal enalgesiaStart ol-0.2 mg qHS Increase to 0.3 -0.4 mg q8hr.Multimodal enalgesiaStart ol-0.2 mg q12hr Increase to 0.3 -0.4 mg q8hr.Multimodal enalgesiaStart ol-0.2 mg q12hr Increase to 0.3 -0.4 mg q8hr.Multimodal enalgesiaStart ol-0.2 mg q12hr Increase to 0.3 -0.4 mg q8hr.Multimodal enalgesiaStart ol-0.2 mg q12hr Increase to 0.3 -0.4 mg q8hr.Multimodal enalgesia </td

analgesic and anti-hyperalgesic effect is obtained through inhibition of the voltage-gated sodium channels, voltage-gated calcium channels, various potassium channels, NMDA receptors, glycine system, and G protein pathways

Lidocaine has been associated with reduced opioid consumption, earlier return of bowel function, faster rehabilitation, and shorter hospital stays.

There is evidence that intravenous lidocaine prevents hypersensitization and hyperalgesia.

Intravenous lidocaine was also shown to be associated with improved postoperative cognitive function.

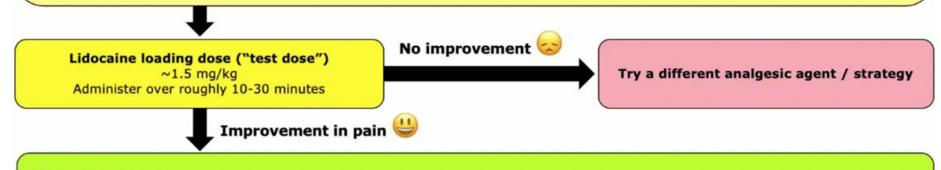
Can have a beneficial effect as a prophylactic measure to prevent the development of chronic pain.

State of the art opioid-sparing strategies for post-operative pain in adult surgical patients, Gabriel et al, Expert Opin Pharmacother. 2019 Jun;20(8):949-961 Non-opioid analgesics: Novel approaches to perioperative analgesia for major spine surgery. Dunn et al Best Pract Res Clin Anaesthesiol 2016 Mar;30(1):79-89

Possible approach to using a lidocaine infusion for analgesia

Good candidate for IV lidocaine infusion

- Either one of the following:
 - i) Practitioner is able to check lidocaine levels occasionally
 - · ii) Patient is non-intubated, so symptoms can be used to monitor for lidocaine toxicity
- No heart block, severe heart failure, shock, or multi-organ failure
- Renal function adequate (e.g., GFR >30 ml/min)
- Liver function adequate (e.g., Bilirubin <1.5 mg/dL)
- Not at unusually high risk of seizure
- No interacting medications (check on Medscape or other program)



Lidocaine infusion

Infuse at ~1 mg/kg/hour ideal body weight.

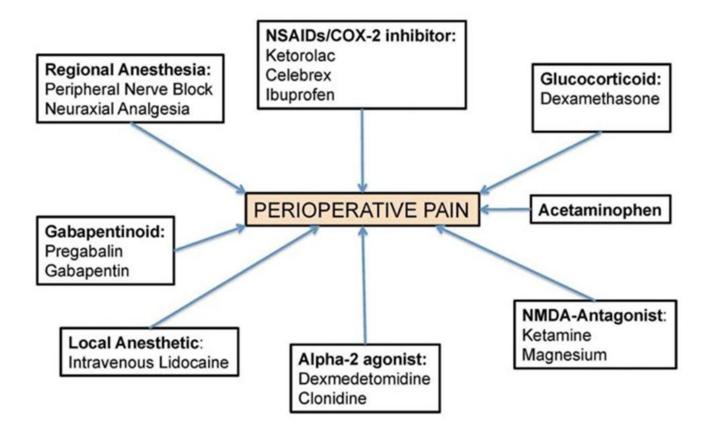
Monitor for toxicity

- Check levels daily if possible (but test unavailable in most hospitals).
- Monitor for early signs of toxicity (discontinue infusion if these occur)
 - Paresthesias or numbness (especially perioral)
 - Auditory or visual disturbance, light-headedness
 - Tinnitus
 - Metallic taste
 - Confusion, somnolence

The Internet Book of Critical Care

Non opioid management of pain

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State of the art opioid-sparing strategies for post-operative pain in adult surgical patients, Gabriel et al, Expert Opin Pharmacother. 2019 Jun; 20(8):949-961

Patients already on MOUD

Don't stop or reduce methadone or buprenorphine Divided dosing may offer some advantage

Maximize non opioid pain treatment

Full agonist opioids at 2, 3, 4 or 5 times normal dosing may be needed

but the duration that opioids are needed should not be longer than other patients with the same condition

Multi-society Working Group cb'Cd]c]X'IgY'8]gcfXYf'

Recommendations for Postoperative Management

Clinical Pearl: Buprenorphine home dose should not be routinely discontinued or tapered perioperatively

All surgery types (elective, urgent, emergent)

Buprenorphine Management

Mild/Moderate Pain:

Home bupre-norphine dose can be split into two times per day/three times per day dosing to provide an analgesic

Severe Pain:

- Home buprenorphine dose can be split into three times per day dosing to provide improved analgesic effect.
- Consider increasing dose of buprenorphine to 24-32 mg given in divided doses or using buprenorphine intravenous 0.3 mg every 6
- toring if increasing or

Acute Pain with Other Opioids

- Maximize non-
- Treat acute pain additional opioids as indicated in patients with OUD, avoid the opioid of past misuse
 - Fentanyl derivatives and hydromorphone likely to be most high receptor
 - Consider close monitoring if increasing or adding opiate for pain

Nonopioid Pharmacological Management

- Regional anesthesia (Epidural catheter, Transversus Abdominus Plane block. peripheral nerve blocks with or without catheters including but not limited to erector spinae plane blocks, paravertebral block, femoral/adductor canal block, etc)
- Local infiltration by surgical team
- Intraoperative or postoperative ketamine/
- Topical agents (e.g. ice, lidocaine ointment
- NSAIDs when indicated le.g. ketorolac. ibuprofen, etc)
- Intravenous vs. oral acetaminophen when indicated
- Antineuropathic agents when indicated or if comorbid anxiety (e.g. gabapentinoids, antidepressants such as TCAs, SNRIs, etc]
- Muscle relaxants as indicated le.g. baclofen, tizanidine, cyclobenzaprine; avoid benzodiazepines or carisoprodol)

Pharmacological Management

- Ice to surgical site
- Position change Relaxation
- strategies and mindfulness (e.g. guided "apps" such as the free app "Calm"]
- Peer recovery
- **Distraction aligned** with interests le.g.
- family and social support, etc]

Buprenorphine management in the perioperative period: educational review and recommendations from a multisociety expert panel. Kohan L, et al. Reg Anesth Pain Med 2021;46:840-859.

Post anesthesia care unit

Discharge home if satisfactory pain control, coordinate buprenorphine dosing plan with prescriber

Postoperative Disposition

- Inpatient floor admission as applicable
- Consider ICU admission if uncontrolled pain and respiratory concerns

Respect Gets Respect

- Sit down
- Slow down
- Eye position
- "Not a whiff of judgement"
- Notice opportunities for affirmation / validation
- Don't let anxiety or defensiveness keep you from showing your genuine self

Nursing process

Be predictable. Keep promises. Manage expectations White board

Treating PRN meds as scheduled: inquire at the ordered frequency about need for medication

Limit Setting is a Team Sport

Setting limits vs Seeking control

It's not about what the patient is going to do, it is about what we are going to do.

Inconsistency is agony for both patient and staff.

Creating consistency requires communication.

Don't hesitate to gather a care conference.

This may be necessary every day or every shift.

Getting Ready for Discharge

change to PO dosing... and hold!

Patients who came to the hospital actively using may return to active use after discharge.

"Detoxing" in the hospital is unlikely to have much impact on sobriety after leaving.