





Physiology of opioid use

<u>Physical dependence</u> -normal adaptations to exposure of drug creating a physiological reliance on the drug

Addiction -a primary, chronic and relapsing brain disease characterized by an individual pathologically pursuing reward

Overdose by respiratory depression (slowed breathing) which may cause death

<u>Tolerance</u> -need for higher doses to achieve pain relief or euphoric response, or continuation of the same dose no longer has a similar response

Withdrawal – wide range of symptoms that occur after stopping or reducing opioids

<u>Opioid induced hyperalgesia (OIH)</u> – paradoxical worsening of pain despite aggressive opioid therapy <u>Long term changes to the brain</u> in decision making and behavior regulation









Post-operative pain independently increases the risk of chronic opioid use

- 0.4% of non-operative patients on opioids versus 5.6% of post operative patients
 - The surgeries most associated with development of chronic use were
 - Total knee arthroplasty
 - Open cholecystectomy
 - Total hip arthroplasty
 - Simple mastectomy
 - Laparoscopic cholecystectomy
 - Open appendectomy
 - Cesarean delivery

Risks of development of chronic post operative use were similar to those seen for development of opioid use disorder

Hah JM, Bateman BT, Ratliff J, Curtin C, Sun E. Chronic Opioid Use After Surgery: Implications for Perioperative Management in the Face of the Opioid Epidemic. Anesth Analg 2017 Nov;125(5):1733-1740. doi: 10.1213/ANE.00000000002458. PMID: 29049117; PMCID: PMC6119469.

Reasons to reevaluate opioid use

• No pain reduction, no improvement in function or patient requests to discontinue therapy

• Severe unmanageable adverse effects (e.g., drowsiness, constipation, cognitive impairment)

• Dosage indicates high risk of adverse events (e.g., doses of 90 MEDD* and higher) • Non-adherence to the treatment plan or unsafe behaviors (e.g., early refills, lost/stolen prescription, buying or borrowing opioids, failure to obtain or aberrant UDT)

• Concerns related to an increased risk of SUD (e.g., behaviors, age < 30, family history, personal history of SUD⁺)

 Overdose event involving opioids Medical comorbidities that can increase risk (e.g., lung disease, sleep apnea, liver disease, renal disease, fall risk, advanced age)
Concomitant use of medications that increase risk (e.g., benzodiazepines)
Mental health comorbidities that can worsen with opioid therapy (e.g., PTSD, depression, anxiety)

Pain Management Opioid Taper Decision Tool. https://www.pbm.va.gov/PBM/AcademicDetailingService/Documents/Pain_Opioid_Taper_Tool_IB_10_939_P96820.pdf







Tapering

Existing evidence on the most effective tapering speed for chronic opioid patients is limited

 If the patient has been on continuous opioids for more than 30 days, they typically fall in this category

The 2019 HHS Guide for Clinicians on the Appropriate Dosage Reduction or Discontinuation of Long-Term Opioid Analgesics states that a decrease of 10% or less of a patient's original dose per week or slower is less likely to trigger withdrawal symptoms and is often better tolerated than more rapid tapers

- Slower tapers are thought to result in better long-term patient outcomes
- The higher the initial opioid dosage, the slower the tapering speed should be for a successful taper
- Slower tapers may be indicated for complex patients (someone on a daily opioid dose greater than 90 MME, who presents with comorbidities, or who presents with other complications)
- Tapers can be slowed or paused if patient experiences adverse side effects, but generally should not be reversed
- Reversal of an opioid taper should be carefully considered and include analysis of the risks and benefits in a shared decision-making process
- Short term increases in pain are to be expected as the dose decreases.
- · The last part of the taper is typically the most difficult and most likely to see withdrawal symptoms

Nebraska Pain Management Guidance Document https://dhhs.ne.gov/DOP%20document%20library/Pain%20Management%20Pain%20Guidance.pdf Best Practices, Research Gaps, and Future Priorities to Support Tapering Patients on Longterm Opioid Therapy for Chronic Non-cancer Pain in Outpatient Settings https://nam.edu/wr content/upioads/2020/08/Tapering-Paper-two-Pager_FIANL.pdf

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Tapering

Slow tapering

- Long acting, 5-10% per week
- Short acting, 5-15% per week
- Will likely need to slow down toward the last portion, typically 25-30% remaining
- May need to decrease to 5% per week or pause taper if withdrawal symptoms start
- · Only taper one drug type at a time i.e. not benzodiazepines and opioids simultaneously

Nebraska Pain Management Guidance Document <u>https://dhhs.ne.gov/DOP%20document%20Bibrary/Pain%20Guidance.pdf</u> Best Practices, Research Gaps, and Future Priorities to Support Tapering Patients on Longterm Opioid Therapy for Chronic Non-cancer Pain in Outpatient Settings <u>https://nam.edu/wpcontent/uploads/2020/08/Tapering-Paper-Two-Pager_TINAL_pdf</u>



Provide behavioral health support Make sure patients receive appropriate psychosocial support. Ask the patient how best to support them. Acknowledge patient fears about tapering. Many patients fear stigma, withdrawal symptoms, pain, and/or abandonment. Make yourself or a team member available to the patient to provide support, if needed. Encouragement is key to success. Let patients know that while pain might get worse at first, many people have improved function without worse pain after tapering opioids. Follow up frequently. Watch closely for signs of anxiety, depression, suicidal ideation, and opioid use disorder and offer support or referral as needed. Collaborate with mental health providers and with other specialists as needed to optimize psychosocial support for anxiety related to the taper. HHS Guide for Clinicians on the Appropriate Dosage Reduction or Discontinuation of Long-Term Opioid Analgesics. https://www.hl /sites/default/files/2019-10/Dosage F duction Discontinuation.pd

Managing an opioid taper

• Non-opioid medications and non-pharmacologic therapies can help manage pain during a taper

• Co-prescription of naloxone at initial patient assessment and throughout the tapering process is recommended to decrease the risk of fatal opioid overdose

• Providers should consider slowing or pausing a taper if the patient experiences serious withdrawal symptoms

• Providers should consistently monitor patients undergoing opioid withdrawal and adapt withdrawal symptom treatment accordingly as needed

• If the patient re-escalates their dose of opioids, the provider should reassess the patient for behavioral health disorders and/or substance use disorder and facilitate treatment before attempting another taper

 Behavioral health comorbidities may impact the success of efforts to taper and/or discontinue opioid therapy

 Patients who are co-prescribed opioid analgesics, benzodiazepines, or other central nervous system depressants are at a higher risk for overdose and should be given special consideration

Nebraska Pain Management Guidance Document https://dhhs.ne.gov/DOP%20document%20library/Pain%20Management%20Pain%20Guidance.pdl





