

Pain Management and Opioids: Balancing Risks and Benefits

PRESENTED BY



UPDATED SEPTEMBER 2022



FACULTY INFORMATION



Rebecca Loveless, MHS, PA-C, DFAAPA graduated from the Quinnipiac University PA Program in 2000. She has practiced in orthopedics, emergency medicine, CT Surgery, ICU and hospitalist medicine. She is currently working for Vituity as a hospitalist and Washington University School of Medicine in a local St. Louis, MO ED.

Ms. Loveless has spent numerous hours lecturing to health care workers and law enforcement officials about responsible controlled substance prescribing, as well as the drug abuse epidemic that has taken over our country. She currently serves on the board of the Missouri Academy of PAs and is their Chief HOD Delegate.

In her free time, she spends time being a mom to her boys, Zeke and Keagan, and puppies, Skye and Maya.



DISCLOSURE:

No relevant relationships with ineligible companies to disclose within the past 24 months



FACULTY INFORMATION



Dennis Rivenburgh, MS, ATC, PA-C, DFAAPA has been practicing as a PA since 1997 when he graduated from the George Washington University PA Program. He is currently working as a PA in Sports Medicine at Johns Hopkins University Department of Orthopaedics.

Prior to that he served as the Program Director of the Anne Arundel Community College/University of Maryland Baltimore Collaborative PA Program. In addition, he has worked as a PA in Sports Concussion, Primary Care/Sports Medicine, Emergency Medicine and Orthopaedic Sports Medicine.

Dennis has been a preceptor and clinical instructor throughout his career. He is also a certified athletic trainer. Dennis was the former chair of the AAPA Governance Commission. He currently is a member and served as former Chair of the AAPA Judicial Affairs Commission.



DISCLOSURE:

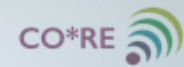
No relevant relationships with ineligible companies to disclose within the past 24 months



ACKNOWLEDGMENTS

Presented by **AAPA**, a member of the CO*RE Collaborative, nine interdisciplinary organizations working together to improve pain management and prevent adverse outcomes.

This activity is supported by an independent educational grant from the Opioid Analgesics REMS Program Companies (RPC). Please see https://www.opioidanalgesicrems.com/Resources/Docs/List_of_RPC_Companies.pdf for a listing of REMS Program Companies. This activity is intended to be fully compliant with the Opioid Analgesic REMS education requirements issued by the U.S. Food and Drug Administration.



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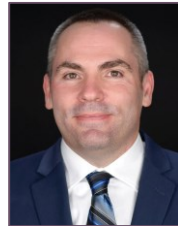
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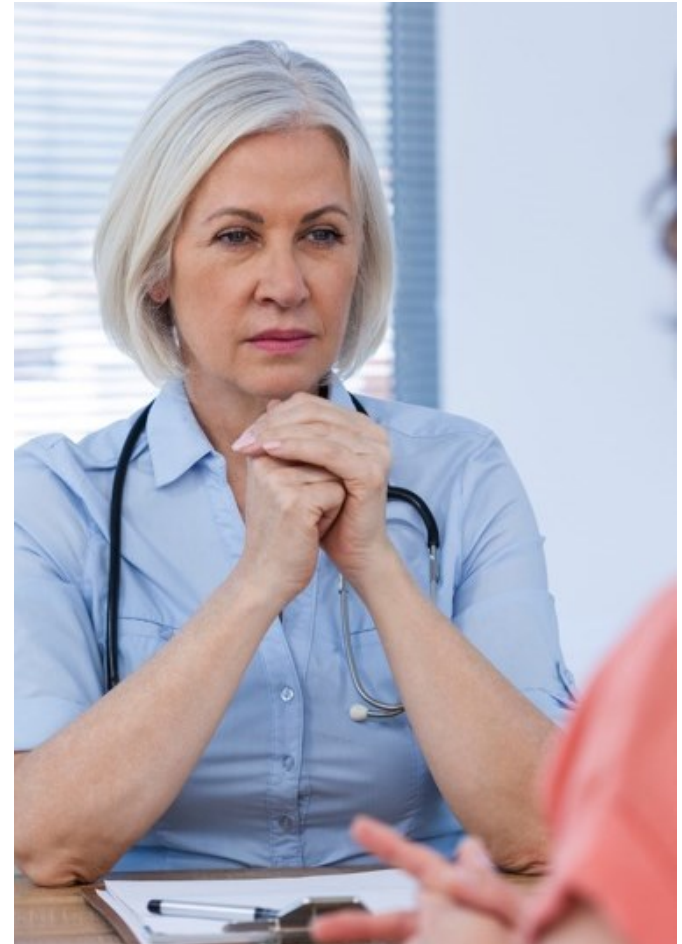
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**None of the Faculty
Advisors, Reviewers or
Planners for this educational
activity have relevant
financial relationships with
ineligible companies to
disclose.**



BY THE END OF THIS SESSION YOU WILL BE ABLE TO:

- Describe the pathophysiology of pain as it relates to the concepts of pain management.
- Accurately assess patients in pain.
- Develop a safe and effective pain treatment plan.
- Identify evidence-based non-opioid options for the treatment of pain.
- Identify the risks and benefits of opioid therapy.
- Manage ongoing opioid therapy.
- Recognize behaviors that may be associated with opioid use disorder.





WHY ARE WE HERE?

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CO*RE STATEMENT

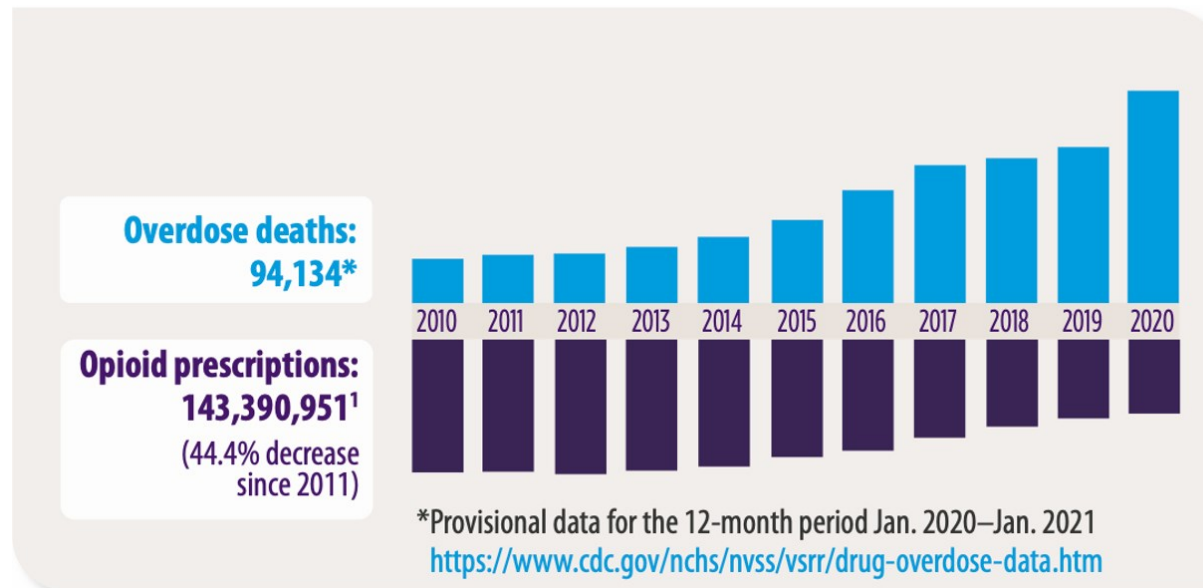
Historical over-prescribing, a massive and sustained exposure to opioids, and a gap in treatment availability have fueled the opioid overdose epidemic in the United States.

When prescribed well, and used as prescribed, opioids can be valuable tools for effective pain management.

Unintended consequences may occur from both under-prescribing (unmanaged pain) and over-prescribing (injudicious use of opioids).

This course does not advocate for or against the use of opioids. We intend to help health-care providers manage pain without putting vulnerable patients at risk for misuse or opioid use disorder. The goal is to keep our patients, our communities, and ourselves SAFE.

REDUCTIONS IN OPIOID PRESCRIBING HAVE NOT LED TO REDUCTIONS IN OVERDOSE DEATHS



SOURCE: <https://www.ama-assn.org/delivering-care/overdose-epidemic/physicians-progress-toward-ending-nation-s-drug-overdose-epidemic>

TYPES OF OPIOIDS



NATURALLY OCCURRING OPIATES	SEMI-SYNTHETIC OPIOIDS	SYNTHETIC OPIOIDS
Codeine Morphine	Buprenorphine Hydrocodone Hydromorphone Oxycodone Oxymorphone	Alfentanil Fentanyl Methadone Remifentanil Tapentadol
AGONISTS	PARTIAL AGONISTS	ANTAGONISTS
Codeine Methadone Morphine Oxycodone	Buprenorphine Nalbuphine	Naloxone Naltrexone

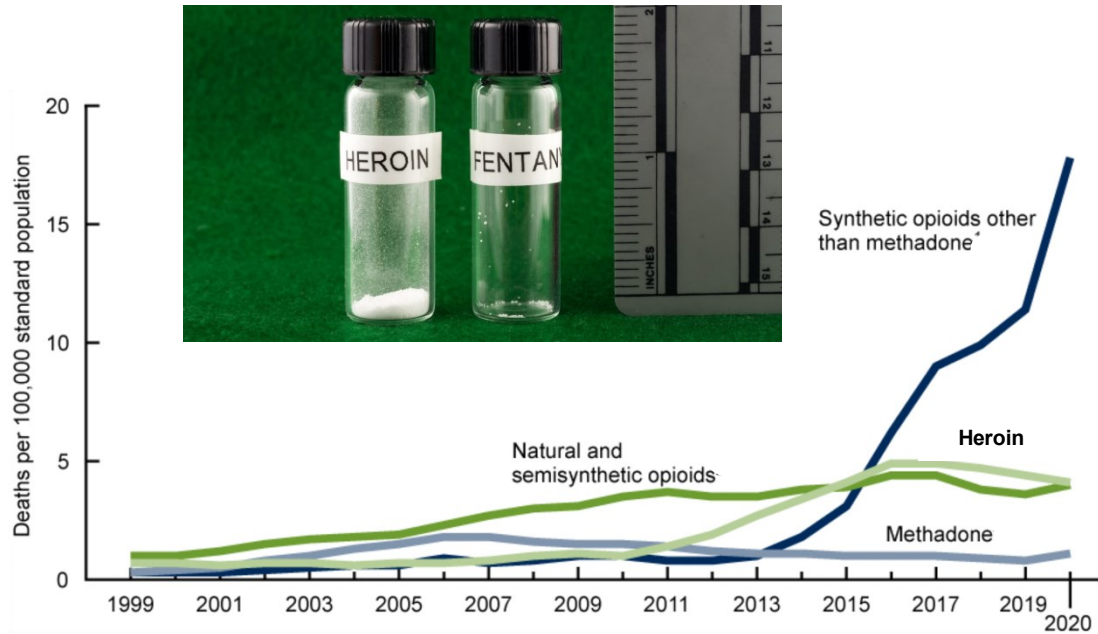
DEA SCHEDULED DRUGS



SCHEDULE	DESCRIPTION	EXAMPLES
I	High potential for abuse; no currently accepted medical use	Cannabis, ecstasy, heroin, LSD, peyote
II	High potential for abuse, which may lead to severe psychological or physical dependence	Codeine, fentanyl, hydrocodone combination products, hydromorphone, meperidine, methadone, morphine, opium, oxycodone,
III	Potential for abuse, which may lead to moderate or low physical dependence or high psychological dependence	Products containing ≤ 90 mg codeine per dose, buprenorphine, benzphetamine, phendimetrazine, ketamine, anabolic steroids
IV	"Low potential" for abuse	Alprazolam, carisoprodol, clonazepam, clorazepate, diazepam, lorazepam, midazolam, temazepam, tramadol
V	Low potential for abuse	Cough preparations containing ≤ 200 mg codeine/100 ml

Complete list of products covered under the Opioid Analgesic REMS available at: <https://www.opioidanalgesicrems.com/products.html>

OPIOID OVERDOSE DEATHS BY TYPE OF OPIOID



SOURCE: <https://www.cdc.gov/nchs/images/databriefs/401-450/db428-fig4.png>, <https://www.cdc.gov/nchs/products/databriefs/db428.htm>

PHOTO SOURCE: New Hampshire State Police Forensic Lab

FENTANYL AND FENTANYL ANALOGUES

ON THE PLUS SIDE:

- Short-acting and easily metabolized
- Useful for controlling acute pain

ON THE MINUS SIDE:

- Cheap and easy to manufacture
- Easy to store, easy to smoke, easy to conceal
- Unpredictable dosing with non-prescribed fentanyl
- Two causes of fentanyl OD death: opioid-induced respiratory depression and rigid chest wall syndrome; higher or repeated doses of naloxone are required to reverse a fentanyl overdose.



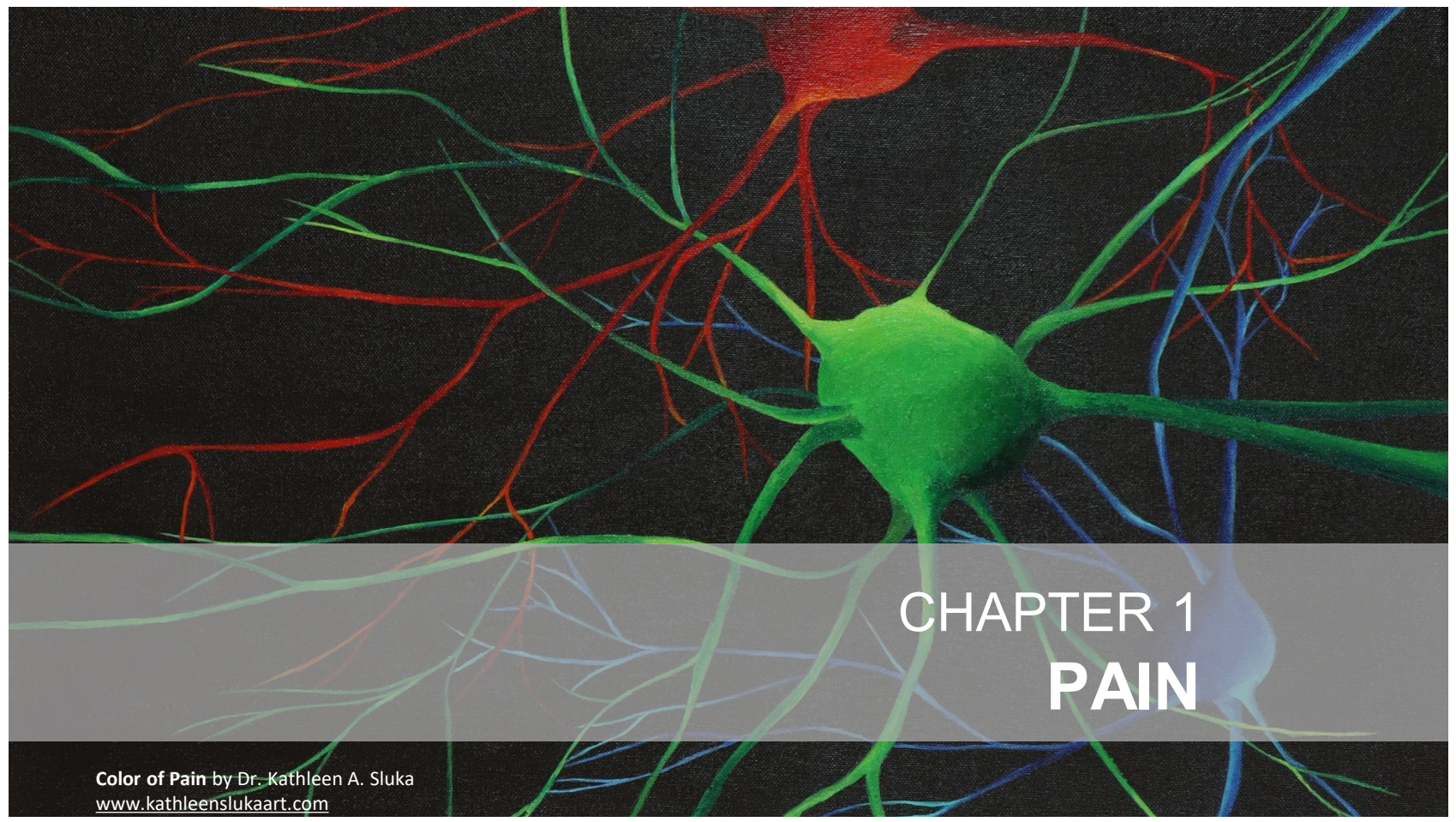
RISKS VERSUS BENEFITS OF PRESCRIBED OPIOIDS

POTENTIAL RISKS

- Life-threatening respiratory depression/overdose
- Development of SUD/OD
- Diversion
- Inadvertent exposure to family and pets
- Interactions with other meds and substances
- Neonatal abstinence syndrome
- Physiologic dependence and withdrawal

POTENTIAL BENEFITS

- Analgesia
- Option for patients with contraindications for non-opioid analgesics
- Relieves suffering
- May improve function and quality of life



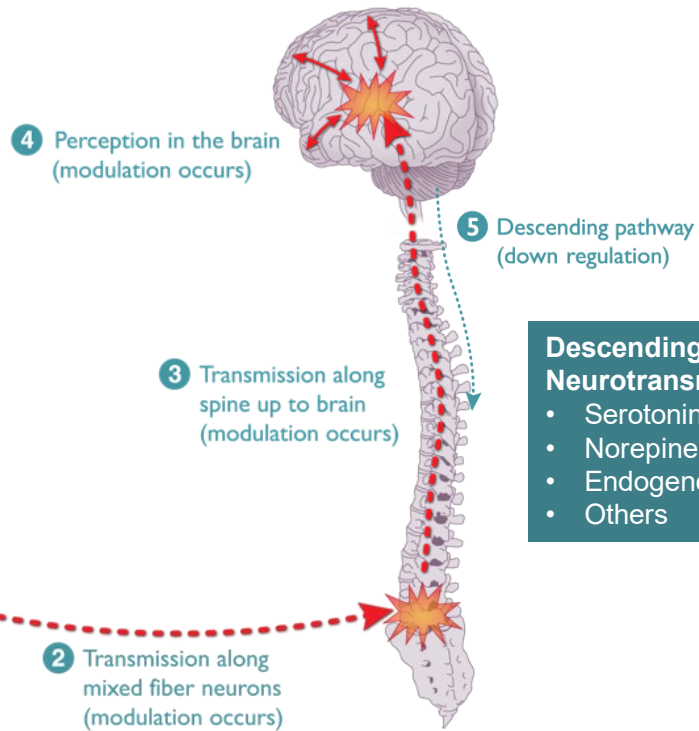
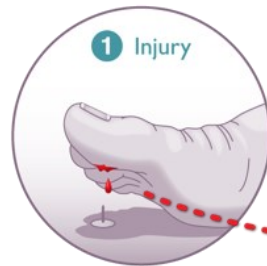
CHAPTER 1
PAIN

Color of Pain by Dr. Kathleen A. Sluka
www.kathleenslukaart.com

THE NEUROMECHANISMS OF PAIN

Peripheral Pain Modulators:

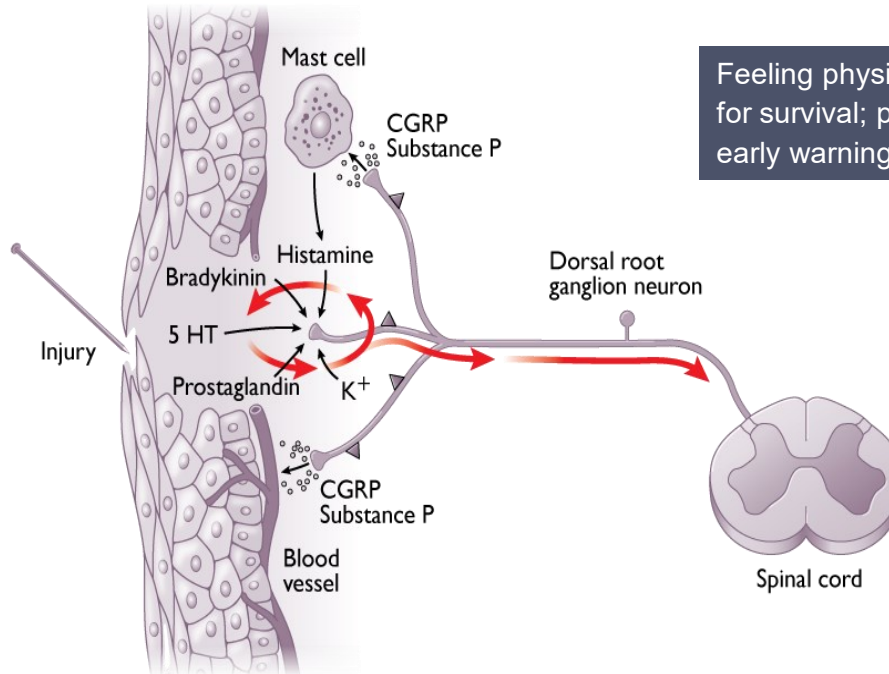
- Histamines
- Prostaglandins
- Cytokines
- Bradykinin
- Substance P
- Others



Descending Neurotransmitters:

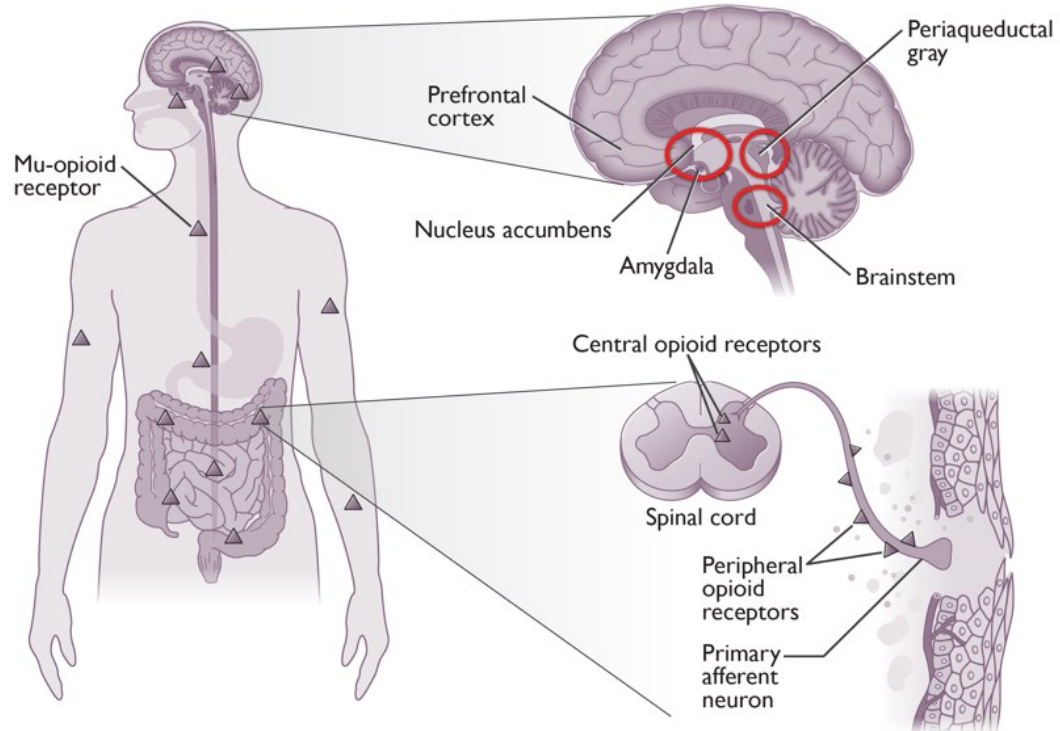
- Serotonin
- Norepinephrine
- Endogenous opiates
- Others

MEDIATORS OF PERIPHERAL NOCICEPTION



Feeling physical pain is vital for survival; pain is the body's early warning system.

OPIOID RECEPTOR LOCATIONS



PAIN

“An unpleasant sensory and emotional experience associated with, or resembling that associated with, actual or potential tissue damage.”

—IASP (July 2020)

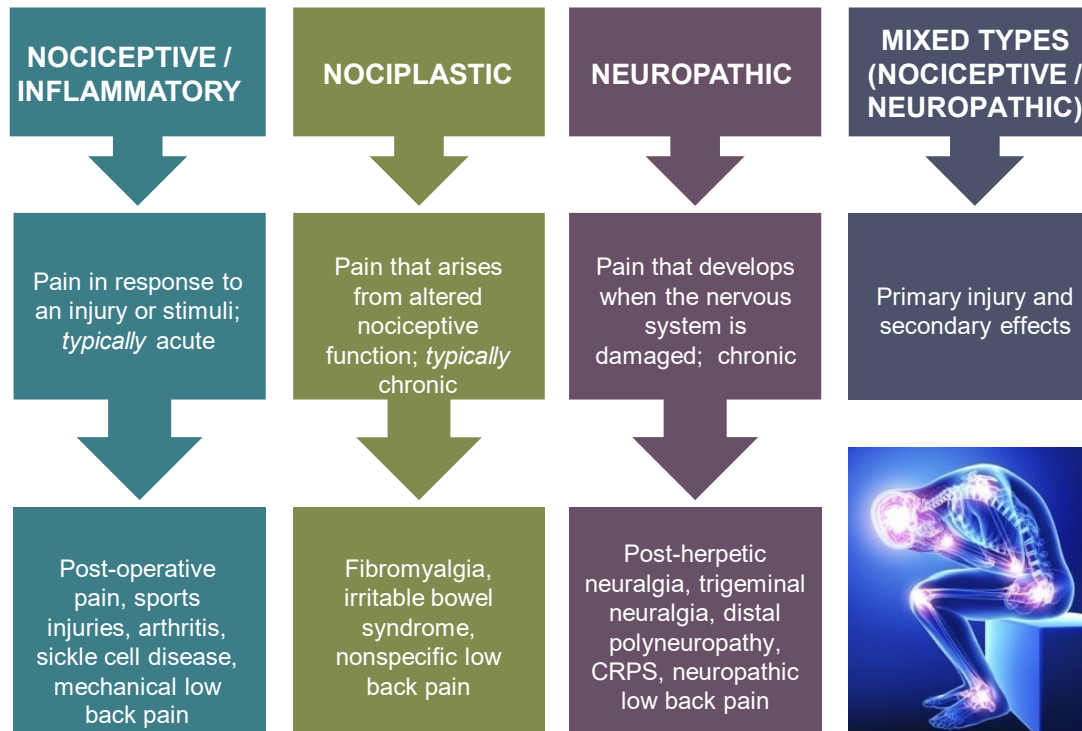
ACUTE

- Acute pain duration of < 1 month
- Sudden onset, self-limiting
- Ideally resolves with healing
- Triggered by tissue damage and inflammation
- Has protective value
- Inflammatory mediation
- **Subacute**, pain that continues for 1-3 months, can become chronic

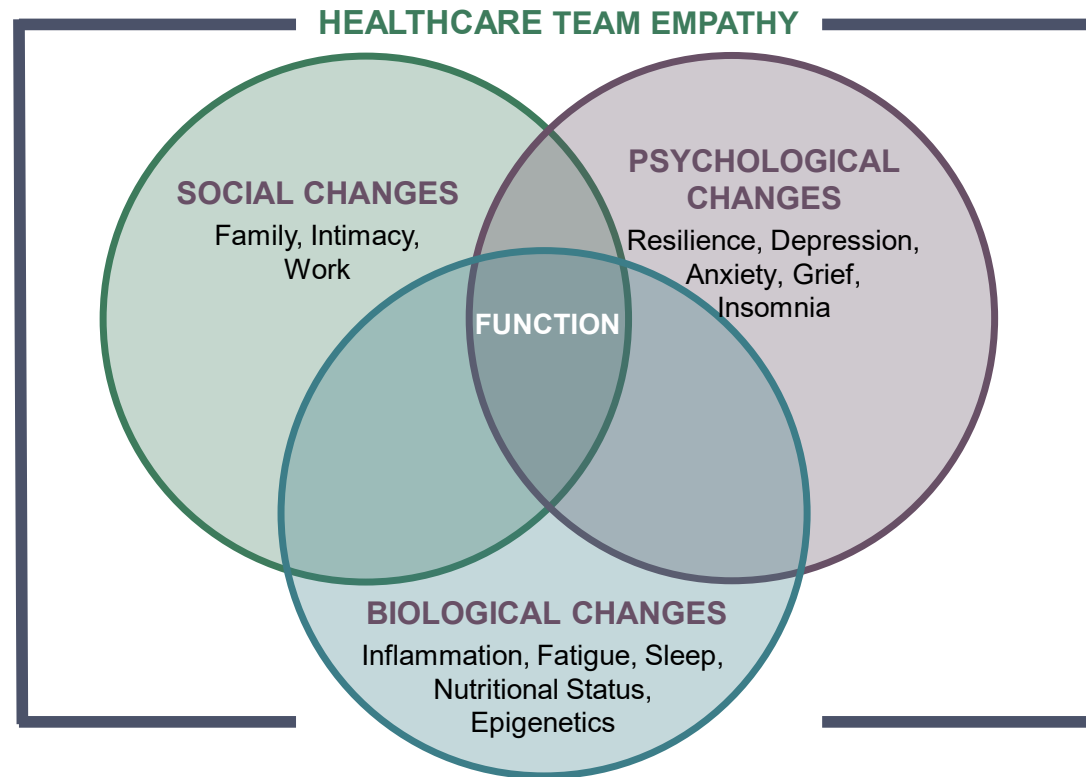
CHRONIC

- Lasting 3 months or longer
- Generally steady-state or worsening
- Persists beyond normal healing period
- Serves no value
- Peripheral and central sensitization

TYPES OF PAIN



THE EXPERIENCE OF PAIN: A BIOPSYCHOSOCIAL MODEL

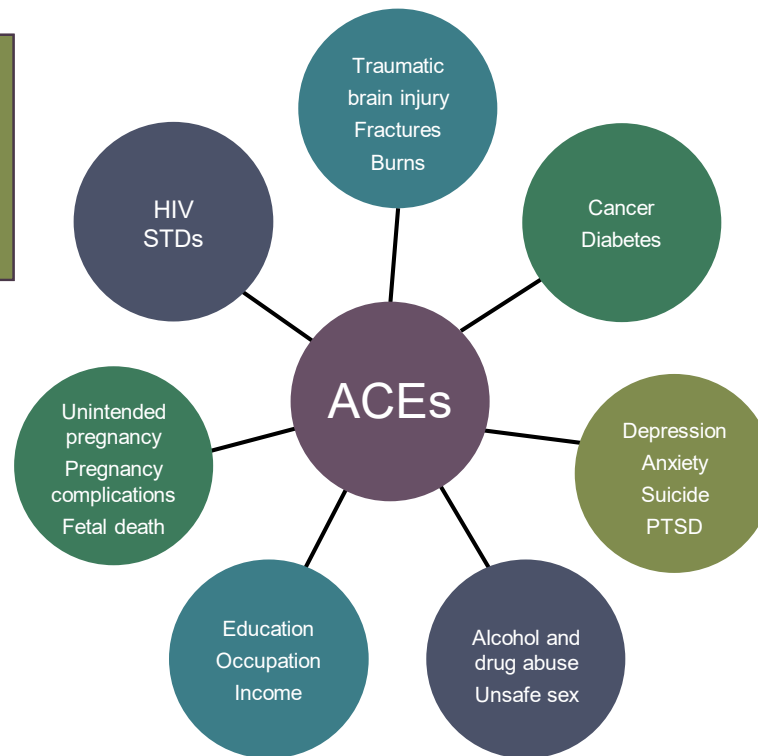


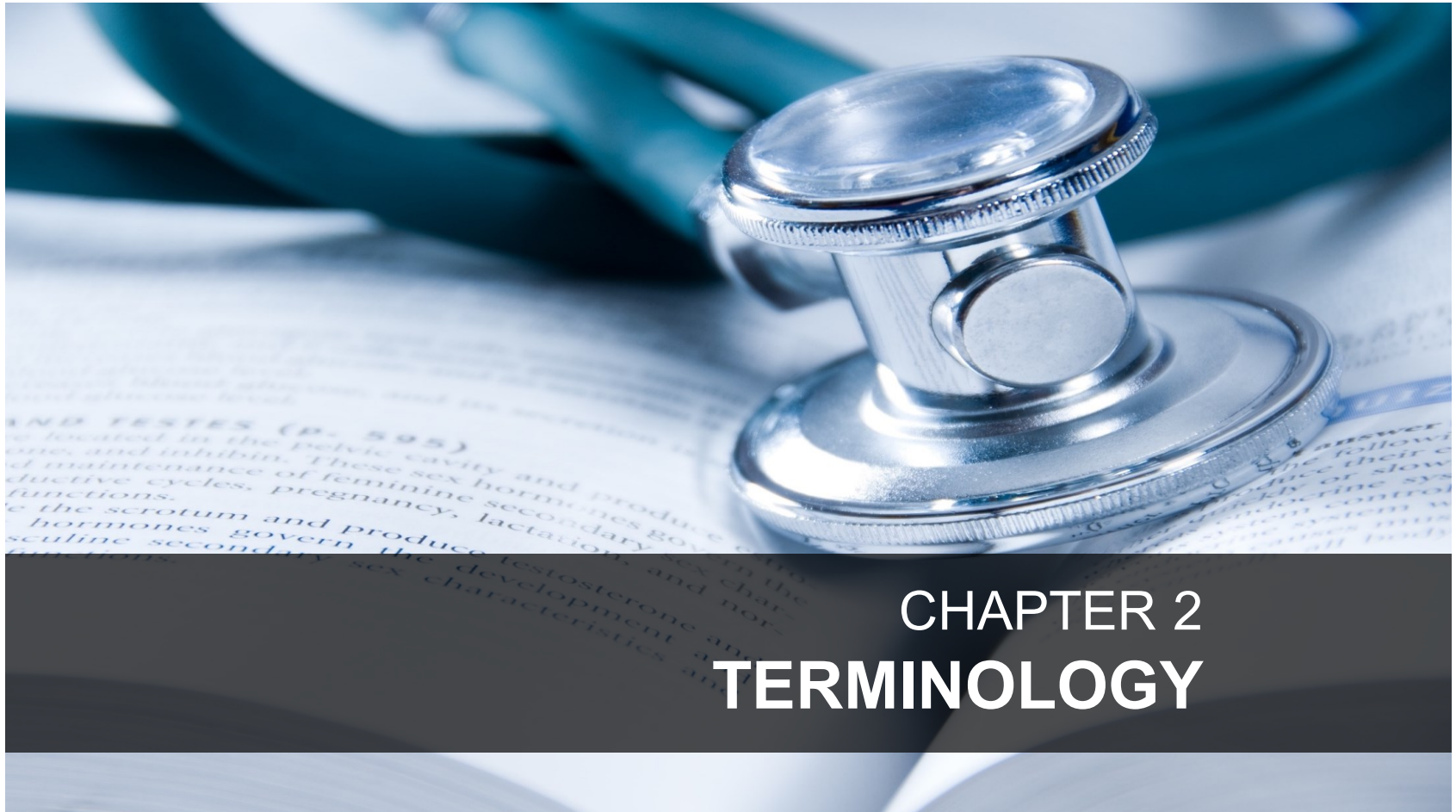
ADVERSE CHILDHOOD EXPERIENCES (ACEs)

A shift in focus...

from “*what’s wrong with this patient?*”

to “*what happened to this patient?*”





WORDS MATTER: LANGUAGE CHOICE CAN REDUCE STIGMA

“If you want to care for something, you call it a flower; if you want to kill something, you call it a weed.”
—DON COYHIS

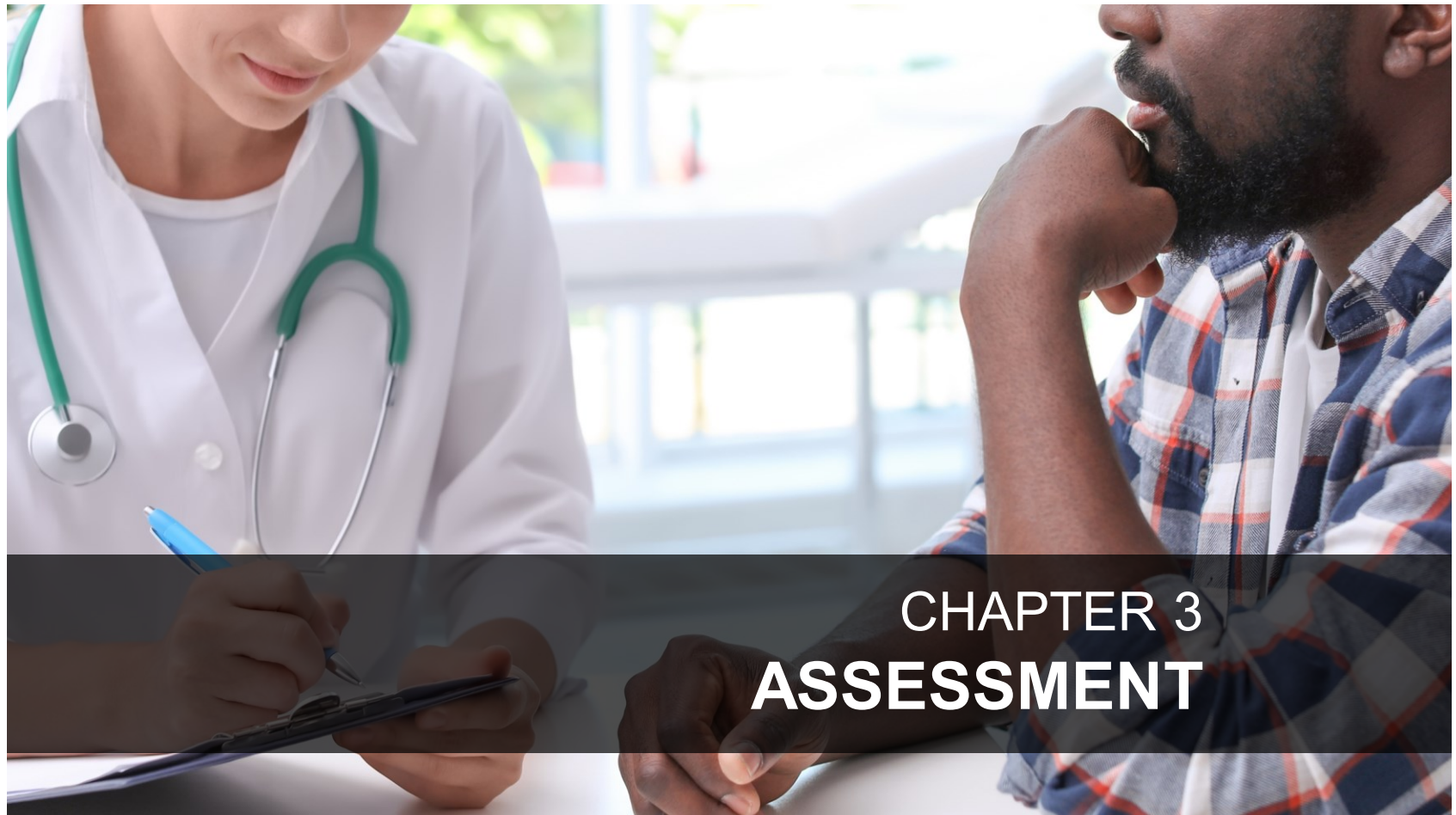
COMMONLY USED TERM	PREFERRED TERM
Addiction	Substance use disorder (SUD) or opioid use disorder (OUD) [from the <i>DSM-5-TR</i> [®]]
Drug-seeking, aberrant/problematic behavior	Using medication not as prescribed
Addict/user	Person with a substance use disorder (SUD) or an opioid use disorder (OUD)
Dirty urine/failing a drug test	Testing positive on a urine drug screen
Abuse or habit	Misuse or “use other than prescribed”

SOURCE: <https://nida.nih.gov/research-topics/addiction-science/words-matter-preferred-language-talking-about-addiction>

WORDS MATTER: DEFINITIONS

Misuse	Use of a medication in a way other than the way it is prescribed
Tolerance	Increased dosage needed to produce a specific effect
Dependence	State in which an organism only functions normally in the presence of a substance
Diversion	Transfer of a legally controlled substance, prescribed to one person, to another person for illicit (forbidden by law) use
Withdrawal	Occurrence of uncomfortable symptoms or physiological changes caused by an abrupt discontinuation or dosage decrease of a pharmacologic agent
MOUD	Medication for Opioid Use Disorder, an approach to treating Opioid Use Disorder that combines FDA-approved medication with counseling and behavioral therapies
MME	Morphine milligram equivalents; a standard opioid dose value based on morphine and its potency; allows for ease of comparison and risk evaluations
Chronic non-cancer pain (CNCP)	Any painful condition that persists for ≥ 3 months, or past the time of normal tissue healing, that is not associated with a cancer diagnosis

SOURCE: NIDA, <https://nida.nih.gov/research-topics/addiction-science/words-matter-preferred-language-talking-about-addiction>



PAIN ASSESSMENT

DESCRIPTION OF PAIN



Location



Intensity



Quality



Onset/
duration



Variations/
patterns/rhythms

WHAT RELIEVES THE PAIN?

WHAT CAUSES OR INCREASES THE PAIN?

EFFECTS OF PAIN ON PHYSICAL, EMOTIONAL AND PSYCHOSOCIAL FUNCTION

PATIENT'S CURRENT LEVEL OF PAIN AND FUNCTION

SOURCE: Hogans, B., Barreveld, A. (Eds.). *Pain Care Essentials*, New York, NY: Oxford University Press. 2020.

MEDICAL AND TREATMENT HISTORY

RELEVANT ILLNESSES



PAST AND CURRENT OPIOID USE

- Query your state's Prescription Drug Monitoring Program (**PDMP**) to confirm patient report
- Contact past providers and obtain prior medical records
- For opioids currently prescribed, note the opioid, dose, regimen, and duration
- Determine whether the patient is **opioid-tolerant**

NONPHARMACOLOGIC STRATEGIES AND EFFECTIVENESS

PHARMACOLOGIC STRATEGIES AND EFFECTIVENESS

BARRIERS TO PREVIOUS TREATMENT STRATEGIES

PRESCRIPTION DRUG MONITORING PROGRAMS (PDMPs)

PDMP DATABASES	BENEFITS
<ul style="list-style-type: none"> • Reports on opioid prescriptions filled by patient • Nearly all are available online 24/7 • 54 operational PDMPs in the U.S. • In some states, prescribers are required to access; know your state laws 	<ul style="list-style-type: none"> • Lower rates of prescription opioid-related hospitalization and ED visits • Reduction in “doctor shopping” • Reduction in prescribing high doses and over-prescribing • Identify drugs that increase overdose risk when taken together (such as benzodiazepines, gabapentinoids, opioids, and other sedatives)

Limitations: Often under-used, can be time consuming, may not have access to bordering state data, lack of intuitive format, privacy issues, no national PDMP connection

Multiple prescriptions from different providers is most predictive of opioid misuse.

OBTAIN A COMPLETE SOCIAL AND PSYCHOLOGICAL HISTORY

SOCIAL HISTORY

Employment, cultural background, social network, relationship history, legal history, and other behavioral patterns

PSYCHOLOGICAL HISTORY

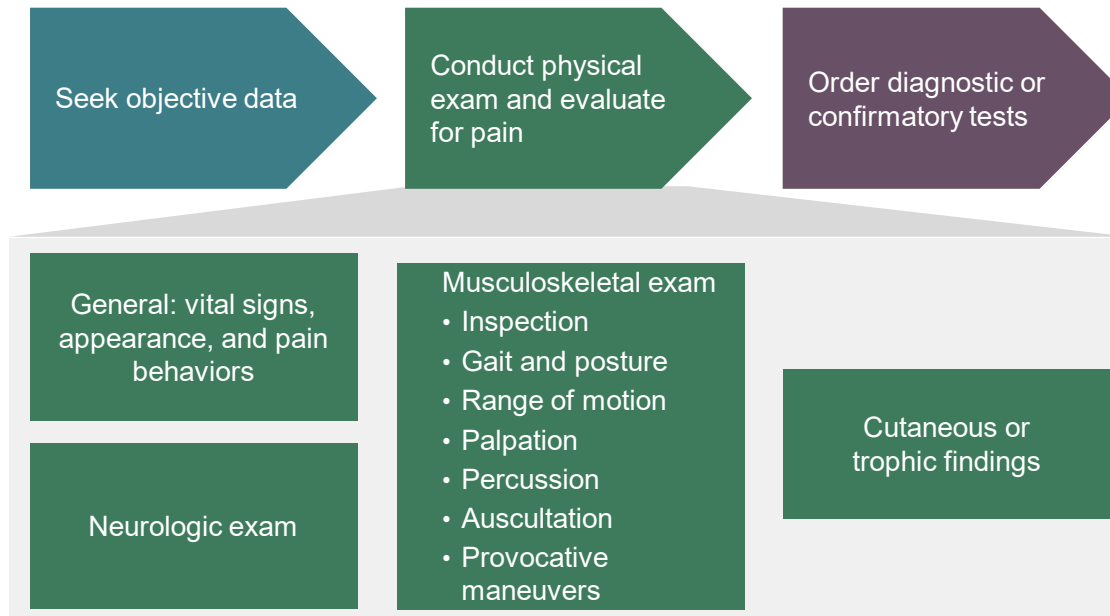
Screen for:

- Mental health diagnoses, depression, anxiety, PTSD, current treatments
- Alcohol, tobacco, and other drug use
- History of Adverse Childhood Experiences (ACES)
- Family history of substance use disorder and psychiatric disorders

Depression and anxiety can be predictors of chronic pain



PHYSICAL EXAM AND ASSESSMENT



SOURCE: Hogans, B., Barrevel, A. (Eds.). Pain Care Essentials, New York, NY: Oxford University Press. 2020.

PAIN ASSESSMENT TOOLBOX

<http://core-rems.org/opioid-education/tools/>



Pain Assessment Tools

BPI or 5 A's

Functional Assessment

SF-36, PPS, Geriatric Assessment

Pain intensity, Enjoyment of life, General activity

PEG

Adverse Childhood Experience Questionnaire

ACE

Assessment in Patients Unable to Self-Report

Hierarchy of Pain Assessment

PAINAD

The image shows a sample of the Brief Pain Inventory (Short Form) questionnaire. It includes fields for patient name, date, and study information. The main part of the form asks the patient to rate their pain intensity and to mark areas of pain on a diagram of the human body. The diagram shows the front and back views of a human torso and head. Below the diagram, there are three sections for rating pain intensity, each with a scale from 0 to 10 and a checkbox for 'You Can Imagine Pain'.

Brief Pain Inventory (BPI)

Psychological Measurement Tools (PHQ-9, GAD-7, etc.)

ASSESSMENT IS NOT A ONE-TIME OCCURRENCE

Assessment of a patient's response to pain treatment is a continual process:

- Routinely check the PDMP
- Check in with your patients
- Reassess to identify the underlying source of pain
- Investigate comorbid conditions that may arise
- Ask if patient is willing to engage with other modalities
- Modify plans as needed



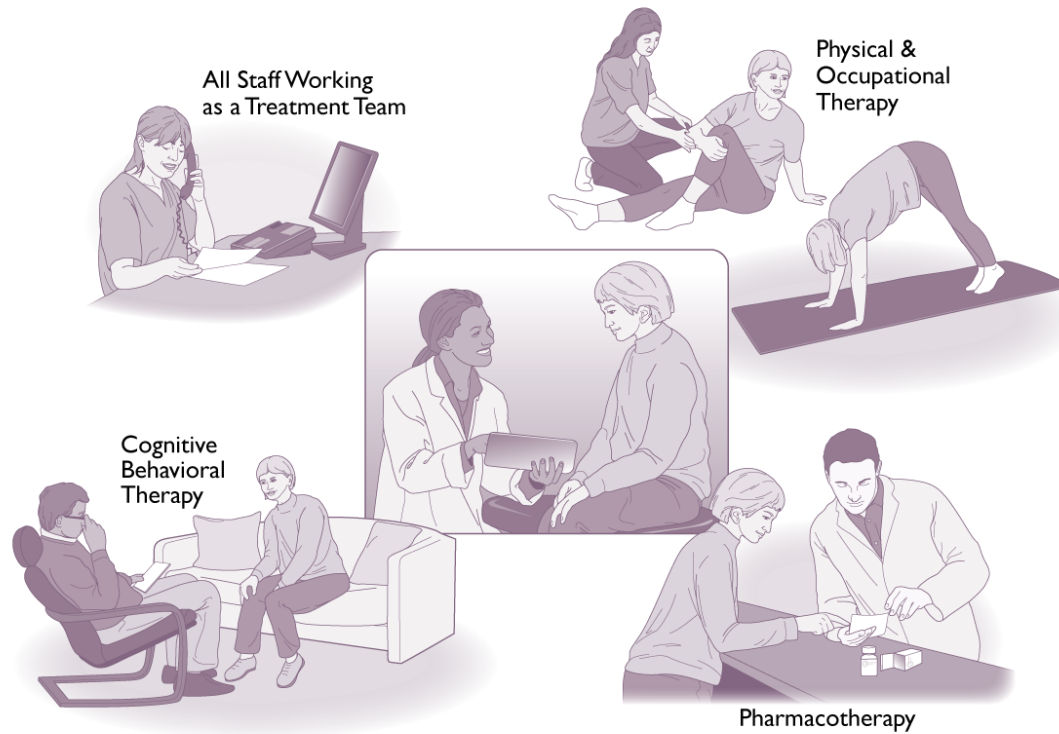


CHAPTER 4
CREATING THE PAIN TREATMENT PLAN

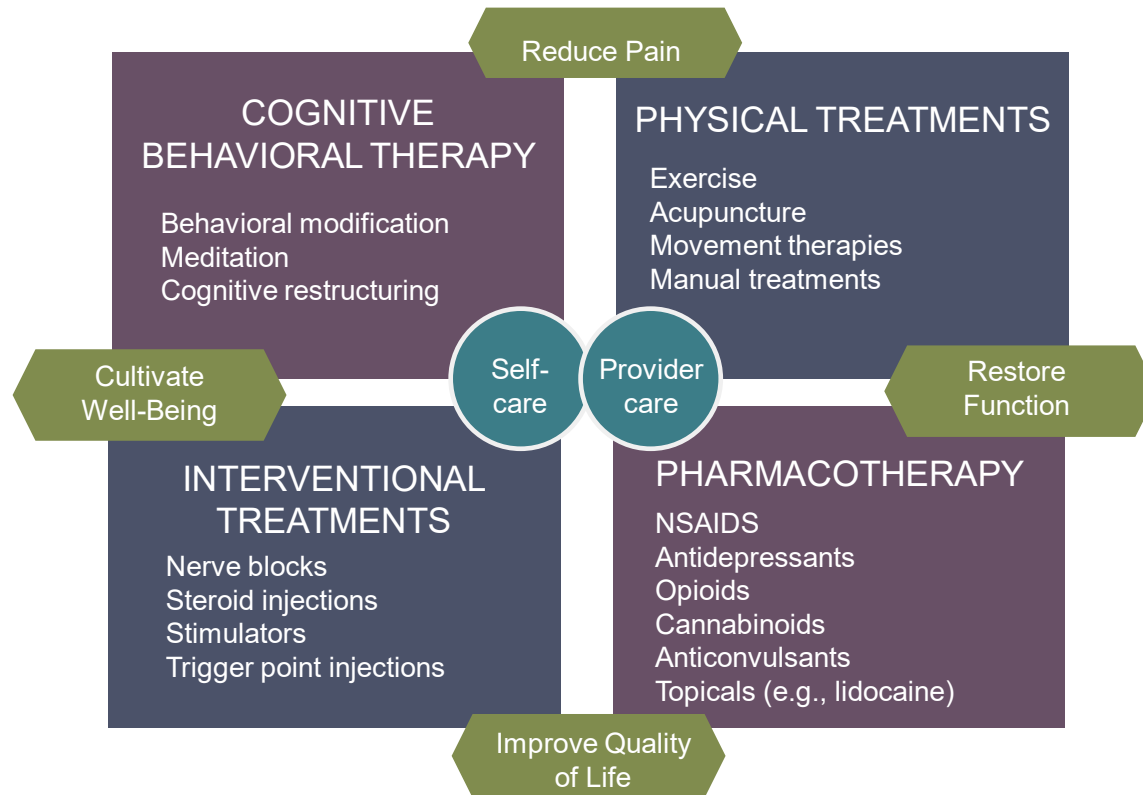


HOW IS PAIN MANAGED?

COMPONENTS OF A MULTIMODAL TREATMENT PLAN FOR PAIN



PAIN MANAGEMENT GOALS AND TREATMENT OPTIONS: A MULTIMODAL APPROACH



EVIDENCE-BASED NONPHARMACOLOGIC TREATMENTS

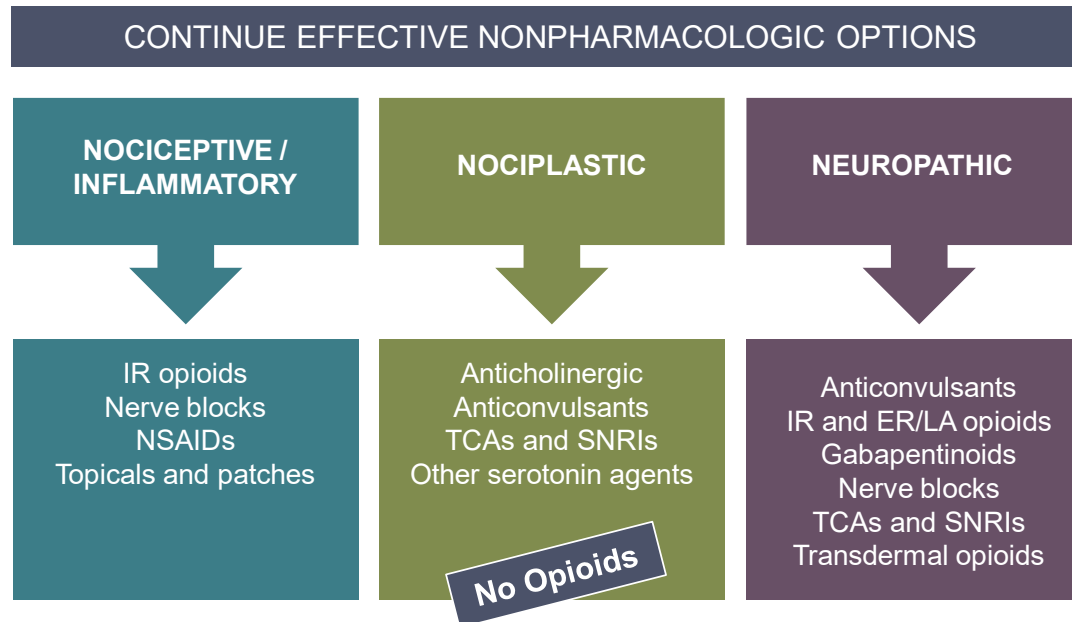
What is appropriate
for your patient?



- Tai Chi
- Yoga
- CBT and ACT
- Acupuncture
- PT/OT/aquatic
- Mindfulness meditation
- OMT
- Massage therapy
- Chiropractic
- Neuromodulation or surgical approaches (in some situations)

CBT = cognitive behavioral therapy; ACT = acceptance commitment therapy; OMT = osteopathic manipulative therapy

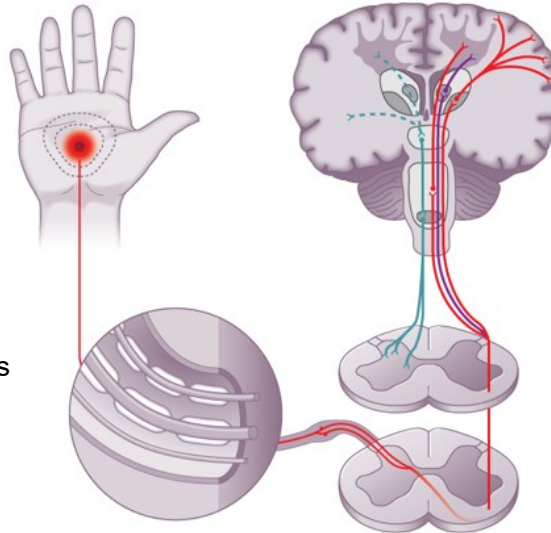
PHARMACOLOGIC TREATMENTS BY TYPE OF PAIN



POTENTIAL SITES OF ACTION FOR ANALGESIC AGENTS

Peripherally Mediated Pain:

- Acetaminophen
- NSAIDs
- Opioids
- Topical anesthetics

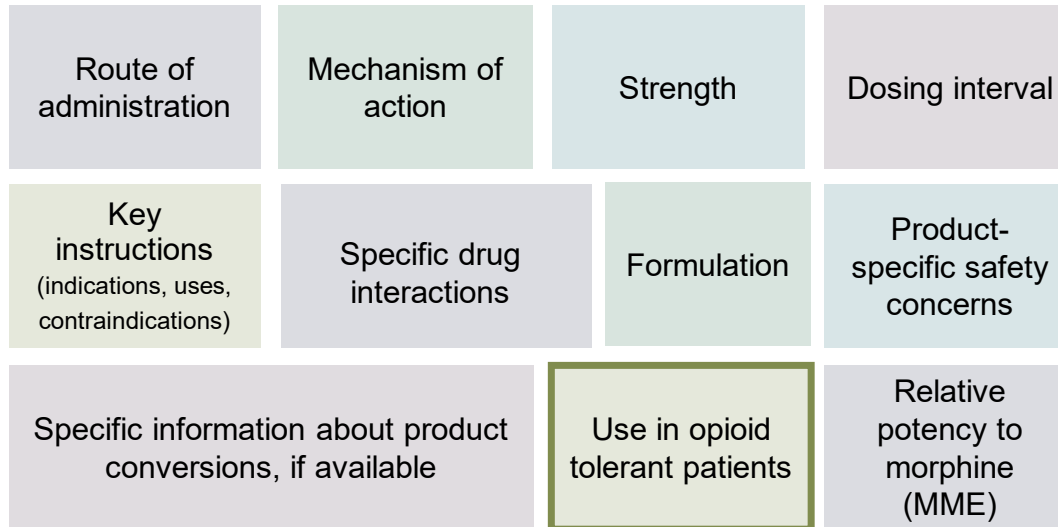


Centrally Mediated Pain:

- Alpha-2 agonists
- Anticonvulsants
- Ca⁺ channel antagonists
- NMDA RAs
- Opioids
- TCA/SNRI antidepressants

Most commonly, pain conditions are a combination of peripherally and centrally mediated processes

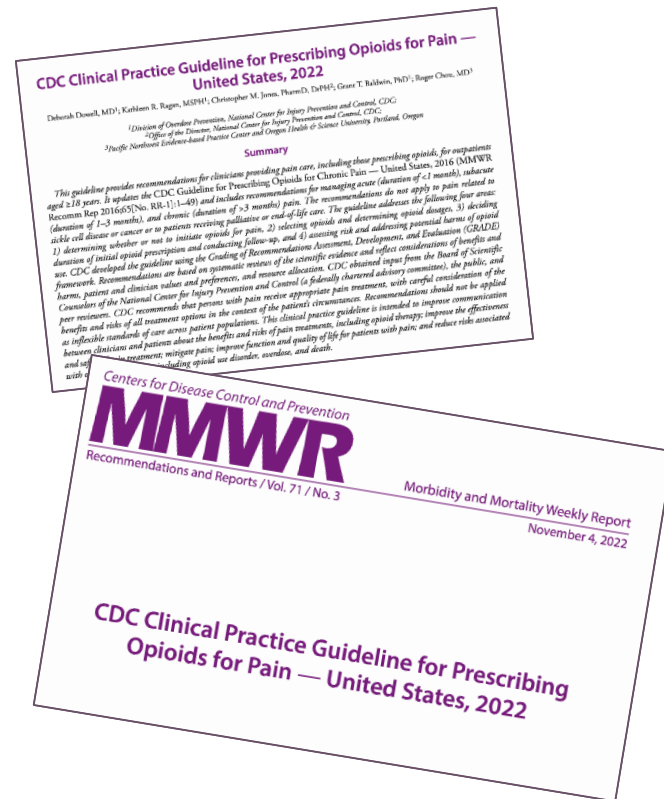
DRUG CHARACTERISTICS TO CONSIDER BEFORE PRESCRIBING



Opioid product information available at <https://opioidanalgesicrems.com/products.html>.

2022 CDC GUIDELINE

- Clinician recommendations for patients aged ≥ 18 years
- Summary of current research
- Flexible; encourages patient-centered decision making
- Emphasizes the importance of the individual & clinical judgement
- This is a clinical tool, not a law, regulation or policy



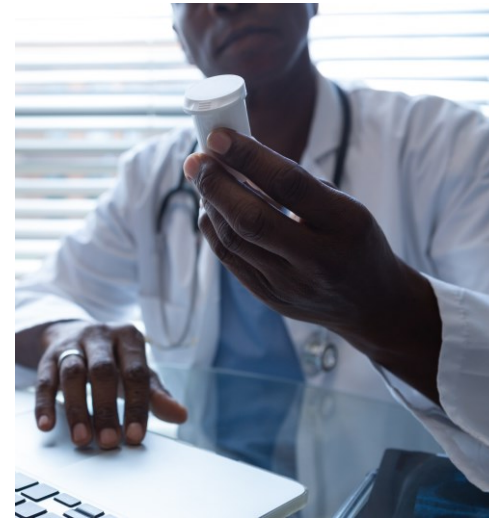
CONSIDER AN OPIOID ONLY WHEN:

Potential benefits are likely to outweigh risks

Patient has failed to adequately respond to non-opioid and nonpharmacological interventions

Patient has moderate to severe nociceptive or neuropathic pain

Begin as a therapeutic trial



SOURCES: Chou R, et al. J Pain. 2009;10:113-130. Department of Veterans Affairs, Department of Defense. VA/DoD Clinical Practice Guideline for Management of Opioid Therapy for Chronic Pain. 2017.

OPIOID MISUSE RISK ASSESSMENT TOOLS

<http://core-rems.org/opioid-education/tools/>

TOOLS FOR PATIENTS CONSIDERED FOR OPIOID THERAPY

ORT-ODU Opioid Risk Tool

SOAPP® Screener and Opioid Assessment for Patients with Pain

DIRE Diagnosis, Intractability, Risk, and Efficacy score

TOOLS FOR SUBSTANCE USE DISORDER

CAGE-AID Cut down, Annoyed, Guilty, Eye-Opener tool, Adapted to Include Drugs

TAPS Tobacco, Alcohol, Prescription Medication and Other Substances Tool

DAST Drug Abuse Screening Test

CTQ Childhood Trauma Questionnaire

ACEs Adverse Childhood Experiences



A CLOSER LOOK AT THE ORT-OD

Opioid Risk Tool – OUD (ORT-OD)

This tool should be administered to patients upon an initial visit prior to beginning or continuing opioid therapy for pain management. A score of 2 or lower indicates low risk for future opioid use disorder; a score of ≥ 3 indicates high risk for opioid use disorder.

Mark each box that applies	YES	NO
Family history of substance abuse		
Alcohol	1	0
Illegal drugs	1	0
Rx drugs	1	0
Personal history of substance abuse		
Alcohol	1	0
Illegal drugs	1	0
Rx drugs	1	0
Age between 16-45 years	1	0
Psychological disease		
ADD, OCD, bipolar, schizophrenia	1	0
Depression	1	0
Scoring totals		

SOURCE: Cheattle, M., et al. J Pain 2019; Jan 26.

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Substance use disorder history does not prohibit treatment with opioids but may require additional monitoring and expert consultation or referral.

Scoring:

- ≤ 2 : low risk
- ≥ 3 : high risk

OPIOID SIDE EFFECTS AND ADVERSE EVENTS

SIDE EFFECTS	ADVERSE EVENTS
Respiratory depression	Death
Opioid-induced constipation (OIC) (most common)	Addiction
Myoclonus (twitching or jerking)	Overdose
Sedation, cognitive impairment	Hospitalization
Sweating, miosis, urinary retention	Disability or permanent damage
Allergic reactions	Falls or fractures
Hypogonadism	
Tolerance, physical dependence, hyperalgesia	

Prescribers should report serious AEs and medication errors to the FDA:
<https://www.fda.gov/media/76299/download> or 1-800-FDA-1088

OPIOID-INDUCED RESPIRATORY DEPRESSION

MORE LIKELY TO OCCUR:

- In elderly, cachectic, or debilitated patients
- If given concomitantly with other drugs that depress respiration (such as benzodiazepines*)
- In patients who are opioid-naïve or have just had a dose increase
- In patients with conditions causing respiratory compromise

HOW TO REDUCE RISK:

- Ensure proper dosing and titration
- **Do not overestimate** dose when converting dosage from another opioid product
 - Can result in fatal overdose with first dose
- Avoid co-prescribing benzodiazepines*
- Instruct patients to swallow tablets/capsules whole
 - Dose from cut, crushed, dissolved, or chewed tablets/capsules may be fatal, particularly in opioid-naïve individuals

***Greatest risk of respiratory depression**

DRUG INTERACTIONS COMMON TO OPIOIDS

Other CNS Depressants

- Increased risk of respiratory depression, hypotension, profound sedation, or coma
- Reduce initial dose

Partial Agonists* or Mixed Agonist/Antagonists†

- Use caution with full opioid agonist
- May reduce analgesic effect and/or precipitate withdrawal

Skeletal Muscle Relaxants

- Concurrent use may enhance neuromuscular blocking action and increase respiratory depression

Anticholinergic Medication

- Concurrent use increases risk of urinary retention and severe constipation
- May lead to paralytic ileus

*Buprenorphine; †Pentazocine, nalbuphine, butorphanol

FOR SAFER USE: KNOW DRUG INTERACTIONS, PHARMACODYNAMICS, AND PHARMACOKINETICS

CNS depressants can potentiate sedation and respiratory depression (e.g., benzodiazepines, gabapentin)

Some ER/LA products rapidly release opioid (dose dump) when exposed to alcohol
Some drug levels may increase without dose dumping

Opioid use with MAOIs may increase respiratory depression

Certain opioids with MAOIs can cause serotonin syndrome (e.g., tramadol)

Opioid use can reduce efficacy of diuretics

Inducing release of antidiuretic hormone

Many opioids can prolong QTc interval, check the PI; methadone requires extra caution

Drugs that inhibit or induce CYP enzymes can increase or lower blood levels of some opioids

OPIOIDS AND CYP450 ENZYME INTERACTIONS

Metabolism of several commonly used opioids occurs through the cytochrome P450 system

Be aware of potential inhibitors (e.g., macrolides, azole antifungals) and inducers (e.g., carbamazepine)

Genetic and phenotypic variations in patient response to certain opioids

Refer to product-specific information in the drug package insert before prescribing

SOURCE: <https://dailymed.nlm.nih.gov/dailymed/index.cfm>

TRANSDERMAL/TRANSMUCOSAL DOSAGE FORMS



Do not cut, damage, chew, or swallow

Prepare skin: clip (not shave) hair and wash area with water

Rotate location of application

Do not apply buccal film products if film is cut, damaged, or changed in any way—use the entire film

Note that metal foil backings are not safe for use in MRIs

Monitor patients with fever for signs or symptoms of increased opioid exposure

Note that exertion or exposure to external heat can lead to fatal overdose



OLDER ADULTS

RISK FOR RESPIRATORY DEPRESSION

- Age-related changes in distribution, metabolism, excretion; absorption less affected

ACTIONS

- Monitor
 - Initiation and titration
 - Concomitant medications (polypharmacy)
 - Falls risk, cognitive change, psychosocial status
- Reduce starting dose to 1/3 to 1/2 the usual dosage in debilitated, non-opioid-tolerant patients
- Start low, go slow, but GO
- Routinely initiate a bowel regimen
- Patient and caregiver reliability/risk of diversion



SOURCES: American Geriatrics Society Panel on the Pharmacological Management of Persistent Pain in Older Persons. J Am Geriatr Soc. 2009;57:1331-46; Chou R, et al. J Pain. 2009;10:113-30.

WOMEN OF CHILDBEARING POTENTIAL

Neonatal opioid withdrawal syndrome is a potential risk of opioid therapy

GIVEN THIS POTENTIAL RISK, CLINICIANS SHOULD:

- Discuss family planning, contraceptives, breastfeeding plans with patients
 - Counsel women of childbearing potential about risks and benefits of opioid therapy during pregnancy and after delivery
 - Encourage minimal/no opioid use during pregnancy, unless potential benefits outweigh risks to fetus
 - Refer to a qualified provider who will ensure appropriate treatment for the baby
- Perform universal screening to avoid neonatal opioid withdrawal syndrome (NOWS)
 - **For women using opioids on a daily basis, ACOG recommends buprenorphine or methadone**



ACOG = American College of Obstetricians and Gynecologists
SOURCES: Chou R, et al. J Pain. 2009;10:113-30; ACOG Committee on Obstetric Practice, August 2017

CHILDREN AND ADOLESCENTS

HANDLE WITH CARE: JUDICIOUS AND LOW-DOSE USE OF IR FOR BRIEF THERAPY

THE SAFETY AND EFFECTIVENESS OF MOST OPIOIDS ARE UNESTABLISHED

- Pediatric analgesic trials pose challenges
- Transdermal fentanyl approved in children ≥ 2 years
- Oxycodone ER dosing changes for children ≥ 11 years

ER/LA OPIOID INDICATIONS ARE PRIMARILY LIFE-LIMITING CONDITIONS

WHEN PRESCRIBING ER/LA OPIOIDS TO CHILDREN:

- Consult pediatric palliative care team or pediatric pain specialist or refer to a specialized multidisciplinary pain clinic

SOURCES: Berde CB, et al. *Pediatrics*. 2012;129:354-364; Gregoire MC, et al. *Pain Res Manag* 2013;18:47-50; Mc Donnell C. *Pain Res Manag*. 2011;16:93-98; Slater ME, et al. *Pain Med*. 2010;11:207-14.



OTHER POPULATIONS NEEDING SPECIAL TREATMENT CONSIDERATIONS

Persons with...

- Sleep disorders or sleep-disordered breathing (sleep apnea)
- Dementia/nonverbal patients
- Obesity
- Renal/hepatic impairment
- Psychiatric disorders
- Life-limiting illness
- Substance use disorder

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INFORMED CONSENT

When initiating a pain treatment plan, confirm patient understanding of informed consent to establish:





OPTIMIZING PATIENT CARE THROUGH TELEHEALTH

New CO*RE CE/CME Module

- Series of four short videos
- Help HCPs conduct successful telehealth patient visits
- Available online <https://learningipma.org>

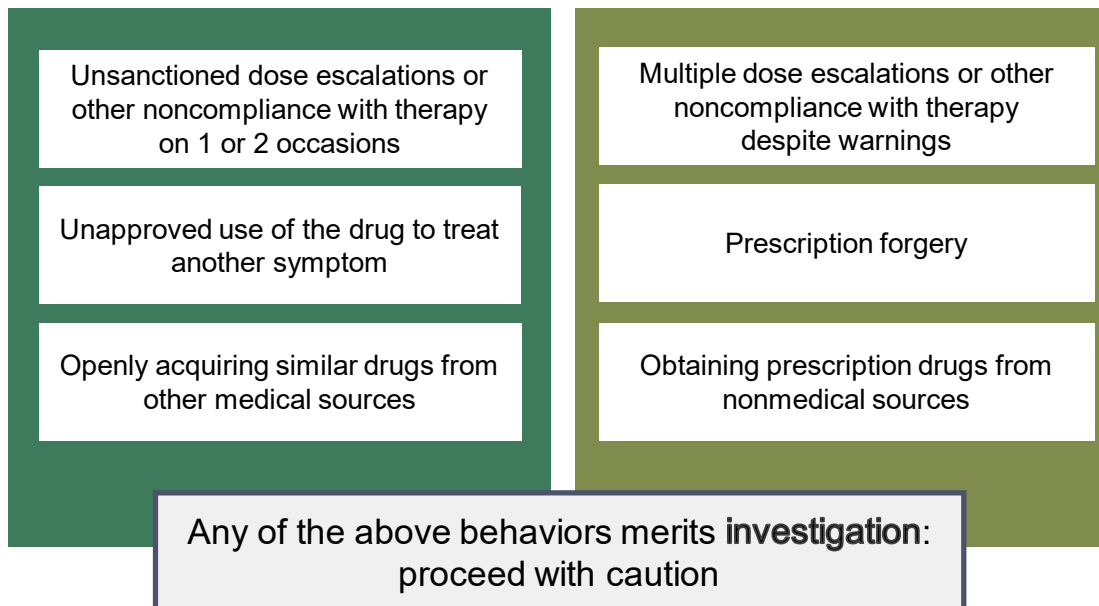
PATIENT PROVIDER AGREEMENT (PPA)

Reinforce Expectations For Appropriate And Safe Opioid Use

- Clarify treatment plans and goals
 - One prescriber
 - Consider one pharmacy
 - Safeguards
 - Do not store in medicine cabinet
 - Keep locked (medication safe)
 - Do not share or sell
 - Instructions for disposal when no longer needed
 - Prescriber notification for any event resulting in a pain medication prescription
- Follow-up plan
 - Monitoring
 - Random urine drug test (UDT) and pill counts
 - Refill procedure
 - Identify behaviors indicating need for discontinuation
 - Exit strategy
 - Signed by both

PATIENT PROVIDER AGREEMENT NONADHERENCE

Behavior outside the boundaries of agreed-on treatment plan





CHAPTER 5
MANAGING PATIENTS ON
OPIOID ANALGESICS

INITIATING OPIOIDS

- Begin a therapeutic trial with an immediate release (IR) opioid
- Prescribe the lowest effective dosage
- Use caution at any dosage, but particularly when:
 - Increasing dosage to ≥ 50 morphine milligram equivalents (MME)/day
 - Carefully justify a decision to titrate dosage to ≥ 90 MME/day
- Always include dosing instructions, including daily maximum
- Be aware of interindividual variability of response
- Have PPA, baseline UDT, and informed consent in place
- Co-prescribe naloxone and bowel regimen
- Re-evaluate risks/benefits within 1–4 weeks (could be as soon as 3–5 days) of initiation or dose escalation
- Re-evaluate risks/benefits every 1–3 months; if benefits do not outweigh harms, optimize other therapies and work to taper and discontinue

There are differences in benefits, risks, and expected outcomes for patients with chronic pain and cancer pain, as well as for hospice and palliative care patients.

ONGOING AND LONG-TERM MANAGEMENT OF PATIENTS ON OPIOID ANALGESICS

PERIODIC REVIEW OF PAIN

- Is the patient making progress toward functional goals?
- Reset goals if required or indicated; develop reasonable expectations
- Monitor for breakthrough pain
- Review adverse events/side effects at each visit
 - Evaluate bowel function
 - Screen for endocrine function as needed
 - Report adverse events to the FDA website
 - Implement opioid rotation, as indicated

Prescribers should report serious AEs and medication errors to the FDA:
<https://www.fda.gov/media/76299/download> or 1-800-FDA-1088

ONGOING AND LONG-TERM MANAGEMENT OF PATIENTS ON OPIOID ANALGESICS

MONITORING FOR SAFETY

- Check Prescription Drug Monitoring Program (PDMP)
- Use urine drug testing (UDT)
- Reassess risk of substance use disorder (SUD) and/or OUD
- Monitor adherence to the treatment plan
 - Medication reconciliation
 - Evaluate for nonadherence

DISCONTINUING AND TAPERING

- When is opioid therapy no longer necessary?

MONITORING PAIN AND SUBSTANCE USE DISORDER

PAIN – 5 A's

- **A**nalgesia
- **A**ctivity/Function
- **A** aberrant/problematic behavior, not present
- **A**dverse events
- **A**ffect

SUD – 5 C's

- **C**ontrol, loss of
- **C**ompulsive use
- **C**raving drug
- **C**ontinued use
- **C**hronic problem

WHEN TO MOVE FROM IR TO ER/LA OPIOIDS

PRIMARY REASONS

- Maintain stable blood levels (steady state plasma)
- Longer duration of action
- Multiple IR doses needed to achieve effective analgesia
- Poor analgesic efficacy despite dose titration
- Less sleep disruption

OTHER POTENTIAL REASONS

- Patient desire or need to try a new formulation
- Cost or insurance issues
- Adherence issues
- Change in clinical status requiring an opioid with different pharmacokinetics
- Problematic drug-drug interactions



CONSIDERATIONS FOR CHANGE FROM IR TO ER/LA OPIOIDS

DRUG AND DOSE SELECTION IS CRITICAL

Some ER/LA opioids or dosage forms are only recommended for opioid tolerant patients

- ANY strength of transdermal fentanyl or hydromorphone ER
- Certain strengths/ doses of other ER/LA products (check drug prescribing information)

MONITOR PATIENTS CLOSELY FOR RESPIRATORY DEPRESSION

- Especially within 24–72 hours of initiating therapy and increasing dosage

INDIVIDUALIZE DOSAGE BY TITRATION BASED ON EFFICACY, TOLERABILITY, AND PRESENCE OF ADVERSE EVENTS

- Check ER/LA opioid product PI for minimum titration intervals
- Supplement with IR analgesics (opioid and non-opioid) if pain is not controlled during titration

SOURCES: Chou R, et al. J Pain. 2009;10:113-130; FDA. Education Blueprint Healthcare Providers Involved in the Treatment and Monitoring of Patients with Pain 09/2018, https://www.accessdata.fda.gov/drugsatfda_docs/rems/Opioid_analgesic_2018_09_18_FDA_Blueprint.pdf

EMERGENCE OF OPIOID-INDUCED HYPERALGESIA

- An increased sensitivity to pain
- Usually occurs at high MME dosages and over long periods of time
- A physiological phenomenon that can happen to anyone
- Consider this explanation if:
 - Pain increases despite dose increases
 - Pain appears in new locations
 - Patient becomes more sensitive to painful stimuli
 - Patient is not improving in the absence of underlying cause or disease progression

SOURCE: Yi P, Prybylkowski P. Opioid induced hyperalgesia. Pain Medicine 2015; 16: S32-S36



OPIOID TOLERANCE

If opioid tolerant, still use caution at higher doses

Patients considered opioid tolerant are taking at least

- 60 mg oral morphine/day
- 25 mcg transdermal fentanyl/hour
- 30 mg oral oxycodone/day
- 8 mg oral hydromorphone/day
- 25 mg oral oxymorphone/day
- An equianalgesic dose of another opioid

IMPORTANT

FOR 1 WEEK
OR LONGER



Also use caution when rotating a patient on an IR opioid to a different ER/LA opioid

Products restricted to opioid tolerant individuals include transdermal fentanyl (Duragesic) and hydromorphone (Exalgo).

SOURCE: The Opioid Analgesics Risk Evaluation & Mitigation Strategy product search, <https://opioidanalgesicrems.com/products.html>

OPIOID TOLERANCE VERSUS PHYSICAL DEPENDENCE

TOLERANCE

- Occurs when increased dose is needed to maintain the functional status no longer achieved by current dose
- Remember CNS and respiratory depression can develop with dose increase



PHYSICAL DEPENDENCE

- Occurs when an individual only functions normally in the presence of the substance
- Abrupt discontinuation or dosage decrease causes uncomfortable symptoms of withdrawal

Both **tolerance** and **physical dependence** are physiological adaptations to chronic opioid exposure and **DO NOT** equal addiction or opioid use disorder

OPIOID ROTATION

DEFINITION

A change from an existing opioid regimen to another opioid with the goal of improving therapeutic outcomes or to avoid AEs attributed to the existing drug



RATIONALE

Used when differences in pharmacologic or other effects make it likely that a switch will improve outcomes

- Effectiveness and AEs of different mu-opioids vary among patients
- Patient tolerant to first opioid might have improved analgesia from second opioid at a dose lower than calculated from an equianalgesic dosing table (EDT)

SOURCES: Fine PG, et al. J Pain Symptom Manage. 2009;38:418-425; Knotkova H, et al. J Pain Symptom Manage. 2009;38:426-439; Pasternak GW. Neuropharmacol. 2004;47(suppl 1):312-323.

EQUIANALGESIC DOSING TABLES (EDTs)

Many different versions:

Published

Online calculators

Smartphone apps



Vary in terms of:



Equianalgesic values

Whether ranges are used

Which opioids are included: May or may not include transdermal opioids, rapid-onset fentanyl, ER/LA opioids, or opioid agonist-antagonists

START WITH AN EDT FOR ADULTS



DRUG	EQUIANALGESIC DOSE		USUAL STARTING DOSE	
	SC/IV	PO	PARENTERAL	PO
Morphine	10 mg	30 mg	2.5–5 mg SC/IV q3–4hr (1.25–2.5 mg)	5–15 mg q3–4hr (IR or oral solution) (2.5–7.5 mg)
Oxycodone	NA	20 mg	NA	5–10 mg q3–4hr (2.5 mg)
Hydrocodone	NA	30 mg	NA	5 mg q3–4hr (2.5 mg)
Hydromorphone	1.5 mg	7.5 mg	0.2–0.6 mg SC/IV q2–3hr (0.2 mg)	1–2 mg q3–4hr (0.5–1 mg)

MU-OPIOID RECEPTORS AND INCOMPLETE CROSS TOLERANCE

MU-OPIOIDS BIND TO MU RECEPTORS

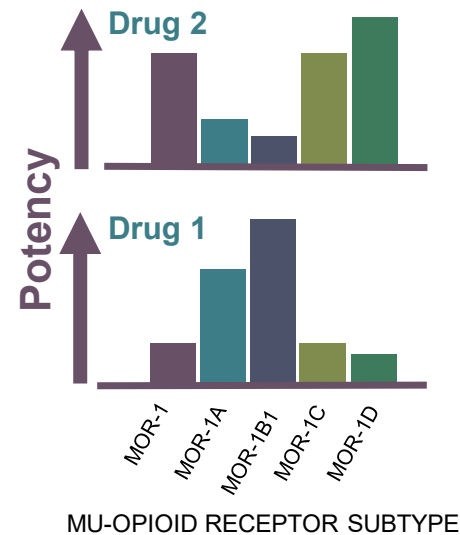
MANY MU RECEPTOR SUBTYPES

Mu-opioids produce **subtly different** pharmacologic responses based on distinct activation profiles of mu receptor subtypes

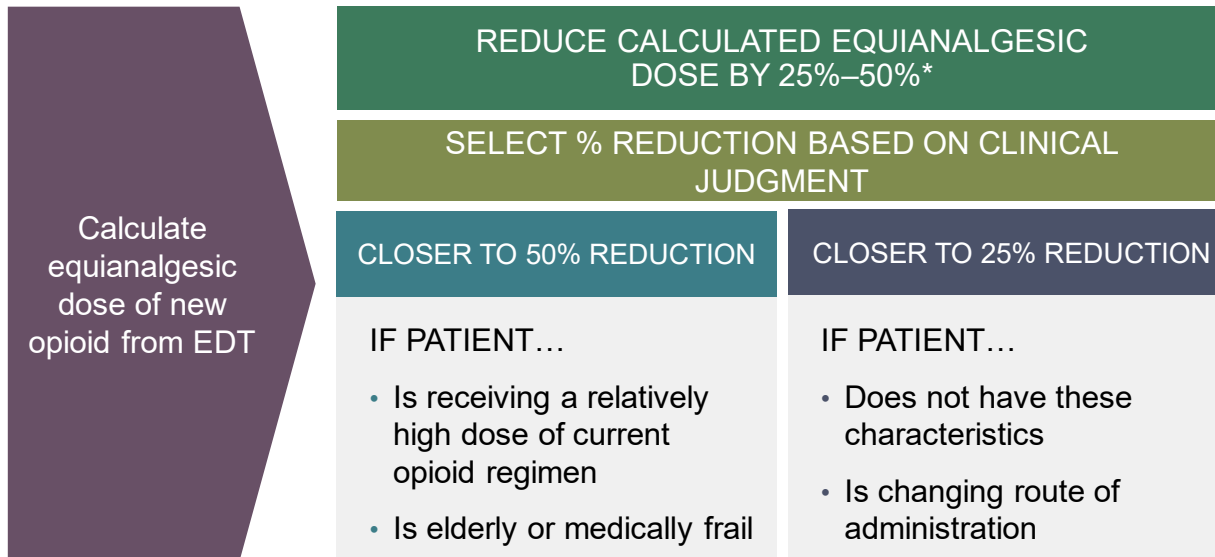
MAY HELP EXPLAIN:

Interpatient variability in response to mu-opioids

Incomplete cross tolerance among mu-opioids



GUIDELINES FOR OPIOID ROTATION



*75%–90% reduction for methadone

GUIDELINES FOR OPIOID ROTATION *(continued)*



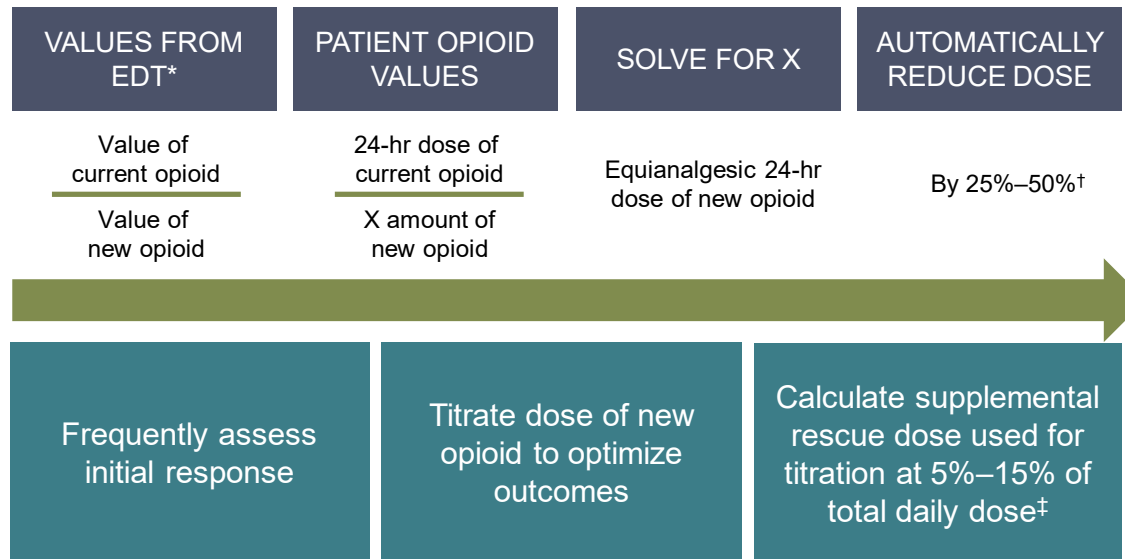
IF SWITCHING TO METHADONE:

- Standard equianalgesic dosing tables are less helpful in opioid rotation to methadone
- For opioid tolerant patients, methadone doses should **not** exceed 30–40 mg/day upon rotation
 - Consider inpatient monitoring, including serial EKG monitoring
- For opioid-naïve patients, do **not** give methadone as an initial drug

IF SWITCHING TO TRANSDERMAL:

- **Fentanyl:** calculate dose conversion based on equianalgesic dose ratios included in the drug package insert

GUIDELINES FOR OPIOID ROTATION: SUMMARY



* If switching to transdermal fentanyl, use equianalgesic dose ratios provided in PI.

† If switching to methadone, reduce dose by 75%–90%.

‡ If oral transmucosal fentanyl used as rescue, begin at lowest dose irrespective of baseline opioid.

BREAKTHROUGH PAIN (BTP)

PATIENTS ON STABLE ATC OPIOIDS MAY EXPERIENCE BTP

- Due to disease progression or a new or unrelated pain
 - Target cause or precipitating factors
- Dose for BTP: Using an **IR, 5%–15%** of total daily opioid dose, administered at an appropriate interval
- **Never use ER/LA for BTP**

CONSIDER ADDING

- PRN IR opioid trial based on analysis of benefit versus risk
 - There is a risk for problematic drug-related behaviors
 - High-risk: Add only in conjunction with frequent monitoring and follow-up
 - Low-risk: Add with routine follow-up and monitoring
- Consider non-opioid drug therapies and nonpharmacologic treatments

ABUSE-DETERRENT FORMULATION (ADF) OPIOIDS

Drug formulations designed to discourage misuse

- An ER/LA opioid with properties to meaningfully deter misuse (less likely to be crushed, injected, or snorted)
- Consider as one part of an overall strategy
- Mixed evidence on the impact of ADF on misuse
- Overdose is still possible if taken orally in excessive amounts
- These products are expensive with no generic equivalents



URINE DRUG TESTING (UDT)



- Urine testing is done **FOR** the patient, not **TO** the patient
- Helps to identify drug misuse/addiction
- Assists in assessing and documenting adherence

CLINICAL CONSIDERATIONS

- Recommend UDT before first prescription (baseline), then intermittently, depending on clinical judgment and state regulations
- Document time and date of last dose taken
- Be aware of possible false positives or negatives
- Clarify unexpected results with the lab before confronting patient to rule out poor specimen or error

SCREENING VERSUS CONFIRMATORY UDTs



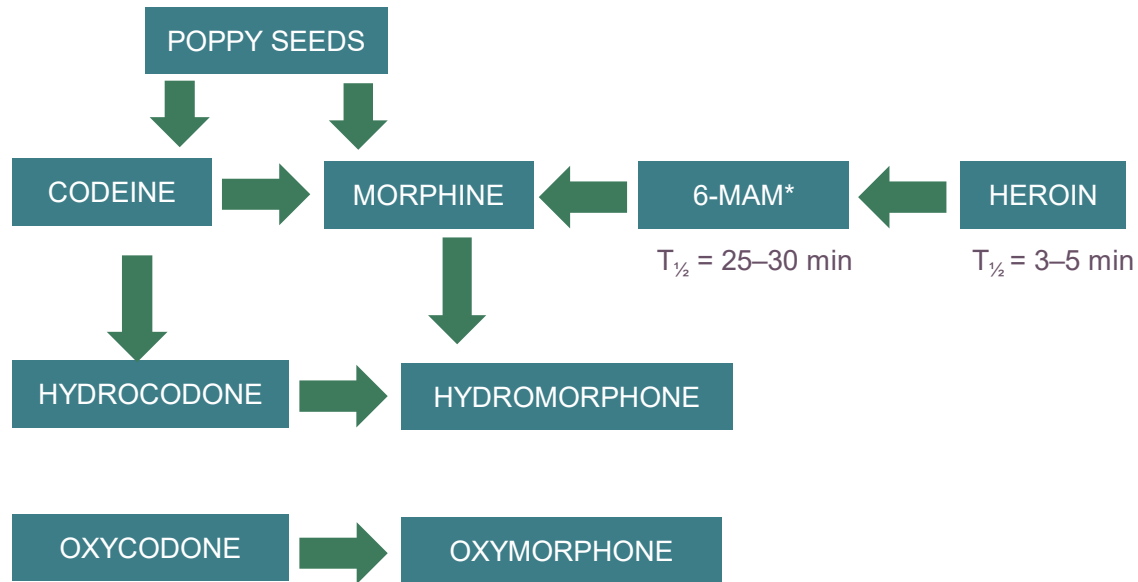
	SCREENING (Office-based)	CONFIRMATORY (Send to lab)
Analysis technique	Immunoassay	GC-MS or HPLC
Sensitivity (power to detect a class of drugs)	Low or none when testing for semi-synthetic or synthetic opioids	High
Specificity (power to detect an individual drug)	Varies (can result in false positives or false negatives)	High
Turnaround	Rapid	Slow
Cost/Other	Lower cost; intended for a drug-free population; may not be useful in pain medicine	Higher cost; legally defensible results

WINDOWS OF SPECIFIC DRUG DETECTION

Drug	How soon after taking drug will there be a positive drug test?	How long after taking drug will there continue to be a positive drug test?
Cannabis/ Tetrahydrocannabinol (THC)	1–3 hours	1–7 days (can be up to 1 month if long-term use)
Crack (cocaine)	2–6 hours	2–3 days
Heroin (opiates)	2–6 hours	1–3 days
Speed/uppers (amphetamine, methamphetamine)	4–6 hours	2–3 days
Angel dust/PCP	4–6 hours	7–14 days
Ecstasy	2–7 hours	2–4 days
Benzodiazepine	2–7 hours	1–4 days
Barbiturates	2–4 hours	1–3 weeks
Methadone	3–8 hours	1–3 days (up to 2 weeks)
Tricyclic antidepressants	8–12 hours	2–7 days
Oxycodone	1–3 hours	1–2 days

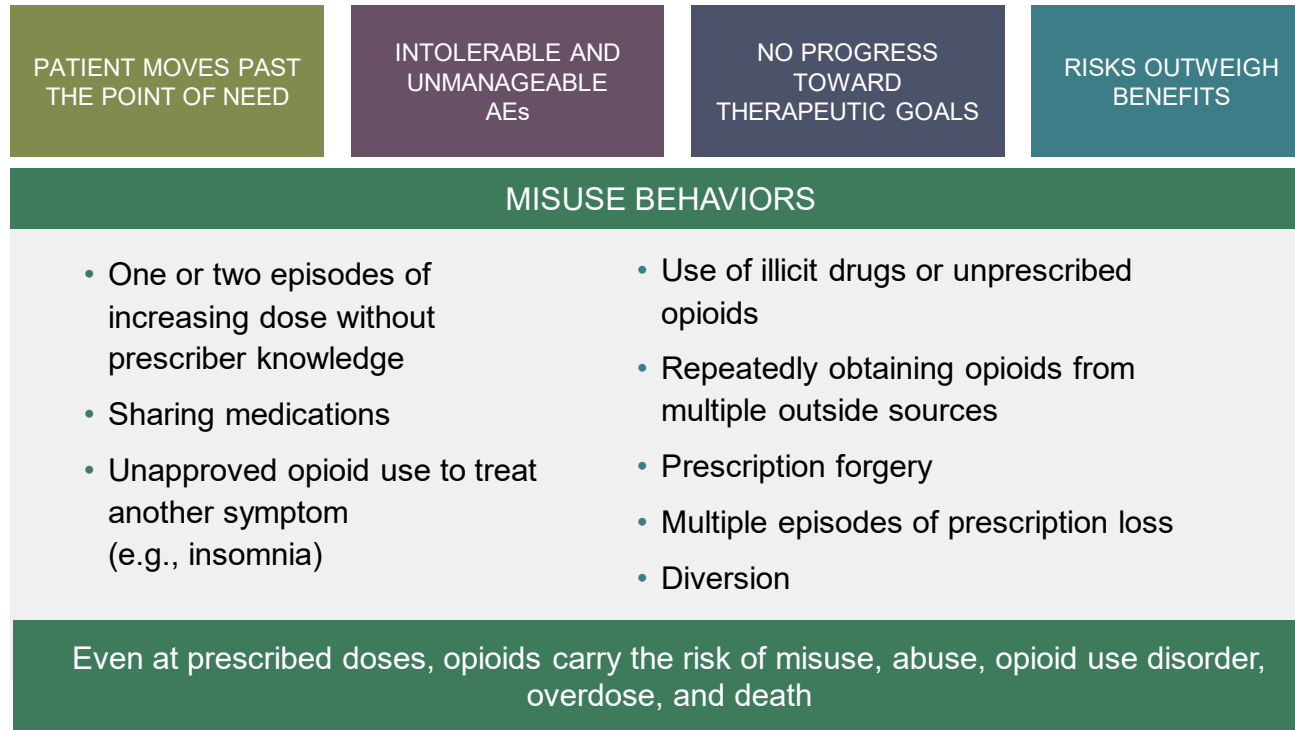
SOURCE: <http://www.fda.gov/MedicalDevices/ProductsandMedicalProcedures/InVitroDiagnostics/DrugsofAbuseTests/ucm125722.htm>

EXAMPLES OF OPIOID METABOLISM

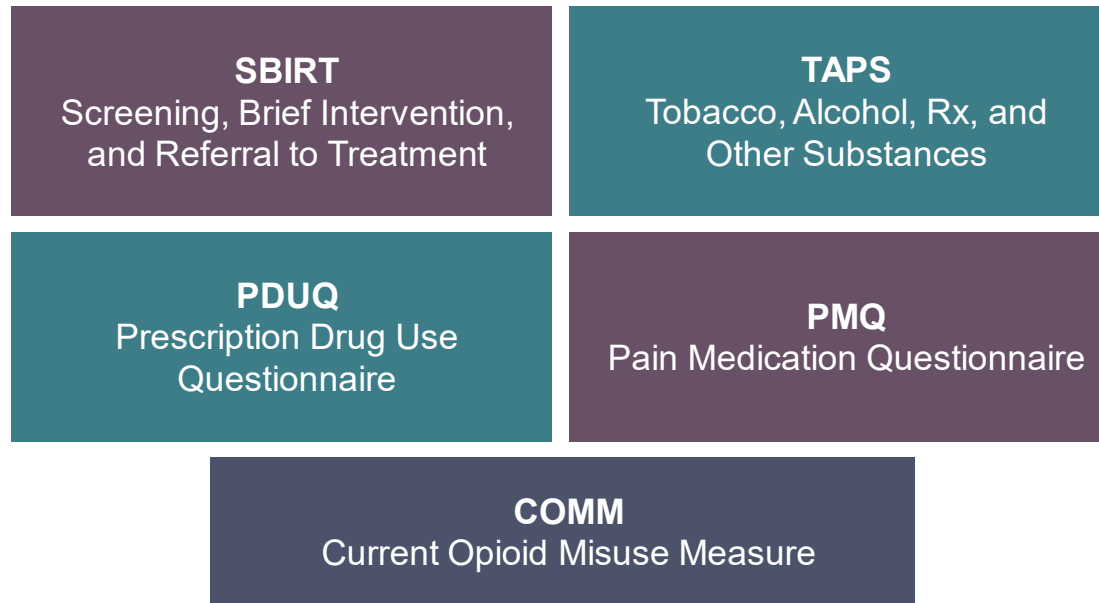


*6-MAM = 6-Monoacetylmorphine

CONSIDERATIONS FOR RE-EVALUATING OPIOID USE



TOOLS TO REASSESS OUD/SUD RISK

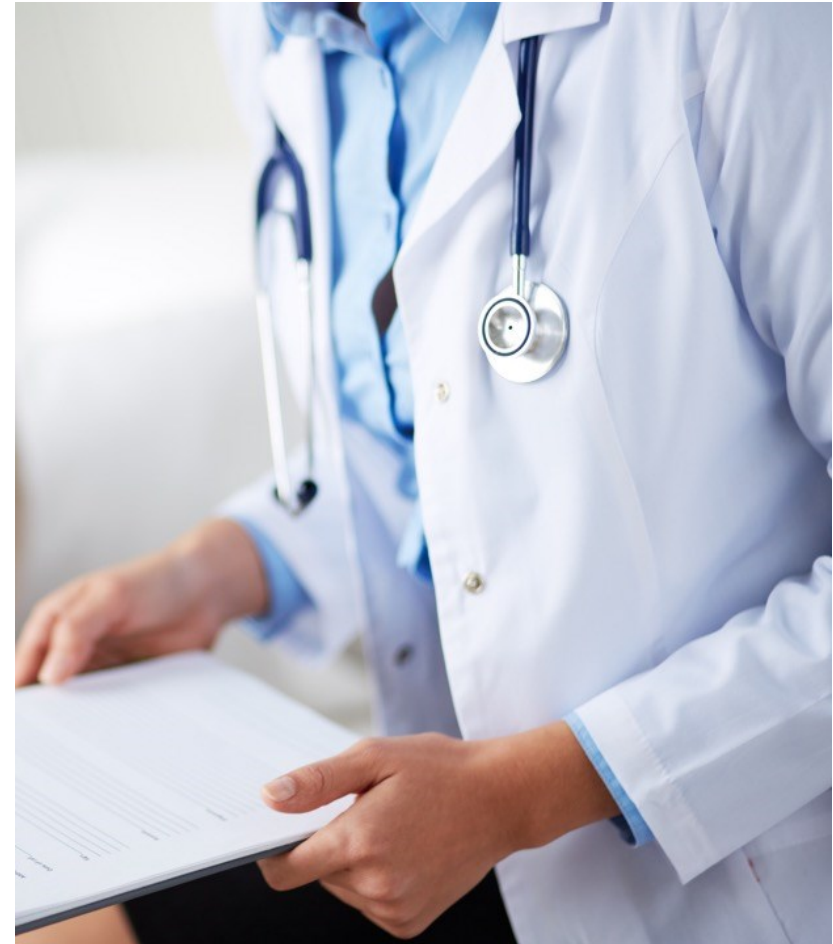


APPROACHES TO SUPPORT THE DISCONTINUATION DECISION

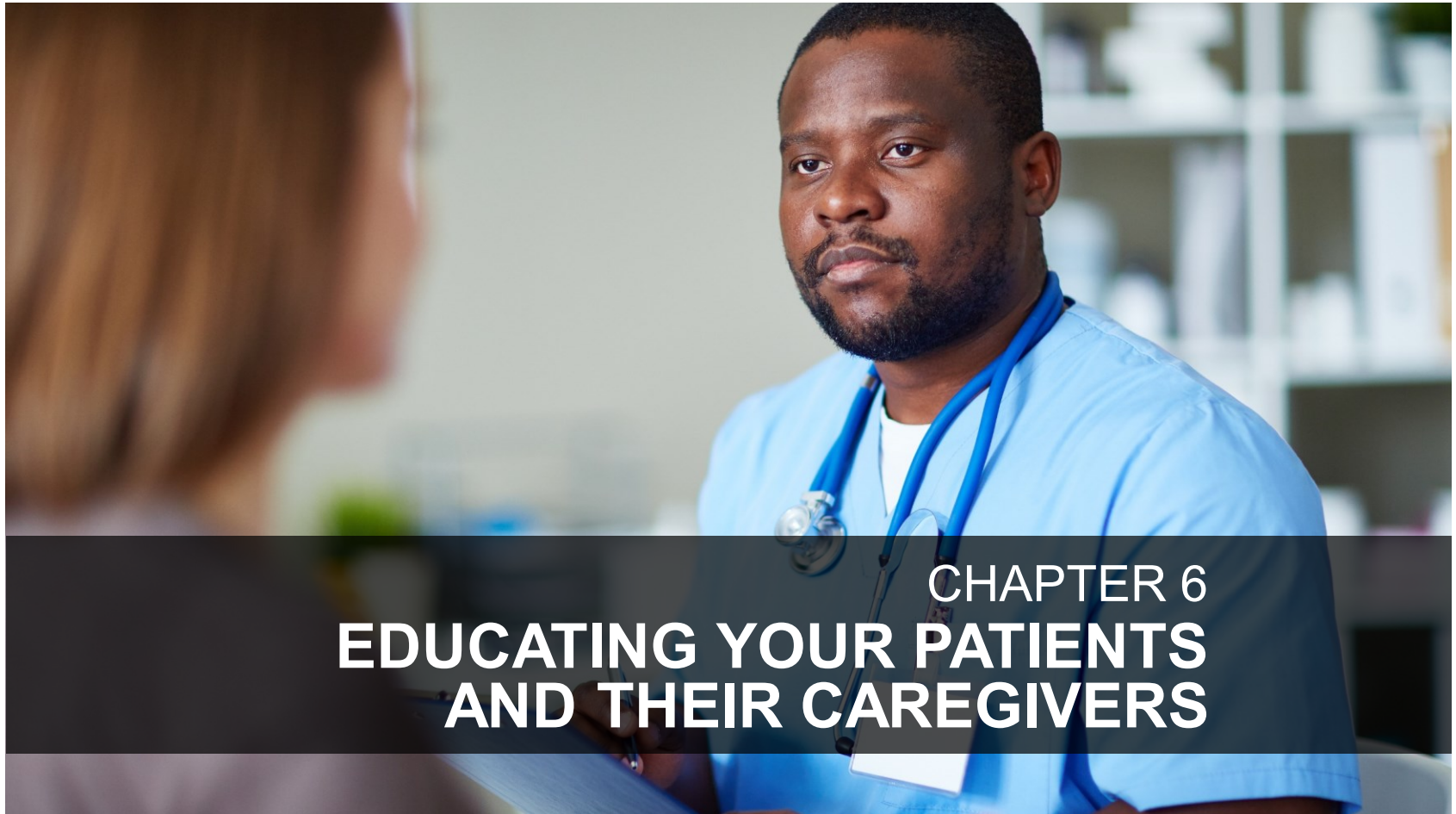
- Discontinue through a taper schedule
- If OUD suspected:
 - Begin treatment: Medications for Opioid Use Disorder (MOUD)
 - Refer to an OUD specialist
- Consider rotation to partial agonist (e.g., buprenorphine)
- No single approach is appropriate for all patients
- May use a range of approaches, from a slow 10% dose reduction per week to a more rapid 25%–50% reduction every few days
- To minimize withdrawal symptoms in patients physically dependent on opioids, consider medications to assist with withdrawal (clonidine, NSAIDs, antiemetics, antidiarrheal agents)

CONSULTING A PAIN SPECIALIST

- Appropriate when you feel you cannot provide the level of care needed
- First ensure you have a reliable specialist to refer to
- To find a pain specialist in your area:
 - Consult with state boards
 - Consult with colleagues
 - Use online resources
 - Consult payment source
- Prior to referral, contact the specialist and ask what is needed for referral



Adequately **DOCUMENT**
all patient interactions,
assessments, test results,
treatment plans,
and expectations.



CHAPTER 6
EDUCATING YOUR PATIENTS
AND THEIR CAREGIVERS

COUNSEL PATIENTS ABOUT PROPER USE

- Take opioid as prescribed
- Use least amount of medication necessary for shortest time
- Use caution with long-term opioid use patients; avoid abrupt discontinuation or dose reduction; taper safely to avoid withdrawal symptoms
- Notify HCP if pain is uncontrolled
- Report side effects to HCP
- Inform HCP of ALL meds and supplements being taken
- Never share or sell opioids: can lead to others' deaths, against the law
- Use caution when operating heavy machinery and driving



USE FDA PATIENT COUNSELING DOCUMENT

- What are opioids?
- What are the risks and benefits?
- How to take safely

<https://tinyurl.com/5n6z2dta>

What You Need to Know About Opioid Pain Medicines

This guide is for you! Keep this guide and the Medication Guide that comes with your medicine so you can better understand what you need to know about your opioid pain medicine. Go over this information with your healthcare provider. Then, ask your healthcare provider about anything that you do not understand.

What are opioids?
Opioids are strong prescription medicines that are used to manage severe pain.


What are the serious risks of using opioids?

- Opioids have serious risks of addiction and overdose.
- **Too much opioid medicine in your body can cause your breathing to stop – which could lead to death.** This risk is greater for people taking other medicines that make you feel sleepy or people with sleep apnea.
- **Addiction** is when you crave drugs (like opioid pain medicines) because they make you feel good in some way. You keep taking the drug even though you know it is not a good idea and bad things are happening to you. Addiction is a brain disease that may require ongoing treatment.

Risk Factors for Opioid Abuse:

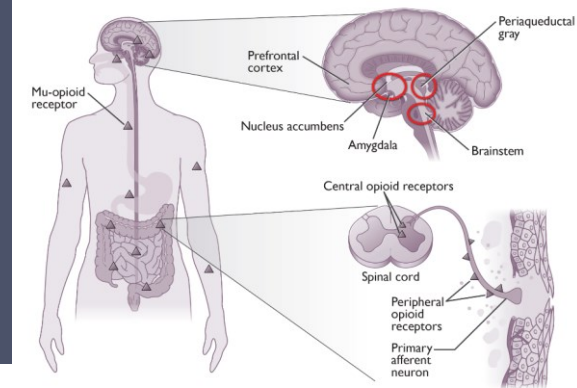
- You have:
 - » a history of addiction
 - » a family history of addiction

- Take your opioid medicine exactly as prescribed.
- Do not cut, break, chew, crush, or dissolve your medicine. If you cannot swallow your medicine whole, talk to your healthcare provider.
- When your healthcare provider gives you the prescription, ask:
 - » How long should I take it?
 - » What should I do if I need to taper off the opioid medicine (slowly take less medicine)?
- Call your healthcare provider if the opioid medicine is not controlling your pain. Do not increase the dose on your own.
- **Do not share or give your opioid medicine to anyone else.** Your healthcare provider selected this opioid and the dose just for **you**. A dose that is okay for you could cause an overdose and death for someone else. Also, it is against the law.
 - Store your opioid medicine in a safe place where it cannot be reached by children or stolen by family or visitors to your home. Many teenagers like to experiment with pain medicines. Use a lock-box to keep your opioid



PROVIDE ANTICIPATORY GUIDANCE ON OPIOID SIDE EFFECTS AND ADVERSE EVENTS

- Overdose and death: respiratory depression
- Opioid-induced constipation (OIC): most common
- Nausea, vomiting, GERD
- Sexual dysfunction and other endocrine abnormalities (hypogonadism)
- Tolerance, physical dependence
- Hyperalgesia
- Allergic reactions
- Sedation, cognitive impairment
- Falls and fractures
- Sweating, miosis, urinary retention
- Myoclonus (twitching or jerking)
- Opioid use disorder (OUD)



COUNSEL PATIENTS AND CAREGIVERS

WARNINGS (Safe Administration)

- Never break, chew, crush, or snort an opioid tablet/capsule
- Never cut or tear patches or buccal films
- If patient cannot swallow, determine if appropriate to sprinkle contents on applesauce or administer via feeding tube
- Use of CNS depressants or alcohol with opioids can cause overdose

WHAT TO LOOK FOR (Safety Concerns)

- Cravings
- Being unable to fulfill work/family obligations
- Nodding off
- Taking more than prescribed

OPIOID-INDUCED RESPIRATORY DEPRESSION

If not immediately recognized and treated, may lead to respiratory arrest and death

More likely to occur in opioid-naïve patients during initiation or after dose increase

Instruct patients/family members to:

- Screen for shallow or slowed breathing
- Deliver NALOXONE
- **CALL 911**

Instructions may differ if patient is on hospice or near end of life

Greatest risk: when co-prescribed with a benzodiazepine

SIGNS OF ACCIDENTAL OPIOID POISONING: **CALL 911**

- Person cannot be aroused or is unable to talk
- Any trouble with breathing, heavy snoring is warning sign
- Gurgling noises coming from mouth or throat
- Body is limp, seems lifeless; face is pale, clammy
- Fingernails or lips turn blue/purple
- Slow, unusual heartbeat or stopped heartbeat

Administer Naloxone



NALOXONE

WHAT IT IS:

- An opioid antagonist administered intranasally (most common) or parenterally
- Reverses acute opioid-induced respiratory depression but will also reverse analgesia; may precipitate acute opioid withdrawal
- No misuse potential

WHAT TO DO:

- Discuss an overdose plan with patients; involve family/caregivers
- Ensure family/caregivers have access to naloxone; some states *require* co-prescribing
- Involve and train family, friends, partners, and/or caregivers in the proper administration of naloxone
- Know your local naloxone resources (e.g., the library, community centers)
- Check expiration dates and replace expired naloxone
- In the event of known or suspected overdose, **call 911** and administer naloxone

NALOXONE OPTIONS

- Available as auto-injector, intramuscular injection, or nasal spray
- Cost and insurance coverage vary
- Make use of tutorial videos or live demonstration to educate patient/family/caregiver on proper administration
- Store at room temperature



Naloxone vials



Narcan nasal spray



Evzio (auto-injector)

Trade names are used for identification purposes only and do not imply endorsement.

SOURCE: FDA Information About Naloxone,
<https://www.fda.gov/Drugs/DrugSafety/PostmarketDrugSafetyInformationforPatientsandProviders/ucm472923.htm>

SAFE OPIOID STORAGE AND DISPOSAL



STEP 1: MONITOR

- Note how many pills are in each prescription
- Keep track of dosage and refills
- Make sure everyone in the home knows meds are tracked (if appropriate)

STEP 2: SECURE

- Keep meds in a safe place (locked cabinet or box)
- Store away from children, family, visitors, and pets
- Extra precautions needed with adolescents in the home

STEP 3: DISPOSE

- Discard expired or unused meds
- Check your local disposal options (e.g., pharmacy, police)

SOURCE: McDonald E, Kennedy-Hendrick A, McGinty E, Shields W, Barry C, Gielen A. Pediatrics. 2017;139(3):e20162161

WHERE AND HOW TO DISPOSE OF UNUSED OPIOIDS



Authorized Collection Sites

- Use the DEA disposal locator website to find sites near you: <https://apps.deadiversion.usdoj.gov/pubdispsearch>
- Search Google Maps for "drug disposal nearby"

Options

- Check with local pharmacy for disposal options
- Flush
 - Fold patch in half so sticky sides meet, then flush
- Trash (mix with noxious element like kitty litter or compost)



Mail-Back Packages

- Obtain from authorized collectors

SOURCES: FDA. Where and How to Dispose of Unused Medicines. <https://www.fda.gov/consumers/consumer-updates/where-and-how-dispose-unused-medicines>

EPA. How to Dispose of Medicines Properly. <https://archive.epa.gov/region02/capp/web/pdf/ppcplflyer.pdf>

Pain Management and Opioids: Balancing Risks and Benefits

State Specific Information **Tennessee**

<https://www.tn.gov/health/health-program-areas/health-professional-boards/csmd-board/csmd-board/about.html>

Updated: October 2022

The CO*RE State Information Hub is updated three times per year. Since opioid prescribing policies, laws, and regulations change rapidly, please check your state's regulations for the most up-to-date information.



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Content Outline

- **Opioid Prescribing Rates and Overdose Deaths**
- **Prescription Drug Monitoring Program (PDMP)**
- **Prescribing Limits, Status and Education Requirements**
- **Naloxone Regulation**
- **Medical and Recreational Marijuana Status**

PDMP: Prescription Drug Monitoring Program

General

- <https://www.tn.gov/health/health-program-areas/health-professional-boards/csmd-board/csmd-board/about.html>
- **TN Controlled Substances Monitoring Database Program**
Administered by **Department of Health**
- **Schedule II-V** are monitored
- **Dispensers and prescribers are required** to register and input data
- Before prescribing, there **is an obligation** to review under certain circumstances
- Prescribers **can authorize** a registered delegate

Reporting

- Must be entered into PDMP **by close of business-on-business day** after dispensing
- Unsolicited reports/alerts **are sent** to prescribers, dispensers, licensing boards, law enforcement
- Tennessee **does share** data with other states' PDMP
- Out-of-state pharmacies **are required** to report to the patient's home state
- Patient **will not be notified** if their record has been accessed

https://namsdl.org/doc-library/?fwp_document_type=map January 2019

<http://www.pdmpassist.org/content/pdmp-maps-and-tables> September 2022

Prescribing Limits, Status & Education Requirements

Initial prescribing limits for acute pain: 3-day initial limit for new patient

	Physician	Physician Assistant	Advanced Practice Nurse
Prescriber Status	Licensed	Schedule II-V	Schedule II-V
Education Requirements	2 hrs./2 yrs.	2 hrs./2 yrs.	2 hrs./2 yrs.

*Special rules apply for Schedule II

<http://www.fsmb.org/siteassets/advocacy/key-issues/continuing-medical-education-by-state.pdf>, August 17, 2022

[Opioid prescription limits and policies by state – Ballotpedia](#), April 4, 2022

www.netce.com/ce-requirements/

Naloxone Regulation

Effective date	<ul style="list-style-type: none"> • July 2017
Criminal Immunity	<ul style="list-style-type: none"> • Prescribers: yes • Dispensers: yes • Lay People: yes
Also Available	<ul style="list-style-type: none"> • Without Prescription: Yes • To 3rd Party: Yes • By Standing Order: Yes
Carried by First Responders	<ul style="list-style-type: none"> • Yes

<https://www.networkforphl.org/wp-content/uploads/2021/05/NAL-Final-4-29.pdf>, July 1, 2020

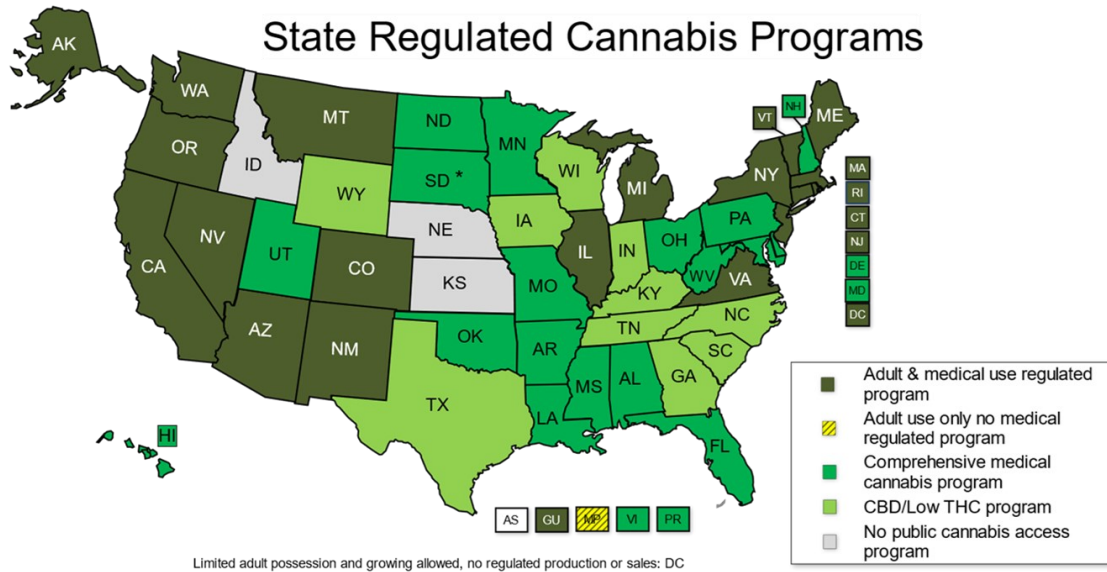
State Naloxone Access Rules and Resources - SAFE Project, September 2022

<https://legislativeanalysis.org/wp-content/uploads/2021/05/Naloxone-Access-Summary-of-State-Laws-Final.pdf> Oct 2020

Marijuana Status

Medical

State Regulated Cannabis Programs



Limited adult possession and growing allowed, no regulated production or sales: DC

May 2022

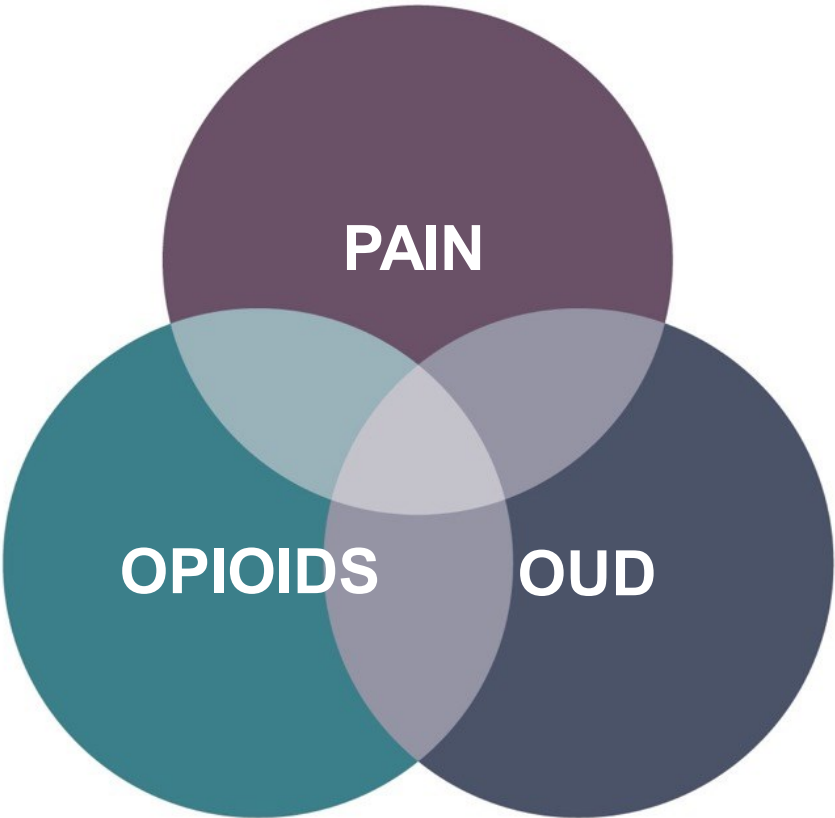
Recreational **Not legal for recreational use in Tennessee**

<https://www.ncsl.org/research/health/state-medical-marijuana-laws.aspx>, July 18, 2022





CHAPTER 7
UNDERSTANDING OPIOID
USE DISORDER (OUD)



WHAT IS ADDICTION?

PRACTICAL DEFINITION:

Addiction is the continued use of drugs or activities, despite knowledge of continued **harm** to one's self or others.

OFFICIAL ASAM DEFINITION:

Addiction is a treatable, chronic medical disease involving complex interactions among brain circuits, genetics, the environment, and an individual's life experiences. People with addiction use substances or engage in behaviors that become compulsive and often continue despite harmful consequences. Prevention efforts and treatment approaches for addiction are generally as successful as those for other chronic diseases.



OPIOID USE DISORDER: DSM-5-TR CRITERIA

Be alert to these factors in your patients on long-term opioid therapy

1. Taking larger amounts and/or for longer periods than intended
2. Persistent desire or inability to cut down or control use
3. Increased time spent obtaining, using, or recovering
4. Craving/compulsion to use opioids
5. Role failure at work, home, school
6. Social or interpersonal problems
7. Reducing social, work, recreational activity
8. Physical hazards
9. Physical or psychological harm

- ❖ Tolerance
- ❖ Withdrawal



- 2–3 = mild
- 4–5 = moderate
- ≥6 = severe

- ❖ **Not valid if opioid is taken as prescribed**

WORDS MATTER



HOW TO IDENTIFY RISK FOR MY PATIENTS

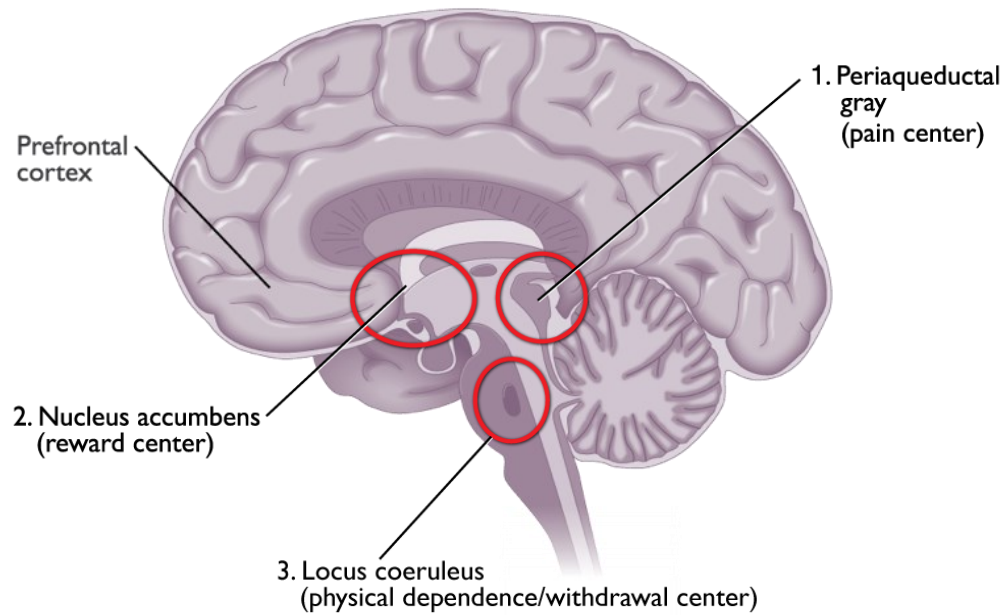
10%–26% of patients on chronic opioid therapy (COT) for chronic noncancer pain (CNCP) may develop an OUD

What to look for:

- High dosages
- Prolonged use
- Low hedonic tone
- Mental health disorders
- Past history of substance use disorder

**Clinical
judgment
is key.**

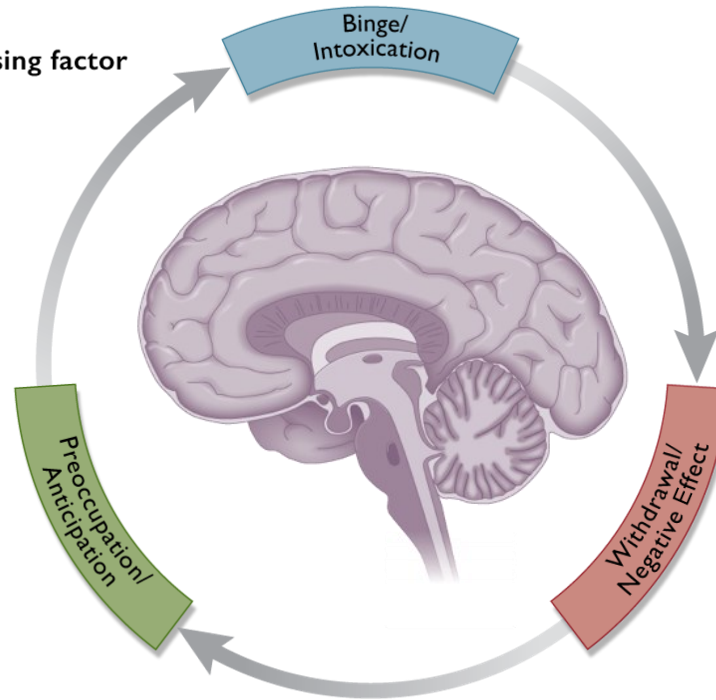
OPIOID RECEPTORS IN THE BRAIN: RELATIONSHIP TO ANALGESIA, OUD, AND WITHDRAWAL



THE CYCLE OF SUBSTANCE USE DISORDER

NEUROTRANSMITTERS

- Dopamine
- Opioid peptides
- Corticotropin-releasing factor
- Dynorphin
- Glutamate



Medication for Opioid Use Disorder (MOUD)

- Important and evidence-based medication that saves lives
- You can start from your office, as an outpatient
- Patients with OUD have decreased mortality when treated

There are three medication options:

1. Buprenorphine (Schedule III)
2. Methadone (Schedule II)
3. Naltrexone (not a controlled substance)

Are we just replacing
one drug with
another?
Myth or fact?

BUPRENORPHINE

- The most commonly prescribed pharmacotherapy for the treatment of OUD
- Partial mu-agonist with “plateau effect” for respiratory depression
- Good efficacy and safety profile
- Congress eliminated the X-waiver requirement to prescribe Bup
- All DEA-licensed HCPs can prescribe without patient number caps
- Long-acting and sublingual form indicated to treat opioid withdrawal and craving

FDA-approved bup products for pain:

- Butrans: 7-day transdermal patch
- Belbuca: buccal mucosal film; BID dosing

AVOID OTHER SUBSTANCES THAT COULD CONTRIBUTE TO AN ACCIDENTAL OVERDOSE

- Benzodiazepines (BZDs), sedatives, muscle relaxants; they are CNS depressants
- More than 30% of opioid overdoses involve benzodiazepines (BZDs)
- Use a comprehensive SUD evaluation to support recovery efforts for all substances



SOURCE: NIDA. Takaki H, et al. Am Journal Addictions. 2019;1-8.

USE A WHOLE-PERSON APPROACH WHEN TREATING A PATIENT WITH OUD FOR PAIN

- Must address *both* pain and opioid use disorder
- Remember that untreated pain is a trigger for return to use
- Avoid other potentially problematic medications
- Consider a multimodal pain program, including non-pharma options
- Avoid stigmatizing patients who are on long-term opioids for pain

- Consider buprenorphine for both pain and OUD
- Enlist patient's family/caregivers to secure and dispense opioids
- Recommend an active recovery program
- Remember to use PDMP
- Use screening methods (UDT, pill counts, PPA) to identify challenges and initiate discussion

SOURCE: Bailey J, et al. Pain Med 2010;11:1803-1818.

REFERRALS AND TREATMENT CENTERS

ASAM, SAMHSA, and AAAP are all helpful referral resources.

ASAM resources:

https://asam.ps.membersuite.com/directory/SearchDirectory_Criteria.aspx

SAMHSA locator: <https://findtreatment.samhsa.gov/locator>

AAAP locator: <https://www.aaap.org/patients/find-a-specialist/>

The image displays two website screenshots. On the left is the ASAM (American Society of Addiction Medicine) website, showing a search membership directory with fields for First Name, Last Name, City, State, ZIP/Postal Code, and Country. On the right is the SAMHSA (Substance Abuse and Mental Health Services Administration) website, showing a search bar and navigation menu. The SAMHSA website features a 'Find Help & Treatment' section with three helplines: National Suicide Prevention Lifeline (1-800-273-8255), National Helpline (1-800-662-HELP), and Disaster Distress Helpline (1-800-985-5990). It also includes a 'Treatment Locators' section with links to Behavioral Health Treatment Services Locators, Buprenorphine Physician & Treatment Program Locator, Early Serious Mental Illness Treatment Locator, and Opioid Treatment Program Directory.

IN SUMMARY

- 📶 There is a place for opioids, but use caution
- 📶 Use multimodal therapies as part of the pain management care plan
- 📶 Screen for OUD risk with a validated instrument
- 📶 Continually reassess patients using opioids
- 📶 Patient and family/caregiver education is essential
- 📶 If you suspect an OUD, begin treatment

Please complete the evaluation for this session

bit.ly/23CORE

THANK YOU!
WWW.CORE-REMS.ORG

