# Safe Prescribing Practices

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#### Disclosure

• I have no financial conflicts of interest to disclose.

#### Objectives

- Discuss the impact of opioid abuse/misuse in society
- Identify issues faced by prescribers
- Define ways to recognize opioid abuse
- Identify high risk opioid formulations
- Develop methods to improve safety of prescribing habits

## Epidemiology 1, 2, 3, 4

- Increasing incidence of opioid use disorder and overdoses have reached epidemic proportions
- Over 3 million people aged ≥ 12 years old reported past month misuse of prescription pain medication (and this is from 2015)
- Prescription opioids are often obtained from a friend or relative rather than from a prescriber
- Available evidence suggests first opioids abused are often prescription drugs → later leading to illicit drug use

#### Issues Prescribers Face <sup>5</sup>

- Primary care physicians report concerns regarding pain medication misuse
  - Managing patients with chronic pain can be stressful
  - Concern for addiction
  - Insufficient training on prescribing opioids
- Opioid medications are effective at controlling pain, but at what cost?
  - Risk of addiction with prolonged use
  - Long term opioid therapy is often overprescribed for patients with chronic non-cancer pain
- There is a need for better clinician guidance on safe prescribing practices

# Recognizing Opioid Abuse <sup>6</sup>

#### • The 3 C's

- Loss of <u>C</u>ontrol
  - Reports lost/stolen medication
  - Calls for early refills
  - Seeks opioids from other sources
  - Withdrawal symptoms noted at appointments
- <u>Craving</u>, preoccupation with use
  - Recurring requests for dose increases
  - Increasing pain despite lack of disease progression
  - Dismissive of non-opioid treatments

- Use despite negative <u>Consequences</u>
  - Over-sedation/somnolence
  - Decreases in activity, functioning and/or relationships

# Determining Opioid Use for Chronic Pain <sup>5, 7</sup>

- A multimodal approach with non-pharmacologic and non-opioid therapy is preferred
  - If opioids are used, be sure to include non-pharm and non-opioid therapies as well
- Before starting opioid therapy, clear treatment goals should be established
  - Realistic goals for pain and function
- Risks and realistic benefits of opioid therapy should always be discussed with patient before and during treatment
  - Patient and clinician responsibilities for managing therapy should also be discussed regularly

#### Opioid Dosage and Overdose Risk <sup>5</sup>

- Opioid-related overdose risk is dose dependent
  - Higher opioid dosages associated with increased overdose risk

Opioid Dose (MME/day)	Odds of Overdose
< 20	Baseline Comparator
20 to < 50	1.3 – 1.9
50 to < 100	1.9 - 4.6
≥ 100	2.0 - 8.9

## Morphine Milligram Equivalents <sup>5, 7</sup>

Opioid	<b>Conversion Factor</b>
Codeine	0.15
Fentanyl transdermal (in mcg/hr)	2.4
Hydrocodone	1
Hydromorphone	4
Methadone	
1-20 mg/day	4
21-40 mg/day	8
41-60 mg/day	10
≥ 61-80 mg/day	12
Morphine	1
Oxycodone	1.5
Oxymorphone	3
Tapentadol	0.4

# Opioid Selection, Dosage, Duration <sup>5, 7</sup>

- ER/LA formulations are associated with serious risks per FDA
- Immediate-release opioids should be prescribed **instead of** extended-release/long-acting (ER/LA) opioids
- When started, the lowest effective dose should be prescribed
  - Special attention should be given to patients receiving ≥50 MME/day
  - Avoid increasing dose to ≥90 MME/day
- Encourage PRN dosing, avoid scheduled dosing
  - Time-scheduled opioid use associated with substantially higher daily average opioid dosage than PRN opioid use
- Long-term opioid use often stems from acute pain treatment
  - Prescribe the lowest effective dose of immediate-release opioids for shortest period of time
  - 3 days or less is sufficient in most cases; >7 days is rarely needed

#### Opioid Selection, Dosage, Duration <sup>5</sup>

- Methadone has been shown to account for as much as 1/3 of opioidrelated overdose deaths (in states participating in Drug Abuse Warning Network), despite representing <2% of opioid prescriptions outside of opioid treatment programs
  - Do not prescribe methadone for pain unless you are comfortable and well versed with the medications unique side effect profile and pharmacokinetic parameters

### Co-prescribing <sup>5, 7</sup>

- Avoid prescribing benzodiazepines and opioids concomitantly
- Studies show that concurrent use of benzodiazepines and opioids put patients at greater risk of fatal overdose
- 3 separate studies found evidence of concurrent use in 31-61% of fatal cases
  - Those who's deaths were related to opioids were more likely to have prescriptions from multiple physicians and pharmacies

# Assessing Risk / Addressing Harms of Use <sup>5, 7</sup>

- Before starting and during therapy continuation, evaluate risk factors for opioid-related harms
- Consider offering naloxone
  - History of overdose
  - History of substance abuse
  - High opioid dosages (≥50 MME/day)
  - Concurrent benzodiazepine use
- Review PDMP (Prescription Drug Monitoring Program) data
  - Recommended to query with every prescription

### Assessing Risk / Addressing Harms of Use <sup>5, 7</sup>

- Obtain urine drug test prior to starting opioid therapy for chronic pain
  - Consider repeating urine drug screen at least annually
  - Assess for prescribed medications as well as other controlled and illicit drugs
- Offer or arrange evidence-based treatment (medication-assisted treatment w/ buprenorphine or methadone) for patients with an opioid use disorder

#### Conclusion

- Opioid pain medications are extremely effective for managing pain, but need to be prescribed responsibly
- Avoid prescribing benzodiazepines and opioids concomitantly
- Avoid prescribing ER/LA opioid formulations, immediate release preferred
- PRN dosing schedules are preferred over around-the-clock dosing
- Utilize the PDMP to avoid overprescribing
- Identify clear and realistic pain management goals with patients

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