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B.C – COLONIAL TIMES

- 5000 BC The earliest reference to probable opium cultivation by the Sumarians
- 3500 BC The first types of beer, weak alcohols and wines began to emerge in ancient cultures
- 1525 Paracelsus (1490-1541) introduced laudanum, into the practice of medicine
- 1700s plant-based medications were used throughout the colonies; abuse substances were tobacco, alcohol, and opium

















FENTANYL AND FENTANYL ANALOGUES

FENTANYL

Lethal Dose

CARFENTANIL

OD deaths from fentanyl and fentanyl analogues, such as carfentanil, have increased 540% in three years.

Street fentanyl is illegally manufactured; it is generally NOT a diverted pharmaceutical product.

Two causes of fentanyl OD death: opioid-induced **respiratory depression** and **rigid chest wall syndrome**; higher or repeated doses of naloxone as required to reverse a fentanyl overdose.

Fentanyl is also found in heroin, cocaine, and methamphetamine.

Photo source: New Hampshire State Police Forensic Laboratory

HEROIN



| US DRUG CONTROL SPENDING |
|--------------------------|
| 0010 10 |

| Costs in Millions | | | | | | <u> </u> |
|------------------------------|----------|---------|---------|---------|----------|----------|
| | FY 2013 | FY 2014 | FY 2015 | FY 2016 | FY 2017 | FY 2018 |
| Treatment | 7.888.6 | 9481.8 | 9553.1 | 9845.1 | 10,580.8 | 10,783.4 |
| Percent | 31.3% | 36.9% | 36.9% | 36.6% | 38.5% | 38.9% |
| Prevention | 1274.9 | 1316.9 | 1341.5 | 1486.4 | 1507.4 | 1339.9 |
| Percent | 5.1% | 5.1% | 5.2% | 5.5% | 5.5% | 4.8% |
| Domestic law- enforcement | 8850.0 | 9348.8 | 9394.5 | 9282.8 | 9298.6 | 9235.8 |
| Percent | 35.1% | 36.3% | 36.3% | 34.5% | 33.8% | 33.3% |
| Interdiction | 3940.6 | 3948.8 | 3960.9 | 4734.7 | 4569.0 | 5022.4 |
| Percent | 15.6% | 15.3% | 15.3% | 17.6% | 16.6% | 18.1% |
| International | 1848.5 | 1673.1 | 1643.0 | 1524.9 | 1521.0 | 1375.0 |
| Percent | 7.3% | 6.4% | 6.3% | 5.7% | 5.5% | 5.0% |
| Total | 23,800.4 | 25724.9 | 25,893 | 26,874 | 27476.8 | 27756.5 |





ADVERSE EFFECTS OF OPIOIDS

DSM-V Substance Use Disorder Opioids:

 $\hfill\square$ Taking the opioid in larger amounts and for longer than intended

Wanting to cut down or quit but not being able to do it

□ Spending a lot of time obtaining the opioid

Craving or a strong desire to use opioids

□ Repeatedly unable to carry out major obligations at work, school, or home due to opioid use

Continued use despite persistent or recurring social or interpersonal problems caused by or made worse by opioid use

□ Stopping or reducing important social, occupational, or recreational activities due to opioid use

□ Recurrent use of opioids in physically hazardous situations

Consistent use of opioids despite acknowledgement of persistent or recurrent physical or psychological difficulties from using opioids

□ Tolerance defined as either a need for markedly increased amounts to achieve intoxication or desired effect or markedly diminished effect with continued use of the same amount.

□ Withdrawal, as manifested by either of the following:

The characteristic opioid withdrawal syndrome

Opioids are taken to relieve or avoid withdrawal symptoms.

□ Severe - > 6 criteria, Moderate - 4-5 criteria, Mild - 2-3 criteria

ADVERSE EFFECTS, CONT

- Misuse \rightarrow Use other than how prescribed:
 - To get high
 - More than prescribed
 - Selling, trading = "diversion"







- Constipation
- Nausea
- Itching
- Dizziness
- Clouded mentation
- Sedation/Respiration Depression
- Falls
- Overdose
- Death



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DEA SCHEDULED DRUGS

| SCHEDULE | DESCRIPTION | EXAMPLES | |
|----------|--|--|--------------|
| I. | High potential for abuse; no currently accepted medical use | Heroin, LSD, cannabis, ecstasy, peyote | |
| П | High potential for abuse, which may lead to severe psychological or physical dependence | Hydromorphone, methadone, meperidine, oxycodone, fentanyl, morphine, opium, codeine, hydrocodone combination products | FORCEMENT AU |
| Ш | 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, benzodiazepines, carisoprodol, clonazepam, clorazepate, diazepam, lorazepam, midazolam, temazepam, tramadol | |
| V | Low potential for abuse | Cough preparations containing ≤ 200 mg codeine/100 ml | |

| Mieuree | |
|---------------------------------------|---|
| wisuse | Use of a medication in a way other than the way it is prescribed |
| Abuse | Use of a substance with the intent of getting high |
| 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 |
| ММЕ | 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 |

HOW DID WE GET HERE?

- 1990s
 - Under-treatment of pain
 - Pain as the 5th vital sign
 - Pain as a human rights issue
 - Early data that opioid risks were low, some of which intentionally minimized
 - Intertwined cultural and medical trend towards "a pill for what ails ya'"





















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PRACTICAL TECHNIQUES FOR IMPROVING EFFICACY AND SAFETY OF OPIOID PRESCRIBING





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 recreational drug use
- · History of adverse childhood experiences
- Family history of substance use disorder and psychiatric disorders
- Depression and anxiety can be predictors of chronic pain








RISK ASSESSMENT TOOLS

| Tool | # of itemsAdministere | |
|---|-----------------------|-----------|
| Patients considered for long-term opioid therapy: | | d By |
| ORT Opioid Risk Tool | 5 | patient |
| SOAPP® Screener & Opioid Assessment for Patients w/ Pain | 24, 14, & 5 | patient |
| DIRE Diagnosis, Intractability, Risk, & Efficacy Score | 7 | clinician |
| Characterize misuse once opioid treatments begins: | | |
| PMQ Pain Medication Questionnaire | 26 | patient |
| COMM Current Opioid Misuse Measure | 17 | patient |
| PDUQ Prescription Drug Use Questionnaire | 40 | clinician |
| Not specific to pain populations: | | |
| CAGE-AID Cut Down, Annoyed, Guilty, Eye-Opener Tool, Adjusted to Include Drugs | 4 | clinician |
| RAFFT Relax, Alone, Friends, Family, Trouble | 5 | patient |
| DAST Drug Abuse Screening Test | 28 | patient |
| SBIRT Screening, Brief Intervention, & Referral to Treatment | Varies | clinician |



DEPRESSION SCREENING

- Bill 96127
- ICD 10: Z13.89
- <u>0-4</u> No Depression
- <u>5-9</u> Mild Depression
- <u>10-14</u> Moderate Depression
- <u>15-19</u> Moderately Severe Depression
- 20-27 Severe Depression



ASSESS RISK OF ABUSE, INCLUDING SUBSTANCE USE & PSYCHIATRIC HX

Obtain a complete Hx of current & past substance use

- Prescription drugs
- Illegal substances
- Alcohol & tobacco
 - Substance abuse Hx does not prohibit treatment w/ ER/LA opioids but may require additional monitoring & expert consultation/referral
- Family Hx of substance abuse & psychiatric disorders
- Hx of sexual abuse

Social history also relevant

Employment, cultural background, social network, marital history, legal history, & other behavioral patterns

| RISK ASSESSMENT | | |
|---|---|---------------------------|
| Be knowledgeable about risk factors for opioid abuse | Understand & use addiction or abuse screening tools | Conduct a UDT |
| Personal or family Hx of alcohol or drug abuse Younger age Presence of psychiatric conditions | Assess potential risks associated w/ chronic opioid therapy Manage patients using ER/LA opioids based on risk assessment | Understand limitations |
| | | |











SET FUNCTIONAL GOALS

Functional Status:

- What's a typical day like?
- What's the most active thing you do?
- Do you ever stay in bed all day?
- Do you get any exercise?
- How have these things changed over the past weeks/months/years? What would you (realistically) like to be able to do?





- Uncontrolled chronic pain is found more often in patients who
 - Are passive
 - Catastrophize
 - Perceive an external locus of control
- Counteract these by requiring the patient to make decisions and set goals with you.

























- Therapeutic trial in the harm/benefit paradigm
 - Set specific, functional goals
 - Refer back to those goals to assess benefit
- Which medication?
 - Long/short acting
 - Strength
 - Formulation
 - Abuse potential











SPECIAL CONSIDERATIONS: CHILDREN (<18 YEARS)

Safety & effectiveness of most ER/LA opioids unestablished

Pediatric analgesic trials pose challenges Transdermal fentanyl approved in children aged ≥2 yrs Oxycodone ER dosing changes for children ≥ 11 yrs (see Unit 6)

Most opioid studies focus on inpatient safety

Opioids are common sources of drug error

Opioid indications are primarily life-limiting conditions

Few children with chronic pain due to non-life-limiting conditions should receive opioids

When prescribing opioids to children:

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

CONSIDER A PPA Reinforce expectations for appropriate & safe opioid use

- Obtain opioids from a single prescriber
- Fill opioid prescriptions at a designated pharmacy
- Safeguard opioids
 - Safe Storeage
 - Keep locked (e.g., use a medication safe)
 - Do not share or sell medication
- Instructions for disposal when no longer needed

- Commitments to return for follow-up visits
- Comply w/ appropriate monitoring
 - E.g., random UDT & pill counts
- Frequency of prescriptions
- Enumerate behaviors that may lead to opioid discontinuation
- An exit strategy



| Therapeutic risks & per benefits do not remain static Identify patients Per con operations | eriodically assess ntinued need for |
|---|---|
| Affected by change in 14/1 I Git C De a | pioid analgesic |
| Affected by change in underlying pain condition, coexisting disease, or psychologic/ social circumstances Who are benefiting from opioid therapy Who might benefit more w/ restructuring of treatment or receiving additional services (e.g., addiction treatment) Whose benefits from treatment are outweighed by risks | evaluate underlying dical condition inical presentation nges |

MONITOR PATIENTS DURING OPIOID THERAPY, CONT

Periodically evaluate:

- Pain control
 - Document pain intensity, pattern, & effects
- Functional outcomes
 - Document level of functioning
 - Assess progress toward achieving therapeutic goals
- Health-related QOL
- AE frequency & intensity
- Adherence to prescribed therapies

Patients requiring more frequent monitoring include:

- High-risk patients
- Patients taking high opioid doses




















CO-PRESCRIBING NALOXONE

Naloxone: An opioid antagonist Reverses acute opioid-induced respiratory depression but will also cause withdrawal and reverse analgesia

- Administered intramuscularly and subcutaneously
- Intranasal formulation currently under consideration with the FDA

What to do:

- Encourage patients to create an 'overdose plan'
- Involve and train family, friends, partners and/or caregivers
- Check expiration dates and keep a viable dose on hand
- In the event of known or suspected overdose, administer Naloxone and **call 911.**

Available as:

- Naloxone kit (w/ syringes, needles)
- EVZIO™ (naloxon
- HCI) auto-injector
- NARCAN nasal spray





Caution Patients

 Sharing ER/LA opioids w/ others may cause them to have serious AEs
 Including death

 $Z \pm N$

- Selling or giving away ER/LA opioids is against the law
- Store medication safely and securely
 Protect ER/LA opioids from theft
- Protect ER/LA opioids from theft
- Dispose of any ER/LA opioids when no longer needed
 - Read product-specific disposal information included w/ ER/LA opioid

Know Your Poison Center's Number.







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STAY IN THE HARM/BENEFIT PARADIGM

- Explain how patient's behavior or the outcome of the treatment is not in line with the treatment agreement.
- Firm but empathic -- you will still work with pt on pain treatment and primary care
- Pt is not bad; treatment is not effective, not safe, not appropriate.
- Benefits no longer outweighing harms. "Cannot responsibly continue prescribing opioids as I feel it would cause you more harm than good."





WHAT WAS DONE/SHOULD HAVE **BEEN DONE IN ADVANCE**

- <u>Comprehensive approach to high-quality management of chronic pain</u>
 Treatment agreement: discussion with pt about risk and benefits
- "Fair warning" that UDTs would be done
- "Fair warning" that + UDT might mean discontinuing opioids
- · Practice-wide decision about how treatment agreement violations handled

WHAT TO DO NOW?

- · Get GC/MS confirmation of any unexpected result
- (if confirmed) Talk to patient, reveal result of test, ask him why he used
- · Show empathy but do not allow patient to dispute results
- Show empathy but do not allow patient to shift blame: 'I did it because my pain was out of control/you are not treating my pain'
- Based on practice policy, either begin opioid taper or 'second chance' with close monitoring (1-2 week follow up with UDT)
- Consider addiction referral based on your assessment



OPIOID MANAGEMENT: SUMMARY

- If prescribed, opioids for chronic pain must be part of a comprehensive pain management plan
- Treatment agreements are useful to keep everyone on the same page
- Patients must be monitored for the 5 As
- Know the tools available to you for monitoring and how to use them
- Opioids should be continued when effective and safe, discontinued if ineffective or unsafe
- Use this harm/benefit paradigm to help you communicate with patient
- Document



