Treatment of Pain: Opioid Choices and Issues for Patient and Practitioner

1-Hour Course Outline

Course Category: Pharmacology

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Course Description: This course describes opioid medications, emphasizing pain management in optometry and general pain management. Opioid mechanisms (efficacy/toxicity) will be discussed, including an evaluation of potential addiction, and how to protect both patient and practitioner.

Learning Objectives: After lecture presentation and discussion, participants will be able to:

- 1. Describe the commonly prescribed pain medication classes in terms of mechanisms, side effects, drug interactions, and applicability for pain management:
 - a. Opioids
 - i. Codeine-based
 - ii. Morphine-based
 - iii. Novel agents
 - b. Combination therapy
- 2. When given a patient case, choose an appropriate pain treatment plan for the management of ocular pain, in terms of drug(s), dosing issues, duration of treatment, and a monitoring plan for efficacy and toxicity.
- 3. List systems available to evaluate a patient for potential opioid/substance abuse.
- 1. Pain Definitions
 - a. Neuropathic
 - b. Nociceptive
 - i. Acute pain management
 - ii. Chronic pain management
 - c. Pain Scales
 - d. Pictures versus words versus numbers
 - i. Subjective versus objective
 - 2. Systemic pain meds brief descriptions
 - a. Opioids
 - i. Controlled substance category review

- 1. Schedule I
 - a. Research
 - b. Heroin
 - c. Medical marijuana
- 2. Schedule II
 - a. True "narcotics"
 - b. Codeine based
 - c. Morphine based
 - d. Amphetamines
- 3. Schedule III
 - a. Codeine
 - i. Types
- 4. Schedule IV
 - a. Tramadol
 - b. Benzodiazepines
- 5. Schedule V
 - a. No real value
- ii. State-by-state restrictions

3. Specific Medications

- 1. Mechanism of action
 - a. Mu, kappa, delta receptors
 - b. physiology
 - c. Codeine-based
 - i. Codeine
 - ii. Hydrocodone
 - iii. Oxycodone
 - iv. Indications of codeine-based oral analgesics in the ophthalmic setting
 - d. Morphine-based
 - i. Morphine sulfate
 - ii. Hydromorphone
 - iii. Oxymorphone
 - e. Novel agents
 - i. Tramadol
 - 1. Appropriate use scenarios
- 2. Adverse effects

- a. Sedation
- b. Miosis
- c. Constipation
 - i. Stool softener
 - ii. Stool softener + stimulant
- d. Euphoria/Dysphoria
- e. Pruritis
- f. Addiction potential
- g. Withdrawal
- 3. Allergy potential and cross-reactions
 - a. Histamine release
 - b. Type-I hypersensitivity reaction
- 4. Pain control comparisons
 - a. Mild Pain
 - b. Moderate Pain
 - c. Severe Pain
- 4. Agents for reversal of opioid overdose and for Opioid Use Disorder (OUD)
 - i. Specific agents
 - 1. Buprenorphine
 - 2. Naloxone
 - 3. Naltrexone
 - 4. Methadone
 - ii. Appropriate uses
 - iii. Adverse effects and risks
 - 2. Drug interactions
 - a. CNS depressant combinations
 - b. Non-opioid choices
 - i. Benefits of using opioid + non-opioid medications together
 - 1. Concept of "synergy"
 - ii. Acetaminophen
 - 1. Adverse effects
 - 2. Pain control
 - iii. NSAIDs
 - 1. Adverse effects
 - 2. Pain control
 - iv. COX-2 agents
 - 1. Mechanism of action brief description
 - 2. Adverse effects

a. Comparison to traditional NSAIDs

- 3. Pain control
- 5. Signs of opioid addiction
 - a. Identifying behavior of abuse/addiction
 - i. "fast talkers"
 - ii. new patients
 - iii. unequal diagnosis and pain response
 - iv. vitals
 - v. specific requests for agents
 - vi. strange "allergies"
 - vii. excuses
 - b. How to respond
 - i. Ways to check
 - ii. PDMP
 - 1. State data-bases
 - iii. Legal issues
 - iv. Ethical issues
 - c. Other ways to manage painful ophthalmic conditions