#### MEDICAL SCHOOL AND RESIDENCY PROGRAM CURRICULUM RESOURCES ON DRUG ABUSE AND ADDICTION

# Prescription Drug Abuse: An Introduction

Massachusetts NIDA Consortium

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These curriculum resources from the NIDA Centers of Excellence for Physician Information have been posted on the NIDA Web site as a service to academic medical centers seeking scientifically accurate instructional information on substance abuse. Questions about curriculum specifics can be sent to the Centers of Excellence directly. http://www.drugabuse.gov/coe

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# Prescription Drug Abuse Outline

- 1. Overview of Prescription Drug Abuse (PDA)
- 2. Framework for Safe Prescribing
- 3. Identifying PDA

## 1. Overview



# Prescription Drug Misuse (Definitions)

- Includes
  - Non-medical use
  - Substance abuse/PDA
  - Dependence
  - Addiction
  - Diversion
- Does NOT include physical dependence

## Prescription Drug Misuse (Definitions)

 Additional notes provided for slide 4 (see below)

# Opioid Dependence vs. Chronic Pain Managed with Opioids?

The diagnosis of Opioid Dependence requires 3 or more criteria occurring over 12 months

- 1. Tolerance YES
- 2. Withdrawal/physical dependence YES
- 3. Taken in larger amounts or over longer periods MAYBE
- 4. Unsuccessful efforts to cut down or control MAYBE
- 5. Great deal of time spent to obtain substance MAYBE
- 6. Important activities given up or reduced MAYBE
- 7. Continued use despite harm MAYBE

## Aberrant Medication-Taking Behavior

A spectrum of patient behaviors that may reflect misuse

- Health care use patterns (e.g., inconsistent appointment patterns)
- Signs/symptoms of drug misuse (e.g., intoxication)
- Emotional problems/psychiatric issues
- Lying and illicit drug use
- Problematic medication behavior (e.g., noncompliance)

#### **Implications**

- Concern comes from the "pattern" or the "severity"
- Differential diagnosis

Addiction Abuse/Dependence

**Prescription Drug Misuse** 

Aberrant Medication-Taking Behaviors (AMTBs)

A spectrum of patient behaviors that *may* reflect misuse

**Total Chronic Pain Population** 

# Which Prescription Medications Are Most Likely to Be Abused?

Commonly Abused Medications

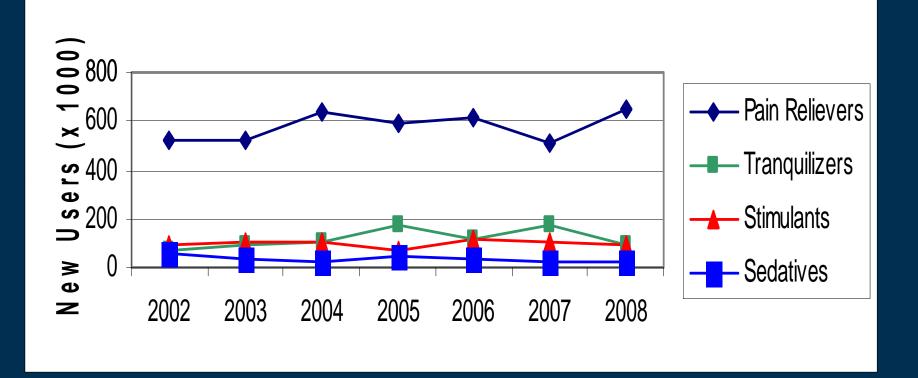
- Opioids
- CNS depressants
  - Benzodiazepines
  - Barbiturates
- Stimulants
- Others

# Which Prescription Medications are Most Likely to Be Diverted?

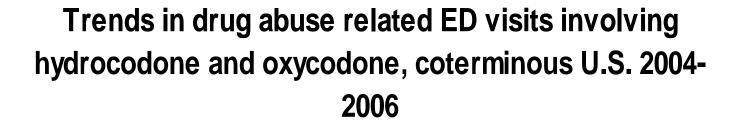
Important Drug Characteristics

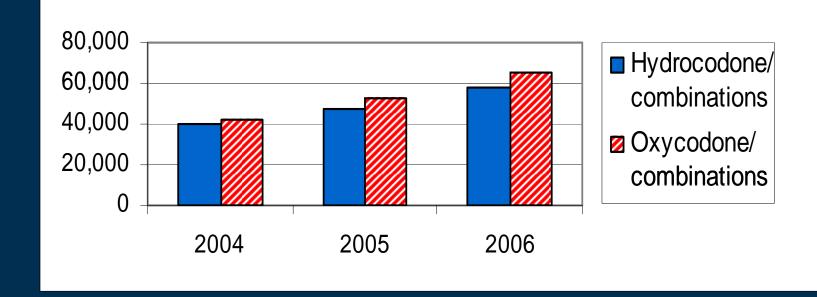
- Onset of action
- Intensity of effect
- Trade name > generic
- Cost and availability of illicit equivalent

# Past Year Initiation of Non-medical Use of Prescription-type Psychopharmaceutics, Age 12 or Older: In Thousands, 2002-2008



## Consequences of Prescription **Opioid Abuse**





## Another Factor Leading to Prescription Drug Misuse

Physician Over-Prescribing

#### Why Do Some Physicians Over-Prescribe?

- Duped
- Dated
- Dishonest
- Medication mania
- Hypertrophied enabling
- Confrontation phobia

Smith DE, Seymore RB. Proc White House Conf on Prescription Drug Abuse, 1980. Parran T. Medical Clinics of North America, 1997.

# Why do some Physicians Under-Prescribe? "Opiophobia"

- Overestimate potency and duration of action
- Fear being scammed
- Often prescribe too small of a dose and too long of a dosing interval
- Exaggerate addiction potential

# 2. Framework for Safe Prescribing



## What Is the Physician's Role?



VS.



#### When Are Opioids Indicated?

- Pain is moderate to severe
- Pain has significant impact on function
- Pain has significant impact on quality of life
- Non-opioid pharmacotherapy has been tried and failed
- Patient agreeable to close monitoring of opioid use (e.g., pill counts, urine screens)

## Opioid Efficacy in Chronic Pain

- Pain relief modest
  - Some statistically significant, others trend toward benefit
  - One meta-analysis decrease of 14 points on 100 point scale
- Limited or no functional improvement
- Most literature surveys & uncontrolled case series
- Randomized clinical trials (RCTs) are short duration < 4 months with small sample sizes < 300 pts
- Mostly pharmaceutical-company sponsored



## The Risk-Benefit Framework: Judge the Treatment, not the Patient

#### INAPPROPRIATE

- Is the patient good or bad?
- Does the patient deserve pain meds?
- Should this patient be punished or rewarded?
- Should I trust him/her?

#### **APPROPRIATE**

Do the benefits of this treatment outweigh the untoward effects and risks in this patient or to society?

#### Assess Potential Benefit of Opioids

- Assess current function
- What can patient expect to do with opioids that s/he cannot do now?
- Set Specific, Measurable, Actionoriented, Realistic, Time-dependent (SMART) goals for next visit
- Think of opioid prescription as a TEST

## Assess Potential Risks of Opioids

- Potential risks
  - Sedation, confusion, constipation, etc.
  - Addiction or diversion
- Characteristics that affect risk
- Use consistent approach, but set level of monitoring to match risk

#### What Is the Addiction Risk?

- Published rates of abuse and/or addiction in chronic pain populations are 3-19%<sup>1</sup>
- Suggests that known risk factors for abuse or addiction in the general population would be good predictors for problematic prescription opioid use
  - Past cocaine use, history of alcohol or cannabis use<sup>2</sup>
  - Lifetime history of substance use disorder<sup>3</sup>
  - Family history of substance abuse, a history of legal problems and drug and alcohol abuse<sup>4</sup>
  - Heavy tobacco use<sup>5</sup>
  - History of severe depression or anxiety<sup>5</sup>

<sup>1</sup> Fishbain et al. Clin J Pain, 1992; <sup>2</sup> Ives et al. BMC Health Services Research, 2006; <sup>3</sup> Reid et al. JGIM, 2002; <sup>4</sup> Michna el al. JPSM, 2004; <sup>5</sup>Akbik H., et al. JPSM, 2006.

# Screening Instruments for Addiction Risk

- Specific for opioid prescription abuse
- Specific for other addictions (CAGE, "single" question for alcohol, NIDAMED, etc.)

#### Opioid Risk Tool

- Provides 5-item initial risk assessment
- Stratifies risk groups into low (6%), moderate (28%) and high (91%)
  - Family History
  - Personal History
  - Age
  - Preadolescent sexual abuse
  - Past or current psychological disease
- www.emergingsolutionsinpain.com

#### Screening for Substance Use Disorders

#### CAGE

- Have you ever felt you should <u>Cut</u> down on your drinking?
- Have people <u>Annoyed</u> you by criticizing your drinking?
- Have you ever felt bad or <u>Guilty</u> about your drinking?
- Have you ever taken a drink first thing in the morning (<u>Eye-opener</u>) to steady your nerves or get rid of a hangover?

#### **CAGE-AID**

• Or drug use?

• Or drug use?

Or drug use?

• Or used drugs?

# Screening for Substance Abuse Disorders Using "Single" Questions

- "Do you sometimes drink beer, wine, or other alcoholic beverages? How many times in the past year have you had 5 (4 for women) or more drinks in a day?" (+ answer: > 0)
- "How many times in the past year have you used an illegal drug or used a prescription medication for non-medical reasons?" (+ answer: > 0)

## Comprehensive Drug Use Screening and Assessment: NIDA-Modified ASSIST

- Interactive online screening tool, includes tobacco, alcohol, prescription, and illicit drugs
- Pre-screens patients for lifetime use
  - 4 questions about substance use in past 3 months; and
  - 2-3 follow-up questions for each substance used in lifetime
- Generates a numeric Substance Involvement score that suggests the level of medical intervention necessary
- NMASSIST Clinicians Resource Guide, includes:
  - Step by step instructions for screening tool
  - Scripts on how to discuss drug use with patients; and
  - Information on biological specimen screening, sample progress notes/ worksheets, additional resources, and links to treatment facility locators

http://www.drugabuse.gov/nidamed/screening/

## Setting Goals: the Four A's

- Analgesia
- Activities of daily living
- Avoid Adverse events
- Avoid Aberrant medication-related behaviors

## Management of Opioid Therapy

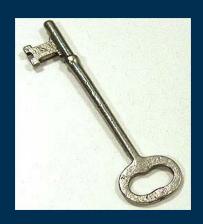
- Assess and document benefits and harms
- To continue opioids:
  - -There must be actual functional benefit
  - Benefit must outweigh observed or potential harms
- You do not have to prove addiction or diversion, only assess risk-benefit ratio

#### SAFE Score

- Clinician-generated
- Four domains over past month
  - Social functioning (marital, family, friends, etc.)
  - Analgesia (intensity, frequency, duration)
  - Physical functioning (work, ADLs, home, etc.)
  - Emotional functioning (stress, mood, etc.)
- Each scored on 5 point scale
  - 1 (Excellent) to 5 (Poor)
  - Total score 4 20
- Not validated

#### SAFE Score

- Green Zone (4-12)
  - Continue current medical regimen
  - Consider reducing total dose
- Yellow Zone (13-16 or 5 in any category)
  - Monitor closely
  - Reassess frequently
- Red Zone (≥ 17)
  - Change treatment



## Monitoring, Monitoring, Monitoring... "Universal Precautions"

- Contracts/Agreement form
- Drug screening
- Prescribe small quantities
- Frequent visits
- Single pharmacy
- Pill counts

FSMB Guidelines, 2004

(http://www.fsmb.org/pdf/2004\_grpol\_Controlled\_Substances.pdf);

Gourlay DL, Heit HA. Pain Med, 2005.

#### Contracts/Agreements/Informed Consent

#### **PURPOSE**:

- Educational and informational, articulate rationale and risks of treatment
- Articulate monitoring (pill counts, etc.) and action plans for aberrant medication-taking behavior
- Take "pressure" off provider to make individual decisions (Our clinic policy is...)
- Prototype: http://www.painedu.org

#### **LIMITATIONS:**

- Efficacy not well established (although no evidence of a negative impact on patient outcomes)
- No standard or validated form

#### Informed Consent

PURPOSE: A process of communication between a patient and physician that provides patients with the opportunity to ask questions to elicit a better understanding of the treatment or procedure, so that he or she can make an informed decision to proceed or to refuse a particular course of medical intervention.

#### Informed Consent

## SPECIFIC RISKS OF THE TREATMENT (long-term opioid use):

- Side effects (short and long term)
- Physical dependence, tolerance
- Risk of drug interactions or combinations (respiratory depression)
- Risk of unintentional or intentional misuse (abuse, addiction, death)
- Legal responsibilities (disposing, sharing, selling)

## Monitoring: Pill (and Used Patch) Counts



## Monitoring: Urine Drug Tests

## Purpose

- Evidence of therapeutic adherence
- Evidence of non-use of illicit drugs

Results of study from pain medicine practice (n=122)

- 22% of patients had aberrant medication taking behaviors
- 21% of patients had NO aberrant behaviors BUT had abnormal urine drug test

Therefore, aberrant behavior and urine drug test monitoring are both important.

## Monitoring: Urine Drug Tests

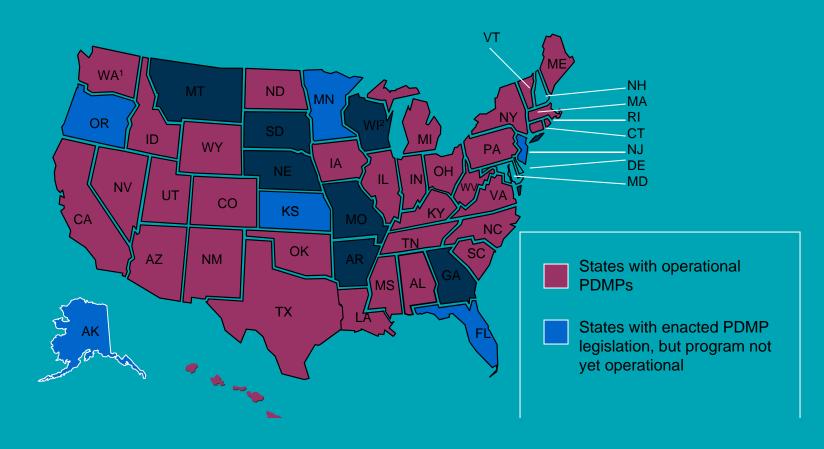
- Implementation Considerations
  - Know limitations of test and your lab
  - Be careful of false negatives and positives
  - Talk with the patient: "If I check your urine right now will I find anything in it?"
  - Random versus scheduled
  - Supervised, temperature strips, check Cr
  - Chain-of-custody procedures

Gourlay DL, Heit HA, Caplan YH. Urine drug testing in primary care: Dispelling myths and designing strategies monograph (www.familydocs.org/files/UDTmonograph.pdf).

## Prescription Monitoring Programs

- State-instituted programs
- Electronic access to history of prescribed (and filled) scheduled drugs
  - Required pharmacy data reporting
- States vary
  - Reporting of Schedules (II or II-IV)
  - Response to inquiries: reactive or proactive
- Safeguards for patient confidentiality

## **Status of State Prescription Drug Monitoring Programs (PDMPs)**



<sup>&</sup>lt;sup>1</sup>Washington has temporarily suspended its PMP operations due to budgetary constraints.





<sup>&</sup>lt;sup>2</sup>Legislation has been proposed in Wisconsin that ,if passed, would establish a PDMP.

## Not Enough Benefit?

- Reassess factors affecting pain
- Re-attempt to treat underlying disease and co-morbidities
- Consider escalating dose as a "test"
- No effect = no benefit; hence, benefit cannot outweigh risks – so STOP opioids (Okay to taper and reassess)

## Too Much Risk?

# Differential dx for aberrant medication – taking behavior, then match action to cause:

- Miscommunication of expectations: patient education
- Unrelieved pain: change of dosage or medication
- -Addiction: referral to addiction treatment
- Diversion: STOP medication

## Case

- 42-year-old male with h/o total hip arthroplasty
   (THA) presented for 1<sup>st</sup> time visit with c/o hip pain
- One year ago displaced left femoral neck fracture requiring THA with subsequent chronic hip pain
- Pain managed by his orthopedist initially with oxycodone and more recently with ibuprofen
- Recent extensive reevaluation of his hip pain was negative

- Requested that his orthopedist prescribe something stronger like "oxys" for his pain as the ibuprofen was ineffective
- Told to discuss his pain management with his primary care physician (you)
- On disability since his hip surgery and lives with his wife and 2 children
- Denies current or past alcohol, tobacco, or drug use

- Meds: Ibuprofen 800 mg TID
- Walks with a limp, uses a cane, vitals normal,
   6 ft, 230 lbs
- Large, well-healed scar over the left lateral thigh/hip with no tenderness or warmth over the hip, full range of motion
- Doesn't want to return to his orthopedist because "he doesn't believe that I am still in pain"

- In summary, 42-year-old man on disability with chronic hip pain who is requesting "oxycodone"
- Is he drug seeking?
- Are opioid analgesics indicated?

## Is the Patient "Drug Seeking?"

- Directed or concerted efforts to obtain medication
- It is difficult to distinguish...
  - ...inappropriate drug-seeking from...
  - ...appropriate pain relief-seeking

# 3. Identifying Prescription Drug Abuse



## Aberrant Medication-Taking Behavior more likely to be Suggestive of Addiction

- Deterioration in functioning at work or socially
- Illegal activities selling, forging, buying from nonmedical sources
- Injection or snorting medication
- Multiple episodes of "lost" or "stolen" scripts
- Resistance to change therapy despite adverse effects
- Refusal to comply with random drug screens
- Concurrent abuse of alcohol or illicit drugs
- Use of multiple physicians and pharmacies

## Aberrant Medication-Taking Behavior less likely to be Suggestive of Addiction

- Complaints about need for more medication
- Drug hoarding
- Requesting specific pain medications
- Openly acquiring similar medications from other providers
- Occasional unsanctioned dose escalation
- Nonadherence to other recommendations for pain therapy

# Current Opioid Misuse Measure (COMM<sup>TM</sup>)

- 17-item self report for <u>ongoing</u> risk assessment
- Questions based on 6 primary concepts underlying medication misuse
- Helps to identify patients at high risk for current aberrant medication-taking behavior
- A high score raises concern for PDA but is NOT diagnostic

## One Month Later

- He is currently taking oxycodone 5 mg 1 tablet every 6 hours (120/month) as you prescribed
- He rates his pain as "15" out of 10 all the time and describes no improvement in function
- Should you increase his dose of oxycodone?

## Opioid Responsiveness/Resistance

- Degree of pain relief with
  - Maximum opioid dose
  - In the absence of side effects, e.g., sedation
- Not all pain is opioid responsive
  - Varies among different types of pain
    - Acute > Chronic
    - Nociceptive > Neuropathic
  - Varies among individuals

## Pseudo-Opioid Resistance

- Some patients with adequate pain relief believe it is not in their best interest to report pain relief
  - Fear that care would be reduced
  - Fear that physician may decrease efforts to diagnose problem

- Transition to sustained release morphine and signed controlled substance agreement
- After a stable period of several months, he surprises you by presenting without an appointment requesting an early refill
- Is he addicted?

## Aberrant Medication-Taking Behavior

## Aberrant Medication-Taking Behaviors Differential Diagnosis

- Inadequate analgesia "Pseudoaddiction"
- Disease progression
- Opioid resistant pain (or pseudo-resistance)<sup>2</sup>
- Addiction
- Opioid analgesic tolerance<sup>3</sup>
- Self-medication of psychiatric and physical symptoms other than pain
- Criminal intent diversion

# Approaching Patient with Aberrant Medication-Taking Behavior

- Take non-judgmental stance
- Use open-ended questions
- State your concerns about the behavior
- Examine the patient for signs of flexibility
  - More focused on specific opioid or pain relief
- Approach as if they have a relative contraindication to controlled drugs (if not absolute contraindication)

## Discussing Lack of Benefit

- Stress how much you believe in/empathize with patient's pain severity and impact
- Express frustration re: lack of good pill to fix it
- Focus on patient's strengths
- Encourage therapies for "coping with" pain
- Show commitment to continue caring about patient and pain, even without opioid rx
- Schedule close follow-ups during and after taper

## Discussing Possible Addiction

- Explain why aberrant behavior raises your concern for possible addiction
- Benefits no longer outweigh risks
  - "I cannot responsibly continue prescribing opioids as I feel it would cause you more harm than good."
- Always offer referral to addiction treatment
- Stay 100% in "Benefit/Risk of Med" mindset

## Stopping Opioid Analgesics

- Patient is not improving and may have opioidresistant pain
- Some patients experience improvement in function and pain control when chronic opioids are stopped
- Patient may have a new problem "opioid dependence (addiction)" and may need substance abuse treatment
- Be clear that you will continue to work on pain management using non-opioid therapy
- Taper patient slowly to prevent opioid withdrawal

## Summary

- The use of opioid analgesic therapy requires careful assessment and tailored monitoring approaches
- Diagnosing addiction during pain management is difficult and requires careful monitoring
- Usual substance abuse risk factors probably apply to prescription opioid abuse
- Manage lack of benefit by tapering opioids
- Manage addiction by tapering opioids and referring to substance abuse treatment