

ER/LA OPIOID REMS:

Achieving Safe Use While Improving Patient Care

Presented by CO*RE
Collaborative for REMS Education
www.core-rem.org



Collaborative for
REMS Education

Faculty Information



John F. Manfredonia, DO, FACOFP, FAAHPM

National Medical Director
Gentiva Hospice Services

DISCLOSURE:

Dr. Manfredonia has nothing to disclose.



Collaborative for REMS Education

On July 9, 2012, the Food and Drug Administration (FDA) approved a Risk Evaluation and Mitigation Strategy (REMS) for extended-release (ER) and long-acting (LA) opioid medications.

Founded in June, 2010, the Collaborative on REMS Education (CO*RE), a multi disciplinary team of 10 partners and 3 cooperating organizations, has designed a core curriculum based on needs assessment, practice gaps, clinical competencies, and learner self-assessment to meet the requirements of the FDA REMS Blueprint.

www.core-remis.org

Acknowledgement

Presented by the American Osteopathic Association, a member of the Collaborative on REMS Education (CO*RE), 10 interdisciplinary organizations working together to improve pain management and prevent adverse outcomes.

This educational activity is supported by an independent educational grant from the ER/LA Opioid Analgesics REMS Program Companies (RPC). Please see www.er-la-opioidREMS.com for a listing of the member companies.

This activity is intended to be fully compliant with the ER/LA Opioid Analgesics REMS education requirements issued by the U.S. Food & Drug Administration.

Products Covered by this REMS

Brand Name Products

- Avinza® morphine sulfate ER capsules
- Butrans® buprenorphine transdermal system
- Dolophine® methadone hydrochloride tablets
- Duragesic® fentanyl transdermal system
- *Embeda® morphine sulfate/naltrexone ER capsules
- Exalgo® hydromorphone hydrochloride ER tablets
- Kadian® morphine sulfate ER capsules
- Methadose™ methadone hydrochloride tablets
- MS Contin® morphine sulfate CR tablets
- Nucynta® ER tapentadol ER tablets
- Opana® ER oxymorphone hydrochloride ER tablets
- OxyContin® oxycodone hydrochloride CR tablets
- †Palladone® hydromorphone hydrochloride ER capsules

* Not currently available due to voluntary recall (still approved);

† No longer marketed (still approved)

Generic Products

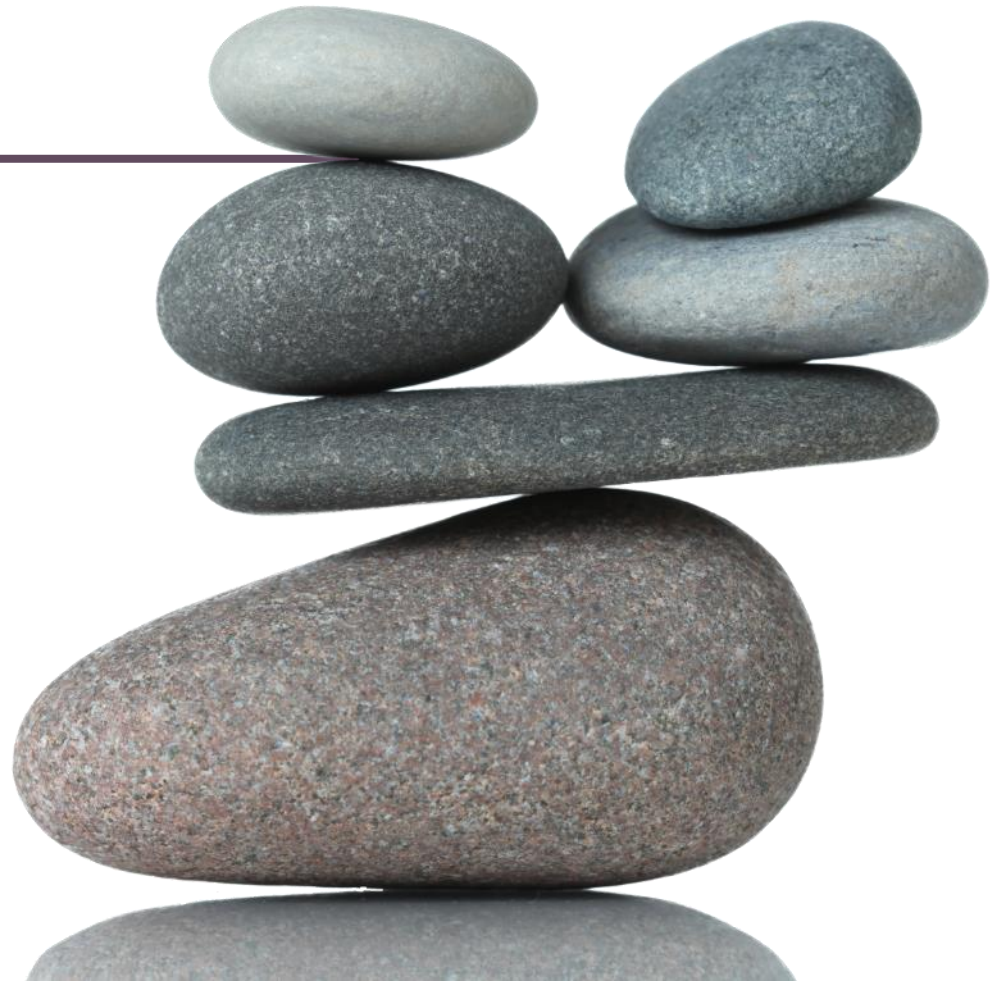
- Fentanyl ER transdermal systems
- Methadone hydrochloride tablets
- Methadone hydrochloride oral concentrate
- Methadone hydrochloride oral solution
- Morphine sulfate ER tablets
- Morphine sulfate ER capsules
- Oxycodone hydrochloride ER tablets

Heads Up: Zohydro

- Not yet officially included in FDA Blue Print
- Release approved by FDA in Fall, 2013
- Release set for March, 2014 though many seek to block its release
- Concerns revolve around
 - Potential misuse as Zohydro contains five times the amount of hydrocodone found in IR
 - Zohydro does not have built in abuse deterrence mechanism
- Stay tuned.

WHY PRESCRIBER EDUCATION IS IMPORTANT

Introduction



Prescribers of ER/LA Opioids Should Balance:

*The benefits
of prescribing
ER/LA opioids
to treat pain*



*The risks
of serious
adverse
outcomes*

Opioid Misuse/Abuse is a Major Public Health Problem

Improper use of any opioid can result in serious AEs including overdose & death

This risk can be greater w/ ER/LA opioids

ER opioid dosage units contain more opioid than IR formulations

Methadone is a potent opioid with a long, highly variable half-life

In 2011

34.2 million Americans age ≥12 had used an opioid for nonmedical use some time in their life

In 2010

425,247 ED visits involved nonmedical use of opioids

- Methadone involved in 30% of prescription opioid deaths

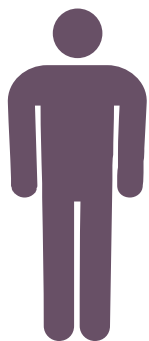
SAMHSA. (2012). *Results from the 2011 National Survey on Drug Use and Health: Summary of National Findings*, NSDUH Series H-44, HHS Publication No. (SMA) 12-4713. Rockville, MD. SAMHSA. (2012). *The DAWN Report: Highlights of the 2010 Drug Abuse Warning Network (DAWN) Findings on Drug-Related Emergency Department Visits*. Rockville, MD. CDC. CDC Vital Signs. *Prescription Painkiller Overdoses. Use and abuse of methadone as a painkiller*. 2012. FDA. *Questions and Answers: FDA approves a Risk Evaluation and Mitigation Strategy for Extended-Release and Long-Acting Opioid Analgesics*. www.fda.gov/Drugs/DrugSafety/InformationbyDrugClass/ucm309742.htm. 2012.

In 2009

39,147 Americans DIED FROM DRUG POISONINGS

Nearly 14,800 Deaths involved prescriptions opioids

For every **1**
death there
are:



10 treatment
admissions for
abuse



32 ED visits
for misuse or
abuse



130
people who
abused or
are addicted

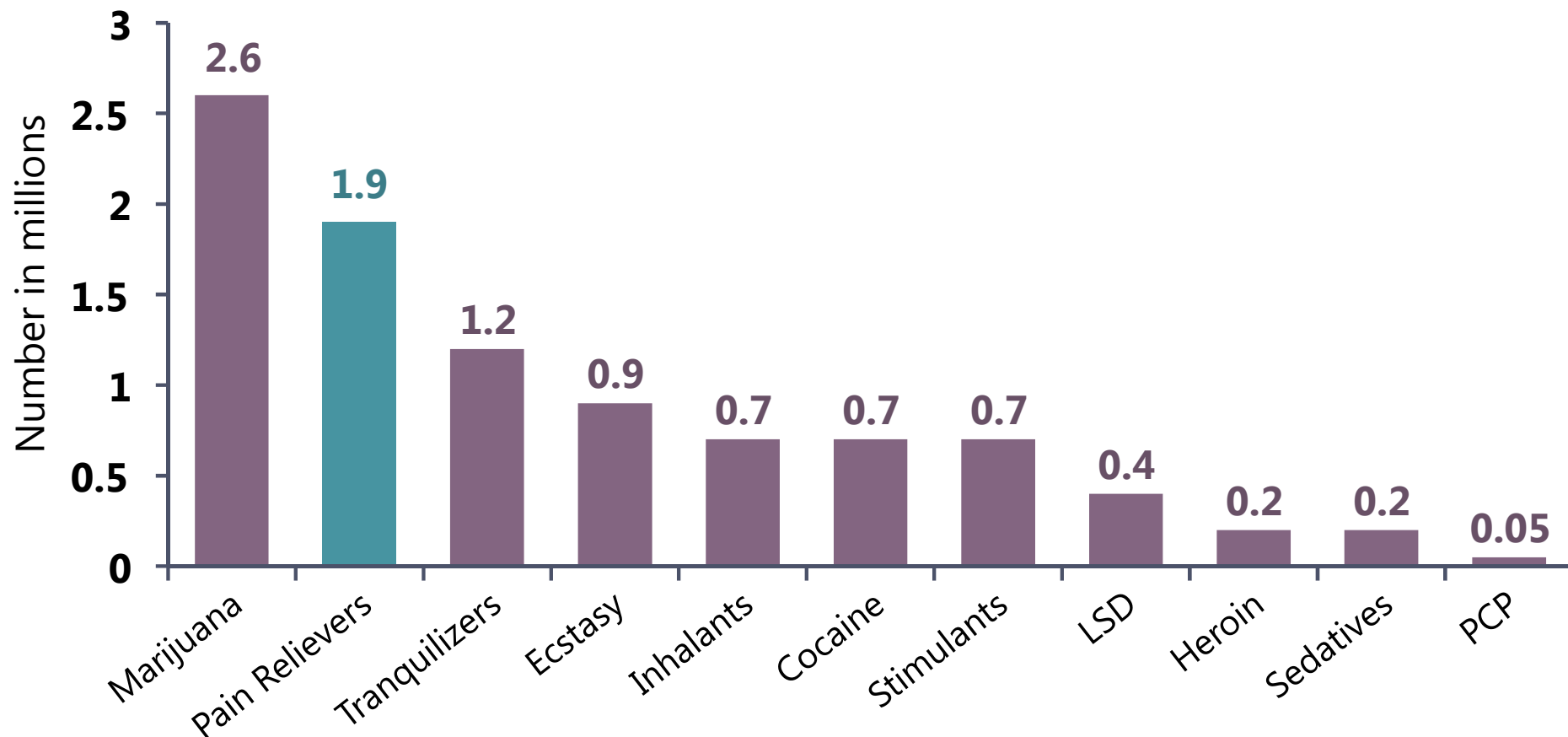


825
Nonmedical
users



Kochanek KD, et al. *National Vital Statistics Report* 2011;60:1-117. CDC Vital Signs. *Prescription Painkiller Overdoses. Use and abuse of methadone as a painkiller.* 2012. Warner M, et al. *Drug poisoning deaths in the United States, 1980-2008.* NCHS data brief, no 81. Hyattsville, MD: National Center for Health Statistics. 2011. National Center for Injury Prevention and Control. Division of Unintentional Injury Prevention. *Policy Impact. Prescription Painkiller Overdoses.* Nov 2011.

First-Time Use of Specific Drugs Among Persons Age ≥ 12 (2011)



SAMHSA. (2012). *Results from the 2011 National Survey on Drug Use and Health: Summary of National Findings*, NSDUH Series H-44, HHS Publication No. (SMA) 12-4713. Rockville, MD.

Learning Objectives



Describe appropriate patient assessment for treatment with ER/LA opioid analgesics, evaluating risks and potential benefits of ER/LA therapy, as well as possible misuse.



Apply proper methods to initiate therapy, modify dose, and discontinue use of ER/LA opioid analgesics, applying best practices including accurate dosing and conversion techniques, as well as appropriate discontinuation strategies.



Demonstrate accurate knowledge about how to manage ongoing therapy with ER/LA opioid analgesics and properly use evidence-based tools while assessing for adverse effects.



Employ methods to counsel patients and caregivers about the safe use of ER/LA opioid analgesics, including proper storage and disposal.



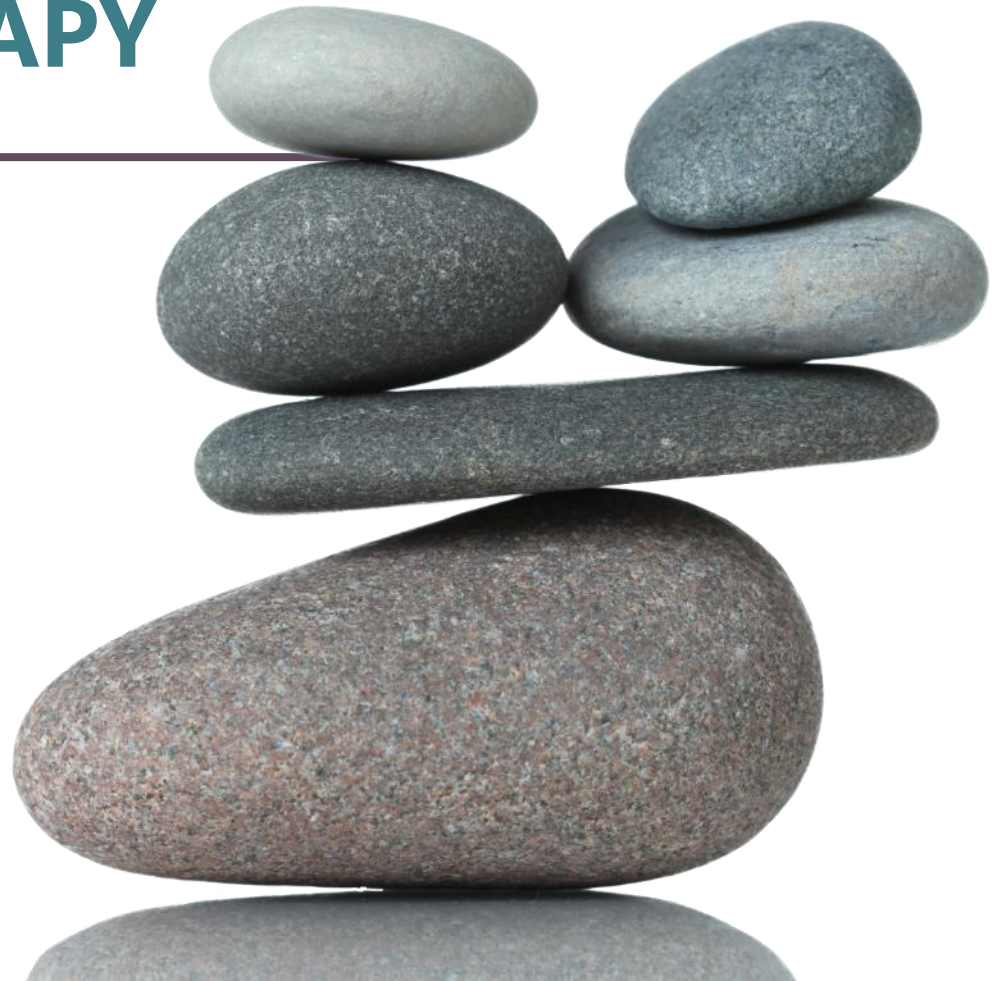
Review/assess general and product-specific drug information concerning ER/LA opioid analgesics and identifying potential adverse effects of ER/LA opioids.

Misuse, abuse, divergence and overdose of ER/LA opioids is a major public health crisis.

YOU and **YOUR TEAM** *can* have an immediate and positive impact on this crisis while also caring for your patients appropriately.

ASSESSING PATIENTS FOR TREATMENT WITH ER/LA OPIOID ANALGESIC THERAPY

Unit 1



Balance Risks Against Potential Benefits

Conduct thorough H&P and appropriate testing

Benefits Include

- Analgesia
(adequate pain control)
- Improved Function



Comprehensive benefit-to-harm evaluation

Risks Include

- Overdose
- Abuse by patient or household contacts
- Misuse & addiction
- Physical dependence & tolerance
- Interactions w/ other medications & substances
- Inadvertent exposure by household contacts, especially children

Adequately **DOCUMENT**
all patient interactions,
assessments, test results,
& treatment plans

Clinical Interview: Patient Medical History

Illness relevant to (1) effects or (2) metabolism of opioids

1. Pulmonary disease, constipation, nausea, cognitive impairment
2. Hepatic, renal disease

Illness possibly linked to substance abuse, e.g.:

Hepatitis

HIV

Tuberculosis

Cellulitis

STIs

Trauma,
burns

Cardiac
disease

Pulmonary
disease

Clinical Interview: Pain & Treatment History

Description of pain



Location



Intensity



Quality



Onset/
Duration



Variations /
Patterns / Rhythms

What relieves the pain?

What causes or increases pain?

Effects of pain on physical, emotional, and psychosocial function

Patient's pain & functional goals

Clinical Interview: Pain & Treatment History, cont'd

Pain Medications



Past use

Current use

- Query state **PDMP** where available to confirm patient report
- Contact past providers & obtain prior medical records
- Conduct **UDT**

Dosage

- For opioids currently prescribed: opioid, dose, regimen, & duration
 - Important to determine if patient is **opioid tolerant**

General effectiveness

Nonpharmacologic strategies & effectiveness

Perform Thorough Evaluation & Assessment of Pain

Seek objective confirmatory data

Components of patient evaluation for pain

Order diagnostic tests (appropriate to complaint)

General: vital signs, appearance, posture, gait, & pain behaviors

Neurologic exam

Musculoskeletal Exam

- Inspection
- Palpation
- Percussion
- Auscultation
- Provocative maneuvers

Cutaneous or trophic findings

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

Chou R, et al. *J Pain*. 2009;10:113-30. SAMHSA. *Managing Chronic Pain in Adults With or in Recovery From Substance Use Disorders*. Treatment Improvement Protocol (TIP) Series 54. HHS Publication No. (SMA) 12-4671. 2011. Department of Veterans Affairs, Department of Defense. *VA/DoD Clinical Practice Guideline for Management of Opioid Therapy for Chronic Pain*. 2010.

Risk Assessment, cont'd

Be knowledgeable about risk factors for opioid abuse

- Personal or family Hx of alcohol or drug abuse
- Younger age
- Presence of psychiatric conditions

Understand & use addiction or abuse screening tools

- Assess potential risks associated w/ chronic opioid therapy
- Manage patients using ER/LA opioids based on risk assessment

Conduct a UDT

- Understand limitations

Risk Assessment Tools: Examples

Tool	# of items	Administered By
Patients considered for long-term opioid therapy:		
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

Opioid Risk Tool (ORT)

Mark each box that applies

Female

Male

1. Family Hx of substance abuse

Alcohol

☐ 1

☐ 3

Illegal drugs

☐ 2

☐ 3

Prescription drugs

☐ 4

☐ 4

2. Personal Hx of substance abuse

Alcohol

☐ 3

☐ 3

Illegal drugs

☐ 4

☐ 4

Prescription drugs

☐ 5

☐ 5

3. Age between 16 & 45 yrs

☐ 1

☐ 1

4. Hx of preadolescent sexual abuse

☐ 3

☐ 0

5. Psychologic disease

ADD, OCD, bipolar, schizophrenia

☐ 2

☐ 2

Depression

☐ 1

☐ 1

Scoring Totals:

Administer

On initial visit

Prior to opioid
therapy

Scoring (risk)

0-3: low

4-7: moderate

≥8: high

Screeners & Opioid Assessment for Patients with Pain (SOAPP)[®]

Identifies patients as at high, moderate, or low risk for misuse of opioids prescribed for chronic pain

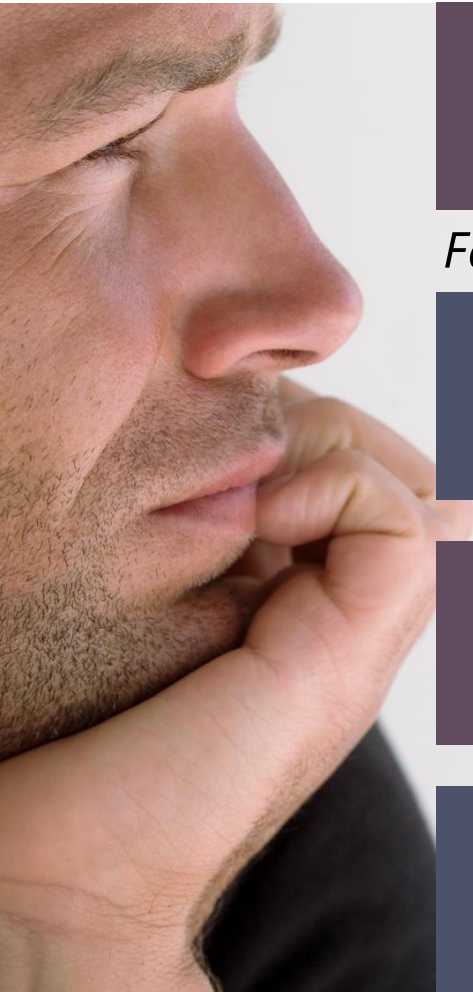
How is SOAPP[®] administered?

Usually self-administered in waiting room, exam room, or prior to an office visit

May be completed as part of an interview w/ a nurse, physician, or psychologist

Prescribers should have a completed & scored SOAPP[®] while making opioid treatment decisions

When to Consider a Trial of an Opioid



Potential benefits are likely to outweigh risks

Failed to adequately respond to nonopioid & nondrug interventions

Continuous, around-the-clock opioid analgesic is needed for an extended period of time

Pain is chronic and severe

No alternative therapy is likely to pose as favorable a balance of benefits to harms

Chou R, et al. *J Pain*. 2009;10:113-30. Department of Veterans Affairs, Department of Defense.
VA/DoD Clinical Practice Guideline for Management of Opioid Therapy for Chronic Pain. 2010.

When to Consider a Trial of an Opioid, cont'd



60-yr-old w/ chronic disabling OA pain

- Nonopioid therapies not effective, IR opioids provided some relief but experienced end-of-dose failure
- No psychiatric/medical comorbidity or personal/family drug abuse Hx
 - High potential benefits relative to potential risks
 - Could prescribe opioids to this patient in most settings w/ routine monitoring

30-yr-old w/ fibromyalgia & recent IV drug abuse

- High potential risks relative to benefits (opioid therapy not 1st line for fibromyalgia)
- Requires intensive structure, monitoring, & management by clinician w/ expertise in both addiction & pain
 - Not a good candidate for opioid therapy



When to Consider a Trial of an Opioid, cont'd

Selection of patients between these 2 extremes requires:

**Careful
assessment &
characterization
of patient risk**



**Structuring of care
to match risk**

In patients w/ Hx of substance abuse or a psychiatric comorbidity, this may require assistance from experts in managing pain, addiction, or other mental health concerns

In some cases opioids may not be appropriate or should be deferred until the comorbidity has been adequately addressed

– Consider referral

Referring High-Risk Patients

Prescribers should

Understand when to appropriately refer high-risk patients to pain management or addiction specialists

Also check your state regulations for requirements

Special Considerations: Elderly Patients



Does patient have medical problems that increase risk of opioid-related AEs?


Respiratory depression more likely in elderly, cachectic, or debilitated patients

- Altered PK due to poor fat stores, muscle wasting, or altered clearance
- Monitor closely, particularly when
 - Initiating & titrating ER/LA opioids
 - Given concomitantly w/ other drugs that depress respiration
- Reduce starting dose to 1/3 to 1/2 the usual dosage in debilitated, non-opioid-tolerant patients
- Titrate dose cautiously

Older adults more likely to develop constipation

- Routinely initiate a bowel regimen before it develops

Is patient/caregiver likely to manage opioid therapy responsibly?



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

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

Berde CB, et al. *Pediatrics*. 2012;129:354-64. Gregoire MC, et al. *Pain Res Manag* 2013;18:47-50.
Mc Donnell C. *Pain Res Manag*. 2011;16:93-8. Slater ME, et al. *Pain Med*. 2010;11:207-14.

Challenge: The Friday Afternoon Patient

Red Flag:

Adjusting a prescription without performing appropriate evaluation or screening

It is 4 pm on Friday and you are four patients behind schedule. Mr. Kingston asks you to increase his current dosage of hydrocodone, because he says it is not relieving his pain. It would take you two minutes to say yes.

Action: Check your local PDMP. Employ practice management strategies that maximize efficiency.

- Patient-administered screening tools
- Office staff to administer and score tools, document results, and communicate to the prescriber

Challenge: The Delayed Surgery

Red Flag:

Patient may be stalling to continue an opioid regimen

Ms. Van Buskirk says she needs opioids to manage her pain until she can have surgery. She reports continued delays in getting to surgery. You phone the surgeon and discover that no date has been set and that she has cancelled several appointments.

Action: Set expectations for time limitations. Offer non-medicine and non-opioid options for pain management. Consider referral to addiction specialist.

Gourlay, Heit, & Amahregi, 2005; Stanos, 2012

Pearls for Practice



Document EVERYTHING

Conduct a Comprehensive H&P

General and pain-specific

Assess Risk of Abuse

Compare Risks with Expected Benefits

Determine Whether a Therapeutic Trial is Appropriate

INITIATING THERAPY, MODIFYING DOSING, & DISCONTINUING USE OF ER/LA OPIOID ANALGESICS

Unit II



Federal & State Regulations

Comply w/ federal & state laws & regulations that govern the use of opioid therapy for pain



Federal

- Code of Federal Regulations, Title 21 Section 1306: rules governing the issuance & filling of prescriptions pursuant to section 309 of the Act (21 USC 829)
 - www.deadiversion.usdoj.gov/21cfr/cfr/2106cfrt.htm
- United States Code (USC) - Controlled Substances Act, Title 21, Section 829: prescriptions
 - www.deadiversion.usdoj.gov/21cfr/21usc/829.htm



State

- Database of state statutes, regulations, & policies for pain management
 - www.medscape.com/resource/pain/opioid-policies
 - www.painpolicy.wisc.edu/database-statutes-regulations-other-policies-pain-management

Initiating Treatment

Prescribers should regard initial treatment as a therapeutic trial

May last from several weeks
to several months

Decision to proceed w/ long-term treatment should be intentional & based on careful consideration of outcomes during the trial

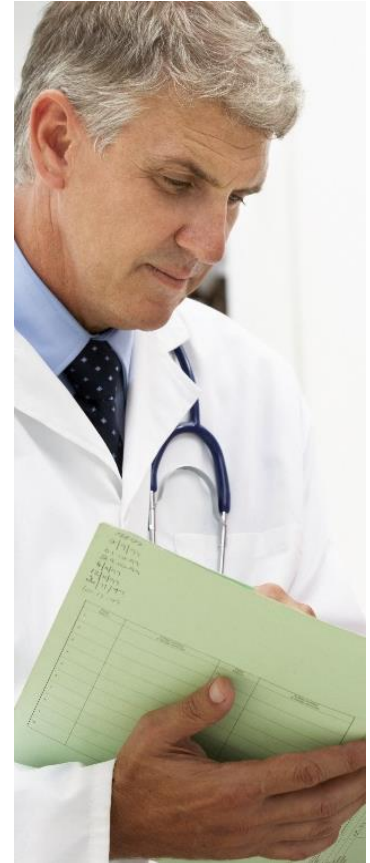
Progress toward meeting
therapeutic goals

Presence of opioid-
related AEs

Changes in underlying
pain condition

Changes in psychiatric or
medical comorbidities

Identification of aberrant drug-related
behavior, addiction, or diversion



ER/LA Opioid-Induced Respiratory Depression

Chief hazard of opioid agonists, including ER/LA opioids

- If not immediately recognized & treated, may lead to respiratory arrest & death
- Greatest risk: initiation of therapy or after dose increase

Manifested by reduced urge to breathe & decreased respiration rate

- Shallow breathing
- CO₂ retention can exacerbate opioid sedating effects

Instruct patients/family members to call 911*

- Managed w/ close observation, supportive measures, & opioid antagonists, depending on patient's clinical status

Chou R, et al. *J Pain*. 2009;10:113-30. FDA. *Blueprint for Prescriber Education for Extended-Release and Long-Acting Opioid Analgesics*. 8-28-2012.
www.fda.gov/downloads/Drugs/DrugSafety/PostmarketDrugSafety/InformationforPatientsandProviders/UCM311290.pdf

ER/LA Opioid-Induced Respiratory Depression

More likely to occur

- In elderly, cachectic, or debilitated patients
 - **Contraindicated** in patients w/ respiratory depression or conditions that increase risk
- If given concomitantly w/ other drugs that depress respiration

Reduce risk

- Proper dosing & titration are essential
- **Do not overestimate** dose when converting dosage from another opioid product
 - Can result in fatal overdose w/ first dose
- Instruct patients to swallow tablets/capsules whole
 - Dose from cut, crushed, dissolved, or chewed tablets/capsules may be fatal, particularly in opioid-naïve individuals

Initiating & Titrating: Opioid-Naïve Patients

Drug & 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 PI)

Monitor patients closely for respiratory depression

Especially within 24-72 h of initiating therapy & increasing dosage

Individualize dosage by titration based on efficacy, tolerability, & presence of AEs

Check ER/LA opioid product PI for minimum titration intervals

Supplement w/ IR analgesics (opioids & nonopioid) if pain is not controlled during titration

Initiating: Opioid-Tolerant Patients

***If opioid tolerant –
no restrictions on which products can be used***

Patients considered opioid tolerant are taking at least

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

Still requires caution when rotating a patient on an IR opioid to a different ER/LA opioid



**For 1 Wk
Or Longer**

IMPORTANT

Opioid Rotation



Definition:

Change from an existing opioid regimen to another opioid w/ the goal of improving therapeutic outcomes or to avoid AEs attributed to the existing drug, e.g., myoclonus

Rationale:

Differences in pharmacologic or other effects make it likely that a switch will improve outcomes

- Effectiveness & AEs of different mu opioids vary among patients
- Patients show incomplete cross-tolerance to new opioid
 - Patient tolerant to 1st opioid can have improved analgesia from 2nd opioid at a dose lower than calculated from an EDT

Equianalgesic Doses

Opioid rotation requires calculation of an approximate equianalgesic dose

Equianalgesic dose is a construct derived from relative opioid potency estimates

- Potency refers to dose required to produce a given effect

Relative potency estimates

- Ratio of doses necessary to obtain roughly equivalent effects
- Calculate across drugs or routes of administration
- Relative analgesic potency is converted into an equianalgesic dose by applying the dose ratio to a standard

Equianalgesic Dose Tables (EDT)

Many different versions:

Published

Online

Online Interactive

Smart-phone 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

Example of an EDT for Adults



Drug	Equianalgesic Dose		Usual Starting Doses	
	SC/IV	PO	Parenteral	PO
Morphine	10 mg	30 mg	2.5-5 mg SC/IV q3-4hr (♦ 1.25 – 2.5mg)	5-15 mg q3-4hr (IR or oral solution) (♦ 2.5-7.5 mg)
Oxycodone	NA	20 mg	NA	5-10 mg q3-4 (♦ 2.5 mg)
Hydrocodone	NA	30 mg	NA	5 mg q3-4h (♦ 2.5 mg)
Hydromorphone	1.5 mg	7.5 mg	0.2-0.6 mg SC/IV q2-3hr (♦ 0.2mg)	1-2 mg q3-4hr (♦ 0.5-1 mg)

Limitations of EDTs

Single-dose potency studies using a specific route, conducted in patients w/ limited opioid exposure



Did Not Consider

Chronic dosing

High opioid doses

Other routes

Different pain types

Comorbidities or organ dysfunction

Gender, ethnicity, advanced age, or concomitant medications

Direction of switch from 1 opioid to another

Inter-patient variability in pharmacologic response to opioids

Incomplete cross-tolerance among mu opioids

Utilizing Equianalgesic Doses

Incomplete cross-tolerance & inter-patient variability require use of conservative dosing when converting from one opioid to another

Equianalgesic dose a starting point for opioid rotation

Intended as General Guide

Calculated dose of new drug based on EDT must be reduced, then titrate the new opioid as needed

Closely follow patients during periods of dose adjustments

Follow conversion instructions in individual ER/LA opioid PI, when provided

Guidelines for Opioid Rotation



**Calculate
equianalgesic
dose of new
opioid from
EDT**

**Reduce calculated equianalgesic
dose by 25%-50%***

Select % reduction based on clinical judgment

**Closer to 50% reduction if
patient is**

- Receiving a relatively high dose of current opioid regimen
- Elderly or medically frail

**Closer to 25% reduction
if patient**

- Does not have these characteristics
- Is switching to a different administration route of same drug

***75%-90% reduction for methadone**

Guidelines for Opioid Rotation, cont'd



If switching to **methadone**:

- Reduce calculated equianalgesic dose by **75%-90%**
- For patients on very high opioid doses (e.g., $\geq 1,000$ mg morphine equivalents/d), be cautious converting to methadone ≥ 100 mg/d
 - Consider inpatient monitoring, including serial EKG monitoring

If switching to **transdermal**:

- **Fentanyl**, calculate dose conversion based on equianalgesic dose ratios included in the PI
- **Buprenorphine**, follow instructions in the PI

Guidelines for Opioid Rotation,

cont'd



Have a strategy to frequently assess analgesia, AEs and withdrawal symptoms

Titrate new opioid dose to optimize outcomes & safety

Dose for breakthrough pain (BTP) ***using a short-acting, immediate release preparation*** is 5%-15% of total daily opioid dose, administered at an appropriate interval

If oral transmucosal fentanyl product is used for BTP, begin dosing lowest dose irrespective of baseline opioid dose

NEVER use ER/LA opioids for BTP

Breakthrough Pain in Chronic Pain Patients

Patients on stable ATC opioids may experience BTP

Disease progression or a new or unrelated pain

Therapies

- Directed at cause of BTP or precipitating factors
- Nonspecific symptomatic therapies to lessen impact of BTP

Consider adding

- PRN IR opioid trial based on analysis of benefit versus risk
 - Risk for aberrant drug-related behaviors
 - High-risk: only in conjunction w/ frequent monitoring & follow-up
 - Low-risk: w/ routine follow-up & monitoring
- Nonopioid drug therapies
- Nonpharmacologic treatments

Reasons for Discontinuing ER/LA Opioids



No progress toward therapeutic goals

Intolerable & Unmanageable AEs

Pain level decreases in stable patients

Nonadherence or unsafe behavior

- 1 or 2 episodes of increasing dose without prescriber knowledge
- Sharing medications
- Unapproved opioid use to treat another symptom (e.g., insomnia)

Aberrant behaviors suggestive of addiction &/or diversion

- Use of illicit drugs or unprescribed opioids
- Repeatedly obtaining opioids from multiple outside sources
- Prescription forgery
- Multiple episodes of prescription loss

Challenge: The Broken Stereotype

Red Flag:

Making assumptions about a patient's risk factors without objective evidence

Ms. Yeun seems like a “good” patient. She has never abused opioids previously. She has been in the practice a long time, has never been a problem, and in fact, is rather enjoyable. She always brings Christmas cookies for the staff around the holidays.

Action: Require all patients receiving opioids to follow a treatment plan and adhere to defined expectations. Evaluate risk in all patients. Use patient-provider agreements, contracts, or other tools.

Gourlay & Heit, 2005; Stanos, 2012

Challenge: The Early Refill

Optional Slide

Red Flag:

Patient requests an early refill every month.

You have prescribed Mr. Arias a long-acting opioid for low back pain and a short-acting PRN opioid for breakthrough pain. Every month he requests a refill for both prescriptions 3-8 days early. Upon questioning, Mr. Arias tells you that he takes both pills whenever he feels he needs them.

Action: Make sure that patients understand each medication's dosage, time of day, and maximum daily dose. Ask them to repeat these instructions back to you. Avoid clinical terms such as "PRN" that the patient may not understand.

Pearls for Practice



Treat Initiation of Opioids as a Therapeutic Trial

Anticipate ER/LA Opioid-Induced Respiratory Depression

It can be immediately life-threatening

Be Conservative and Thoughtful In Dosing

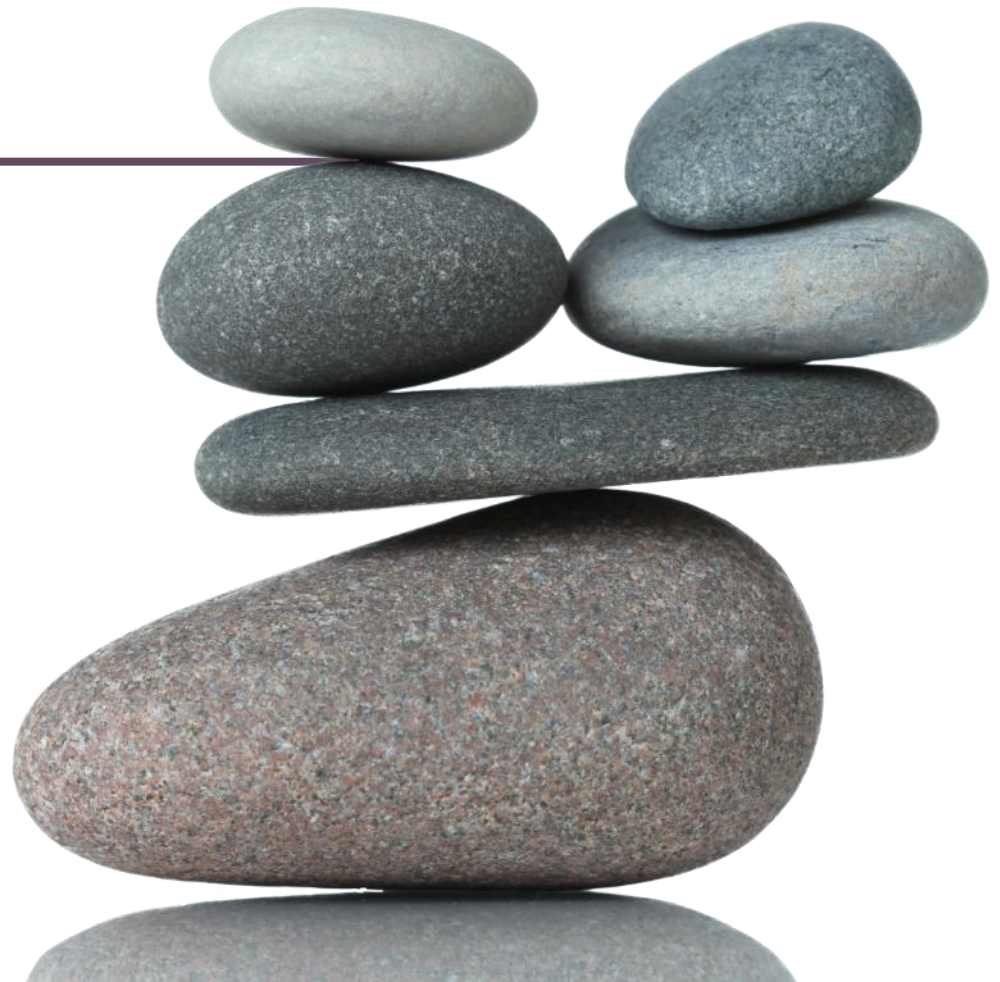
When initiating, titrating, and rotating opioids

First calculate equianalgesic dose, then reduce dose appropriately

Discontinue ER/LA opioids slowly and safely

MANAGING THERAPY WITH ER/LA OPIOID ANALGESICS

Unit III



Informed Consent

Before initiating a trial of opioid analgesic therapy, confirm patient understanding of informed consent to establish:

Analgesic & functional goals of treatment

Expectations

Potential risks

Alternatives to opioids

The potential for & how to manage:

- Common opioid-related AEs (e.g., constipation, nausea, sedation)
- Other serious risks (e.g., abuse, addiction, respiratory depression, overdose)
- AEs after long-term or high-dose opioid therapy (e.g., hyperalgesia, endocrinologic or sexual dysfunction)

Patient-Prescriber Agreement (PPA)

Document signed by both patient & prescriber at time an opioid is prescribed

Clarify treatment plan & goals of treatment w/ patient, patient's family, & other clinicians involved in patient's care

Assist in patient education

Inform patients about the risks & benefits

Document patient & prescriber responsibilities

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
 - Do not store in medicine cabinet
 - 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

Monitor Patients During Opioid Therapy



Therapeutic risks & benefits do not remain static

Affected by change in underlying pain condition, coexisting disease, or psychologic/ social circumstances

Identify patients

- 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

Periodically assess continued need for opioid analgesic

Re-evaluate underlying medical condition if clinical presentation changes

Monitor Patients During Opioid Therapy, cont'd



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

Anticipate & Treat Common AEs

Constipation

most common AE; does not resolve with time

- Initiate a bowel regimen before constipation develops
- Increase fluid & fiber intake, stool softeners, & laxatives
- Opioid antagonists may help prevent/treat opioid-induced bowel dysfunction

Nausea & vomiting

tend to diminish over days or weeks

Oral & rectal antiemetic therapies as needed

Drowsiness & sedation

tend to wane over time

Counsel patients about driving, work & home safety as well as risks of concomitant exposure to other drugs & substances w/ sedating effects

Pruritus & myoclonus

tend to diminish over days or weeks

Treatment strategies for either condition largely anecdotal

Monitor Adherence and Aberrant Behavior



Routinely monitor patient adherence to treatment plan

- Recognize & document aberrant drug-related behavior
 - In addition to patient self-report also use:
 - State PDMPs, where available
 - UDT
 - Positive for nonprescribed drugs
 - Positive for illicit substance
 - Negative for prescribed opioid
- Family member or caregiver interviews
- Monitoring tools such as the COMM, PADT, PMQ, or PDUQ
- Medication reconciliation (e.g., pill counts)

PADT=Pain Assessment & Documentation Tool

Address Aberrant Drug-Related Behavior

Behavior outside the boundaries of agreed-on treatment plan:

Behaviors that are **less** indicative of aberrancy

Unsanctioned dose escalations or other noncompliance w/ therapy on 1 or 2 occasions

Unapproved use of the drug to treat another symptom

Openly acquiring similar drugs from other medical sources

Behaviors that are **more** indicative of aberrancy

Multiple dose escalations or other noncompliance w/ therapy despite warnings

Prescription forgery

Obtaining prescription drugs from nonmedical sources

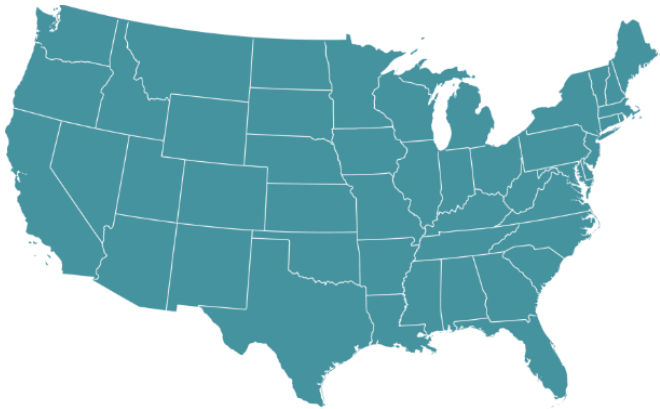
Prescription Drug Monitoring Programs (PDMPs)

49 states & 1 territory have legislation authorizing a PDMP

43 states have an operational PDMP

Individual state laws determine

- Who has access to PDMP information
- Which drug schedules are monitored
- Which agency administers the PDMP
- Whether prescribers are required to register w/ the PDMP
- Whether prescribers are required to access PDMP information in certain circumstances
- Whether unsolicited PDMP reports are sent to prescribers



National Alliance For Model State Drug Laws. Status of Prescription Drug Monitoring Programs.
www.namsdl.org/documents/PMPPProgramStatus01022013.pdf Alliance of States with Prescription Monitoring Programs.
www.pmpalliance.org/pdf/pmp_status_map_2012.pdf Alliance of States with Prescription Monitoring Programs. Prescription Monitoring Frequently Asked Questions (FAQ). www.pmpalliance.org/content/prescription-monitoring-frequently-asked-questions-faq

PDMP Benefits



Record of a patient's controlled substance prescriptions

- Some are available online 24/7
- Opportunity to discuss w/ patient

Provide warnings of potential misuse/abuse

- Existing prescriptions not reported by patient
- Multiple prescribers/pharmacies
- Drugs that increase overdose risk when taken together
- Patient pays for drugs of abuse w/ cash



Prescribers can check their own prescribing Hx

Perrone J, et al. *N Engl J Med*. 2012;366:2341-3. Gugelmann HM, et al. *JAMA*. 2011;306:2258-9. Clark T, et al. *Prescription Drug Monitoring Programs: An Assessment of the Evidence for Best Practices*. 2012. The Prescription Drug Monitoring Program Center of Excellence, HellerSchool for Social Policy & Management, Brandeis University. www.pdmpexcellence.org/sites/all/pdfs/Brandeis_PDMP_Report_final.pdf.

PDMP Unsolicited Patient Threshold Reports

Reports automatically generated on patients who cross certain thresholds when filling prescriptions. Available in some states.

E-mailed to prescribers to whom prescriptions were attributed

Prescribers review records to confirm it is your patient & you wrote the prescription(s) attributed to you

If inaccurate, contact PDMP

If you wrote the prescription(s), patient safety may dictate need to discuss the patient w/ other prescribers listed on report

- Decide who will continue to prescribe for the patient & who might address drug abuse concerns.

Rationale for Urine Drug Testing (UDT)

Help to identify drug misuse/addiction

- Prior to starting opioid treatment

Assist in assessing adherence during opioid therapy

- As requirement of therapy w/ an opioid
- Support decision to refer

UDT frequency is based on clinical judgment

Depending on patient's display of aberrant behavior and whether it is sufficient to document adherence to treatment plan

Check state regulations for requirements



Gourlay DL, et al. *Urine Drug Testing in Clinical Practice. The Art & Science of Patient Care*. 2010. Ed 4. SAMHSA. *Clinical Drug Testing in Primary Care*. Technical Assistance Publication (TAP) 32. HHS Publication No.(SMA) 12-4668. Rockville, MD: SAMHSA, 2012. Chou R, et al. *J Pain*. 2009;10:113-30. Gourlay DL, et al. Compliance monitoring in chronic pain management. In: *Bonica's Management of Pain*. 4th ed. Gourlay DL, et al. *Pain Med*. 2009;10 Suppl 2:S115-23.

Main Types of UDT Methods

Initial testing w/ IA drug panels:



- Classify substance as present or absent according to cutoff
- Many do not identify individual drugs within a class
- Subject to cross-reactivity
- Either lab based or at POC

Identify specific drugs &/or metabolites w/ sophisticated lab-based testing; e.g., GC/MS or LC/MS*



- Specifically confirm the presence of a given drug
 - e.g., morphine is the opiate causing a positive IA*
- Identify drugs not included in IA tests
- When results are contested

* GC/MS=gas chromatography/ mass spectrometry
IA=immunoassay
LC/MS=liquid chromatography/ mass spectrometry



Detecting Opioids by UDT

Most common opiate IA drug panels

- Detect “opiates” morphine & codeine, but doesn’t distinguish
- Do not reliably detect semisynthetic opioids
 - Specific IA panels can be ordered for some
- Do not detect synthetic opioids (e.g., methadone, fentanyl)
 - Only a specifically directed IA panel will detect synthetics

GC/MS or LC/MS will identify specific opioids

- Confirm presence of a drug causing a positive IA
- Identify opioids not included in IA drug panels, including semisynthetic & synthetic opioids
- Identify opioids not included in IA drug panels, including semisynthetic & synthetic opioids

Interpretation of UDT Results

Positive Result



Demonstrates recent use

- Most drugs in urine have detection times of 1-3 d
- Chronic use of lipid-soluble drugs: test positive for ≥ 1 wk

Does not diagnose

- Drug addiction, physical dependence, or impairment

Does not provide enough information to determine

- Exposure time, dose, or frequency of use

Negative Result



Does not diagnose diversion

- More complex than presence or absence of a drug in urine

May be due to maladaptive drug-taking behavior

- Bingeing, running out early
- Other factors: eg, cessation of insurance, financial difficulties

Interpretation of UDT Results, cont'd



Be aware

Testing technologies & methodologies evolve

Differences exist between IA test menu panels vary

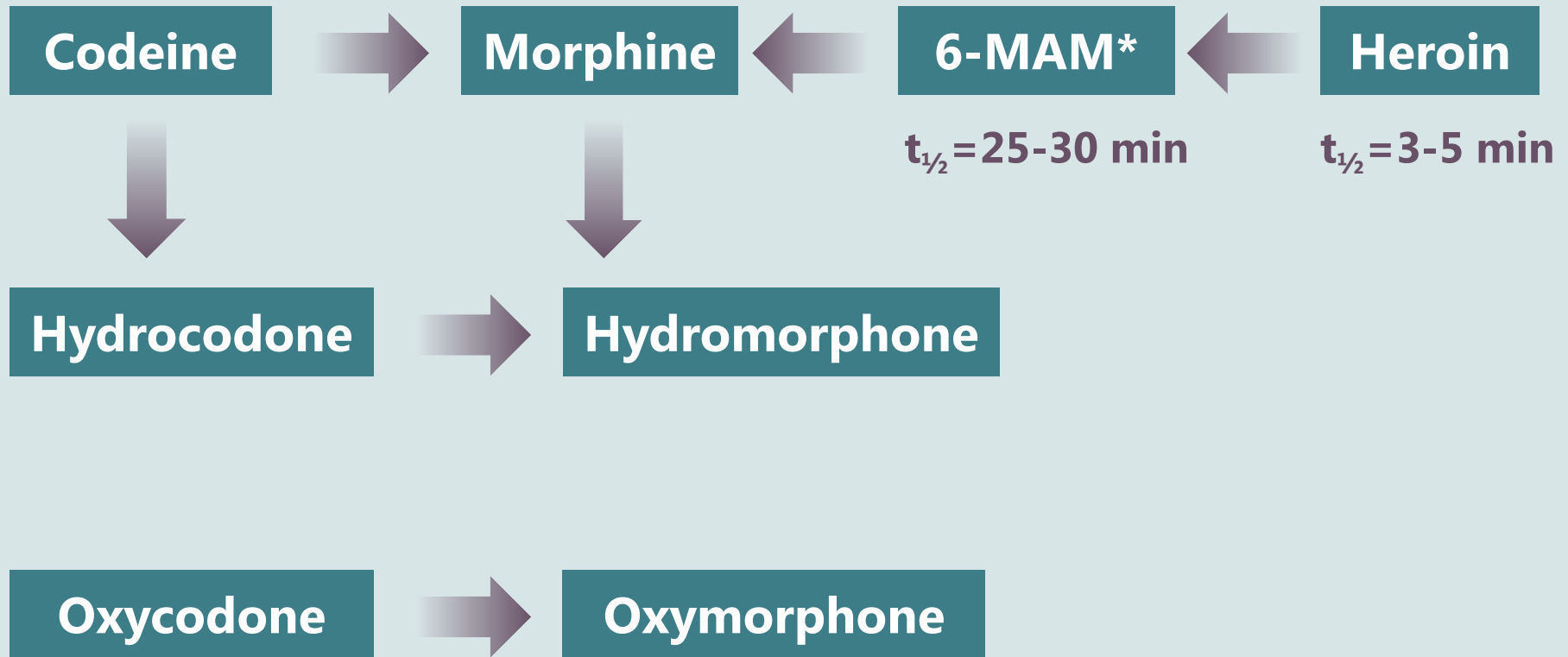
- Cross-reactivity patterns
 - Maintain list of all patient's prescribed & OTC drugs
 - Assist to identify false-positive result
- Cutoff levels

Time taken to eliminate drugs

- Document time of last use & quantity of drug(s) taken

Opioid metabolism may explain presence of apparently unprescribed drugs

Examples of Metabolism of Opioids



*6-MAM=6-monoacetylmorphine

Interpretation of UDT Results



Use UDT results in conjunction w/ other clinical information

Investigate unexpected results

Discuss w/ the lab

Schedule appointment
w/ patient to discuss
unexpected/abnormal results

Chart results, interpretation, & action

Do not ignore the *unexpected* positive result

May necessitate closer monitoring
&/or referral to a specialist



Be Ready to Refer

Be familiar w/ referral sources for abuse or addiction that may arise from use of ER/LA opioids

SAMHSA substance abuse treatment facility locator

<http://findtreatment.samhsa.gov/TreatmentLocator/faces/quickSearch.jspx>

SAMHSA mental health treatment facility locator

<http://findtreatment.samhsa.gov/MHTreatmentLocator/faces/quickSearch.jspx>

Challenge: The Insistent Patient

Red Flag:

Patient refuses to consider non-opioid treatment options

Mr. Lee's daily function has improved significantly over the past two years. You suggest titrating his dosage down or trying alternative pain management options. He is extremely resistant and tells you "Nothing else relieves my pain."

Action: Work with your patient to set treatment goals and expectations. Select and document a therapy plan or use a patient-provider agreement. Evaluate Mr. Lee for potential addiction; consider referral to psychiatry or addiction medicine.

Pearls for Practice



Anticipate and Treat Common Adverse Effects

Use Informed Consent and Patient Provider Agreements

Use UDT and PDMP as Valuable Sources of Data About your Patient

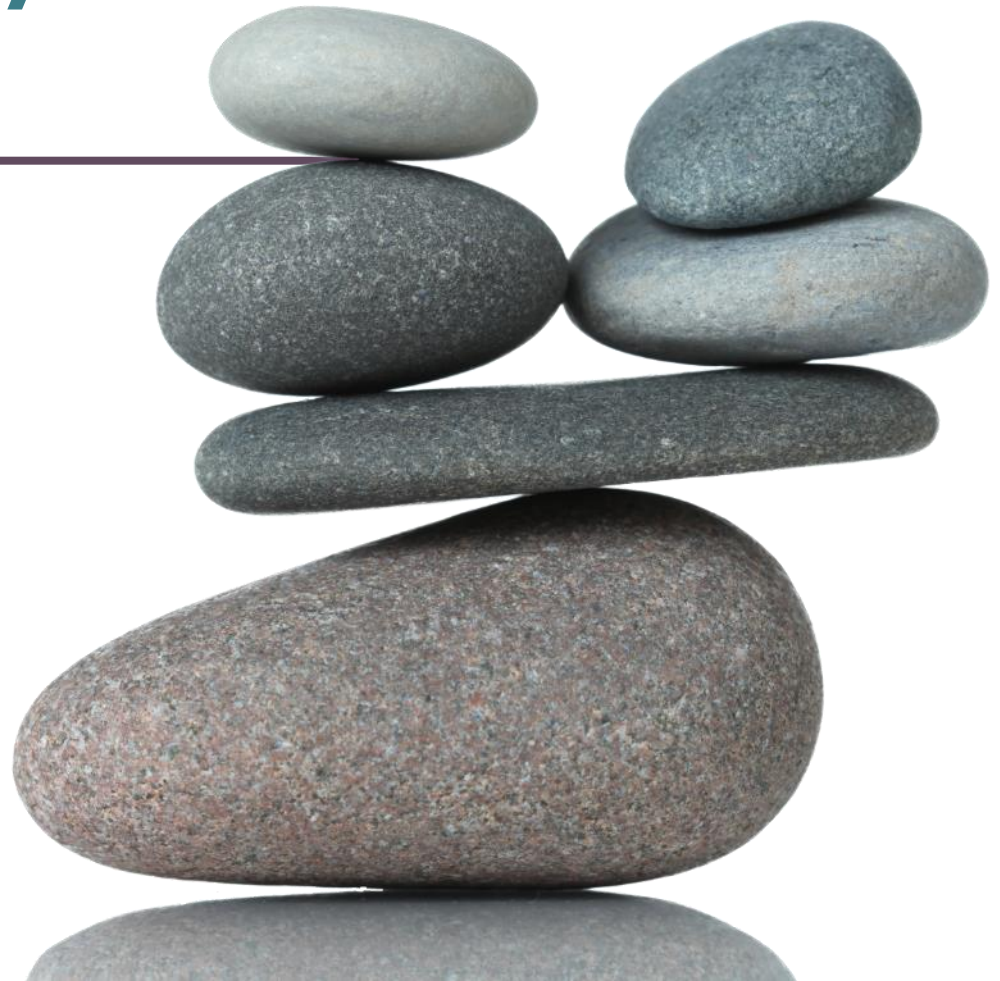
However, know their limitations

Monitor Patient Adherence, Side Effects, Aberrant Behaviors, and Clinical Outcomes

Refer Appropriately if Necessary

COUNSELING PATIENTS & CAREGIVERS ABOUT THE SAFE USE OF ER/LA OPIOID ANALGESICS

Unit IV



Use Patient Counseling Document to help counsel patients

Download:

[www.er-la-
opioidrems.com/IwgUI/rems/pdf/patient_coun-
seling_document.pdf](http://www.er-la-
opioidrems.com/IwgUI/rems/pdf/patient_coun-
seling_document.pdf)

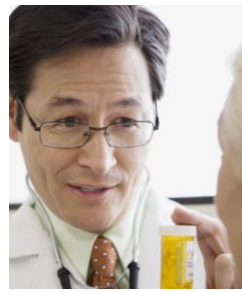
Order hard copies:

www.minneapolis.cenveo.com/pcd/SubmitOrders.aspx

<p align="center">Patient Counseling Document on Extended-Release / Long-Acting Opioid Analgesics</p>	
<p>Patient Name:</p>	
<p align="center">The DOs and DON'Ts of Extended-Release / Long - Acting Opioid Analgesics</p>	
<p><u>DO:</u></p> <ul style="list-style-type: none"> • Read the Medication Guide • Take your medicine exactly as prescribed • Store your medicine away from children and in a safe place • Flush unused medicine down the toilet • Call your healthcare provider for medical advice about side effects. You may report side effects to FDA at 1-800-FDA-1088. 	
<p><u>Call 911 or your local emergency service right away if:</u></p> <ul style="list-style-type: none"> • You take too much medicine • You have trouble breathing, or shortness of breath • A child has taken this medicine 	
<p><u>Talk to your healthcare provider:</u></p> <ul style="list-style-type: none"> • If the dose you are taking does not control your pain • About any side effects you may be having • About all the medicines you take, including over-the-counter medicines, vitamins, and dietary supplements 	
<p><u>DON'T:</u></p> <ul style="list-style-type: none"> • Do not give your medicine to others • Do not take medicine unless it was prescribed for you • Do not stop taking your medicine without talking to your healthcare provider • Do not break, chew, crush, dissolve, or inject your medicine. If you cannot swallow your medicine whole, talk to your healthcare provider. • Do not drink alcohol while taking this medicine 	
<p align="center">For additional information on your medicine go to: dailymed.nlm.nih.gov</p>	

Patient Counseling Document on Extended-Release / Long-Acting Opioid Analgesics
Patient Name:
Patient Specific Information
Take this card with you every time you see your healthcare provider and tell him/her: <ul style="list-style-type: none">• Your complete medical and family history, including any history of substance abuse or mental illness• The cause, severity, and nature of your pain• Your treatment goals• All the medicines you take, including over-the-counter (non-prescription) medicines, vitamins, and dietary supplements• Any side effects you may be having Take your opioid pain medicine exactly as prescribed by your healthcare provider.

Counsel Patients About Proper Use



Explain

- Product-specific information about the prescribed ER/LA opioid
- How to take the ER/LA opioid as prescribed
- Importance of adherence to dosing regimen, handling missed doses, & contacting their prescriber if pain cannot be controlled

Instruct patients/ caregivers to

- Read the ER/LA opioid **Medication Guide** received from pharmacy **every time** an ER/LA opioid is dispensed
- At every medical appointment explain all medications they take

Counsel Patients About Proper Use, cont'd

Counsel patients/caregivers:

- On the most common AEs of ER/LA opioids
- About the risk of falls, working w/ heavy machinery, & driving
- Call the prescriber for advice about managing AEs
- Inform the prescriber about AEs



Prescribers should report serious AEs to the FDA:
[www.fda.gov/downloads/Safety/MedWatch/
HowToReport/DownloadForms/UCM082725.pdf](http://www.fda.gov/downloads/Safety/MedWatch/HowToReport/DownloadForms/UCM082725.pdf)
or **1-800-FDA-1088**

Warn Patients



Never break, chew, or crush an oral ER/LA tablet/capsule, or cut or tear patches prior to use



- May lead to rapid release of ER/LA opioid causing overdose & death
- When a patient cannot swallow a capsule whole, prescribers should refer to PI to determine if appropriate to sprinkle contents on applesauce or administer via feeding tube



Use of CNS depressants or alcohol w/ ER/LA opioids can cause overdose & death



- Use with alcohol may result in rapid release & absorption of a potentially fatal opioid dose
- Other depressants include sedative-hypnotics & anxiolytics, illegal drugs



Warn Patients, cont'd

Misuse of ER/LA opioids can lead to death

- Take **exactly** as directed
- Counsel patients/caregivers on risk factors, signs, & symptoms of overdose & opioid-induced respiratory depression, GI obstruction, & allergic reactions
- Call **911** or poison control
1-800-222-1222

Do not abruptly stop or reduce the ER/LA opioid use

- Discuss how to safely taper the dose when discontinuing

Be safe. Be sure. Read the label.

Check your name.

ABC Pharmacy SMITH, JOHN
123 MAIN STREET
SPRINGFIELD, US 01234

Rx. 587123

TAKE 1 TABLET BY MOUTH
EVERY 12 HOURS
OXYCONTIN 10 MG

Qty: 60 TABLETS

Date Filled: 01/12 Discard After: 07/12

CAUTION: FEDERAL LAW PROHIBITS THE TRANSFER OF THIS DRUG TO ANY PERSON OTHER THAN THE PATIENT FOR WHOM IT WAS PRESCRIBED.

Check any warnings.

Check the directions.

TAKE OR USE THIS EXACTLY AS DIRECTED. DO NOT SKIP DOSES OR DISCONTINUE.

POISON Help
1-800-222-1222

Did you take the wrong medicine? Did you take too much? Call your Poison Center. Expert advice is available 24/7.

Protecting the Community



Caution Patients

- **Sharing ER/LA opioids w/ others may cause them to have serious AEs**
 - Including death
- **Selling or giving away ER/LA opioids is against the law**
- **Store medication safely and securely**
- **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.

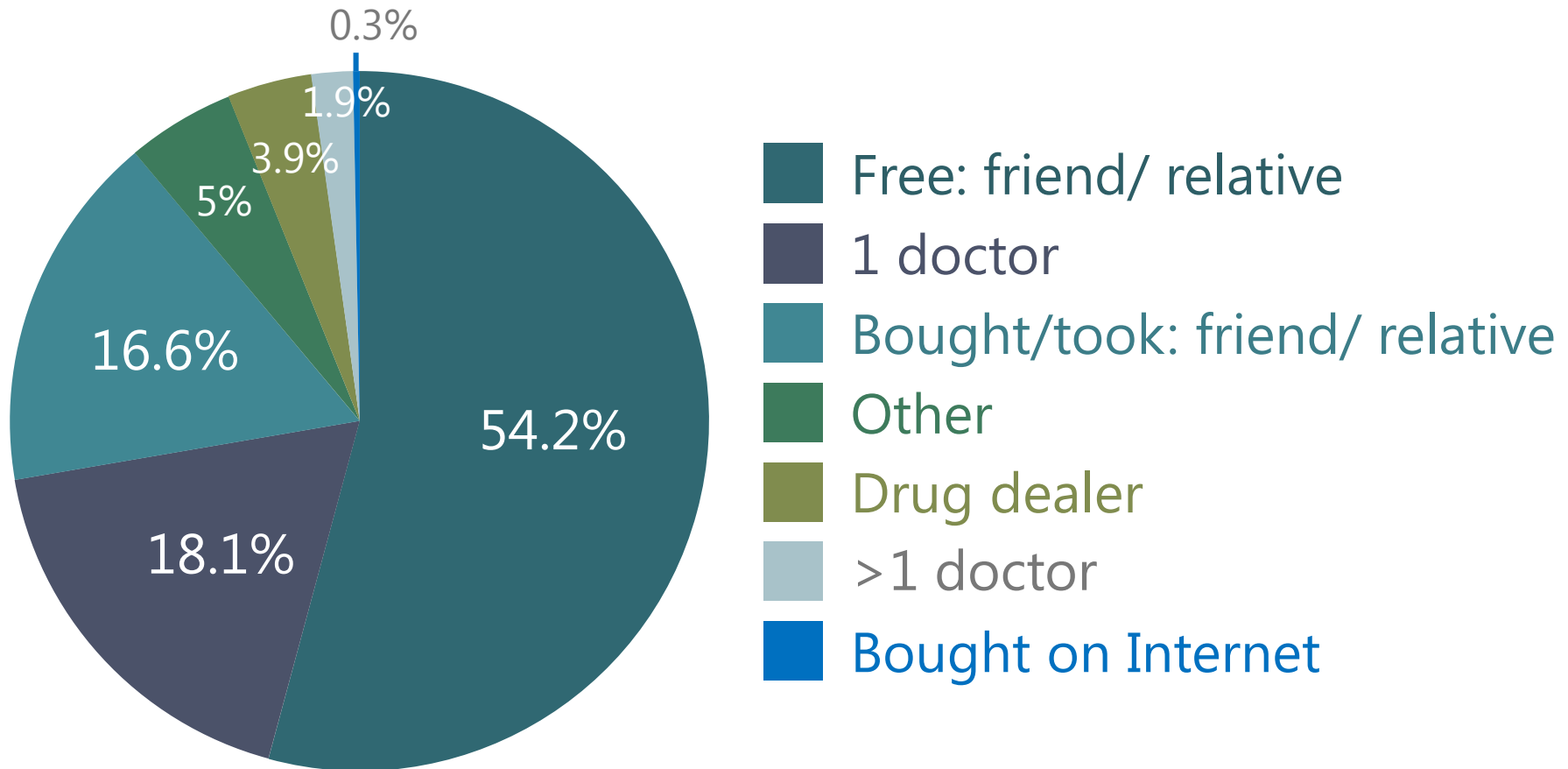


POISON
Help
1-800-222-1222

**You could save
a life.**

1-800-222-1222

Source of Most Recent Rx Opioids Among Past-Year Users



Educate Patients & Families



Rx medicines should only be taken when prescribed to you by a provider

- Taking a pill prescribed for someone else is drug abuse and illegal, “even just once”

Misusing Rx drugs can be as dangerous as illegal “street” drugs

Mixing Rx opioids w/ alcohol or w/ sedatives / hypnotics is potentially fatal

Educate Parents: Not in My House

Step 1: Monitor

- Note how many pills in each prescription bottle or pill packet
- Keep track of refills for all household members
- If your teen has been prescribed a drug, coordinate & monitor dosages & refills
- Make sure friends & relatives—especially grandparents—are aware of the risks
- If your teen visits other households, talk to the families about safeguarding their medications

Educate Parents: Not in My House, cont'd



Step Two: Secure

- Do not store prescription meds in the medicine cabinet
- Keep meds in a safe place (e.g., locked cabinet)
- Tell relatives, especially grandparents, to lock meds or keep in a safe place
- Encourage parents of your teen's friends to secure meds



Step Three: Dispose

- Take inventory of all prescription drugs in your home
- Discard expired or unused meds

ER/LA Opioid Drug Disposal

***National Prescription Drug Take-Back Day:
"Got Drugs?" APRIL 26, 2014***

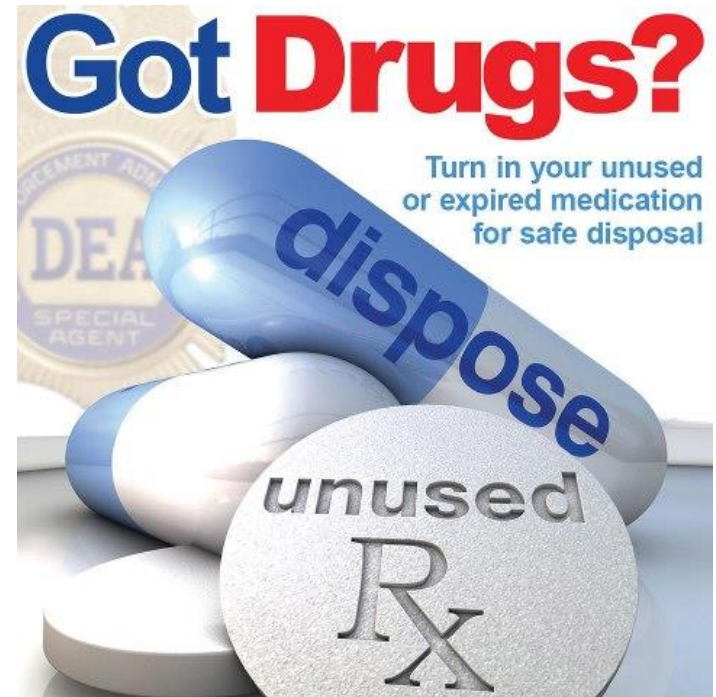
Locations TBA

Check back at

http://www.deadiversion.usdoj.gov/drug_disposal/takeback/index.html

Drug drop boxes in some local police departments, to find a box near you:

- <http://rxdrugdropbox.org/> or
- www.americanmedicinechest.com/ or
- www.takebacknetwork.com/local_efforts.html



Prescription drug disposal when a program or drop box is unavailable:

If take-back program or drop box unavailable, throw out in household trash

- Take drugs out of original containers
- Mix w/ undesirable substance, e.g., used coffee grounds or kitty litter
 - Less appealing to children/pets, & unrecognizable to people who intentionally go through your trash
- Place in sealable bag, can, or other container
 - Prevent leaking or breaking out of garbage bag
- Before throwing out a medicine container
 - Scratch out identifying info on label



Prescription Drug Disposal

**FDA lists especially harmful medicines –
in some cases fatal w/ just 1 dose –
if taken by someone other than the patient**

- Instruct patients to check medication guide



Flush down sink/toilet if no take-back program available

- **As soon as they are no longer needed**
 - So cannot be accidentally taken by children, pets, or others
- **Includes transdermal adhesive skin patches**
 - Used patch worn for 3d still contains enough opioid to harm/kill a child
 - Dispose of used patches immediately after removing from skin
- **Fold patch in half so sticky sides meet, then flush down toilet**
- **Do NOT place used or unneeded patches in household trash**
 - Exception is Butrans: can seal in Patch-Disposal Unit provided & dispose of in the trash

Disposal Updates



In Dec 2012, DEA published a Notice of Proposed Rulemaking for Disposal of Controlled Substances

- The Secure & Responsible Drug Disposal Act of 2010 would expand options to collect controlled substances from ultimate users for disposal to include:
 - Take-back events
 - Mail-back programs
 - Collection receptacle locations

Check back at

www.dea diversion.usdoj.gov/drug_disposal/

Challenge: The Offended Patient

Red Flag:

You decide not to request routine risk assessment for fear of creating conflict

Mrs. Jorgensen has been your patient for eight years and has never caused any problems. When you ask her to undergo urine drug testing, she becomes upset and accuses you of not trusting her.

Action: Describe UDT as a routine part of medication monitoring rather than a “drug test”. Create an office policy for performing UDT on all ER/LA opioid patients. Practice by following universal precautions. Use a patient-provider agreement to clarify expectations of treatment.

Challenge: The Daughter's Party

Red Flag:

Patients do not
safeguard their
opioid
medications
correctly

Your patient's daughter, Jody, stole her father's opioids from his bedside drawer to take to a "fishbowl party". Her best friend consumed a mix of opioids and alcohol and died of an overdose.

Action: Always counsel patients about safe drug storage; warn patients about the serious consequences of theft, misuse, and overdose. Tell your patients that taking another person's medication, even once, is against the law.

Pearls for Practice



Establish Informed Consent

Counsel Patients about Proper Use

Appropriate use of medication

Consequences of inappropriate use

Educate the Whole Team

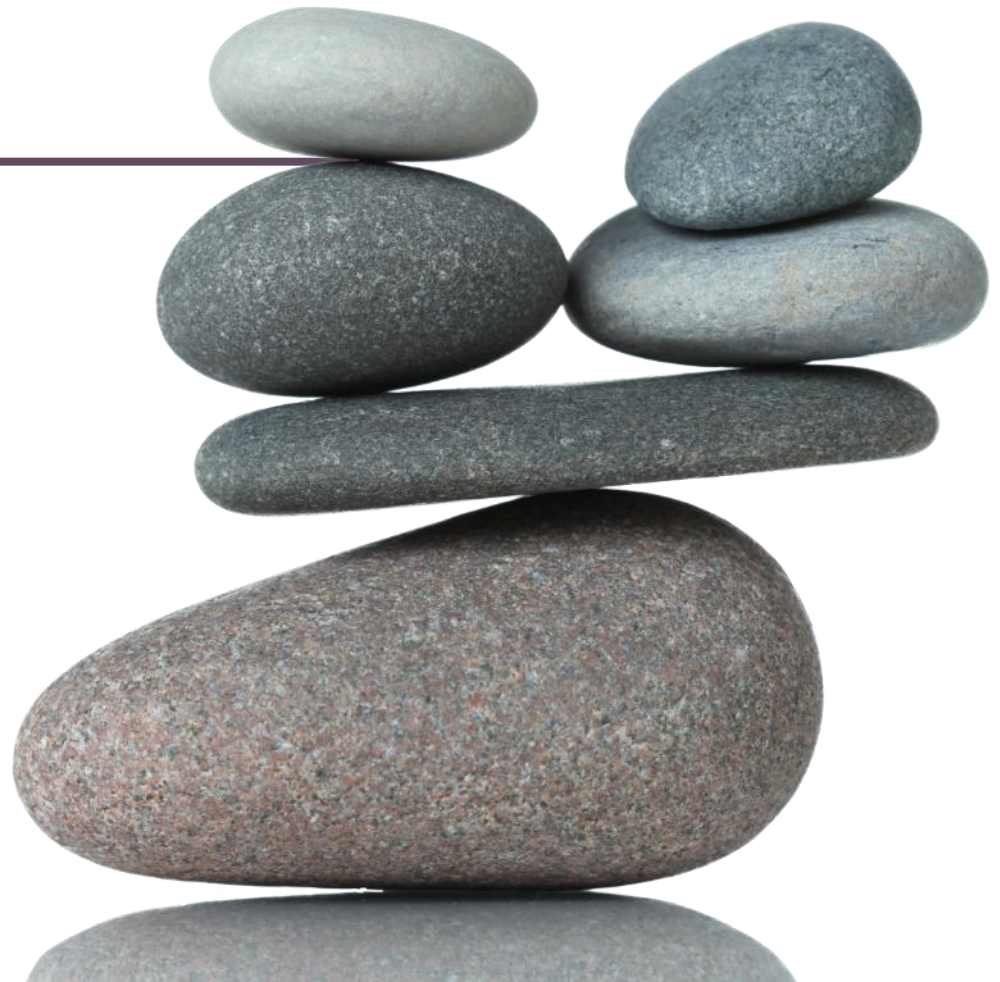
Patients, families, caregivers

Tools and Documents Can Help with Counseling

Use them!

GENERAL DRUG INFORMATION FOR ER/LA OPIOID ANALGESIC PRODUCTS

Unit V



General ER/LA Opioid Drug Information

Prescribers should be knowledgeable about general characteristics, toxicities, & drug interactions for ER/LA opioid products:

ER/LA opioid analgesic products are scheduled under the Controlled Substances Act & can be misused & abused

Respiratory depression is the most serious opioid AE

Can be immediately life-threatening

Constipation is the most common long-term AE

Should be anticipated

For Safer Use: Know Drug Interactions, PK, & PD



CNS depressants can potentiate sedation & respiratory depression

Some ER/LA products rapidly release opioid (dose dump) when exposed to alcohol

Some drug levels may increase without dose dumping

Use w/ MAOIs may increase respiratory depression

Certain opioids w/ MAOIs can cause serotonin syndrome

Can reduce efficacy of diuretics

Inducing release of antidiuretic hormone

Methadone & buprenorphine can prolong QTc interval

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

Opioid Tolerant

Tolerance to sedating & respiratory-depressant effects is critical to safe use of certain ER/LA opioid products, dosage unit strengths, or doses

Patients must be opioid tolerant before using

- Any strength of transdermal fentanyl or hydromorphone ER
- Certain strengths or daily doses of other ER products

Opioid-tolerant patients are those taking at least

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

**FOR 1 WK
OR LONGER**

Key Instructions: ER/LA Opioids



Individually titrate to a dose that provides adequate analgesia & minimizes adverse reactions

Times required to reach steady-state plasma concentrations are product-specific

Refer to product information for titration interval

Continually re-evaluate to assess maintenance of pain control & emergence of AEs

Key Instructions: ER/LA Opioids,



cont'd

During chronic therapy, especially for non-cancer-related pain, periodically reassess the continued need for opioids

If pain increases, attempt to identify source, while adjusting dose

When an ER/LA opioid is no longer required, gradually titrate dose downward to prevent signs & symptoms of withdrawal in physically dependent patients

Do not abruptly discontinue

FDA. *Blueprint for Prescriber Education for Extended-Release and Long-Acting Opioid Analgesics*. 8-28-2012.
www.fda.gov/downloads/Drugs/DrugSafety/PostmarketDrugSafetyInformationforPatientsandProviders/UCM311290.pdf

Common Drug Information for This Class

Limitations of usage

- Not for use as an as-needed analgesic
- Not for mild pain or pain not expected to persist for an extended duration
- Not for use in treating acute pain

Dosage reduction for hepatic or renal impairment

See individual drug PI

Relative potency to oral morphine

- Intended as general guide
- Follow conversion instructions in individual PI
- Incomplete cross-tolerance & inter-patient variability require conservative dosing when converting from 1 opioid to another
 - Halve calculated comparable dose & titrate new opioid as needed

Transdermal Dosage Forms

Do not cut, damage, chew, or swallow



Exertion or exposure to external heat can lead to fatal overdose

Rotate location of application

Prepare skin: clip - not shave - hair & wash area w/ water

Monitor patients w/ fever for signs or symptoms of increased opioid exposure

Metal foil backings are not safe for use in MRIs

FDA. *Blueprint for Prescriber Education for Extended-Release and Long-Acting Opioid Analgesics*. 8-28-2012.

www.fda.gov/downloads/Drugs/DrugSafety/PostmarketDrugSafetyInformationforPatientsandProviders/UCM311290.pdf

The ER/LA Opioid Analgesics Risk Evaluation & Mitigation Strategy. *Selected Important Safety Information. Abuse potential & risk of life-threatening respiratory depression*. www.er-la-opioidrems.com/lwgUI/remss/pdf/important_safety_information.pdf. 2012.

Drug Interactions Common to this Class

Concurrent use w/ other CNS depressants can increase risk of respiratory depression, hypotension, profound sedation, or coma

Reduce initial dose of one or both agents

Avoid using partial agonists & mixed agonist/antagonist analgesics[†] together, may reduce analgesic effect or precipitate withdrawal

May enhance neuromuscular blocking action of skeletal muscle relaxants & increase respiratory depression

Concurrent use w/ anticholinergic medication increases risk of urinary retention & severe constipation

May lead to paralytic ileus

†Buprenorphine, pentazocine, nalbuphine, butorphanol

FDA. *Blueprint for Prescriber Education for Extended-Release and Long-Acting Opioid Analgesics*. 8-28-2012.
www.fda.gov/downloads/Drugs/DrugSafety/PostmarketDrugSafetyInformationforPatientsandProviders/UCM311290.pdf

Drug Information Common to This Class

Use in opioid-tolerant patients

- See individual PI for products which:
 - Have strengths or total daily doses only for use in opioid-tolerant patients
 - Are only for use in opioid-tolerant patients at all strengths

Contraindications

- Significant respiratory depression
- Acute or severe asthma in an unmonitored setting or in absence of resuscitative equipment
- Known or suspected paralytic ileus
- Hypersensitivity (e.g., anaphylaxis)
- See individual PI for additional contraindications

Pearls for Practice



Patients **MUST** be opioid-tolerant in order to safely take most ER/LA opioid products

Be familiar with drug-drug interactions, pharmacokinetics and pharmacodynamics of ER/LA opioids

Central nervous system depressants (alcohol, sedatives, hypnotics, tranquilizers, tricyclic antidepressants) can have a potentiating effect on the sedation and respiratory depression caused by opioids.

Challenge: The Patient in the ER

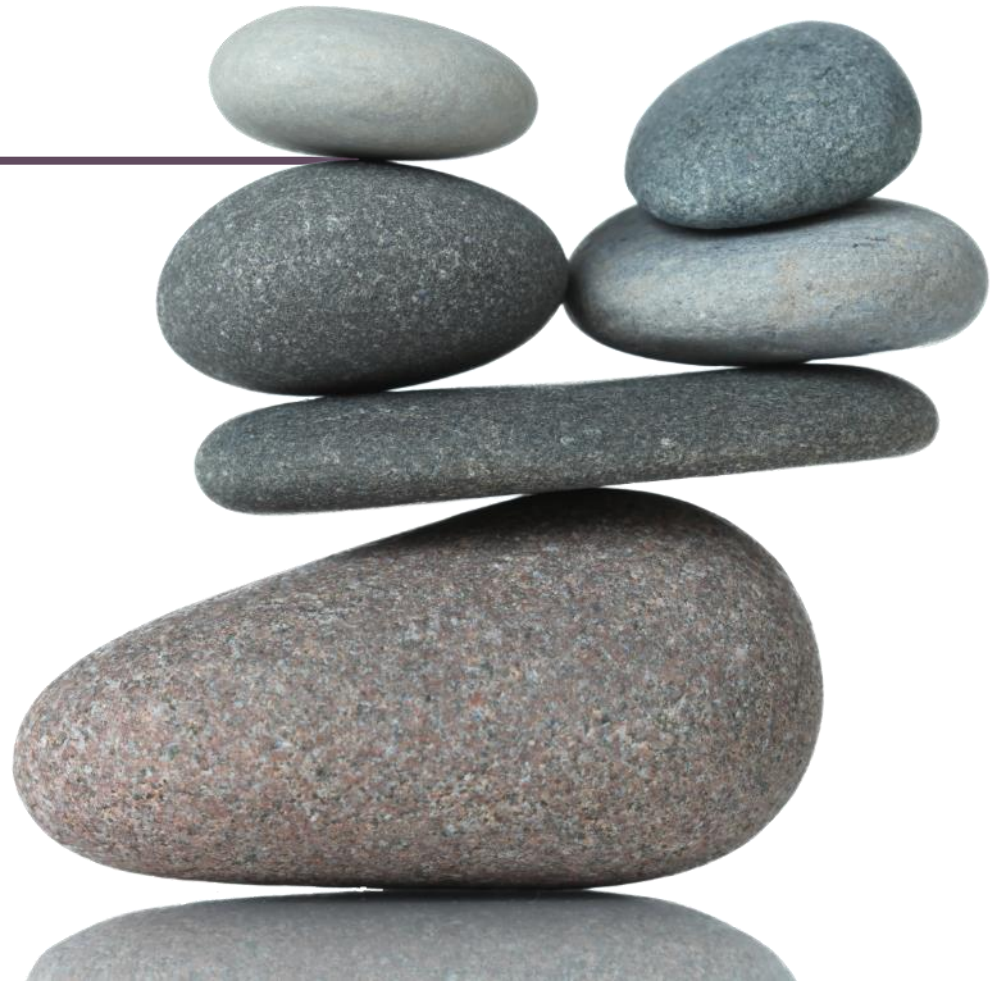
Red Flag:

You are woken by a telephone call at 2 am reporting that your patient, Mr. Diallo, is in the ER with apparent respiratory depression.

Action: Be familiar with risk factors for respiratory depression and know when opioids are contra-indicated. Anticipate possible risks and develop contingency plans. Teach patients, family, and caregivers about respiratory depression and its symptoms.

SPECIFIC DRUG INFORMATION FOR ER/LA OPIOID ANALGESIC PRODUCTS

Unit VI



Specific Characteristics

Know for opioid products you prescribe:

**Drug
substance**

Formulation

Strength

**Dosing
interval**

**Key
instructions**

**Use in opioid-
tolerant
patients**

**Product-
specific safety
concerns**

**Relative
potency to
morphine**

**Specific information about
product conversions, if available**

Specific drug interactions

For detailed information, refer to online PI:

DailyMed at www.dailymed.nlm.nih.gov Drugs@FDA at www.fda.gov/drugsatfda

FDA. Blueprint for Prescriber Education for Extended-Release and Long-Acting Opioid Analgesics. 8-28-2012.
www.fda.gov/downloads/Drugs/DrugSafety/PostmarketDrugSafetyInformationforPatientsandProviders/UCM311290.pdf

Morphine Sulfate ER Capsules (Avinza)

Dosing interval	<ul style="list-style-type: none">• Once a day
Key instructions	<ul style="list-style-type: none">• Initial dose in opioid non-tolerant patients is 30 mg• Titrate using a minimum of 3-d intervals• Swallow capsule whole (do not chew, crush, or dissolve)• May open capsule & sprinkle pellets on applesauce for patients who can reliably swallow without chewing; use immediately• MDD:* 1600 mg (renal toxicity of excipient, fumaric acid)
Drug interactions	<ul style="list-style-type: none">• Alcoholic beverages or medications w/ alcohol may result in rapid release & absorption of potentially fatal dose• PGP* inhibitors (e.g., quinidine) may increase absorption/exposure of morphine by ~2-fold
Opioid-tolerant	<ul style="list-style-type: none">• 90 mg & 120 mg capsules for use in opioid-tolerant patients only
Product-specific safety concerns	<ul style="list-style-type: none">• None

* MDD=maximum daily dose; PGP= P-glycoprotein

Buprenorphine Transdermal System (Butrans)

Dosing interval

- One transdermal system every 7 d

Key instructions

- Initial dose in opioid non-tolerant patients on <30 mg morphine equivalents & in mild-moderate hepatic impairment: 5 mcg/h
- When converting from 30 mg-80 mg morphine equivalents, first taper to 30 mg morphine equivalent, then initiate w/ 10 mcg/h
- Titrate after a minimum of 72 h prior to dose adjustment
- Maximum dose: 20 mcg/h due to risk of QTc prolongation
- Application
 - Apply only to sites indicated in PI
 - Apply to intact/non-irritated skin
 - Prep skin by clipping hair; wash site w/ water only
 - Rotate application site (min 3 wks before reapply to same site)
 - Do not cut
- Avoid exposure to heat
- Dispose of patches: fold adhesive side together & flush down toilet

Buprenorphine Transdermal System (Butrans) cont'd

Drug interactions	<ul style="list-style-type: none">• CYP3A4 inhibitors may increase buprenorphine levels• CYP3A4 inducers may decrease buprenorphine levels• Benzodiazepines may increase respiratory depression• Class IA & III antiarrhythmics, other potentially arrhythmogenic agents, may increase risk of QTc prolongation & torsade de pointe
Opioid-tolerant	<ul style="list-style-type: none">• 10 mcg/h & 20 mcg/h for use in opioid-tolerant patients only
Drug-specific safety concerns	<ul style="list-style-type: none">• QTc prolongation & torsade de pointe• Hepatotoxicity• Application site skin reactions
Relative potency: oral morphine	<ul style="list-style-type: none">• Equipotency to oral morphine not established

Methadone Hydrochloride Tablets (Dolophine)

Dosing interval

- Every 8 to 12 h

Key instructions

- Initial dose in opioid non-tolerant patients: 2.5 to 10 mg
- Conversion of opioid-tolerant patients using equianalgesic tables can result in overdose & death. Use low doses according to table in full PI
- High inter-patient variability in absorption, metabolism, & relative analgesic potency
- Opioid detoxification or maintenance treatment only provided in a federally certified opioid (addiction) treatment program (CFR, Title 42, Sec 8)

Drug interactions

- Pharmacokinetic drug-drug interactions w/ methadone are complex
 - CYP 450 inducers may decrease methadone levels
 - CYP 450 inhibitors may increase methadone levels
 - Anti-retroviral agents have mixed effects on methadone levels
- Potentially arrhythmogenic agents may increase risk for QTc prolongation & torsade de pointe
- Benzodiazepines may increase respiratory depression

Methadone Hydrochloride Tablets (Dolophine) cont'd

Opioid-tolerant

- Refer to full PI

Drug-specific safety concerns

- QTc prolongation & torsade de pointe
- Peak respiratory depression occurs later & persists longer than analgesic effect
- Clearance may increase during pregnancy
- False-positive UDT possible

Relative potency: oral morphine

- Varies depending on patient's prior opioid experience

Fentanyl Transdermal System (Duragesic)

Dosing interval

- Every 72 h (3 d)

Key instructions

- Use product-specific information for dose conversion from prior opioid
- Hepatic or renal impairment: use 50% of dose if mild/moderate, avoid use if severe
- Application
 - Apply to intact/non-irritated/non-irradiated skin on a flat surface
 - Prep skin by clipping hair, washing site w/ water only
 - Rotate site of application
 - Titrate using no less than 72 h intervals
 - Do not cut
- Avoid exposure to heat
- Avoid accidental contact when holding or caring for children
- Dispose of used/unused patches: fold adhesive side together & flush down toilet

Fentanyl Transdermal System (Duragesic), cont'd

Key instructions	Specific contraindications: <ul style="list-style-type: none">• Patients who are not opioid-tolerant• Management of<ul style="list-style-type: none">– Acute or intermittent pain, or patients who require opioid analgesia for a short period of time– Post-operative pain, out-patient, or day surgery– Mild pain
Drug interactions	<ul style="list-style-type: none">• CYP3A4 inhibitors may increase fentanyl exposure• CYP3A4 inducers may decrease fentanyl exposure
Opioid-tolerant	<ul style="list-style-type: none">• All doses indicated for opioid-tolerant patients only
Drug-specific safety concerns	<ul style="list-style-type: none">• Accidental exposure due to secondary exposure to unwashed/unclothed application site• Increased drug exposure w/ increased core body temp or fever• Bradycardia• Application site skin reactions
Relative potency: oral morphine	<ul style="list-style-type: none">• See individual PI for conversion recommendations from prior opioid

Morphine Sulfate ER-Naltrexone Tablets (Embeda)

Dosing interval	<ul style="list-style-type: none">• Once a day or every 12 h
Key instructions	<ul style="list-style-type: none">• Initial dose as first opioid: 20 mg/0.8 mg• Titrate using a minimum of 3-d intervals• Swallow capsules whole (do not chew, crush, or dissolve)• Crushing or chewing will release morphine, possibly resulting in fatal overdose, & naltrexone, possibly resulting in withdrawal symptoms• May open capsule & sprinkle pellets on applesauce for patients who can reliably swallow without chewing, use immediately
Drug interactions	<ul style="list-style-type: none">• Alcoholic beverages or medications w/ alcohol may result in rapid release & absorption of potentially fatal dose• PGP inhibitors (e.g., quinidine) may increase absorption/exposure of morphine by ~2-fold
Opioid-tolerant	<ul style="list-style-type: none">• 100 mg/4 mg capsule for use in opioid-tolerant patients only
Product-specific safety concerns	<ul style="list-style-type: none">• None

Hydromorphone Hydrochloride ER Tablets (Exalgo)

Dosing interval	<ul style="list-style-type: none">• Once a day
Key instructions	<ul style="list-style-type: none">• Use conversion ratios in individual PI• Start patients w/ moderate hepatic impairment on 25% dose prescribed for patient w/ normal function• Renal impairment: start patients w/ moderate on 50% & patients w/ severe on 25% dose prescribed for patient w/ normal function• Titrate using a minimum of 3 to 4 d intervals• Swallow tablets whole (do not chew, crush, or dissolve)• Do not use in patients w/ sulfite allergy (contains sodium metabisulfite)
Drug interactions	<ul style="list-style-type: none">• None
Opioid-tolerant	<ul style="list-style-type: none">• All doses are indicated for opioid-tolerant patients only
Product-specific adverse reactions	<ul style="list-style-type: none">• Allergic manifestations to sulfite component
Relative potency: oral morphine	<ul style="list-style-type: none">• ~5:1 oral morphine to hydromorphone oral dose ratio, use conversion recommendations in individual product information

Morphine Sulfate ER Capsules (Kadian)

Dosing interval	<ul style="list-style-type: none">• Once a day or every 12 h
Key instructions	<ul style="list-style-type: none">• PI recommends not using as first opioid• Titrate using minimum of 2-d intervals• Swallow capsules whole (do not chew, crush, or dissolve)• May open capsule & sprinkle pellets on applesauce for patients who can reliably swallow without chewing, use immediately
Drug interactions	<ul style="list-style-type: none">• Alcoholic beverages or medications w/ alcohol may result in rapid release & absorption of potentially fatal dose of morphine• PGP inhibitors (e.g., quinidine) may increase absorption/exposure of morphine by ~2-fold
Opioid-tolerant	<ul style="list-style-type: none">• 100 mg & 200 mg capsules for use in opioid-tolerant patients only
Product-specific safety concerns	<ul style="list-style-type: none">• None

Morphine Sulfate CR Tablets (MS Contin)

Dosing interval	<ul style="list-style-type: none">• Every 8 h or every 12 h
Key instructions	<ul style="list-style-type: none">• Product information recommends not using as first opioid.• Titrate using a minimum of 2-d intervals• Swallow tablets whole (do not chew, crush, or dissolve)
Drug interactions	<ul style="list-style-type: none">• PGP inhibitors (e.g., quinidine) may increase absorption/exposure of morphine by ~2-fold
Opioid-tolerant	<ul style="list-style-type: none">• 100 mg & 200 mg tablet strengths for use in opioid-tolerant patients only
Product-specific safety concerns	<ul style="list-style-type: none">• None

Tapentadol ER Tablets (Nucynta ER)

Dosing interval	<ul style="list-style-type: none">• Every 12 h
Key instructions	<ul style="list-style-type: none">• 50 mg every 12 h is initial dose in opioid non-tolerant patients• Titrate by 50 mg increments using minimum of 3-d intervals• MDD: 500 mg• Swallow tablets whole (do not chew, crush, or dissolve)• Take 1 tablet at a time w/ enough water to ensure complete swallowing immediately after placing in mouth• Dose once/d in moderate hepatic impairment (100 mg/d max)• Avoid use in severe hepatic & renal impairment
Drug interactions	<ul style="list-style-type: none">• Alcoholic beverages or medications w/ alcohol may result in rapid release & absorption of a potentially fatal dose of tapentadol• Contraindicated in patients taking MAOIs
Opioid-tolerant	<ul style="list-style-type: none">• No product-specific considerations
Product-specific safety concerns	<ul style="list-style-type: none">• Risk of serotonin syndrome• Angio-edema
Relative potency: oral morphine	<ul style="list-style-type: none">• Equipotency to oral morphine has not been established

Oxymorphone Hydrochloride ER Tablets (Opana ER)

Dosing interval	<ul style="list-style-type: none">• Every 12 h dosing, some may benefit from asymmetric (different dose given in AM than in PM) dosing
Key instructions	<ul style="list-style-type: none">• Use 5 mg every 12 h as initial dose in opioid non-tolerant patients & patients w/ mild hepatic impairment & renal impairment (creatinine clearance <50 mL/min) & patients >65 yrs• Swallow tablets whole (do not chew, crush, or dissolve)• Take 1 tablet at a time, w/ enough water to ensure complete swallowing immediately after placing in mouth• Titrate using a minimum of 2-d intervals• Contraindicated in moderate & severe hepatic impairment
Drug interactions	<ul style="list-style-type: none">• Alcoholic beverages or medications w/ alcohol may result in absorption of a potentially fatal dose of oxymorphone
Opioid-tolerant	<ul style="list-style-type: none">• No product-specific considerations
Product-specific safety concerns	<ul style="list-style-type: none">• None
Relative potency: oral morphine	<ul style="list-style-type: none">• Approximately 3:1 oral morphine to oxymorphone oral dose ratio

Oxycodone Hydrochloride CR Tablets (OxyContin)

Dosing interval	<ul style="list-style-type: none">• Every 12 h
Key instructions	<ul style="list-style-type: none">• Opioid-naïve patients: initiate treatment w/ 10 mg every 12 h• Titrate using a minimum of 1 to 2 d intervals• Hepatic impairment: start w/ $\frac{1}{3}$-$\frac{1}{2}$ usual dosage• Renal impairment (creatinine clearance <60 mL/min): start w/ $\frac{1}{2}$ usual dosage• Consider other analgesics in patients w/ difficulty swallowing or underlying GI disorders that predispose to obstruction. Swallow tablets whole (do not chew, crush, or dissolve)• Take 1 tablet at a time, w/ enough water to ensure complete swallowing immediately after placing in mouth
Drug interactions	<ul style="list-style-type: none">• CYP3A4 inhibitors may increase oxycodone exposure• CYP3A4 inducers may decrease oxycodone exposure
Opioid-tolerant	<ul style="list-style-type: none">• Single dose >40 mg or total daily dose >80 mg for use in opioid- tolerant patients only
Product-specific safety concerns	<ul style="list-style-type: none">• Choking, gagging, regurgitation, tablets stuck in throat, difficulty swallowing tablet• Contraindicated in patients w/ GI obstruction
Relative potency: oral morphine	<ul style="list-style-type: none">• Approximately 2:1 oral morphine to oxycodone oral dose ratio

FDA. *Blueprint for Prescriber Education for Extended-Release and Long-Acting Opioid Analgesics*. 8-28-2012.
www.fda.gov/downloads/Drugs/DrugSafety/PostmarketDrugSafetyInformationforPatientsandProviders/UCM311290.pdf

Summary



Prescription opioid abuse & overdose is a national epidemic. Clinicians must play a role in prevention

**Understand how to
assess patients for
treatment
w/ ER/LA opioids**

**Be familiar w/ how to
initiate therapy,
modify dose, &
discontinue use of
ER/LA opioids**

**Know how to manage
ongoing therapy w/
ER/LA opioids**

**Know how to counsel
patients & caregivers
about the safe
use of ER/LA opioids,
including proper
storage & disposal**

**Be familiar w/ general
& product-specific
drug information
concerning
ER/LA opioids**

IMPORTANT!

Thank you for completing the post-activity assessment for this CO*RE session.

Your participation in this assessment allows CO*RE to report de-identified numbers to the FDA.

A strong show of engagement will demonstrate that clinicians have voluntarily taken this important education and are committed to patient safety and improved outcomes.

THANK YOU!

Thank you!

www.core-rem.s.org

