

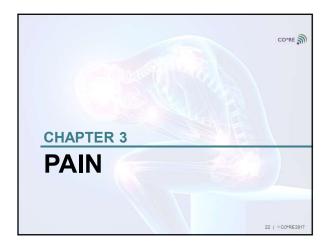




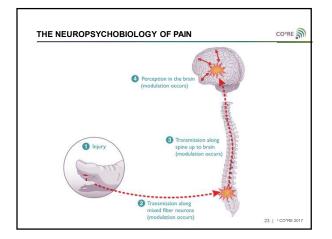


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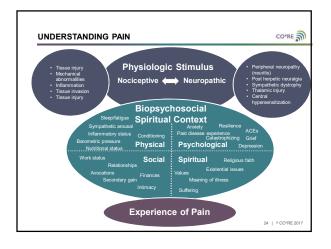
You and Your Team *can* have an immediate and positive impact on this crisis while also caring for your patients appropriately.



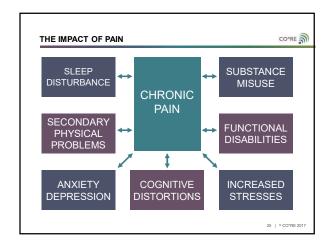




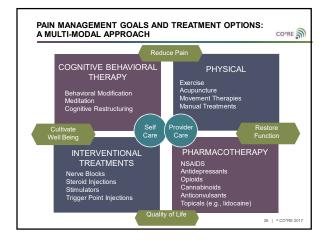




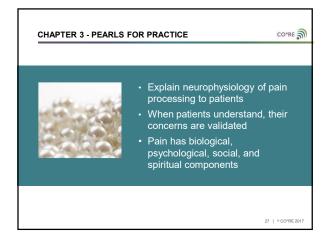












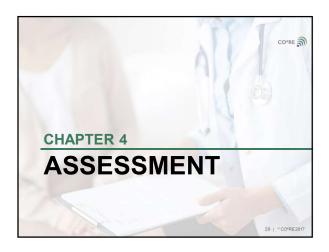
CHALLENGE: THE EARLY REFILL

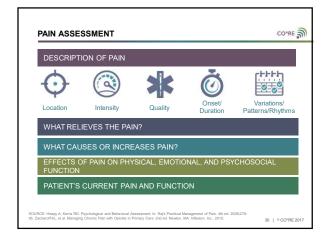
Took extra medications for headache and again for toothache.

Prescription is for lower back pain.

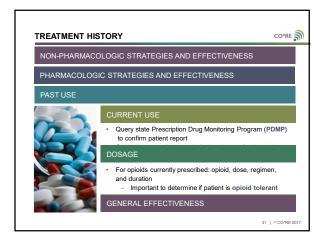
Action:

Evaluate potential misuse. Confirm patient's understanding of each medication's dosage, time of day, and maximum daily dose. Ask him/her to repeat these instructions back to you. Avoid clinical terms such as "pm". Review treatment goals and expectations. Select and document a therapy plan that is compatible with patients' individual needs, is safe, effective and balanced. Screen for risk with Current Opioid Misuse Measure (COMM) and, if indicated, refer to addiction specialist for treatment.





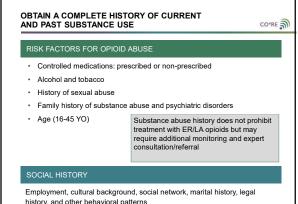




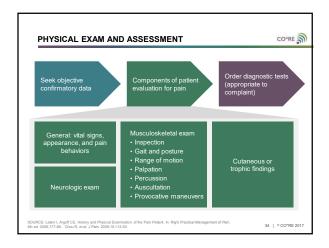


OPIOIDS	IT TO (1) EFFECTS OR (2) METABOLISM OF	
1. Pulmonary disea	se, constipation, nausea, cognitive impairment	
2. Hepatic, renal di		
ILL NESS POSSIBI	Y LINKED TO SUBSTANCE USE DISORDER	(SUD).
		.000).
 Hepatitis 	Trauma/Burns	
• HIV	Cardiac Disease	
• חוע		
 Tuberculosis 	 Pulmonary Disease 	
	Pulmonary Disease	





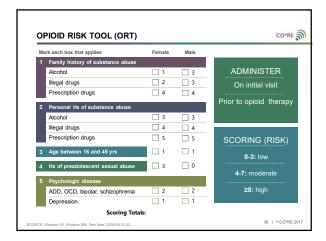
history, and other behavioral patterns



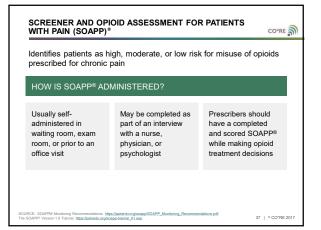


TOOL	# OF ITEMS	ADMINISTERE
PATIENTS CONSIDERED FOR LONG-TERM OPIOID THERA	PY	
ORT Opioid Risk Tool	5	patient
SOAPP® Screener and Opioid Assessment for Patients with Pain	24, 14, & 5	patient
DIRE Diagnosis, Intractability, Risk, and Efficacy score	7	cliniciar
CHARACTERIZE MISUSE ONCE OPIOID TREATMENT BEGI	NS	
PMQ Pain Medication Questionnaire	26	patient
COMM Current Opioid Misuse Measure	17	patient
PDUQ Prescription Drug Use Questionnaire	40	cliniciar
NOT SPECIFIC TO PAIN POPULATIONS		
CAGE-AID Cut Down, Annoyed, Guilty, Eye-Opener tool, Adapted to Include Drugs	4	cliniciar
RAFFT Relax, Alone, Friends, Family, Trouble	5	patient
DAST Drug Abuse Screening Test	28	patient
SBIRT Screening, Brief Intervention, and Referral to Treatment	Varies	cliniciar

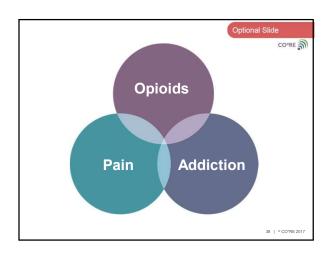




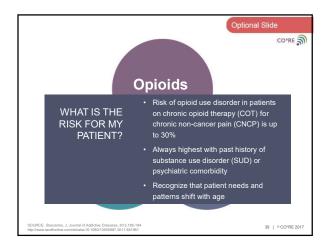






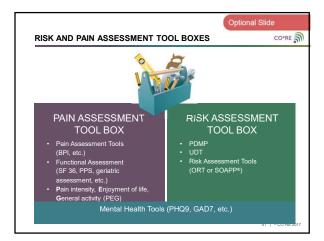








PAIN – 5 A'S	ADDICTION – 5 C'S
Analgesia	Control, loss of
Activities/Function	Compulsive use
Aberrant Behavior	Craving drug
Adverse Effects	Continued use
Affect	Chronic problem











INITIATING OPIOIDS: CDC GUIDELINE (2016)

Begin with IR

- Prescribe the lowest effective dosage
- · Use caution at any dosage, but particularly when

Not a good candidate for opioid therapy

- Increasing dosage to ≥50 morphine milligram equivalents (MME)/day and carefully justify a decision to titrate dosage to ≥90 MME/day
 For acute pain, prescribe lowest effective dose of IRs, no more than needed
- Re-evaluate risks/benefits within 1 4 weeks of initiation or dose escalation
- Re-evaluate risks/benefits every 3 months; if benefits do not outweigh harms
- optimize other therapies, work to taper and discontinue
 Link to the Guideline:

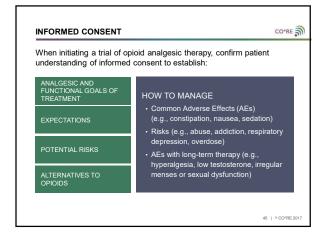
https://www.cdc.gov/drugoverdose/prescribing/providers.html

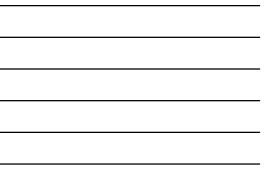
Cancer pain, hospice, and palliative care patients are not covered by CDC Guideline

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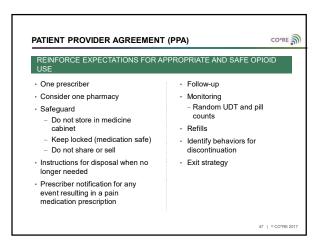
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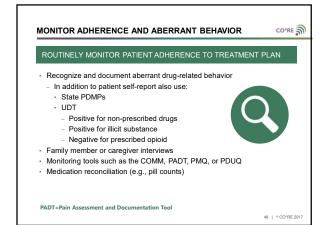
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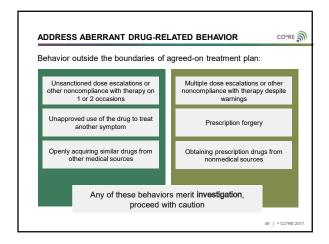




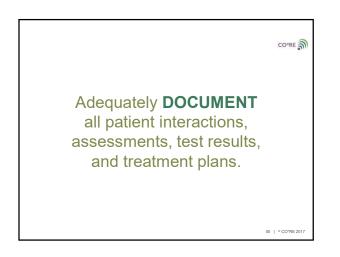
Document signed s prescribed	by both patient an	d prescriber at time	an opioid
	T'S FAMILY, AND O	DALS OF TREATMEN THER CLINICIANS IN	
ASSIST IN PATIEI	NT EDUCATION		
	ATION SAFE HAND	LING, STORAGE, ANI	D DISPOSAL
DOCUMENT PATI	ENT AND PRESCR	BER RESPONSIBILIT	IES

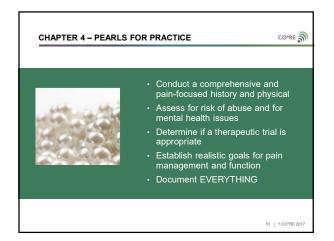






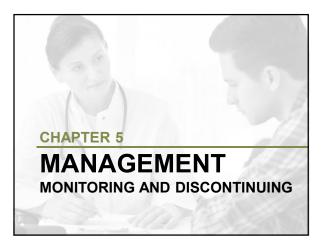






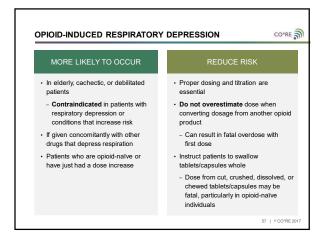


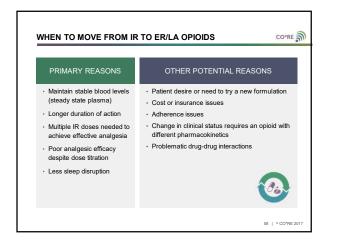


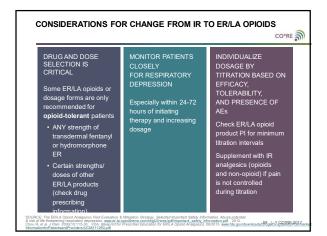




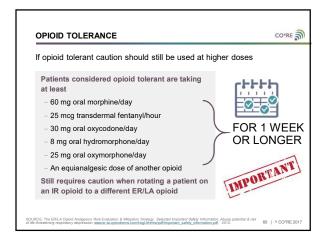
PIOID-INDUCED RE	SPIRATORY DEPRESS	SION cc
Chief hazard of opioid agonists, including ER/LA opioids • If not immediately recognized and treated, may lead to respiratory arrest and death • Greatest risk: initiation of therapy or after dose increase	Manifested by reduced urge to breathe and decreased respiration rate • Shallow breathing • CO ₂ retention can exacerbate opioid sedating effects	Instruct patients/family members to call 911 Managed with • Close observation • Supportive measures • Opioid antagonists • Depending on patient's clinical status













OPIOID ROTATION

DEFINITION

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

RATIONALE

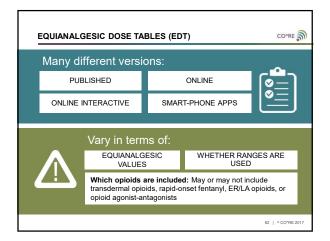
Differences in pharmacologic or other effects make it likely that a switch will improve outcomes

- · Effectiveness and AEs of different mu opioids vary among patients
- · Patients show incomplete cross-tolerance to new opioid
- Patient tolerant to first opioid can have improved analgesia from second opioid at a dose lower than calculated from an Equianalgesic Dosing Table (EDT)

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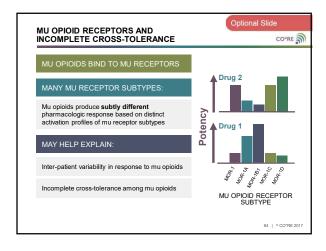
61 | ° CO*RE 2017

m Manage. 2009;38:418-25. Knotkova H, et al. J Pain Symptom W. Neuropharmacol. 2004;47(suppl 1):312-23.

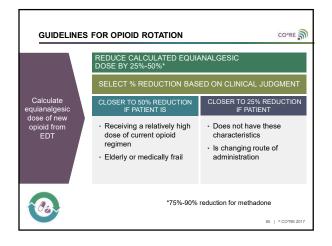


EXAMPLE OF A	N EDT I	FOR ADU	JLTS	CO*RE
Ec	quianalges	ic Dose	Usual St	arting Doses
DRUG	SC/IV	PO	PARENTERAL	PO
Morphine	10 mg	30 mg	2.5-5 mg SC/IV q3-4hr (1.25-2.5 mg)	5-15 mg q3-4hr (IR or oral solution) (2.5-7.5 mg)
Oxycodone	NA	20 mg	NA	5-10 mg q3-4 (2.5 mg)
Hydrocodone	NA	30 mg	NA	5 mg q3-4h (2.5 mg)
Hydromorphone	1.5 mg	7.5 mg	0.2-0.6 mg SC/IV q2-3hr (0.2 mg)	1-2 mg q3-4hr (0.5-1 mg)
				63 ° CO*RE 201

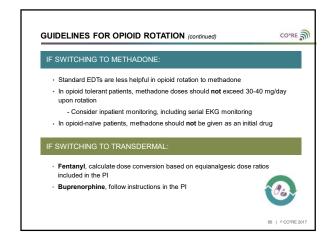












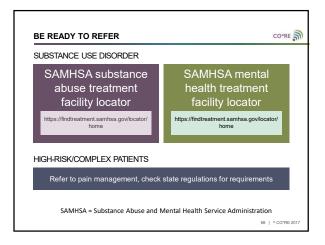
BREAKTHROUGH PAIN (BTP)

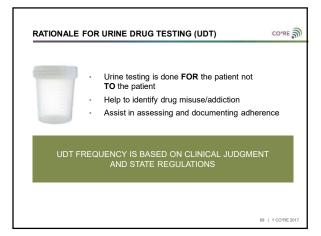
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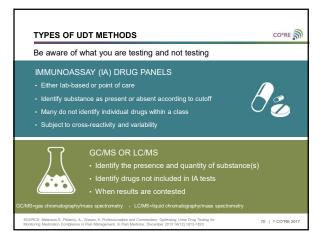
- PATIENTS ON STABLE ATC OPIOIDS MAY EXPERIENCE BTP Disease progression or a new or unrelated pain
 Target cause or precipitating factors
 Dose for BTP: using an IR is 5%-15% of total daily opioid dose, administered at an appropriate interval

- 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

ATC = Around the Clock







SPECIFIC WINDOWS OF DRUG DETECTION				
How long a person excretes drug and/or metabolite(s) at a concentration above a cutoff				
DETECTION TIME OF	DRUGS IN URINE			
Governed by various factors; e.g., dose, route of administration, metabolism, fat solubility, urine	For most drugs it is 1-3 days	Chronic use of lipid- soluble drugs increases detection time; e.g., marijuana, diazepam, ketamine		

SPECIFIC WINDOWS OF DRUG DETECTION (continued)			
Drug	How soon after taking drug will there be a positive drug test?	How long after taking drug will there continue to be a positive drug test?	
Marijuana/Pot	1-3 hours	1-7 days	
Crack (Cocaine)	2-6 hours	2-3 days	
Heroin (Opiates)	2-6 hours	1-3 days	
Speed/Uppers (Amphetamine, methamphetamine)	4-6 hours	2-3 days	
Angel Dust/PCP	4-6 hours	7-14 days	
Ecstasy	2-7 hours	2-4 days	
Benzodiazepine	2-7 hours	1-4 days	
Barbiturates	2-4 hours	1-3 weeks	
Methadone	3-8 hours	1-3 days	
Tricyclic Antidepressants	8-12 hours	2-7 days	
Oxycodone	1-3 hours	1-2 days	

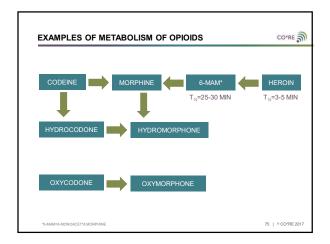


		Optior	al Slide
JRINE SPECI	MEN INTEGRITY		CO*RE
SPECIMEN CO	DLOR RELATED TO CO	NCENTRATION	
Concentra	ted samples more reliable t	nan dilute samples	
TEMP WITHIN	4 MINUTES OF VOIDIN	G IS 90-100⁰F	
PH FLUCTUAT	ES WITHIN RANGE OF	4.5-8.0	
CREATININE \	ARIES WITH HYDRATIO	N	
Normal urine: >20 mg/dL	Dilute: creatinine <20 mg/dL and specific gravity <1.003	Creatinine <2 mg/dL not consistent with human urine	
			73 © CO*RE 201



INTERPRETAT	ON OF UDT RESULTS corre බා
POSTIVE RESULT	Demonstrates recent use • Most drugs in urine have detection times of 1-3 days • Chronic use of lipid-soluble drugs: test positive for ≥1 week 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 • Binging, running out early • Other factors: e.g., cessation of insurance, financial difficulties
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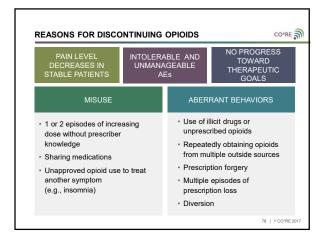






CPALLENGE: THE OFFENDED PATIENT CORE CORE RED FLAG: Ou decide not to request routine risk assessment for far of creating conflict Du decide not to request routine risk assessment for far of creating conflict Du decide not to request routine risk assessments for betaked to the becomes upset and accuses you of not trusting her. You decide against further risk assessments because you are concerned about damaging the relationship. Duto: Require all patients receiving opiolds to follow a treatment plan and adhere to defined expectations. Create office policy for performing UDT for patients receiving opiolds beyond two weeks. Practice universal precautions. Explain to patient that you must meet the standards of care that include evaluation of risk in all patients, use of PPAs, and other tools.



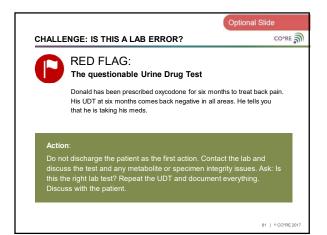




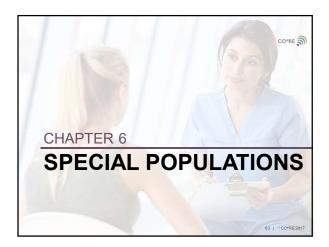
•	Minimize withdrawal symptoms in opioid-dependent patient, consider medications to assist with	ETA
	withdrawal	
•	May use a range of approaches from slow 10% dose reduction per week to more rapid 25%-50% reduction every few days	
	If opioid use disorder or a failed taper, refer to	W AV
	addiction specialist or consider opioid agonist therapy	
	Counseling and relaxation strategies needed	

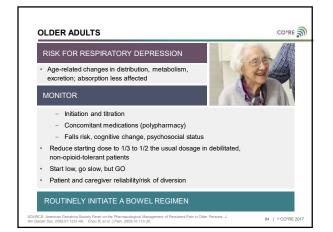


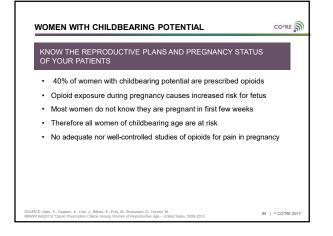
	 Establish informed consent and PPA at the beginning
14	 Educate the whole team: patients, families, caregivers
- A CAR	Refer if necessary
20.0.1	 Anticipate opioid-induced respiratory depression and constipation
	 Follow patients closely during times of dose adjustments
	 Periodically evaluate functional outcomes
	Discontinue opioids slowly and safely

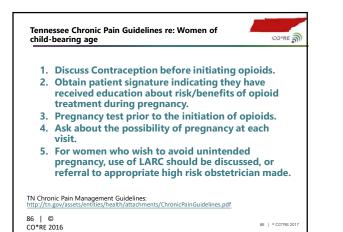


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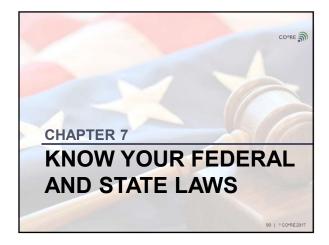




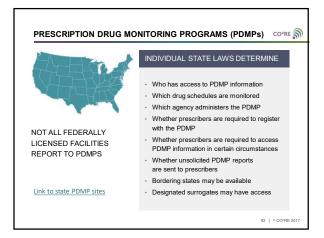


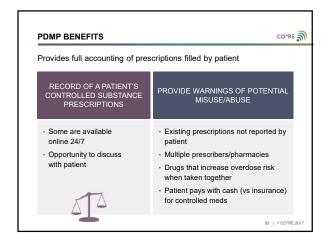


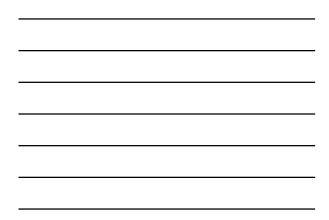








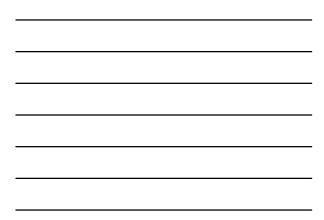




Opioid Prescribing: Safe Practice, Changing Lives State Specific Information Tennessee Wwt.n.gov/health Created: August 2016 Updated: August 2017



PDMP: Prograr	Prescription Drug Monitoring	
	TN Controlled Substances Monitoring Database Program www.tncsmd.com	
General	 Administered by Department of Health 	
	Schedule II-V are monitored	
	 Dispensers and Prescribers are required to register and input data 	
	 Before prescribing, there is an obligation to review under certain circumstances 	
Access	 Prescribers, dispensers; county medical examiner; law enforcement/judicial; licensing boards; inspector general, the Medicaid fraud control unit, and the bureau of TemCare related to participants in TemCare; chief pharmacist, the state opioid treatment authority, and the medical director of the department of mental health and substance abuse services; quality improvement committee of hospital; patient; third party with signed consent form 	
Access	licensing boards; inspector general, the Medicaid fraud control unit, and the bureau of TennCare related to participants in TennCare; chief pharmacist, the state opioid treatment authority, and the medical director of the department of mental health and substance abuse services; quality improvement	
Access	licensing boards; inspector general, the Medicaid fraud control unit, and the bureau of femcCar celated to participants in TennCare; chief pharmacist, the state opioid treatment authority, and the medical director of the department of mental health and substance abuse services; quality improvement committee of hospital; patient; third party with signed consent form	
	licensing boards; inspector general, the Medicaid fraud control unit, and the bureau of femCare related to participants in TemCare; chief pharmacist, the state opioid treatment authority, and the medical director of the department of mental health and substance abuse services; quality improvement committee of hospital; patient; third party with signed consent form • Prescribers can authorize a registered delegate	
	Iteensing boards; inspector general, the Medicaid fraud control unit, and the bureau of femcar erelated to participants in TennCare; chilef pharmacist, the state opioid treatment authority, and the medical director of the department of mental health and substance abuse services; quality improvement committee of hospital; patient; third party with signed consent form • Prescribers can authorize a registered delegate • Must be entered into PDMP 24 hours after dispensing • Unsolicited reports/alerts are sent to prescribers, dispensers, licensing	
	licensing boards; inspector general, the Medicali fraud control unit, and the bureau of femCar related to participants in TennCare; chilef pharmadist, the state opioid treatment authority, and the medical director of the department of mental health and substance abuse services; quality improvement committee of hospital; patient; third party with signed consent form • Prescribers can authorize a registered delegate • Must be entered into PDMP 24 hours after dispensing • Unsolicited reports/alerts are sent to prescribers, dispensers, licensing boards, law enforcement	
Access	Ilcensing boards; inspector general, the Medicali fraud control unit, and the bureau of femCare related to participants in TennCare; chilef pharmacist, the state opioid treatment authority, and the medical director of the department of mental health and substance abuse services; quality improvement committee of hospital; patient; third party with signed consent form • Prescribers can authorize a registered delegate • Must be entered into PDMP 24 hours after dispensing • Unsolicited reports/alerts are sent to prescribers, dispensers, licensing boards, law enforcement • Tennessee does share data with other states' PDMP	



Initial prescribing li	mits for acute pair		
	Physician	Physician Assistant	Advanced Practice Nurse
Prescriber Status	Licensed	Schedule II-V	Schedule II-V
Education Requirements	2 hrs./2 yrs.	2 hrs./2 yrs.	2 hrs./2 yrs.



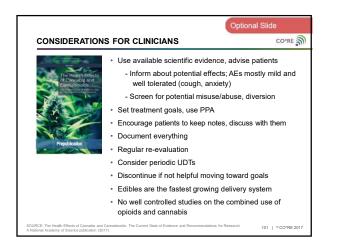
Regulation
• July 2015
 Prescribers: No Dispensers: No Lay People: No
• 3rd Party Status: Yes • Standing Order: Yes
• Yes
• First Responders
hl.org/_asset/qz5pvn/legal-interventions-to-reduce-overdose.pdf_May 2017 98 + CoVRE 2017

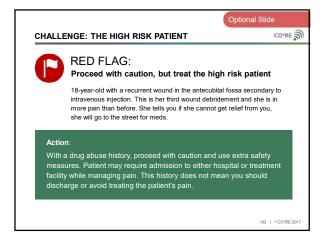
atus t is not legal to prescribe	
t is not legal for recreational use http://lawatlas.org/ouery/dataset=medical-marijuana-patient-related-la http://www.namsdl.org/controlled-substances-and-prescription-drugs-r	
tient Prescriber Agreement a ograms	nd Treatment
Patient Prescriber Agreement (PPA) is recommended o http://www.namsdl.org/library/7440DB2D-FEBC-5D71-83963097CEEE4A	

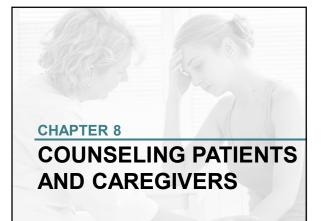
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CANNABIS	CO*RE
The Server A water of	DEA Schedule 1 ("high abuse potential") yet state laws and regulations vary
of Cannabis and Cannabiolds Becken and the second a	There is evidence that cannabis or selective cannabinoids (cannabidiol) are effective for chronic pain treatment in adults
	More research is needed
Prepublication	 Concern for high risk groups: children, adolescents, pregnant women

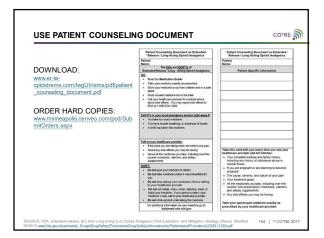




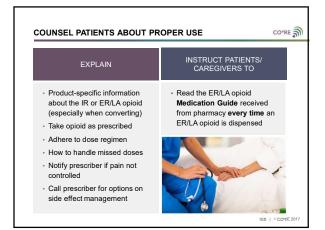




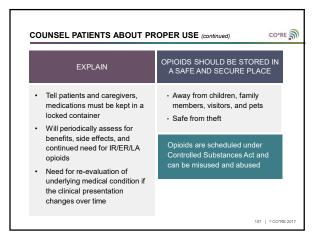


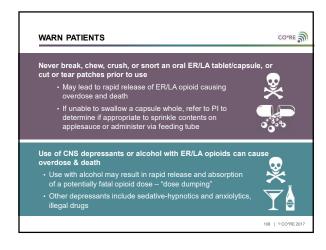






OPIOIDS CAN CAUSE DEATH EVEN WHEN TAKEN PROPERLY
 Signs/symptoms are respiratory depression,
gastrointestinal obstruction, allergic reactions
ALL ALL
200





OVERDOSE POISONING, CALL 911

CO*RE

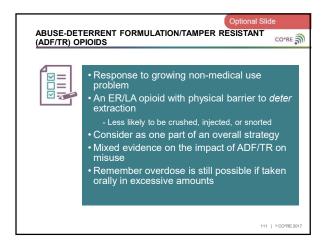
- Person cannot be aroused or awakened or is unable to talkAny trouble with breathing, heavy snoring is warning sign
- Gurgling noises coming from mouth or throat
- Body is limp, seems lifeless; face is pale, clammy
- Fingernails or lips turn blue/purple

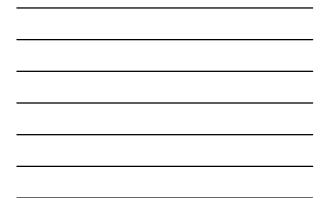
EMERGENCY DIAL 911

· Slow, unusual heartbeat or stopped heartbeat



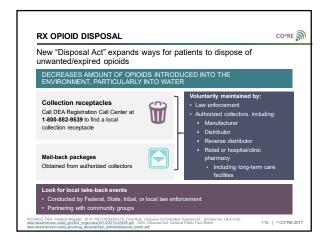
NALOXONE	CO*RE
Naloxone: • An opioid antagonist administered by injection or intranasally, or IV • Reverses acute opioid-induced respiratory depression but will also reverse analgesia	Available as: • Naloxone kit (with syringes, needles) • Injectable • Nasal spray
What to do: • Discuss an 'overdose plan' • Involve and train family, friends, partners, and/or caregivers • Check with pharmacy if they are prescribing • Check expiration dates and keep a viable dose on hand • In the event of known or suspected overdose, administer naloxone and call 911	Consider offering a naloxone prescription to all patients prescribed IR and ER/LA opioids















FLUSH DOWN SINK/TOILET IF NO COLLECTION RECEPTACLE, MAIL-BACK PROGRAM, OR TAKE-BACK EVENT AVAILABLE • As soon as they are no longer needed

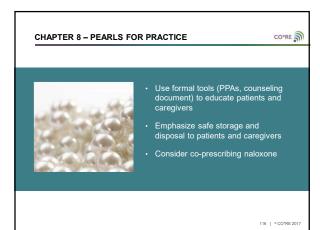
· Includes transdermal adhesive skin patches

FDA: PRESCRIPTION DRUG DISPOSAL

- Used patch (3 days) 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
 Butrans (buprenorphine transdermal system)
 - exception: can seal in Patch-Disposal Unit provided and dispose of in the trash

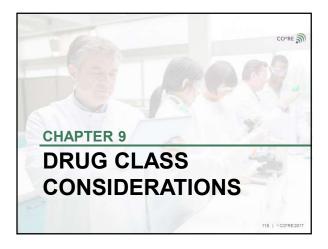


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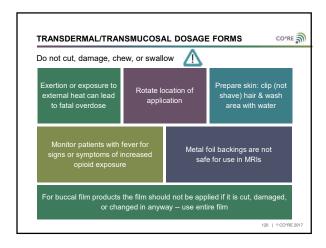
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FOR SAFER USE: KNOW DRUG	NTERACTIONS, PK, AND PDCOTRE
CNS depressants can potentiate sedation and respiratory depression	Some ER/LA products rapidly release opioid (dose dump) when exposed to alcohol Some drug levels may increase without dose dumping
Use with MAOIs may increase respiratory depression Certain opioids with MAOIs can cause serotonin syndrome	Can reduce efficacy of diuretics Inducing release of antidiuretic hormone
Methadone and buprenorphine can prolong QTc interval	Drugs that inhibit or induce CYP enzymes can increase or lower blood levels of some opioids

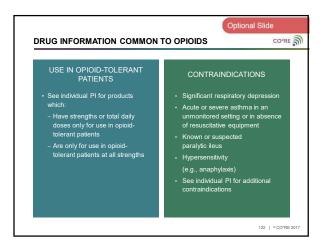




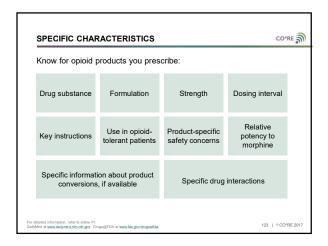


 Concurrent use with other CNS depressants can increase risk of respiratory depression, hypotension, profound sedation, or coma Reduce initial dose of one or both agents 	 Avoid concurrent use of partial agonists* or mixed agonist/antagonists[†] with full opioid agonist May reduce analgesic effect and/or precipitate withdrawal
 May enhance neuromuscular blocking action of skeletal muscle relaxants and increase respiratory depression 	 Concurrent use with anticholinergic medication increases risk of urinary retention and severe constipation May lead to paralytic ileus















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Our session stops here, but your review continues Refer to Appendix 1 for specific drug information on ER/LA opioid analgesic products
For detailed information, prescribers can refer to prescribing information available online via DailyMed at <u>www.dailymed.nlm.nih.gov</u> or Drugs@FDA at <u>www.fda.gov/drugsatfda</u> 125 *COME 2017

OUR PARTICIPATION IS IMPORTANT	CO*I
Thank you for completing the pos assessment for this CO*RE se	
Your participation in this assessment allov de-identified numbers to the	
A strong show of engagement will demonstrate voluntarily taken this important education an patient safety and improved out	d are committed to
THANK YOU	!

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	ine Sulfate ER Tablets (Arymo ER)
Capsules	15 mg, 30 mg, 60 mg
Dosing interval	 Every 8 or 12 hours
Key instructions	 Initial dose in opioid-naïve and opioid non-tolerant patients is 15 mg every 8 or 12 hours Dosage adjustment may be done every 1 to 2 days. Take one tablet at a time, with enough water to ensure complete swallowing immediately after placing in the mouth
Drug interactions	 P-gp inhibitors (e.g. quinidine) can increase the exposure of morphine by about two-fold and increase risk of respiratory depression
Opioid-tolerant	 A single dose of ARYMO ER greater than 60 mg, or total daily dose greater than 120 mg, is for use in opioid-tolerant patients only.
Product- specific safety concerns	 Do not attempt to chew, crush, or dissolve. Swallow whole. Use with caution in patients who have difficulty in swallowing or have underlying GI disorders that may predispose them to obstruction, such as a small gastrointestinal lumen.



Dosing interval	Once a day
	 Initial dose in opioid non-tolerant patients is 30 mg
	 Titrate in increments of not greater than 30 mg using a minimum of 3-4 d intervals
Key instructions	 Swallow capsule whole (do not chew, crush, or dissolve)
instructions	 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	 Alcoholic beverages or medications w/ alcohol may result in rapid release & absorption of potentially fatal dose
interactions	 P-gp* inhibitors (e.g., quinidine) may increase absorption/exposure o morphine by ~2-fold
Opioid-tolerant	 90 mg & 120 mg capsules for use in opioid-tolerant patients only
Product- specific safety concerns	• None

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	phine Buccal Film (Belbuca)
75 mcg, 150	mcg, 300 mcg, 450 mcg, 600 mcg, 750 mcg, and 900 mcg
Dosing interval	 Every 12 h (or once every 24 h for initiation in opioid naïve patients & patients taking less than 30 mg oral morphine sulfate eq
	 Opioid-naïve pts or pts taking <30 mg oral morphine sulfate eq: Initiate treatment with a 75 mcg buccal film, once daily, or if tolerated, every 12 h
	- Titrate to 150 mcg every 12 h no earlier than 4 d after initiation
Key instructions	 Individual titration to a dose that provides adequate analgesia and minimizes adverse reaction should proceed in increments of 150 mcg every 12 h, no more frequently than every 4 d
	 When converting from another opioid, first taper the current opioid to no more than 30 mg oral morphine sulfate eq/day prior to initiating Belbuca
	 - If prior daily dose before taper was 30 mg to 89 mg oral morphine sulfate eq, initiate with 150 mcg dose every 12 h
	- If prior daily dose before taper was 90 mg to 160 mg oral morphine sulfate eq, initiate with 300 mcg dose every 12 h
	 Titration of the dose should proceed in increments of 150 mcg every 12 h, no more frequently than every 4 d
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Bupreno	orphine Buccal Film (Belbuca) continued
Key instructions	 Maximum dose: 900 mcg every 12 h due to the potential for QTc prolongation
	 Severe Hepatic Impairment: Reduce the starting and incremental dose by half that of patients with normal liver function
	 Oral Mucositis: Reduce the starting and incremental dose by half that of patients without mucositis
	 Do not use if the package seal is broken or the film is cut, damaged, or changed in any way
	 CYP3A4 inhibitors may increase buprenorphine levels
Specific Drug Interactions	 CYP3A4 inducers may decrease buprenorphine levels
	 Benzodiazepines may increase respiratory depression
	 Class IA and III antiarrhythmics, other potentially arrhythmogenic agents, may increase risk for QTc prolongation and torsade de pointes
Use in Opioid- Tolerant Patients	 Belbuca 600 mcg, 750 mcg, and 900 mcg are for use following titration from lower doses of Belbuca
Product-	QTc prolongation and torsade de pointes
Specific Safety Concerns	Hepatotoxicity
Relative _{core 2017} Potency: Oral	 Equipotency to oral morphine has not been established.



Transderma	l System 5 mcg/hr, 7.5 mcg/hr, 10 mcg/hr, 15 mcg/hr, 20 mcg/hr
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 in 5 or 10 mcg/h increments by using no more than 2 patches of the 5 or 10 mcg/h system(s) w/ minimum of 72 h prior between dose adjustments. Total dose from all patches should be ≤20 mcg/h
	 Maximum dose: 20 mcg/h due to risk of QTc prolongation
	 Application Apply to sites indicated in PI Apply to intact/non-inritated 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



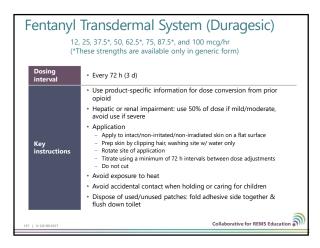
Buprenorphine Transdermal System (Butrans)

Drug interactions	CYP3A4 inhibitors may increase buprenorphine levels CYP3A4 inducers may decrease buprenorphine levels Benzodiazepines may increase respiratory depression Class IA & III antiarrythmics, other potentially arrhythmogenic agents, may increase risk of QTc prolongation & torsade de pointe
Opioid- tolerant	 7.5 mcg/h, 10 mcg/h, 15 mcg/h, & 20 mcg/h for use in opioid- tolerant patients only
Product- specific safety concerns	QTc prolongation & torsade de pointe Hepatotoxicity Application site skin reactions
Relative potency: oral morphine	Equipotency to oral morphine not established
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Methadone Hydrochloride Tablets (Dolophine)		
Dosing interval	Every 8 to 12 h	
	 Initial dose in opioid non-tolerant patients: 2.5 – 10 mg 	
	 Conversion of opioid-tolerant patients using equianalgesic tables can result in overdose & death. Use low doses according to table in full PI 	
Key instructions	 Titrate slowly with dose increases no more frequent than every 3-5 d. Because of high variability in methadone metabolism, some patients may require substantially longer periods between dose increases (up to 12 d). 	
	 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)	
	Pharmacokinetic drug-drug interactions w/ methadone are complex CYP 450 inducers may decrease methadone levels CYP 450 inhibitors may increase methadone levels	
Drug interactions	 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	
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Methadone Hydrochloride Tablets (Dolophine)

Opioid- tolerant	• Refer to full PI
Product- 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
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	Specific contraindications:
	 Patients who are not opioid-tolerant
Key instructions	Management of Acute or intermittent pain, or patients who require opioid analgesia for a short tim Post-operative pain, out-patient, or day surgery Mid pain
	 CYP3A4 inhibitors may increase fentanyl exposure
Drug interactions	 CYP3A4 inducers may decrease fentanyl exposure
brug interactions	 Discontinuation of concomitant CYP P450 3A4 inducer may increase fentanyl plasma concentration
Opioid-tolerant	All doses indicated for opioid-tolerant patients only
	 Accidental exposure due to secondary exposure to unwashed/unclothed application site
Product-specific	 Increased drug exposure w/ increased core body temp or fever
safety concerns	Bradycardia
	 Application site skin reactions
Relative potency:	 See individual PI for conversion recommendations from prior opioid

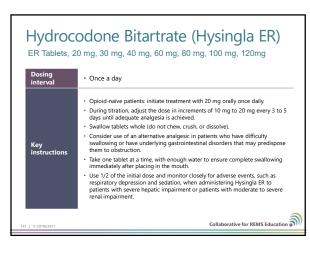
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	ulfate ER-Naltrexone (Embeda) 8 mg, 30 mg/1.2 mg, 50 mg/2 mg, 60 mg/2.4 mg, 1 mg/4 mg
Dosing interval	Once a day or every 12 h
	 Initial dose as first opioid: 20 mg/0.8 mg
	 Titrate using a minimum of 1-2 d intervals
	 Swallow capsules whole (do not chew, crush, or dissolve)
Key instructions	 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	 Alcoholic beverages or medications w/ alcohol may result in rapid release & absorption of potentially fatal dose
interactions	 P-gp inhibitors (e.g., quinidine) may increase absorption/exposure of morphine by ~2-fold
Opioid-tolerant	 100 mg/4 mg capsule for use in opioid-tolerant patients only
Product-specific safety concerns	• None
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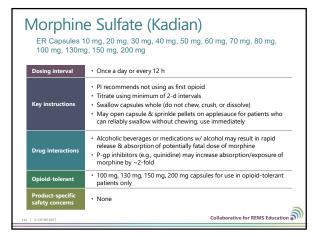
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Hydrocodone Bitartrate (Hysingla ER)				
	 CYP3A4 inhibitors may increase hydrocodone exposure. 			
	 CYP3A4 inducers may decrease hydrocodone exposure. 			
Drug interactions	 Concomitant use of Hysingla ER with strong laxatives (e.g., Lactulose) that rapidly increase GI motility may decrease hydrocodone absorption and result in decreased hydrocodone plasma levels. 			
	 The use of MAO inhibitors or tricyclic antidepressants with Hysingla ER may increase the effect of either the antidepressant or Hysingla ER. 			
Opioid-tolerant	 A single dose ≥ 80 mg is only for use in opioid tolerant patients. 			
	 Use with caution in patients with difficulty swallowing the tablet or underlying gastrointestinal disorders that may predispose patients to obstruction. 			
	 Esophageal obstruction, dysphagia, and choking have been reported with Hysingla ER. 			
Product-specific safety concerns	 In nursing mothers, discontinue nursing or discontinue drug. QTc prolongation has been observed with Hysingla ER following daily doses of 160 mg. 			
	 Avoid use in patients with congenital long QTc syndrome. This observation should be considered in making clinical decisions regarding patient monitoring when prescribing Hysingla ER in patients with congestive heart failure, bradyarthythmias, electrolyte abnormalities, or who are taking medications that are known to prolong the QTc interval. 			
	 In patients who develop QTc prolongation, consider reducing the dose. 	3		
Relative potency:	 See individual PI for conversion recommendations from prior opioid 			







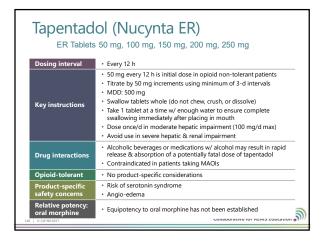
Ν	Morphine Sulfate (MorphaBond) ER Tablets 15 mg, 30 mg, 60 mg, 100 mg			
	Dosing interval	Every 8 h or every 12h		
	Key instructions	 Product information recommends not using as first opioid Titrate using a minimum of 1 – 2 d intervals Swallow tablets whole (do not chew, crush, or dissolve) 		
	Specific Drug interactions	 P-gp inhibitors (e.g. quinidine) may increase the absorption/exposure of morphine sulfate by about two-fold 		
	Opioid-tolerant	 MorphaBond 100 mg tablets are for use in opioid-tolerant patients only 		
	Product-specific safety concerns	• None		
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Dosing interval	• Every 8 h or every 12 h
	 Product information recommends not using as first opioid.
Key instructions	 Titrate using a minimum of 1-2 d intervals
	Swallow tablets whole (do not chew, crush, or dissolve)
Drug interactions	 P-gp inhibitors (e.g., quinidine) may increase absorption/exposure of morphine by ~2-fold
Opioid-tolerant	 100 mg & 200 mg tablet strengths for use in opioid-tolerant patients only
Product-specific safety concerns	• None

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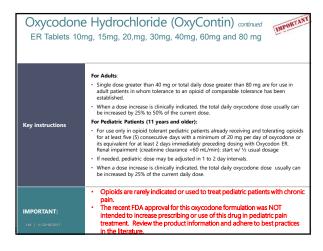




ER Tablets 5 mg, 7.5 mg, 10 mg, 15 mg, 20 mg, 30 mg, 40 mg Visition 1 Pisery 12 h doisng some may benefit from asymmetric (different dose given in AM than in PM) dosing Use 5 mg every 12 h as initial dose in opioid non-tolerant patients & diatents wind leheatic impairment & ereal impairment (creating in the diatent opioid) and the patients profile dose dose dose dose dose dose dose dos	Oxymorphone Hydrochloride (Opana ER)		
Dosing Interval dose given in AM than in PM) dosing Use 5 mg every 12 h as initial dose in opioid non-tolerant patients <i>w</i> indicated by the patients with a patient with a patient a patient with a patient a patient with a patient with a patient with a patient a patient with a patient	ER Tablets 5 mg, 7.5 mg, 10 mg, 15 mg, 20 mg, 30 mg, 40 mg		
Key instructions patients w/ mild hepatic impairment & renal impairment (creatinine clearance <50 mL/min) & patients >65 yrs Key instructions • 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 in increments of 5-10 mg using a minimum of 3-7 d intervals • Contraindicated in moderate & severe hepatic impairment • Alcoholic beverages or medications w/ alcohol may result in absorption of a potentially fatal dose of oxymorphone • No product-specific considerations • Use with caution in patients who have difficulty swallowing or underlying Gl disorders that may predispose to obstruction (e.g. small gastrointestinal lumen) Relative potency: oral morphine • Approximately 3:1 oral morphine to oxymorphone oral dose ratio	Dosing interval		
Key instructions • Take 1 tablet at a time, w/ enough water to ensure complete swallowing immediately after placing in mouth • Tirtate in increments of 5-10 mg using a minimum of 3-7 d intervals • Contraindicated in moderate & severe hepatic impairment • Drug interactions • Alcoholic beverages or medications w/ alcohol may result in absorption of a potentially fatal dose of oxymorphone • Opioid-tolerant • No product-specific considerations • Use with caution in patients who have difficulty swallowing or underlying GI disorders that may predispose to obstruction (e.g. small gastrointestinal lumen) Relative potency: oral morphine • Approximately 3:1 oral morphine to oxymorphone oral dose ratio		patients w/ mild hepatic impairment & renal impairment (creatinine	
		 Swallow tablets whole (do not chew, crush, or dissolve) 	
Contraindicated in moderate & severe hepatic impairment Alcoholic beverages or medications w/ alcohol may result in absorption of a potentially fatal dose of oxymorphone Opioid-tolerant No product-specific considerations Use with caution in patients who have difficulty swallowing or underlying GI disorders that may predispose to obstruction (e.g. small gastrointestinal lumen) Relative potency: oral morphine Approximately 3:1 oral morphine to oxymorphone oral dose ratio	Key instructions		
Drug interactions 		 Titrate in increments of 5-10 mg using a minimum of 3-7 d intervals 	
Originteractions absorption of a potentially fatal dose of oxymorphone Opioid-tolerant • No product-specific considerations Product-specific • Use with caution in patients who have difficulty swallowing or underlying GI disorders that may predispose to obstruction (e.g. small gastrointestinal lumen) Relative potency: • Approximately 3:1 oral morphine to oxymorphone oral dose ratio		 Contraindicated in moderate & severe hepatic impairment 	
Product-specific safety concerns Use with caution in patients who have difficulty swallowing or underlying GI disorders that may predispose to obstruction (e.g. small gastrointestinal lumen) Relative potency: oral morphine Approximately 3:1 oral morphine to oxymorphone oral dose ratio	Drug interactions		
Product-spectric underlying Gl disorders that may predispose to obstruction (e.g. small gastrointestinal lumen) Relative potency: oral morphine oral morphine - Approximately 3:1 oral morphine to oxymorphone oral dose ratio	Opioid-tolerant	No product-specific considerations	
oral morphine • Approximately 3:1 oral morphine to oxymorphone oral dose ratio		underlying GI disorders that may predispose to obstruction (e.g. small	
147 14 CONRECOIT Collaborative for REMS Education 3		Approximately 3:1 oral morphine to oxymorphone oral dose ratio	
	147 © COURE2017 Collaborative for REMS Education ()))		



	e Hydrochloride (OxyContin) ng, 15mg, 20,mg, 30mg, 40mg, 60mg and 80 mg INFO		
Dosing interval	Every 12 h		
	 Initial dose in opioid-naïve and non-tolerant patients: 10 mg every 12 h Titrate using a minimum of 1-2 d intervals 		
	 Hepatic impairment: start w/ ½-½ usual dosage 		
Key instructions	 Renal impairment (creatinine clearance <60 mL/min): start w/ ½ 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	 CYP3A4 inhibitors may increase oxycodone exposure 		
Drug Interactions	 CYP3A4 inducers may decrease oxycodone exposure 		
Opioid-tolerant	 For Adults: Single dose >40 mg or total daily dose >80 mg for use in opioid-tolerant patients only 		
Product-specific	 Choking, gagging, regurgitation, tablets stuck in throat, difficulty swallowing tablet 		
safety concerns	 Contraindicated in patients w/ Gl obstruction 		
Relative potency: oral morphine	Approximately 2:1 oral morphine to oxycodone oral dose ratio		
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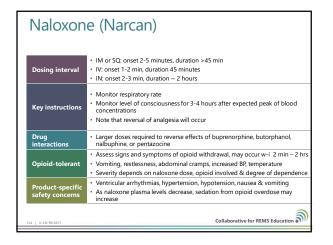
Oxycodo	ne
Hydrochl	oride/Naltrexone
ERICEPSULES 10/1-2	0710e (110XVCa ER), 60/7.2mg, 80/9.6mg
Dosing interval	Every 12 h
Key instructions	 Opioid-naïve & non-tolerant patient is 10/1.2mg, every 12h Total daily dose may be adjusted by 20/24 mg every 2-3 d Swallow capsules whole (do not chew, crush, or dissolve); possible fatal overdose, and naltrexone (possible withdrawal) May open capsule & sprinkle pellets on applesauce for patients who can reliably swallow without chewing, use immediately Do not administer through NG or G tube
Drug interactions	CYP3A4 inhibitors may increase hydrocodone exposure CYP3A4 inducers may decrease hydrocodone exposure
Opioid-tolerant	 Single dose >40/4.8mg or total daily dose >80/9.6mg for use in opioid-tolerant patients only
Product-specific safety concerns	• None
Relative potency: oral morphine	See individual product information for conversion recommendations from prior opioid

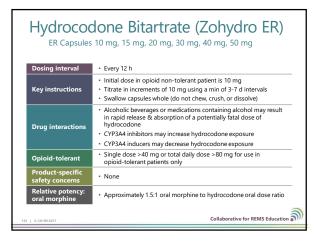


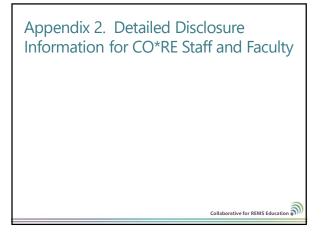
	impairment: initiate therapy with ½ recommended initial dose. If a dose <15 mg needed, use alternative options
Drug interactions	CYP3A4 inhibitors may increase hydrocodone exposure CYP3A4 inducers may decrease hydrocodone exposure
Opioid-tolerant	 A 90 mg tablet, a single dose greater than 60 mg, or a total daily dose > 120 mg are for use in opioid-tolerant patients only
Product-specific safety concerns	• None
Relative potency: oral morphine	 See individual product information for conversion recommendations from prior opioid
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Oxycodon	e (Xtampza ER)	ER Capsules 9 mg, 13.5 mg, 18 mg, 27 mg,
Dosing interval	Every 12 h	36 mg
Key instructions	Opioid naïve and non-tolerant, initiat Titrate using a minimum of 1-2 d inte Take with same amt of food in order Maximum daily dose: 284 mg (8 x 3 established for higher doses May open capsule & sprinkle pellets reliably swallow without chewing, use May also be administered through a Hepatic impairment: initiate therapy Renal impairment creatinine clearant approach	rvals to ensure consistent plasma levels mg), safety of excipients not on applesauce for patients who car immediately NG or G feeding tube at 1/3 to ½ usual dose
orug interactions	 CYP3A4 inhibitors may increase hydro CYP3A4 inducers may decrease hydro 	
Opioid-tolerant	 A single dose >36 mg or a total daily dose >72 mg for opioid-tolerant patients only 	
Product-specific safety concerns	None	
Relative potency: oral morphine	There are no established conversion clinical trials	ratios for Xtampza ER, defined by









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