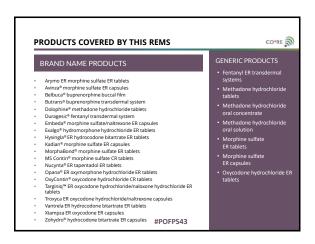






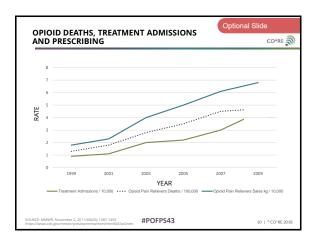


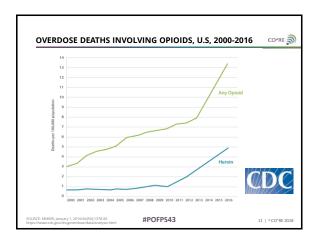
ACKNOWLEDGEMENT	CC
Presented by the American Osteopathic Association, a	
member of the Collaborative for Risk Evaluation and	
Mitigation Strategy (REMS) Education (CO*RE), eleven	
interdisciplinary organizations working together to	
improve pain management and prevent adverse	
outcomes.	
This educational activity is supported by an independent	1
educational grant from the Extended-Release/Long-	-
Acting (ER/LA) Opioid Analgesic REMS Program	1
Companies. Please see this document for a listing of the	
member companies. This activity is intended to be fully	- 1
compliant with the ER/LA Opioid Analgesic REMS	
education requirements issued by the US Food and Drug	
Administration.	-

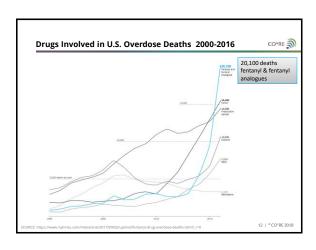


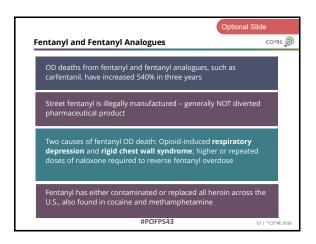


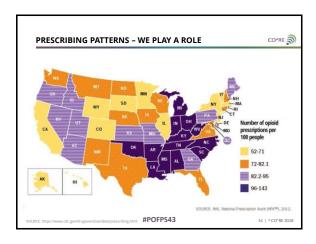


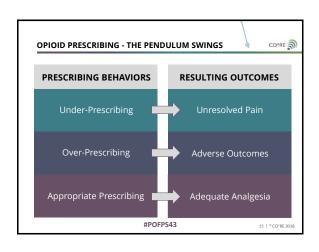


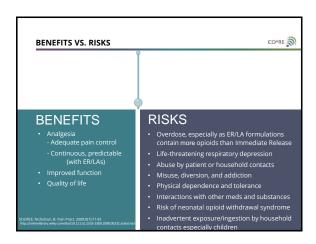


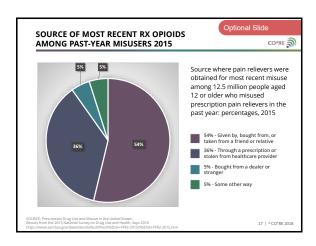


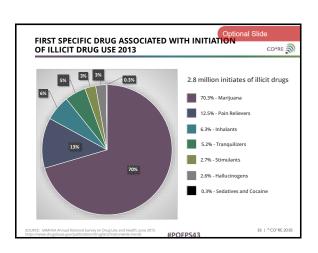




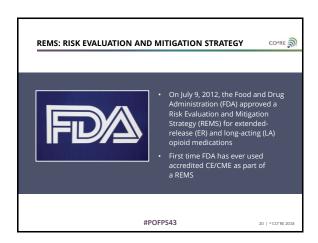


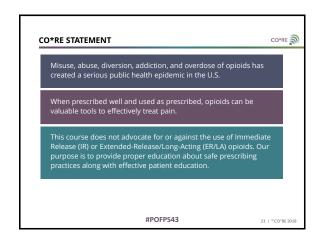


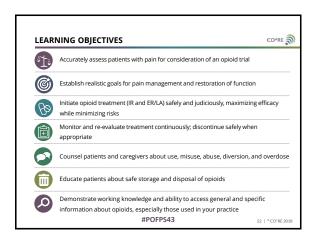


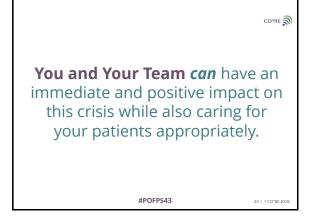


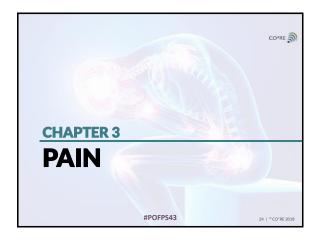


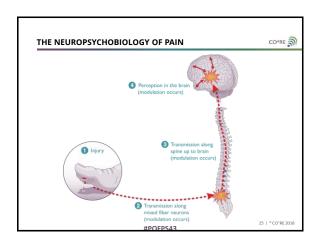


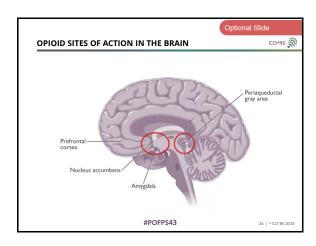


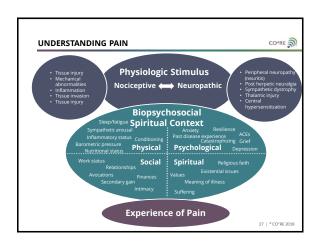


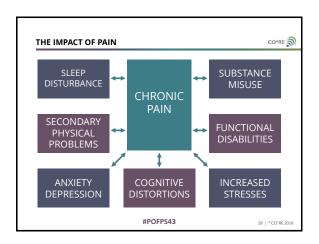


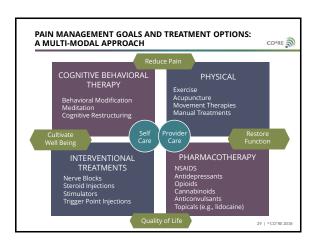


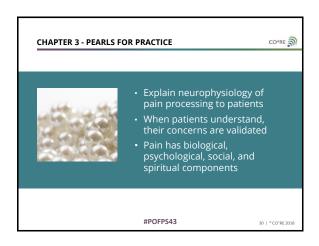


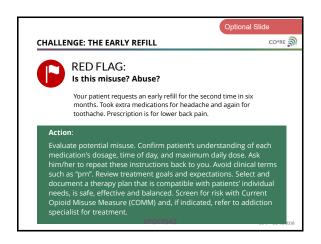


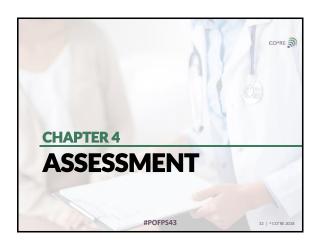


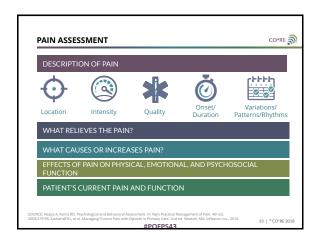




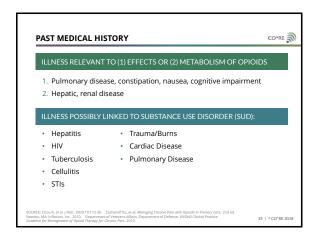


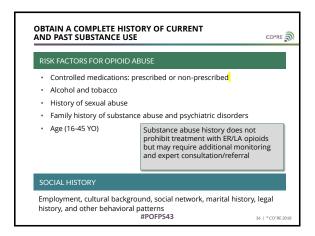


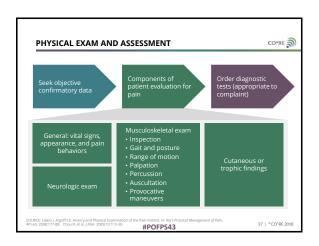


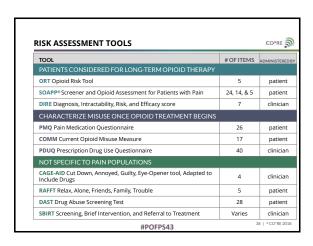


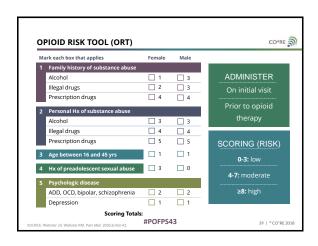


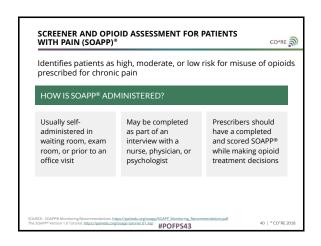


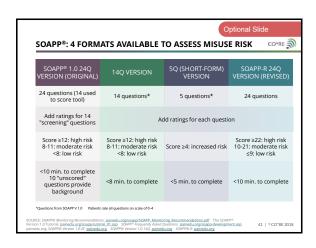


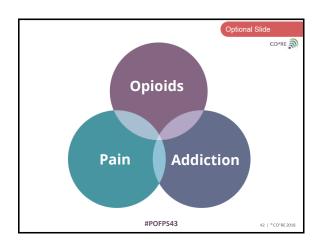


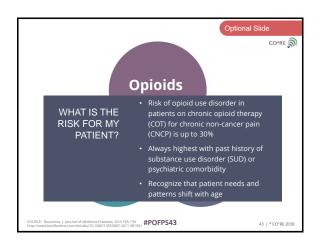


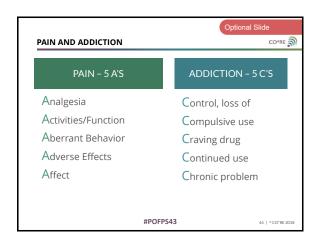


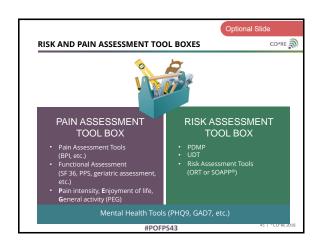








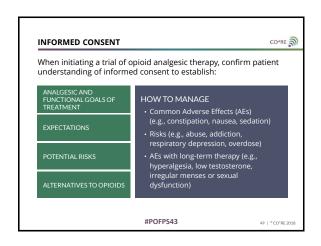


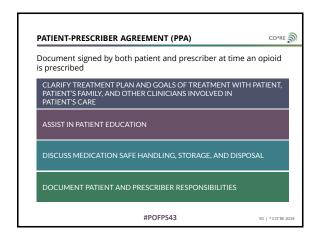


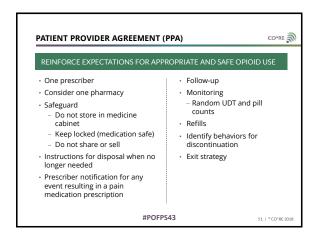


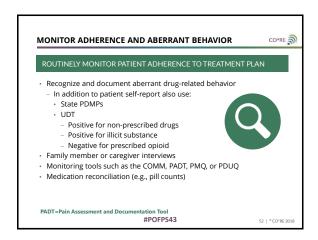


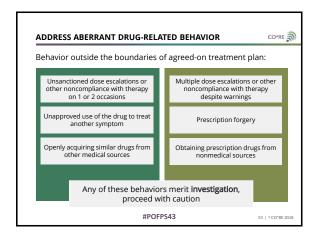
Begin with IR	
Prescribe the lowest effective dosage	
Use caution at any dosage, but particularly when	
 Increasing dosage to ≥50 morphine milligram equence carefully justify a decision to titrate dosage to ≥90 	
For acute pain, prescribe lowest effective dose of IRs, r	no more than needed
Re-evaluate risks/benefits within 1 - 4 weeks of initiation	on or dose escalation
Re-evaluate risks/benefits every 3 months; if benefits optimize other therapies, work to taper and discontinu	
Link to the Guideline:	
https://www.cdc.gov/drugoverdose/prescribing/provid	lers.html
ancer pain, hospice, and palliative care patients are	not covered by
	Prescribe the lowest effective dosage Use caution at any dosage, but particularly when Increasing dosage to ≥50 morphine milligram equal carefully justify a decision to titrate dosage to ≥90. For acute pain, prescribe lowest effective dose of IRs, Re-evaluate risks/benefits within 1 - 4 weeks of initiating Re-evaluate risks/benefits every 3 months; if benefits optimize other therapies, work to taper and disconting Link to the Guideline: https://www.cdc.gov/drugoverdose/prescribing/provious

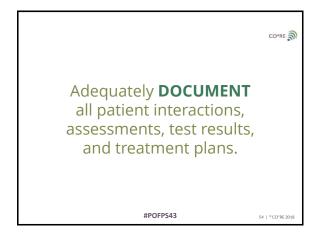




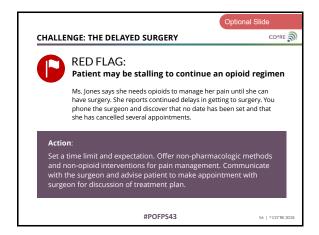


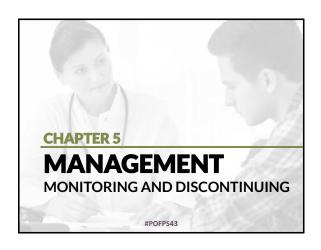




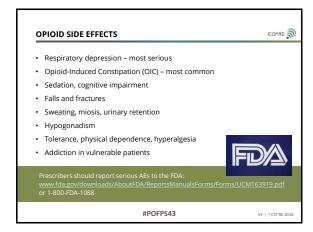


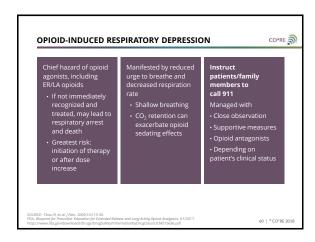


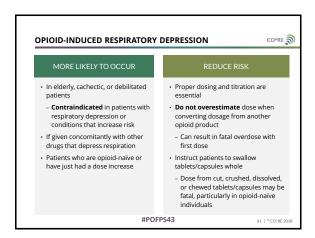


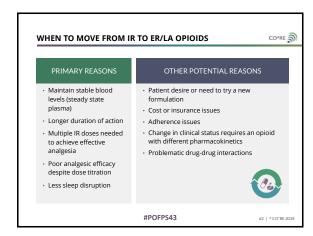


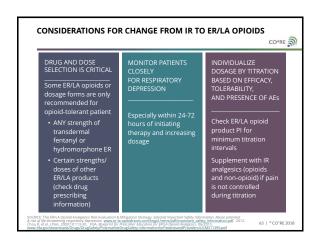


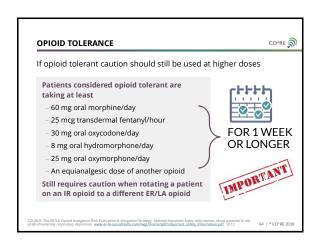


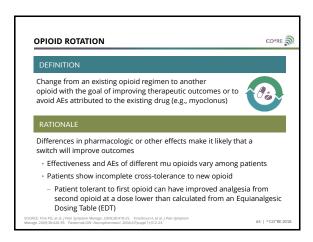


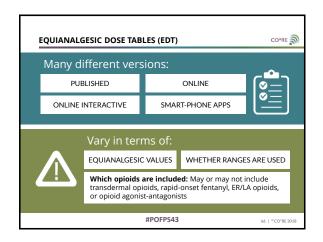


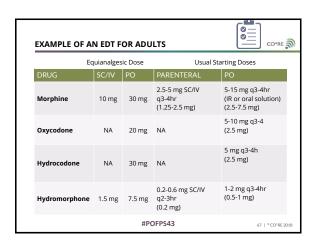


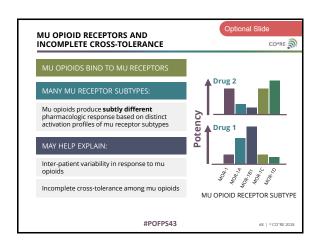


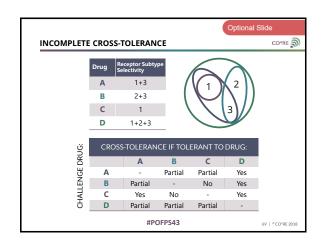


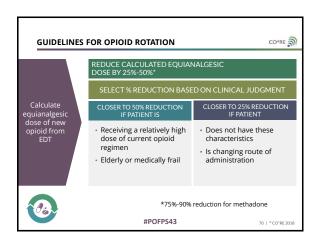


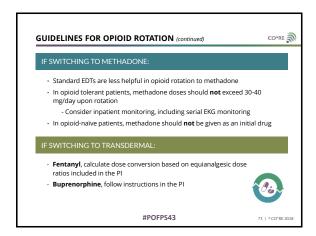




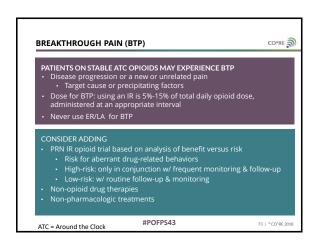


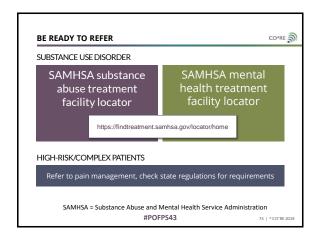


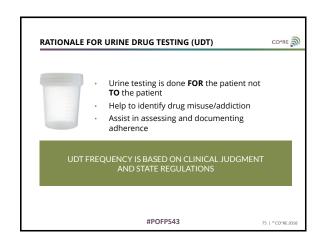


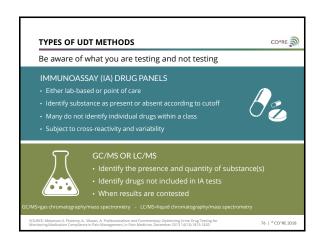


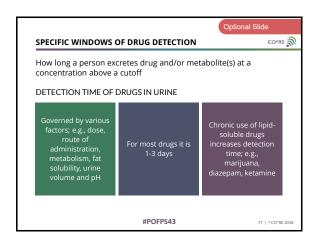
UIDELINE FOR	ОРІО	ID ROTATIO	N: SUMMA		Optional Slide CO*RE
VALUES FROM EDT*		ENT OPIOID VALUES	"SOLVE" F	OR X	AUTOMATICALLY REDUCE DOSE
Value of Current Opioid Value of New Opioid	Cu X	Hr Dose of rrent Opioid Amount of ew Opioid	Equianalgesi Dose of New		By 25%-50% [†]
Frequently asse initial response		Titrate do opioid to outco	optimize	reso titra	ulate supplemental cue dose used for tion at 5%-15% of otal daily dose‡



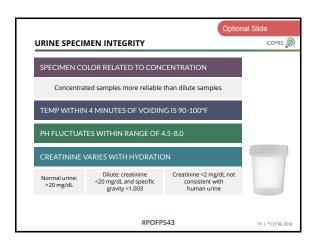


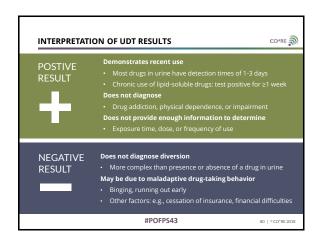


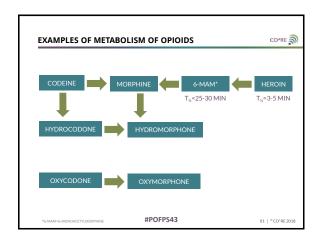




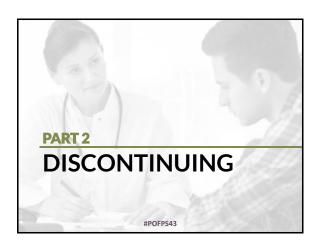
		Optional Slide
SPECIFIC WINDOWS O	F DRUG DETECTION (continued) CO*R
Drug	How soon after taking drug will there be a positive drug test?	How long after taking dru will there continue to be positive drug test?
Marijuana/Pot	1-3 hours	1-7 days
Crack (Cocaine)	2-6 hours	2-3 days
Heroin (Opiates)	2-6 hours	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

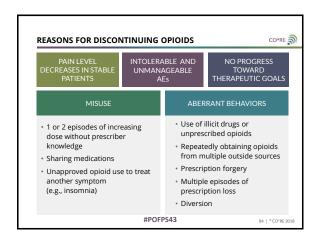


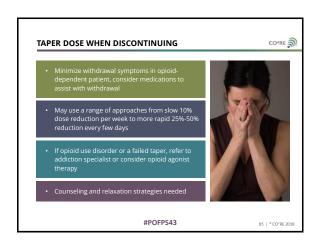


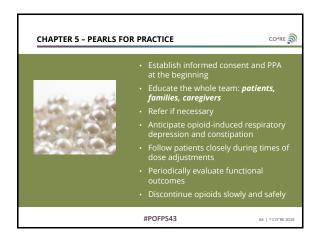


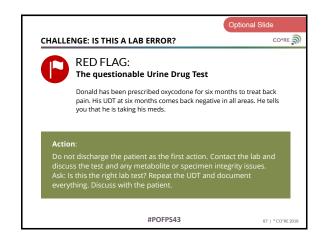


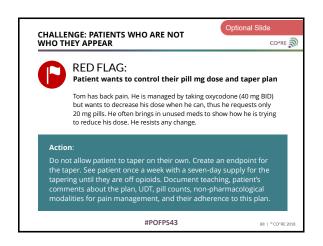


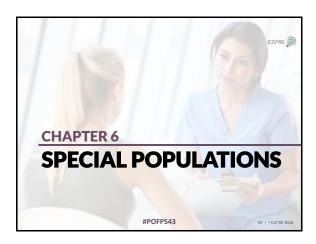


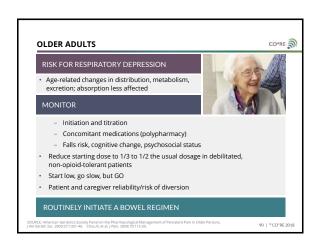


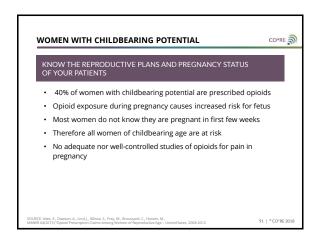






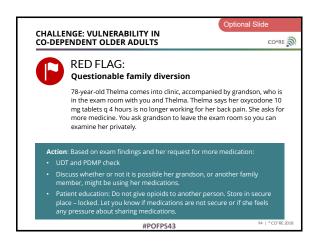


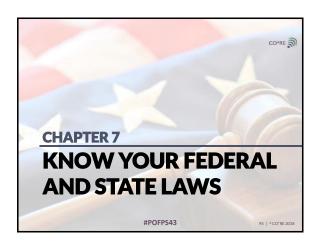


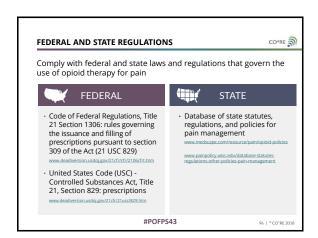


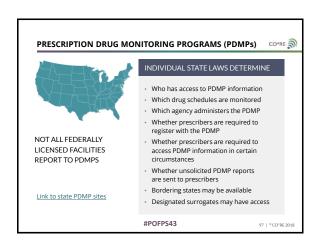
THE PREGNANT PATIENT	co•re ॢ்
Potential risk of opioid therapy to the newborn is neonatal opioid withdrawal syndrome	
GIVEN THESE POTENTIAL RISKS, CLINICIANS SHOULD:	
Counsel women of childbearing potential about risks and benefits of therapy during pregnancy and after delivery Encourage minimal/no opioid use during pregnancy, unless potentia outweigh risks to fetus Refer to a high risk OB/Gyn who will ensure appropriate treatment for	l benefits
If chronic opioid therapy is used during pregnancy, anticipate and manage risks to the patient and newborn	
If using opioids on a daily basis, consider methadone or buprenorphine	
RCE: Chou R, et al. / Pain. 2009;10:113-30. #POFPS43	92 ° CO*RE 2018

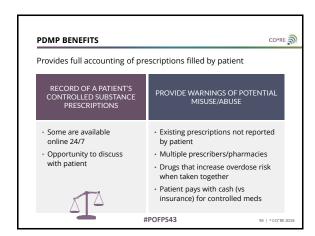


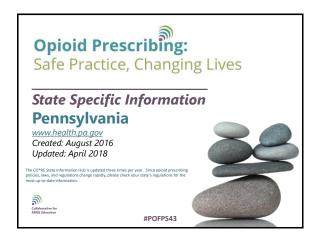


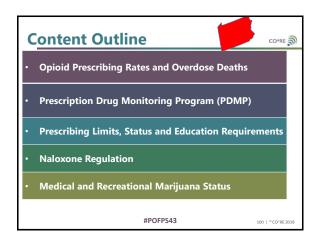


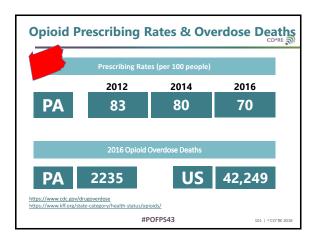




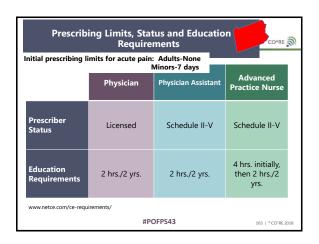




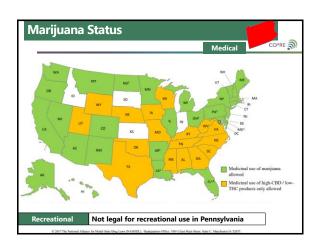




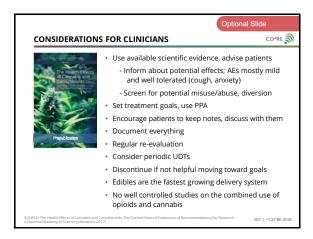
	n COMPRE
	• PA PDMP Program www.doh.pa.gov/pdmp
	 Administered by Department of Health
General	Schedule II-V are monitored
	 Dispensers and prescribers are required to register and input data
	 Before prescribing, there is an obligation to review under certain circumstances
Access	 Prescribers, dispensers, law enforcement, judicial officers, patients, medical examiner, licensing boards, Department of Drug and Alcohol Programs
	 Prescribers can authorize a registered delegate
	 Must be entered into PDMP by the next business day after dispensing
	Unsolicited reports/alerts are sent to law enforcement and licensing
	boards
Reporting	Pennsylvania does share data with other states' PDMP
Reporting	

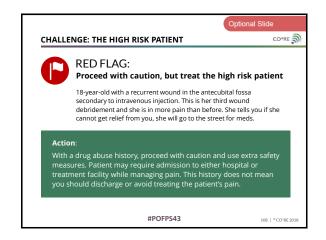


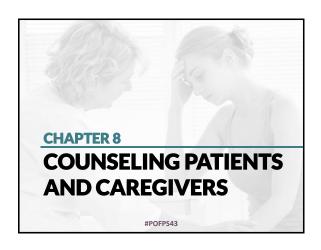


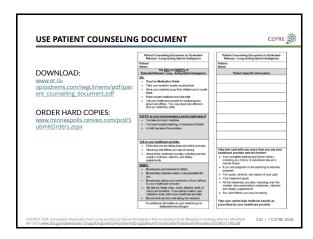


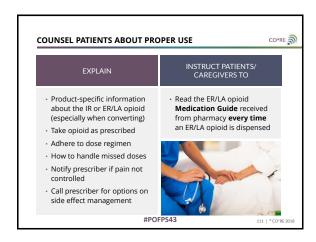


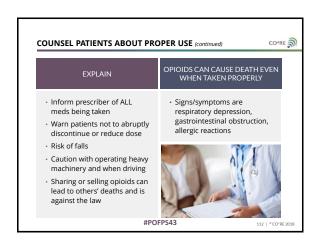








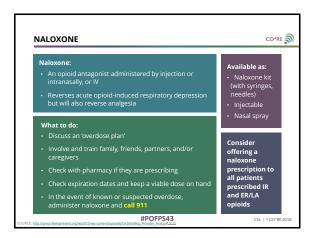


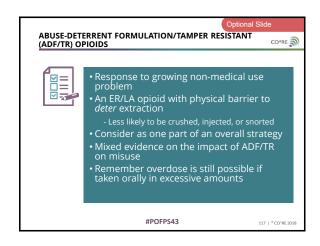


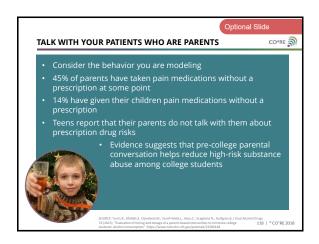
EXPLAIN	OPIOIDS SHOULD BE STORED IN A SAFE AND SECURE PLACE
Tell patients and caregivers, medications must be kept in a locked container Will periodically assess for	Away from children, family members, visitors, and pets Safe from theft
benefits, side effects, and continued need for IR/ER/LA opioids	Opioids are scheduled under Controlled Substances Act and can be misused and abused
 Need for re-evaluation of underlying medical condition if the clinical presentation changes over time 	

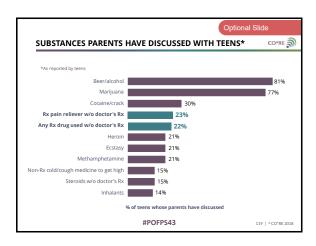
WARN PATIENTS	CO*RE
Never break, chew, crush, or snort an oral ER/LA tablet/cap or cut or tear patches prior to use	sule,
 May lead to rapid release of ER/LA opioid causing overdose and death 	×
 If unable to swallow a capsule whole, refer to PI to determine if appropriate to sprinkle contents on applesauce or administer via feeding tube 	33.5
Use of CNS depressants or alcohol with ER/LA opioids can co	ause
 Use with alcohol may result in rapid release and absorption of a potentially fatal opioid dose – "dose dumping" 	*
Other depressants include sedative-hypnotics and anxiolytic illegal drugs	s, Y
#POFPS43	114 °CO*RE:



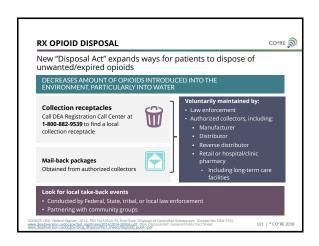




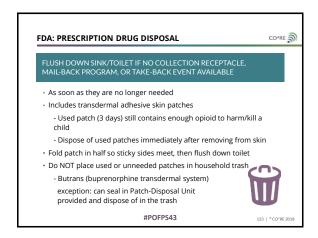


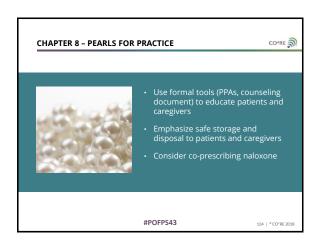




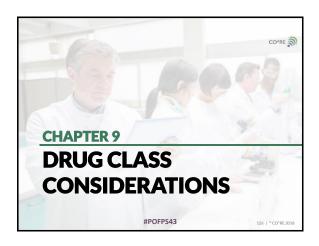


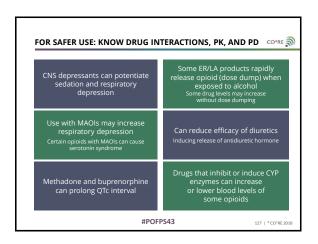


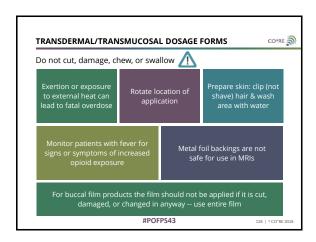


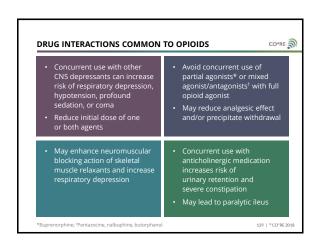


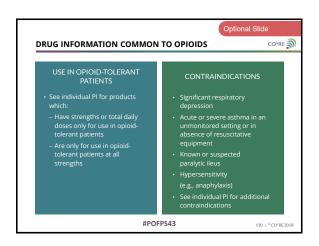


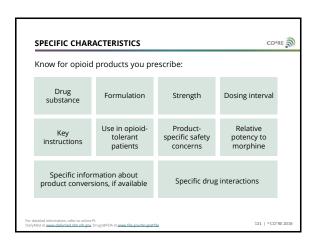


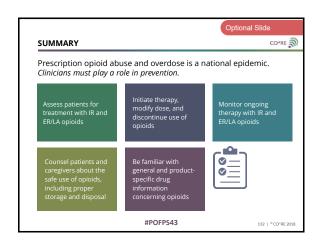


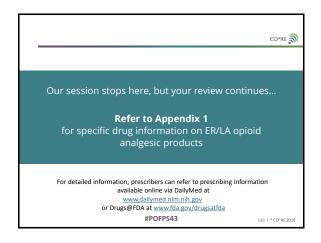












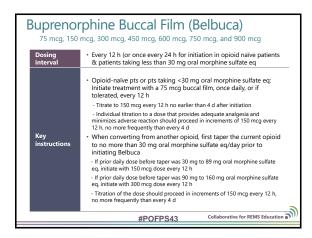
YOUR PARTICIPATION IS IMPORTANT	co⁴re 🎒
Thank you for completing the post-activity assessment for this CO*RE session	
Your participation in this assessment allows CO*R de-identified numbers to the FDA	E to report
A strong show of engagement will demonstrate that cli voluntarily taken this important education and are co patient safety and improved outcomes	
THANK YOU!	
#POFPS43	134 ° CO*RE 2018



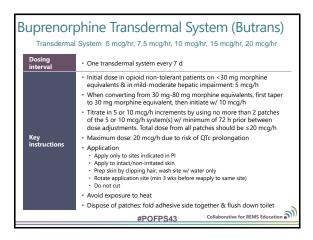


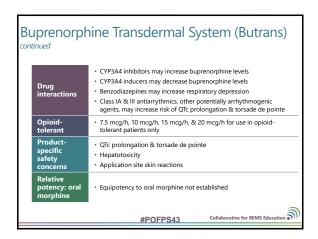
Morphine Sulfate ER Tablets (Arymo ER) Capsules 15 mg, 30 mg, 60 mg			
Dosing interval	Every 8 or 12 hours		
Key instructions	Initial dose in opioid-naïve and opioid non-tolerant patients is 15 mg every 8 or 12 hours Dosage adjustment may be done every 1 to 2 days. Take one tablet at a time, with enough 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 of disorders that may predispose them to obstruction, such as a small gastrointestinal lumen.	9	

Morphine Sulfate ER Capsules (Avinza) Capsules 30 mg, 45 mg, 60 mg, 75 mg, 90 mg, and 120 mg			
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)		
	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 of morphine by ~2-fold 		
Opioid-tolerant	90 mg & 120 mg capsules for use in opioid-tolerant patients only		
Product- specific safety concerns	• None		
* MDD=maximum daily d	lose; P-gp= P-glycoprotein #POFPS43 Collaborative for REMS Education		



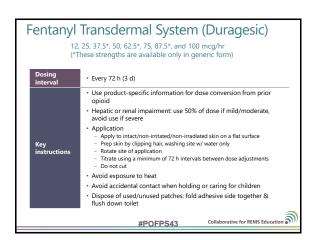
Buprenorphine Buccal Film (Belbuca) continued			
Key	 Maximum dose: 900 mcg every 12 h due to the potential for QTc prolongation Severe Hepatic Impairment: Reduce the starting and incremental dose by half that of patients with normal liver function 		
instructions	 Oral Mucositis: Reduce the starting 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	CYP3A4 inducers may decrease buprenorphine levels		
Interactions	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- Specific Safety Concerns	QTc prolongation and torsade de pointes Hepatotoxicity		
Relative Potency: Oral	Equipotency to oral morphine has not been established.		





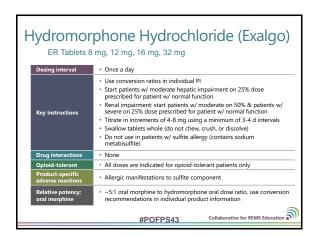
_		
	ethador ntinued	ne Hydrochloride Tablets (Dolophine)
	Opioid- tolerant	• Refer to full PI
specific safety • Cleara		QTc prolongation & torsade de pointe Peak respiratory depression occurs later & persists longer than analyesic effect Clearance may increase during pregnancy False-positive UDT possible
	Relative potency: oral morphine • Varies depending on patient's prior opioid experience	
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Methado	one Hydrochloride Tablets (Dolophine)
Dosing interval	• Every 8 to 12 h
Key instructions	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 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 induces may decrease methadone levels - CYP.450 induces may decrease methadone levels - CYP.450 induces may decrease 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	
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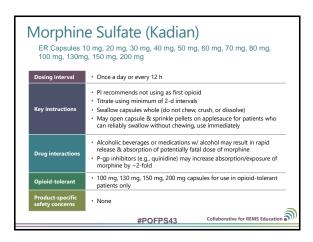
ntinued		
	Specific contraindications:	
	Patients who are not opioid-tolerant	
Key instructions	Management of Acute or intermittent pain, or patients who require opioid analgesia for a short time Post-operative pain, out-patient, or day surgery Mild pain	
	CYP3A4 inhibitors may increase fentanyl exposure	
Drug interactions	 CYP3A4 inducers may decrease fentanyl exposure 	
Drug 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: oral morphine	See individual PI for conversion recommendations from prior opioid	
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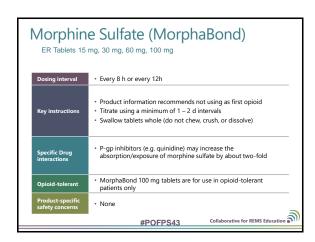
Morphine Sulfate ER-Naltrexone (Embeda) Capsules 20 mg/0.8 mg, 30 mg/1.2 mg, 50 mg/2 mg, 60 mg/2.4 mg, 80 mg, 3.2 mg, 100 mg/4 mg			
Dosing interval	Once a day or every 12 h		
	Initial dose as first opioid: 20 mg/0.8 mg		
	Titrate using a minimum of 1-2 d intervals		
M!	Swallow capsules whole (do not 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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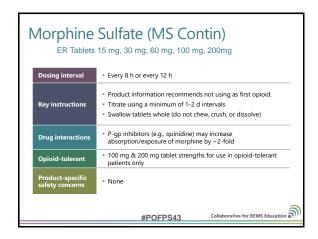


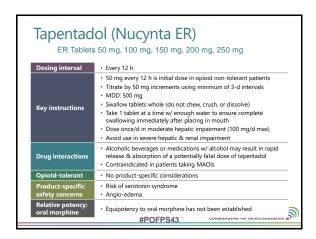
-	odone Bitartrate (, ,
Dosing interval	Once a day	
Diploid-naïve patients: initiate treatment with 20 mg orally once daily. During litration, adjust the dose in increments of 10 mg to 20 mg eve days until adequate analgesia is achieved. Swallow tablets whole (do not chew, crush, or dissolve). Consider use of an alternative analgesic in patients who have difficult swallowing or have underlying gastrointestinal disorders that may pre them to obstruction. Take one tablet at a time, with enough water to ensure complete swal immediately after placing in the mouth. Use 12/2 of the initial dose and monitor closely for adverse events, surespiratory depression and sedation, when administering Hysingla ER patients with severe hepatic impairment or patients with moderate to renal impairment.		nents of 10 mg to 20 mg every 3 to 5 L. h, or dissolve). n patients who have difficulty stinal disorders that may predispose atter to ensure complete swallowing osely for adverse events, such as n administering Hysingla ER to
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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, bradyarrhythmias, 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	,,,,,,	



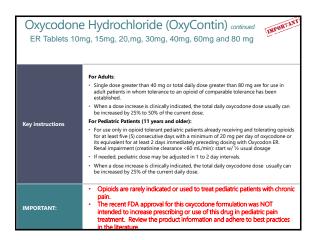






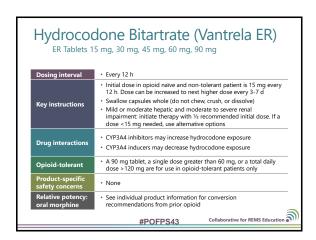
Oxymorphone Hydrochloride (Opana ER)		
ER Tablets !	5 mg, 7.5 mg, 10 mg, 15 mg, 20 mg, 30 mg, 40 mg	
Dosing interval	Every 12 h dosing, some may benefit from asymmetric (different dose given in AM than in PM) dosing	
	Use 5 mg every 12 h as initial dose in opioid non-tolerant patients & patients w/ mild hepatic impairment & renal impairment (creatinine clearance <50 mL/min) & patients >65 yrs	
	 Swallow tablets whole (do not chew, crush, or dissolve) 	
Key instructions	 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	
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	
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	
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Oxycodone Hydrochloride (OxyContin) ER Tablets 10mg, 15mg, 20,mg, 30mg, 40mg, 60mg and 80 mg INFO		
Dosing interval	Every 12 h	
Key instructions	 Initial dose in opioid-naïve and non-tolerant patients: 10 mg every 12. Titrate using a minimum of 1-2 d intervals Hepatic impairment: start w/ ½-½ usual dosage Renal impairment (creatinine clearance <60 mL/min): start w/ ½ usual Consider other analgesics in patients w/ difficulty swallowing or underly 	dosage _r ing Gl
	disorders that predispose to obstruction. Swallow tablets whole (do not or dissolve) Take 1 tablet at a time, w/ enough water to ensure complete swallowing after placing in mouth	
Drug interactions	CYP3A4 inhibitors may increase oxycodone exposure 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 safety concerns	Choking, gagging, regurgitation, tablets stuck in throat, difficulty swallowing tablet Contraindicated in patients w/ GI obstruction	
Relative potency: oral morphine	Approximately 2:1 oral morphine to oxycodone oral dose ratio	
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Oxycodone Hydrochloride/Naloxone		
Hydrochloride (Targiniq ER)		
ER Tablets 10 mg/5mg, 20 mg/10mg, 40 mg/20mg		
Dosing interval	Every 12 h	
	Opioid-naïve patients: initiate treatment w/ 10mg/5mg every 12 h	
	Titrate using min of 1-2 d intervals	
	 Do not exceed 80 mg/40 mg total daily dose (40 mg/20 mg q12h) 	
	May be taken w/ or without food	
Key instructions	 Swallow whole. Do not chew, crush, split, or dissolve: this will release oxycodone (possible fatal overdose) & naloxone (possible withdrawal) 	
	 Hepatic impairment: contraindicated in moderate-severe impairment. In patients w/ mild impairment, start w/ ½-½ usual dosage 	
	 Renal impairment (creatinine clearance <60 mL/min): start w/ ½ usual dosage 	
Drug	CYP3A4 inhibitors may increase oxycodone exposure	
interactions	CYP3A4 inducers may decrease oxycodone exposure	
Opioid-tolerant	 Single dose >40 mg/20 mg or total daily dose of 80 mg/40 mg for opioid- tolerant patients only 	
Product-specific safety concerns	Contraindicated in patients w/ moderate-severe hepatic impairment	
Relative potency: oral morphine	See individual PI for conversion recommendations from prior opioids	

Oxycodone		
Hydrochl	oride/Naltrexone	
TIVOITOCITI	mg, 20124mg 30/3.6mg 40 /4/8 mg, 60/7.2mg, 80/9.6mg	
Dosing interval	Every 12 h	
	Opioid-naïve & non-tolerant patient is 10/1.2mg, every 12h Total daily dose may be adjusted by 20/2.4 mg every 2-3 d Swallow capsules whole (do not chew, crush, or dissolve); possible	
Key instructions	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	



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, initial Titrate using a minimum of 1-2 d in- Take with same amt of food in order Maximum daily dose; 288 mg (8 × 36 established for higher dose; May open capsule & sprinkle pellets reliably swallow without chewing, us May also be administered through a Hepatic impairment: initiate therapy Renal impairment: creatinine clearan approach	ervals to ensure consistent plasma levels mg), safety of excipients not on applesauce for patients who can immediately MG or G feeding tube at 1/3 to ½ usual dose
Drug interactions	CYP3A4 inhibitors may increase hydrocodone exposure CYP3A4 inducers may decrease hydrocodone exposure	
Opioid-tolerant	A single dose >36 mg or a total dail patients only	y dose >72 mg for opioid-tolerant
Product-specific safety concerns	• None	
Relative potency: oral morphine	There are no established conversion clinical trials	ratios for Xtampza ER, defined by

Naloxone (Narcan)		
Dosing interval	IM or SQ: onset 2-5 minutes, duration > 45 min IV: onset 1-2 min, duration 45 minutes IN: onset 2-3 min, duration ~ 2 hours	
Key instructions	Monitor respiratory rate Monitor level of consciousness for 3-4 hours after expected peak of blood concentrations Note that reversal of analgesia will occur	
Drug interactions	Larger doses required to reverse effects of buprenorphine, butorphanol, nalbuphine, or pentazocine	
Opioid-tolerant	Assess signs and symptoms of opioid withdrawal, may occur w-i 2 min – 2 hrs Vomiting, restlessness, abdominal cramps, increased BP, temperature Severity depends on naloxone dose, opioid involved & degree of dependence	
Product-specific safety concerns	Ventricular arrhythmias, hypertension, hypotension, nausea & vomiting As naloxone plasma levels decrease, sedation from opioid overdose may increase	
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