Breaking Barriers: Pain & Addiction Updates

Mark Garofoli, PharmD, MBA, BCGP, CPE, CTTS

Disclosures

I have nothing to disclose concerning possible financial relationships with ineligible companies that may have a direct or indirect interest in the subject matter of this presentation.



2

Abbreviations

- MOUD (Medications for Opioid Use Disorder)
- MME (Morphine Milligram Equivalent)
- PDMP (Prescription Drug Monitoring Program)
- CS (Controlled Substance)
- UDM (Urine Drug Monitoring)
- ADF (Abuse Deterrent Formulation)



1

3

Personal Facts...

I have personal and professional opinions on pain management, but some things are better left NSAID.



Learning Objectives

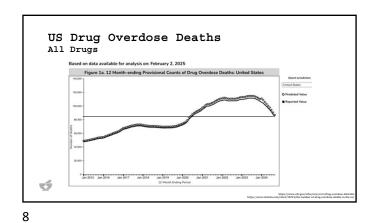
- 1. Recall the pharmacological properties of buprenorphine.
- 2. Recall controlled substance "Red Flags" for prescribers and dispensers based on the National Opioid Settlement.
- 3. Identify the available opioid antagonist products currently available in the United States.
- 4. Recall the CDC Opioid Guideline Update twelve recommendations.
- 5. Identify pain management medications that are potentially inappropriate for utilization in older adults based on the AGS Beers Criteria
- 6. Recall the pharmacological properties of the most common new pain medications.

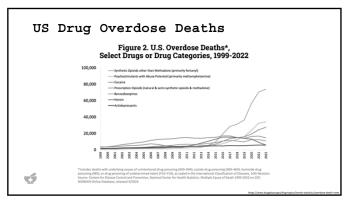
Agenda

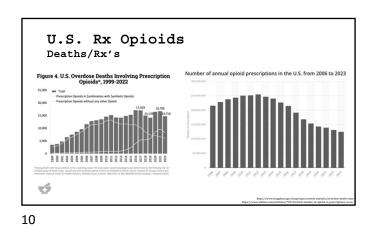
- 1. Intro
- 2. Addiction Updates
- 3. Pain Management Best Practices
- 4. Opioid Antagonists
- 5. CDC Opioid Guideline Update
- 6. Beers List Update
- 7. Newer Pain Medications



Substance	~US Annual Deaths			
"Drugs"	80,000			
Alcohol	150,000			
Tobacco	500,000			







9

Heroin Headlines

Centers for Disease Control and Prevention

Morbidity and Mortality Weekly Report

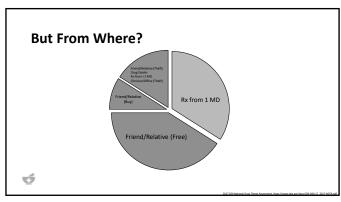
March 17, 2017

Characteristics of Initial Prescription Episodes and Likelihood of
Long-Term Opioid Use — United States, 2006–2015

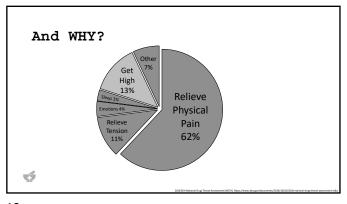
Aud Mah. Comp. J. Hone, Namol. J. Budger, C. Marin, Ramal. Paper

T5% of Heroin Utilizers Started

with Prescription Opioids



11 12









15 16

The West Virginia Way Almost Heaven...

- Mother's Day
- Proud. Hard Working. Resilient.
- Jack Dempsey
- Jennifer Garner
- Brad Paisley
- Supersize Me (Movie)
- We are Marshall (Movie)
- Hidden Figures (Movie)
- Take Me Home, Country Roads!



Addiction Updates MOUDs

Ú



Buprenorphine Pain MCG Narrative Reviews Frontline Perspectives on Bupren Management of Chronic Pain Benefit-Risk Analysis of Buprenorphine for Pain Management *Pacific Pain Medicine Cornollams, Encintus, CA, USA; *Dission of Pain Medicine, Starford Health Care, Redwood Cr; University School of Pharmacy Murpanson, WY, USA; *Wise Forust Pain Museument, Winston-Salen, NC, USA

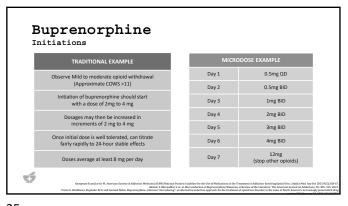
20

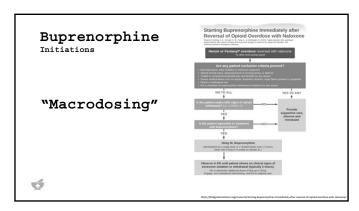
Mu Opioid Receptor Affinity 0.216 ■ Affinity: "Thermodynamic Chemical Attraction to Receptor" ■ NOT Intrinsic Activity (NOT effect) Buprenorphine Respiratory Depression "Ceiling Effect" **Concerns** · Relapses · Street PolyRx • Children Log Dose

21 22

However, did these studies involve opioid-naïve or opioid-experienced Buprenorphine Receptor Saturation prenorphine Receptor Occupano Ó

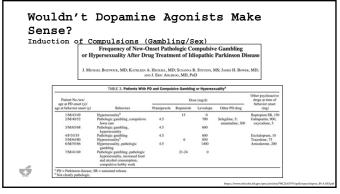
Buprenorphine Morphine Milligram Equivalent Factor March 2016 CDC Chronic Pain Opioid Guidelines
 Buprenorphine MME Factor: 10 • January 2017 CDC Updates • Buprenorphine MME Factor: 30 • 2018 CDC Updates • Buprenorphine MME Factor: Unlisted

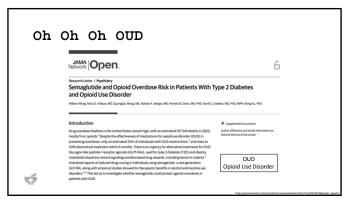




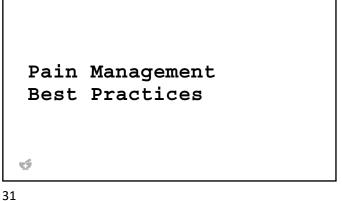
MAT & MATE Acts MAT Act: Buprenorphine X-Waiver eliminated • Prescribers only need an active DEA License • There are no limits on the number of patients for a prescriber MATE Act: DEA renewals (q 3 years) require 8-hour Substance Use Disorder (SUD) training

27 28





29 30



Best Practices Patient Education

Patient & Provider Agreements/Contracts

Treatment Goals (Pain Reduction, Improved Function, & End of Therapy)

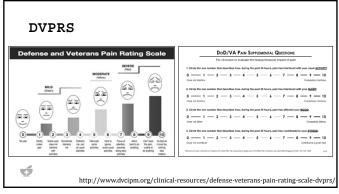
Proper medication storage and disposal Treatment Selection Mental Health Assessments (Psychological Evaluation & Opioid Risk Screening)
 Drug Interaction Review (Drug-Drug, PD, PK, & PGx)
 Naloxone Education Adherence & Diversion Monitoring Pill Counts
 Urine Drug Monitoring
 Prescription Drug Monitoring Program (PDMP) Review
 Monitoring for Controlled Substance Red Flags

32

Pain Management Goals Pain Reduction & Function Improvement	
Pain = 5 th Vital Sign ???	S Specific M Measurable
Analgesic ???	A Attainable R Relevant
The goal is NOT necessarily to eliminate pain	T Time-Bound
> The goal is to Improve Function 8	k Reduce Pain
	

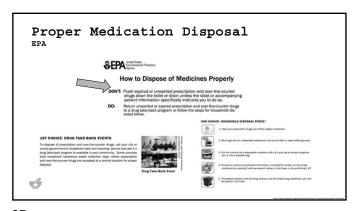
Favorite 1 to 10 Pain Scale Responses 20 Yes 8.5 3.14

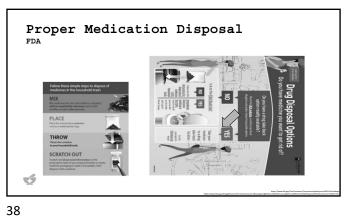
33 34



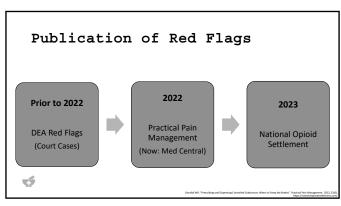


35 36

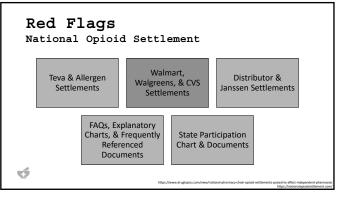








39 40



Red Flags
National Opioid Settlement

• A Red Flag shall not automatically mean prescription is illegitimate, yet must be resolved

• Resolution → RPh believes legitimate diagnosis & scope

• Resolutions & Rejections → Documentation

41 42

/

Red Flags

National Opioid Settlement

Red Flags (Patient)

- 1. CS-2 Refill Too Soon by > 3 Days
- 2. Doctor Shopping (CS > 4 Previous Prescribers of Separate Practices over 6 months)
- 3. Prescriber has > 10 documented CS refusals within 6 months
- 4. Previous 3 other CS from multiple prescribers with overlapping days within 30 days
- 5. Distance between patient's residence and pharmacy > 50 miles
- 6. Distance between patient's residence and prescriber > 100 miles
- Previous 2 CS refusals within 30 days
- 8. Cash pay despite having prescription insurance coverage
- 9. >/= 3 Patients appear together for the same CS 10. Slang Term Medication Request (e.g., "Mallinckrodt blues," "M's", or "the blue pill")
- 11. Patient appears visibly altered, intoxicated, or incoherent



44

Red Flags

National Opioid Settlement

RED FLAGS (PRESCRIPTION)

- 1. Fails to meet law requirements
- 2. Misspellings
- 3. Atypical Abbreviations
- 4. Multiple Colors of Ink or Multiple Handwritings

RED FLAGS (PRESCRIBER)

OBRA '90

- 1. CS-2 + Benzodiazepine + Carisoprodol
- 2. Prescriber has no office within 50 miles of pharmacy
- 3. Prescriber utilizes preprinted or stamped prescription pads

43

Corresponding Legal Responsibility

Title 21 Code of Federal Regulations

§1306.04 (a) Purpose of issue of prescription

- · A prescription for a controlled substance to be effective must be issued for a legitimate medical purpose by an individual practitioner acting in the <u>usual course of his professional practice</u>
- >The responsibility for the proper prescribing and dispensing of controlled substances is upon the prescribing practitioner, but a corresponding responsibility rests with the pharmacist who fills the prescription



45

46

Patient Counseling At Its Best

•I need you to sign here.

Do you have any questions?

This medication might turn your urine purple. *Pause* Do you have any questions?

47

Avoiding Stigmatic Communications

Stigmatic Terminology	Recommended Terminology
Aberrant Behaviors	Using Medication Not as Prescribed or Intended
Abuse	Non-Medical Use
Addict	Person with Substance-Use Disorder
Clean/Dirty Urine	Negative versus Positive, or Unexpected

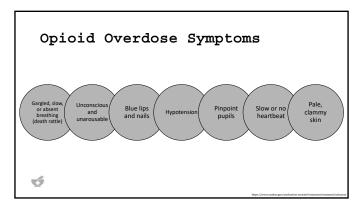
It is an expected best practice, to not only offer

patient counseling as required by OBRA 1990 law,

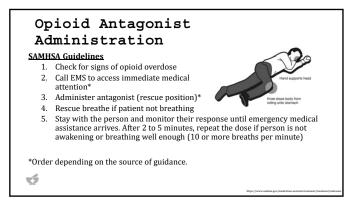
but to proactively counsel (discuss) any and all

dispensed prescriptions with respective patients.

Opioid Antagonists

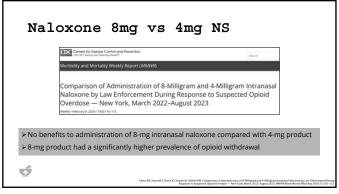


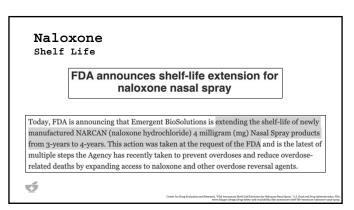
49 50





51 5





53 54

Location & Individuals

- Anyone can be trained to save a life with an opioid antagonist, yet what happens if there is none available on scene?
- Consider storing antagonist alongside AEDs, which are commonly located in public areas (malls, libraries, restaurants, and even airplanes)
- Location, Location, LOCATION!!!

55



Harm Reduction

WEBER-RENEW

Bloods bland's Center for Norm

Beduction and Recovery Services

General Ambrosia Barmide

Call War

Assumed by Para Service Barbandee

56

Product	Dose	Directions	Rx/OTC
Generic Injectable	0.4mg	Inject 1mL in shoulder/thigh, may repeat in 2 to 3 min Use 3mL 23G syringe and 1" needle	Rx
Zimhi*	5mg	Inject in thigh, may repeat in 2 to 3 minutes	
Auto Injector	10mg	Military Utilization	
Generic Intranasal (Kits)	1mg	Spray 1mL (half of syringe) in each nostril with atomizer, may repeat in 2 to 3 minutes	
Narcan® Nasal Spray + Generic	4mg	Corporate one postrile	Rx & OTC
Kloxxado® Nasal Spray	8mg	Spray into one nostril; may repeat in 2 to 3 minute with 2 nd device in alternate nostril	Rx
Rivive*	3mg	Will 2 device harman and a	отс
Pocket Naloxone*	1 swab	Swab one nostril, may repeat in 2 to 3 minutes	отс

Nalmefene
Pharmacology

• Compared to Naltrexone

• Longer t ½ (~8 Hours)

• Greater PO bioavailability

• Similar Mu binding affinity

• Compared to Naloxone

• 5x Mu binding affinity

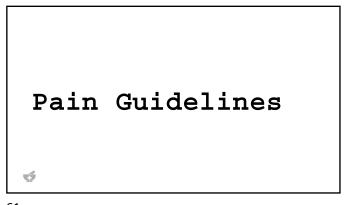
57 58

Nalmefene History

- 1975: Discovered
- • 1995: FDA approved (Revex™) parenteral opioid overdose reversal
- 2008: Manufacturer discontinued
- 2013: European countries began approving for alcohol dependence
- \bullet 2020s: Studies for opioid overdose reversal product (US)

Clinical Pharmacolom Online Database	Ú	
		Clinical Pharmacology-Culine Data base

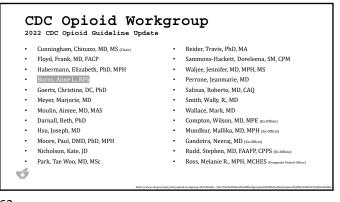
	Nalmefene Products			
Product	Dose	Dose Directions		
Generic Injectable	2 mL vials (1 mg/1 mL)	Weight-Based IV Bolus or IM/SC	Rx	
Zurnai* Auto-Injector	1.5mg in 0.5mL	Single-Dose Auto-Injector	Rx	
Opvee* Nasal Spray	2.7mg	Spray into one nostril; may repeat in 2 to 3 minute with 2 nd device in alternate nostril	Rx	



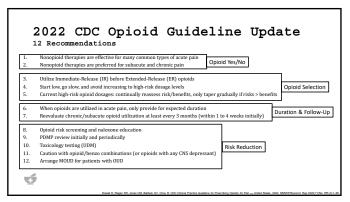
2022 CDC Opioid Guideline Update
Published Online Thursday November 3rd, 2022

CDC Cortes for Disease Corted and Prevention
On let large in the transport of the Cortes of Disease Corted and Prevention
On let large in the transport of the Cortes of Large in the Cortes of La

61 62



63 64



2022 CDC Opioid Guideline Updates
Section 1: Recommendation 1

Nonopioid therapies are at least as effective as opioids for many common types of acute pain

Maximize Non-Rx and Non-Opioid Treatments

Only utilize Rx Opioid when Benefits > Risks

Discuss benefits & risks of opioid therapy with patient

Reference: AHRQ Review Article of 183 RCTs

65 66

Opioids in Acute Pain Kidney Stones

- 8 trials w/ \sim 2K Patients with kidney stone pain

 - NSAIDs

67

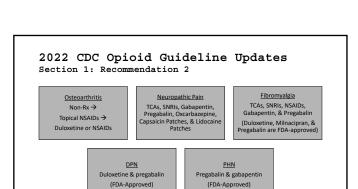
Ú

69

- 1 Trial: Indomethacin 4 Trials: Ketorolac 3 Trials: Diclofenac

- Summary
 Opioid therapy probably less effective than NSAIDs for kidney stone pain
 Less effective than APAP for kidney stone pain
- ❖All single dose Inpatient IV Therapy, yet guideline scope: OUTPATIENT ???

KETO GUIDO



2022 CDC Opioid Guideline Updates Section 1: Recommendation 2

Non-Opioids Preferred For Subacute & Chronic Pain

- Maximize Non-Rx and Non-Opioid Treatments
- Only utilize Rx Opioid when Benefits > Risks
- · Discuss Benefits & Risks Of Opioid Therapy with Patient
- Discuss Opioid Discontinuation if Risks Eventually > Benefits
- ➤ Non-Opioid Options Should Have Insurance Coverage

68

2022 CDC Opioid Guideline Updates Section 2: Recommendation 3

➤ Opioid Initiation: IR Before ER/LA

- ER/LA opioids should be reserved for severe, continuous pain $\bullet\,$ FDA: Some ER/LA opioids only after IR opioids daily for at least 1 week
- Be careful with opioid rotation & renal/hepatic dysfunction
- \bullet Methadone should not be 1^{st} Line option for ER/LA Rx pain opioid
- TD Fentanyl only with clinicians aware of dosing/absorption

Ó

70

2022 CDC Opioid Guideline Updates Section 2: Recommendation 4

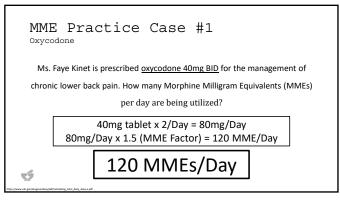
➤ Opioid Initiation: Start Low, Go Slow

- Many patients do not experience benefit in pain and function from ≥50 MME/day but are exposed to progressive risk
- ➤ Opioid-Naïve Starting Dose:
 - 5 to 10 MME single dose, or 20 to 30 MME/Day

MME Factors

2022 CDC Guidelines

Rx Opioid	MME Factor
Codeine	0.15
Fentanyl (Transdermal)	2.4
Hydrocodone	1.0
Hydromorphone	5.0
Methadone	4.7
Morphine	1.0
Oxycodone	1.5
Oxymorphone	3.0
Tapentadol	0.4
Tramadol	0.2



MME Practice Case #2

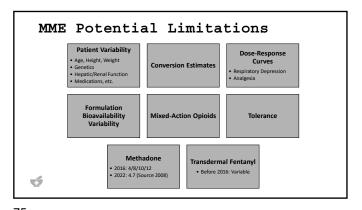
Tramadol

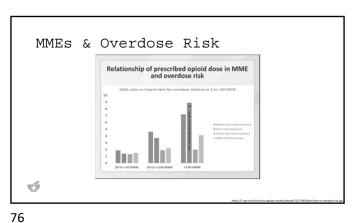
Thomas Payne is utilizing tramadol 50mg QID PRN. How many
Morphine Milligram Equivalents (MMEs) per day are being utilized?

Tramadol 50mg tablet x 4/Day= 200mg/Day
200mg/Day x 0.2 (MME Factor) = 40 MMEs/Day

40 MMEs/Day

73 74





75 70



2022 CDC Opioid Guideline Updates
Section 2: Recommendation 5

>If Opioid Risks > Benefits: Optimize Other Tx's (& Gradually Taper Opioid)

• 10% Monthly, and may need to pause/restart (rapid tapers only if life threatening)

• Counsel on decreased tolerance (Overdose risk with previous doses)

• Payers, health systems, & state medical boards should not use this clinical practice guideline to set rigid standards

77 78

2022 CDC Opioid Guideline Updates
Section 3: Recommendation 6

Acute Pain
Utilize no greater quantity
than needed for the pain's expected duration

Utilize no greater quantity
than needed for the pain's expected duration

Day's supply of first opioid precipition

Continued Use, NOT OUD (Addiction)

Day's supply of first opioid precipition

Day's supply of first opioid precipition

Day's supply of first opioid precipition

Continued Use, NOT OUD (Addiction)

Day's supply of first opioid precipition

Continued Use, NOT OUD (Addiction)

Day's supply of first opioid precipition

Continued Use, NOT OUD (Addiction)

Day's supply of first opioid precipition

Continued Use, NOT OUD (Addiction)

Day's supply of first opioid precipition

Continued Use, NOT OUD (Addiction)

Day's supply of first opioid precipition

Continued Use, NOT OUD (Addiction)

Day's supply of first opioid precipition

Continued Use, NOT OUD (Addiction)

Day's supply of first opioid great precipition

Continued Use, NOT OUD (Addiction)

Day's supply of first opioid precipition

Continued Use, NOT OUD (Addiction)

Day's supply of first opioid precipition

Continued Use, NOT OUD (Addiction)

Continued Use, NOT OUD (Addiction)

Day's supply of first opioid precipition

Continued Use, NOT OUD (Addiction)

Contin

2022 CDC Opioid Guideline Updates Section 3: Recommendation 7

- ➤ Regular Follow-Up
- Evaluate Risks/Benefits within 1 to 4 weeks of opioid initiation or dosage escalation
- Regularly reevaluate Risks/Benefits of continued utilization

Ú

80

82

79

2022 CDC Opioid Guideline Updates Section 4: Recommendation 8

- ➤ Opioid Risk Assessment (Initially & Continually)
- ➤ Naloxone Education (ALREADY DISCUSSED)

Ú

81

Opioid Risk Screenings

	Opioid-Naïve	Opioid-Experienced
Self	Drug Abuse Screening Test (DAST) Screener and Opioid Assessment for Patients with Pain (SOAPP)	Current Opioid Misuse Measure (COMM) Pain Medication Questionnaire (PMQ) Prescription Drug Use Questionnaire, Patient (PDUQp)
Provider	Opioid Risk Tool (ORT) Opioid Risk Tool for Substance-Use Disorder (ORT-SUD) Diagnosis, Intractability, Risk, and Efficacy Score (DIRE)	Prescription Drug Use Questionnaire (PDUQ)

2022 CDC Opioid Guideline Updates Section 4: Recommendation 9

- ▶PDMP Review: Initially & minimum q 3 months
- Part of the overall risk reduction strategy (not sole)
- Assess Complete Opioid Daily Dosage & Risks
- PDMP Risk Scores are not validated (to clinical outcomes such as overdose) and should not supplant clinical judgement
- Clinicians should not dismiss patients based on PDMP alone

Ú

2022 CDC Opioid Guideline Updates Section 4: Recommendation 10

- ➤ Consider Urine Drug Monitoring (Subacute/Chronic Pain)
- Screening vs. Testing
- Not Punitive (Should not dismiss based on UDM alone)

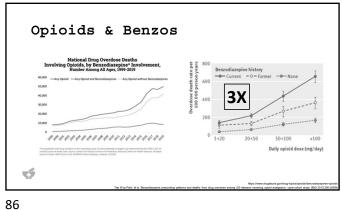
Ú

2022 CDC Opioid Guideline Updates Section 4: Recommendation 11

- ➤ Caution with Opioids & Benzos (Risks vs Benefits)
- · Incidents of the combo do occur
 - Patient utilizing chronic Benzo experiencing Acute Pain, etc.
- Benzo's require a personalized gradual taper to avoid withdrawal symptoms (seizures, etc.)



85



2022 CDC Opioid Guideline Updates Section 4: Recommendation 12

>OUD → MOUD

•This is a Pain Guideline Right?

87

Beers Criteria Update

88

Aging Anatomy & Physiology

Cardiovascular

- Heart wall thickens, HR decreases, & Immune System
- Systolic BP increases <u>Pulmonary</u>
- widen = Decreased pulmonary Flow
- Central Nervous System (CNS)
- Brain Size & BBB decreases

- · Kidney size decreases GFR decreases Hepatic System
- Liver Mass & CYP450 decreases
- - · Entire immune system function
 - decreases

 - Gastric emptying frequency decreases
 - Gastric emptying time duration

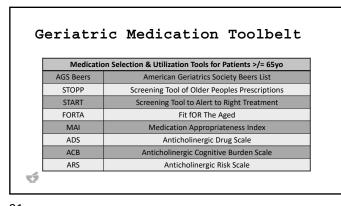
Overall Body

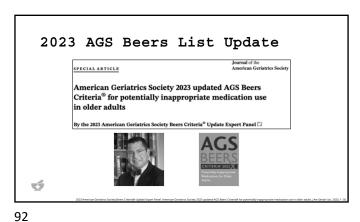
- Body water/muscle ratio decreases
- Body fat increases

Painful Paperwork

- · Living Wills
- · Power of Attorney
- Durable Power of Attorney
- Durable Power of Attorney for Healthcare Decisions Valid if patient becomes incapacitated
- DNR Orders
 - Do Not Resuscitate Orders, made by patient while competent Made by Family/Practitioner if not competent

89 90





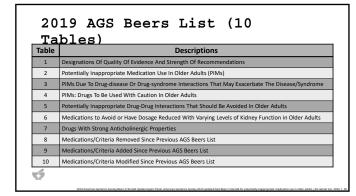
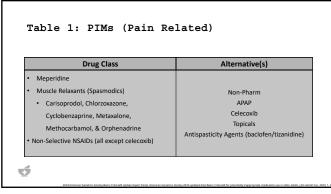


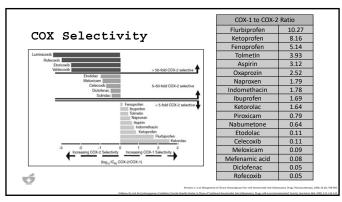
Table 1: PIMs (Pain Related)

Drug Class Alternative(s)

TCA's: ALL except Doxepin </= 6 mg/day
Paroxetine SNRI's
Barbiturates (Butalbital/Phenobarbital)
Benzodiazepines (ALL) Trazodone
Z-Hypnotics Topicals (Neuro Pain)
Eszopiclone, Zaleplon, & Zolpidem

93 94





95 96

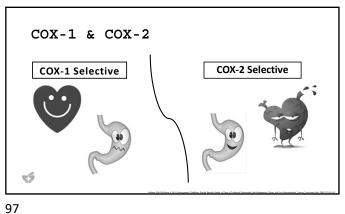


Table 3: PIMs Due to Disease/Syndrome Pain Related

- Heart Failure (Avoid NSAIDs)
- Syncope (Avoid Tertiary TCAs: Amitriptyline, Imipramine, Clomipramine, Doxepin)
- Delirium (Avoid Opioids, Benzo's, Corticosteroids, etc.)
- Dementia (Avoid Anticholinergics, Antipsychotics, Benzo's, & Z-Hypnotics)
- History of Falls/Fractures (Avoid Benzo's, Opioids, Z-Hypnotics, TCAs, SSRIs, & SNRIs)
- Gastric/Duodenal Ulcer (Avoid NSAIDs except celecoxib)
- CKD Stages 4 & 5 (Avoid all NSAIDs)



98

Table 4: Medications to Use with Caution in Elderly Pain Related

- · Antipsychotics
- Mirtazapine
- SNRIs
- SSRIs
- TCAs
- Tramadol



101

Table 5: Drug/Drug Interactions Pain Related

- Multiple Anticholinergic Medications (Cognitive Decline, delirium, & falls/fractures)
- Opioids & Benzos/Gabapentinoids (Sedation/Overdose)
- >/= 3 CNS Active Medications (Falls/Fractures)
 - Antidepressants, Antipsychotics, Antiepileptics, Benzos, Z-Hypnotics, Muscle Relaxants, & Opioids



100

102

99

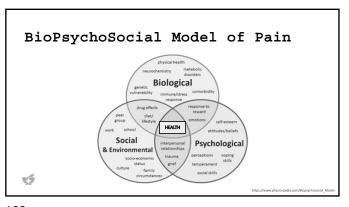


If Not Anything, Then Something?

Patient by patient scenarios

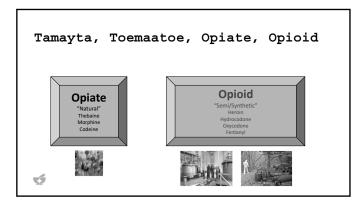
- Clinical judgment
- Monitoring
- Documentation





New Pain Medications
The Opioids

103 104



Opioid Structural Classes

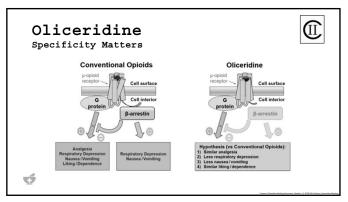
Structural Class

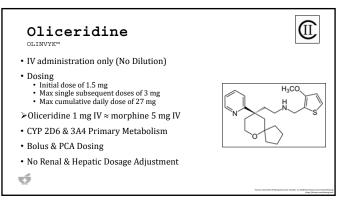
Phenanthrenes
Benunomphan Opheryfreptane Phenyloppedrines Phenyloppedrines New Entity
Rings S Rings 4 Rings 3 Rings 2 Rings 2 Rings 1 Ring 4 Rings

Structural Class

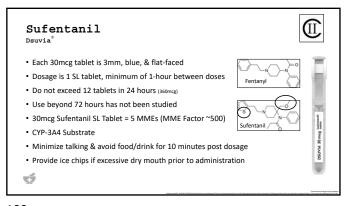
Well Codenie
Codeni

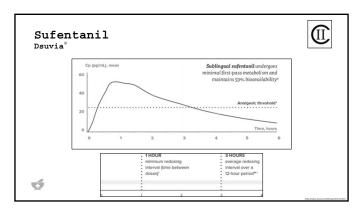
105 106

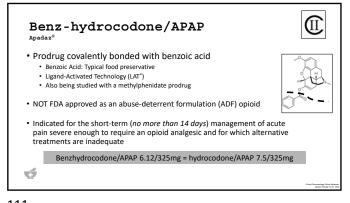


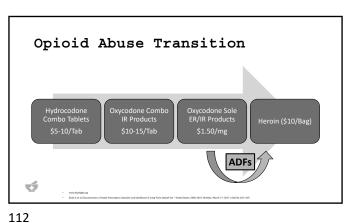


107 108



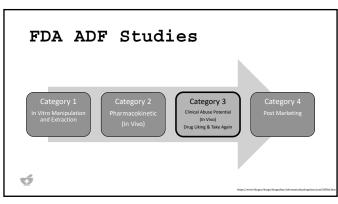






111 11

ADF Type	Description			
1. Physical Barrier	Prevent chewing, crushing, cutting, grating, or grinding			
2. Chemical Barrier	Resist extraction of the opioid through use of common solvents including water, alcohol or other organic solvents			
3. Agonist/Antagonist Combinatio	Antagonist is added to the formulation to interfere with release if taken in any other way than it was intended			
4. Aversion	Substances are added to the dosage form to produce an unpleasant effect if the dosage form is manipulated prior to ingestion or if a higher dosage than directed is used			
5. Delivery System	Alternative delivery systems that are more difficult to manipulate (such as a depot injectable, an implant, or transdermal application)			
6. Prodrug	Medication contains a prodrug that lacks opioid activity until it has been transformed in the gastrointestinal tract			
7. Combination of the above				



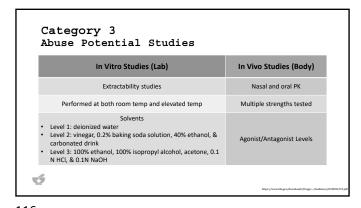
113 114

Category 3
Abuse Potential Studies

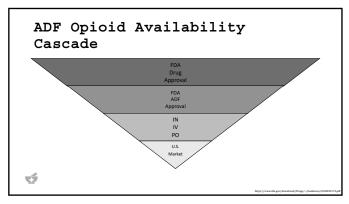
Physically Manipulation

Cutting
Grafting
Milling
Chewing
+/- Heat

Injection (Parenteral Route)
Insufflation (Nasal Route)
Smoking (Inhalation Route)



115 116



Active Ingredient	Product	FDA ADF Approval	Formulation
	Xtampza ER*	IN, IV, & PO Chew	Capsule
	Xartemis ER* (+APAP)		IR/ER Tablet
	OxyContin®	IN & IV	Tablet
oxycodone	Troxyca**	IN, IV, PO Crush	Capsule
	Targiniq*	-	Tablet
	Oxaydo*		IR Tablet
	RoxyBond*	IN & IV	IR Tablet
tapentadol	Nucynta ER®		Tablet
hydromorphone	Exalgo*		Tablet
	Embeda*	IN & PO Crush	Tablet
morphine	Arymo*	IV	Tablet
	MorphaBond*	IN & IV	Tablet
	Hysingla*	IN, IV, & PO Chew	Tablet
	Zohydro ER®	-	Capsule
hydrocodone	Vantrela ER®	IV	Tablet
	Hydromet*		Liquid
	Tussigon*	-	Tablet
benzhydrocodone	Apadaz*	-	Tablet
pentazocine	Talwin NX®		Tablet
Oxymorphone	Opana ER*		Tablet

117 118



Medicine	Product	FD	A ADF	Approval	Formulation	Generic Available
hydrocodone	Hysingla [®]	IN	IV	PO Chew	ER Tablet	Yes
	OxyContin*	IN	IV	n/a	ER Tablet	Yes
oxycodone	Xtampza ER*	IN	IV	PO Chew	ER Capsule	No
	RoxyBond*	IN	IV	PO Chew	IR Tablet	No

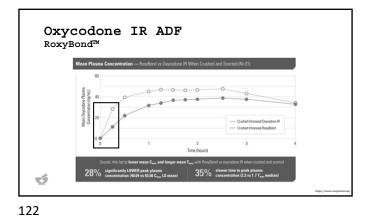
Oxycodone IR ADF $RoxyBond^{TM}$

- Oxycodone IR 5mg, 15mg, & 30mg
- 1-to-1 Dosing Conversion with Oxycodone IR
- SentryBond[™] Technology

121

- Resists Physical Manipulation
- Resists Chemical Extraction
- Resists manipulation or transformation for injection





Oxycodone IR ADF
RoxyBond™

Meas Take Oreg Again Scores — Project of to Discore ill Went Crabed and Scored N-29

West Take Oreg Again Scores — Project of to Discore ill Went Crabed and Scored N-29

West Take Oreg Again Scores — Project of to Discore ill Went Crabed and Scored N-29

West Take Oreg Again Scores — Project of to Discore ill Went Crabed and Scored N-29

West Take Oreg Again Scores — Project of to Discore ill Went Crabed and Scored N-29

West Take Oreg Again Scores — Project of to Discore ill Went Crabed and Scored N-29

West Take Oreg Again Scores — Project of to Discore ill Went Crabed and Scored N-29

West Take Oreg Again Scores — Project of to Discore ill Went Crabed and Scored N-29

West Take Oreg Again Scores — Project of to Discore ill Went Crabed and Scored N-29

West Take Oreg Again Scores — Project of to Discore ill Went Crabed and Scored N-29

West Take Oreg Again Scores — Project of to Discore ill Went Crabed and Scored N-29

West Take Oreg Again Scores — Project of the United Scored N-29

West Take Oreg Again Scores — Project of the United Scored N-29

West Take Oreg Again Scores — Project of the United Scored N-29

West Take Oreg Again Scores — Project of the United Scored N-29

West Take Oreg Again Scores — Project of the United Score in Contract of the United Sco

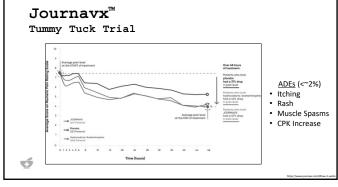
New Pain Medications
The Non-Opioid

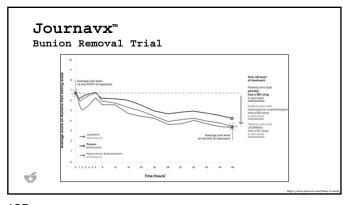
123 124

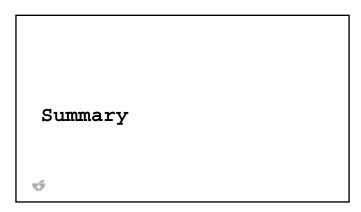
Journavx[™] suzetrigine

- Non-Opioid
- $\bullet \ NaV1.8 \ Antagonist \ ({\tt Blocks\ action\ potential\ that\ typically\ shifts\ Na\ into\ cell})$
- FDA Approval: Moderate-to-Severe (NPS 4 to 10) Acute Pain in Adults
- Dosage:
- 100mg, 50mg q12 x 3, then 50mg QD (<14d)
- 3A Substrate
- \$15/pill

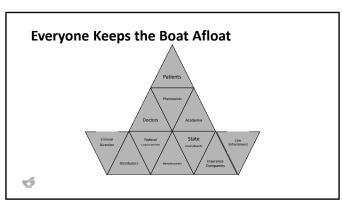
Ú







Patient CARE People Respect What You Inspect, Not What You Expect An Ounce of Prevention, is Worth a Pound of Treatment Never Stop Learning Hippocratic Oath: Do No Harm



130 129

Resources

- 2023 Beers Criteria Update
- 2022 CDC Opioid Guideline Update
- 2016 West Virginia Safe & Effective Management of Pain (SEMP) Guidelines (Updating in 2025)
- https://www.nationalopioidsettlement.com/

131 132

Key Takeaways

- · Buprenorphine is a partial Mu agonist with a respiratory depression ceiling effect
- Controlled Substance Red Flags in the National Opioid Settlement include, but are not limited to:
 Cs-2 Refill Too Soon by > 3 Days
 Doctor Shopping (Cs > 4 Previous Prescribers of Separate Practices over 6 months)
 Distance between patient's residence and pharmacy > 50 miles
 Distance between patient's residence and prescriber > 100 miles
 Prescriber has no office within 50 miles of pharmacy
 Cash pay despite having prescription insurance coverage

 - CS-2 + Benzodiazepine + Carisoprodol
- $Opioid\ overdose\ symptoms\ include\ gargled,\ slow,\ or\ absent\ breathing\ (death\ rattle);\ being\ unconscious\ \&\ unarousable;\ blue\ lips\ \&\ nails\ (hypoxia);\ hypotension;\ pinpoint\ pupils;\ slow/no\ heartbeat;\ \&\ pale\ clammy\ skin$
- Naloxone is a highly lipophilic, low oral bioavailability, short duration of action mu-opioid antagonist which is FDA approved for opioid agonist overdoze (respiratory depression). Nalmefene is a mu-opioid atlagonist working respiratory depression). Nalmefene is a mu-opioid antagonist with the harge great oral bioavailability, a longer half-life compared to naltrexone, 5-times the mu-opioid receptor affinity of naloxono, and is available as injectable, auto-injector, and intransal products, with a massal administration mirroring that for naloxono produces and products (1st Ozoo being); a joray in one notice; joray in one notice; and interest of the products of t

Key Takeaways

- The CDC recommends prescription opioid utilization considerations including utilization of immediate-release (IR) before extended-release (ER) opioids, a start low, go slow dosage strategy, and avoid increasing to high-risk dosage levels; reevaluating risks versus benefits for legacy or inherited patient utilizing high-risk prescription opioid dosages, when prescription opioid tapering is appropriate, only utilize a gradual tapering; when opioids are utilized in acute pain, only provide for expected duration; & to reevaluate chronic/subacute opioid utilization at least every 3 months (within 1 to 4 weeks initially)
- The CDC recommends universal pain management best practices including opioid risk screening, naloxone education, PDMP review, urine drug monitoring, avoidance of opioid and other sedatives combinations, and offering MOUD for patient with OUD.
- Meperidine is the only opioid on the Beers Criteria List of Potentially Inappropriate Medications (PIMs) for all geriatric patients, yet for patients with a history of falls, all opioids are on the PIMs list
- The FDA-approved ADF opioid medications available on the U.S. market include the hydrocodone product of Hysingla® and the three oxycodone products of OxyContin®, Xtampza ER®, & RoxyBond®
- Suzetrigine is a Non-Opioid NaV1.8 Antagonist FDA Approval: Moderate-to-Severe (NPS 4 to 10) Acute Pain in Adults



133 134

Question 2

- According to the National Opioid Settlement, which of the following are controlled substance red flags?
 - a) 60 miles between patient's residence and pharmacy
 - b) 60 miles between patient's residence and prescriber
 - c) 75 miles between patient's residence and prescriber
 - d) 30 miles between pharmacy and prescriber



135 136

Question 4

- 1. Which of the following naloxone products is available as both prescription and over-the-counter?
 - a) 5mg Injectable
 - b) 10mg Auto Injector
 - c) 4mg Nasal Spray
 - d) 8mg Nasal Spray



137 138

Question 1

- 1. Which of the following described current buprenorphine regulations?
 - a) There is no "X-Waiver" nor provider patient limits
 - b) There is no "X-Waiver" but a provider patient limit of 100
 - c) There is an "X-Waiver" with a provider patient limit of 100
 - d) There is an "X-Waiver" with a provider patient limit of 250



Question 3

- 1. According to the National Opioid Settlement, which of the following are controlled substance red flags?
 - a) Oxycodone, Diazepam, & Zolpidem
 - b) Oxycodone, Diazepam, & Carisoprodol
 - c) Hydrocodone, Morphine, & Alprazolam
 - d) Hydrocodone, Tramadol, & Zolpidem



Question 5

- 1. What is the dose of the nalmefene nasal spray products available with a prescription?
 - a) 2.7mg
 - b) 3.6mg
 - c) 5.4mg
- d) 7.6mg



Question 6

- 1. According to the CDC Opioid Guideline update, what is a recommended gradual opioid taper (when appropriate)?
 - a) 10% Monthly
 - b) 10% Weekly
 - c) 15% Monthly
 - d) 15% Weekly



139 140

Question 8

- Which of the following medications has a novel mechanism of action aiming to avoid the B-Arrestin portion of the Opioid Mu Receptor?
 - a) Buprenorphine
 - b) Levorphanol
 - c) Oliceridine
 - d) Pentazocine



141 142

Question 10

- 1. What are appropriate patient counseling points for the non-opioid Journavx*?
 - a) Take with a full glass of water to avoid hypernatremia
 - b) Take 1 hour before or 2 hours after food
 - c) Take 2 hours before or 1 hour after food
 - d) Review for Significant interaction with 2C9 NSAIDs



143

Question 7

- According to the most recent AGS Beers Criteria, which of the following NSAIDs is recommended for an older adult without any comorbidities?
 - a) Celecoxib
 - b) Diclofenac
 - c) Ibuprofen
 - d) Naproxen



Question 9

- 1. Which prescription opioid is is an FDA-Approved immediate-release ADF product?
 - a) Hysingla ®
 - b) OxyContin *
 - c) RoxyBond *
- d) Xtampza ^{*}



CE Evaluation Access Code

Capital Letters, No Spaces

Please complete the online evaluation by **03/16/2025**Note: CE credit will be reported to NABP CPE Monitor within 4-6 weeks





