

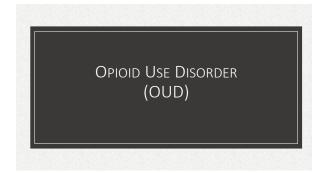


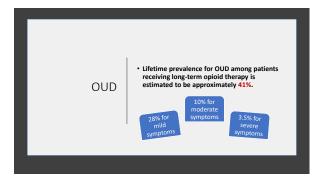
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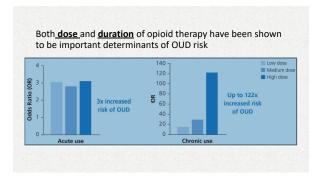
OBJECTIVES

- 1. Identify patients with chronic pain and opioid use disorder (OUD) who may $\,$ benefit from buprenorphine.

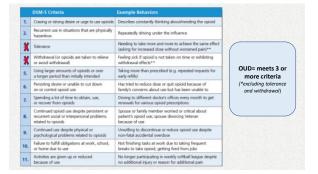
 2. Evaluate different buprenorphine formulations' place in therapy and create a
- risk mitigation plan for the treatment of chronic pain with or without OUD.
- ${\bf 3.\ Discuss\ available\ literature\ on\ indications\ that\ may\ benefit\ from\ CBD\ treatment.}$ Review VHA directives and regulatory issues surrounding cannabinoids.
 Describe currently available cannabinoid products on the market, their
- indications for use, and concerns with product reliability. $\,$ 6. Discuss the process to order and interpret urine drug tests for buprenorphine and cannabinoids.

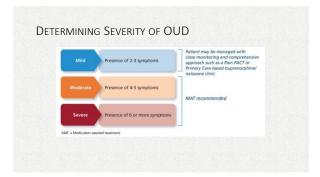


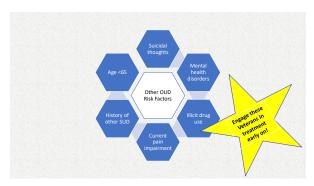


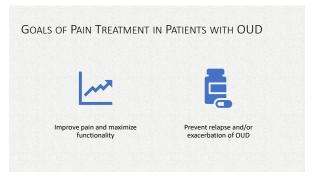


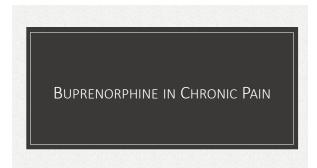
Drug craving or inability to control use may go unrecognized if patients continue to receive opioids Aberrant behaviors may become more apparent and reveal an OUD when opioids are tapered or discontinued or as tolerance begins to develop When performing a physical examination in a Veteran with suspected OUD or on an opioid: Look for signs and symptoms of opioid intoxication and/or withdrawal Look for indications of N drug use Order a random UDS to check for une-pected findings

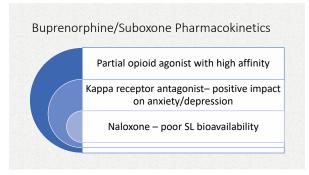




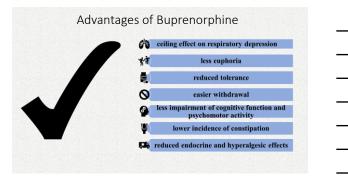




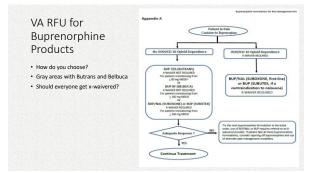


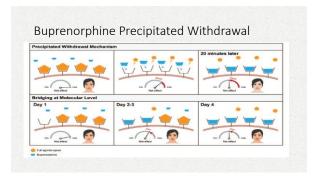


CA pain 1 studies compared BUP to another pain medication 5 found superiority to the comparator, 3 found inferiority to the comparator in terms of side effects or patient preference All studies reported that S. BUP showed some effectiveness for chronic pain SL BP chronic pain 10 studies identified including 1190 patients with various pain conditions including general chronic pain, sickle-cell, carrier pain, ontecentrivitis, and noticeptive pain All studies reported that S. BUP showed some effectiveness for chronic pain Conversion from full dose ophioid to buprenorphine Oversion from full dose ophioid to buprenorphine Oversion from full dose ophioid to buprenorphine 1 overal, patients reported a 51% decrease in pain scores before and after conversion to SL BUP (7.2 points > 3.5 points; P. C.003) 3 4 of 35 patients reported a decrease in pain



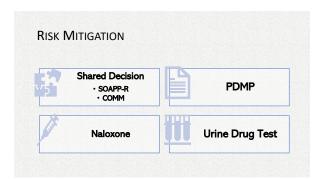
Oral Buprenorphine Products			
Generic Name	Buprenorphine (transdermal patch)	Buprenorphine (buccal films)	Buprenorphine/naloxone; Buprenorphine (SL tablet)
Brand Name	Butrans [®]	Belbuca [®]	Suboxone [®] , Subutex [®]
Formulary Preference	Formulary PADR Required	Formulary PADR Required	Must be X-waivered to prescribe
Dosing Frequency	Weekly	BID	BID or TID (pain dosing)
Inclusion Criteria	Moderate to severe chronic p	ain requiring continuous, around-the-c and deemed high risk for traditio	lock opioid analgesic for an extended period of tim nal opioid therapy
Exclusion Criteria	Significant respiratory depression, conditions predisposing to significant respiratory depression including acute or severe bronchial asthma, known/suspected paralytic ileus, long QT syndrome, or taking a Class IA or III antiarrhythmic		
	Failed attempts to taper off opioids due to physiologic opioid dependence		nysiologic opioid dependence
Recommended Conditions for Use	Long term opioid therapy of ≤ 80 MEDD	Long term opioid therapy of ≤ 160 MEDD	Suspected OUD + chronic pain OR— Failed or have a contraindication/intolerance to other buprenorphine formulations (i.e > 160 MEDD)





Option 1: Traditional Appr	oach
Taper down to 60-80 MEDD Hold full mu agonist (see chart Transition based on pre-taper Means to the second s	
Medication/Formulation	Amount of Time to Ho
IR Formulation	8 hours
SA Formulation	12 hours
Fentanyl	3 days
Methadone	3-5 days

Dosing Appr	OACHE	s for SL Formulation	ONS
Option 2: Overla	apping Ap	pproach	
Increase dose over chart below) Once at therapeuti	r 4-5 days (to		,
Target Dose Based on	Day	BUP/NAL (Only BUP dose listed)	Oxycodone S
larger bose basea on	<u> </u>		
Pre-Taper MEDD	1	0.5mg BID	80mg TID
Pre-Taper MEDD	1 2	0.5mg BID 1mg BID	
	<u> </u>		80mg TID
Pre-Taper MEDD	2	1mg BID	80mg TID 80mg TID
Pre-Taper MEDD <100 MEDD = 2mg BID or TID	2	1mg BID 1mg TID	80mg TID 80mg TID 80mg TID



	_	_
BUPRENORPHINE	DRUG.	SCREENING

- Which test do you order to monitor buprenorphine?
 - Drug Test General (a.k.a. Gen Tox) or standard UDS if available locally

Specimen: URINE (T-7X100); Accession: SEND 20 26845;
Report Released Date/Time: Aug II, 2020814:23
Comment:

The following compounds were detected:
Continue (Nicotine Metabolite)
Caffeine
Norbuppenorphine (Buprenorphine Metabolite)
Buprenorphine
Mydrowyzine

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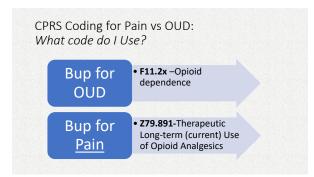
SUBOXONE SUCCESS STORY

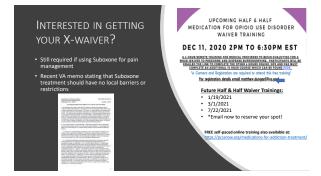
- 35-year-old male with chronic knee pain for >15 years on chronic opioids, and provoked DVT (immobility) presented as a walk-in to the pain pharmacy clinic. In the month before this appt, he had been seen on 4 occasions for uncontrolled pain and had run out of his opiates early multiple times.
 - Previous opiate regimen: oxycodone/APAP 10mg/325mg q6h prn + oxycodone/APAP 5/325mg prn (up to three doses a week)
 - \bullet Buprenorphine/naloxone education completed, and patient agreed to transition
 - Buprenorphine/naloxone 2/0.5mg QID started
 - Pt already in withdrawal at time of initiation due to running out early

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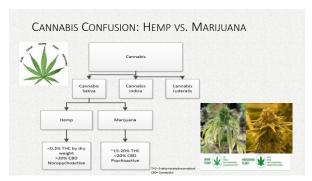
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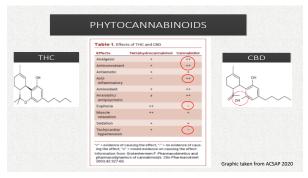
- 1 week after initiation: States his pain is much improved, and that he "wishes he had listened months ago^ω
- Maintained on buprenorphine/naloxone 2/0.5mg QID + an extra dose every few days prn
- No walk-ins, no early refill requests, pain improved (last pain score in March 2020: 5, down from 10 in Jan 2020)

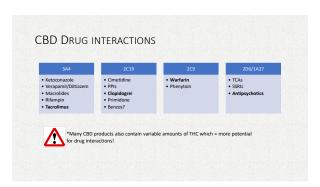


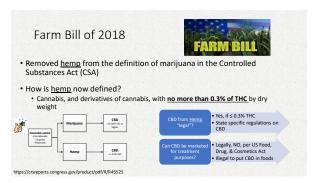


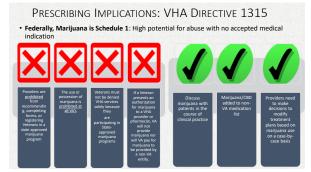




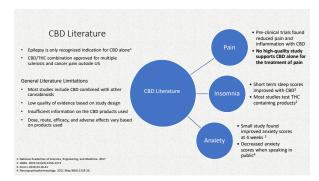








Drug	Product Origin	Schedule	Indications
Marinol, Syndros (Dronabinol) Oral capsule, oral solution Approved 1985	Synthetic THC	Schedule III (MarinoI)/Schedule II (Syndros)	Chemotherapy induced nausea/vomiting and AIDS-related loss of appetite
Cesamet (Nabilone) Oral capsule Approve 1985	Synthetic analog of THC	Schedule II	Chemotherapy induced nausea and vomiting
Sativex (Nabiximols) Oral spray Not approved in US	1:1 CBD to THC	Not available in US, used in 27 other countries	Multiple sclerosis-related spasticity and adjunctive analgesic in cancer patients







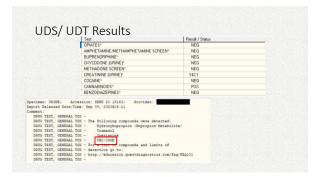
CANNABINOID UDS/UDT FAQs • Which urine drug test should I order? • UDS (in-house, immunoassay): 50 ng/mL • UDT (send-out, GC-MS @ Quest): 100 ng/mL • Patient states they are only using CBD oil. Will drug screen be negative? • It depends • On the product→ • "Pure CBD oil" is rarely pure • Trace THC below legal limit of 0.3% may still test positive • On the test → • UDS may cross-react with other cannabinoids besides THC

UDT will only test positive for THC

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	CANNABINOID UDS/UDT FAQs
•	How long after last use of THC will test still be positive?
	Single use: 2-8 days
	Chronic use: 20-30 days
	Aren't there a lot of things that cause false positives for marijuana?
	• Yes:
	Dronabinol
	Maybe:
	Efavirenz
	Proton pump inhibitors (PPIs)
	Hemp products
	Not anymore:
	• NSAIDs

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Buprenorphine can used for the treatment of pain, especially in patients with a history of long-term opiate use requiring around the clock pain treatment Marijuana remains schedule 1 on a federal level, and VHA practitioners are prohibited from recommending/prescribing
• CBD
Lack of consistency/reliability in commercially available products
 Has not demonstrated efficacy treating the most common indications for which patients take it

Thank you for participating today! Claiming your CME credit: Must have pre-registered in TMS for attending today's session. Complete program evaluation within 30 days. Pharmacists: must have you NABP number added to TMS profile.



PHINE AND CBD PRODUCTS
Pain Management
Questions/Discussion