Clinical Pharmacist with a DEA License: Efforts to Increase Access to Buprenorphine in a Veteran Population

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DISCLOSURE

- I have no personal fiduciary conflicts of interest
- I work full time for the North Florida/South Georgia VA Health Care System
- The views expressed in this presentation are solely my own and do not necessarily reflect the position or policy of the Department of Veterans Affairs, the United States government, or any university or organization
- Off label use of buprenorphine/naloxone for pain is discussed



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AGENDA

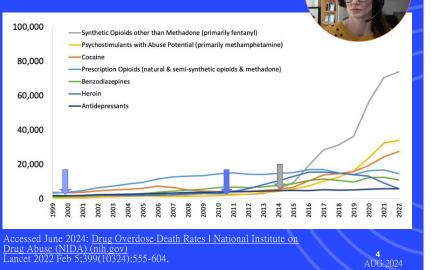
- Define the evolving opioid epidemic
- Introduce CPP as a mid-level provider(MLP) with potential for DEA privileges
- Discuss my prescribing patterns since licensure
- Overview key buprenorphine pharmacology and pharmacokinetics
- Provide data on 4-week prospective look at Pain CPP buprenorphine induction clinic
- Discuss specific cases involving DEA licensed pain CPP safely and effectively managing
 - 1. Buprenorphine/naloxone home inductions for opioid use disorder
 - 2. Opioid rotation from full mu agonist to buprenorphine for chronic pain
 - 3. Off label use of buprenorphine products at mg doses for complex pain

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DRUG OVERDOSE DEATHS

Three waves of opioid epidemic

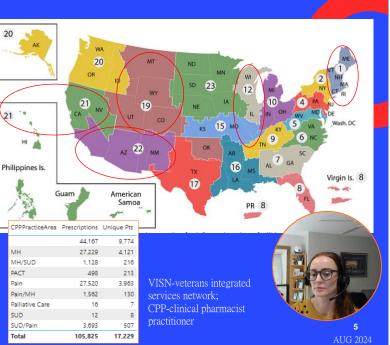
- Wave 1: rise if prescription opioid overdose deaths started in late 1990s
- Wave 2: rise in heroin overdose deaths started in 2010
- Wave 3: rise in synthetic
 opioid overdose deaths started
 in 2014



THIS IS ME

WHEN (IM) LEARNING NEW THINGS

	DEA licensed CPP	20
VISN 1	🗙 21	
VISN 2	9	
VISN 4	4	
VISN 6	18	
VISN 7	9	21
VISN 8	1 (2023)→3 (2024)	
VISN 9	18	
VISN 10	10	Philipp
VISN 12	★ 28	
VISN 15	10	J.
VISN 16	4	
VISN 17	4	
VISN 19	★ 28	MH MH/
VISN 20	17	PAC
VISN 21	24	Pain Pain
VISN 22	★ 25	Palli. SUD
VISN 23	17	SUD
		Tota



COLLABORATIVE PRACTICE AGREEMENTS (CPA)

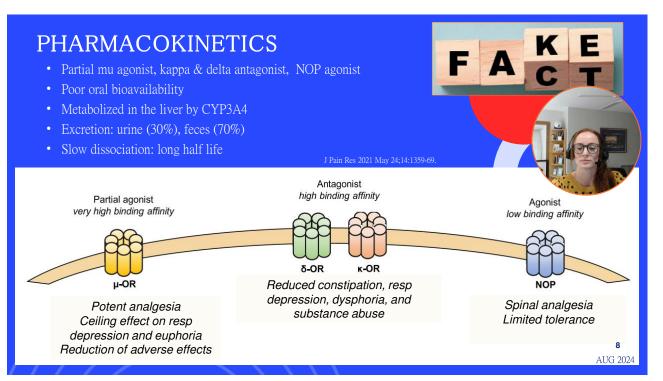
- Written agreement between a physician and pharmacist which allows the pharmacist to provide specific patient care services
 - Agreement is specific to an individual physician and pharmacist
- ALL 50 states now recognize CPAs
 - Differences between continuing education requirements, liability insurance, and documentation of services
- No nationally recognized standardization
- 10 states recognize pharmacists as midlevel practitioners and allow for prescribing of controlled substances

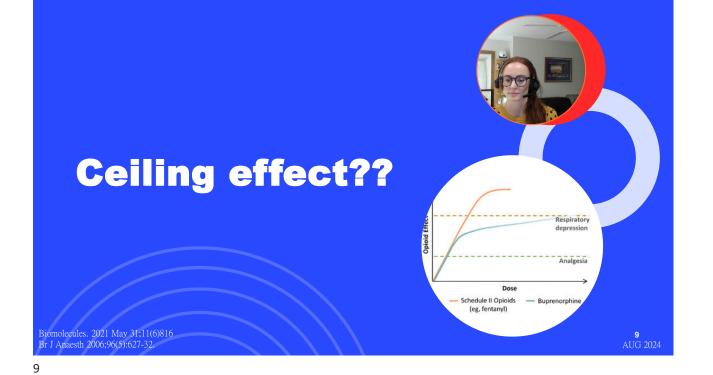
- 1. California
- 2. Idaho
- 3. Massachusetts
- 4. Montana
- 5. New Mexico
- 6. North Carolina
- 7. Ohio
- 8. Tennessee
- 9. Utah
- 10. Washington

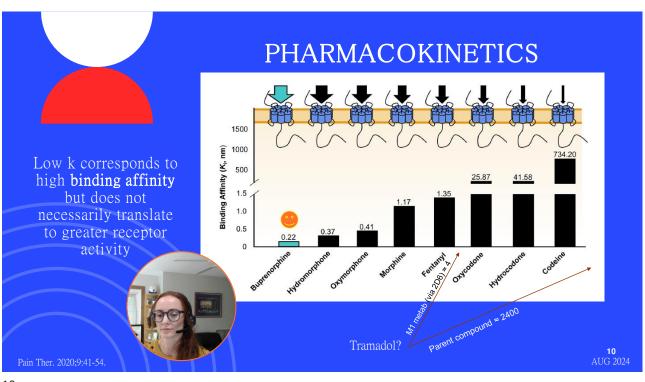


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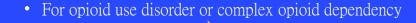


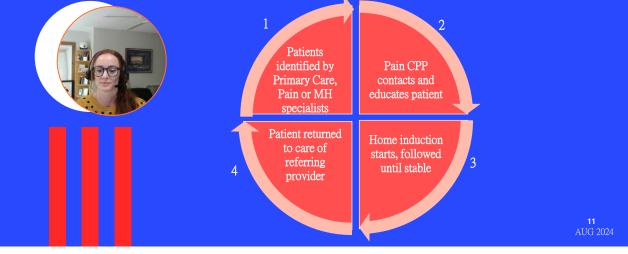




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PAIN CPP LED HOME INDUCTIONS



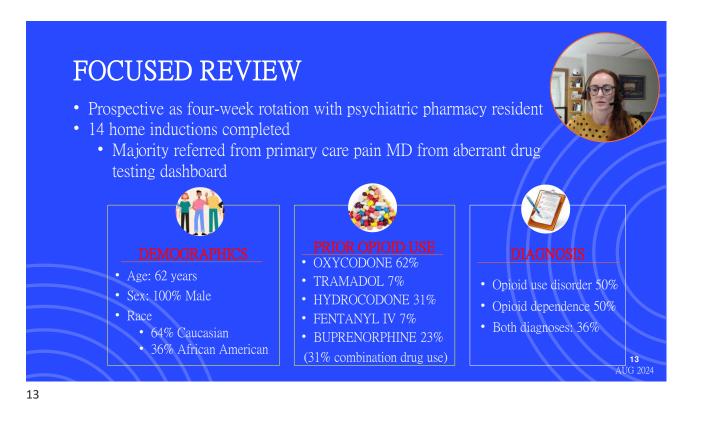


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DESCRIPTION OF SERVICE

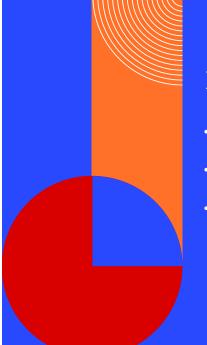
- Buprenorphine home induction consult service with specialty pharmacist management prescribing MAT for patients diagnosed with opioid use disorder, opioid abuse or opioid dependence
- Introductory phone call made to veteran to introduce service, provide preliminary education and obtain consent for enrollment Written information subsequently mailed on buprenorphine and its management of OUD and pain.
- Home induction then began at Pain CPP discretion with goal of returning to referring provider care once on stable dosing.
- All prescriptions written and signed for by Pain CPP during induction and initial weeks gaining stability. Pain CPP also orders necessary labs for follow-up.







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HOME INDUCTION DOSING

- Average dose of prior illicit med use was 25mg oral morphine equivalents/day
- Considering patient population (older) and reported opioid use, nearly all patients were induced on 2/0.5mg SL tablet
- All patients were called within 90min of first dose to assess for any precipitated withdrawal and then again later in afternoon
 - Average total buprenorphine dose on day 1 = 6mg (4-12)
 - Average total buprenorphine dose on day 2 = 10mg (8-16)

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CASE 1

 66yo WM voluntarily presenting to ED requesting "detox", who mentioned SI involving OD by fentanyl due to life stressors. He has h/o leg injury roughly 10yrs prior with medial and lateral plating in left tibia and subsequent femur fracture 2019. He relates opioid issues began after first fall and being

"cut off" due to "dirty" drug test (cannabis). He reports use of high-dose illicit oral hydromorphone until recent switch to fentanyl for cost. Of note, wife of 30 years died unexpectedly in last month.

- Admitted to inpatient psychiatry unit
- Declined Suboxone per psychiatry notes, stating did not like how he felt on it when used years prior
- Discharged 7 days later with IN Narcan



CASE 1 CONT.

- Contacted pt 2/14/24
- Agreed to Suboxone induction within minutes
 - Clarified overdose and suicidal ideation concern
 - Identified why he was resistant to Suboxone
 - Offered observed, in-office induction, but reported no opioid use in 10+ days
- F2F appt a few weeks later
 - Obvious need for help with pain mgmt.
 - Misconceptions re:requirements for corrective hardware surgery
 - Consults placed
 - Pain psychology
 - Ortho

CASE 1 CONT.

- Titrated Suboxone to 8/2mg SL q6h
- Ortho offered surgery
 - We met leading up to surgery to ensure compliance, coordinate appropriate Suboxone dose reduction perioperatively
 - Imperative Suboxone continued perioperatively but he should still receive post-op pain management with full mu opioids for acute pain
- Pt ultimately desires to be off all medications
 - Counseling on early remission period continued support
 - "You saved my life"

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FENTANYL ABUSE

OUD TREATMENT GOAL

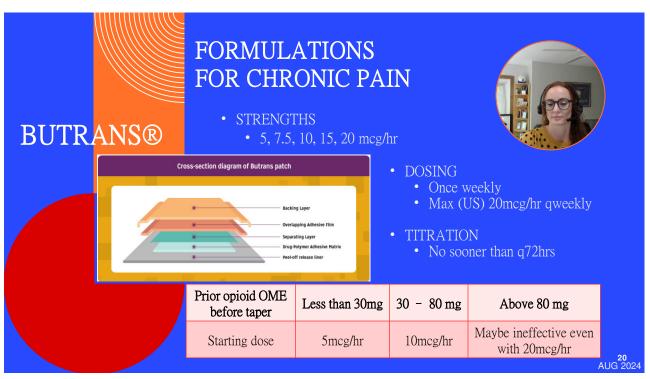
- 1. Eliminate negative reinforcement by suppressing opioid withdrawal symptoms and craving that can lead to illicit opioid use
- 2. Eliminate positive reinforcement by blocking the euphoric and motivational (drug-seeking) effects of illicit opioid use
- 3. Eliminate the toxicity of illicit opioid use by blocking its respiratory depression and associated overdose harm

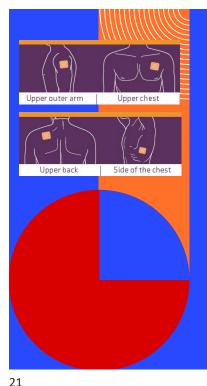
TARGET DOSE?

- Higher doses needed to protect against overdose toxicity
 - Apnea from fentanyl infusion was completely suppressed at buprenorphine steady state plasma concentration of 5ng/ml (= 32mg/day SL bup)
- Higher doses seem to result in more consistent adherence to treatment
 - 5x more likely at dose of 24mg/day or higher
- People who inject opioids may especially benefit

J Addict Med 2023;17:509-16.

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BUTRANS®

CLINICAL PEARLS

- 8 application sites
- Wait at least 21 days before going back to same skin spot
 - Clean, dry, hairless/nearly hairless skin
 - Clean application site with lukewarm water, air dry
 - Avoid soaps, alcohol, oils, lotions, or abrasives on site
 - Avoid shaving site or applying to hairy/sweaty areas
 - Do not apply to irritated skin
- Do not cut patch
- During dose adjustments, use no more than 2 patches at a time (adjacent to each other)
- Avoid external heat sources, prolonged hot water, direct sunlight
- Ok to tape edges
- Disposal: fold adhesive edges on self, flush down toilet

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DOSE EQUIVALENCIES

DRUG	BIOAVAILABILITY/ ABSORPTION	AMOUNT TAKEN	AMOUNT BUP ABSORBED	
BUTRANS®	15%	20mcg/hr patch	0.48mg/day	
BELBUCA®	55%	1800mcg	1mg	
SUBOXONE®	25%	4mg	1mg	



CASE 2

79yo with nearly decade long use of opioids for failed back surgery, lumbar radicular symptoms. He has a unique, strict regimen for pain he follows:

7am oxycodone/apap 5/325 10am apap 650 mg 11am tramadol 100mg 12pm oxycodone /apap 5/325 3pm apap 650 mg 5pm tramadol 100mg 6pm oxy/apap 5/325 10pm apap 650 mg 11pm tramadol 100mg, gabapentin 600 mg 12am oxy/apap 5/325

Originally came as a drug testing consult for (+) methadone screen on UDS. But, I also alerted provider that he had not been seen within last 90d, required by law. Spoke to family about possible switch to buprenorphine.

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CASE 2 CONT.

- Current OME = 88mg from oxycodone 20mg/d and tramadol 300mg/d
 - Using suggested conversion strategy, started him on 150mcg buccal films BID
- Had him stop tramadol and start Belbuca 150mcg BID while still using oxycodone, understanding goal will be tapering off oxycodone as Belbuca increased.
- Pt titrated about every 7 days using 150mcg films sent to him
 - "my personality is better even my psychiatrist said something and some friends" [referring to mood]
 - Tremors improved, stuttering less
 - Pain "essentially gone" other than with significant activity
 - Pt stated *"I'm better than good, it is an absolute miracle"*
 - Settled on 600mcg bucc BID for several months

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CASE 2

- Great example of life after traditional opioids
- Patient reached out to say he was having more breakthrough pain due to increased activity and widespread "arthritis"
 - Checked administration technique
 - Could have taken to 900mcg BID but I felt he was headed to mg dosing of the buprenorphine (off label use)
- On 1200mcg/day buccal film \rightarrow
 - Accounting for bioavailability, start 3mg SL Suboxone/day
 - Placed on 2/0.5mg SL tab, ¹/₂ tab SL TID, off label use for pain
 - Titrated slowly to 4/1mg SL TID and "basically pain free" unless significant activity but manageable with as needed acetaminophen

7am Suboxone 8/2mg, one-half tab
1pm Suboxone 8/2mg, one-half tab, gabapentin 600mg
9pm Suboxone 8/2mg, one-half tab, gabapentin 600mg
+ average 1 dose of 975mg acetaminophen/day

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BUPRENORPHINE TRANSITIONS

- Manufacturer recommendations within the package insert to reduce OME to < 30mg before conversation may be too conservative
 - Their concern: precipitated opioid withdrawal
- This reluctance to include buprenorphine in opioid rotation secondary to concerns about withdrawal and inadequate analgesia may be **unfounded**

AGGRESSIVE **BUPRENORPHINE TRANSITIONS**

- 2021 retrospective review
 - Pts changed from CII opioids to buprenorphine 2016-2019
 - 64% on 200mg or more OME
 - 84 pts converted directly from CII long acting opioid
 - 74/84 were down titrated to < 150 MMED before conversion
 - Most were converted to either 450mcg BID or 300mcg BID and most stabilized on 900mcg BID or 450mcg BID
- Conclusion: ".. Provides valuable clinical data to support the conversion from treatment with schedule II longacting opioids to BBF. These results demonstrate continued analgesia despite a reduction in daily OME, which could lead to improved patient safety outcomes and dosing strategies that are consistent with CDC recommendations."

Pain Medicine 2021;22(5): 1109-15. Pain Medicine 2016; 17: 899-907.

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AGGRESSIVE **BUPRENORPHINE TRANSITIONS**

For patients taking ≥80 mg MEDD, convert directly to an equivalent dose of buprenorphine buccal film:¹⁰ ✓ 80-160 mg MEDD: initiate 300 mcg 8-12 hours after last dose of full agonist opioids, g12 hr 161-220 mg MEDD: initiate 450 mcg 8-12 hours after last dose of full agonist opioids, q12 hr

Day	30-59 mg MEDD		60-89 mg MEDD		90-120 mg MEDD		121-160 mg MEDD	
	Full agonist opioids	Buccal Bup	Full agonist opioids	Buccal Bup	Full agonist opioids	Buccal Bup	Full agonist opioids	Buccal Bup
1	Continue	150 mcg BID (300 mcg TDD)	Continue	150 mcg BID (300 mcg TDD)	Continue	300 mcg BID (600 mcg TDD)	Continue	300 mcg BID (600 mcg TDD)
2	Continue	300 mcg BID (600 mcg TDD)	Continue	300 mcg BID (600 mcg TDD)	Continue	300 mcg QAM + 600 mcg QPM (900 mcg TDD)	Continue	300 mcg QAM + 600 mcg QPN (900 mcg TDD)
3	Continue	450 mcg BID (900 mcg TDD)	Continue	450 mcg BID (900 mcg TDD)	Continue	600 mcg BID (1200 mcg TDD)	Continue	600 mcg BID (1200 mcg TDD)
4	Continue	450 mcg BID (900 mcg TDD)	Continue	600 mcg BID (1200 mcg TDD)	Continue	600 mcg QAM + 900 mcg QPM (1500 mcg TDD)	Continue	600 mcg QAM + 900 mcg QPN (1500 mcg TDD
5 (+)	STOP	450 mcg BID (900 mcg TDD)	STOP	600 mcg BID (1200 mcg TDD)	STOP	600 mcg QAM + 900 mcg QPM (1500 mcg TDD)	STOP	900 mcg BID (1800 mcg TDD

Pain Medicine 2016; 17: 899-907

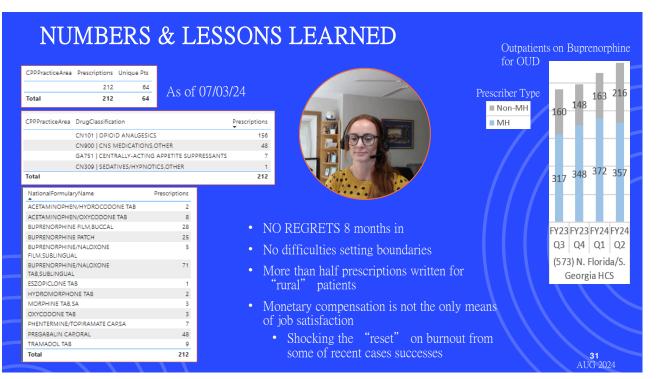
- J Addict Med. 2021 May-Jun:15(3):255-257 Ann Intern Med. 2020;173(1):70-71. Psychiatric Times. 2020 Nov 9;37(11):47-51.

*BBF-buprenorphine buccal formulation

OR

Subst Abuse Rehabil. 2016;7:99-105. Drug Alcohol Rev. 2020;39(5):588-59

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TAKE AWAYS

- Buprenorphine pharmacokinetics are still yet to be fully understood but the medication is believed to be safer than traditional opioids with robust evidence for treatment of both OUD and pain
- DEA licensed Pain CPPs can make positive impact for patients with OUD and/or complex pain
 - Buprenorphine home inductions are feasible!
 - Pain CPPs seem more comfortable with buprenorphine than many other providers and may have ability to follow-up with patients more often potentially leading to greater success rate



THANK YOU

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