ANTHC Clinical ECHO Series

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Contact Hours:

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ANTHC designates this Live Activity for a maximum of 1 AMA PRA Category 1 Credit(s) \mathbb{M} per session. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

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The Alaska Pharmacists Association (AKPhA) is accredited by the Accreditation Council for Pharmacy Education as a provider of continuing pharmacy education. Through a Joint Providership, ANTHC and AKPhA designates this pharmacist activity for a maximum of 1 hours(s) per session. To receive CE credit, participants must be included in attendance record of facilitator/virtual format moderator with the NABP e-profile number including MM/DD birthdate, and complete the evaluation or post session survey. CPE credit will be posted to the online CPE Monitor System within 60 days of activity completion. CPE credit is offered at no charge to ANTHC/SCF employees and AKPhA members. Fees may apply to participants not affiliated with either organization.

Approved for 1 CHAP CE

Conflict of Interest Disclosures:

All Presenters and Conference Planners for this activity do not have any relevant relationships or conflict of interests to disclose.

Requirements for Successful Completion:

To receive CE credit be sure you are included in attendance record as directed by the facilitator/session moderator, and complete the course evaluation or post session survey.

For more information contact Jennifer Fielder at <u>jlfielder@anthc.org</u> or (907) 729-1387

Conflict of Interest Disclosure

Nothing to disclose

Special Considerations for Buprenorphine

ANTHC Addiction ECHO Series Sarah Spencer, DO, FASAM

4/8/2021

Objectives

- Participants will demonstrate knowledge of proper dosage for patients
- Participants will demonstrate understanding of the timing and procedure to administer buprenorphine and manage common side effects
- Participants will understand how to advise patients on the appropriate formulation of buprenorphine

Binds very tightly to opioid mu receptors blocking other opioids

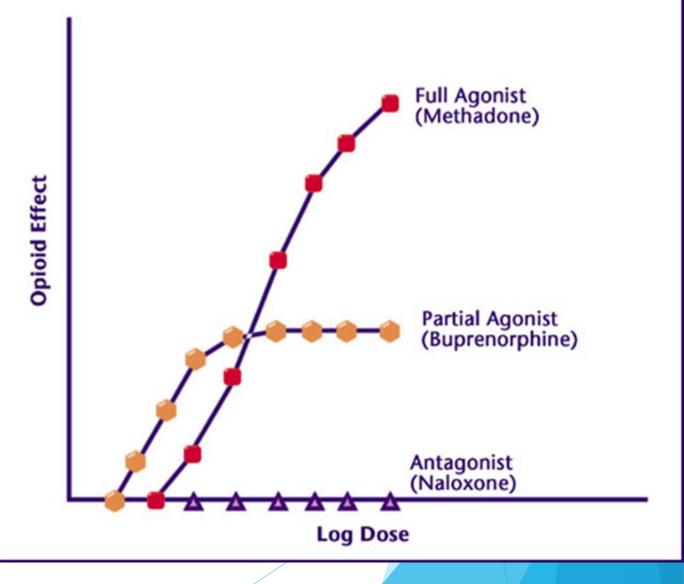
Partially stimulates the mu receptors to relieve craving and withdrawal without causing intoxication

Has a ceiling effect which makes it harder to abuse (taking more does not have more effect)

It stays on the receptors for a long time (half life about 30 hours)

It doesn't cause much respiratory suppression (safer than other opioids)

Buprenorphine Pharmacology



FORMULATIONS OF BUPRENORPHINE



Buprenorphine/naloxone SL/buccal films (Generic/brand, many strengths)

> Sx tel Argodes Buepron

AN'S TORES I PETERTAGRICAL OF STORE Probuphine® (buprenorphine implant) @

6 mo implant (=8 mg)



Buprenorphine SL tab (for pregnancy, 2 & 8mg)

Buprenorphine/naloxone SI tabs (generic/brand)

Korre 415-8 Bypenorphine and Naloxone subligual Tables Demonstration Martine and another Martine another M



Monthly Buprenorphine SQ depot injection

(Transdermal and Buccal Buprenorphine products used for chronic pain (Butrans/ Belbuca) are general considered too low dose to be used in MAT for OUD)

IV Buprenorphine

CHOOSING THE APPROPRIATE FORMULATION OF BUPRENORPHINE

Plain buprenorphine tablets (mono-product)

Limited usage due to increased IV misuse potential. Pregnancy/breastfeeding?? (combo product is OK) Naloxone allergy (rare) Uninsured (lower cost)

Buprenorphine/naloxone strips and tablets (combo product) Naloxone has no clinical effect, only an IV abuse deterrent Most common form used

SQ XR Monthly Buprenorphine (Sublocade)

Highest dose of buprenorphine Lasts longer than a month Useful in patients with medication compliance concerns, diversion concerns or limited access to pharmacy/monitoring

WHEN TO START BUPRENORPHINE

Wait until COWS score 8-12 (2-3 symptoms of withdrawal) 12-24 hours after last dose of heroin or short acting opioids 24-36 hours after last dose of long-acting opioids 36-72 hours after last methadone dose (<30 mg/day)

How to avoid precipitated withdrawal:

The best way to avoid this condition is through patient education. The patient should be informed, prior to the induction appointment, of what precipitated withdrawal is and how they can avoid it. The patient who understands that under reporting last use puts him/her at high risk for rapid and intense onset of withdrawal syndrome, is more likely to accurately report last use."²⁵

ALCULATOR NEXT ST	EPS EVIDENCE	CREATOR
Quantifies severity o	f opiate withrawal.	
When to Use 🗸 🛛 I	Pearls/Pitfalls 🌱	Why Use 💙
Resting Pulse Rate (BPM)	\$80	0
Measure pulse rate after patient is sitting or lying down for 1 minute	81-100	+1
	101-120	+2
	>120	+4
Sweating Sweating not accounts	ed for by room tempe he last 0.5 hours	rature or
No report of chills o	r flushing	
		+1
No report of chills o	f chills or flushing	

COWS Wesson & Ling, J Psychoactive Drugs. 2003 Apr-Jun;35(2):253-9. Clinical Opiate Withdrawal Scale

Resting Pulse		GI Upset: over last 1/2 hour		
	ter patient is sitting or lying for one minute	0 No GI symptoms		
0 Pulse rate 80 or below		1 Stomach cramps		
1	Pulse rate 81-100	2 Nausea or loose stool		
2	Pulse rate 101-120	3 Vomiting or diarrhea		
4	Pulse rate greater than 120	5 Multiple episodes of diarrhea or vomiting		
Sweating: ow	er past 1/2 hour not accounted for by room temperature or patient	Tremor observation of outstretched hands		
activity.		0 No tremor		
0	No report of chills or flushing	1 Tremor can be felt, but not observed		
1	Subjective report of chills or flushing	2 Slight tremor observable		
2	Flushed or observable moistness on face	4 Gross tremor or muscle twitching		
3	Beads of sweat on brow or face	121 Material System and Costs / Amount State / 2019/2019/2019/2019		
4	Sweat streaming off face			
Restlessness	Observation during assessment	Yawning Observation during assessment		
0	Able to sit still	0 No yawning		
1	Reports difficulty sifting still, but is able to do so	1 Yawning once or twice during assessment		
3	Frequent shifting or extraneous movements of legs/arms	2 Yawning three or more times during assessment		
5	Unable to sit still for more than a few seconds	4 Yawning several times/minute		
D		Anxiety or irritability		
Pupil s ize 0	Dende singer I an annual size for an an Kale	0 None		
1	Pupils pinned or normal size for room light	 Patient reports increasing irritability or anxiousness 		
	Pupils possibly larger than normal for room light	2 Patient obviously irritable anxious		
2 5	Pupils moderately dilated Bunils as dilated that such the size of the isis is visible	4 Patient so irritable or anxious that participation in the second se		
3	Pupils so dilated that only the rim of the iris is visible	assessment is difficult		
Bone or Joint	t aches If patient was having pain previously, only the additional	Gooseflesh skin		
component a	ttributed to opiates with drawal is scored	0 Skin is smooth		
0	Not present	3 Piloerrection of skin can be felt or hairs standing up		
1	Mild diffuse discomfort	arms		
2	Patient reports severe diffuse aching of joints/ muscles	5 Prominent piloerrection		
4	Patient is rubbing joints or muscles and is unable to sit still because of discomfort			
Runny nose o	or tearing Not accounted for by cold symptoms or allergies			
0	Not present	Total Score		
1	Nasal stuffiness or unusually moist eyes	The total score is the sum of all 11 items		
2	Nose running or tearing	Initials of person completing Assessment:		
4	Nose constantly running or tears streaming down cheeks			

O points COWS Score

How to administer sublingual buprenorphine

Moisten mouth

•Place the tablet/strip under the tongue until it is dissolved. Do not chew or swallow it

•If you take 2 or more tablets/strips at a time, place all the tablets in different places under the tongue at the same time.

•If this is uncomfortable, place 1 tablet/strip at a time under the tongue and repeat the process until all the tablets have been taken.

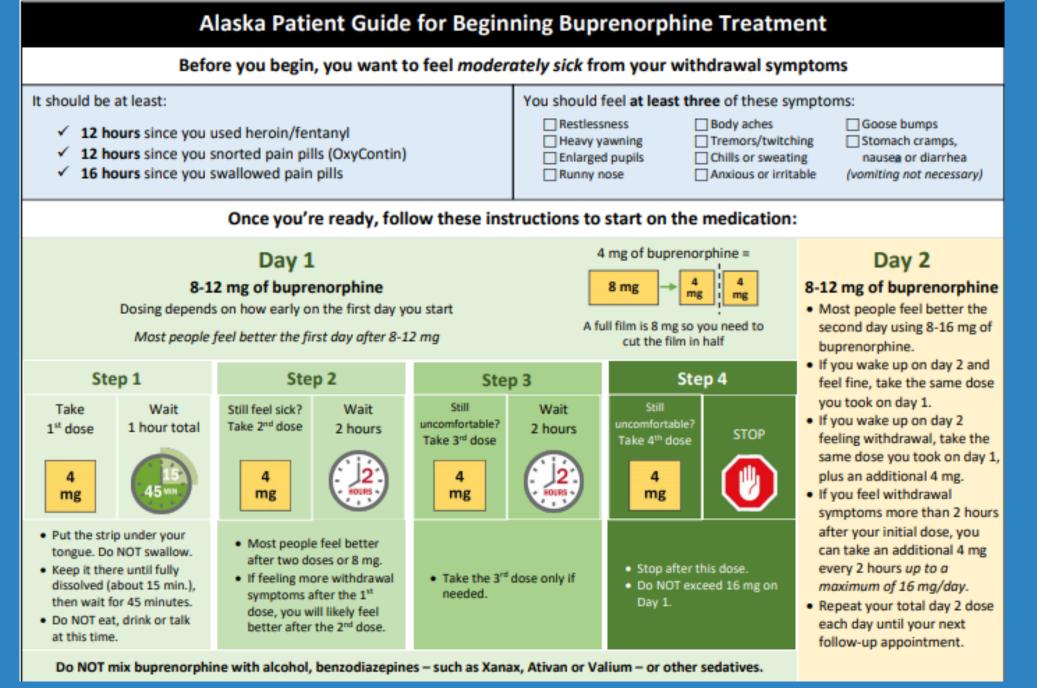
•Do not eat or drink anything for 20 minutes



How to administer sublingual buprenorphine

- OK to cut strips
- Use of crushed tablets under tongue likely OK (DOC studies)
- Designed to dose once per day
- Most patients prefer to split dose bid/tid (especially for pain)





http://dhss.alaska.gov/dbh/Documents/Resources/initiatives/ebp/MAT-ED-Patient-Guide.pdf

Buprenorphine Induction and Dosing Pearls

The right dose is the dose that controls cravings

Start at low dose for tramadol/kratom

Typical effective dose range is 12-24 mg (16+mg most effective)

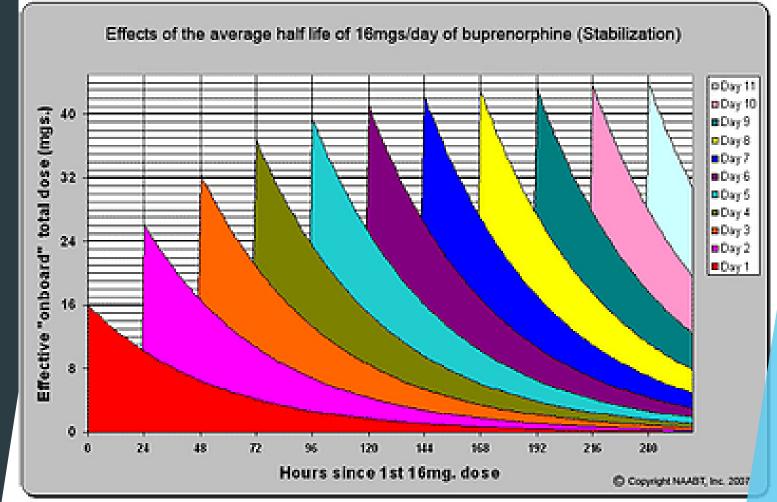
- At higher end doses consider more diversion monitoring (strip counts)
- At low doses watch closely for opioid use (not a full blockade)

Split dosing (up to TID) may be beneficial in patients with chronic pain

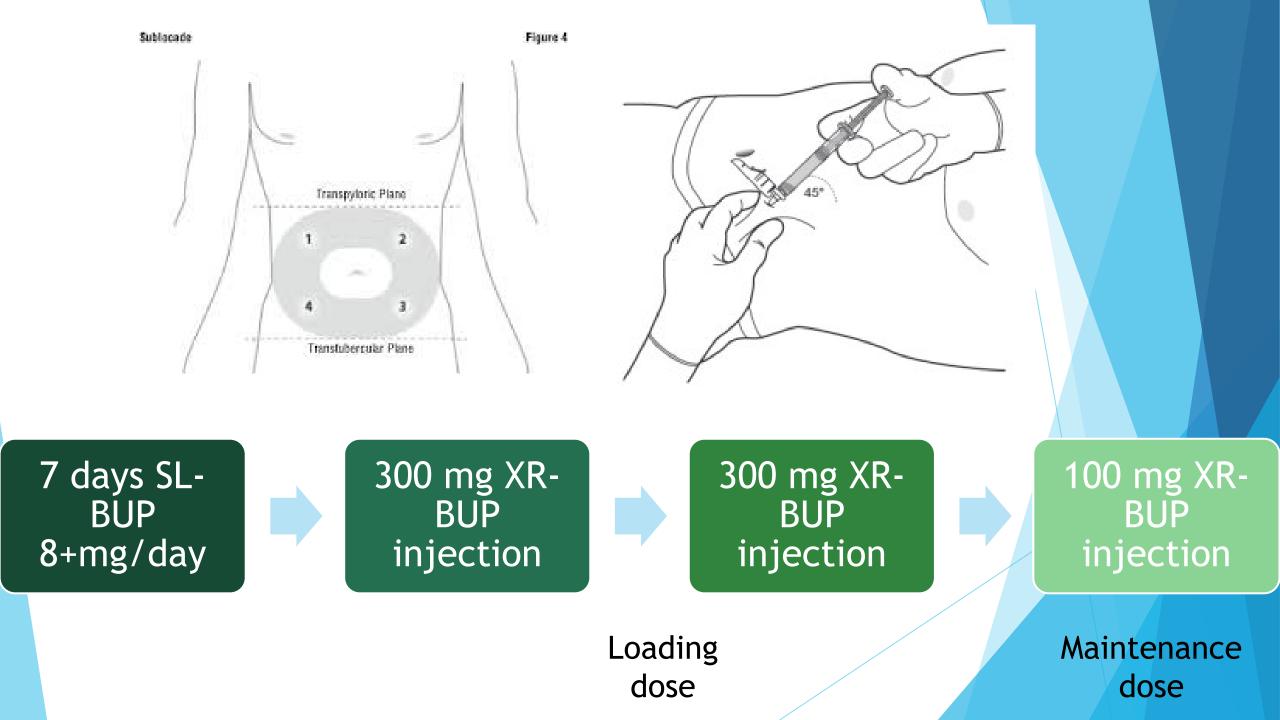
It is normal for cravings to increase and dose increases to be needed during stressful events or change in living situation/health

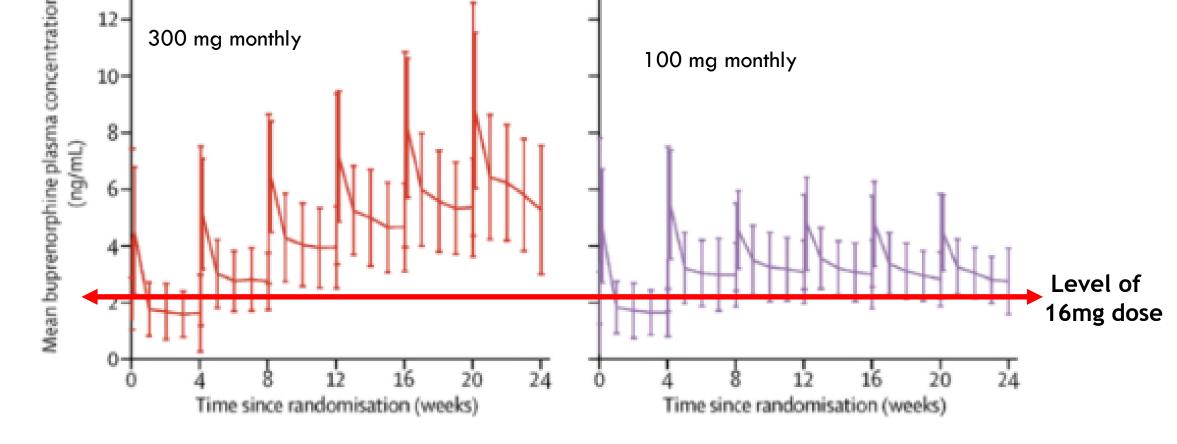
For acute pain can increase to 8 mg q6h (32 mg/day)

It takes about 5 days to reach steady state of serum drug levels



Starting Monthly XR Buprenorphine (XR-BUP) (Sublocade)





BUP-XR provides sustained plasma levels > 2–3 ng/mL, which are needed to block opioid agonist effects thus having an advantage over transmucosal BUP, which might provide this level of blockade only part of the day Haight et al., Lancet 2019

Pharmacokinetic parameters	SUBUTEX daily stabilization		SUBLOCADE		
Mean	12 mg (steady-state)	24 mg (steady-state)	300 mg# (1 st injection)	100 mg* (steady-state)	300 mg* (steady-state)
C _{avg,ss} (ng/mL)	1.71	2.91	2.19	3.21	6.54
C _{max,ss} (ng/mL)	5.35	8.27	5.37	4.88	10.12
C _{min,ss} (ng/mL)	0.81	1.54	1.25	2.48	5.01

During the first month of Sublocade, the serum drug levels drop to levels that may not be therapeutic for some patients, thus supplemental sublingual dosing is indicated in patients who experience craving or withdrawal in early treatment

XR-BUP may be started **sooner** than 7-day stabilization period, may be **empirically kept at 300mg monthly**, and may require supplemental SL BUP during early treatment months

Real-world outcomes with extended-release buprenorphine (XR-BUP) in a low threshold Bridge clinic

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> The authors have no relevant conflicts of interest or financial disclosures.





Consider giving injection prior to 7 days of SL-BUP in high-risk patients who have mod-high levels of opioid tolerance and have tolerated buprenorphine 16mg/day well in the past

Managing side effects

<u>Nausea is very common</u>, is not a sign of allergy and usually resolves within 2 week. Consider giving all patients Rx for ondansetron. Switching to a different brand can also help.

Supportive medications for opioid withdrawal management:

- Myalgias: NSAIDS and Acetominophen
- Muscle spasms: Tizanidine
- Nausea: Ondansetron or Promethazine
- Restlessness and sweating: Clonidine
- Anxiety and rhinorrhea: Hydroxyzine
- Insomnia: Trazodone

References

The ASAM **NATIONAL PRACTICE GUIDELINE** For the Treatment of

For the Treatment of Opioid Use Disorder

2020 Focused Update

https://www.asam.org/Quality-Science/quality/2020-national-practiceguideline

State of Alaska MEDICATIONS FOR ADDICTION TREATMENT GUIDE

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Key components for delivering community-based, medications for addiction treatment services for opioid use disorders in Alaska.

http://dhss.alaska.gov/dbh/Pages/Initiatives/EvidenceB asedPractices/MAT.aspx

Case Presentation

Project ECHO's goal is to protect patient privacy

To help Project ECHO accomplish that goal, please only display or say information that doesn't identify a patient or that cannot be linked to a patient.

References: For a complete list of protected information under HIPAA, please visit www.hipaa.com

Thank you for joining us today. We appreciate your participation and hope to see you at the <u>NEXT ECHO Session:</u> April 22, 2021 from 12pm -1 PM

You will be receiving a follow up survey that we hope you will complete to help us improve. If you are requesting continuing education credits, you will be required to complete the survey to receive your CEs.

