

Northwest ATTC & CTN Western States Node present:

Buprenorphine for the Treatment of Opioid Use Disorders: An Overview

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Today's Presenter

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- Co-Principal Investigator of the Western States Node of the NIDA Clinical Trials Network









Buprenorphine for the Treatment of Opioid Use Disorders, an Overview

P. Todd Korthuis, MD, MPH

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Objectives

- Understand the biological basis of medications to treat opioid use disorder.
- 2) Review recent data on the effects of buprenorphine on patient outcomes.
- 3) Introduce tools for integrating buprenorphine treatment into your current treatment setting.

Medications are Current Standard of Care for Treatment of Opioid Use Disorder

- Use of medications like buprenorphine, methadone, or naltrexone to treat opioid use disorder is now considered best practice.
- States are increasingly requiring treatment programs to offer medications for opioid use disorder (MOUD) in order to participate in Medicaid programs or SAMHSA funding.

Limited Uptake of Buprenorphine

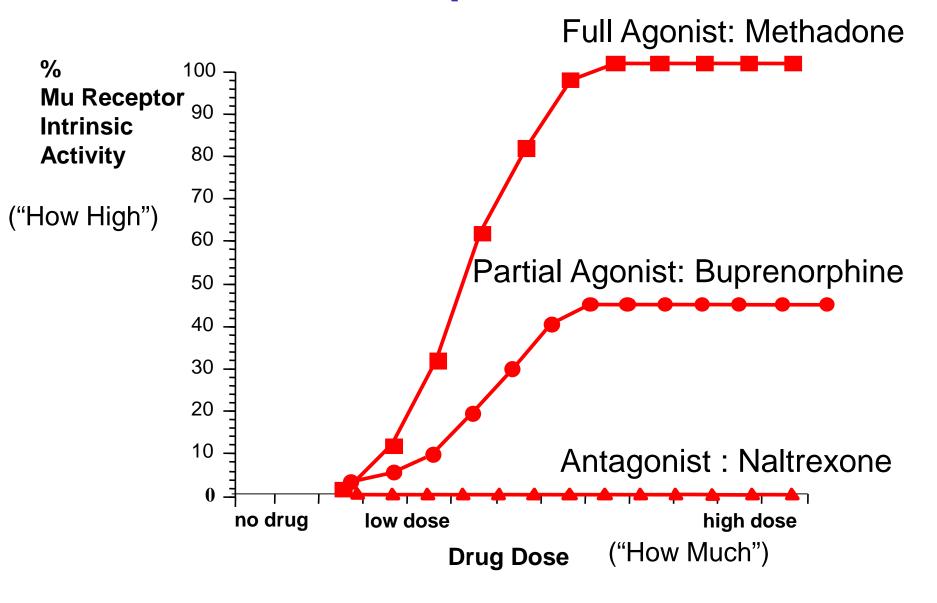
- Only one third of addiction treatment programs offer medications for treatment of OUD¹
- 43% of U.S. counties have no waivered buprenorphine prescriber²
 - Many waivered providers don't prescribe
- Barriers to adoption include:³
 - Lack of belief in agonist treatment
 - Lack of time for new patients
 - Belief that reimbursement rates insufficient

¹ Knudsen HK, J Addict Med 2011

² Stein BD, Milbank Quarterly 2015

³ Huhn AS, JSAT 2017

Medications for Opioid Use Disorder



Buprenorphine/naloxone

(4:1 combination)

- Partial opioid agonist
 - Decreased overdose risk

- Naloxone inactive unless injected –then precipitates withdrawal
 - Decreased abuse risk
- Sublingual, once daily
 - Safe for flexible dosing

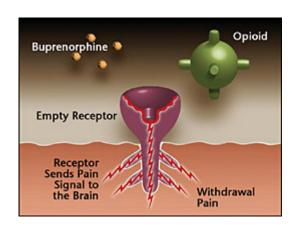


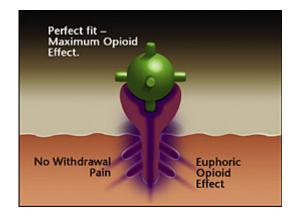


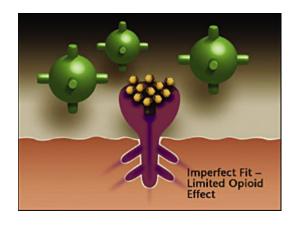


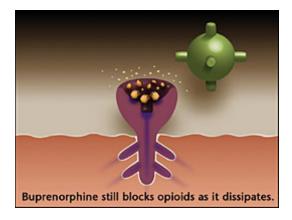
8mg/2mg

How Does Buprenorphine Work?

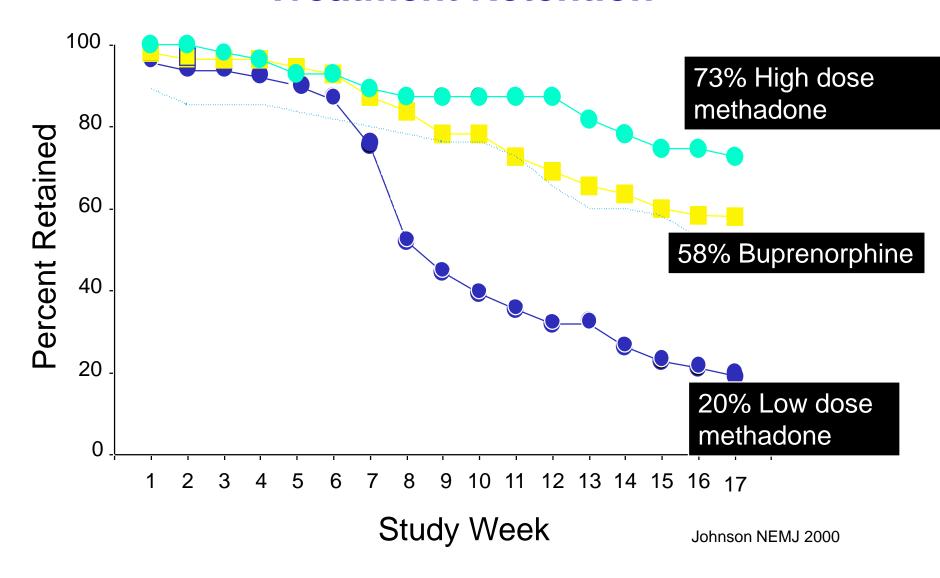




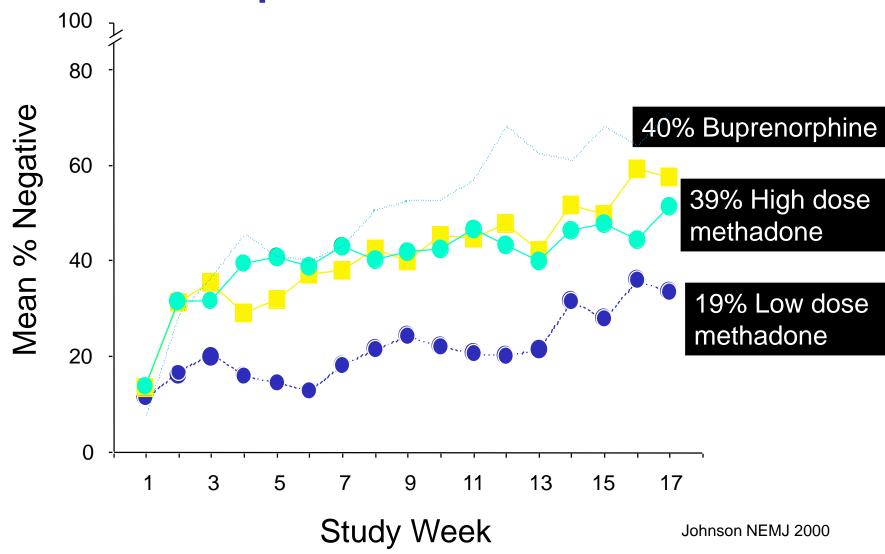




Buprenorphine vs. Methadone Treatment Retention

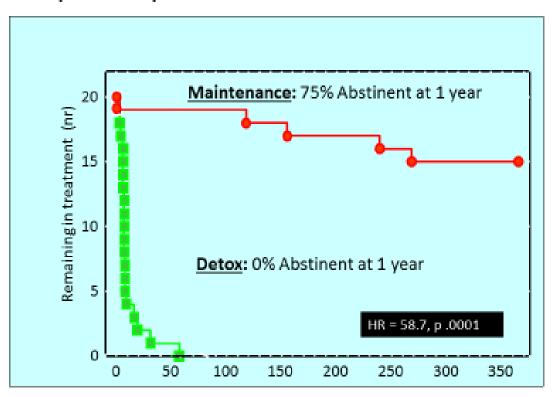


Buprenorphine vs. Methadone Opioid Urine Results



Buprenorphine Maintenance is Effective... Detox Is Not

Treatment Retention:
Buprenorphine Detox vs. Maintenance



Deaths:

0% Maintenance

20% Detox

Kakko, Lancet 2003

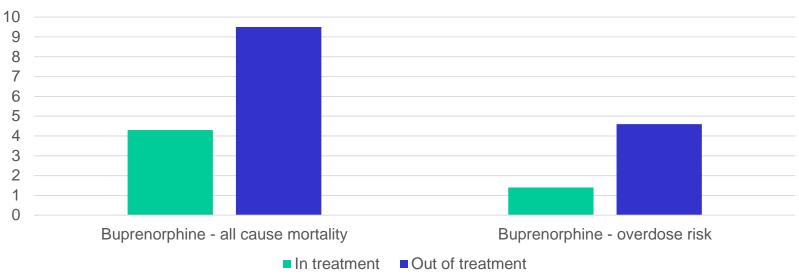
Detox vs. Maintenance: Which is Better?

- Multi-site trial of buprenorphine/nx for 653 prescription opioid-dependent patients in 10 primary care clinics
- Detox phase followed by maintenance phase for those who relapse
- "Success" = minimal or no use on UDS & selfreport

Success at 12 Weeks:				
Detox Phase:	6.6%			
Maintenance Phase:	49.2%			

Mortality Risk During and After Buprenorphine Treatment





Tools for Implementing Buprenorphine Clinical Practice

Updated OUD Treatment Guidelines



Integrating Buprenorphine into Clinical Practice

- Preparing the Whole Team
 - Front desk/phone room staff
 - Medical assistant
 - Nurse
 - Physicians
 - Counselor
 - Clinic medical director
- Designate a coordinator ("the glue person")
- OK to start small and slow -- just start!

Essential Treatment Team Training

Goal: Develop Shared Philosophy and Scope

- Recognizing & monitoring withdrawal symptoms (vs. "acting out")
- Importance of timely buprenorphine refills
 - (vs. "we'll let the provider know...")
- Embrace substance use disorder as medical condition (vs. moral failure)
- Urine toxicology screening as medical safety, (vs. policing activity)
- Relapse is common and does not equal failure
 - Goal is to limit duration and build on success
- Timing of buprenorphine induction

Who Does What?

- Front desk/phone room staff
 - Scheduling, face/voice of practice
- Medical assistant or Nurse
 - Measure COWS during induction; collect/run UDS; PDMP checks
- Primary care provider
 - Confirm DSM-5 diagnosis, assess comorbid conditions, monitor progress
- Counselor
 - Behavioral counseling, monitoring
- Clinic medical director
 - Ensure protocols

Prior to Induction

- Counsel patient on
 - Alternatives
 - Induction timing
 - Precipitated withdrawal
 - Need for behavioral treatment
- Treatment agreement
- Labs:
 - UDS, HIV, HCV, HBV, HCG, liver enzymes
- Write prescription

Timing of Buprenorphine Induction

- Schedule patient for induction soon after intake visit
- Must be in at least mild-to-moderate opioid withdrawal in order to begin induction
 - The more severe the withdrawal, the greater the relief
- Withdrawal symptoms typically begin
 - 12-24 hours after last dose of a short-acting opioids like heroin
 - 2-4 days after last dose of long acting opioids like methadone

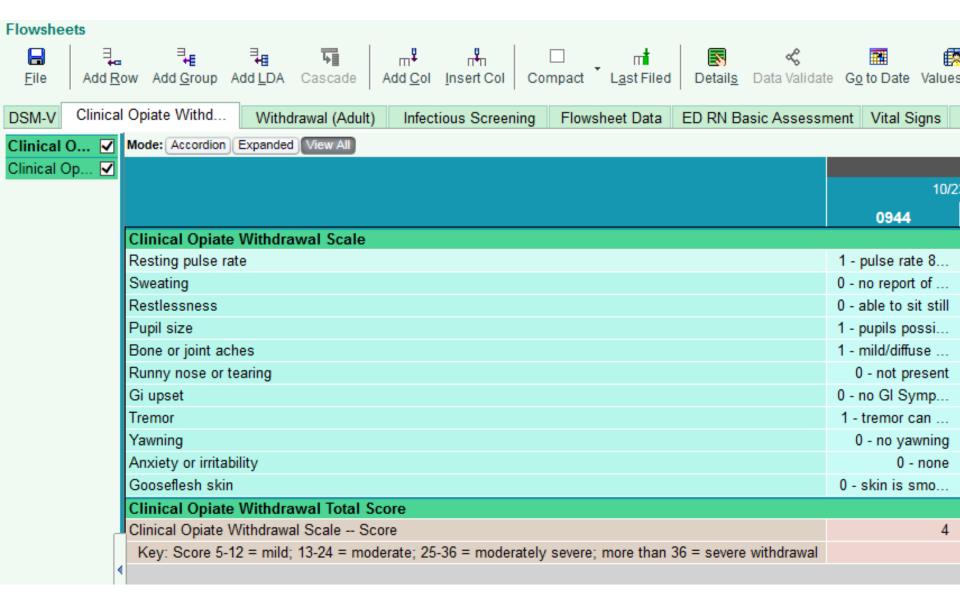
Clinical Opioid Withdrawal Scale (COWS)

Rates 11 Withdrawal Symptoms:

- Resting pulse rate
- Sweating
- Restlessness
- Pupil size
- Bone or joint aches
- Runny nose

- Gl upset
- Tremor
- Yawning
- Anxiety or irritability
- Goose bumps

- Guides timing of first dose of buprenorphine
- Typically safe to give 1st dose when COWS > 8



Withdrawal severity:

Mild 5-12; Moderate 13-24; Moderately severe 25-36; Severe >36

Buprenorphine/Naloxone Treatment Phases

- Induction (1-3 days)
 - Must be in moderate withdrawal
 - Start with 4mg and gradually increase
 - Titrate to effect (average dose 16mg)
- Stabilization/Maintenance
 - Combine with random UDS & counseling, if available
 - Lack of counseling shouldn't prevent treatment
 - Provider medical management as "counseling"
 - Patients typically continue buprenorphine for years

Induction & Stabilization Dosing Schedule

Tailor to Patient

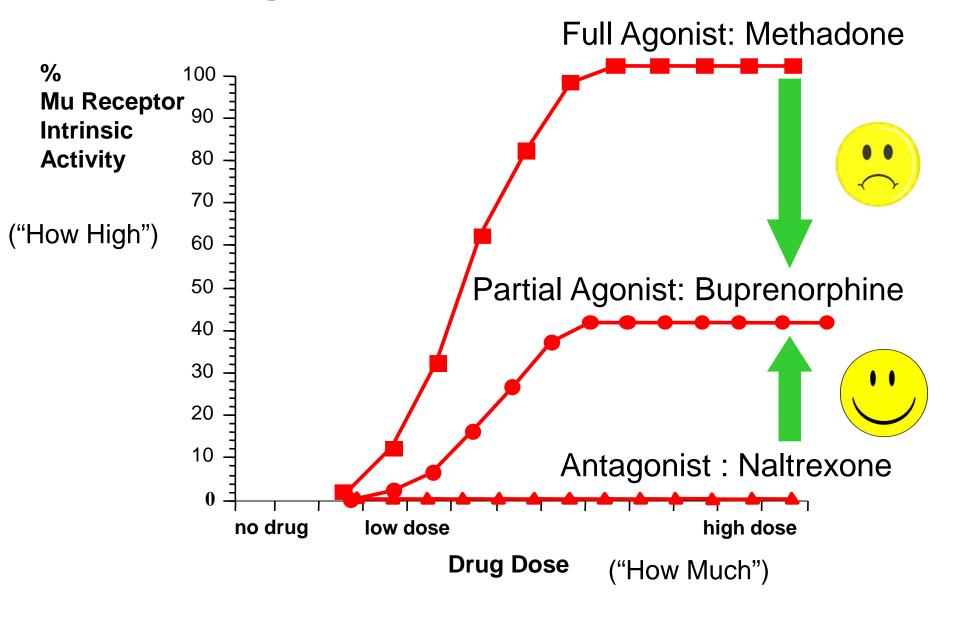
	Suggested Dosing*	Maximum Dose*		
Day 1	2-4mg (wait 45 min) + 4mg if needed	8-12mg		
Day 2	Day 1 dose + 4mg if needed (single dose)	12-16mg		
Day 3	Day 2 dose + 4mg if needed (single dose)	16mg		
Day 3-28	May increase dose 4mg per week, if needed (single dose)	24mg		

*Suboxone equivalents dose:

8mg Suboxone = 5.7mg Zubsolv, 4.2mg Bunavail

SAMHSA, *Medications for Opioid Use Disorder*. Treatment Improvement Protocol (TIP) Series 63; 2018. Available at

Avoiding Precipitated Withdrawal



Management of Precipitated Withdrawal

- If a participant develops signs or symptoms of opioid withdrawal after dosing with buprenorphine, the medical clinician can:
 - Administer non-narcotic medications that provide symptomatic relief
 - Increase the dose of BUP/NX to overcome withdrawal symptoms

Typical Office-Based Treatment Schedule

A Rough Guide—Tailor to Practice & Patient

	Before Induction	Induction (Days 1-3)	Month 1	Month 2	Month 3 and after
Prior auth	X				
Treatment Agreement	X				
Clinic Visit	X	2x/week	Weekly	Every 2 weeks	Every 4 weeks
Counseling	X		Weekly	Every 2 weeks	Every 4 weeks
Refill	-	1-3 day supply	7 day supply	14 day supply	28 day supply
UDS	X	X	weekly	every 2 wks	monthly
Labs	X (HIV,	HCV, HBV, urine			
PDMP	X (then	with refills at leas	st monthly)		

- Very stable patients often require less frequent visits & UDS
- Recurrence of use reverts to Month 1 schedule until stable again

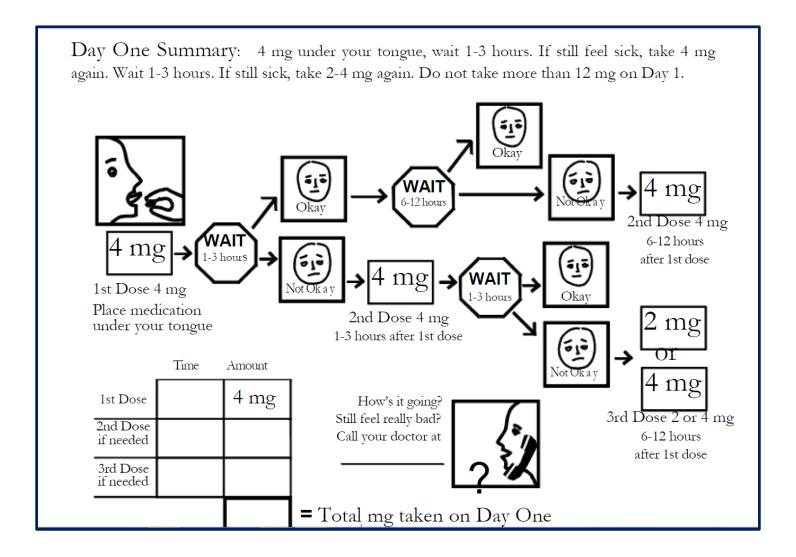
Timing of Buprenorphine Induction

- Schedule patient for induction soon after intake visit
 - Or provider education on home induction
- Must be in at least mild-to-moderate opioid withdrawal in order to begin induction
 - The more severe the withdrawal, the greater the relief
- Withdrawal symptoms typically begin
 - 12-24 hours after last dose of a short-acting opioids like heroin
 - 2-4 days after last dose of long acting opioids like methadone

Home Induction

- Office-based induction can be a barrier to initiation
- Pilot trials of home vs. office-based inductions demonstrate comparable retention rates and safety
- Patient selection:
 - Understands induction process
 - Prior bup experience predicts success
 - Can contact provider for problems
- Provider available for phone consultation

Home Induction Hand-Out



When Patients Misuse or Divert

- Stress willingness to continue working together, and...
- Consider higher level of care
 - Increase visit frequency?
 - Referral for dispensary-based buprenorphine/methadone?
 - Referral for residential treatment?
 (but...make sure "higher level of care" ≠ "no care")
- Consider switch to long-acting naltrexone or buprenorphine

Provider Implementation Resources

- USCF Substance Use Consultation "Warm Line"
 - (855) 300-3595; Mon-Fri, 10:00am-6:00pm ET
- Provider Clinical Support System (PCSS)
 - https://pcssnow.org/
- STR-Technical Assistance Practice & systems mentoring
 - https://www.getstr-ta.org/
- ECHO Provider mentoring
 - https://echo.unm.edu/opioid-focused-echo-programs/
- SAMHSA, Medications for Opioid Use Disorder. Treatment Improvement Protocol (TIP) Series 63; 2018. Available at https://store.samhsa.gov/product/SMA18-5063FULLDOC

Questions? Please type them in the chat box!

