



Providers
Clinical Support
System

MAT Waiver Eligibility Training (Live Session)

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The Half and Half Course

Agenda

- Overview: Opioid Use Disorder Treatment with Buprenorphine/Naloxone - *(0.5 hours)*
- Patient Evaluation - *(0.75 hours)*
- Specialty Topics - *(0.75 hours)*
- Case Study - *(0.25 hours)*
- Medication Assisted Treatment Clinical Application - *(0.5 hours)*
- Case Study - *(0.25 hours)*
- Urine Drug Testing - *(0.5 hours)*
- Case Study - *(0.25 hours)*
- Overview of Clinical Tools - *(0.25 hours)*
- Completing the Notification of Intent Waiver Form - *(0.25 hours)*

Speaker Intro



Overview: Opioid Use Disorder Treatment with Buprenorphine/Naloxone

Target Audience

The overarching goal of PCSS is to train a diverse range of healthcare professionals in the safe and effective prescribing of opioid medications for the treatment of pain, as well as the treatment of substance use disorders, particularly opioid use disorders, with medication-assisted treatments.



History of Opioids

- Utilized throughout the world for various uses for thousands of years
- 1800's:
 - Morphine and Heroin were marketed commercially as medications for pain, anxiety, respiratory problems
 - Invention of Hypodermic syringe allowed for rapid delivery to the brain



Pivotal Milestones in Treatment

Year	Milestone
1970	Methadone is approved by the FDA for <u>detoxification</u>
1973	Methadone is approved by the FDA for <u>maintenance</u>
1974	Opioid Treatment Programs (OTP's) able to dispense Methadone for maintenance treatment
1984	Oral Naltrexone is approved by the FDA
2000	Drug Addiction Treatment Act of 2000 (DATA 2000) allowed qualified physicians to offer Office Based Opioid Treatment (OBOT)
2002	Buprenorphine is approved by the FDA
2010	Extended-release injectable naltrexone is approved by the FDA
2016	Comprehensive Addiction and Recovery Act (CARA) - Allows Nurse Practitioners and Physician Assistants to become eligible to prescribe buprenorphine for treatment of opioid use disorder

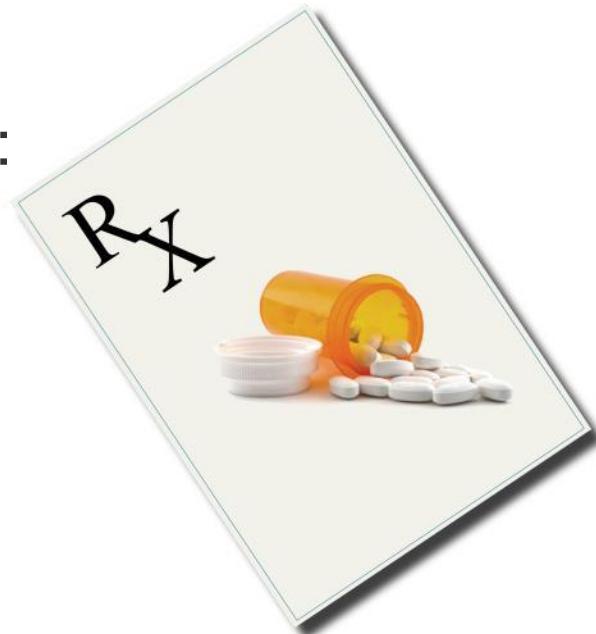
DATA 2000 – Practitioners Requirements

- ✓ ▪ Licensed provider with DEA Registration
- ✓ ▪ Subspecialty training in addictions or completion of an 8-hour course
- ✓ ▪ Registration with SAMHSA and DEA
- ✓ ▪ Must affirm the capacity to refer patients for appropriate counseling and ancillary services
- ✓ ▪ Must adhere to patient panel size limits
 - 30 during the first year
 - Eligible to apply for increase to 100 after the first year
 - May apply to increase to 275 after being at 100 for a year and meeting specific criteria.

Drug Addiction Treatment Act (DATA 2000)

Permitted physicians who met certain qualifications to treat opioid addiction with:

- Schedule III, IV, and V narcotic medications that had been specifically approved by the FDA or combination of such drugs for the treatment of opioid dependence
- In treatment settings other than the traditional Opioid Treatment Program ("methadone clinic") settings



DEA Enforcement of DATA 2000

- The Drug Enforcement Administration (DEA) is responsible for ensuring that physicians who are registered with DEA pursuant to the DATA 2000 are in compliance with the Controlled Substance Act.
- The primary purpose of the inspection is to ensure compliance with the recordkeeping and appropriate prescribing of controlled substances under CSA and DATA 2000.
- You must keep a log of patients who are treated with buprenorphine,
- If you have this information easily accessible, the inspection should be fairly rapid and non-onerous.

TIP 40: Clinical Guidelines for the Use of Buprenorphine in the Treatment of Opioid Addiction, Chapter 6, pp 79-85;

Treatment Goals

- Range of treatment goals

Minimization
of harms from
ongoing use

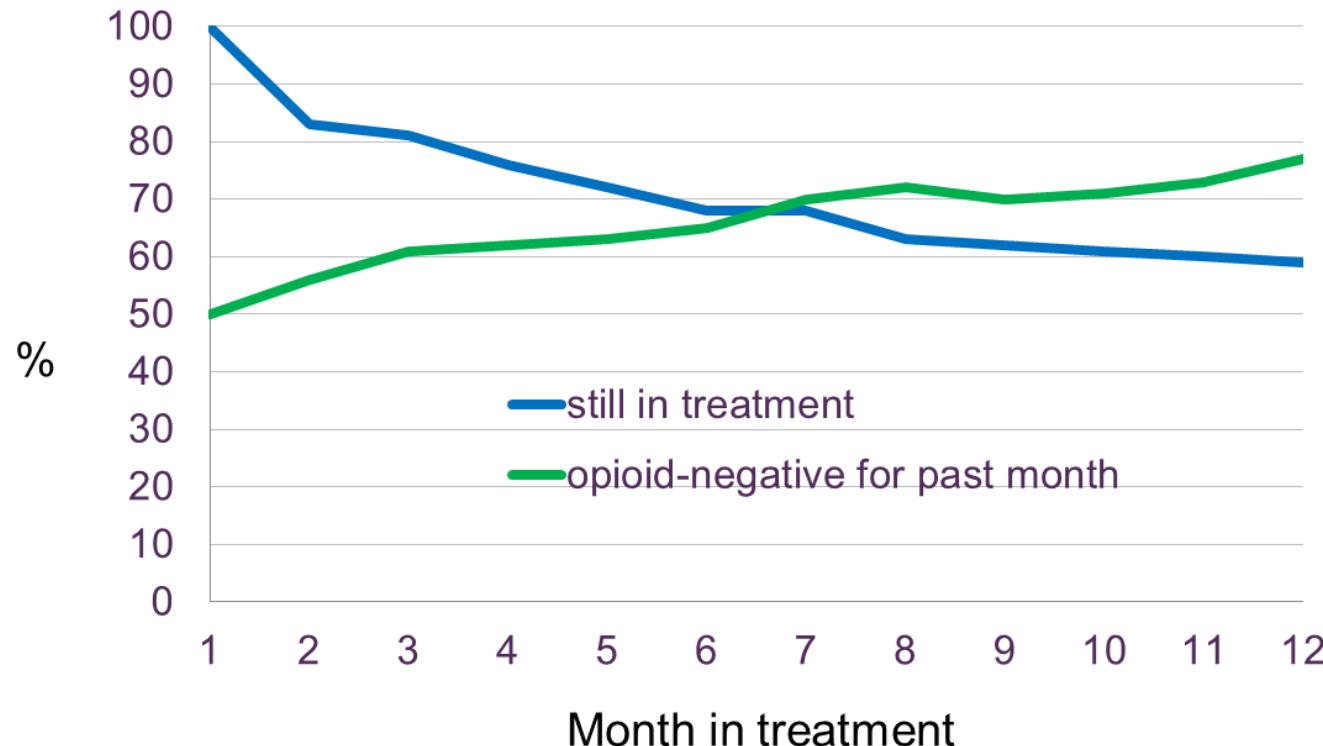


Sustained recovery
with abstinence
from all substances

- Treatment Options; Federations of State Medical Boards 2013
 - Partial Agonist (Buprenorphine) at the mu-receptor – OBOT/OTP
 - Agonist (Methadone) at the mu-receptor - OTP
 - Antagonists (Naltrexone) at the mu-receptor
 - Simple detoxification and no other treatment
 - Counseling and/or peer support without MAT
 - Referral to short or long term residential treatment

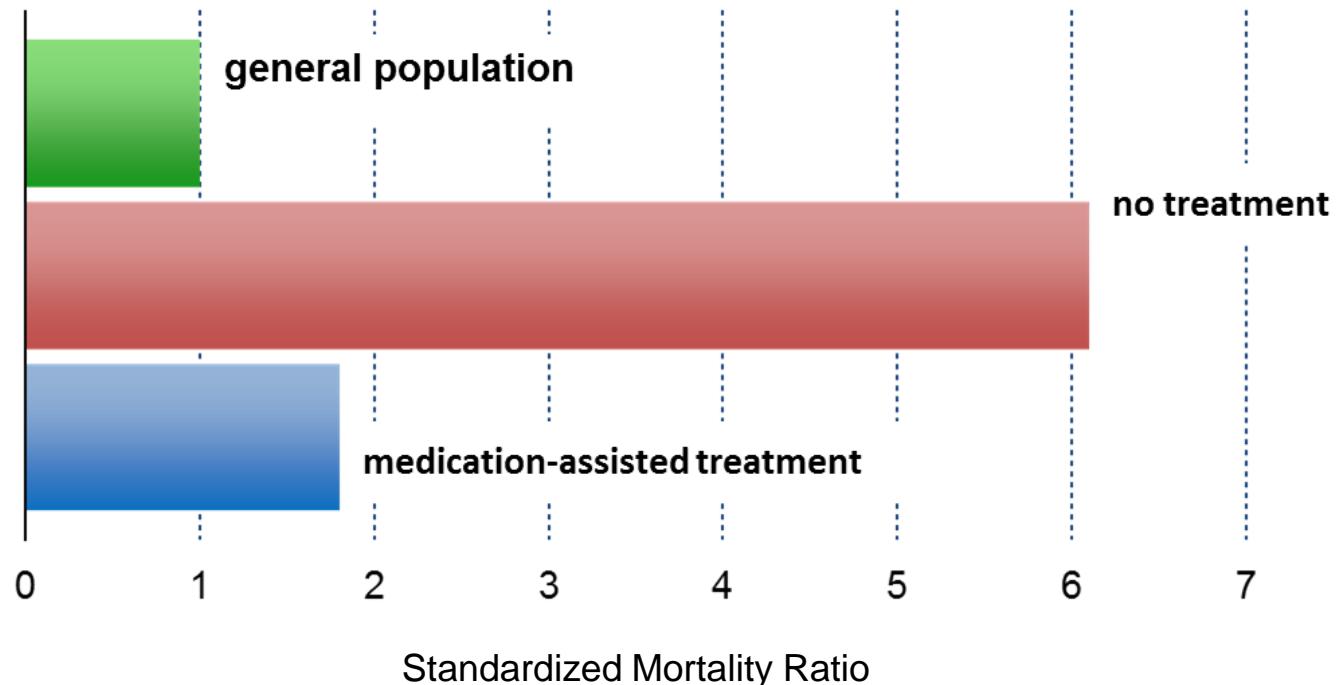
Treatment Retention and Decreased Illicit Opioid Use on MAT

- Buprenorphine promotes retention, and those who remain in treatment become more likely over time to abstain from other opioids



Benefits of MAT: Decreased Mortality

Death rates:



Summary

- A number of legislative initiatives have been passed to improve access to treatment for opioid use disorders
- DATA 2000 allows for the treatment of opioid use disorder to be treated outside of an Opioid Treatment Program with schedule III, IV, or V medications approved by the FDA.
- MAT for opioid use disorder has several benefits including:
 - Decrease in the number of fatal overdoses
 - Increase patients' retention in treatment, and improved social functioning

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Pharmacology

Major Features of Methadone

Full Agonist at mu receptor

Long acting

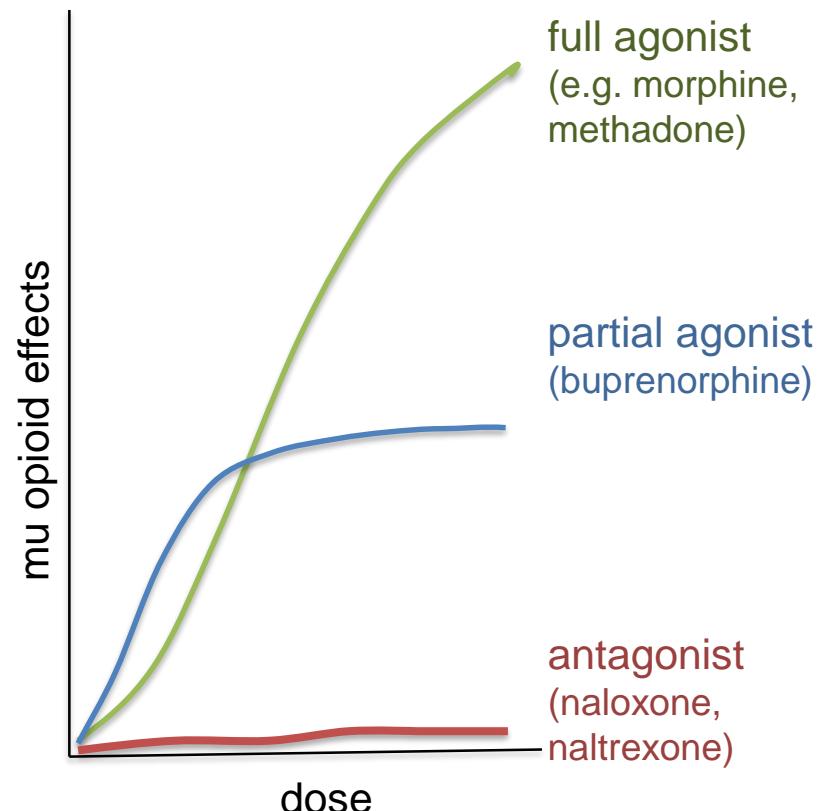
- Half-life ~ 15-60 Hours

Weak affinity for mu receptor

- *Can be displaced by partial agonists (e.g. buprenorphine) and antagonists (e.g. naloxone, naltrexone), which can both precipitate withdrawal*

Monitoring

- Significant respiratory suppression and potential respiratory arrest in overdose
- QT prolongation



Major Features of Buprenorphine

Partial agonist at mu receptor

- Comparatively minimal respiratory suppression and no respiratory arrest when used as prescribed

Long acting

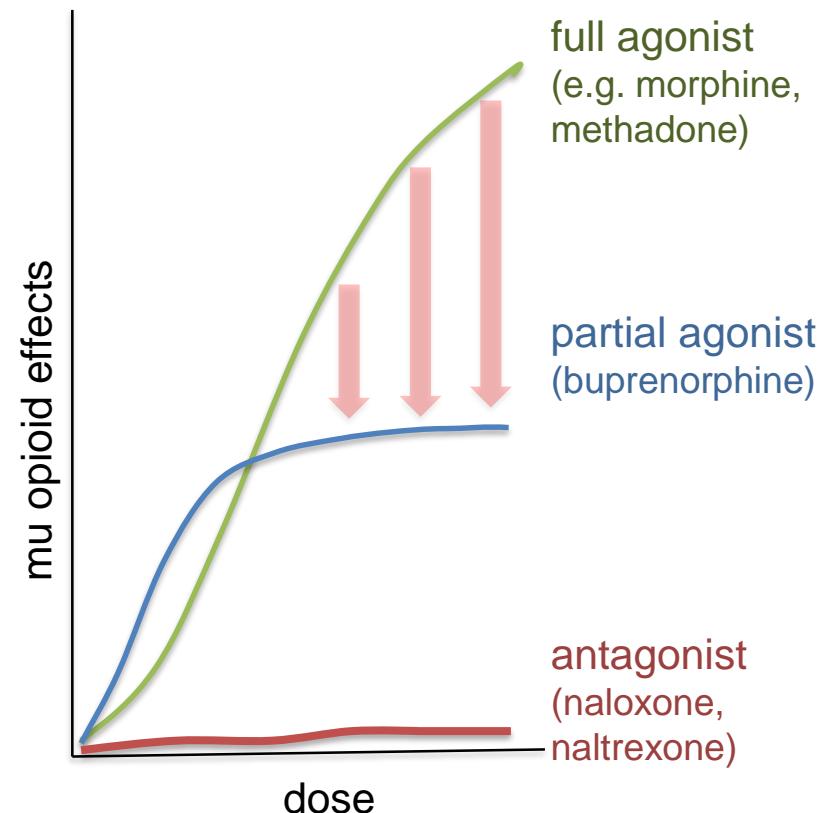
- Half-life ~ 24-36 Hours

High affinity for mu receptor

- *Blocks* other opioids
- *Displaces* other opioids
 - Can precipitate withdrawal

Slow dissociation from mu receptor

- *Stays on receptor for a long time*



Major Features of Naltrexone

Full Antagonist at mu receptor

- Competitive binding at mu receptor

Long acting

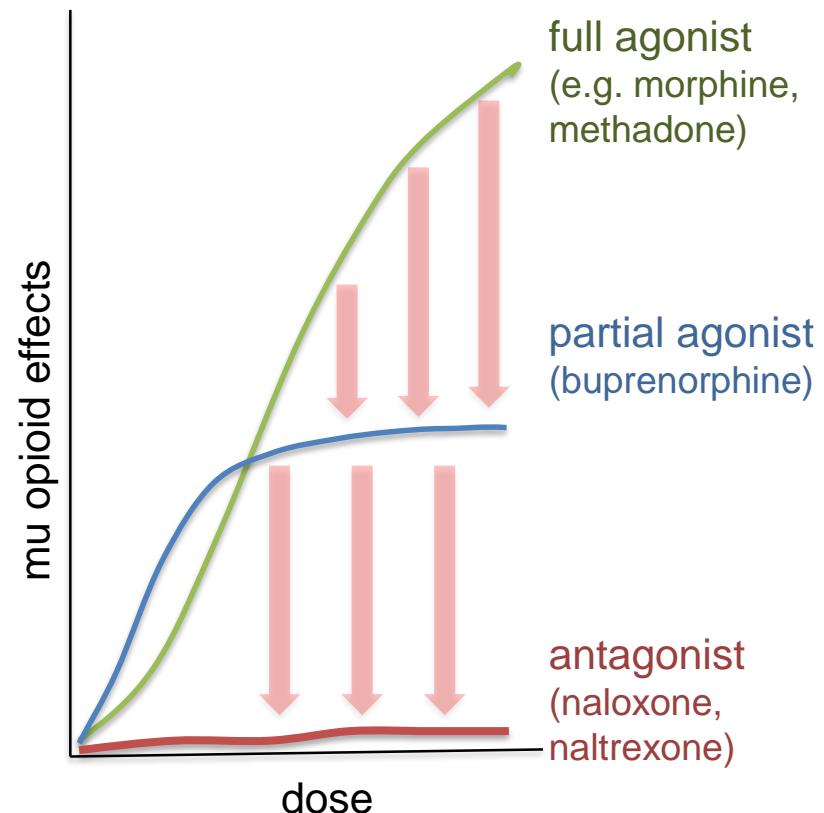
- Half-life:
 - Oral ~ 4 Hours
 - IM ~ 5-10 days

High affinity for mu receptor

- *Blocks* other opioids
- *Displaces* other opioids
 - Can precipitate withdrawal

Formulations

- *Tablets: Revia®: FDA approved in 1984*
- *Extended-Release intramuscular injection: Vivitrol®: FDA approved in 2010*



Buprenorphine

- Semi-synthetic analogue of thebaine
- Approved by the FDA in 2002 as a Schedule III medication for the treatment of opioid use disorder
- Metabolized in the liver, mainly by cytochrome P450 3A4 (CYP3A4), and has a less-active metabolite, norbuprenorphine
- Most buprenorphine is ultimately excreted into the biliary tract, but small fractions enter the urine and are detectable in urine drug tests
- Because of extensive first-pass metabolism, buprenorphine has poor oral bioavailability when swallowed (<5%), and all therapeutic formulations use other routes
- Sublingual administration bypasses first-pass metabolism and allows bioavailability around 30%



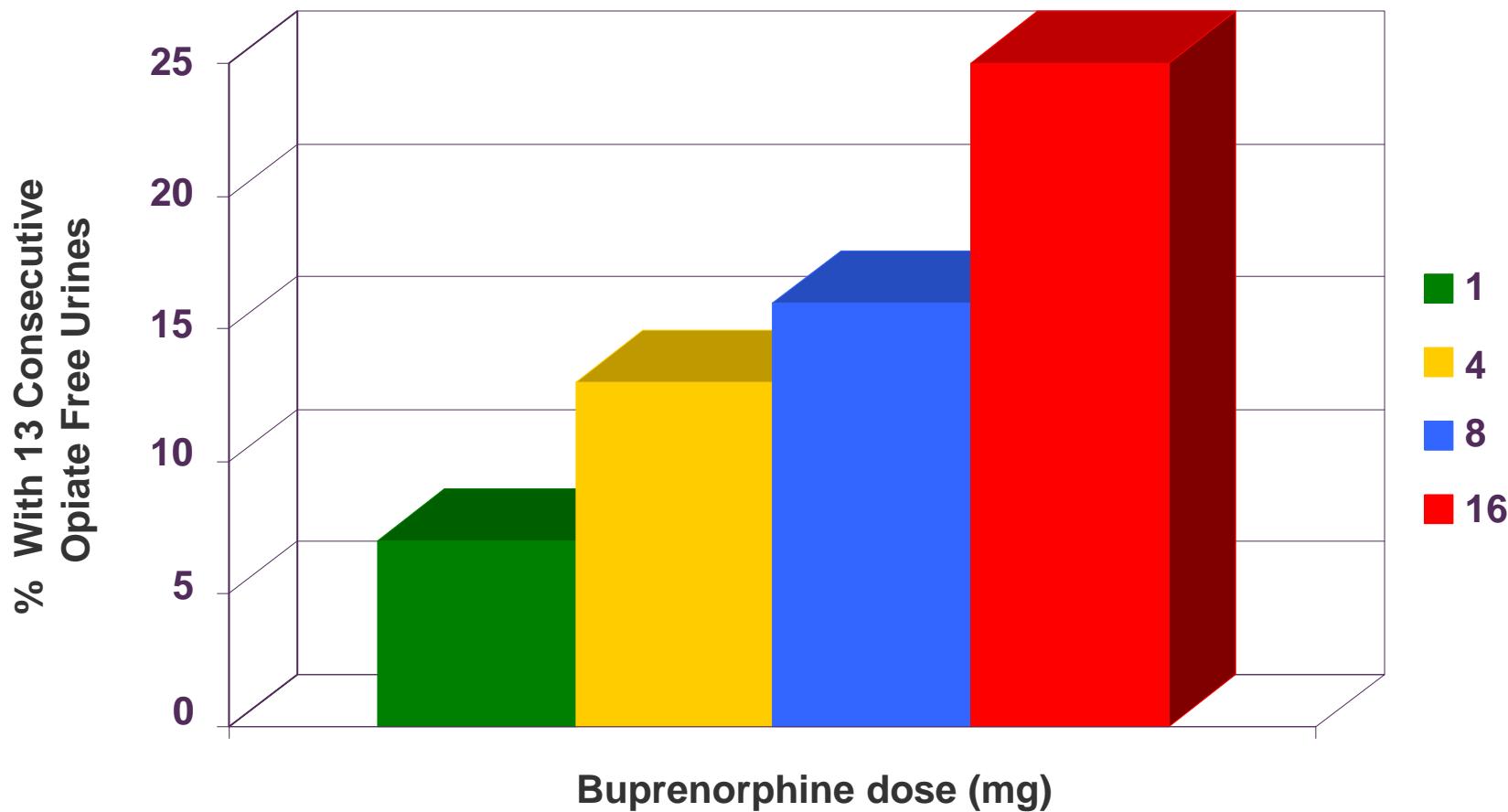
How Does Buprenorphine Work?

- AFFINITY is the strength with which a drug physically binds to a receptor
 - Buprenorphine has strong affinity; will displace full mu receptor agonists like heroin and methadone
 - Receptor binding strength, is NOT the same as receptor activation
- DISSOCIATION is the speed (slow or fast) of disengagement or uncoupling of a drug from the receptor
 - Buprenorphine dissociates slowly
 - Buprenorphine stays on the receptor a long time and blocks heroin, methadone and other opioids from binding to those receptors

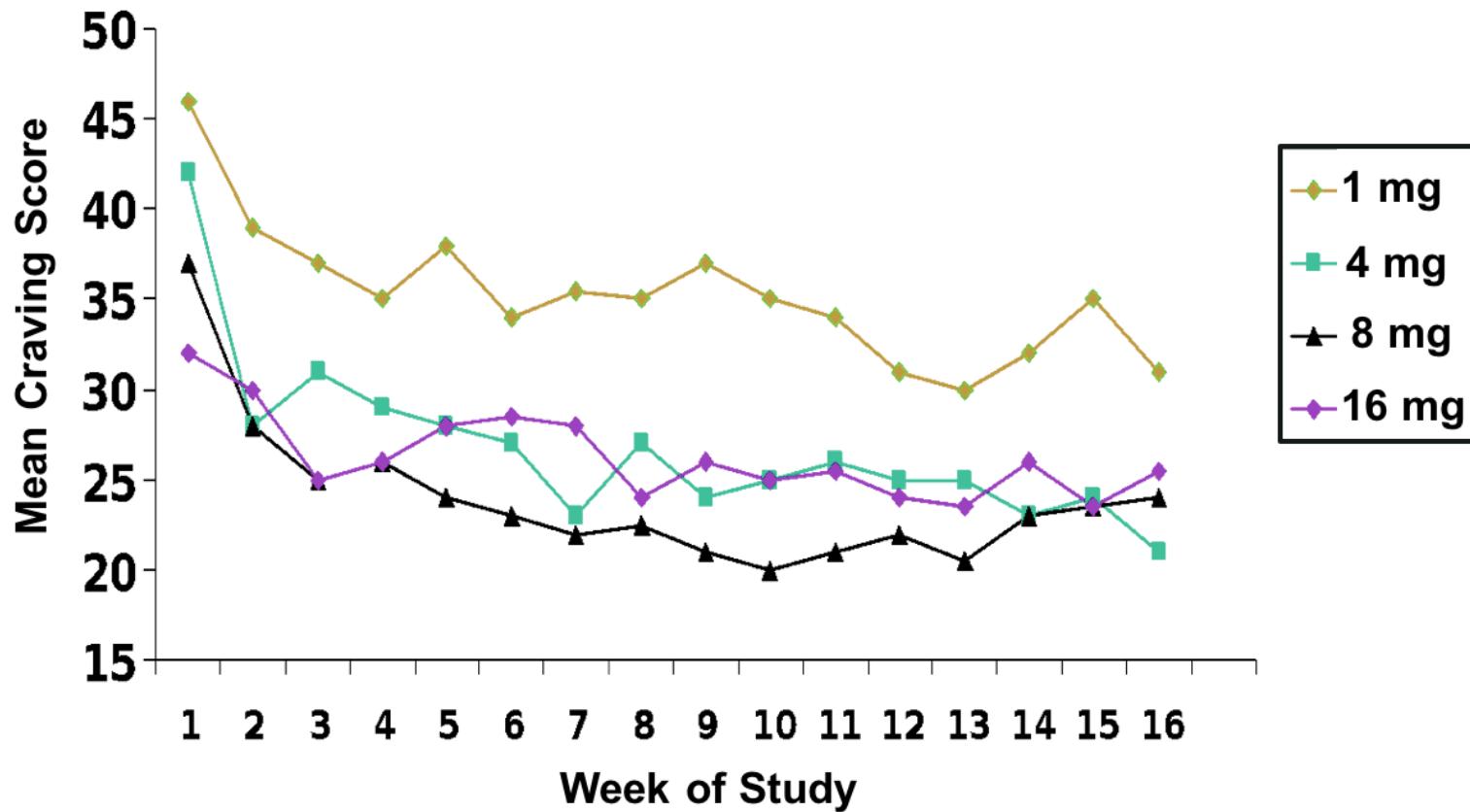


NOTE: It is unlikely to block *all* effects from an opioid taken after initiation of buprenorphine treatment. Because binding to mu receptors is a dynamic process; while effects may be less, they are not likely to be completely eliminated.

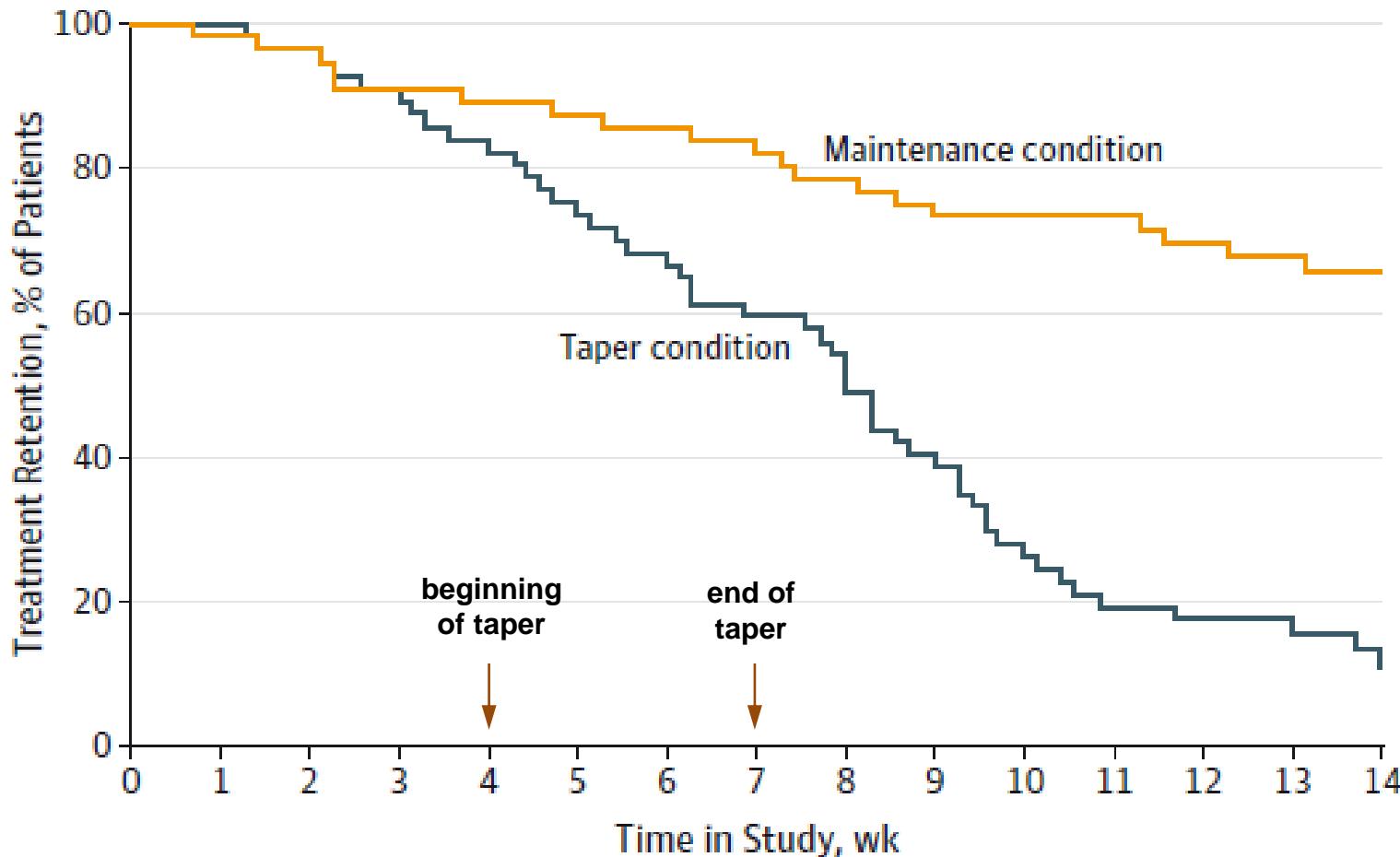
Buprenorphine Dosing: Efficacy



Mean Heroin Craving: 16 Week Completers: Reduced Craving with Therapeutic Buprenorphine Doses



Buprenorphine: Maintenance vs. Taper

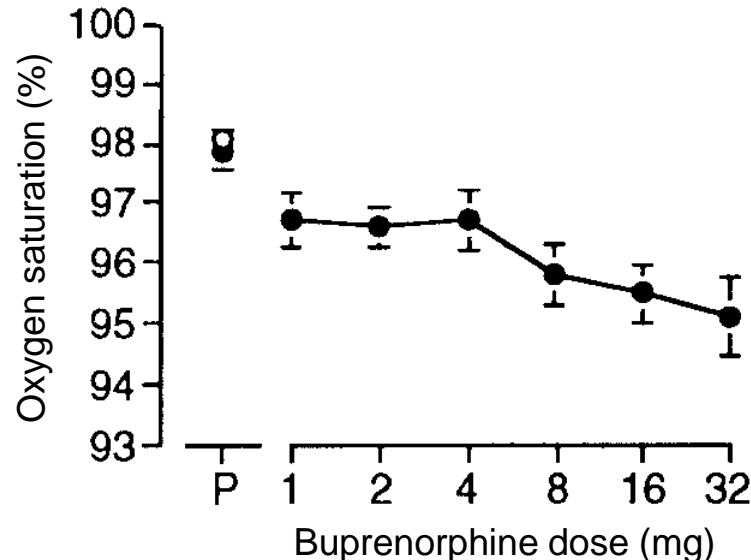
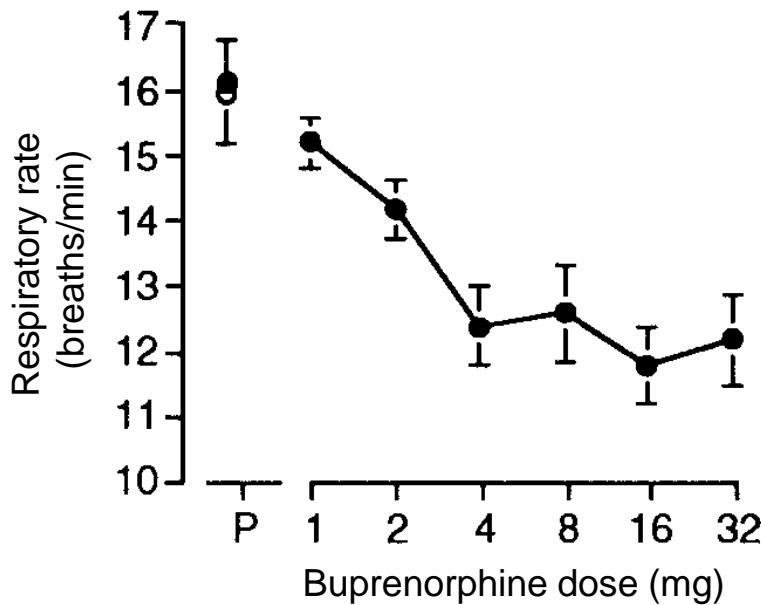


Common Adverse Effects of Buprenorphine

- Headaches
 - Management: aspirin, ibuprofen, acetaminophen (if there are no contra-indications)
- Nausea
 - Management: Consider spitting the saliva out after adequate absorption instead of swallowing.
- Constipation
 - Management: Stay well-hydrated, Consume high-fiber diet, Consider stool softeners, laxatives, naloxegol
- Xerostomia (Dry mouth) – side effect of ALL opioids
 - Complications: Gingivitis, Periodontitis
 - Management: Stay well-hydrated, Maintain good oral hygiene

Buprenorphine Dosing: Safety

- Cognitive and psychomotor effects appear to be negligible.
- Respiratory rate slowed but has as a plateau effect in adults.



- Nearly all fatal poisonings involve multiple substances

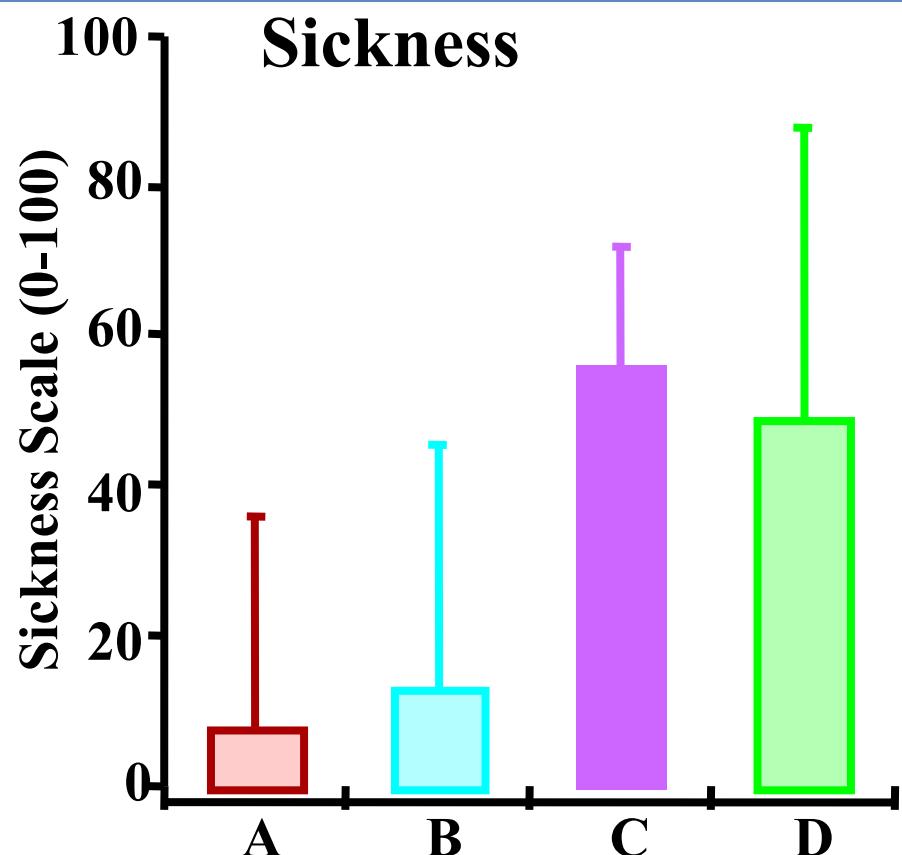
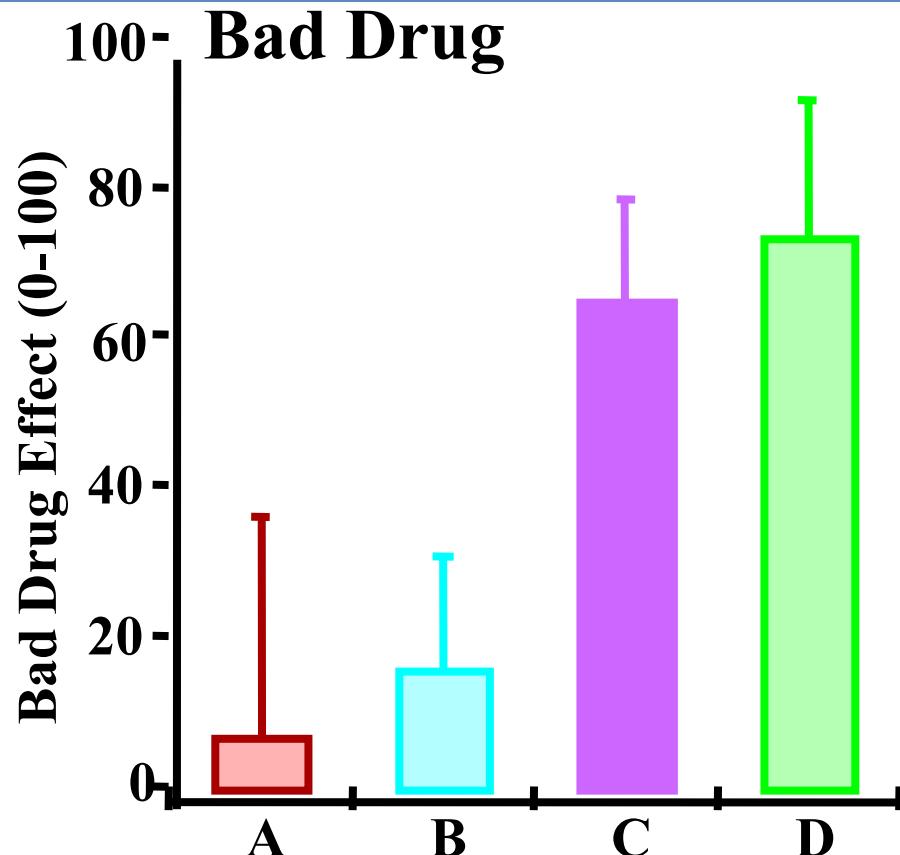
Rationale for the Combination of Buprenorphine with Naloxone

- When used as prescribed (sublingual or buccal administration), there is minimal bioavailability of naloxone
- Compared to buprenorphine alone, the buprenorphine/naloxone combination:
 - was developed to decrease IV misuse
 - is more likely to precipitate a withdrawal effect if injected by a current opioid user.
 - produces a slowed onset effect when injected or insufflated in those who are physically dependent buprenorphine.
 - per prescription, is less likely to be diverted



PEAK EFFECTS – MEAN (\pm SD)

Mendelson J., et.al. Biol Psychiatry 1997;41:1095-1101



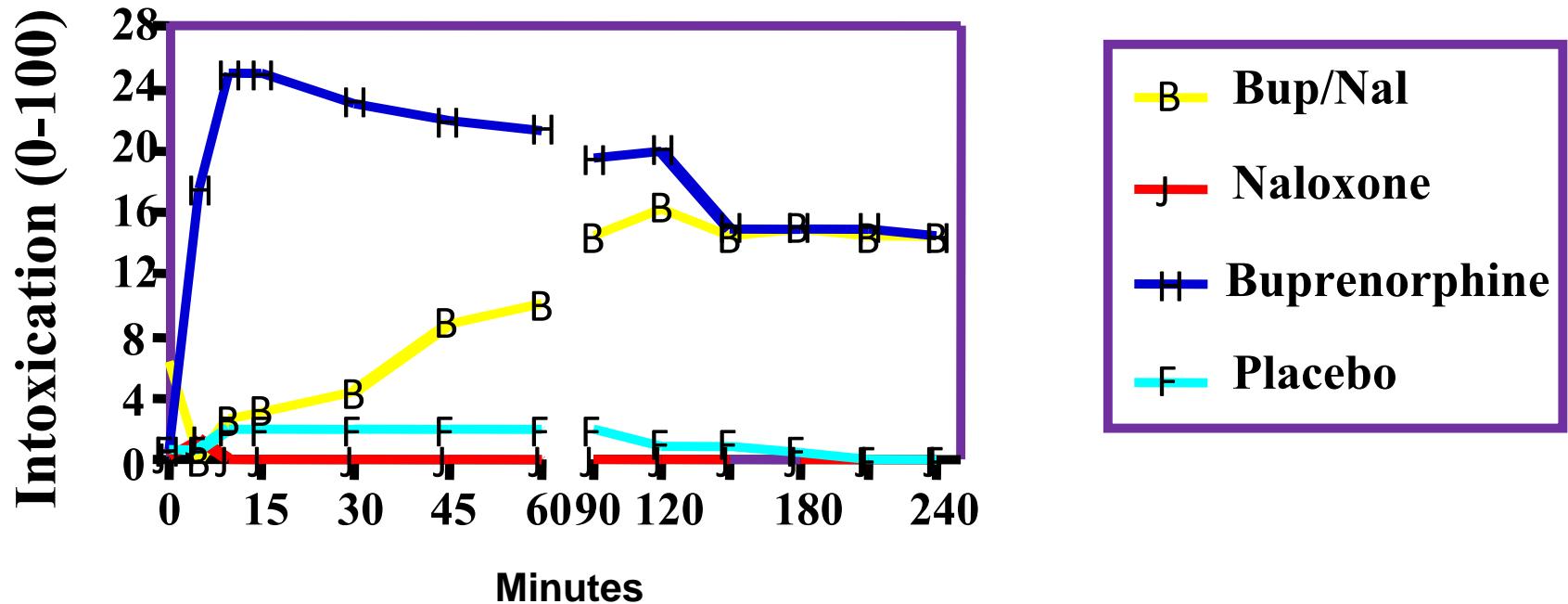
Buprenorphine placebo, Naloxone placebo

Buprenorphine 0.2 mg, Naloxone placebo

Buprenorphine placebo, Naloxone 0.1 mg

Buprenorphine 0.2 mg, Naloxone 0.1 mg

Effect of IDU diversion of Buprenorphine and buprenorphine/naloxone combination



Buprenorphine vs Placebo vs Methadone maintenance for opioid dependence

- Cochrane Review of 31 trials with over 5,400 participants found:
 - Buprenorphine is an effective medication for retaining people in treatment at any dose above 2 mg, and suppressing illicit opioid use (at doses 16 mg or greater) based on placebo-controlled trials
 - Buprenorphine appears to be less effective than methadone in retaining people in treatment, if prescribed in a flexible dose regimen or at a fixed and low dose (2 - 6 mg per day)
 - However, Buprenorphine prescribed at fixed doses (above 7 mg per day) was not different from methadone prescribed at fixed doses (40 mg or more per day) in retaining people in treatment or in suppression of illicit opioid use

Buprenorphine and Benzodiazepines

- Benzodiazepines are present in most fatal poisonings involving buprenorphine

Human studies	Minimal effects on respiration when both are taken at therapeutic doses
Animal studies	May remove the protective “ceiling effect” and allow buprenorphine to produce fatal respiratory suppression in overdose

- Used as prescribed benzodiazepines in combination with buprenorphine have been associated with more accidental injuries, but not with other safety or treatment outcomes

Bardy et al., 2015

Jones et al., 2012

Nielsen & Taylor, 2005

Schuman-Olivier et al., 2013

Changes in FDA Recommendations

08/2016	09/2017
<ul style="list-style-type: none">Boxed Warning for combined use of opioid medicines with benzodiazepines or other CNS Depressants (e.g. Alcohol)Risks of slowed or difficult breathing; Sedation; Death	<ul style="list-style-type: none">Buprenorphine and methadone should not be withheld from patients taking benzodiazepines or other drugs that depress the central nervous system (CNS).The combined use of these drugs increases the risk of serious side effects; however, the harm caused by untreated opioid addiction can outweigh these risks.Careful medication management by health care professionals can reduce these risks.

FDA Guidance for Health Care Professionals

- Take several actions and precautions and develop a treatment plan when buprenorphine or methadone is used in combination with benzodiazepines or other CNS depressants:

- Educate patients about the serious risks; poss. death
- Taper the benzodiazepine or CNS depressant to discontinuation if possible.
- Verify the diagnosis for anxiety or insomnia and consider other treatment
- Recognize that patients may require MAT medications indefinitely and their use should continue for as long as patients are benefiting and their use contributes to the intended treatment goals.
- Coordinate care to ensure other prescribers are aware of the patient's buprenorphine or methadone treatment.
- Monitor for illicit drug use, including urine or blood screening



Buprenorphine and Alcohol



- Overall recommendation is to generally avoid CNS depressants with buprenorphine
- Some evidence that treatment with buprenorphine can help decrease craving for alcohol, ethanol intake and the Addiction Severity Index (ASI) subscale of alcohol use score
- Alcohol use disorder is associated with higher rates of relapse to opioid use

Diversion of Buprenorphine

- Has intravenous misuse potential
- Most estimates suggest that, per dose, tablets are more likely to be diverted than films, and mono product tablets more likely than combined buprenorphine/naloxone
- In a survey of more than 4,000 patients in treatment programs in the United States, relative rates of diversion per prescribed dose were:
 - **buprenorphine/naloxone film: 1 (reference)**
 - **buprenorphine/naloxone tablet: 2.2**
 - **buprenorphine tablet: 6.5**
- Combination product is therefore the standard of care for general use

Comer et al., 2010

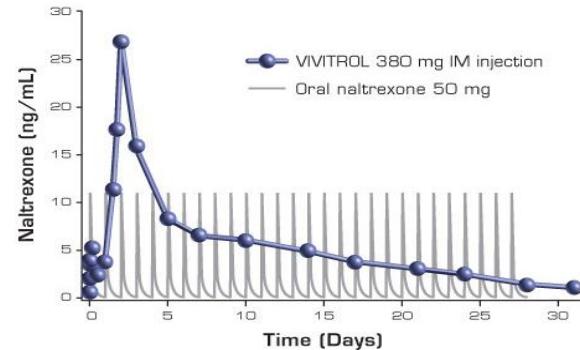
Jones et al., 2015

Larancea et al., 2014

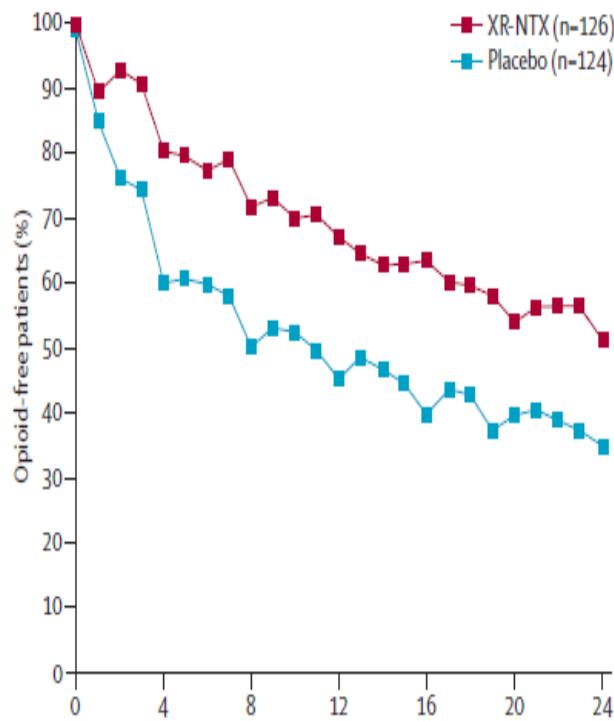
Lavonas et al., 2014

Naltrexone Treatment

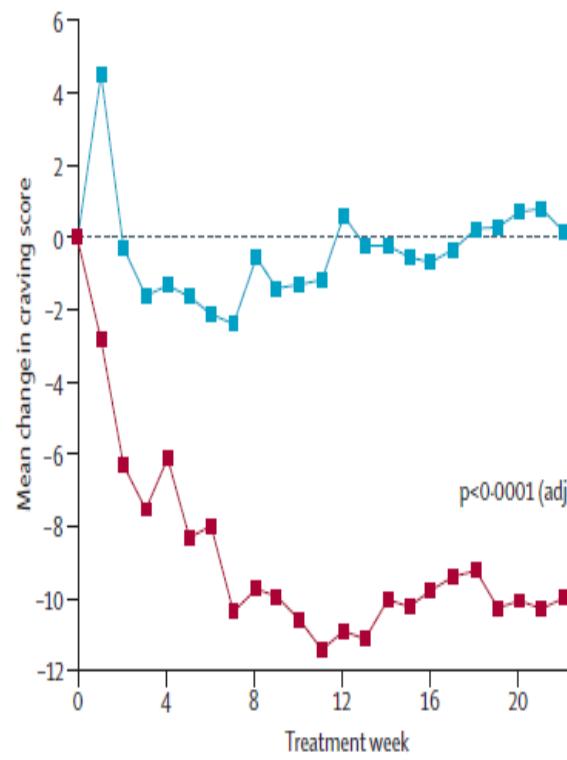
- Naltrexone is a long-acting, high affinity, competitive opioid receptor antagonist with an active metabolite (6- β -naltrexol) which is also an antagonist
- In sufficient plasma concentrations (>2 ng/ml) naltrexone fully blocks all opioid effects
- Naltrexone tablet is approved for the treatment of OUD; associated with poor daily adherence
- Naltrexone (extended release) monthly injection is approved for the treatment of OUD; better compliance
- Appealing choice for patients who prefer not be on any opioids



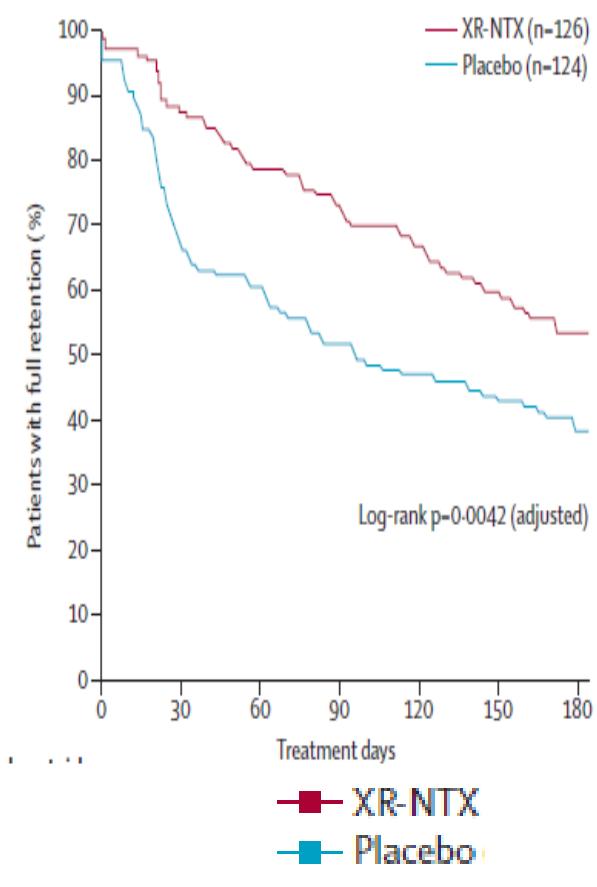
Naltrexone: Efficacy



Krupitsky et al., 2011



There may also be a higher proportion of opioid, cocaine, benzodiazepine, cannabinoids, amphetamine - free patients.
Comer et.al., 2011



Naltrexone Treatment: Mechanism

There are two possible mechanisms of therapeutic effect:

- **Behavioral mechanism:** blockade of the reinforcing effects of heroin leads to gradual extinction of drug seeking and craving
 - Patients who use opioids while on naltrexone experience no effect of exogenous opioids and often stop using them
- **Pharmacological mechanism:** naltrexone decreases reactivity to drug-conditioned cues and decreases craving thereby minimizing pathological responses contributing to relapse

As naltrexone has a different mechanism of action than methadone or buprenorphine, it may be acceptable to, or effective for different subgroups of patients, thus helping to attract more patients into effective treatment overall.

Effectiveness of Buprenorphine vs. Injection Naltrexone

- Two randomized comparative effectiveness trials in Norway and US
- Overall Findings:
 - Once initiated, both medications appear comparably effective, although buprenorphine doses may not have been maximized in the trials
 - Naltrexone is more difficult to initiate due to the need to get a patient through medically supervised withdrawal



Naltrexone Considerations: Initiation

- Official prescribing information recommends that patients be opioid-free followed by a wait-period of 7-10 days before treatment can be initiated, to avoid precipitated withdrawal
 - Can be challenging due to need to tolerate withdrawal symptoms, and remain abstinent over 7 to 10 days
 - Non opioid medications for withdrawal (e.g. clonidine) can be helpful
 - Inpatient/residential treatment programs, where detoxification can be accomplished is an ideal setting for initiating naltrexone, but reduced access to such programs due to limited third party reimbursement
 - More rapid methods for naltrexone initiation are under development

*Mark Your
Calendar*

May
20

Naltrexone Considerations: Adherence

- Treatment adherence can be challenging but this is better with long acting injectable formulation
 - Oral naltrexone generally not recommended for treatment of opioid use disorder, due to risk of non-adherence, relapse, and subsequent overdose
 - Long-acting injection naltrexone is preferred
 - Some patients experience subacute withdrawal symptoms after the first naltrexone injection.
 - Typically only occurs with the first injection and resolves within two weeks.
 - The treatment should include on going counseling, anticipatory guidance, motivational techniques emphasizing on adherence.
 - Involvement of a significant other may be helpful to support adherence.
 - Other than soreness at injection site, few other common side effects
 - Main safety concern is risk of relapse when injections are discontinued.



Medication-Assisted Treatment (MAT)

	Methadone	Buprenorphine (Oral)	Naltrexone (IM)
Mechanism of Action	Full Agonist on Opioid Receptor	Partial Agonist on Opioid Receptor	Antagonist on Opioid Receptor
Dosing	80mg-100mg (Usual Dose)	4-32mg	380mg Depot Injection
Advantages	<ul style="list-style-type: none">Provided in a highly structured supervised setting where additional services can be provided on-site and diversion is unlikelyMaybe effective for individuals who have not benefited sufficiently from partial agonists or antagonists	<ul style="list-style-type: none">Improved safety due to partial agonismAvailability in office-based settings	<ul style="list-style-type: none">No addictive potential or diversion riskAvailable in office-based settingsOption for individuals seeking to avoid any opioids

Summary

- MAT is comprised of:
 - Methadone: A full agonist that activates the mu-receptor
 - Buprenorphine: A partial agonist that activates the mu-receptor at lower levels
 - Naltrexone: An antagonist that occupies the mu-receptor without activating it
- Ongoing treatment with MAT is effective at improving retention in treatment and decreasing use of illicit opioids. In contrast, short-term treatment where MAT is tapered after a brief period of stabilization have proven ineffective.
- Pharmacodynamically, combination of methadone or buprenorphine with other central nervous system depressants may increase the risk of sedation or respiratory depression and overdose. This risk is most clearly shown with benzodiazepines, particularly with intravenous use.

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Patient Evaluation

Building a Therapeutic Alliance

- Attitude
 - Non-judgmental, curious, empathetic
- Respectful
 - Recognize adversity
 - Recognize strengths
 - Use the non-stigmatizing language
- Honesty
- Shared goals
 - Why is the patient seeking treatment?
 - Provider treatment team concerns
- Reassurance
 - Assure patient your objective is concern for his or her health
 - Confidentiality (with qualifiers)
 - Safety of self, well-being of other (especially children)



Miller WR, Rollnick S, Motivational Interviewing, Guilford Press, NY NY, Third Ed., 2013, page 22.

Goals Prior to Visit or During Visit

- Review Prescription Drug Monitoring Program (PDMP)
- Signed Forms:
 - Consent for treatment
 - Multi-Party Release, obtaining/releasing collateral information from/to all current or prior treatment teams
 - Treatment agreement
- Examples can be found at:
 - <https://pcssnow.org/resources/clinical-tools/>



Initial Urine Drug Screening for BUP/MAT Patients

- Point of care testing
 - Screening for:
 - Opiates
 - Marijuana
 - Cocaine
 - Amphetamines
 - Benzodiazepine
 - Alcohol bio-markers *
- Confirmation
 - On all new patients
 - On positive POC
- Adjunctive Testing
 - Pregnancy?
 - Fentanyl?



Medical History

- Review of current symptoms
- Review Medical History/Chronic Medical Problems
- Relationship of medical symptoms to substance use
- Treatments and response:
 - Medical/Surgical
- Obstetrics/Gynecology:
 - Pregnancies/Menstrual Status/Birth Control
- Dental care
- Medications:
 - Present/Past
 - Response/Side Effects
- Review of Labs, ECG



Psychiatric History

- Review of symptoms
- Relationship of psychiatric symptoms to substance use – establish temporality
- Prior diagnosis
- Trauma History
- Treatments and response:
 - Inpatient/Residential
 - Intensive Outpatient Programs (IOPs)/ Partial Hospitalization Programs (PHPs)
 - Outpatient
- Psychotropic medications
 - Present/Past
 - Response/Side Effects



Social and Family History

- Social history:
 - Birth and early development
 - Education:
 - Completing high school on time
 - Current employment status and prior occupations
 - Marital status, children, close supports
 - Living situation
 - Legal status? (No longer part of Dx)
 - Current Stressors, e.g. Housing/finance
- Family history:
 - Substance use disorders
 - Other psychiatric conditions
 - Other medical disorders



Substance Use History: Patterns

- Substance use history:
 - Ask about all substances:
 - Nicotine
 - Opioids: prescription opioids, non-prescribed opioids, heroin
 - Alcohol, marijuana
 - Hallucinogens, sedative/hypnotics, stimulants, other



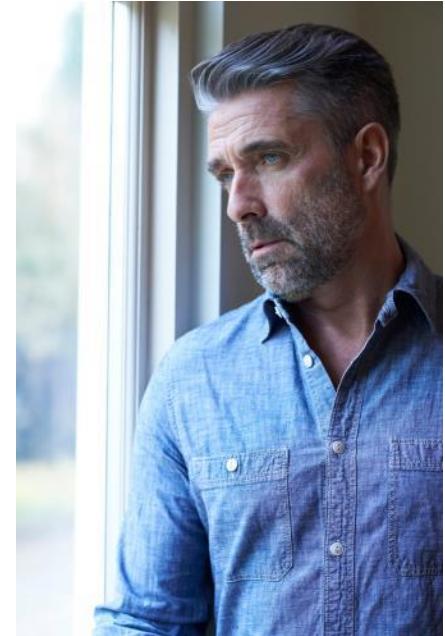
Substance Use History: Patterns

- Substance use history:
 - Age at first use
 - Determine patterns of use over time:
 - Frequency
 - Amount
 - Route
 - Assess recent use (past several weeks)
 - Cravings and control:
 - Assess temporality and circumstances
 - Determine if patient sees loss of control over use



Substance Use History: Relapse/Treatment

- Relapse/attempts to abstain:
 - Determine if the patient has tried to abstain
 - What happened?
 - What helped?
 - Longest period of abstinence
 - Identify triggers to relapse
- Treatment episodes:
 - Response to treatment
 - Attitudes towards various treatment settings and mutual support groups (AA, NA etc.)
 - Length of abstinence



Substance Use History: Effects and Consequences

- Tolerance, intoxication, withdrawal:
 - Explain what is meant by tolerance
 - Determine the patient's tolerance and withdrawal history
 - Ask about complications associated with intoxication and withdrawal
- Consequences of use:
 - Determine current vs past levels of functioning
 - Aberrant behaviors (e.g. sedation, deterioration in function)
 - Identify consequences:
 - Medical
 - Family
 - Employment
 - Legal
 - Psychiatric
 - Other



DSM V Criteria

- Loss of Control
 - Larger amounts, longer time
 - Inability to cutback
 - More time spent, getting, using, recovering
 - Activities given up to use.
 - Craving
- Physiologic
 - Tolerance
 - Withdrawal
- Consequences
 - Hazardous use
 - Social or interpersonal problems related to use
 - Neglected major roles to use
 - Continued use after significant problems.

- A substance use disorder is defined as having 2 or more of these symptoms in the past year
- Tolerance and withdrawal alone don't necessarily imply a disorder.
- Severity is related by the number of symptoms.

2-3 = mild
4-5 = moderate
6+ = severe

Physical Examination

System	Findings
Dermatologic	Abscesses, rashes, cellulitis, thrombosed veins, jaundice, scars, track marks, pock marks from skin popping
Ear, nose, throat, and eyes	Pupils pinpoint or dilated, yellow sclera, conjunctivitis, ruptured eardrums, otitis media, discharge from ears, rhinorrhea, rhinitis, excoriation or perforation of nasal septum, epistaxis, sinusitis, hoarseness, or laryngitis
Mouth	Poor dentition, gum disease, abscesses
Cardiovascular	Murmurs, arrhythmias
Respiratory	Asthma, dyspnea, rales, chronic cough, hematemesis
Musculoskeletal and extremities	Pitting edema, broken bones, traumatic amputations, burns on fingers
Gastrointestinal	Hepatomegaly, hernias

Laboratory Testing

Baseline Labs	Recommended Labs (Case-by-Case and Provider Preference)
Pregnancy test (for women of child-bearing age)	Complete Blood Count (with differential) and platelet count
Urine Drug Screen	Serum Electrolytes
	Hepatitis C&A, HIV
	Liver Function Tests (GGT, AST, ALT, PT or INR, albumin)

Factors to Consider in Determining OBOT Suitability

- Can the patient adhere with treatment requirements?
- Are the psychosocial circumstances of the patient stable and supportive?
- Is the patient taking other medications that may interact with buprenorphine, such as naltrexone, benzodiazepines, or other sedative-hypnotics?
- Are there resources available in the office to provide appropriate treatment? On-call coverage?
- Are there treatment programs available that will accept referral for more intensive levels of service if needed?

General Principles: Prior to starting OBOT

- First meeting/assessment can also be used to give the individual information about medication-assisted treatment:
 - Appropriate use of the medication; no sharing or diversion
 - The need to avoid continued drug and alcohol misuse
 - The need to inform physician if other medications are prescribed for any purpose
 - The need to store the medication safely; how will the patient do that?

Concurrent Substance Use and OBOT Suitability

- Alcohol:
 - Sedative-hypnotic
 - Patients should be cautioned to avoid alcohol while taking buprenorphine. Persons with active or current alcohol use disorders may require residential treatment prior to starting OBOT
 - Note: Essential to assess for use, intoxication, and withdrawal from sedative-hypnotics. If a patient is at risk for withdrawal seizures from alcohol or sedative-hypnotic use, buprenorphine will not control seizures
- Use of other drugs (e.g. marijuana or cocaine):
 - Not an absolute contraindication to buprenorphine treatment
 - Important to explore the reasons for continued use, willingness to abstain and document the discussion



OBOT and Concurrent SUDs and Non-prescribed Medication Use

- Other concurrent substance use disorders:
 - May benefit from completion of more intensive treatment such as Intensive Outpatient Programs or Residential Treatment prior to re-establishing care at OBOT
- Other Substance Use:
 - Buprenorphine is a treatment for opioid use disorder, not other drug use disorders. Does not directly impact cocaine/amphetamine use, cannabis use, alcohol use [though reductions may occur indirectly as a result of participating in monitored treatment]
 - Misuse of other drugs (such as stimulants or sedatives) can be prevalent among opioid-addicted persons and may interfere with overall treatment adherence
 - Also assess for misuse/overuse of other prescribed medications e.g. gabapentin

Treatment Agreement

- Before getting started with treatment:
 - Make goals of treatment and expectations clear to patients
 - Consider Obtaining multi-disciplinary Release
- Use Treatment Agreements that outline terms of treatment:
 - What the patient can expect from you and from treatment
 - What you will expect/require from the patient
 - Information for patients about buprenorphine and its safe use
 - Informed consent (see Clinical Tools at www.pcssNOW.org)
 - Know referral sources in the community if patients are unable to follow the treatment agreement and need more intensive care
 - Example Agreement can be found in TIP(s) - 40 and 63:
 - https://www.ncbi.nlm.nih.gov/books/NBK64245/pdf/Bookshelf_NBK64245.pdf

Treatment Agreements – Example of Key Components

- Arriving at appointments punctually
- Courteous in the office
- Refrain from arriving intoxicated or under the influence of drugs
- Agree not to sell, share, give any medication to others
- Agree not to deal, steal or conduct other illegal or disruptive activities
- Medications will be provided during scheduled office visits
- Responsible safe storage of medications
- Agree not to obtain medications from other providers, physicians, pharmacies, or other sources without informing my treating provider
- Agree to follow the prescription instructions



Review of the Initial Evaluation

Goals	Details
Therapeutic Alliance	<ul style="list-style-type: none">▪ Non-judgmental, understanding, respectful▪ Use Language of recovery▪ Shared goal-setting
Collateral Information	<ul style="list-style-type: none">▪ Prescription Monitoring Programs▪ Other Treatment Providers
Comprehensive Assessment	<ul style="list-style-type: none">▪ Medical, Psychiatric, Review/Perform Lab Tests, Physical Exam
Signs of Withdrawal	<ul style="list-style-type: none">▪ Clinical Opioid Withdrawal Scale (COWS)
Diagnostic Clarification of Substance Use Disorder	<ul style="list-style-type: none">▪ DSM-Criteria with:<ul style="list-style-type: none">- Descriptor: Use Disorder; Intoxication; Withdrawal- Specifiers: In Early remission; In Sustained remission; In a controlled environment- Severity: Mild, Moderate, Severe
Risk Assessment	<ul style="list-style-type: none">▪ Active Suicidal Ideation; Homicidal Ideation; Overdose
Assessment of Appropriateness	<ul style="list-style-type: none">▪ Buprenorphine Treatment (any contraindications)▪ Is OBOT appropriate for patient at this time
Plan	<ul style="list-style-type: none">▪ MAT; Therapy; Referrals; Safety Measures

Summary

- The initial evaluation is comprised of building a therapeutic alliance, obtaining data for treatment planning and initiation.
- Important components include History of medical, psychiatric and substance use disorders. There is great variability in practice and providers and clinics may have their own policies, protocols and preferences regarding the evaluation and documentation.
- Comprehensive physical exam can identify current state of health and areas for further evaluation and treatment.
- Office-Based Opioid Treatment (OBOT) can be appropriate for patients that are able to receive the level of care that can be provided in an outpatient setting. Some patients may benefit from stabilization offered by higher levels of care before engaging in office-based care.
- Methadone or Naltrexone-ER are other options for MAT and may be more suitable for patients who prefer either of these options or for whom OBOT is not effective or appropriate.

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Case Study #1: The Lawyer

Lawyer, beginning to use daily Clinical Management

Mr. Smith is a forty-year-old man who comes to your office asking to be treated with buprenorphine. He is a criminal defense attorney in private practice, and he knows about buprenorphine because you are treating some of his clients. His goal is to use buprenorphine during the week and occasionally use heroin (by snorting) on the weekend. He has used heroin for the past 5 years.

For the past 6 months, he has used heroin primarily on the weekend, but he is concerned now because he has begun to use small amounts of heroin daily. If he doesn't use heroin, he gets loose stools, is irritable, and has difficulty getting and staying asleep. He has no desire to completely stop heroin use, but he doesn't want to use it during the week.

His passion is playing jazz and he has organized a band. He says that heroin use is common in the club where his band plays. All the members of the band use heroin and many of his friends who come to the club also snort or inject heroin. He rarely buys heroin, as his friends usually give it to him.

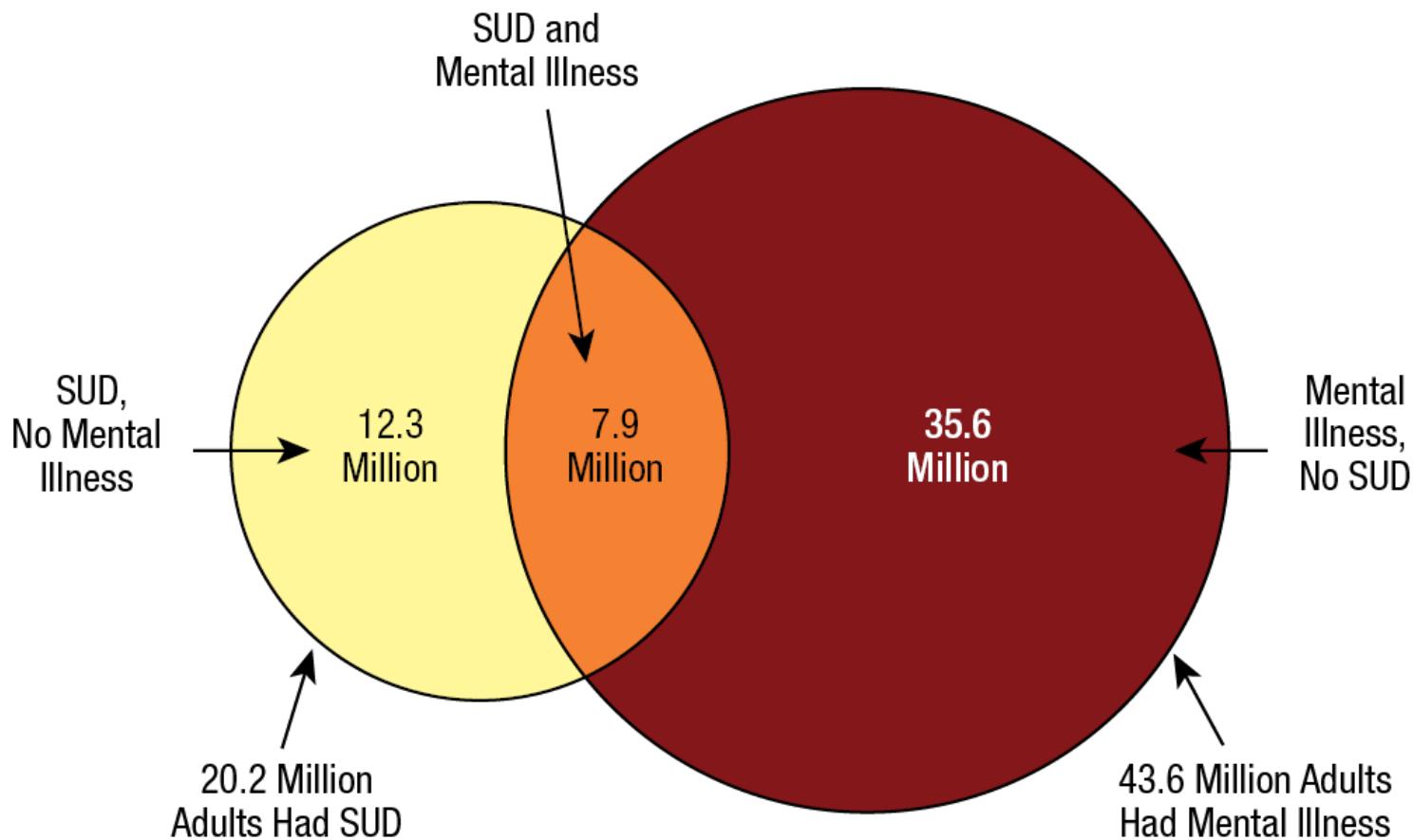
Case #1 Lawyer, beginning to use daily cont.

His only other drug use is marijuana and alcohol (3-6 drinks/night on the weekend), again primarily used on the weekend. He has never been arrested or had significant medical consequences from his heroin use. He is not married. He has a 14-year-old son who he has supported and sees often.

- ***What is the diagnosis?***
- ***Is this patient a candidate for treatment with buprenorphine?***
- ***What are the treatment goals?***
- ***What is the initial treatment plan?***

Specialty Topics

Co-occurring Psychiatric Disorders



Comorbid Psychiatric Disorders

- Distinguish between substance-induced disorders versus independent psychiatric disorders:
 - Substance-induced:
 - Disorders related to the use of psychoactive substance; typically resolve with sustained abstinence
 - Independent:
 - Disorders which present during times of abstinence; symptoms not related to use of psychoactive substance

Note: There is no specific period of time used to differentiate these disorders

Substance-Induced Disorders

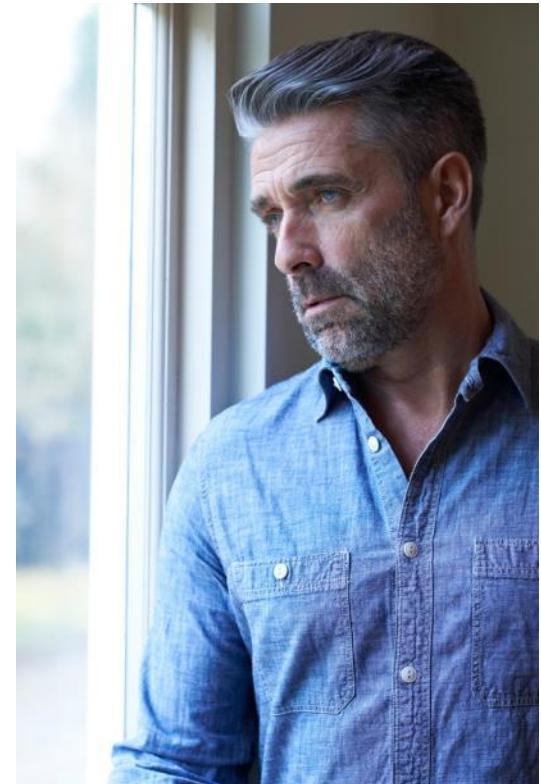
- Symptoms occur only when misusing drugs
- Symptoms are related to intoxication, withdrawal, or other aspects of active use
- Onset and/or offset of symptoms is preceded by increases or decreases in substance use
- Goals:
 - Sustained abstinence
 - Re-evaluation

Independent Disorders

- Symptoms occur when not using or misusing psychoactive substances, or with steady use without change in amount or type
- Family history may point to independent disorder if present in first degree relatives
- Goal:
 - Cessation of substance use, and treatment of psychiatric symptoms

Depressive and Anxiety Symptoms

- Depressive and anxiety symptoms are common at treatment entry
- Symptoms may resolve within few days of stable treatment
- Symptoms that persist beyond acute intoxication and withdrawal can be worthwhile targets for treatment:
 - For example, with Selective Serotonin Reuptake Inhibitors
- Patients treated with MAT respond to medications for depression and anxiety at rates similar to those without opioid use disorders



Treatment of Co-Occurring Psychiatric Disorders

- Avoid use of benzodiazepines
 - Risk of misuse
 - Interactions with buprenorphine possible
 - First-Line Treatments for anxiety and depression
 - Selective Serotonin reuptake inhibitors
 - Psychotherapy (e.g.: cognitive behavioral therapy)
- Stimulants
 - Obtain collateral information from Prescription Drug Monitoring Program, Psychiatric and/or Primary Care Provider
 - If there is concern for Attention Deficit Hyperactivity Disorder (ADHD), consider Adult ADHD Self-Report Scale (ASRS) or refer patient to a Psychiatric or Primary Care Provider for assessment
 - Continue stimulants if they have been legitimately prescribed by Psychiatric or Primary Care Provider

Factors to Consider in treating OUD in the Pregnant Patient

- Pregnancy:
 - If patient elects to start or to stay on buprenorphine
 - Document informed consent for ongoing treatment with buprenorphine.
 - Obtain consent for release of information and inform patient's Ob/Gyn that patient is on buprenorphine.
 - Consider starting with or switching to equivalent dose of buprenorphine mono-product (available as a generic medication)
 - If methadone is selected refer to OTP and may start without a period of mild withdrawal.
 - Administer split dose (e.g.: 30 mg on day 1 in two divided doses, and increase as clinically indicated).

Use of Buprenorphine With or Without Naloxone in the Pregnant Patient

■ Buprenorphine/Naloxone:

- FDA designates naloxone as Pregnancy Category B (the formulation of buprenorphine-naloxone is Category C):
 - No known teratogenic effects in animals
 - Controlled studies have not been conducted in humans
- Increasing evidence that buprenorphine-naloxone may be safe in pregnancy
- However, buprenorphine *without* naloxone is recommended for pregnant, opioid-dependent women

■ Postpartum:

- Transition to original pre-pregnancy dose and formulation
- Mothers taking buprenorphine are safe to breastfeed

Pregnancy and Methadone Treatment

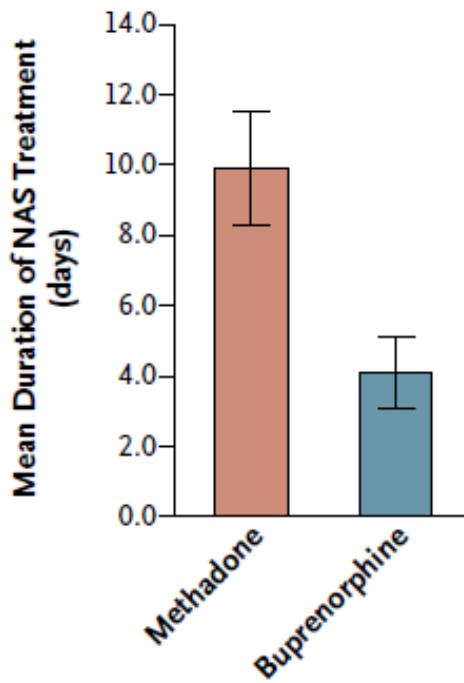
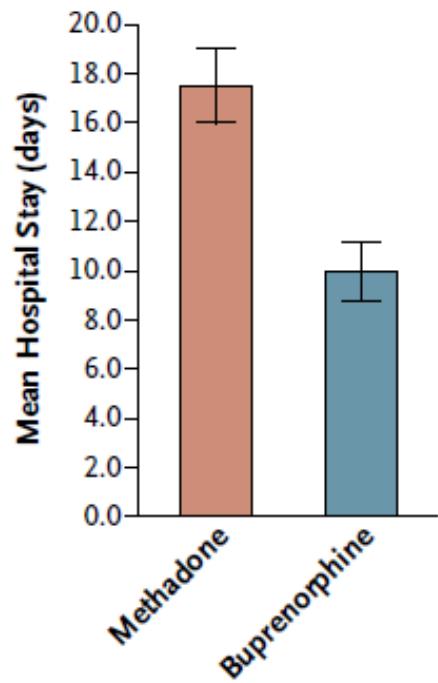
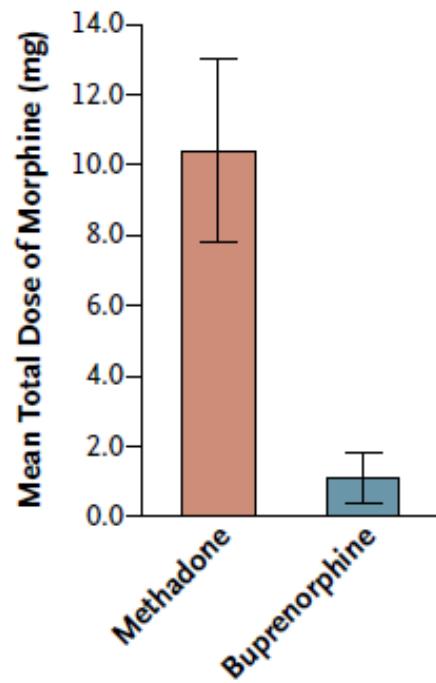
- Formally first-line tx. Commonly used for pregnant women with OUD
- Titrate dose to effectively reduce cravings
- Medication changes:
 - Second and third trimester:
 - Doses may need to **increased** due to increased metabolism and circulating blood volume
 - Doses may need to be split
 - With advancing gestational age: Plasma levels of methadone progressively decrease and clearance increases
 - Increasing or splitting the methadone into 12-hour doses may produce less cravings and withdrawal

Buprenorphine vs. Methadone in Pregnant Patients with OUD

Buprenorphine (Mono Product)	Methadone
<ul style="list-style-type: none">▪ Similar efficacy as methadone▪ Same rates of adverse events, NAS, as methadone▪ Improvement over methadone:<ul style="list-style-type: none">▪ Lower risk of overdose▪ Fewer drug interactions▪ Milder withdrawal symptoms in NAS▪ Reduced morphine dosing▪ Significantly shorter hospital stay	<ul style="list-style-type: none">▪ More structure- better for patients in unstable situations<ul style="list-style-type: none">▪ Decreased risk of diversion▪ More long-term data on outcomes

Fischer et al., 1998, 1999
Jones et al., 2010;
Kakko et al., 2008;
Kraft et al., 2017

Maternal Opioid Treatment: Human Experimental Research (MOTHER) Study



Factors to Consider in Treating the Adolescent OUD Patient

- The American Academy of Pediatrics (AAP) advocates for increasing resources to improve access to medication-assisted treatment of opioid-addicted adolescents and young adults.
 - Increase resources for medication-assisted treatment within primary care and access to developmentally appropriate substance use disorder counseling in community settings.
 - The AAP recommends that pediatricians consider offering medication-assisted treatment to their adolescent and young adult patients with severe opioid use disorders or discuss referrals to other providers for this service.
- Buprenorphine is approved for use in patients 16y/o and older.
- Naltrexone and methadone are approved for patients 18y/o and above.
- Protocols for initiation and treatment are similar to the adult.
- Encourage looking for adolescent based programs in the community.

Acute Pain Management in Buprenorphine Maintained Patients

■ Different Approaches:

- Initially try non-opioid analgesics (ketorolac or NSAIDs)
- Continue Same buprenorphine maintenance dose but add non-opioid analgesics
- Use split dose for concurrent pain and dependence
 - Buprenorphine's analgesic duration is only a few hours
- Stop buprenorphine and initiate full agonist therapy



Perioperative Management

- General:

- Patients fear mistreatment,
Providers fear deception
- Lack of consensus in the field
 - often based on the preference of the surgical/anesthesia teams

- Pre-Op:

- Confirm Multi-Party Consent and Coordination of care with providers
- If patient is already on Partial Agonist:
 - Take last Buprenorphine maintenance dose 24-hours prior to surgery
 - Higher dosing of short-acting opioids may be required post-surgical



Post Op Options for Patients already on Buprenorphine

Options	Considerations
<ul style="list-style-type: none">▪ Continue Full Agonist and then▪ Transition to Partial Agonist:	<ul style="list-style-type: none">▪ Consider using Extended Release/Long Acting with Immediate Release/Short Acting for breakthrough pain▪ Discussions about risks of relapse▪ Medication security
<ul style="list-style-type: none">▪ Continue Partial Agonist with:	<ul style="list-style-type: none">▪ More frequent dosing▪ Consideration for Increased total dosage▪ Have a clear and detailed discussion with patient about a return to baseline dosing – specify timeline of changes for clarity

Acute Pain Management for Patients currently on Naltrexone

Clinical Scenario	Management Options
Mild Pain	<ul style="list-style-type: none">Non-Opioid options e.g. Full doses of NSAIDs (e.g. ketorolac injection)
Elective Surgery	<ul style="list-style-type: none">Make a plan and schedule surgery. For patients on:<ul style="list-style-type: none"><u>Oral Naltrexone</u>: Discontinue at least 72 hours after last dose<u>Extended Release Naltrexone</u>: At least four-weeks after receiving injection
Major Pain or Emergency	<ul style="list-style-type: none">Regional anesthesiaConscious sedationGeneral anesthesia <i>[Note: High potency opioids like fentanyl can override blockade]</i>

Chronic Pain Patients

- Consider consulting a pain medicine specialist
- Consider Multidisciplinary Team Approach
- Try non-opioid and adjuvant analgesics
- Consider non-pharmacologic therapies



HIV – Positive Patients

- CYP 3A4 is the primary hepatic enzyme involved in metabolism Of both methadone and buprenorphine
- Many anti-retrovirals affect buprenorphine or Methadone levels and in some cases buprenorphine or Methadone levels affect anti-retrovirals levels
- There are markedly fewer drug/drug interactions with buprenorphine and anti-retrovirals as compared to methadone and little or no interactions with naltrexone
- Providers should consider referral to specialized HIV treatment programs and services – if available

CSAT, 2004

McCance-Katz et al., 2010

Moatti et al., 2000

Montoya et al., 1995

Patients with Renal Failure

- Suitable to use buprenorphine in patients with renal failure
- No significant difference in kinetics of buprenorphine in patients with renal failure versus healthy controls
- No significant side effects in patients with renal failure
- Buprenorphine and methadone can be prescribed to patients undergoing hemodialysis



Patients with Compromised Hepatic Function

- Buprenorphine undergoes hepatic metabolism, primarily by the CYP450 3A4 system
- Patients with compromised hepatic function could have reduced metabolism of buprenorphine, with resultant higher blood levels of the medication
- No specific hepatotoxicity has been demonstrated for either methadone or buprenorphine
- Patients with impairments in hepatic function should be monitored closely
 - Moderately elevated levels (>3times the upper limit of normal) should be monitored.

Summary

- Approximately 40% of adults with SUD had a co-occurring psychiatric disorder. Diagnosis and Treatment of mental health issues can potentially have a positive impact on Opioid Use Disorder (OUD).
- Methadone has historically been considered first-line treatment of OUD in pregnant women. However, Increasing evidence is demonstrating that Buprenorphine without naloxone is well-tolerated and efficacious with potential benefits for the newborn.
- Although Buprenorphine is approved for individuals over 16 years of age and Methadone is approved for individuals over 18 years of age providers can consider Naltrexone ER in combination with psychosocial treatment options for adolescents with OUD.

Summary

- Peri-operative pain management practices for patients with OUD are variable and require close coordination with surgical team.
- There are markedly fewer drug/drug interactions with Buprenorphine and antiretrovirals as compared to methadone.
- Buprenorphine is suitable to use in patients with renal failure.
- Unless the patient has acute hepatitis, pharmacotherapy with methadone or buprenorphine is not contraindicated on the basis of mildly elevated liver enzymes.

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Medication Assisted Treatment Clinical Application

Clinical Uses of Buprenorphine

- Induction
- Stabilization and Maintenance
- Withdrawal

Buprenorphine Induction

Rationale

- Goals of buprenorphine initiation:
 - Identify dose of buprenorphine at which the patient:
 - Discontinues or markedly reduces use of other opioids
 - Significantly decreased or absent withdrawal symptoms
 - Has minimal/no side effects
 - Experiences decreased cravings

Buprenorphine Formulations

- Choice of formulations is based on:
 - Insurance/Third party payer considerations
 - Patient preferences
 - Safety
 - Decreased Diversion potential
- Formulations:
 - Buccal film; Sublingual films
 - Tablets
 - Subdermal implants
 - Depot formulation given as a subcutaneous injection
- All of the approved forms have demonstrated similar efficacy for treating opioid use disorder
- Buprenorphine for transdermal (via patch) and intravenous (via injection) use are available for analgesic use. They were tested but not approved for treating opioid use disorder



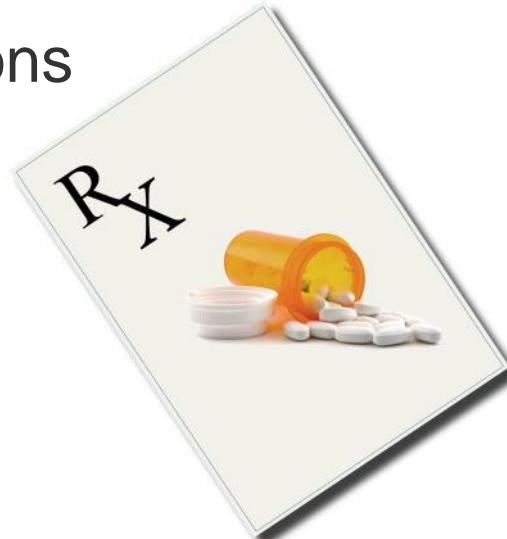
Buprenorphine Formulations for Opioid Use Disorder

Content	Route	Products	Available Doses	Equivalent Dose to 8mg Buprenorphine
With Naloxone	Sublingual	Film (suboxone)	2mg Bup/0.5mg Nx 4mg Bup/1mg Nx 8mg Bup/2mg Nx 12mg Bup/3mg Nx	8mg
		Tablet - Generic	2mg Bup/0.5mg Nx 8mg Bup/2mg Nx	
	Sublingual	Tablet - (Zubsolv®)	1.4mg Bup / 0.36mg Nx 2.9mg Bup / 0.7mg Nx 5.7mg Bup / 1.4mg Nx 8.6mg Bup / 2.1mg Nx 11.4mg Bup / 2.6mg Nx	5.7 mg
Mono-product	Buccal	Film (Bunavail®)	2.1mg Bup / 0.3mg Nx 4.2mg Bup / 0.7mg Nx 6.3mg Bup / 1mg Nx	4.2mg
	Sublingual	Tablet - Generic	2mg Bup 8mg Bup	8mg
	Implant	probuphine	74.2mg (Four implants for six-months in one arm)	74.2 mg
	Injection	sublocade	100mg, 300mg (Once-monthly injection)	300 mg: First dose 100mg: Steady state dose

Buprenorphine Induction

First Prescription

- Many Logistical Factors/Considerations
 - Review that patient meets induction criteria
 - Insurance
 - Confirm access to pharmacy
 - Confirm access to urine drug testing
- Location
 - Office Induction:
 - Patient given prescription and brings medication to the office
 - Home Induction:
 - Patient goes home with instructions, follow-up appointment, and a prescription for medicine



Office Buprenorphine Induction

Day #1

- **Timing**
 - Some offices prefer inductions earlier in the week – Consider Monday, Tuesday and avoid Fridays
 - Consider scheduling office induction earlier in the day
- **Decrease likelihood of precipitated withdrawal at induction by:**
 - Ensuring mild to moderate withdrawal at the time of induction
 - Document using Clinical Opiate Withdrawal Scale (COWS)
 - Start with low dose: 2-4mg equivalents



Clinical Opiate Withdrawal Scale (COWS)

- Resting Pulse
- Sweating
- Restlessness
- GI Upset
- Tremor
- Pupil Size
- Bone or Joint Aches
- Yawning
- Anxiety or Irritability
- Gooseflesh
- Runny Nose
or Tearing Eyes

Clinical Opiate Withdrawal Scale (COWS)

Clinical Opiate Withdrawal Scale

For each item, circle the number that best describes the patient's signs or symptom. Rate on just the apparent relationship to opiate withdrawal. For example, if heart rate is increased because the patient was jogging just prior to assessment, the increase pulse rate would not add to the score.

Patient's Name: _____	Date and Time _____ / _____ / _____
Reason for this assessment: _____	
Resting Pulse Rate: <i>Measured after patient is sitting or lying for one minute</i> 0 pulse rate 80 or below 1 pulse rate 81-100 2 pulse rate 101-120 4 pulse rate greater than 120	GI Upset: over last $\frac{1}{2}$ hour 0 no GI symptoms 1 stomach cramps 2 nausea or loose stool 3 vomiting or diarrhea 5 Multiple episodes of diarrhea or vomiting
Sweating: over past $\frac{1}{2}$ hour not accounted for by room temperature or patient activity. 0 no report of chills or flushing 1 subjective report of chills or flushing 2 flushed or observable moistness on face 3 beads of sweat on brow or face 4 sweat streaming off face	Tremor: observation of outstretched hands 0 No tremor 1 tremor can be felt, but not observed 2 slight tremor observable 4 gross tremor or muscle twitching
Restlessness: Observation during assessment 0 able to sit still 1 reports difficulty sitting still, but is able to do so 3 frequent shifting or extraneous movements of legs/arms 5 Unable to sit still for more than a few seconds	Yawning: Observation during assessment 0 no yawning 1 yawning once or twice during assessment 2 yawning three or more times during assessment 4 yawning several times/minute
Pupil size: 0 pupils pinned or normal size for room light 1 pupils possibly larger than normal for room light 2 pupils moderately dilated 5 pupils so dilated that only the rim of the iris is visible	Anxiety or Irritability: 0 none 1 patient reports increasing irritability or anxiousness 2 patient obviously irritable anxious 4 patient so irritable or anxious that participation in the assessment is difficult
Bone or Joint aches: If patient was having pain previously, only the additional component attributed to opiates withdrawal is scored 0 not present 1 mild diffuse discomfort 2 patient reports severe diffuse aching of joints/ muscles 4 patient is rubbing joints or muscles and is unable to sit still because of discomfort	Gooseflesh skin: 0 skin is smooth 3 piloerection of skin can be felt or hairs standing up on arms 5 prominent piloerection
Runny nose or tearing: Not accounted for by cold symptoms or allergies 0 not present 1 nasal stuffiness or unusually moist eyes 2 nose running or tearing 4 nose constantly running or tears streaming down cheeks	Total Score _____ The total score is the sum of all 11 items Initials of person completing Assessment: _____

Score: 5-12 = mild; 13-24 = moderate; 25-36 = moderately severe; more than 36 = severe withdrawal

Office Buprenorphine Induction

Patient Education

- Sublingual tablets and films must be held under the tongue several minutes to dissolve
- Buccal delivery films take fewer minutes to dissolve and are stuck to the buccal mucosa
- **Instruct to:**
 - Start with a moist mouth, avoid acidic drinks (coffee or fruit juice)
 - Avoid using nicotine products as this interferes with absorption
 - Avoid speaking with the sublingual medication
 - Keep dissolving medicine under tongue
 - After medication is completely dissolved, leave in mouth an additional 5 min before swallowing or spitting remaining sputum



Buprenorphine Induction

Day #1

If patient is not in opioid withdrawal on arrival in office:

- Assess and confirm time of last opioid use
- Have patient wait in the office until you see evidence of withdrawal

OR

- Consider home induction



Office Buprenorphine Induction

Day #1

- Instruct the patient to abstain from any opioid use for a minimum of:
 - 12-16 hours for short-acting opioids
 - 24 hours for sustained-release opioid medications
 - 36 hours for methadone
- Observe and document Mild vs. Moderate withdrawal:
 - **NOTE:** Be aware of Fentanyl; do not induce unless moderate withdrawal (COWS 13 to 15) is observed

Office Buprenorphine Induction

Day #1 – Short Acting Opioids

- Patients dependent on short-acting opioids (e.g. heroin/oxycodone/ hydrocodone):
 - Instruct patient to abstain from any opioid use for 12 to 24 hours prior to induction visit:
 - Arrive in mild-moderate withdrawal at induction visit
 - Use opioid withdrawal scale (COWS > 8):
 - Document and assess severity of withdrawal
 - Track the patient's response to first day's dose



Office Buprenorphine Induction

Day #1 – **Methadone**

- **Do not start buprenorphine until the patient manifests signs of opioid withdrawal**
 - Waiting at least 36 hours reduces risk of precipitated withdrawal
 - Lower doses of buprenorphine/naloxone are less likely to precipitate methadone withdrawal.³²⁸
 - For example, once opioid withdrawal is verified, an initial dose of 2 mg/0.5 mg can be given. If patients continue to have unrelieved opioid withdrawal after the first 2 mg dose, administer another 2 mg/0.5 mg dose approximately every 2 hours as needed (holding for sedation)
 - Induction should be conducted slowly; consider treating unrelieved withdrawal symptoms with nonopioid therapies as needed
 - Be alert to any increase in withdrawal symptoms, as this may suggest precipitated withdrawal.

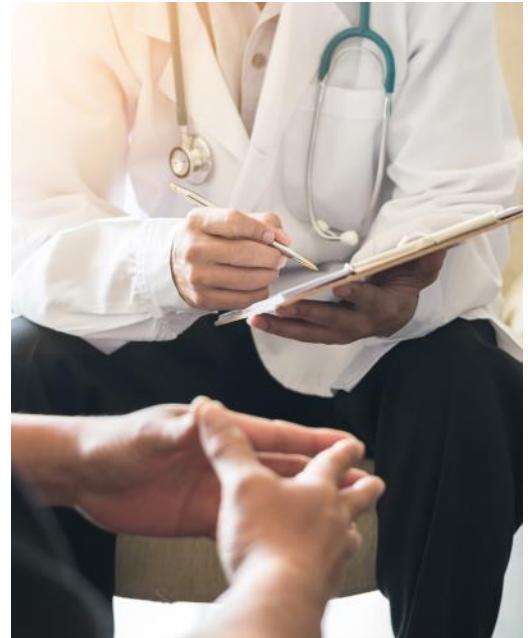
Buprenorphine Induction Review

- First dose: 2-4 mg SL buprenorphine/naloxone
- Monitor in office for 2+ hours after first dose
 - Relief of opioid withdrawal symptoms should begin within 30-45 minutes after the first dose
- Re-dose every 2-4 hours, if opioid withdrawal subsides then reappears
- Stabilize at dose that eliminates craving; typical dose range from 8 mg to 16 mg
- Gradually increase dose after establishment of a steady state over as needed for continued craving.
 - Note: This can be increased more rapidly if the patient has a lot of craving.

Buprenorphine Induction

Day #1

- If opioid withdrawal appears shortly after the first dose buprenorphine may have precipitated a withdrawal syndrome
- Greatest severity of buprenorphine-related precipitated withdrawal in the first few hours (1-4) after a dose, with a decreasing (but still present) set of withdrawal symptoms over subsequent hours



Precipitated Withdrawal Management

- If a patient has precipitated withdrawal consider:
 - Giving another dose of buprenorphine, attempting to provide enough agonist effect from buprenorphine to suppress the withdrawal

OR

- Stopping the induction, provide symptomatic treatments for the withdrawal symptoms, and have patient return the next day

***Since the latter risks losing the patient,
the first option is preferred.***

Home Induction

Multiple Approaches but Subtle Clinical Variance

- Similar outcomes noted for observed and home induction in terms of safety and efficacy
- Process:
 - Teach patient about how bup/nx works and how it is absorbed
 - Review typical withdrawal symptoms with patient
 - Start assessing withdrawal symptoms 12 hours after short-acting opioids and 24 - 36 hours after last illicit methadone use
 - Self administer 2mg bup/nx when experiencing withdrawal symptoms
 - Self assess again in 1-3 hours. If still withdrawing, self administer another 2mg dose
 - May repeat until a maximum total dose of 8-12mg during first day



Home Induction Instructions

Day #2

- Day #2: Continue dose established on Day #1
 - Encourage patient to preferably take Day #1 dose on the morning of Day #2
 - Encourage office staff to contact patient on Day #2 to assess dose response
 - After contact with patient there may be reason for additional dose adjustments:
 - If patient feels well, instruct patient to continue Day #1 dosing
 - If patient is experiencing cravings or discomfort consider increasing dose by 2-4 mg
- OR
 - discuss relapse prevention and assure patient that discomfort will stabilize over time
- Avoid rapid dose adjustments

Buprenorphine Induction

Day #2 and Beyond

- Stabilization will occur for most patients between 8 to 16mg per day:
 - Most individuals do not need more than 16mg per day but occasionally higher doses may be needed for persistent symptoms/ongoing opioid use
 - Most insurance companies limit daily doses to 24 mg
 - Though there is approval for a maximum dose of 32mg, doses above 24mg may increase risk of diversion
 - Note – If there are concerns for diversion:
 - Consider more intensive monitoring [E.g. more frequent urine testing, shorter prescription durations, supervised dosing]

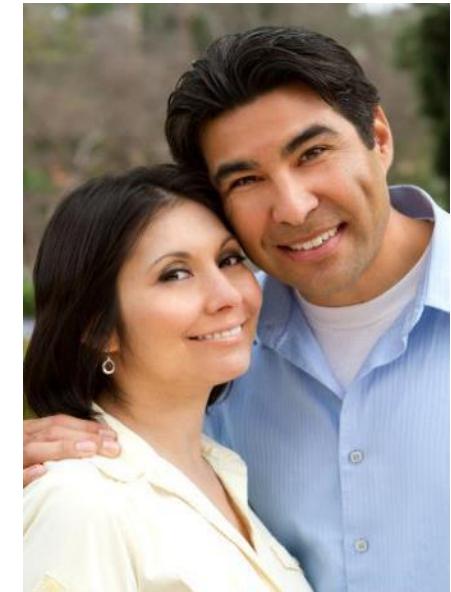
Stabilization and Maintenance

- Continue to reassess patient technique in medication administration:
 - Usual administration of buprenorphine/naloxone dosing is daily however preferably no more than twice-daily dosing
 - For proper absorption, no more than two film strips or two tablets should be taken at once
- Adjust daily dose by increments of 2-4 mg as needed:
 - Increase primarily for persistent cravings

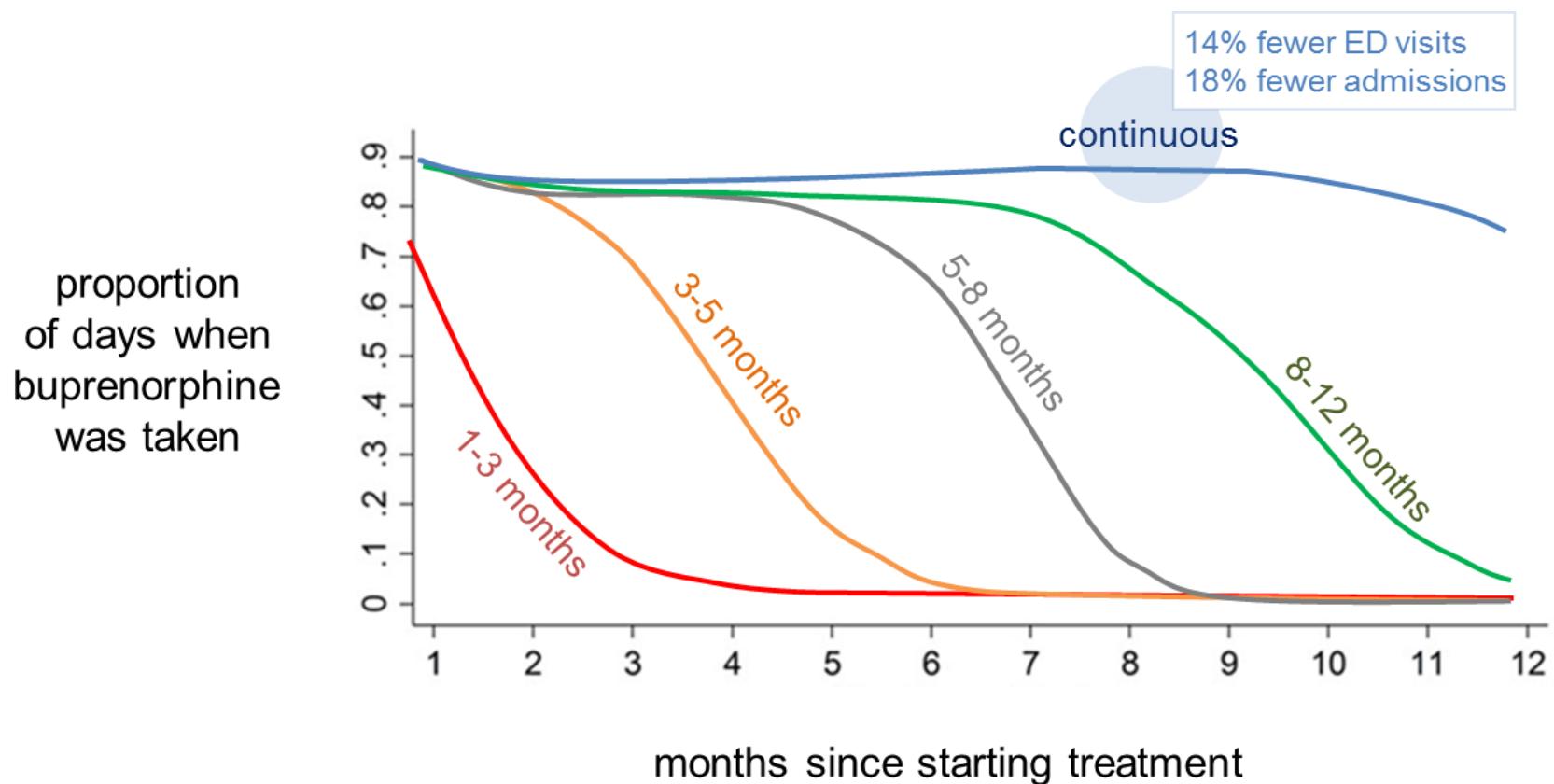


How Long Should Buprenorphine Maintenance Be?

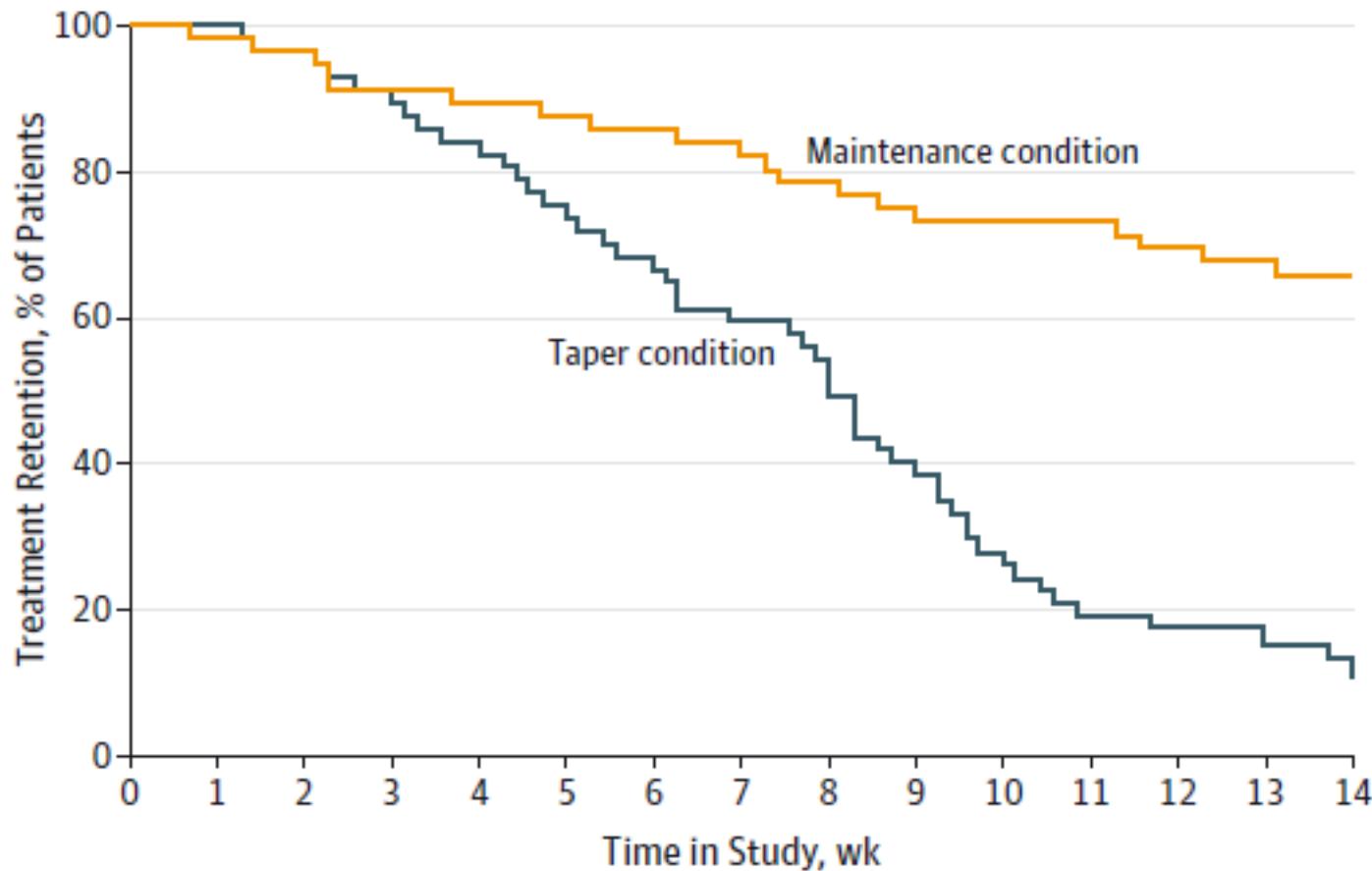
- Evidence is variable
 - Studies as long as 16 weeks show high relapse rates with medication withdrawal
 - Improved retention rates in treatment with extended buprenorphine maintenance
- Continue maintenance as long as patient is benefitting from treatment (decreased substance use, meeting employment, educational, relationships goals):
 - Note: Provider can have discussions regarding reduction in dose with improving stability or patient preference however:
 - **Caution patients about discontinuing medication too early in treatment**



Optimal Duration of MAT



Treatment Retention and Buprenorphine Dosage



Medically Supervised Withdrawal from Full-opioid Agonist Using Buprenorphine

- Buprenorphine suppresses opioid withdrawal symptoms
- When stopping buprenorphine:
 - A more gradual taper decreases the severity of withdrawal symptoms
 - Taper durations ranging from 4 to 30 days are common in clinical practice
- Withdrawal symptoms may not occur until 2-3 days after stopping buprenorphine
- Adjunctive medications (E.g. clonidine) to manage symptoms supportively

XR-NTX Practical Considerations

- Logistics
 - Adequate insurance or program coverage
 - Out of pocket XR-NTX is ~ \$1100/dose
 - Ordered from specialty pharmacy, shipped to physician
 - Keep refrigerated until dosing visit
- Check Opioid free status of patient by self-report and verified by urine drug screen
- Consider administering Naloxone challenge before first dose
 - OR
- Preload oral Naltrexone

XR-NTX Considerations

- XR-NTX injection
 - Side Effects
 - Opioid blockade may interfere if acute pain management is needed
 - Headaches, nausea, flu-like: common with 1st injection, but not subsequent injections
 - Injection site pain: common

Naltrexone Initiation

- Naltrexone is an opioid receptor antagonist and can only be started in individuals who are completely free of opioids
- Official prescribing information for injection naltrexone recommends 7-10 days “washout” period between the two phases: last dose of opioid and first dose of NTX
- When naltrexone is given to patients who are physically dependent, or have opioids in their system, naltrexone will displace opioids off the receptor and withdrawal symptoms will rapidly emerge
 - Precipitated withdrawal as opposed to a slow onset of a spontaneous withdrawal can look atypical and can involve delirium

Medically Supervised Withdrawal

Approach	Details
Symptomatic-only treatment	A variety of adjunctive medications are used to decrease specific symptoms of withdrawal
Rapid medically supervised withdrawal using antagonist	Naltrexone is added few (3•4, days after the last dose of opioid starting with very low doses (3-6 mg} Emerging withdrawal symptoms are treated with adjunctive medications to minimize discomfort

Acute Withdrawal Using Buprenorphine

- Buprenorphine suppresses opioid withdrawal symptoms
- Long-term efficacy of medical withdrawal with buprenorphine is not known.
- Studies of other withdrawal treatments have shown that brief withdrawal periods are unlikely to result in long-term abstinence unless one plans on initiating naltrexone.

Acute Withdrawal Using Buprenorphine

- Withdrawal can be primary treatment or termination of period of maintenance therapy
- Many regimens can be used based on clinical practice and patient needs
- Example: Withdrawal over 3 days:
 - First day: 8/2-12/3 mg s.l.
 - Third (last) day: 6/1.5 mg s.l.
- Can extend taper by 2-3 days if patient has trouble tolerating the procedure; offer reassurance and treat emerging insomnia, anxiety, and/or myalgias
- Withdrawal symptoms may not occur until completely off drug for 2-3 days

Adjunctive Medication Options During Medically Supervised Withdrawal

Withdrawal Symptoms	Adjunctive Medications
Anxiety/restlessness	<ul style="list-style-type: none">■ α_2 Adrenergic agonists (e.g. clonidine)
Insomnia	<ul style="list-style-type: none">■ Sedating antidepressants (e.g. trazadone)
Musculo-skeletal pain	<ul style="list-style-type: none">■ Acetaminophen, Ibuprofen
GI Distress (nausea, vomiting, diarrhea)	<ul style="list-style-type: none">■ Oral hydration■ Antiemetics (e.g. ondansetron)■ Anti-diarrheals (e.g. loperamide)

α_2 -Adrenergic agonists

■ Clonidine

- Administer 0.1 mg as needed for symptoms of withdrawal every 6 hours
- Assure continuous hydration (juice>water)
- Medication reduces physical withdrawal but not craving for opiates
- Side-effects are sleepiness, dizziness, fainting, headache



Protracted Withdrawal: Naltrexone Flu

- Patients who start naltrexone right after medically supervised withdrawal commonly experience “flu-like” symptoms that are consistent with subacute opioid withdrawal
 - Somatic complaints: insomnia, GI distress, hyperalgesia, anergia
 - Anxiety, irritability, dysphoria, anhedonia
 - Symptom severity correlated with naltrexone dose
 - Severity may be lower if naltrexone initiation is postponed (but relapse risk)
- Partially alleviated with aggressive symptomatic treatment
- Most of these symptoms remit by 2 weeks
 - Unusual for these symptoms to occur after 2nd and subsequent injections



Initiating IM Naltrexone (XR-NTX)

Summary

- Effective suppression of withdrawal symptoms, accomplished with a range of adjunctive medications, is essential to the success
- Effective method will balance the degree of discomfort and the duration of treatment
- Ability of the team to expect and respond to emerging complications, to maintain enthusiasm as confidence in the method can influence outcome
- Anticipatory guidance and motivational techniques should accompany the initiation of treatment with XR-NTX to improve long-term adherence as many patients will experience internal barriers to continuation

Case Study #2: The Teacher

Robert, a 35-year old teacher Considering Treatment Options

The patient is a 35-year-old school teacher. He has been injecting heroin on and off since he was 16. He has never been arrested. He has been through many episodes of heroin detoxification, mostly outpatient methadone detoxification but has also been in three inpatient drug treatment programs. The last inpatient program was a 28-day, drug-free recovery program, and he remained both heroin and alcohol free for about 6 months following treatment. He teaches math at a junior high school and is in some difficulty because of “calling in sick too much.” His wife is in recovery, and insisted that he return to treatment after she discovered he was taking large quantities of codeine pills from several doctors for a back injury following an automobile accident. She is unaware that he is also injecting heroin at least once daily. He has been alcohol abstinent for the past two years. His only current medical problem is that he is hepatitis C positive and he has been so for at least 10 years.

He states “Doc, I know I’m an addict. My wife cleaned up when she was pregnant with our daughter, and she just got her 12-year chip. She moved on with her life, but I’m stuck. My back injury threw me into a tailspin. At first, I really needed the codeine, but now I’m just using them to stave off heroin withdrawal. I really need your help. If my wife finds out I’m back on the needle, she’ll leave me this time.”

Case #2: Robert, a 35-year old teacher

- ***Does this patient meet DSM-5 criteria for opioid dependence?***
- ***What are the treatment options for this patient?***
- ***How would you assess the need for pharmacotherapy for this patient?***
- ***Is this patient a candidate for buprenorphine?***

Urine Drug Testing

General Goals of Drug Testing in Office-Based Treatment

- Important and routine component of treatment
- Urine testing can be viewed as a means for helping the provider to help the patient
- Testing is not meant to "catch" the patient, and a positive test result should not simply lead to discharge from treatment, but an opportunity for reviewing the patient's Recovery Management



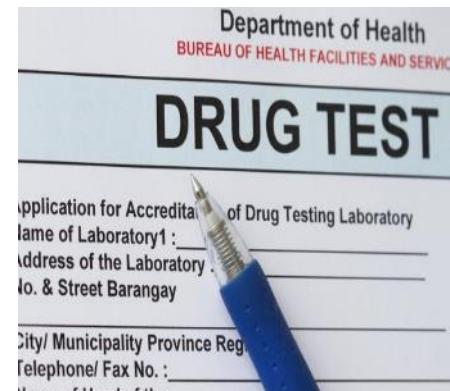
Drug Testing in Office-Based Treatment Specifics

- Laboratory testing for evidence of substance use has several roles in office-based treatment for opioid use disorder, including:

- Initial assessment
- Treatment planning
- Screening to identify non-prescribed substances/medications
- Monitoring adherence to pharmacotherapy
- Evaluating efficacy of treatment and assist in treatment planning

- Ideally laboratory testing should be:

- Random
- Observed
- Convenient for the patient
- High quality
- Able to offer timely result



Screening and Confirmatory Tests

- A common clinical approach:
 - Test for a panel of commonly-used substances using screening tests
 - Then to perform confirmatory tests for:
 - Positive results whose accuracy is important for treatment planning
 - Periodic general screening assessing commonly used substances that are not evident on POCT
 - Identification of prescribed medications or metabolites
- Confirmatory testing is not necessary at every visit

Common Tests

- Some commonly-used screening tests include:
 - Benzodiazepines
 - Cannabinoids
 - Amphetamines
 - Cocaine metabolite (benzoylecgonine)
 - Opiates (detects morphine, codeine, and metabolites)
- Less commonly-used screening tests include:
 - Alcohol metabolite (ethyl glucuronide or ethyl sulfite)
 - Buprenorphine
 - Fentanyl
 - Oxycodone
 - Methadone

these and other synthetic opioids require specific tests—they are not detected by the test for opiates

Testing for Buprenorphine

- Testing for buprenorphine during MAT can be useful to monitor adherence and detect possible diversion
- Confirmatory testing will distinguish buprenorphine and its metabolite, norbuprenorphine, which is usually present in greater concentrations
- Individuals vary in the ratio of buprenorphine to norbuprenorphine due to individual metabolism and co-administered inducers or inhibitors of CYP3A4
- Buprenorphine with little or no metabolite (i.e. a ratio of norbuprenorphine:buprenorphine: < 0.02) suggests that buprenorphine was added to the urine

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Case Study #3: The Student

19-year-old university student Clinical Management - Part I

A 19-year-old woman university student comes to you asking for treatment of her heroin use. She has been using heroin intranasally for the last 15 months, daily for the last 3 months. She is now using about 1 gram daily. Some of her friends are now switching to intravenous use because it takes less heroin to keep from getting sick. She says she does not want to do that but may be “forced” to because she cannot keep paying the “extra cost” of nasal use. She has used all the money her parents gave her for school expenses to buy heroin, her credit cards are maxed out, and she has borrowed money from her friends. Until last semester, she had an overall B average, but this semester she is in academic difficulty. When she doesn’t use heroin, she has muscle aches, diarrhea, insomnia, and anxiety. She recognizes the symptoms as heroin withdrawal and was surprised because thought she could not develop dependence with nasal use. She has no prior history of drug treatment.

19-year-old university student

Clinical Management - Part I

- ***What is the diagnosis?***
- ***Is this patient a candidate for treatment with buprenorphine?***
- ***What are the treatment goals?***
- ***What is the initial treatment plan?***

19-year-old university student Clinical Management - Part II

The clinic physician gives her a prescription for 6 day supply of buprenorphine (4 mg/day), and she is told to participate in the clinic's relapse prevention workshop six days a week and to schedule individual counseling at the clinic once a week.

She returns 3 days later having taken 8 mg/day for 3 days. She has not attended the relapse prevention workshop nor scheduled an individual counseling session. The counselor is not available to see her when she comes

- ***What is the treatment plan at this point?***

19-year-old university student Clinical Management - Part III

Part III

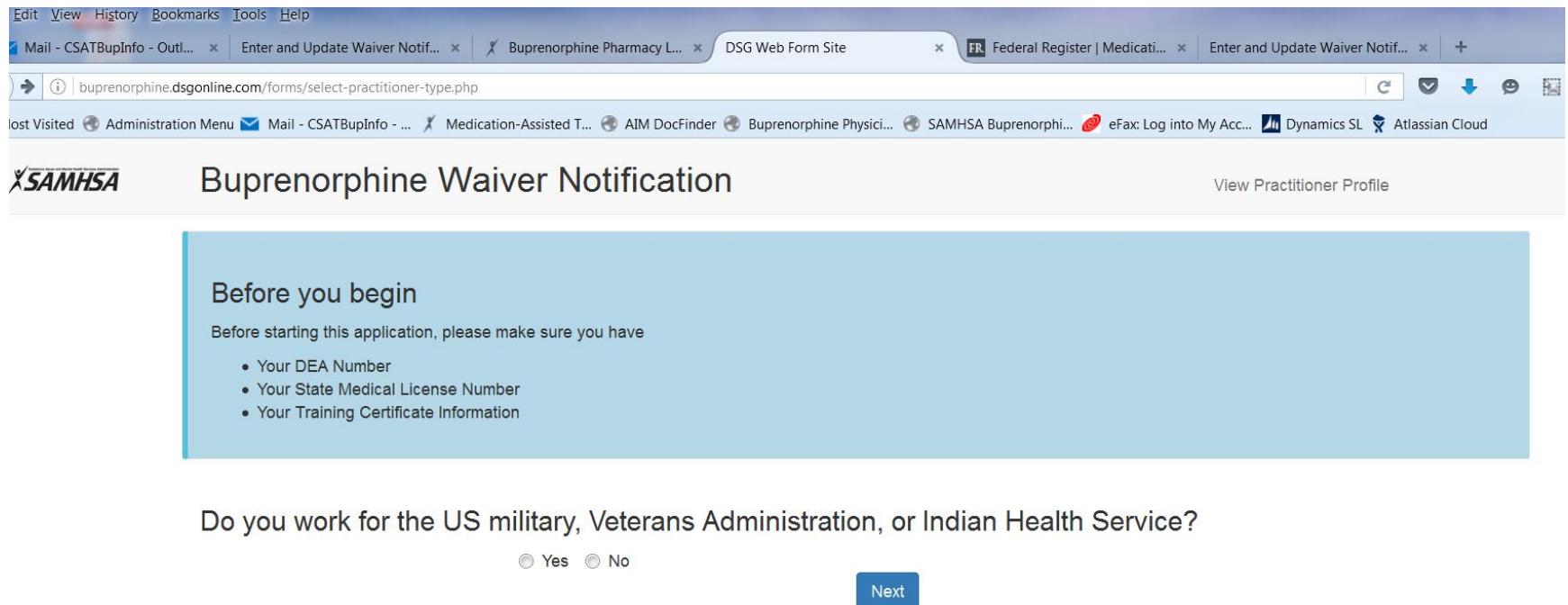
She returns the following day at a time when neither the group nor the counselor is available. She is told she has to attend the relapse prevention workshop in order to get medication. She does not return to the clinic for 4 weeks. When she does, she is smoking more heroin than before, but having no difficulty with finances because she has dropped out of school and is working as a stripper at a local “gentlemen’s club.”

- ***What would you recommend at this point?***

BUPRENORPHINE Waiver Notification Form

Entering a 30 Patient Notification

Submitting a 30 Patient Notification Form Online



Before you begin

Before starting this application, please make sure you have

- Your DEA Number
- Your State Medical License Number
- Your Training Certificate Information

Do you work for the US military, Veterans Administration, or Indian Health Service?

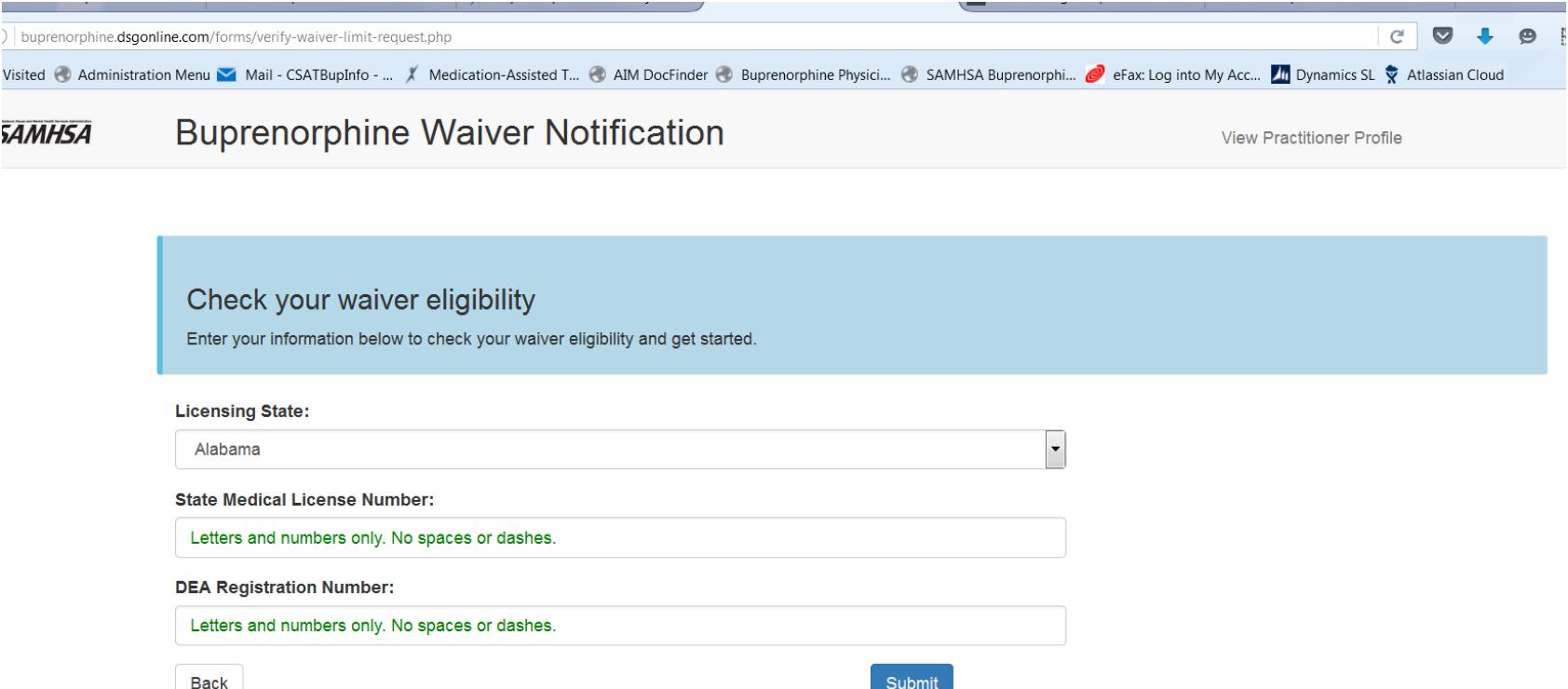
Yes No

Next

Answer the question yes or no and click the Next button.

Check your eligibility

- Use the drop down menu to select your licensing state.
- Enter your medical license number, letter and numbers only. No spaces or dashes.
- Enter your DEA number, letter and numbers only.
- Click the Submit button.



The screenshot shows a web browser window with the following details:

- Address Bar:** buprenorphine.dsgonline.com/forms/verify-waiver-limit-request.php
- Visited:** Administration Menu, Mail - CSATBupInfo - ..., Medication-Assisted T..., AIM DocFinder, Buprenorphine Physici..., SAMHSA Buprenorphi..., eFax: Log into My Acc..., Dynamics SL, Atlassian Cloud
- Page Title:** Buprenorphine Waiver Notification
- Header:** View Practitioner Profile
- Section:** Check your waiver eligibility
- Text:** Enter your information below to check your waiver eligibility and get started.
- Form Fields:**
 - Licensing State:** Alabama (selected in a dropdown menu)
 - State Medical License Number:** Letters and numbers only. No spaces or dashes.
 - DEA Registration Number:** Letters and numbers only. No spaces or dashes.
- Buttons:** Back, Submit

Eligible?

*The system will indicate the number of patients you are eligible to submit a Notification for. Click the Next button.

The screenshot shows a web page titled "Eligible For Waiver Level 30". At the top, there is a "View Practitioner Profile" link. Below the title, a message states: "It appears your information is not in our database. Recheck your data, or click next to apply for the Notificaton of Intent (30 patient limit)." A "Next" button is located on the right side of this message area. The main form area contains three input fields: "Licensing State" (a dropdown menu with a yellow placeholder), "State Medical License Number" (a text input field with a yellow placeholder), and "DEA Registration Number" (a text input field with a yellow placeholder). At the bottom of the form are "Back" and "Submit" buttons.

*The state, medical license and DEA number will be pre-populated.

Complete Notification Form

- 1A. Enter your name and suffix. (M.D. or D.O.)
- 1B. Medical license number will be pre-populated
- 1C. License state will be pre-populated
- 1D. DEA number will be pre-populated

① | buprenorphine.dsgonline.com/forms/100.php

Visited Administration Menu Mail - CSATBupInfo - ... Medication-Assisted T... AIM DocFinder Buprenorphine Physici... SAMHSA Buprenorphi... eFax: Log into My Acc... Dynamics SL Atlassian Cloud

SAMHSA Buprenorphine Waiver Notification 30

Notification of Intent to Use Schedule III, IV, or V Opioid Drugs for the Maintenance and Detoxification Treatment of Opiate Addiction under 21 USC § 823(g)(2)

SMA-167 Form Approved: 0930-0234
Date: 07/31/2018
See OMB Statement Below

Note: Notification is required by § 303(g)(2), Controlled Substances Act (21 USC § 823(g)(2)). See instructions below.

1A. NAME OF PRACTITIONER

First Name	Middle Name	Last Name	Suffix
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

1B. State Medical License Number **1D. DEA Registration Number** 

<input type="text"/>	License State	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>

2. Address – if you are planning to store buprenorphine on site you will need to provide the address you are listed under with DEA. Otherwise you may provide an address in your licensing state. Do not enter a P.O. Box as your street address.

3. Enter phone number

4. Enter fax number

5. Enter email address, twice. Please provide an email address the regularly access. All correspondence from SAMHSA will be via email.

SA

Buprenorphine Waiver Notification **30**

Only one address should be specified. For the practitioner to dispense the narcotic drugs or combinations to be used under this notification, the primary address listed here must be the same primary address listed in the practitioner's registration under § 823(f).

2. ADDRESS OF PRIMARY LOCATION

Address Line 2

City

State

Zip Code

3. TELEPHONE NUMBER

Extension (if applicable)

4. FAX NUMBER

5. EMAIL ADDRESS

Confirm Email Address

6. Purpose of Notification

the New box will be pre-checked

7. Check box, that you will only use approved Schedule III, IV, & V medications

phine.dsgonline.com/forms/100.php

Administration Menu [Mail - CSATBupInfo - ...](#) [Medication-Assisted T...](#) [AIM DocFinder](#) [Buprenorphine Physici...](#) [SAMHSA Buprenorphi...](#) [eFax: Log into My Acc...](#) [Dynamics SL](#) [Atlassian Cloud](#)

4 Buprenorphine Waiver Notification 30

New Notification - an initial notification for a waiver submitted for the purpose of obtaining an identification number from DEA for inclusion in the registration under 21 USC § 823(f).

New Notification, with the intent to immediately facilitate treatment of an individual (one) patient - an initial notification submitted for the purpose described above, with the additional purpose of notifying the Secretary and the Attorney General of the intent to provide immediate opiate addiction treatment for an individual (one) patient pending processing of this waiver notification.

Second Notification - For physicians who submitted a new notification not less than one year ago and intend and need to treat up to 100 patients. (See Office of National Drug Control Policy Reauthorization Act of 2006.)

6. PURPOSE OF NOTIFICATION

New Notification Second notification of need and intent to treat up to 100 patients

New Notification, with the intent to immediately facilitate treatment of an individual (one) patient

7. CERTIFICATION OF USE OF NARCOTIC DRUGS UNDER THIS NOTIFICATION

I certify that I will only use Schedule III, IV, or V drugs or combinations of drugs that have been approved by the FDA for use in maintenance or detoxification treatment and that have not been the subject of an adverse determination.

8. Certification of Qualifying Criteria

Check the appropriate box if you have a sub-specialty in Addiction medicine or psychiatry.

Check the appropriate box for the 8 hour training course you completed.

Enter the date the training was completed.

Enter the city where the training was completed. If you have complete an on-line course type "web" for your city

The state will be pre-populated but you may change it if it does not correspond with where you complete on site training.



Buprenorphine Waiver Notification 30

not been the subject of an adverse determination.

8. CERTIFICATION OF QUALIFYING CRITERIA

I certify that I meet at least one of the following criteria and am therefore a qualifying physician (Check and provide copies of documentation for all that apply):

- Subspecialty board certification in addiction psychiatry from the American Board of Medical Specialties
- Addiction certification from the American Society of Addiction Medicine
- Subspecialty board certification in addiction medicine from the American Osteopathic Association

Completion of not less than eight hours of training for the treatment and management of opioid-dependent patients provided by the following organization(s)

- American Society of Addiction Medicine (ASAM)
- American Academy of Addiction Psychiatry (AAAP)
- American Medical Association (AMA)
- American Osteopathic Association (AOA or AOAAM)
- American Psychiatric Association (APA)
- Other (Specify, include date and location)

Date and location of training (Use "Web" for city if web training was received):

Date

08/11/2016

City

web

State

New Jersey

- Participation as an investigator in one or more clinical trials leading to the approval of a Schedule III, IV, or V narcotic drug for maintenance or detoxification treatment
- State medical licensing board-approved experience or training in the treatment and management of opioid-dependent patients
- Other
Specify

9. Certification of Capacity Check box –must certify that you will refer patients for counseling.

10. Certification of Maximum Patient Load –button is pre-populated

11. Consent to Release Contact Information –click the “consent” or “do not consent” button

12. Check the box which states that you have not knowingly given false information.

9. CERTIFICATION OF CAPACITY

I certify that I have the capacity to refer patients for appropriate counseling and other appropriate ancillary services.

10. CERTIFICATION OF MAXIMUM PATIENT LOAD

I certify that I will not exceed 30 patients for maintenance or detoxification treatment at one time.

Second Notification - I need to treat up to 100 patients and I certify that I will not exceed 100 patients for maintenance or detoxification treatment at one time.

The SAMHSA Buprenorphine Physician and Treatment Program Locator Web site is publicly accessible at http://buprenorphine.samhsa.gov/bwns_locator. The Locator Web site lists the names and practice contact information of physicians with DATA waivers who agree to be listed on the site. The Locator Web site is used by the treatment-seeking public and health care professionals to find physicians with DATA waivers. The Locator Web site additionally provides links to many other sources of information on substance abuse. No physician listings on the SAMHSA Buprenorphine Physician and Treatment Program Locator Web site will be made without the express consent of the physician.

11. CONSENT TO RELEASE IDENTIFYING INFORMATION TO SAMHSA BUPRENORPHINE PHYSICIAN AND TREATMENT PROGRAM LOCATOR WEB SITE

I consent to the release of my name, primary address, and phone number to the SAMHSA Buprenorphine Physician and Treatment Program Locator Web site.

I do not consent to the release of my name, primary address, and phone number to the SAMHSA Buprenorphine Physician and Treatment Program Locator Web site.

12.

I certify that the information presented above is true and correct to the best of my knowledge. I certify that I will notify SAMHSA at the address below if any of the information contained on this form changes. Note: Any false, fictitious, or fraudulent statements or information presented above or misrepresentations relative thereto may violate Federal laws and could subject you to prosecution, and/or monetary penalties, and/or denial, revocation, or suspension of DEA registration. (See 18 USC § 1001; 31 USC §§ 3801–3812; 21 USC § 824.)

Type your name in the box as your signature.
Type in your DEA number matching the one you entered initially.
Click the Submit button.

12.

I certify that the information presented above is true and correct to the best of my knowledge. I certify that I will notify SAMHSA at the address below if any of the information contained on this form changes. Note: Any false, fictitious, or fraudulent statements or information presented above or misrepresentations relative thereto may violate Federal laws and could subject you to prosecution, and/or monetary penalties, and or denial, revocation, or suspension of DEA registration. (See 18 USC § 1001; 31 USC §§ 3801–3812; 21 USC § 824.)

Please type your name to sign this electronic form. Submission Date: 08/11/2016

Please re-enter your DEA Registration Number to verify:

Submit

This form is intended to facilitate the implementation of the provisions of 21 USC § 823(g)(2). The Secretary of DHHS will use the information provided to determine whether practitioners meet the qualifications for waivers from the separate registration requirements under the Controlled Substances Act (21 USC § 823(g)(1)). The Drug Enforcement Administration will assign an identification number to qualifying practitioners and the number will be included in the practitioner's registration under 21 USC § 823(f).

Privacy Act Information

Authority: Section 303 of the Controlled Substances Act of 1970 (21 USC § 823(g)(2)). Purpose: To obtain information required to determine whether a practitioner meets the requirements of 21 USC § 823(g)(2). Routine Uses: Disclosures of information from this system are made to the following categories of users for the purposes stated:

When the Notification is submitted successfully you will receive a confirmation.

If it has not, an error message will indicate what needs to be correct .

ost Visited  Administration Menu  Mail - CSATBupInfo - ...  Medication-Assisted T...  AIM DocFinder  Buprenorphine Physici...  SAMHSA Buprenorphi...  eFax: Log into My Acc...  Dynamics SL  Atlassian Cloud

 Buprenorphine Waiver Notification 30

Notification of Intent to Use Schedule III, IV, or V Opioid Drugs for the Maintenance and Detoxification Treatment of Opiate Addiction under 21 USC § 823(g)(2)

SMA-167 Form Approved: 0930-0234
Date: 07/31/2018
See OMB Statement Below

Note: Notification is required by § 303(g)(2), Controlled Substances Act (21 USC § 823(g)(2)). See instructions below.

✓ Your Waiver Notification has been successfully submitted.

Overview of Clinical Tools

WWW.PCSSNOW.ORG

- For More Information and FREE training and educational resources on Medication Assisted Treatment (MAT) visit www.pcssnow.org.
- PCSS is a collaborative effort led by the American Academy of Addiction Psychiatry (AAAP) in partnership with the: Addiction Technology Transfer Center (ATTC); American Academy of Family Physicians (AAFP); American Academy of Neurology (AAN); American Academy of Pain Medicine (AAPM); American Academy of Pediatrics (AAP); American College of Emergency Physicians (ACEP); American College of Physicians (ACP); American Dental Association (ADA); American Medical Association (AMA); American Osteopathic Academy of Addiction Medicine (AOAAM); American Psychiatric Association (APA); American Psychiatric Nurses Association (APNA); American Society of Addiction Medicine (ASAM); American Society for Pain Management Nursing (ASPMN); Association for Medical Education and Research in Substance Abuse (AMERSA); International Nurses Society on Addictions (IntNSA); National Association of Community Health Centers (NACHC); National Association of Drug Court Professionals (NADCP), and the Southeast Consortium for Substance Abuse Training (SECSAT).
- PCSS-MAT's mission is to provide free, evidence-based resources to train clinicians and the public about the effectiveness of medications used for treating opioid addiction, including buprenorphine, naltrexone and methadone, in order to more effectively address this public health crisis.

PCSS Mentoring Program

- PCSS Mentor Program is designed to offer general information to clinicians about evidence-based clinical practices in prescribing medications for opioid addiction
- PCSS Mentors are a national network of providers with expertise in **addictions, pain, evidence-based treatment including medication-assisted treatment**
- 3-tiered approach allows every mentor/mentee relationship to be unique and catered to the specific needs of the mentee
- No cost

For more information visit:

pcssNOW.org/clinical-coaching

PCSS Discussion Forum

Have a clinical question?



“

Ask a Colleague

A simple and direct way to receive an answer related to medication-assisted treatment. Designed to provide a prompt response to simple practice-related questions.

[Ask Now ▶](#)



<http://pcss.invisionzone.com/register>



Providers
Clinical Support
System

PCSS is a collaborative effort led by the American Academy of Addiction Psychiatry (AAAP) in partnership with:

American Academy of Family Physicians	American Psychiatric Association
American Academy of Neurology	American Society of Addiction Medicine
Addiction Technology Transfer Center	American Society of Pain Management Nursing
American Academy of Pain Medicine	Association for Medical Education and Research in Substance Abuse
American Academy of Pediatrics	International Nurses Society on Addictions
American College of Emergency Physicians	American Psychiatric Nurses Association
American College of Physicians	National Association of Community Health Centers
American Dental Association	National Association of Drug Court Professionals
American Medical Association	Southeastern Consortium for Substance Abuse Training
American Osteopathic Academy of Addiction Medicine	

P | C | S | S

Providers
Clinical Support
System

Module 6: Neurobiology

Objectives

1. **Describe the physiologic effects of opioids and the receptors involved**
2. Describe the effects of opioids on the positive and negative reinforcement pathways of the brain
3. Describe the effects of Agonists, Antagonists, and Partial Agonists on the mu receptor
4. Describe and recognize manifestations of opioid tolerance, intoxication, overdose, and withdrawal

Definitions

- The term “Opioid” refers to ALL:
 - Opiates
 - Derived compounds
 - Natural and synthetic analogs

Type	Examples
Endogenous Opioids	Endorphins, Dynorphins, Enkephalins
Opiates	Morphine, Codeine
Semisynthetic Opioids	Buprenorphine, Heroin, Oxycodone
Fully Synthetic Opioids	Fentanyl, Methadone

Opioid Receptors and Physiology

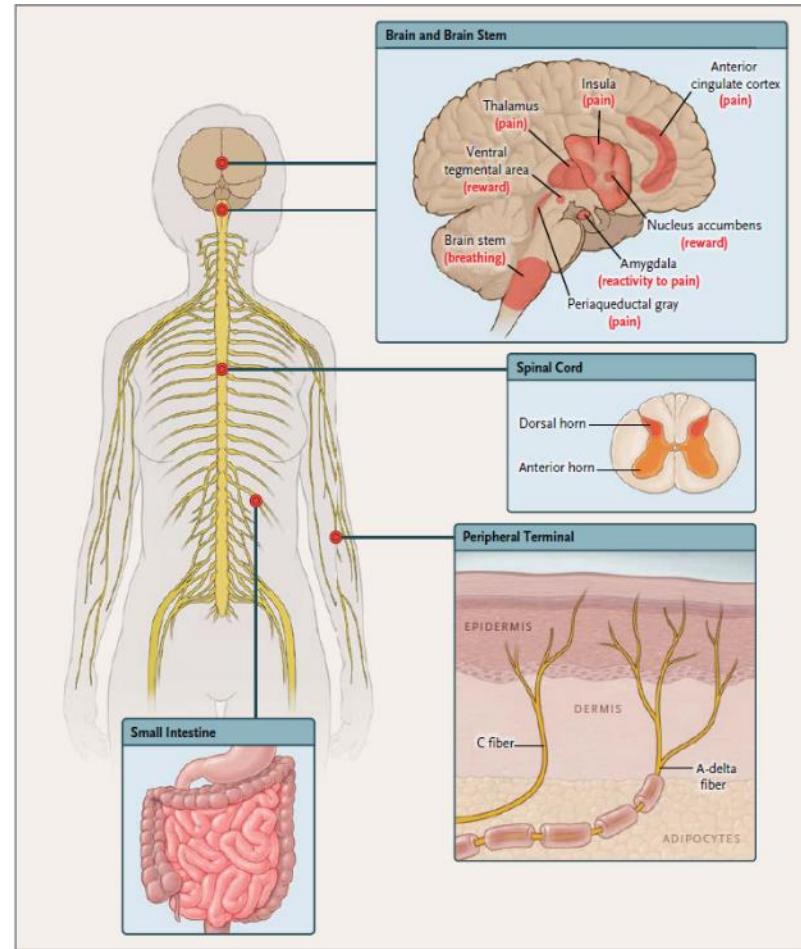
- Humans have at least three types of opioid receptors located in the central nervous system, peripheral nerves, gut, and cells of the immune system
- Endogenous opioids (produced naturally in the body):
 - Part of normal physiologic responses to injury, pain, and stress

Opioid Receptors	Endogenous Ligands
mu (μ)	Endorphins
kappa (κ)	Dynorphins
delta (δ)	Enkephalins

- Most of the clinically significant effects of prescribed and illicit opioids are attributed to activity at the mu receptor

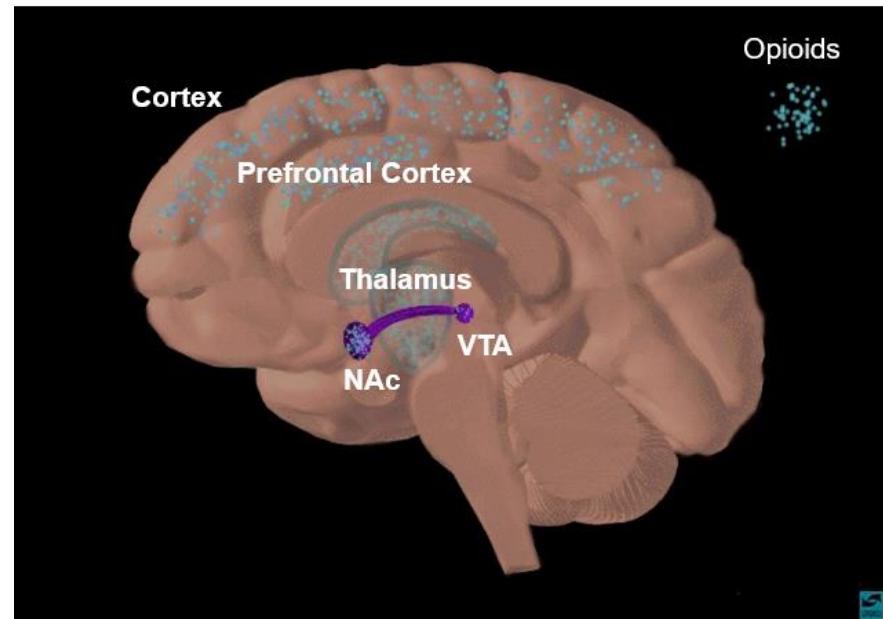
Opioids Receptor Locations

- Main target for Opioids are Mu Receptors
- Densely concentrated in:
 - Brain regions associated with:
 - Pain perception
 - Reward pathways
 - Respiratory function
 - Spinal Cord
 - GI System
 - Peripheral regions



Opioid Binding

- Mu opioid receptors are distributed widely in the brain.
 - Binding in the thalamus produces analgesia;
 - Binding in prefrontal cortex contributes to impaired thinking of an individual's decision about how important use of the drug is;
 - Binding in the nucleus accumbens (NAc)/ventral tegmental area (VTA) is associated with euphoria that some experience (i.e. the "high").



Physiologic Effects of Opioids

- Activation of **mu** receptors in the central nervous system causes effects including:
 - analgesia
 - sedation
 - euphoria
 - pupil constriction
 - decreased respiration → **potentially lethal in overdose**
 - decreased heart rate
 - nausea
- Activation in the gut decreases motility and can cause constipation
- Activation in peripheral tissues contributes to analgesic effects and modulates inflammatory responses

Objectives

1. Describe the physiologic effects of opioids and the receptors involved
2. **Describe the effects of opioids on the positive and negative reinforcement pathways of the brain**
3. Describe the effects of Agonists, Antagonists, and Partial Agonists on the mu receptor
4. Describe and recognize manifestations of opioid tolerance, intoxication, overdose, and withdrawal

Biology of Reinforcement (Motivation of Behavior)

Positive reinforcement

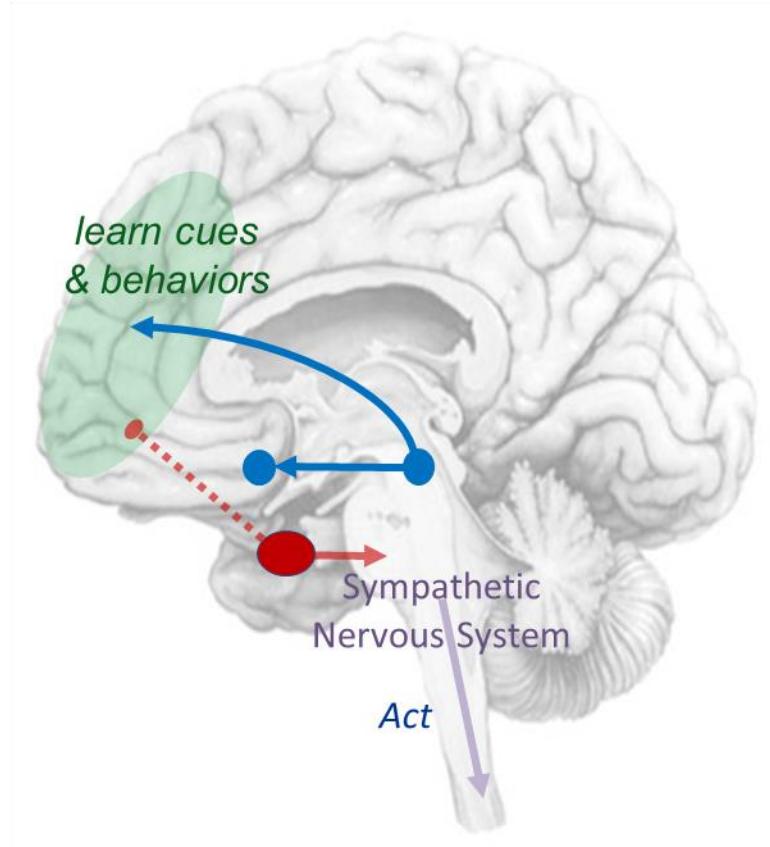
cells in the brainstem release **dopamine** in the **nucleus accumbens**



liking and wanting



seek out and do more



Negative reinforcement

cells in the **amygdala** are stimulated



anxiety, fear, distress

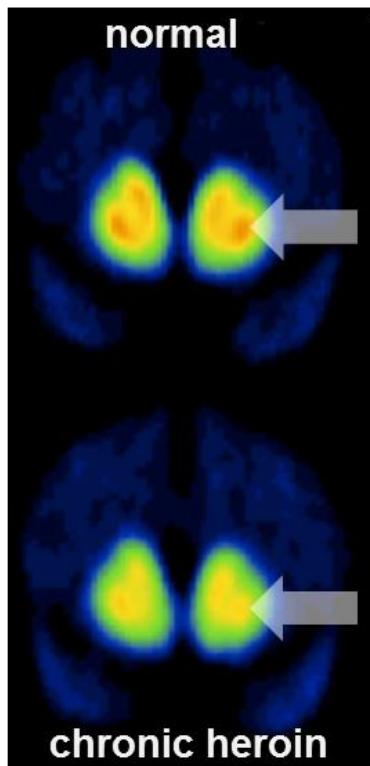


avoid things that cause, do things that relieve fear

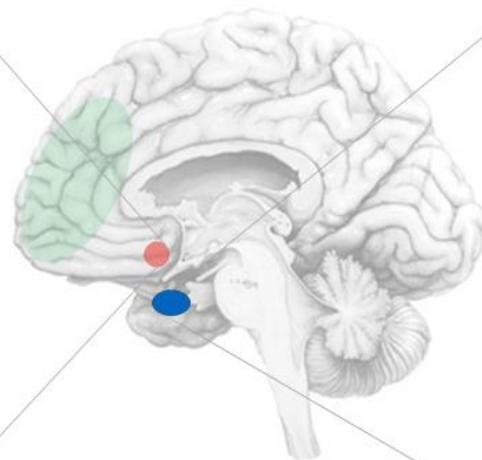
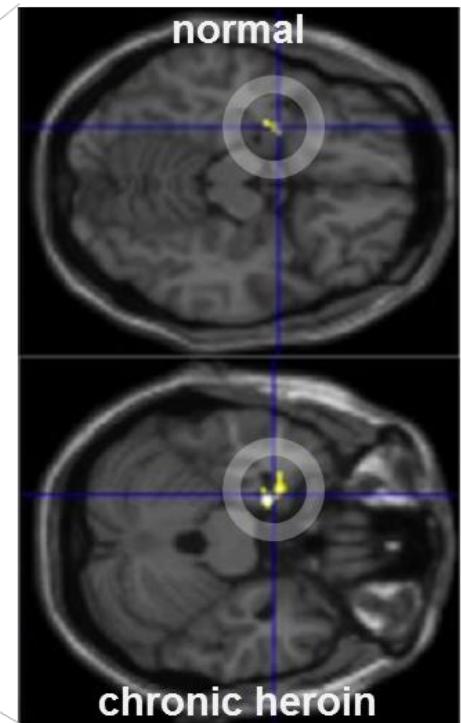
Attention, thinking, and judgment use the **prefrontal cortex**

Imaging of Addiction

dopamine receptors



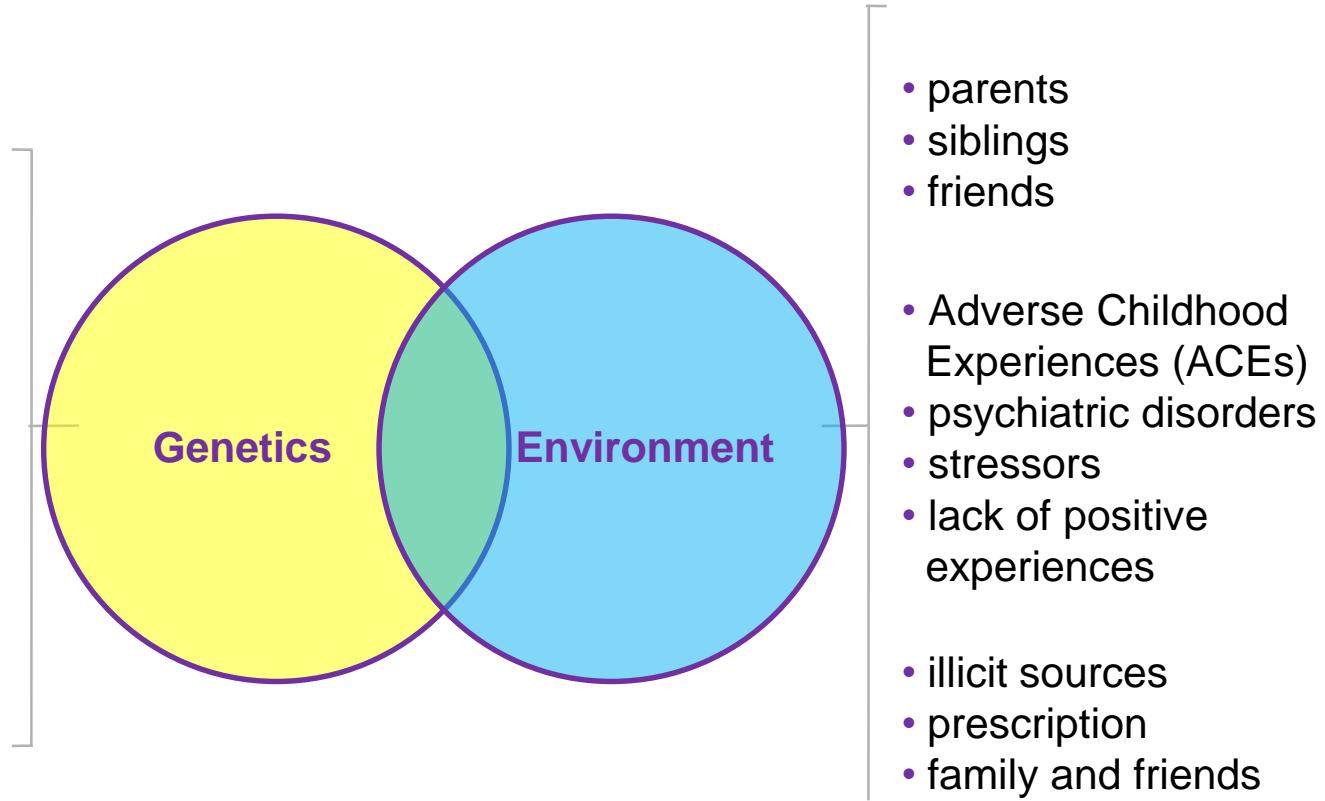
amygdala reactivity



Vulnerability to SUDs

- opioid receptors
- dopamine
- other transmitters
- intracellular signals

- novelty seeking
- harm avoidance
- impulsivity
- psychiatric disorders

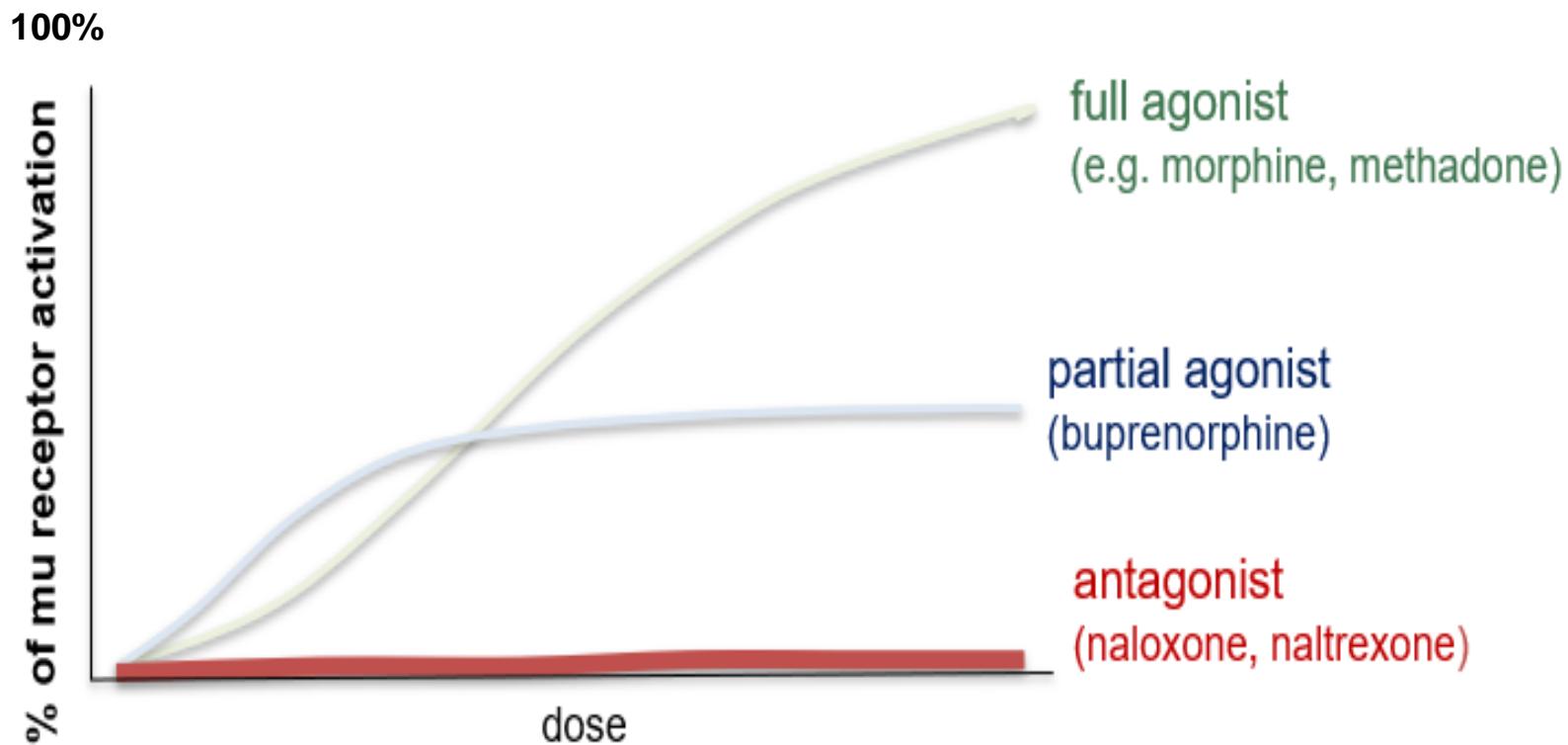


Anokhin et al., 2015
Milivojevic et al., 2012
Reed et al., 2014
Volkow et al., 2016

Objectives

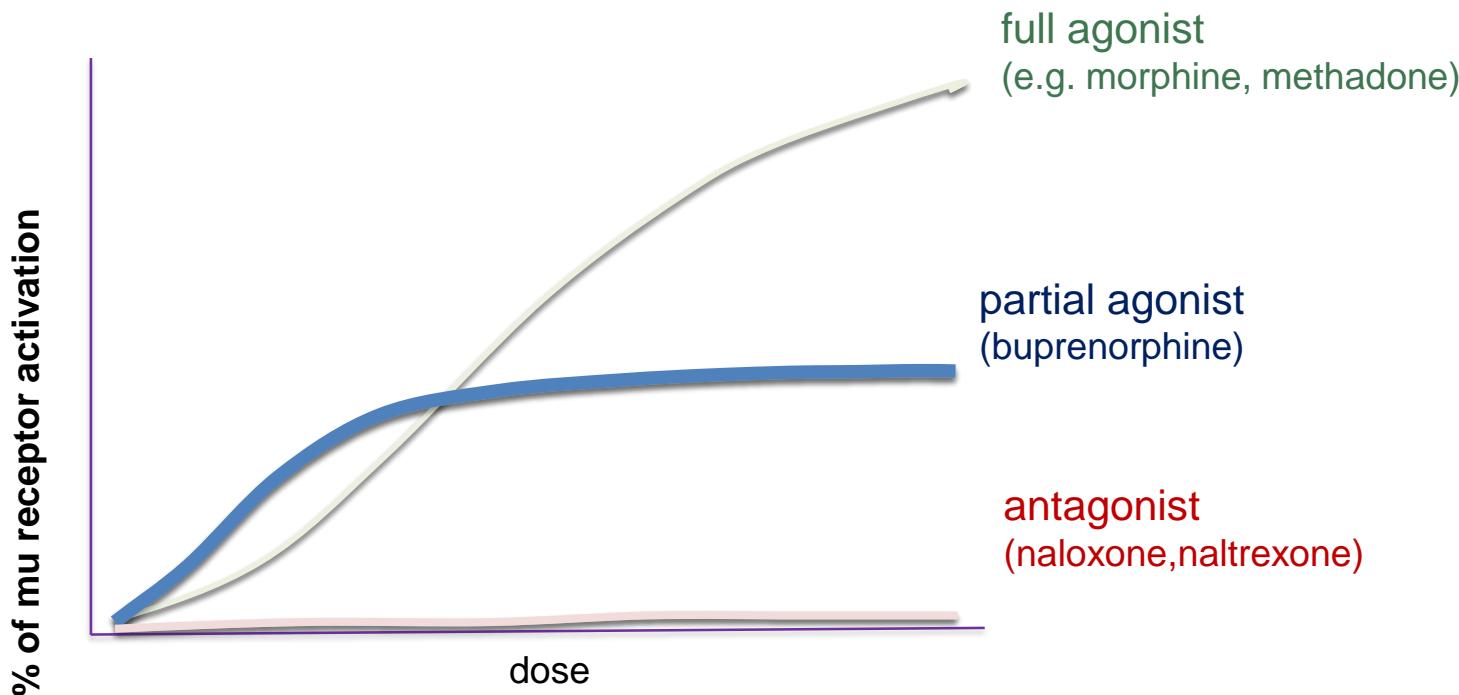
1. Describe the physiologic effects of opioids and the receptors involved
2. Describe the effects of opioids on the positive and negative reinforcement pathways of the brain
3. **Describe the effects of Agonists, Antagonists, and Partial Agonists on the mu receptor**
4. Describe and recognize manifestations of opioid tolerance, intoxication, overdose, and withdrawal

Opioid Ligand Pharmacology



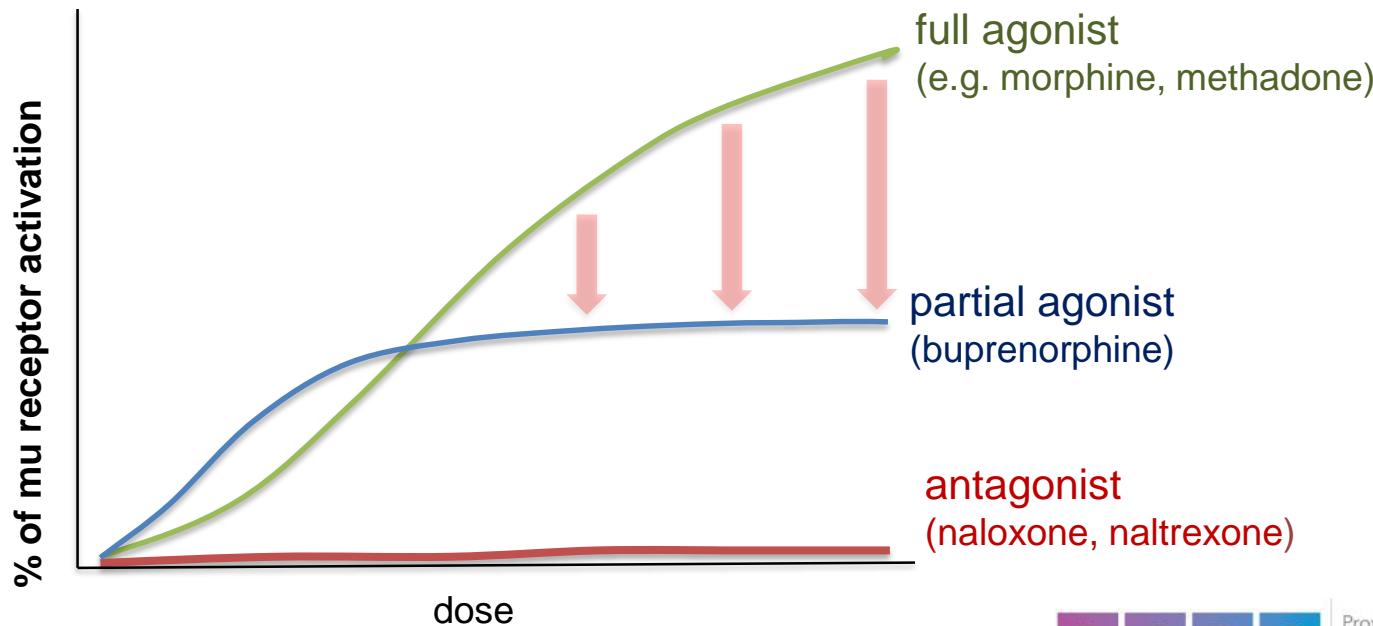
Opioid Partial Agonist Therapy

- The partial agonist **buprenorphine** prevents withdrawal and maintains a steady level of opioid activity like methadone, but like naltrexone also blocks the receptor because of a higher affinity
- It is *unlikely* to lead to fatal respiratory suppression



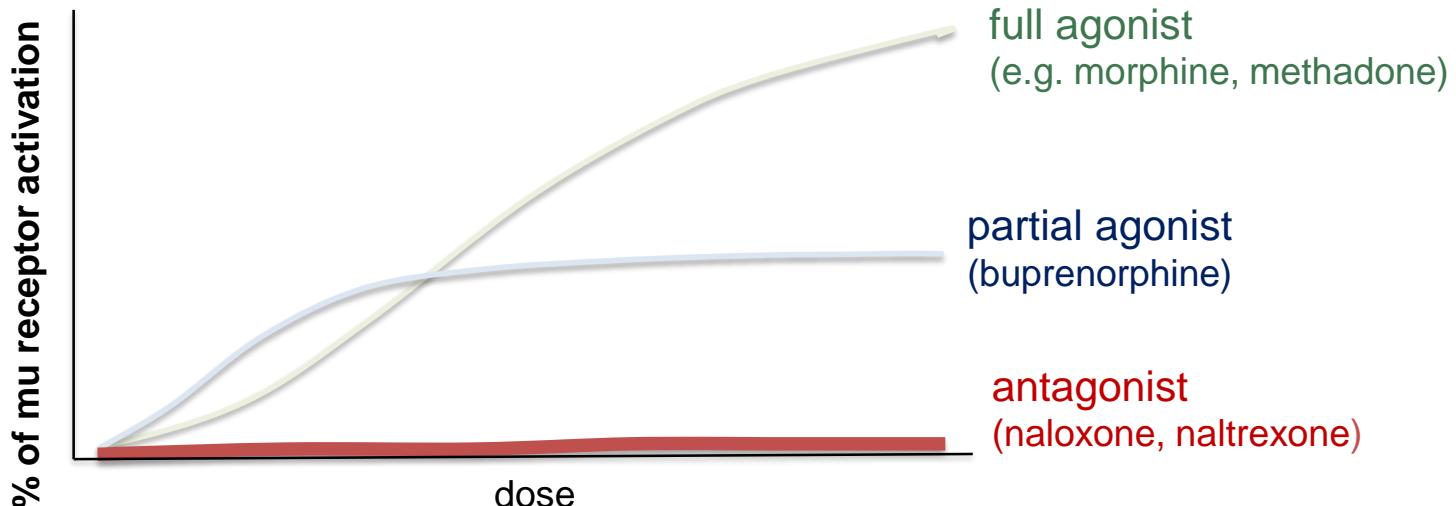
Precipitated Withdrawal

- Because of its high affinity for mu opioid receptors, buprenorphine can displace other agonists (such as heroin, methadone)
- The sudden drop from full-agonist to partial-agonist stimulation of opioid receptors can cause sudden and severe withdrawal symptoms, a condition known as ***precipitated withdrawal***



Opioid Antagonist Therapy

- The antagonist **naltrexone**, is available as tablets and as a once-monthly long-acting intramuscular injection
 - Blocks mu opioid receptors so that use of opioid agonists like heroin no longer produces reinforcing effects



Objectives

1. Describe the physiologic effects of opioids and the receptors involved
2. Describe the effects of opioids on the positive and negative reinforcement pathways of the brain
3. Describe the effects of Agonists, Antagonists, and Partial Agonists on the mu receptor
4. **Describe and recognize manifestations of opioid tolerance, intoxication, overdose, and withdrawal**

Tolerance to Opioid Effects

- With repeated exposure to opioids, tolerance (needing more to produce the same effect) develops
- Tolerance involves changes in receptor numbers and functioning
- Tolerance develops at different rates, and to different extents, for different effects:

rapid tolerance

- sedation
- euphoria
- respiratory depression
- nausea

little or no tolerance

- constipation
- pupil constriction

- Tolerance is **lost** while abstaining from opioids for an extended period, including during treatment with an opioid antagonist (i.e. naltrexone)

Opioid Intoxication

- **Signs**

- Bradycardia
- Decreased respiratory rate
- Shallow breathing
- Pinpoint pupils
- Hypotension
- Hypothermia
- Sedation
- Slowed movement
- Slurred speech
- Head nodding

- **Symptoms**

- Euphoria
- Analgesia
- Calmness
- Somnolence

Opioid Overdose

■ Signs and Symptoms:

- Decreased level of consciousness to the point of potential unresponsiveness
- Pinpoint pupils
- Respiratory depression
- Slowed or stopped breathing (potentially leading to cardiac arrest)
- Pale Face, blue or purple lips/nails

■ Treatment:

• Naloxone:

- NARCAN® Nasal Spray
- EVIZIO® prefilled auto-injection device
- Generic Injectable products for nasal atomizer, intravenous, intramuscular, or subcutaneous use



Opioid Withdrawal

- Stopping opioids abruptly after becoming physically dependent leads to a withdrawal syndrome
- Administering an opioid antagonist (naloxone/naltrexone), or a high affinity partial agonist (buprenorphine) may result in withdrawal in an individual who has used full agonist opioids
- Features of opioid withdrawal reflect sympathetic activity and physiologic changes secondary to dependence



Opioid Withdrawal Signs and Symptoms

- **Signs**

- tachycardia
- hypertension
- hyperthermia
- insomnia, yawning
- dilated pupils
- hyperreflexia
- tearing, runny nose
- sweating,
“gooseflesh”
- muscle spasms

- **Symptoms**

- abdominal cramps
- nausea
- vomiting
- diarrhea
- muscle/bone aches
- anxiety



Opioid Withdrawal

Timing of Symptoms

- All opioids produce similar withdrawal symptoms when stopped abruptly
 - Severity varies with the amount and duration of use
- Timing of withdrawal symptoms depends on the opioid:
 - With longer-acting opioids, symptoms usually begin later and last longer:

Opioids used	Onset of withdrawal	Symptoms peak	Duration of withdrawal
Short-acting opioids (e.g. heroin, oxycodone)	6-12 hours	36-72 hours	about 5 days
Long-acting opioids (e.g. methadone)	36-48 hours	~ 72 hours	up to 3 weeks

Opioid Withdrawal Management

- Opioid withdrawal can be treated symptomatically with the following examples:
 - clonidine: for restlessness and anxiety
 - loperamide: for diarrhea
 - ondansetron: for nausea and vomiting
 - ibuprofen: for muscle and bone aches
- Alternatively, an opioid such as methadone or buprenorphine can be administered to relieve symptoms, then tapered gradually over days or weeks so that withdrawal symptoms are less intense
- This approach of *medically-supervised withdrawal*, historically called 'detox', can make withdrawal less uncomfortable, **however**, has been shown in numerous studies to be ineffective at preventing return to opioid use



Summary

- Although humans have three types of opioid receptors: mu, kappa and delta; the main target for opioids are mu receptors which have multiple effects including analgesia, euphoria, sedation and decreased respiration and heart rate.
- Opioids result in strong positive reinforcement (which causes individuals to seek out and use more opioids) and negative reinforcement (which impels individuals to avoid not having opioids which can then result in fear, anxiety and distress) pathways.
- Agonists (e.g. Methadone), Antagonists (e.g. Naltrexone, naloxone), and Partial Agonists (e.g. Buprenorphine) have distinct effects on the mu receptor. Because of its partial agonism buprenorphine is unlikely to lead to fatal respiratory suppression even at high doses.
- Opioid withdrawal and overdose have distinct symptoms and can be treated conservatively with supportive medications, MAT or naloxone respectively.

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Module 7: Evidence-Based Counseling

Objectives

- 1. Outline the key components of behavior**
2. Describe various evidence based counseling approaches for opioid use disorders
3. Explain core principles of Motivational Interviewing

Treatment

Psychosocial

- Practice alternative behaviors
- Manage environment
- Address triggers
- Consider associated depression and anxiety



Pharmacologic

- Prevent withdrawal
- Reduce biologic drive for drug use

ABC's of Behavior

Antecedents

- What happened *before*?

Cues
Triggers
Stressors

Behavior

- What did you *do*?

What could be done instead?

Consequences

- What came *after*?

*Our brains listen most to
immediate consequences.*

Objectives

1. Outline the key components of behavior
2. **Describe various evidence based counseling approaches for opioid use disorders**
3. Explain core principles of Motivational Interviewing

Various Modes of Evidence Based Counseling Approaches

- Cognitive-Behavioral Therapy
- Medication Management
- Mutual Support Groups
(e.g. AA, NA, Smart Recovery)
- Motivational Interviewing



Cognitive Behavioral Therapy

- Evidence-based on social learning theories and principles of operant conditioning
- Key Features:
 - An emphasis on functional analysis of drug use, i.e., understanding drug use within the context of its antecedents, behaviors and consequences
 - Skills training, that help the individual recognize:
 - States/situations of vulnerability to drug use;
 - Strategies to avoid high-risk situations whenever possible
 - Utilize skills to cope effectively with those situations if they are unavoidable

Medical Management

Most sessions 15-25 minutes, weekly to monthly:

- Monitor self-reported use, lab markers, consequences
- Monitor adherence, response, adverse effects
- Educate about SUD consequences, treatments
- Encourage abstinence
- Encourage use of community supports and healthy lifestyle changes

Mutual Support Groups

■ **Alcoholics / Narcotics Anonymous**

- Based on a 12-step model of sobriety with a fundamental evoking of a Higher Power
- Mutual support groups have can provide a support network for patients
- Many patients with opioid use disorder attend AA meetings
- Notably, some groups reject MAT— encourage patients to find group more accepting in the use of medication



■ **Self Management and Recovery Training (SMART) Recovery**

- Is based on Secular principles and uses Stages of change, MI, CBT
- Recognized by the National Institute on Drug Abuse (NIDA) and the National Institute on Alcohol Abuse and Alcoholism (NIAAA) as evidence based

Objectives

1. Outline the key components of Behavior
2. Describe various non-Medication Assisted Treatment approaches for opioid use disorders
3. **Explain Core Principles of Motivational Interviewing (MI)**

Motivational Interviewing (MI)

- Developed by William Miller and Stephen Rollnick in the 1980's
 - Clinical tool conceptualized for individuals "less ready" for change
- Over 25,000 articles citing MI
- 200 Randomized Controlled Trials
- Effectiveness of MI varies widely across counselors, studies, and sites within studies
- Fidelity of delivery affects outcomes



MI Definitions and Skills

▪ Brief Definition

- Collaborative conversation style for strengthening a person's own motivation and commitment to change in a spirit of acceptance and compassion
- Person-centered counseling style for addressing the common problem of ambivalence to change

▪ Core Interviewing Skills

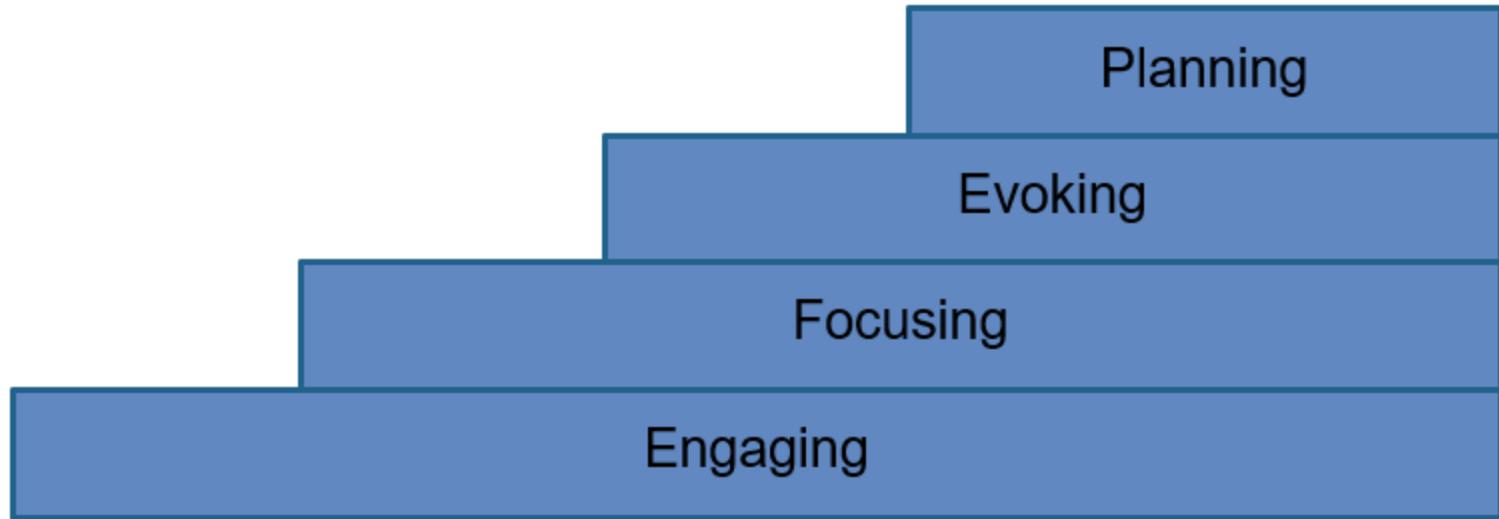
- Open-ended Questions
- Affirming
- Reflecting:
 - Simple
 - Complex
- Summarizing

Practical Aspects of MI

- Be open minded
- Listen > ask > give advice
- Start with open-ended questions and encourage interaction
- Be concise; avoid wordiness
- Avoid interrupting
- Cooperate, do not force change
- Use patient as consultant
- Remain open and empathic



Four Processes in MI



- **Engage** individuals mutually and agree upon goals
- **Focus** on their agenda
- **Evoke** reasons for change
- **Plan** for the long-run by setting up achievable goals

Engaging in the MI Process

■ Engaging:

- How comfortable is this person in speaking with me?
- How supportive and helpful am I being?
- Do I understand this person's perspective and concerns?
- How comfortable do I feel in this conversation?
- Does this feel like a collaborative partnership?



Focusing in the MI Process

■ **Focusing:**

- What are the patient's goals for change?
- Are my aspirations for change different than this patient?
- Are we working together with a common purpose?
- Does it feel like we are moving together?
- Do I have a clear sense of where we are going?
- Does it feel more like dancing or wrestling?



Responses

MI-Consistent	MI-Inconsistent
Asking Permission	Giving advice or information without permission
Affirming and Supporting	Confronting the person by disagreeing, arguing, correcting, shaming, blaming, criticizing, labeling, ridiculing, or questioning the person's honesty
Emphasizing freedom of choice, autonomy and control	Directing the person by giving orders, commands, or otherwise challenging the person's autonomy

Evoking Change in the MI Process

■ **Evoking:**

- What are the person's own reasons for change?
- Is the reluctance more about confidence in their potential for change?
- What change talk am I hearing?
- Am I seeing too far or moving too fast in a particular direction?
- Is the Righting Reflex pulling me to be the one pushing for change?

Facilitating Change:

Change Talk

	Questions	Type of Change Talk
Desire	What would you <u>like</u> to be different?	Preparatory
Ability	What do you think you <u>could</u> do?	Preparatory
Reasons	What would be some good <u>reasons</u> to make this change?	Preparatory
Need	How <u>important</u> is it for you to do this?	Preparatory
Commitment	So what do you think you <u>will</u> do?	Mobilizing
Activation	What are you <u>willing</u> to do?	Mobilizing
Taking Steps	What steps have you already taken?	Mobilizing

Planning in the MI Process

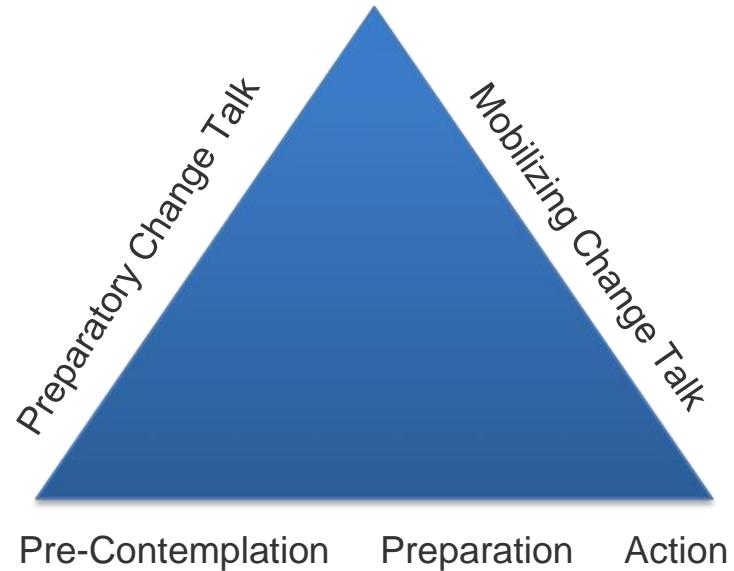
■ Planning:

- What would be a reasonable next step towards change?
- What would help this person move forward?
- Am I remembering to evoke rather than prescribe a plan?
- Am I offering needed information or advice with permission?
- Am I retaining a sense of quiet curiosity about what will work best for this person?



Ambivalence

- Ambivalence is a normal step on the road to change
 - Needs to be explored not confronted
 - Can involve simultaneously conflicting motivations
 - Contemplating change involves self-talk, thinking about the pros and cons of available alternatives



Summary

- The key components of behavior include: Antecedents, Behavior and Consequences.
- Self-help groups can make an important contribution to the recovery process.
- MI is a collaborative, goal-oriented style of communication designed to strengthen personal motivation and commitment to a specific within an atmosphere of acceptance and compassion.
- The spirit of MI is marked by partnership, acceptance, compassion, and evocation. MI occurs in four processes that build on one another: engaging, focusing, evoking, and planning.

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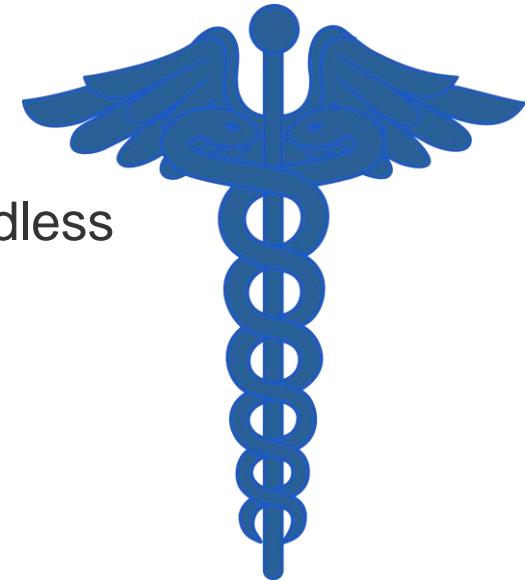
Module 8: Clinical Management

Objectives

1. List topics to address during follow-up Medication-Assisted Treatment (MAT) visits
2. Describe key elements of clinical documentation
3. Describe key elements of record-keeping practices
4. Describe strategies to support Recovery

Follow-up Visits General

- Encouragement: Treatment and Recovery works
- Empathy: Using words and body language
- Use Motivational Interviewing (MI) approach (regardless of particular psychosocial intervention)
- Emphasize that the most consistent predictors of successful outcome are:
 - Retention in formal treatment and/or
 - Active involvement with community support for recovery
- If patient drops out – make efforts to contact patient (with compassion and understanding) and encourage patient to reengage in treatment



Language and Stigma

- Addiction is one of the most stigmatized conditions
- Individuals with substance use disorders are viewed more negatively than people with physical or psychiatric disabilities
- Use of stigmatizing language (such as “substance abuser” rather than as a “person with a substance use disorder”) can adversely affect quality of care and subsequent treatment outcomes
- Broad consensus for adoption of clinical, non-stigmatizing “Person First” language for substance use



Language of Recovery

- Respectful
- Non-Judgmental
- Honest
- Clear and Understandable
- Supportive

	Recovery Language	Potentially Stigmatizing Language
	Substance Use Disorder	Substance Abuse
	Person with a substance use disorder	Addict
	Drug Free / Free from illicit and non-prescribed medications	Clean and Sober
	Recurrence of substance use	Relapsed / Slipped
	Medically supervised withdrawal	Detox
	Positive Drug Screen	Dirty Urine
	Negative Drug Screen	Clean

Objectives

1. List topics to address during follow-up MAT visits
2. **Describe key elements of clinical documentation**
3. Describe key elements of record-keeping practices
4. Describe strategies to support Recovery

Clinical Documentation

Elements	Details
General	Open-ended
Symptoms	General, Psychiatric, SUD-specific
Diagnosis	Mild, Moderate, Severe
Medications	Rationale for type of MAT and formulation (pill vs. film) Adherence, Effectiveness/Side-effects Upcoming changes (doses, formulations, refills)
Substance Use	Self-reported use, Cravings, Triggers, Supports/Skills
Lab Results	Current and past test results Upcoming changes (frequency/schedule of testing)
Safety Planning	Suicidal ideation, Risk of harm to others, Overdose risk
Goals of Treatment	Set shared agenda and support collaboration

Clinical Documentation

– Risk Assessment and Management

- Screening:
 - Patients with Opioid Use Disorders are at an increased risk of suicidal behavior or suicide:
 - Self-harm thoughts/actions
 - Suicidal ideation/planning
- Management:
 - Self-Harm Thoughts/Suicidal Ideation: Crisis Services; 911; ER; In-patient hospitalization
 - Risk of Harm to Others: Duty to Warn; DCF, Elder protective Services, 911
 - Overdose Risk: Provide naloxone (Narcan[®], Evzio[®])
- Document clinical decision process of risk assessment and safety planning

Objectives

1. List topics to address during follow-up MAT visits
2. Describe key elements of clinical documentation
3. **Describe key elements of record-keeping practices**
4. Describe strategies to support Recovery

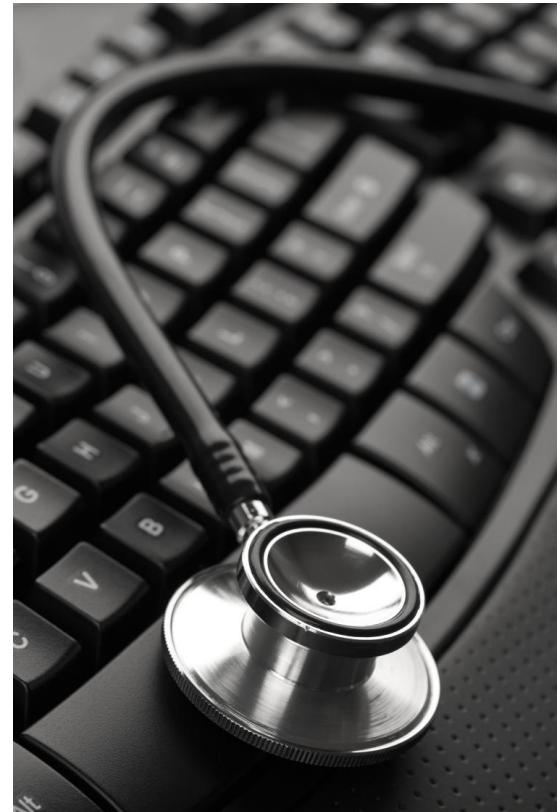
Code of Federal Regulations (CFR) 42 C.F.R. Part 2

- 42 C.F.R. Part 2:
 - Requires that providers providing opioid addiction treatment obtain signed patient consent before disclosing individually identifiable addiction treatment information to any third party
 - Including activities such as telephoning or faxing addiction treatment prescriptions to Pharmacies
 - Additional Information is available at:
<https://www.samhsa.gov/about-us/who-we-are/laws-regulations/confidentiality-regulations-faqs>
- An Example Consent Form can be found in TIP-40:
https://www.ncbi.nlm.nih.gov/books/NBK64245/pdf/Bookshelf_NBK64245.pdf
- Consequences of violating or disregarding federal confidentiality statutes concerning substance use disorder treatment records:
 - Criminal penalty
 - For a program, could lose license or certification
 - Patients may take legal action

Medical Record Keeping

Storage of Records

- Must keep available according to state and federal requirements
- Advise regulatory agencies of central storage of medical records at time of contact
- Must be kept in a double-locked, secure place when not in use
- Note: Electronic Medical Records meet these criteria



Drug Enforcement Agency (DEA)

- The DEA:

- Authorized by the Controlled Substances Act (21 U.S.C. 822 (f) 880 and 21 CFR 1316.03 to:
 - Enter controlled premises (registered locations) and
 - Conduct periodic inspections to ensure compliance with recordkeeping, security and other requirements of the Controlled Substances Act
- Responsible for ensuring that prescribers who are registered with DEA pursuant to the Drug Addiction Treatment Act of 2000 (DATA 2000) comply with the patient limits that they are waivered to treat, recordkeeping and security, under the Controlled Substances Act
- Note: These inspections are low-key and not intended to be punitive



Buprenorphine Prescription Requirements: 21 CFR

- Full identifying information for the patient, including their name and address
- Medication name, strength, dosage form, and quantity; and directions for use
- Prescriptions for buprenorphine and/or buprenorphine/naloxone must be dated as of, and signed on, the day they are issued
- Both the provider's regular DEA registration number and the provider's DATA 2000 identification number (which begins with the prefix X) must be included on the prescription

Office-Based Buprenorphine Storage and Dispensation

- In-office buprenorphine dispensing is still a legal practice under DATA 2000
- Waivered providers must provide medication security and storage if dispensing buprenorphine onsite
- The following records must be maintained for 2 years (though some states may require a longer duration):
 - Inventories, including amounts of buprenorphine received and amounts dispensed
 - Reports of theft or loss
 - Destruction of controlled drugs
 - Records of dispensing

Objectives

1. List topics to address during follow-up MAT visits
2. Describe key elements of clinical documentation
3. Describe key elements of record-keeping practices
4. **Describe strategies to support Recovery**

Supporting Recovery

- General Approach:
 - Use good prescribing and monitoring techniques to reduce diversion
 - Maintain therapeutic stance:
 - Patient-centered
 - Patient-directed
 - Consideration for patient's autonomy
 - Focus on increasing strengths
 - Encourage use of community resources

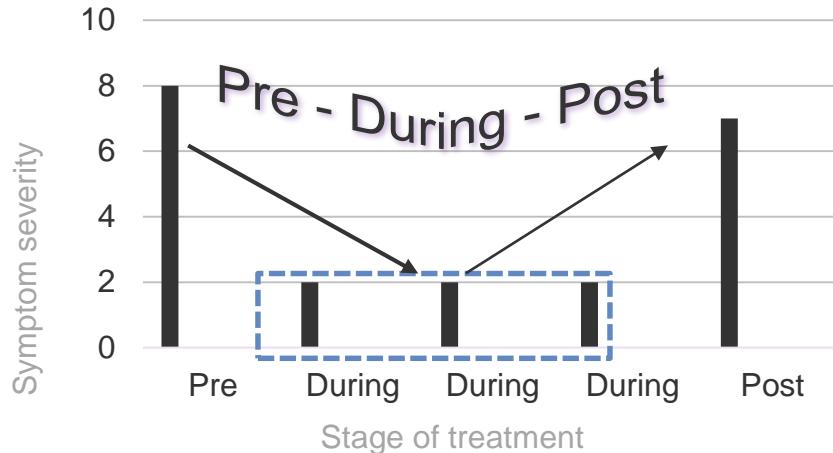


Supporting Recovery

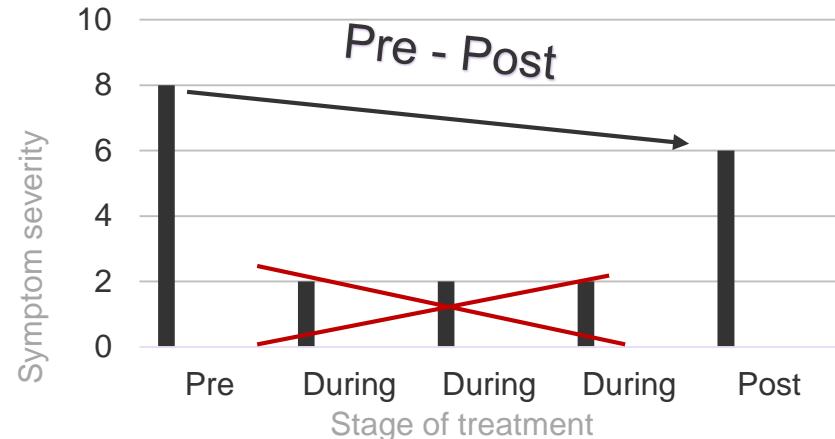
- Limits and Contingencies:
 - Accountability: Clearly define examples and consequences
 - Alternative options:
 - Increased frequency of visits
 - Change in testing format
 - Pill counts
 - Change in dosing
 - Referral to higher level of care



Addiction as a Chronic Condition



Hypertension, Diabetes, Asthma

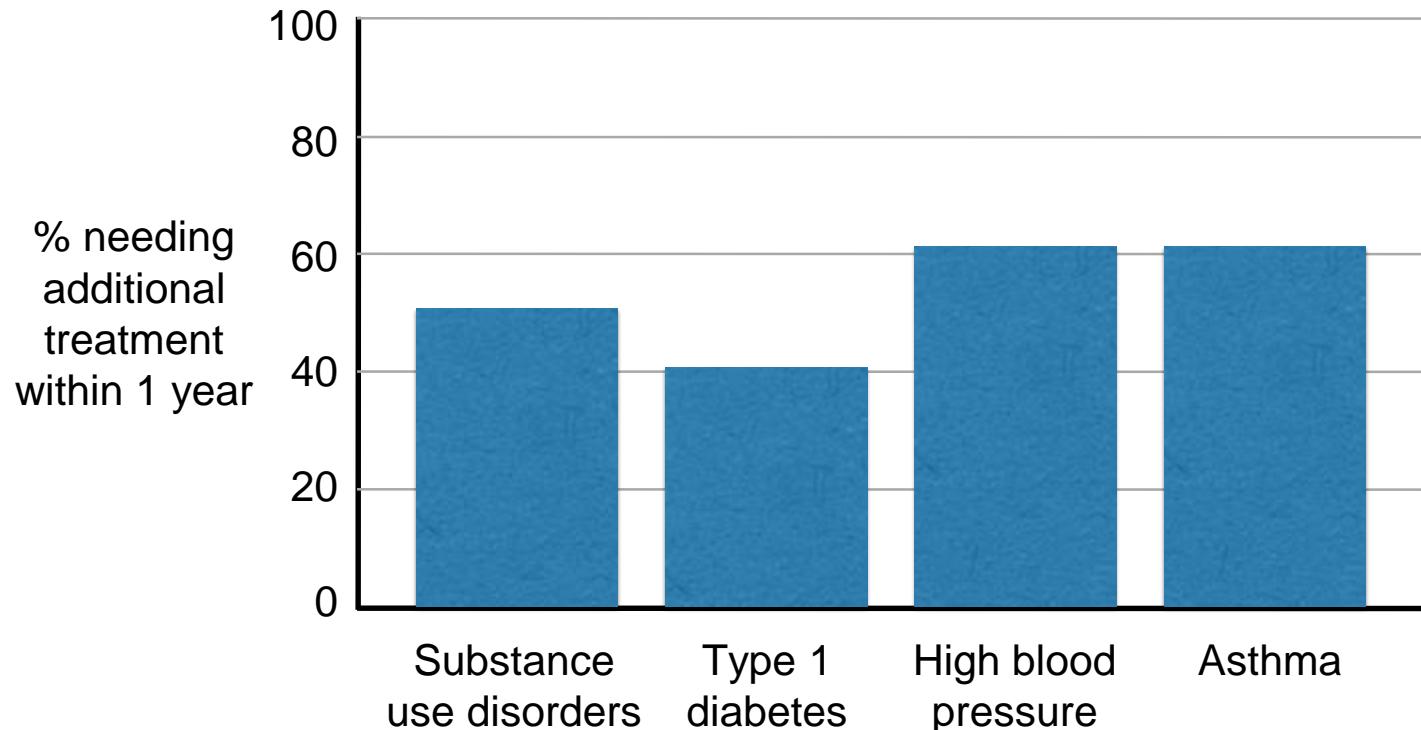


Substance Use Disorders

- Similar to many chronic diseases, the interventions currently available for substance use disorders will not necessarily correct the essence of the problem, but will:
 - Reduce the number and severity of the symptoms
 - Improve personal function
- As long as the patient participates in the interventions

Treatment Adherence Comparison

Treatment adherence is similar to other chronic conditions



Summary

- Important to have clear clinic policies to address various situations relevant to Office Based Opioid Treatment (OBOT).
- Clear guidelines are key to ensuring the patient is receiving treatment at the appropriate level of care.
- There is a variability in specifics, good documentation and record keeping are key to delivery of substance use treatment.
- A record of clinical decision making regarding choice of Medication Assisted Treatment (MAT), dosing, rationale for drug screening and level of care is recommended.

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Appendix_1: Privacy Protections

- 2004: Code of Federal Regulations Title 42 Part 2 (42 CFR Part 2)
 - Confidentiality of alcohol and drug addiction treatment records maintained by practices/programs is protected by federal law and regulations
 - Generally, the practice/program may not say to a person outside the practice/program that a patient attends the practice/program, or disclose any information identifying a patient having an alcohol or substance use disorder unless:
 - The patient consents in writing;
 - The disclosure is allowed by a court order, or
 - The disclosure is made to medical personnel in a medical emergency or to qualified personnel for research, audit, or practice/program evaluation
 - Federal laws and regulations do not protect any information about suspected child abuse or neglect from being reported under state law to appropriate state or local authorities

PCSS Mentoring Program

- PCSS Mentor Program is designed to offer general information to clinicians about evidence-based clinical practices in prescribing medications for opioid addiction
- PCSS Mentors are a national network of providers with expertise in **addictions, pain, evidence-based treatment including medication-assisted treatment**
- 3-tiered approach allows every mentor/mentee relationship to be unique and catered to the specific needs of the mentee
- No cost

For more information visit:

pcssNOW.org/clinical-coaching

PCSS Discussion Forum

Have a clinical question?



A teal circular icon containing two white quotation marks (‘’), positioned at the top center of the slide.

Ask a Colleague

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PCSS is a collaborative effort led by the American Academy of Addiction Psychiatry (AAAP) in partnership with:

American Academy of Family Physicians	American Psychiatric Association
American Academy of Neurology	American Society of Addiction Medicine
Addiction Technology Transfer Center	American Society of Pain Management Nursing
American Academy of Pain Medicine	Association for Medical Education and Research in Substance Abuse
American Academy of Pediatrics	International Nurses Society on Addictions
American College of Emergency Physicians	American Psychiatric Nurses Association
American College of Physicians	National Association of Community Health Centers
American Dental Association	National Association of Drug Court Professionals
American Medical Association	Southeastern Consortium for Substance Abuse Training
American Osteopathic Academy of Addiction Medicine	