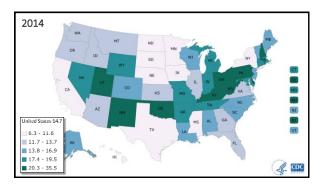
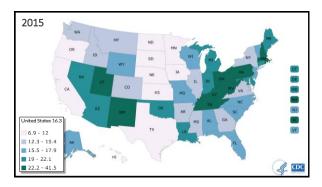
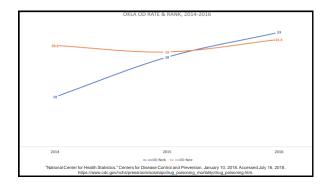
MAT: The Leader in Assists

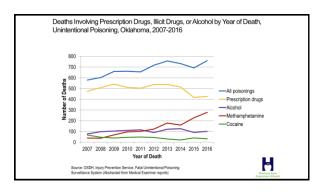
Opioid Abuse Treatment Options Layne Subera, DO, MA, FACOFP











Background S	Statisitics
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- \bullet ~2.5 million people in the United States have opioid addiction
- Less than 50% have access to Medication-Assisted Treatment (MAT)
- 2.2% of US physicians have obtained waivers (2014)
- The average state has 8 waivered physicians per 100,000 residents.
- 53.4% of US counties do not have a single prescriber of MAT
- Average number of patients for certified prescribers is 26.
- 25% of physicians with a waiver never prescribe.

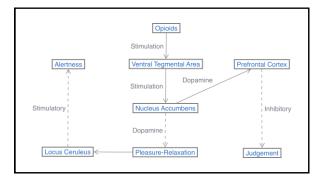
Dunlap, Beth, and Adam S. Cifu. "Clinical Management of Opioid Use Disorder." *Jama* 316, no. 3 (2016): 338. doi:10.1001/jama.2016.9795.

Lecture Overview

- What is Medication Assisted Treatment?
- Recognizing Problems
 - Opioid Use Disorder
 - Dependence
- Starting Medication Assisted Treatment
- Counseling & Support Options
- Special Populations
- Emerging Treatment Options

What is Medication-assisted Treatment?

	1
MAT Defined	
Medication-assisted treatment (MAT) is the use of medications with	
counseling and behavioral therapies to treat substance use disorders and prevent opioid overdose.	
"Medication and Counseling Treatment." SAMHSA - Substance Abuse and Mental Health Services	
Administration. September 28, 2015. Accessed July 21, 2018. https://www.samhsa.gov/medication- assisted-treatment/treatment.	
Drug Addiction Treatment Act of 2000	
 Permits physicians who meet certain qualifications to treat opioid addiction with Schedule III, IV, and V narcotic medications that have 	
been specifically approved by the Food and Drug Administration for that indication. • "Waiver"	
• 30, 100, 275 (CARA Act of 2016)	
DEA. "Notices - 2006." - Dispensing Controlled Substances for the Treatment of Pain. September 6, 2006.	
Accessed June 09, 2016. http://www.deadiversion.usdoj.gov/fed_regs/notices/2006/fr09062.htm	<u> </u>
MAT vs Tapering & Withdrawal	
Majority of patients relapse with withdrawal management alone including with tapering	
 Including residential detoxification One 2010 prospective cohort study of 109 patients 	
91% of patients relapsed 59% relapsing in the first week	
l	



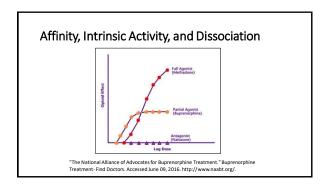
Attenuation and Addiction

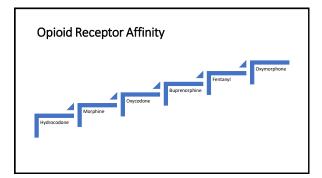
- With continued opioid use, the dopaminergic effect decreases and increased consumption is needed to maintain a "normal" state.
- Recreational users are motivated by positive reinforcement.
 - Excess dopamine activity.
- Addicted users are motivated by negative reinforcement.
 - Deficient dopamine activity.

How Buprenorphine Works

- Buprenorphine is an opioid partial mu-agonist.
 - Weaker than full agonists.
 - Morphine, methadone, heroin, etc.
 - Higher binding affinity than many opioids.
- Opioid effects level off.
 - Euphoria and respiratory depression.
 - "Ceiling effect"
 - Lowers the risk of misuse and side effects.

https://www.samhsa.gov/medication-assisted-treatment/treatment/buprenorphine





Treatment Challenges

- It is not a "cure".
- \bullet It is treating opioid addiction with an opioid.
- $\bullet \ \mbox{Withdrawal occurs upon discontinuation}.$
- Coverage for the counseling component can be a challenge.
- Abuse and diversion can happen.

Side Effects of Buprenorphine/naloxone
• Headaches
Depression
 Nausea, vomiting, and constipation
Muscle aches and cramps
Cravings
Inability to sleep
Distress and irritability
• Fever

Buprenorphine Misuse and Abuse

- Buprenorphine mono can be misused.
 - Nasal route, smoking.
- Buprenorphine/naloxone decreases misuse potential.
 - Via the sublingual route, buprenorphine's opioid effects dominate.
 - Via the nasal or IV route: naloxone's antagonist effect dominates.
 Can precipitate opioid withdrawals.

https://www.samhsa.gov/medication-assisted-treatment/treatment/buprenorphine

Buprenorphine vs. Methadone Abuse

- Nonmedical use of buprenorphine is associated with better outcomes versus methadone.
 - Hospitalization rates (32.2% vs. 67.4%),
 - Admission to intensive care units (15% vs. 50%)

 - Mortality (0% vs. 1.6%)
 Changing substance abuse patterns may confound
 Risk correlated with routes of use

Lee S, Klein-Schwartz W, Welsh C, et al. Medical outcomes associated with nonmedical use of methadone and buprenorphine. J Emerg Med. 2013;45:199–205.

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Buprenorphine Diversion	
 When diverted, buprenorphine/naloxone is likely used to manage withdrawal symptoms. 	
The lack of access to MAT has been associated with use of diverted	
buprenorphine/naloxone and that expansion of access may limit	
diversion.	
Lofwall MR. Havens JR. Inability to access buprenorphine treatment as a risk factor	
for using diverted buprenorphine. Drug Alcohol Depend. 2012;126(3):379-383.	
	1
Preventing Buprenorphine Diversion	
 The 3 most common strategies used by buprenorphine prescribers¹: Limit 30-day prescriptions to compliant patients (72.4%) 	
 Prescribe only the lowest effective daily dose (60.6%) 	
 Require regular urine screening or other drug screening (59.3%) 	
¹ Yang A, Arfken CL, Johanson CE. Steps physicians report taking to reduce diversion of	
buprenorphine. Am J Addict. 2013;22:184–187.	
	1

Recognizing Problems

	-
Confronting Biases and Logical Fallacies	
Continuation Bias	
Sunk Cost Fallacy Social Bias	
Uncertainty	
	1
Features of Opioid Withdrawal Syndrome	
Elevated pulse. Anxiety or Irritability.	
 Sweating. Bone or Joint Aches. Restlessness. Yawning. 	
 Tremors. Runny nose or Tearing. Mydriasis. Goose Flesh. 	
• GI Upset.	
	1
Prescription Opioid Misuse	
Prescription misuse is usually the first sign of pathology.	
40% incidence when non-cancer pain is treated with opioids.	
lves T.J., Chelminski P.R., Hammett-Stabler C.A., et al: Predictors of opioid misuse in	
patients with chronic pain: a prospective cohort study. BMC Health Serv Res 2006; 6: pp. 46	

Risk Factors	for Pred	dicting Pre	escription	Misuse
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- Current misuse predicts future misuse.
- Past or current history of an addiction disorder to any substance.
- Negative affective disorders.
 - Major Depression, Anxiety, Personality Disorders.
- Previous or current history of sexual or physical abuse.
- Family history of substance use disorders.
- History of illegal activities.

Aberrant Drug Related Behaviors

- Aberrant Behavior is a patient behavior that breaches of mutually established medical boundaries.
- · Categories:
 - Loss of control over use.
 - Compulsive use.
 - Continued use despite harm.

Portenoy, Russell K, **Opioid therapy for chronic nonmalignant pain: a review of the critical issues**. Journal of Pain and Symptom Management, Volume 11, Issue 4, 203 – 217 doi: 10.1016/0885-3924(95)00187-5

Behaviors Suggestive of Substance Abuse

- \bullet Frequent intoxication leading to failure to fulfill major role obligations.
- Recurrent use in hazardous situations (e.g., drunk driving).
- Recurrent substance-related legal problems.
- Continued use despite interpersonal problems related to use.
- Persistent desire to cut down.
- "Does it interfere with love, work or play?"

Harrington, Michelle. "Substance Use Disorders." Accessed August 17, 2016. http://www.samhsa.gov/disorders/substance-use.

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Δ	. 1) 1	₹KC	N/IOro	Predictive	Ot Ad	diction

- Prescription forgery.
 Stealing or "borrowing" drugs from others.
 Injecting oral formulations.

- Obtaining prescription drugs from nonmedical sources.
 Concurrent abuse of alcohol or illicit drugs.
 Multiple dose escalations or other noncompliance despite warnings.
- Multiple upise desirations of unernincompliance usagine wainings.
 Multiple episodes of prescription "loss".
 Repeatedly seeking prescriptions from other clinicians or from emergency departments (EDs) without informing the prescriptor of after a warning to desist.
- Evidence of deterioration in the ability to function at work, in the family, or socially that appears to be related to use of the drug.

 Repeated resistance to changes in therapy despite clear evidence of adverse physical or psychological effects from the drug.
- Selling prescription drugs.

Portenoy, Russell K, Opioid therapy for chronic nonmalignant pain: a review of the critical issues. Journal of Pain and Symptom Management, Volume 11, Issue 4, 203 – 217 doi: 10.1016/0885-3924(95)00187-5

Screening/Risk Tools for Substance Abuse

- Opioid Risk Tool (ORT): Categorizes patient risk for aberrancy.
 - Low (score of 3 or lower)
 - Moderate (score of 4 to 7)
 - High (score of 8 or higher)
- Current Opioid Misuse Measure (COMM): Can identify aberrant drugrelated behavior in patients who are $\underline{\text{currently}}$ taking opioids.

Social History:	DRT Hote space	1
Do you have a Family History of Alcohol abuse?	(lex No	2
Do you have a Family History of Street drug abuse?	rey for	
Do you have a Family History of Prescription drug abuse?	Trey No	4
Do you have a Personal History of Alcohol abuse?	Yes No	3
Do you have a Personal History of Street drug abuse?	Cres No	4
Do you have a Personal History of Prescription drug abuse?	Yes No	5
is your age between 16 and 45 years old?	Cres No	1
Do you have a Personal History of Preadolescent Sexual Abuse?	You Hay	3
Do you have a History of ADD, OCD, Bipolar or Schlzophrenia?	Yes Be	2
Do you have a Personal History of Depression?	Yes No	1
Constitution Dis Ferge Chille Fedguer Weight loss a ear/Threet Dis Constitution of the Congestion O OK Chest pash. Chest passure Forcebu- erge. OK Cough Cough up blood Cough up m	nainage Sixus pain Hearing Loss	
	es Constipution Blood In stool Dark stools	
Gental Strougy OK Burning Frequency Blood in urine 1	Nocturnal urination Pregnancy Erectile problem	
Blood & Glands OK Anemia Easy bruising Easy bleeding Lymph node enlargement		
lyes OK Double vision Mattering Hohiness B	Bluming Loss of vision	
formories (Sur) OK Excess thirst Excess urination Cold	or heat intolerance Menetrual problems	
tomes & Musicle OK Joint pain Joint stiffness Joint swellin	ng Muscle sches Gout Back pain Ankle swellin	9
denvis (CA) OK Headache Dizziness Numbress Welkhess Fainting Seizures Tremors		
Dergine CK Medicine allergy Dye allergy Seasonal allergy Food allergy Latex allergy		
Min 100 CK Rushes Lumps Dryness Change in makes Change in pigment or color		
Company Com Angel	ses -Memory disturbance - Suicidal thinking	_

Opioid Use Disorder (DSM-V	Slide 1
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A maladaptive pattern of use leading to significant impairment or distress, as manifested by at least two of the following occurring within a 12-month period:

- . The opioid is often taken in larger amounts or over a longer period than intended.
- There is a persistent desire or unsuccessful efforts to cut down or control use.
- A great deal of time is spent on activities necessary to obtain, use, or recover from the
- Recurrent use results in failure to fulfill major role obligations.
- Use is continued despite persistent or recurrent social or interpersonal problems caused

Opioid Use Disorder (DSM-V) Slide 2

- $\bullet \ \ \text{Important} \ \underline{\text{social, occupational, or recreational activities are } \underline{\text{reduced}} \ \underline{\text{because of use.}}$
- Use occurs in situations in which it is physically hazardous.
- Use is continued despite knowledge of a persistent or recurrent physical or psychological $\underline{\text{problem likely to have been caused or exacerbated}}$ by the opioid.
- Tolerance is present (not counted for those taking medications under medical supervision).
- Withdrawal occurs (not counted for those taking medications under medical supervision).
- There is craving or a strong desire or urge to use the opioid.

ICD-10d: 3 Pathologic Syndromes

- Spided introduction

 Feliotres of psychocutive substance as sufficient dose levels, signs and symptoms of intoxication, and cannot be accounted for by a medical disorder unrelated to substance are disorder.

 There must be opticizable behavior and one of sign of intoxication.

 Psychological dependence syndrome

 and an advantage of the substance of the substance

- resistant updatuse using the unative training and institute the state of the state.

 There must be clear evidence of recent cessation or reduction of opinid use after repeated, and usually prolonged and/or high-dose, use of that substance.
- that adulation.

 Symptoms and igent compatible with known feature of withblashed data. Any 3 of the features, in purpose action for young and the symptoms of the symptoms and igent compatible with known feature of withblashed data. Any 3 of the features given must be presented to oppose with the symptoms and igent contained and the symptoms and igent contained and the symptoms and igent cannot be accounted for by a medical disorder unrelated to positive due disorder.

World Health Organization. The ICD-10 classification of mental and behavioural disorders: clinical desc and diagnostic guidelines. 1992. http://www.who.int/ (last accessed 13 September 2017).

Opioid Use Disorder (DSM-V) Severity	
 Mild: Presence of 2–3 symptoms. F11.10 Moderate: Presence of 4–5 symptoms. F11.20 	
Severe: Presence of 6 or more symptoms. F11.20	
	1
Patterns Suggestive of Addiction (4 C's)	
Preoccupation with use because of Craving	
Impaired Control	
Compulsive use Continued use in spite of adverse Consequences	
Key Points for Detecting Opioid Use Disorder	
Physical dependence occurs when opioid use is prolonged.	
 Opioid misuse is usually the first sign of pathology. Failing social obligations suggest addiction. 	
 Craving is the hallmark of addiction. Use motivated by negative reinforcement indicates addiction. 	
People with substance use problems need good care, too.	

Treatment Phases - Selection Phase - Induction		-
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Develop expectations:	 Reviewed other treatment options. Participation. 	
• Ex: Stabilize x 4-6 months then wean x 4-6 months.	Develop expectations:	
	• Ex: Stabilize x 4-6 months then wean x 4-6 months.	

	-
Buprenorphine Precautions	
Avoid Polypharmacy.	
Avoid co-sedation. Alcohol, sedatives, tranquilizers.	
Respiratory depression.	
Consider liver-related disease and hepatotoxicity.	
	J
	7
The Induction Phase	
The muucuon Fhase	
 Monitored initiation of buprenorphine treatment. Approved buprenorphine products only. 	
Moderate withdrawal.	
 Short acting opioids: 12 to 24 hours. Long-acting opioids: 48 to 72 hours. 	
 Look for physical signs to avoid precipitating an acute withdrawal episode. 	
	ــــــــــــــــــــــــــــــــــــــ
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Induction Verifies Medical Necessity	

Lofwall MR, Wunsch MJ, Nuzzo PA, et al. Efficacy of continuing medical education to reduce the risk of buprenorphine diversion. J Subst Abuse Treat. 2011;41: 321–329.

50% of doctors routinely induct patients while in opioid withdrawal.50% start while displaying no symptoms of active opioid withdrawal.





The Stabilization Phase

- Duration: First 3 months.
- After successful induction.
- Dose titration to suppress craving.
- Monitor for adverse events and side effects.
- · Start develop social support and skills.
- "Have you been offered drugs since our last visit? What happened?"

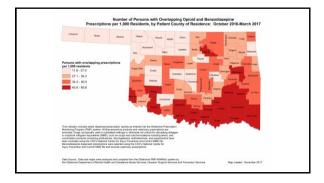
Counseling & Support Options

- Family buy-in
- Self-efficiency is the goal.
 - "Low levels of self-efficacy (confidence that one can self-manage symptoms) are linked to higher symptom burdens and increased substance use."¹
- Referrals to agencies and programs
- Psychologists
- LADCs
- NA/AA

¹Addict Behav. 2018 Feb;77:225-231. doi: 10.1016/j.addbeh.2017.10.012. Epub 2017 Oct 18.

Narcotics Anonymous • Free • Common • 12-step • Builds social connections • Drug-free approach • Does not endorse medication-assisted treatment	
The Maintenance Phase Duration: Different to each patient and could be indefinite. Patient is stable on a steady dose of buprenorphine. Continue building skills and repairing relationships. "Tell me something good that's happened since the last visit?" "What should our plan be for the next six months?"	
The Discontinuation Phase The FDA approved treatment duration is open ended. When to wean: When patient is ready. When social circumstances have stabilized. When bad actors are no longer present. Slow, supportive titration. Plateaus can happen.	

Special Populations	-
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Special Populations	
Dual-diagnosis patients.	
Cardiac patients.	
Pregnant women.	
Methadone patients.	
• Prisoners	
PDA U.S. Food and Drug Administration Drug Safety Communications Drug Safety Communications	
FDA urges caution about withholding opioid addiction medications	
from patients taking benzodiazepines or CNS depressants: careful	
medication management can reduce risks	
This provides updated information to the FDA Drug Safety Communication: FDA warns about serious risks and death when combining opioid pain or cough medicines with	
benzodiazepines; requires its strongest warning issued on August 31, 2016.	
Safety Announcement	-
[9-20-2017] Based on our additional review, the U.S. Food and Drug Administration	
(FDA) is advising that the opioid addiction medications 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	



Cardiovascular Patients

- Opioid withdrawal is associated with relative surge in sympathomimetic tone.
- Can precipitate heart failure in susceptible persons.

Kosten, Thomas, and Tony George. "The Neurobiology of Opioid Dependence: Implications for Treatment." Science & Practice Perspectives SPP 1, no. 1 (2002): 13-20. doi:10.1151/spp021113.

Pregnant or Breastfeeding Women

- \bullet Methadone preferred for pregnant women opioid dependency.
- Buprenorphine mono when buprenorphine is necessary.
- Pregnancy Category C.

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- Taper to ≤30 mg/day if possible (normal transfer).
 - Through their methadone provider.
 - Attempt 72 hours abstinence before induction.
- Transfers are possible between a >30-60 mg/day.
 - "High-dose transfer".
- Transfers from >60 mg/day are not recommended.

Dosing Guide For Optimal Management of Opioid Dependence. Accessed August 2, 2016. http://www.naabt.org/documents/Suboxone_Dosing_guide.pdf.

Prisoners and Detainees

- Jails are not required to continue medication-assisted treatment.
- Unsupervised, drug-free detoxification is dangerous.
- "Prisoners are 40 times more likely to overdose in the first two weeks after release than the average citizen."
- 11 times more likely to overdose within the first year.

Ranapurwala, Shabbar I., Meghan E. Shanahan, Apostolos A. Alexandridis, Scott K. Proescholdbell, Rebecca B. Naumann, Daniel Edwards, and Stephen W. Marshall. "Opioid Overdose Mortality Among Former North Carolina Inmates: 2000–2015. "American Journal of Public Health, July 19, 2018, E1-E7. Accessed August 4, 2018. doi:10.2105/ajph.2018.304514.

Emerging Options

Depot Buprenorphine/Naloxone
The first once-monthly injectable hunrenorphin

- Moderate-to-severe opioid use disorder (OUD) in adult patients who have initiated treatment with a transmucosal buprenorphine.
- Must be stable on SL dosing for a minimum of seven days.

Commissioner, Office Of the. "Press Announcements - FDA Approves First Once-monthly Buprenorphine Injection, a Medication-assisted Treatment Option for Opioid Use Disorder." U S Food and Drug Administration Home Page. November 30, 2017. Accessed July 21, 2018.

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- Mitigation of withdrawal symptoms to facilitate abrupt discontinuation of opioids in adults.
- May not completely prevent withdrawal symptoms
- Approved for treatment for up to 14 days.
- Lofexidine is not a treatment for opioid use disorder (OUD)
- Can be part of the treatment plan for managing OUD.

Commissioner, Office Of the. "Press Announcements - FDA Approves the First Non-opioid Treatment for Management of Opioid Withdrawal Symptoms in Adults." U S Food and Drug Administration Home Page. May 16, 2018. Accessed July 21, 2019.

"Make it a practice to judge persons and things in the most favorable light at all times and under all circumstances."

-St. Vincent de Paul