# Addiction and HIV in 2019: What You Need to Know to Care for Your Patients

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## Learning Objectives

After attending this presentation, learners will be able to:

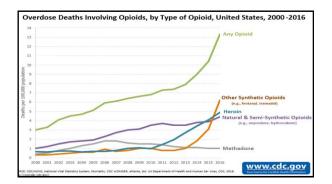
- Describe opioid use disorder
- Initiate treatment for opioid use disorders
- Describe the implications of opioid use disorders in people living with HIV infection
- Describe stimulant use disorders and treatments for these disorders

According to CDC data, how many people died of opioid overdose in the United States in 2017?

1. 5,000

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- 2. 10,000
- 3. 20,000
- 4. 30,000
- 5. Over 40,000



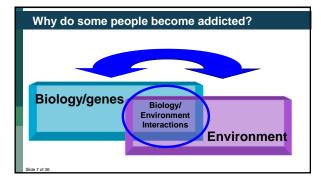

# Why do people take drugs?

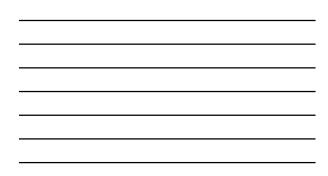
To feel good To have novel: feelings sensations experiences AND to share them

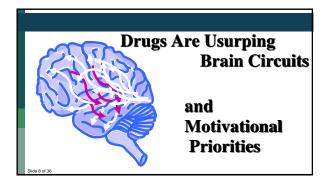


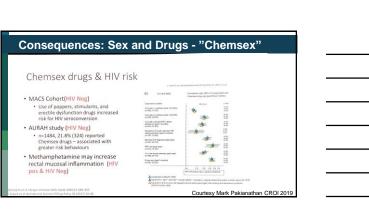
To feel better To lessen: anxiety worries fears depression hopelessness

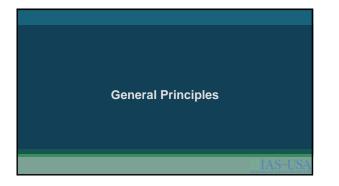
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### **General Principle**

- Treat all patients with dignity and respect
- People who use drugs are people
- Malingering, manipulation, etc. are all survival mechanisms people who use drugs use for survival. Don't take it personally.

### **Practical Initial Step: Screening**

1. Screen patients for substance use disorders using standardized questions:

- How many times in the past year have you had 5 or more standard drinks in a day?
- How many times in the past year have you used an illegal drug or a prescription medication for nonmedical reasons?

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### Practical Next Step: Think about systems

- Provision of low threshold, rapid access, appropriately dosed treatment (e.g., buprenorphine, methadone, or other treatments)
- Culturally appropriate counseling for addiction [can be simple (NA) to more complex (CBT)]

### **Practical Steps: Treat everyone**

Treatment of the medical issues associated with addiction (e.g., HIV, hepatitis B/C, and Tuberculosis)

- There is NO data to support denying or waiting to start patients on ART or any other treatment.
- Prescribe naloxone and consider becoming a buprenorphine provider
- Review guidelines on the treatment of chronic pain and re-evaluate how you prescribe opioids

#### Case 1

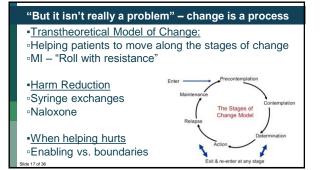
 You inherit a new patient: A 45 year old male comes in for his refill of oxycodone of 30 mg tablets, two tablets every 6 hours for a total of 240 tablets for the month. You notice there hasn't been a urine toxicology in 5 years, but notice that there have been a few recent Emergency Department visits for methamphetamine intoxication. The patient today is agitated, struggling to sit still, and wondering why the refill is taking so long....

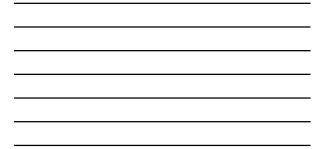
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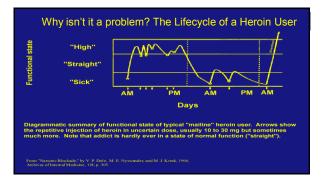
### Your next steps:

- 1. Curse the prior provider who left you a mess
- 2. Give the refill and find a way never to see the patient again
- 3. Call social work (or anyone) to try and diffuse the situation and get the patient into treatment
- 4. Talk with the patient about the ED visits and methamphetamine use to gauge interest in treatment, and refill the medication
- 5. #4 but do not refill the medication

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# It's Friday at 4PM ...

 30 year old comes into clinic and, through much creative and interesting conversations, you conclude that the oxycodone you were giving for back pain is not in the urine toxicology, but morphine is.....

### Your next step:

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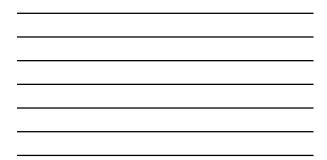
- 1. Refuse to refill the medication and call someone else to deal with the upset patient
- 2. Agree with the patient that it was a one time thing and give all or some of the oxycodone
- 3. Discuss treatment for opioids and start buprenorphine
- 4. Discuss treatment for opioids and refer to methadone
- 5. Discuss treatment for opioids and start naltrexone

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## Treatment

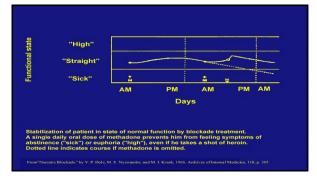
- Pharmacological Treatment
- · Buprenorphine, Methadone, Naltrexone
- <u>Behavioral Treatment (Therapy)</u>
- Motivation Interviewing getting you motivated to do treatment
- Cognitive Behavioral Therapy getting you to think differently about drug use

Medication	n: BUP and	l mu-opioid	receptors	
Binding Potential (Bmax/Kd)				)
4 -	Bup 00 mg	8	88 <b>e</b>	
	Bup 02 mg	8	8	
0 -	Bup 16 mg			
Slide 23 of 36 April 8, 2019	Bup 32 mg			Slide Courtesy of Laura McNicholas, MD, PhD

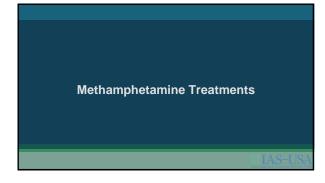


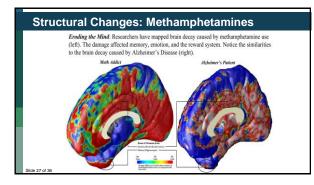
Medications to treat opioid use disorder	
• <u>Methadone</u> Onlv in OTP	
Efficacious, best retention	

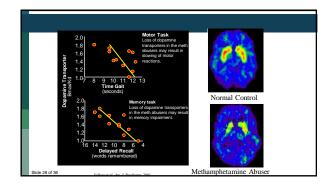
Efficacious, best retention
Buprenorphine
Office based
Efficacious, retention less than methadone
<u> Naltrexone</u>
Office based
Efficacious
Retention less than methadone & buprenorphine











# **HIV Specific Methamphetamines Effects**

- Neurocognitive effects and HIV may result in permanent neurobiological changes.
- Methamphetamine increases HIV replication and expression of CCR5 on macrophages and these events may contribute to the immunopathogenesis of HIV-infected methamphetamine users.
- Reduced neurocognitive performance can severely compromise HIV clinical care and is associated with HIV nonadherence and the development of HIV resistance.

### Treatment

- Pharmacological Treatment
- No pharmacological agents have demonstrated efficacy through Phase 2 trials. Morley, K. C., et al. (2017).
   "Pharmacotherapeutic agents in the treatment of methamphetamine dependence." <u>Expert Opin Investig</u> <u>Drugs</u> 26(5): 563-578.
- Behavioral Treatment (Therapy)
- Motivation Interviewing –motivated to do treatment
- Cognitive Behavioral Therapy getting you to think differently about drug use

### Medications that do not work

Aripiprazole Baclofen Buproprion Dextroamphetamine Gabapentin Mirtazapine Modafinil Ondansetron Risperidone Sertraline

#### Riluzole

- Riluzole is a glutamate regulator and effective in treatment of neuropsychiatric conditions.
- Double blind placebo controlled trial in men 18 to 65 to 50 mg riluzole (n=34) or placebo (n=54) twice daily for 12 weeks.
- Patients were excluded for serious medical conditions or neurologic disorders, comorbid psychiatric disorders other than methamphetamine dependence including other drugs of abuse

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### Riluzole cont'd

- RESULTS: Visit attendance went up and the number of positive methamphetamine urine test results was significantly lower in the riluzole arm.
- Patients in the riluzole arm experienced significantly greater improvement on all the craving, withdrawal, and depression measures regarding mean score changes from baseline to endpoint
- ISSUE: Small study, only men, needs larger study to validate.

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## Lisdexamfetamine forthcoming trial

- Agonist therapy has been tried with mixed results in the past.
- LDX used for ADHD and binge eating has potential as an agonist therapy for methamphetamine dependence, and possible benefits of reduced risk of aberrant use due to its novel formulation.
- RCT ongoing. TRIAL REGISTRATION NUMBER: ACTRN12617000657325

#### HIV, Pain and Addiction

Clinical Infectious Diseases

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2017 HIVMA of IDSA Clinical Practice Guideline for the Management of Chronic Pain in Patients Living With HIV R. Dwgles Droz.' Jexics Meric's Patie J. Lum.' Elesand Alexande: Amanda H. Corter, <sup>1</sup> Kehlen Foley.' Kete Lesand: <sup>1</sup>

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https://academic.oup.com/cid/article/65/10/e1/4157299

#### **Useful websites:**

- American Pain Society has resources available online: <u>http://www.americanpainsociety.org/resources/content/primary-care-practitioner.html</u>
- American Academy of Pain Medicine resources: <u>http://www.painmed.org/library/main.aspx</u>
- Providers Clinical Support System (PCSS) for MAT at <u>https://pcssnow.org/resources/clinical-tools/</u>
- Buprenorphine training: <u>https://www.samhsa.gov/medication-assisted-</u> treatment/training-resources/buprenorphine-physiciantraining

### **Questions?**

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