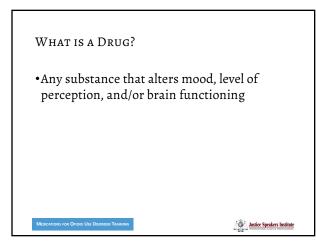
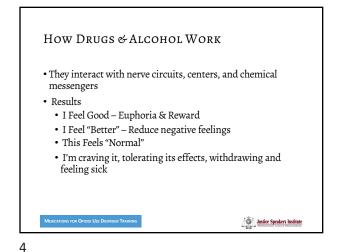


DR. WILLIAM MORRONE
Father & Recovery Advocate
Village Medicine & Failed Farmer
Toxicologist - UMKC
Deputy Medical Director BCHD
Chief Medical Examiner
Armed Forces Institute of Pathology
Public Health – Servant – Teacher
Crypto-Historian
Advocate Physician for social change

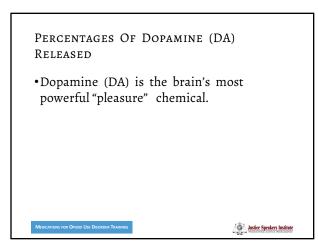
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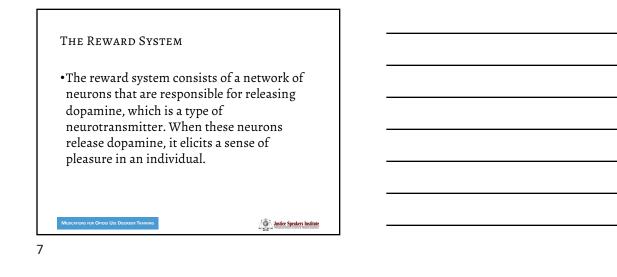


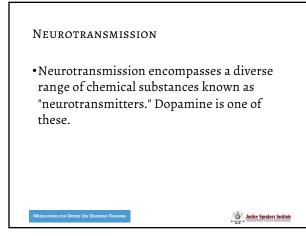




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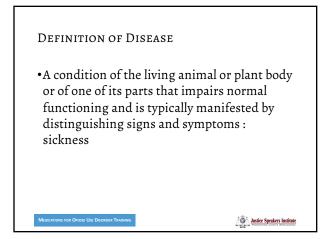
Neurotransmission

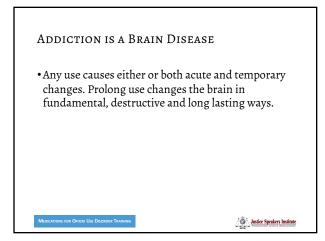
• Following the transmission of the signal to the adjacent neuron, dopamine is reabsorbed by the neuron from which it was initially released through the action of a specialized protein called the "dopamine transporter."

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Cocaine and neurotra	NSMISSION
• Drugs of abuse are able to in normal communication proc Cocaine, for example, blocks dopamine from the synapse dopamine transporters. As s results in a buildup of dopan turn, this causes a continuou receiving neurons, probably euphoria reported by cocaine	ess in the brain. the removal of by binding to the hown in this slide, this nine in the synapse. In is stimulation of responsible for the
MEDICATIONS FOR OPIOID USE DISORDER TRAINING	Justice Speakers Institute

Г





Addiction is a Brain D	ISEASE
•Addiction is a chronic di other chronic diseases s diabetes, cancer, and ca	uch as type II
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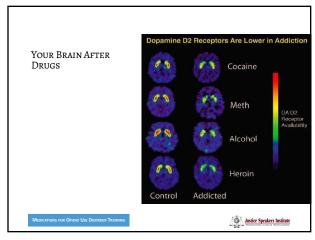
Relapse Happens	
Percentage of Patients Who Relapse TYPE I DIABETES 20 TO 50% DRUG ADDICTION 40 TO 60% HYPERTENSION	
50 TO 70%	
MEDICATIONS FOR OWDID USE DEGREER TAAINING	

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Your Brain On Drugs

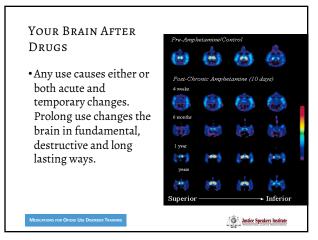
• Cocaine has other actions in the brain in addition to activating the brain's reward circuitry. Using brain imaging technologies, such as PET scans, scientists can see how cocaine actually affects brain function in people. PET allows scientists to see which areas of the brain are more or less active by measuring the amount of glucose that is used by different brain regions. Glucose is the main energy source for the brain. When brain regions are more active, they will use more glucose and when they are less active they will use less. The amount of glucose that is used by the brain can be measured with PET scans.

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OPIATES VERSUS OPIOIDS

OPIATES

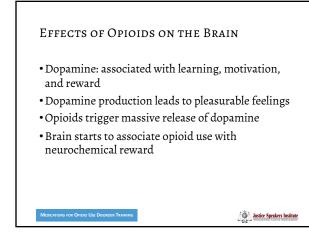
- Directly refined or extracted from opium poppy, "natural"
- Morphine, codeine, opium

OPIOID

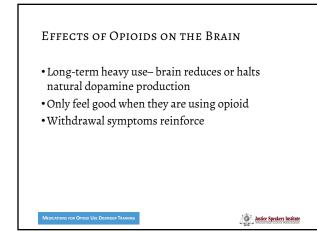
- Semisynthetic: heroin, hydrocodone, oxycodone
- Fully Synthetic: fentanyl, tramadol, methadone
- A class of drugs that act on specific receptors to neutralize or reduce pain

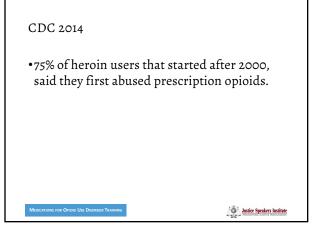
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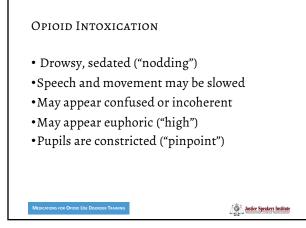
Opiates versus Opioids	
SIMILARITIES	
• Both are effective at treating pain	
• Both can lead to dependence, abuse, addiction, overdose, and death	
DIFFERENCES	
 Opioids are chemically altered, effects can be greatly magnified 	
• Some fentanyl analogues 10,000x stronger than morphine	
Mitrications for Onice Use Disorder Transme	
9	1

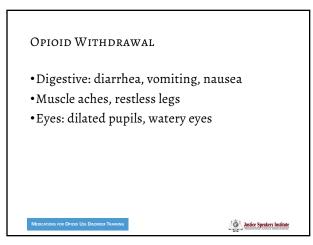


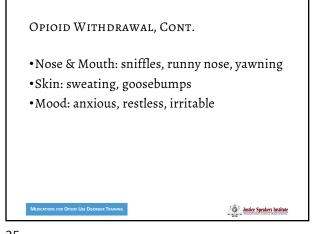
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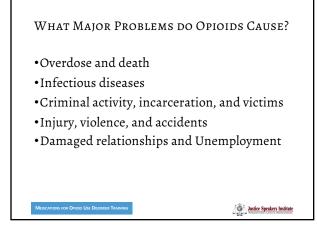


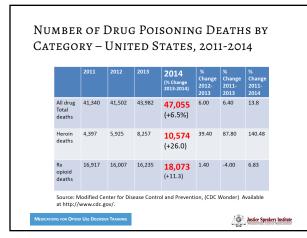


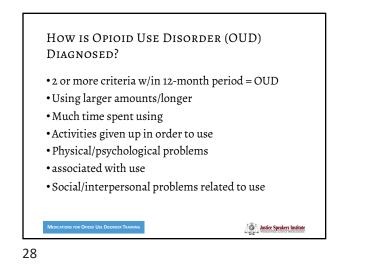




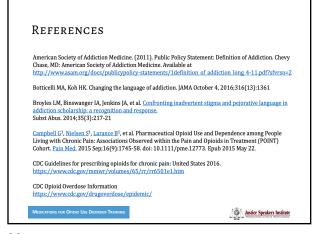


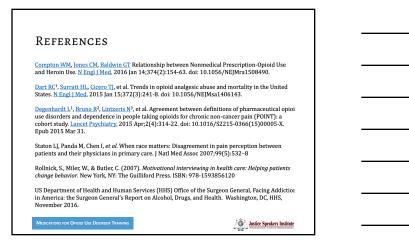






HOW IS OPIOID USE DISORDER (OUD) DIAGNOSED? CONT. •Neglected major role in order to use •Hazardous use •Repeated attempts to quit/control use •Withdrawal * •Tolerance * •Craving





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