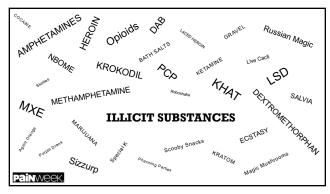
	_
Painweek.	
Thug Drugs	
Mark Garofoli, PharmD, MBA, BCGP, CPE	-
1	
	1
Faculty	
Mark Garofoli, PharmD, MBA, BCGP, CPE	
Experiential Learning Director & Clinical Assistant Professor, WVU School of Pharmacy	
Clinical Pain Management Pharmacist, WVU Medicine Integrative Pain Center	
Coordinator, WV Pain Management Expert Panel (SEMP Guidelines)     WV PDMP Advisory Panel Member	
CDC Grant Reviewer	-
Painweek.	
2	
Disclosures	
Advisory Board: DSI	
This presentation was not a part of the presenter's official duties at the WVU and does not represent the opinion of WVU	
тно резельний молни, а рать ин тик presenter в unitual outries at the WVU and does not represent the opinion of WVU	
Painweek,	
3	

#### **Learning Objectives**

- Recognize commonly abused substances across the globe.
- Classify commonly abused substances based on each substance's mechanism(s) of action.
- Explain how to provide guidance to the lay public on the anticipated effects of commonly abused substances.

Painweek.

4



5

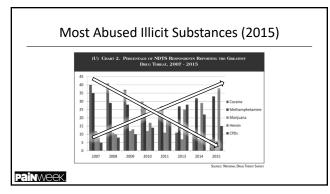
### What are illicit substances?

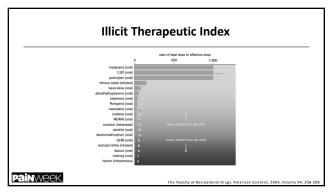
- 1. Schedule 1 Controlled Substances
- Illegal to make, sell, or use
   No accepted medical use, dangerous, & potential severe dependence
- ${\bf 2.} \quad {\bf Any \, Schedule \, Controlled \, Substance \, utilized \, for \, unintended \, people/uses}$

Laws are not uniform among states/countries

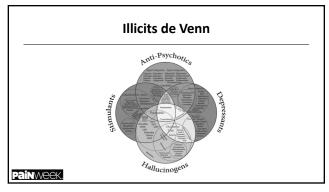
> Heroin is LEGAL in the UK, Portugal, Canada, etc.

 $\succ$  Marijuana is "LEGAL" in certain US states, yet Illegal on the Federal Level



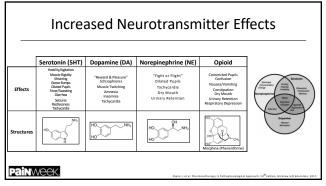




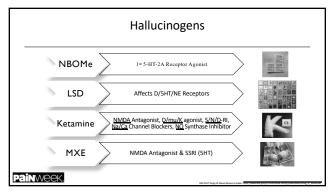


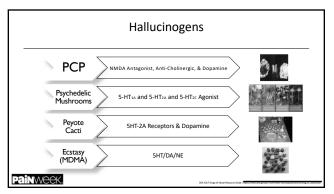
#### **Illicit Substances Overview Hallucinogens Stimulants** Opioid-Related Products • Heroin • LSD • Meth(amphetamine) • Laced Heroin Ketamine • KHAT • Krokodil • MXE Bath Salts & Gravel • Kratom • PCP • Salvia Psychedelic Mushrooms Cannabis Products • Dextromethorphan • Peyote Cacti Marijuana Plant Synthetic Marijuana • Loperamide • Ecstasy Marijuana Extracts Painweek.

11

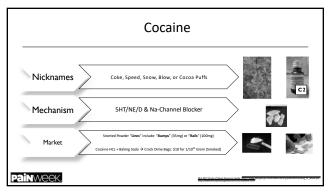


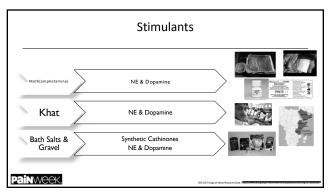


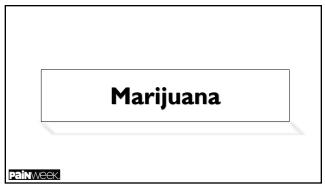


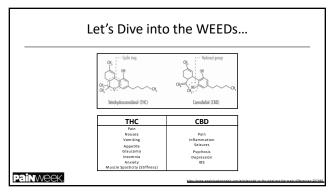


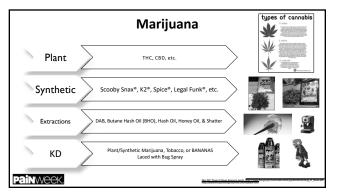












# Cannabinoids Adverse Effects & Interactions

Adverse Effect	~Odds Ratio
Disorientation	5
Dizziness	5
Dry Mouth	4
Euphoria	4
Drowsiness	4
Confusion	4

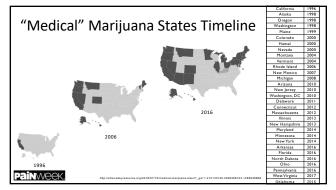
Cannabinoid	CYP-2C9	CYP-2C19	CYP-3A4
Δ9-THC	Х		Х
Δ8-THC	Х		Х
CBD		Х	Х
CBN	Х		х

Painwee

Hallucinations, Nausea, Vomiting, Diarrhea, &

> Colorado Department of Public Health and Environment. Allocitating Health Concerns Helated to Alberjuana Struct SM et al. Drug Metab Alex. 2014;6(1): 56–56. Volkova N. et al. Advance Health SERscot of Mariasana Use, NSAN, 2004;370: 2229-2227.

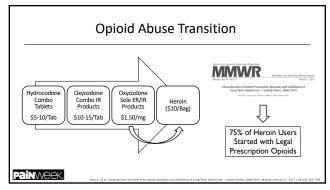
22

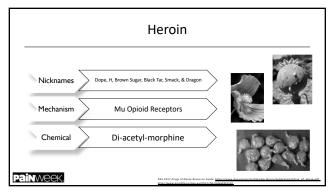


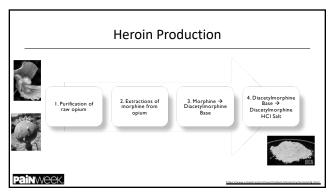
23

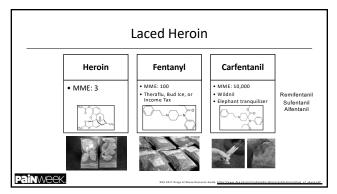
**Opiates/Opioids** 

**Dain**MAPEK

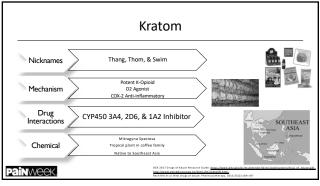


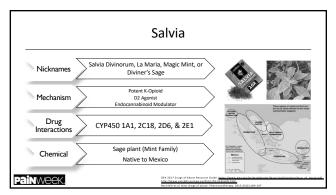


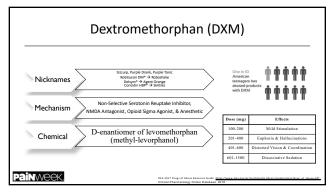


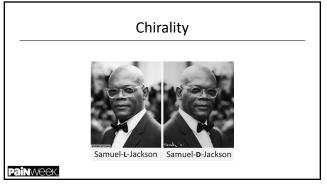


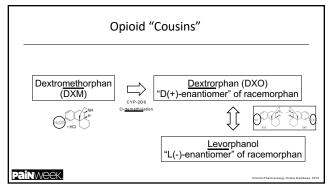


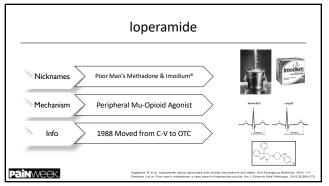












35

#### **Illicit Substances Overview** Opioid-Related Products Hallucinogens Stimulants • NBOME • Cocaine • Heroin • Meth(amphetamine) • Laced Heroin • KHAT • Krokodil Ketamine • MXE • Bath Salts & Gravel • Kratom • Salvia • Dextromethorphan • Psychedelic Mushrooms Cannabis Products • Peyote Cacti • Loperamide • Marijuana Plant • Ecstasy Synthetic Marijuana Marijuana Extracts Painweek.





## **Support Groups**

Alcoholics Anonymous (AA)

\*http://www.aa.org/

\*212-870-3400

Narcotics Anonymous (NA)

\*http://www.na.org/

\*1-818-773-9999

Nar Anon (Family & Friends)

\*www.nar-anon.org \*1-800-477-6291



Painweek.

40

#### Audience Question #1

Which of the following illicit substances is a hallucinogen?

- a) Bath Salts
- b) Khat
- c) Ketamine
- d) Carfentanyl



Painweek.

41

#### Audience Question #1 (ANSWER)

Which of the following illicit substances is a hallucinogen?

- a) Bath Salts
- b) Khat
- c) KETAMINE
- d) Carfentanyl



Painweek.

#### Audience Question #2

While stopped at a cross-walk on Jefferson St. in downtown Phoenix outside the Gypsy Bar at 2am, you notice a college student next to you leaning against a stop light post, shaking, with a red-toned skin color, grinding her teeth, and profusely sweating. If the student was to have ingested an illicit substance, which of the following would be the most likely of the listed substances.

- a) Kratom
- b) Scooby Snax
- c) Heroin
- d) Ecstasy



Painweek.

43

#### Audience Question #2 (ANSWER)

While stopped at a cross-walk on Jefferson St. in downtown Phoenix outside the Gypsy Bar at 2am, you notice a college student next to you leaning against a stop light post, shaking, with a red-toned skin color, grinding her teeth, and profusely sweating. If the student was to have ingested an illicit substance, which of the following would be the most likely of the listed substances.

- a) Kratom
- b) Scooby Snax
- c) Heroin
- d) ECSTASY



Painweek.

44

#### Audience Question #3

Which of the following are effects of various doses of dextromethorphan (i.e. DXM)?

- a) Cough Suppression
- b) Pain Suppression
- c) Hallucinations
- d) Euphoria
- e) All of the Above



**Pain**week

#### Audience Question #3 (ANSWER)

Which of the following are effects of various doses of dextromethorphan (i.e. DXM)?

- a) Cough Suppressionb) Pain Suppressionc) Hallucinations

- d) Euphoria
- e) ALL OF THE ABOVE



Painweek.

48

