

#### Disclosures

Dr. Hall provided expert opinion regarding the opioid overdose crisis to Lumanity and Emergent BioSolutions.

Dr. Teater has nothing to disclose.

# Objectives

- 1. Describe the basic neurobiology of addiction.
- 2. Apply this understanding of neurobiology to check personal biases toward individuals with addiction.
- 3. Identify addiction stigma and person-first language.
- 4. Recognize your role in reducing the harmful impact of addiction stigma on patient care.

# Outline

- Introduction to Addiction
- Addiction as a Brain Disease
- What is Stigma?
- Stigma as a Barrier to Care
- Stigmatizing Language
- Person-First Language
- Stigma in Mental Health
- Stigma in Addiction Care
- Conclusion



Introduction to Addiction

# What is Addiction?

 Addiction is a treatable, chronic medical disease involving complex interactions among brain circuits, genetics, the environment, and an individual's life experiences. People with addiction use substances or engage in behaviors that become compulsive and often continue despite harmful consequences. Prevention efforts and treatment approaches for addiction are generally as successful as those for other chronic diseases.

Definition of Addiction (asam.org)

# **Staggering National Statistics**

- Over 1,000,000 people have died of an overdose since 1999
  100,306 overdose deaths in 12 months ending 4/2021 (28.5%)
- 75,673 opioid related deaths in 72 months chaing 42021 (20.076 increase)
  75,673 opioid related deaths (75% of all OD deaths) in same time period
  21,088 in 2010

- Approximately 207 Americans die daily from an opioid overdose
   Exceeds deaths due to gun violence, MVAs, HIV, breast cancer
   US life expectancy declined for 3 consecutive years 2015-2017, down to 78.6 years

https://www.cdc.gov/doug-logical/data/ https://www.cdc.gov/ncha/preasroom/hcha\_preasa\_releases/2021/20211117.htm https://www.drugabuse.gov/drug-lopica/hende-statistics/overdose-death-rates

#### 2020 Death Rate due to Drug Overdoses by State

- 1. West Virginia: 81.4/100,000
  2. Kentucky: 49.2/100,000
  3. Delaware: 47.3/100,000

- 4. Ohio: 47.2/100,000 (5,204 overdoses)
   5. Tennessee: 45.6/100,000
- Ohio 3<sup>rd</sup> in total overdoses (behind CA, FL, but ahead of PA, NY, TX, IL)
   7<sup>th</sup> largest state

# **Ohio Overdose Data**

- In 2007, overdoses surpassed MVC's as leading cause of death injury, which has continued to this day
- 2020- 5,204 deaths; 14 deaths per day
  - 76% of all overdoses involved fentanyl
  - Black non-Hispanic males with highest rate
- May 2020 was deadliest month recorded ever, with 543 deaths (previous high was 484 in January 2017)

https://odh.o

# Years of Life Lost

https://jamanetwork.com/journals/jama networkopen/article-abstract/2764068

Hall 2020

- \*Assessment of Excess Mortality Associated With Drug Overdose in Ohio From 2009 to 2018\* published his year in JAMA Network Open found that drug overdose has become the third-leading cause of excess mortality in our state, just behind cancer and heart disease
- Over 1,000,000 Years of Life Lost to overdose 2009-2018 in Ohio
- The peak year for overdose deaths was 2017, during which Ohio experienced 187 006 overdose-related YLL, accounting 9.9% of all-cause excess mortality in Ohio and lowering the mean life span by 1.27 years

# **JAMA** Pediatrics

**Unintentional Drug Overdose Mortality in** Years of Life Lost Among Adolescents and Young People in the US From 2015 to 2019

#### O. Trent Hall, DO<sup>1</sup>; Candice Trimble, BA<sup>2</sup>; Stephanie Garcia, BA<sup>3</sup>; Parker Entrup<sup>3</sup>; Megan Deaner, MSW<sup>1</sup>; Julie Teater, MD<sup>1</sup>

young people who died of unintentional drug-overdose was 17.6 female young people in incident deaths (15.604 (71.9%)) vs.608 (736) (Table). Young people emanagement

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# Addiction as a Brain Disease

# Addiction = Substance Use Disorder

- Chronic relapsing condition (treatable!)
- Complex behavioral syndrome with physiological dependence
- Extreme tolerance and dependence
- Cycle of "spiraling dysregulation" of brain reward systems leading to compulsive behavior and loss of control over drug use: the hijacker
  - Natural reward system/survival hard wiring overtaken
- Loss of coping skills

#### How does addiction start?

- Drugs of abuse can release 5 to 10 times the amount of dopamine as natural rewards: Euphoria
- Onset can be immediate, prolonged, and often more intense than natural rewards (pending route of administration)
- Repeat use rewires the brain's reward circuitry with maladaptive behavioral patterns
- The effect of such a powerful reward strongly motivates people to take drugs again and again (craving)
- Downregulation of dopamine receptors
  - Use to feel "normal"

#### **Risk Factors for Addiction**

- Biologic factors
  - Genetic contribution 40-60% of risk
- Environmental factors
  - High drug availability, normalizing alcohol and drug use, poverty, crime
- Individual factors
  - Lack of parental monitoring, unstable home, lack of attachment to community or school, early onset of substance use
  - Adverse Childhood Experiences/Trauma

# **Protective Factors**

- Parental involvement
- Healthy peer involvement
- Availability of faith-based resources
- After-school activities
- Policies limiting the availability of alcohol
- Attachment to community
- Pro-social engagement
- Connectedness to adults outside of family

#### Why not everyone?

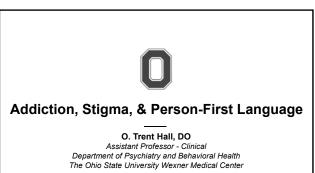
- Complex interplay of biology/genetics, environment, and individual experiences
- Factors such as route of administration, effect of the drug itself, availability, and age of first use also play a role

#### Effects of Chronic Drug Use

- Chronic use leads to dopamine downregulation in the brain cortex & reduced dopamine signaling
  - Decreased euphoria
  - Normal satisfactions get a very weak signal to the decision areas
  - Loss of enjoyment and satisfaction

#### Priorities are rearranged

- Drug gives enough signal to remain salient
- Must take the drug to feel normal or at least less abnormal
- Normal reinforcers give less signal and are less important



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What is Stigma

# What is Stigma?

 $\mathsf{Label} \rightarrow \mathsf{Associated} \; \mathsf{Stereotype} \rightarrow \mathsf{Negative} \; \mathsf{Response}$ 

# What is Stigma?

Label  $\rightarrow$  Associated Stereotype  $\rightarrow$  Negative Response

# What is Stigma?

 $\mathsf{Label} \rightarrow \mathsf{Associated} \; \mathsf{Stereotype} \rightarrow \mathsf{Negative} \; \mathsf{Response}$ 

# Stigmatized Diseases?

• Viewers, please take a moment to consider this question: Can you think of any stigmatized health conditions?

# Stigmatized Diseases?

• Common responses include: diabetes, sexually transmitted infections, chronic pain, mental health conditions, etc.

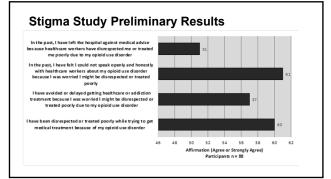
# Stigmatized Diseases?

• Viewers, please take a moment to consider this question: Are you aware of any health conditions that have become less stigmatized over time?

Stigmatized Diseases?

Common responses include: cancer, HIV

Stigma as a Barrier to Care



# Substance Use Stigma

- Alcohol and substance use disorders are highly stigmatized diseases
- Negative stereotypes about individuals with these health conditions are common among healthcare workers and the general public
- Stigma can be internalized by individuals who use alcohol and other substances presenting a barrier to treatment

#### Stigma as a Barrier to Care

• Viewers, please take a moment to consider this question: What percentage of people living with opioid use disorder received medication in 2020?

#### Stigma as a Barrier to Care

- Viewers, please take a moment to consider this question: What percentage of people living with opioid use disorder received medication in 2020?
- Answer: In 2020, <u>only 11.2%</u> of the 2.5 million Americans with OUD received medication treatment (buprenorphine, methadone, or naltrexone).

#### Stigma as a Barrier to Care

- Numerous studies have found that fear of stigma is an important reason many people with substance use disorder <u>avoid or delay</u> seeking treatment
- Patients are <u>commonly concerned that they may be mistreated</u>, condescended or that they will be 'thought less of' when seeking help for alcohol or substance use
- Stigma also negatively impacts treatment <u>retention and</u> <u>adherence</u> among those who do seek help.
- Perceived stigma from treatment providers is <u>harmful to the</u> <u>therapeutic alliance</u>

# **Stigma Research**

Let's review some important research about addiction stigma

Stigma among health professionals towards patients with substance use disorders and its consequences for healthcare delivery: systematic review

- Drug and Alcohol Dependence
- Pubmed, PsycINFO, Embase systematically searched
- 28 studies included from 2000 2011

Van Boekel et al., 2013

#### **Stigma Research**

- Key Findings:
- Health professionals generally had a negative attitude towards patients with substance use disorders.

Van Boekel et al., 2013

# **Stigma Research**

- Key Findings:
- Healthcare professionals perceived violence, manipulation, and poor motivation as impeding factors in the healthcare delivery for these patients.

Van Boekel et al., 2013

#### **Stigma Research**

- Key Findings:
- Health professionals also lacked adequate education, training and support structures in working with this patient group.

Van Boekel et al., 2013

# Stigma Research

- Key Findings:
- Negative attitudes of health professionals diminished patients' feelings of empowerment and subsequent treatment outcomes.

Van Boekel et al., 2013

Does our choice of substance-related terms influence perceptions of treatment need? An empirical investigation with two commonly used terms

Kelly et al., 2010a

#### **Stigma Research**

# Kelly et al., 2010a tested whether referring to an individual as a "substance abuser" versus "having a substance use disorder" (SUD) impacted perceptions of:

- Treatment need
- Punishment
- Social Threat
- Problem Etiology

#### Self-Regulation

#### Stigma Research

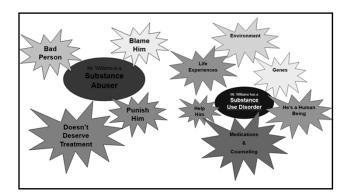
#### "Substance Abuser"

Mr. Williams is a substance abuser and is attending a treatment program through the court. As part of the program Mr. Williams is required to remain abstinent from alcohol and other drugs. He has been compliant with the program requirements, until one month ago, he was found to have two positive urine toxicology screens which revealed drug use and a treathalyzer reading which revealed alcohol consumption. Within the past month there was a further urine toxicology screen revealing drug use. Mr. Williams has been a substance abuser for the past few years. He now awaits his appointment with the judge to determine his status.

#### "Substance Use Disorder"

Mr. Williams has a substance use disorder and is attending a treatment program through the court. As part of the program Mr. Williams is required to remain abstiment from alcohol and other drugs. He has been compliant with the program requirements, until one month ago, he was found to have two positive unine toxicology screens which revealed drug use and a breathalyzer reading which revealed alcohol consumption. Within the past month there was a further unine toxicology screen revealing drug use. Mr. Williams has had a substance use disorder for the past few years. He now awaits his appointment with the judge to determine his status.

	user versus Substance Use
Disorder	Therapy
<ul> <li>Kelly et al. found that simply</li> </ul>	Medication Violent AbuserExoneration
substituting these phrases led to significant	Punishment
differences in how participants saw	Help Treatment Blame
patients with SUD	Regulation
	Competent
	Competent



# Stigma Research

Does it matter how we refer to individuals with substancerelated conditions? A randomized study of two commonly used terms

- Follow up study
- · Recruited only trained behavioral health professionals

Kelly et al., 2010b

#### Stigma Research

- Kelly et al., 2010b replicated their previous finding in a sample of clinicians at two mental health conferences (N=516)
- Even among highly trained mental health professionals, exposure to these two commonly used terms evoked systematically different judgments. The commonly used "substance abuser" term may perpetuate stigmatizing attitudes.

# **Stigmatizing Language**

# Stigmatizing Language

- Our understanding of what language is stigmatizing continues to evolve
- However, organizations such as the American Society of Addiction Medicine, the International Society of Addiction Journal Editors and the U.S. Office of National Drug Control Policy have provided useful guidance

# Stigmatizing Language



Changing the Conversation

Clean → Remission or Recovery Drug Abuse → Substance Use, Misuse, Use Disorder, etc. Opioid Substitution / Replacement → MOUD Clean Urine → Negative Urine Drug Screen Dirty Urine → Positive Urine Drug Screen

# **Person-First Language**

# Person-First Language

- The <u>clinically accurate</u> alternative to stigmatizing language
- Recommended for use in referring to anyone with a chronic health condition or disability.

# Person-First Language

#### • Examples:

- Person with diabetes
- <u>Person with</u> tetraplegia
- Person with bipolar disorder

# Examples

Instead of:	Try:
Drug Abuser, Addict	Person with a Substance Use Disorder
Addiction	Substance Use Disorder
Clean	Abstinent
You tested clean.	The screen is negative.
You tested dirty.	The screen is positive.
That person has a drug habit.	Person with a Substance Use Disorder

# Person-First Language

• Viewers, please take a moment to consider this question: Why <u>do you</u> think it might be important to use person-first language?

# Person-First Language

 Viewers, please take a moment to consider this question: Can you think of some scenarios in your practice where the choice of words might impact care?

#### When to Use Person-First Language

- Handoffs
- Sign outs
- Private conversations with other healthcare workers
- Documentation
- · Interactions with patients and their families
- · Interactions with the public



# **Stigma in Mental Health**

Instead of:	Try:
Mental illness	Mental health condition
Schizophrenic/psychotic	Person with schizophrenia/ person with psychosis
Successful/committed suicide	Died by suicide
Unsuccessful/failed suicide attempt	Survived a suicide attempt
Threatened suicide	Disclosed suicidal thoughts
Is suicidal	Thinking of suicide/is experiencing suicida thoughts
Mental institution/psych ward	Behavioral health facility/ inpatient psychiatric unit

**Stigma in Addiction Care** 

#### Suboxone Myths

- Replacement of one addiction for another
- Replacement of one addiction for another

   Addiction=compulsively taking a substance, despite harm
   MOUD is taking a prescribed medication to manage a chronic disease, not unlike diabetes
   While buprenorphine has analgesic properties, very minimal euphoria

   Too time consuming to initiate and the medication is "dangerous"

   Simple screening, determine if in withdrawal, dosing is not complicated and much easier to start than insulin; very few side effects; opioids and oral anticoagulants are much more dangerous
   Detoxification is "effective"

   NO! 90% relapse rate with detox alone; also increased rate of overdose
- .
- Decrease opioid prescribing will "fix" the problem
   Since 2012, opioid prescribing patterns have declined, but death rate has increased (fentanyl)



#### Summary

- · Addiction is a treatable brain disease
- Alcohol and substance use disorders are highly stigmatized chronic health conditions
- Stigma impacts healthcare access, retention, adherence and outcomes
- · Clinically accurate person-first language is the solution to these problems
- · Each of us has a role to play in fighting stigma

#### Suggested Reading/References

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