Understanding Changes to the Brain Due to **Substance Use Disorders and Trauma**



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Trauma Competent Organizations

Understand, recognize, and respond to trauma

Focus on physical, psychological, and emotional safety of participants/clients/staff

Help people rebuild a sense of control and empowerment

http://www.nationalcenterdvtraumamh.org/wp-content/uploads/2016/01/NCDVTMH_PromisingPracticesReport_ 2015.pdf

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Trauma Informed Communication

YES	NO
Person with a substance use disorder/person who misuses substances	Addict/Junkie
Substance Exposure	Abuse/Abuser
Sober/Recovery/Remission	Clean
Positive Test/Use	Dirty
Boundaries/Self-care	Enabling
Return to Use/Recurrence	Relapse/Lapse/Slip
Medicine for Addiction Treatment	Opioid Replacement
Recovery Research Institute: recoveryanswers.org	

The People We Work with Are Stressed

- Anxiety about their case
- Thinking about drug of choice
- Loss of Control
- Economic/Food/housing insecurity
- Covid-19
- Return to use
- Trauma response/Unexpected behavior



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Changes to the Brain

- Substance Misuse
- FASD
- Trauma
- Toxic Stress
- Historical Trauma
- TBI/Persistent Post-Concussive Symptoms



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Substance Use Disorder

Chronic relapsing brain disease:

- Loss of control over use
- High motivation to get substance
- Continued use despite negative consequences





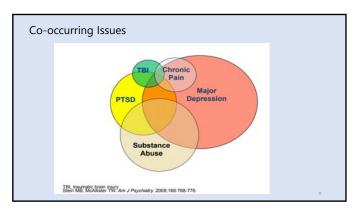
Dependence v Addiction





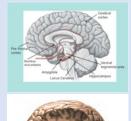


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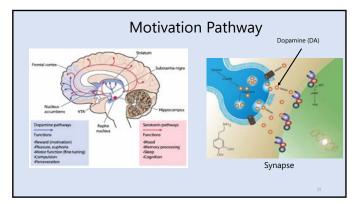
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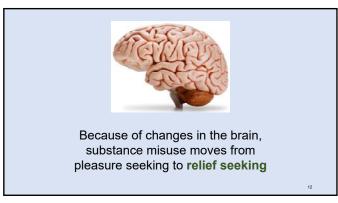
- <u>VTA/NA:</u> motivation pathway; fundamental needs to be satisfied
- Basal Ganglia: associated with habit formation
- Amygdala: smoke alarm; emotional information about event; conditioned response; craving; implicit memory
- Hippocampus: storage/ retrieval of emotion laden memories with input from amygdala; explicit memory
- $\bullet \ \underline{\textbf{Pre-frontal cortex}} : for ethought; \ planning$
- Locus coeruleus: alarm center
- Insular cortex: cravings; monitors body condition; social and physical pain

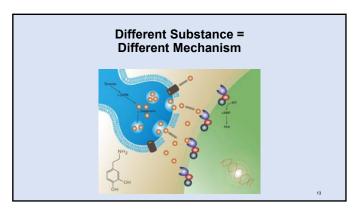


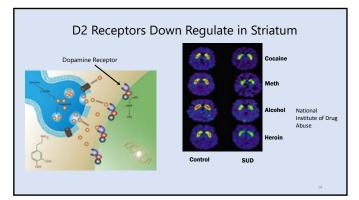


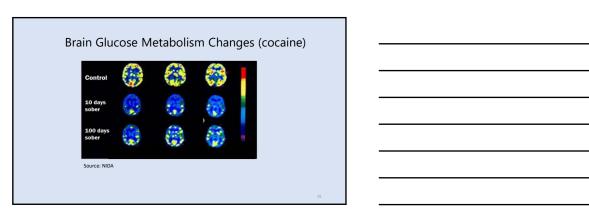
Pre-Frontal Cortex= Brakes PFC connectivity affected by trauma and SUDs Behavioral Response









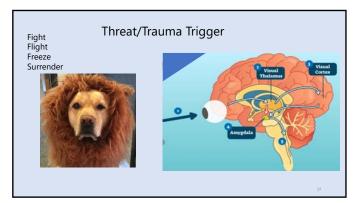


Trauma/Stress Response

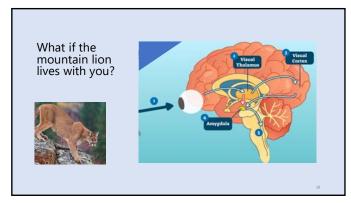
- A natural response to an unnatural circumstance
- Brain survival mode/self preservation
- Hypervigilance
- May cause people to act in unexpected ways

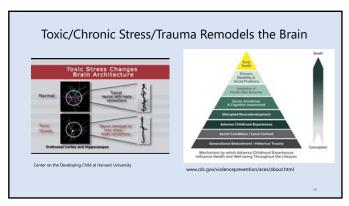


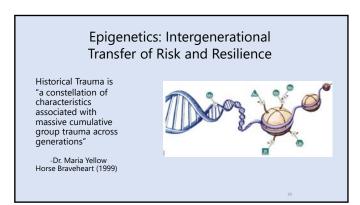
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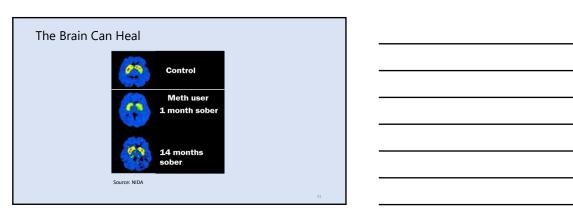


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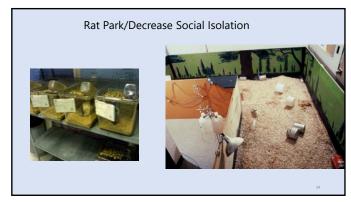












Pro-Social Activities

- · Peer Recovery
- Traditional crafts, cultural connections
- Outdoor activities: hiking, fishing, nature walks
- Community Service
- · Virtual Gatherings/online games
- · Community meals
- Aerobic Exercise



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Working Toward a Trauma Competent/Healing Focused Court

- · Trauma Training
- Motivational Interviewing Training for All Staff (Including the Judge)
- Seeking Safety or Other Traumafocused Groups
- Reflective Supervision
- Rules Reduction



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Trauma Informed Communication

- Maintain a calm/patient demeanor (open face)
- Speak slowly and clearly
- Allow plenty of time for the participant to respond

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No food or drink No gum No hats No sunglasses No shorts No swearing

Is the rule about safety or support?

Or, is the rule used to exert power and control over the participant?





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