

Slide 2

What does neurocognitive impairment looks like?

- Apathetic
 Lack of empathy (demanding or rude)
 Poor insight
 Difficulty Managing Emotions
 Gap between 'say and do'.
 Reductance to plan "awareness"
 Poor follow through
 Impulsivity



- Increase awareness of the intersection between brain injury and related cognitive impairments and their potential impact on service delivery.

 Provide an overview of essential skills required to address neurocognitive impairments in the people you serve.

 Screening for brain injury and cognitive impairment
 Recognizing and compensating for functional impairments
 Program and case management considerations
 Introduce free and available evidence-based training resources



Substance use and Traumatic Injury

- Intoxication increases the risk of having a brain injury.

 Each fall or overdose increases the likelihood of lingering cognitive impairment.

 The nature of brain injury and its outcomes increases vulnerability to substance use disorders.

 Brain injury may cause or worsen mental health symptoms.

 The cognitive and mental health consequences of brain injury may make it more difficult to benefit from treatment.

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Populations at risk for brain injury

Rural and Remote



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Homelessness

- N=326, 100 participants had a total of 175 TBIs (61% more than one TBI)
 Annualized incidence rates of 26%, as compared to 1% in the general population (Nikoo, Daderman, Krauss, Hwang & Palepu, 2017).
 Opioid dependence and previous TBI were significant risk factors.
 9,7% events were OD related
 60.8% intoxication
 18.3% LOC > 30 min.



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Childhood Brain Injury

- future development of the brain.

 Apparently mild injuries may have long-term impacts

 Longitudinal data point to elevated risks of Mental haith disorders

 Substance use disorders

 Lugal Involvement

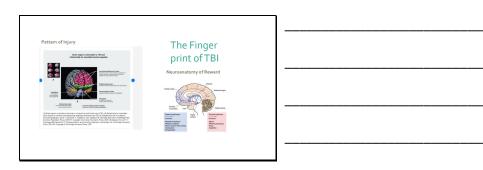
 Refused Educational Attainment

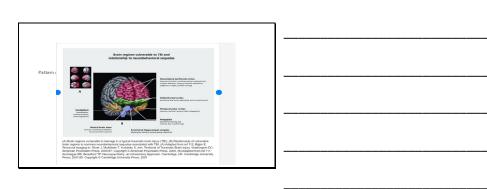


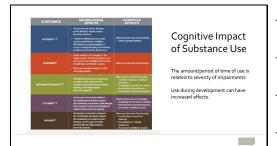
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History of brain injury is a marker for symptom complexity

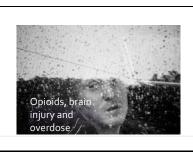
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Slide 16 Impact of Damage to pre-frontal cortex and reward system Opioid use limits the growth of connections in the hippocampus. Changes how pleasure and reward are perceived. Damage to frontal lobes where information about emotion is processed and planning and problem-solving take place. Slide 17 Impact of respiratory suppression Hypoxia: Reduction in oxygen available to the brain. Temporary memory loss Reduced coordination InattentivenessPoor judgement Anoxia: Complete lack of oxygen to the brain. Coma Seizure Brain death Many factors may contribute to cognitive impairment in people who use opioids Slide 18 Neurotoxic impact of opioids and other drugs on memory and executive functioning. Cognitive impact of chronic/infectious disease including HIV, Hepatitis. Pick of transatic brain injury. Risk of traumatic brain injury Possible additive effects of multiple overdoses 15

Effects of brain injury and substance use

- Cognitive Changes
- Attention
 Memory
 Problem-solving/planning communication
 Poor social cognition (reading and responding to emotion, social cues and behaviours)
- Changes in self-regulation
- nings a ni setti-regulation

 A reward system that is titled toward immediate reward (discounting the value of delay)

 Less active 'executive functioning'. Behavior is guided by 'habit' or compulsion.

 Less self-reflection

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Cognitive Impairment in Addictions Services

- 20 to 70% screen positive for cognitive impairment
- Higher in programs serving more complex clients
- 20-50% in programs serving people with alcohol use disorders

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Brief Screening Questions – Brain Injury

GSU TBI-ID Quick Screen

Flease think about injuries you have had during your
entire lifetime, especially those that affected your
head or nack. It might help to ensember times you
went to the hospital or emergency room. Think abou
injuries you may have received from a car or
motorcycle wered, bicycle cash, being hit by
contribute juling, being hit by someone, playing

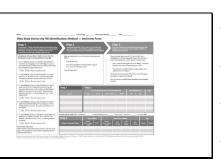
a. Thinking about any injuries you have had in your lifetime, were you ever knocked out, or did you lose consciousness?

Yes

No (IF NO, STOP HERE!)

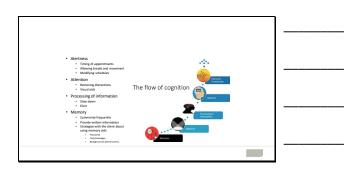
b. What was the longest time you were knocked out or unconstraint? (Thomas into no if you are not sure release.

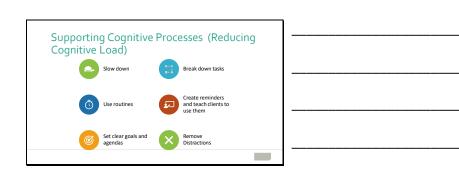
24 hours
__knocked out or lost consciousness for 24 hours or longer
c. How old were you the first time you were knocked out or
lost consciousness?
years old
years old

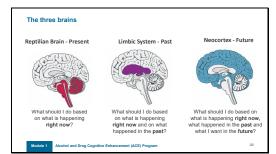




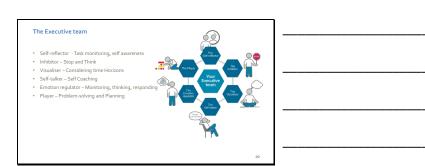
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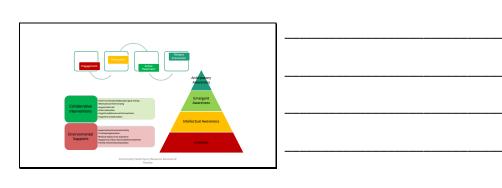






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Slide 31 RESOURCES Slide 32 https://aci.health.nsw.gov.au/projects/ ace-program • Screening Intervention Online training modules for facilitators Free materials Slide 33 A stepped wedge cluster randomised trial of a cognitive remediation intervention in alcohol and other drug (AOD) residential treatment services Jania Serv²-Talletta Januari² 3 stamp ² actions stated ³ detains state Increased completion rates (from 34% to 63%) Reduction in rates of cognitive impairment, (from 53% to 27%)



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Self Awareness Self-Awareness Defined Assessment of Self-Awareness Impact on Programming



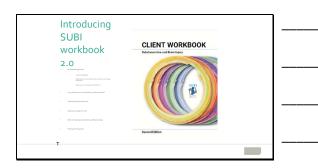
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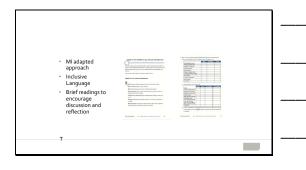






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Traumatic Brain Injury, Mental Health and Addiction John Corrigan, Ph.D.
Director, Ohio Valley Center for Brain Injury Prevention and Rehabilitation
https://www.youtube.com/watch?v=V3ymctg8g88

Traumatic Brain Injury and Behavioural Health Challenges Carolyn Lemsky, Ph.D.,
Director, substance use and brain injury bridging program
https://www.youtube.com/watch?v=4XbIUWhl1d0&t=126s