Th Traumatic

The Intersection between tic Brain Injury and Mental Health:

An Introduction







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- All attendees are muted, and attendees cannot share video during this session.
- Remember to ask questions using the Q&A feature. Only the answers will be seen by all attendees.
- The chat feature is public, and comments can be seen by all attendees.
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Who We Are

The Mountain Plains Mental Health Technology Transfer Center provides training and technical assistance on evidence-based practices to the mental health providers of Region 8 (Colorado, Montana, North Dakota, South Dakota, and Utah).

We belong to the Technology Transfer Center (TTC) Network, a national network of training and technical assistance centers serving the needs of mental health, substance use and prevention providers. The work of the TTC Network is under a cooperative agreement by the Substance Abuse and Mental Health Service Administration (SAMHSA).

Co-hosted by:

The University of North Dakota

and

The Western Interstate Commission for Higher Education (WICHE)



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https://ttc-gpra.org/P?s=317313





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At the time of this presentation, Elinore F. McCance-Katz served as SAMHSA Assistant Secretary. The opinions expressed herein are the views of Rebeccah Wolfkiel, Judy Dettmer, and Charles Smith and do not reflect the official position of the Department of Health and Human Services (DHHS), or SAMHSA. No official support or endorsement of DHHS, SAMHSA, for the opinions described in this presentation is intended or should be inferred.



Mountain Plains (HHS Region 8)

Mental Health Technology Transfer Center Network

Funded by Substance Abuse and Mental Health Services Administration

Traumatic

The Intersection between **Injury and Mental Health:**

oduction







Introduction



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Today's Presenters



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NASHIA's Mission

NASHIA is a nonprofit organization created to assist State government in promoting partnerships and building systems to meet the needs of individuals with brain injury and their families.



NASHIA Provides



Objectives

- 1. Gain an understanding of brain injury
- 2. Learn about the prevalence of brain injury in the context of behavioral health
- 3. Gain an understanding of a basic framework for supporting individuals with brain injury and co-occurring behavioral health





Why Knowing about Brain Injury Matters

- A history of TBI is often hidden among individuals with cognitive/intellectual disabilities, spinal cord injury, and behavioral health challenges (mental health and addiction).
- If provider knows/suspects history of TBI, they can engage from the start of the relationship and make the right referrals.





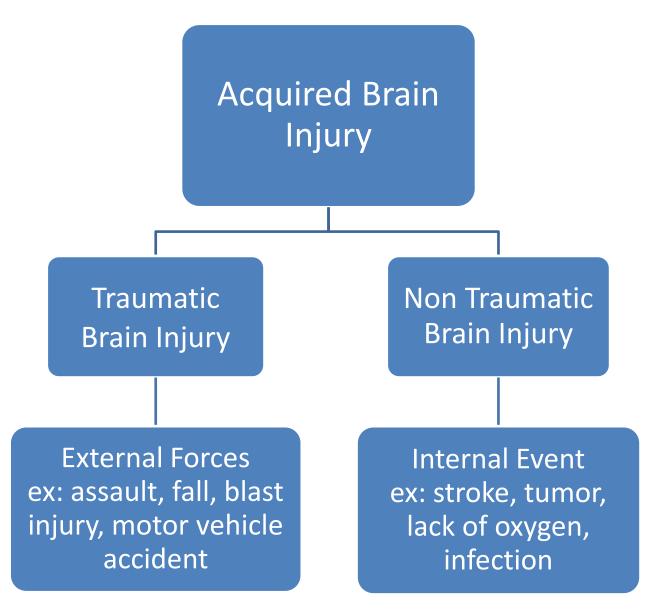
Why Knowing about Brain Injury Matters

- Provider can make simple accommodations to better support the individual's deficits
- Provide psychoeducation for the individual so that they may be better equipped to advocate for themselves





Brain Injury Defined



Classification of Severity

Mild > Loss of consciousness 0-30 minutes (Concussion)

Moderate > Loss of consciousness 30 minutes to 24hrs

Severe > Loss of consciousness for over 24 hours







Mild TBI – Complications

>75% of TBIs are mild. MTBI symptoms may appear mild, but can lead to significant, life-long impairment affecting an individual's ability to function physically, cognitively, and psychologically.

Symptoms may be subtle

- 90% of concussions are not associated with a loss of consciousness
- Concussive symptoms may develop over days or even months later

Treated in non-hospital setting, not in ED, or not treated at all

- 90% of mTBI may go unreported
- Often not visible on CT scan or MRI

Brain Injury can mirror other disabilities or conditions

Possible Physical Changes

Injury-related problem	How it may affect a person functionally
Coordination	Unsteady gait, poor eye-hand coordination, slow or slurred speech, tremors, paralysis
Visual Deficits	Staring or poor eye contact, blurred or double vision, inability to follow an object with their eyes
Additional Physical Challenges	Seizures, deaf or hard of hearing, fatigue

Possible Cognitive Changes

Injury-related problem	How it may affect a person functionally
Memory	Trouble following directions, providing requested information, making appointments
Processing (receptive)	Understanding what is being said and reading
Processing (expressive)	Trouble putting thoughts into words — tip of the tongue syndrome
Problem solving (related to frontal lobe and temporal tip injury)	Impulsive, easily frustrated, sexually disinhibited, verbally/physically combative, interpersonally inflexible, poorly organized



Possible Behavioral Changes

Injury-related problem	How it may affect a person functionally
Depression	Flat affect, lack of initiation, sadness, irritability
Unawareness	Unable to take social cues from others
Confabulation	"Making up stories"
Perservation	Gets "stuck" on a topic of conversation or physical action
Anxiety	Can exacerbate other cognitive/behavioral problems

Special Populations





Behavioral Health and Brain Injury

Suicide Attempts

- 28% with suicidal thoughts, 17% attempts
- 4% in general population

Substance Abuse

- 43% alcohol abuse,
 29% illicit drugs, 48%
 either
- 7% general population (NSDC, Corrigan, 2003)

Mental Health

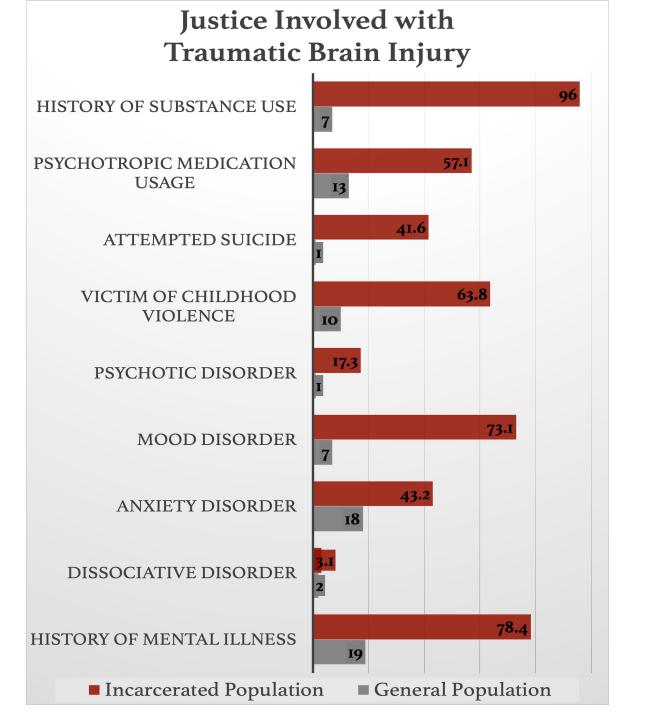
- 1/3 of TBI survivors experience mental health after TBI
- 19% general population

Justice Involved

- Meta-analytic review found the prevalence of TBI in the offender population to be 60.25% (Shiroma, Ferguson, & Pickelsimer, 2010)
- A meta-analysis found that approximately 30% of juvenile offenders have sustained a previous brain injury (Vaughn, Salas-Wright, Delisi, & Perron, 2014)
- TBI is associated with higher impulsivity, aggressive behavior and negative emotion ratings (Farrer, Frost, & Hedges, 2013)



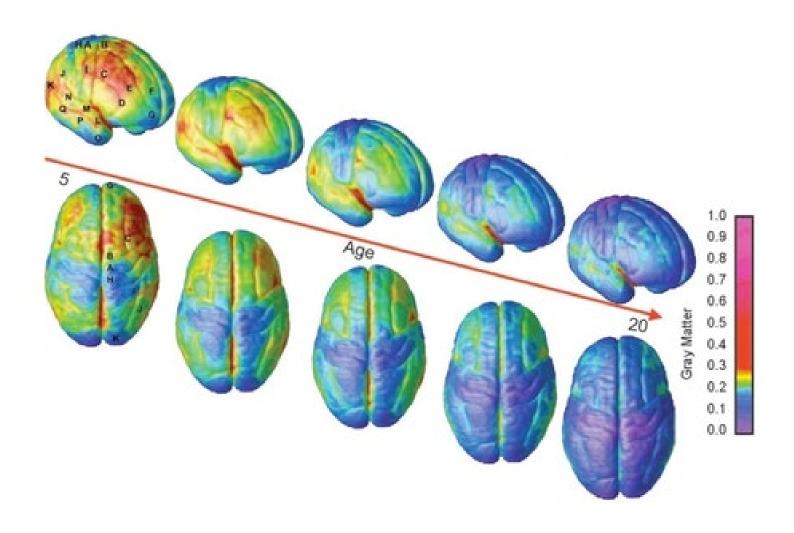




Individuals Experiencing Homelessness

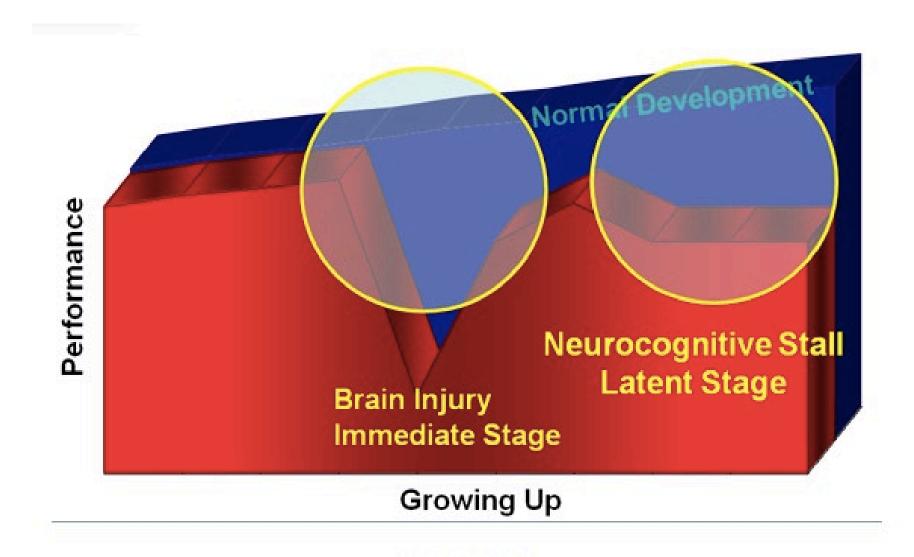
- 43% (n over 2,000) of respondents reported a history of TBI with the mean age of first injury being 15
- Individuals with TBI become homeless at a younger age and are more likely to report mental health diagnoses, substance use, suicidality, victimization, and difficulties with activities of daily living
- 51% reported sustaining their first injury prior to becoming homeless or at the same age as their first homelessness episode. (Mackelprang, Harpin, Grubenhoff, & Rivara, 2014)







Pediatric TBI: Two Stages of Recovery



Veterans and Brain Injury

- During peacetime, over 7,000 annually admitted to military and veterans' hospitals with diagnosis of TBI (IOM, 2009)
- 80 percent of TBIs since Sept. 11, 2001 have been non-combat related
- More common among non-combat military personnel than in the general population:
 - $_{\circ}$ High concentration of service members in the highest incidence age groups (18 44)
 - Greater risk for injury associated with non-combat military duties
 - Greater consumption of alcoholic beverages by military personnel

Screening for Brain Injury



Importance of Screening for Brain Injury

One study found that 42% of persons who indicated they had incurred a TBI as defined by the CDC did not seek medical attention (Corrigan & Bogner, 2007)

- Clients may be eligible for case management support/services
- Psychotherapies can be adapted for neurocognitive deficits. Examples:
 - Minimize environmental distractions
 - Educational therapies (e.g. CBT, DBT) should emphasize pacing, provide frequent opportunities for clients to respond, generate feedback, and provide reinforcement to maintain client engagement
 - Written material/handouts where possible
 - Repetition of key points

Components of Screening

- Education / awareness
 - Training regarding the sequelae of brain injury
 - Important to have a foundational knowledge of brain injury
 - Training should be provided to anyone conducting intake/screening
- Medical documentation
 - Best practice
 - Important to note that medical documentation only indicates an injury not impact
 - Documentation should be from a clinician trained in diagnosing TBI
- Establishing credible history
- Assessing impact
- Modifying/generating novel interventions

Screening Tools

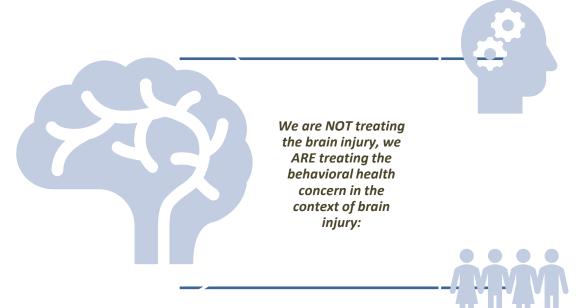
1. Ohio State Traumatic Brain Injury Identification Method (OSU TBI-ID)

(Ages 13 plus)

https://wexnermedical.osu.edu/neurological-institute/departments-and-centers/research-centers/ohio-valley-center-for-brain-injury-prevention-and-rehabilitation/for-professionals/screening-for-tbi

2. Brain Check Survey (School aged children/youth) https://www.chhs.colostate.edu/ot/research/life-outcomes-after-brain-injury-research-program/

Framework for Support



Demystifies brain injury for non-brain injury professionals

Empowers individuals with brain injury and families to advocate for appropriate supports

Framework

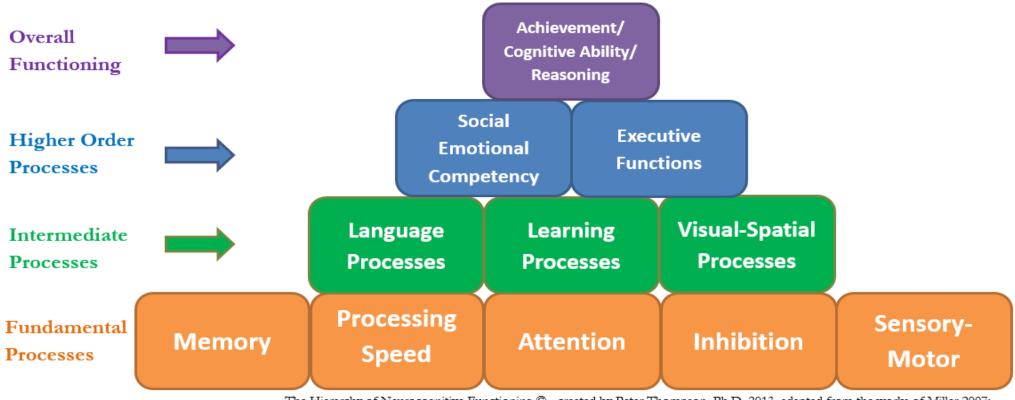
Build capacity of the behavioral health system so providers can:

- 1. Ensure policies do not inadvertently exclude those with brain injury.
- 2. Screen for and recognize brain injury.
- 3. Screen for the affects of brain injury.
- 4. Provide basic accommodations and modifications to ensure treatment is more successful.
- 5. Provide referral to appropriate brain injury related resources.





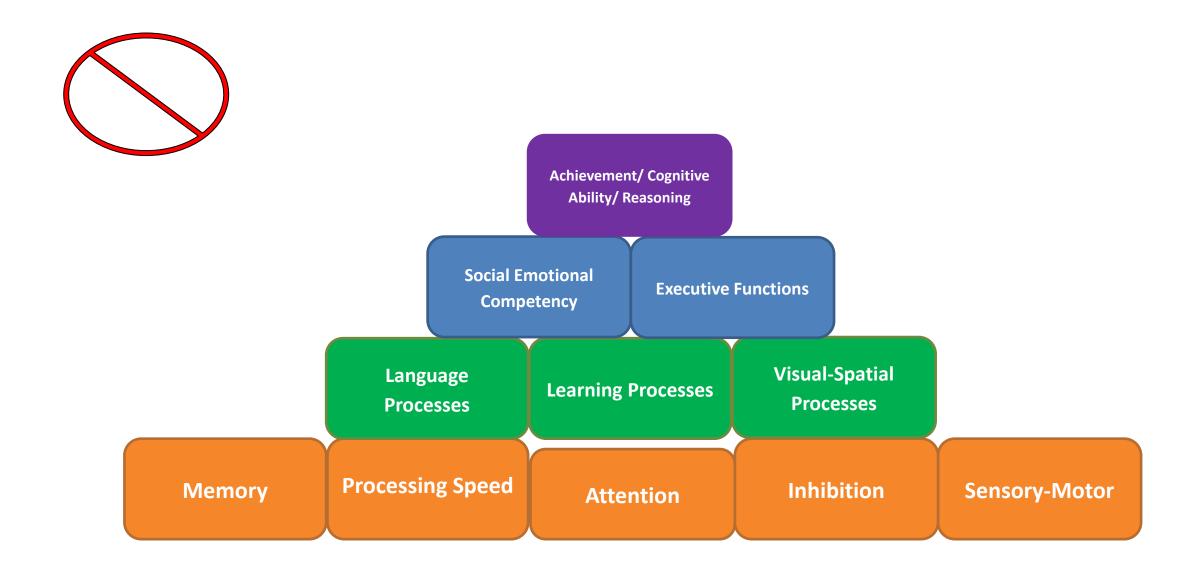
Building Blocks of Brain Development ©

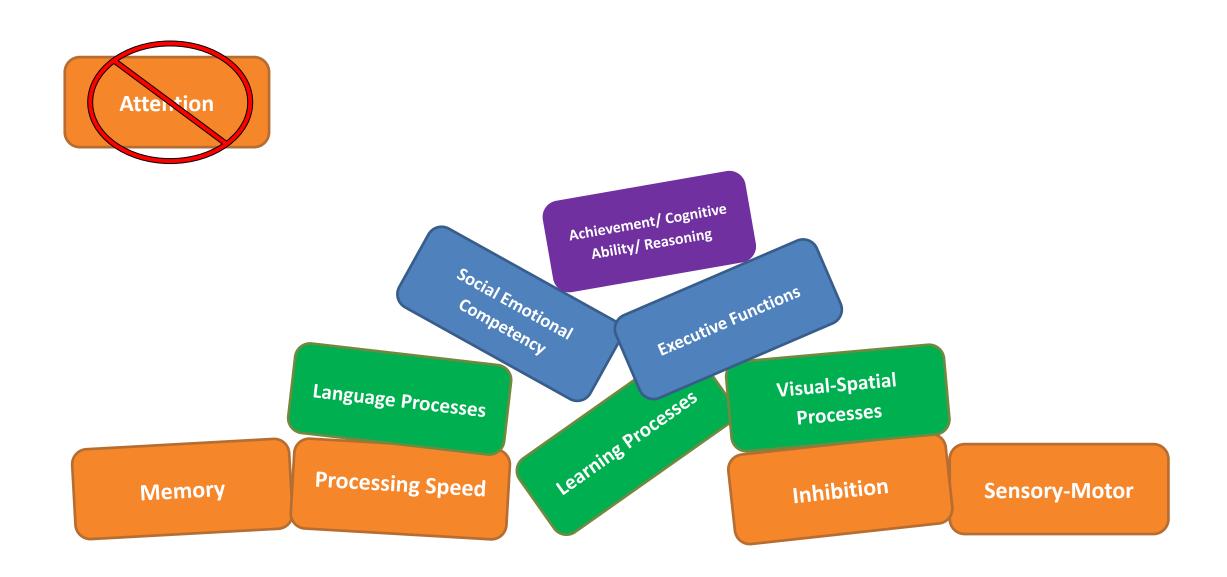


 $\label{eq:condition} The \ Hierarchy\ of\ Neurocognitive\ Functioning\ @\ -\ created\ by\ Peter\ Thompson,\ Ph.D.\ 2013,\ adapted\ from\ the\ works\ of\ Miller\ 2007;$

Reitan and Wolfson 2004; Hale and Fiorello 2004.

The Building Blocks of Brain Development @ - further adapted by the CO Brain Injury Steering Committee, 2016.







Skill Vs. Will

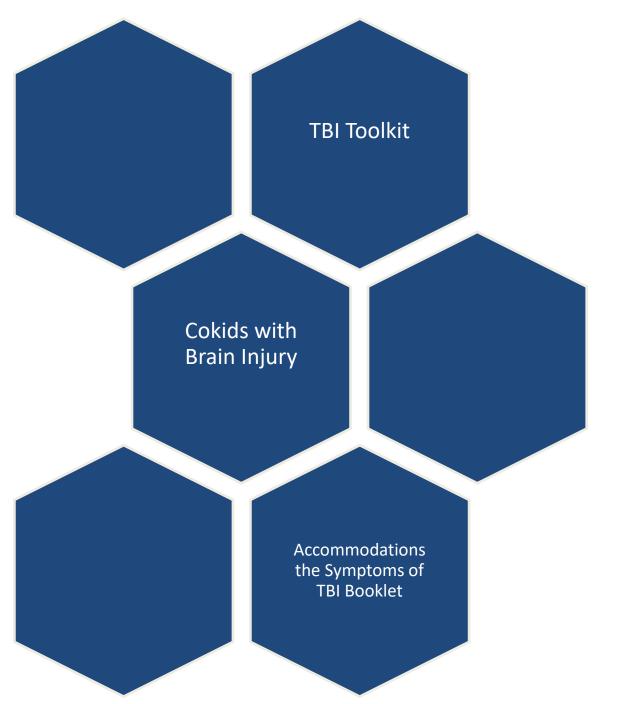


If think they have the skill but choose to not use it, likely to think punishment



If think they don't have the skill, less likely to think punishment, more likely to think of teaching the skill

Helpful Tools



TBI Toolkit

Free Online Toolkit



Developed by researchers at the Department of Veterans Affairs, this toolkit is designed to assist providers in identifying TBI and associated co-occurring problems and determining potential need for further evaluation and/or mental health treatment modification.

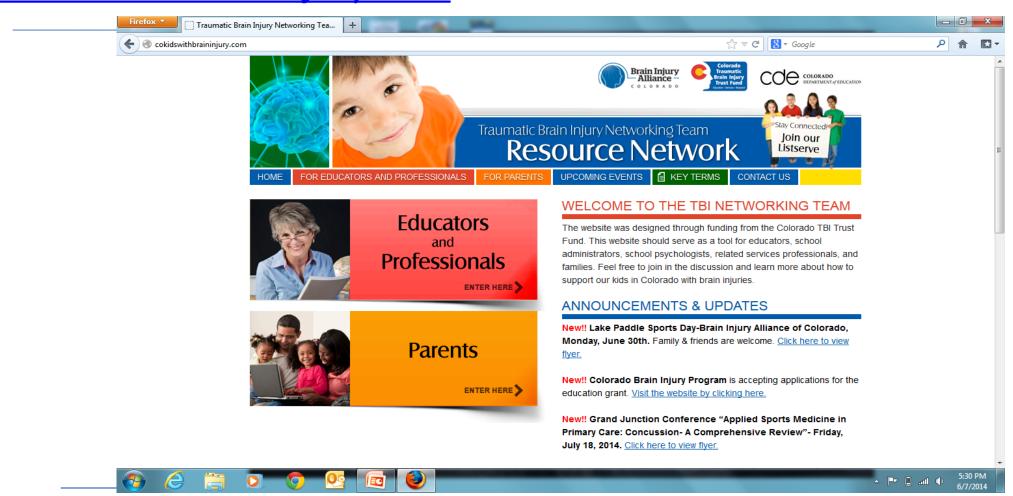
Click <u>here</u> to access the toolkit. Click <u>here</u> and open the "Training Resources" menu for valuable slides from the initial training on this toolkit.

The goal is to offer providers working with clients who have a history TBI and mental health symptoms the following:

- · Background information/Education
- · Screening and Assessment Tools
- · Interventions and Treatment Modification Suggestions
- Additional resources

Cokids with Brain Injury

www.cokidswithbraininjury.com



Accommodating the Symptoms of TBI

http://ohiovalley.org/informationeducation/accommodatingtbi/

Presented by:

Ohio Valley Center for Brain Injury Prevention and Rehabilitation

With contributions from Minnesota Department of Human Services
State Operated Services

Additional Resources

Traumatic Brain Injury Model Systems Knowledge Translation Center: https://msktc.org/tbi

https://msktc.org/lib/docs/Factsheets/TBI Emotional Problems and TBI.pdf

https://msktc.org/lib/docs/Factsheets/TBI Depression and TBI.pdf

Additional Resources

Brandies, Heller School, Institute for Behavioral Health:

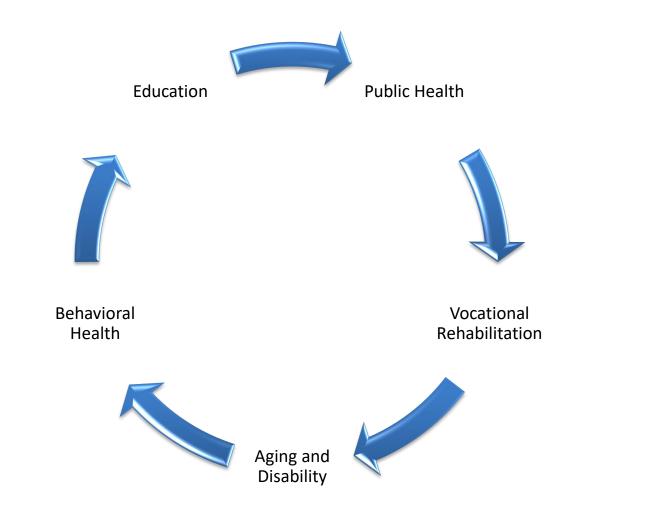
https://heller.brandeis.edu/ibh/research/inroads/publications-products.html

Brainline:

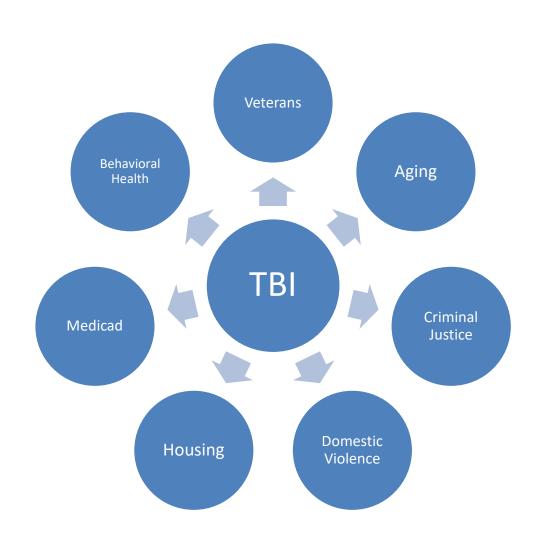
https://www.brainline.org/

Ohio Valley Center for Brain Injury Prevention and Rehabilitation: https://wexnermedical.osu.edu/neurological-institute/departments-and-centers/research-centers/ohio-valley-center-for-brain-injury-prevention-and-rehabilitation

State Brain Injury Programs & Partnerships https://www.nashia.org/state-program-directory



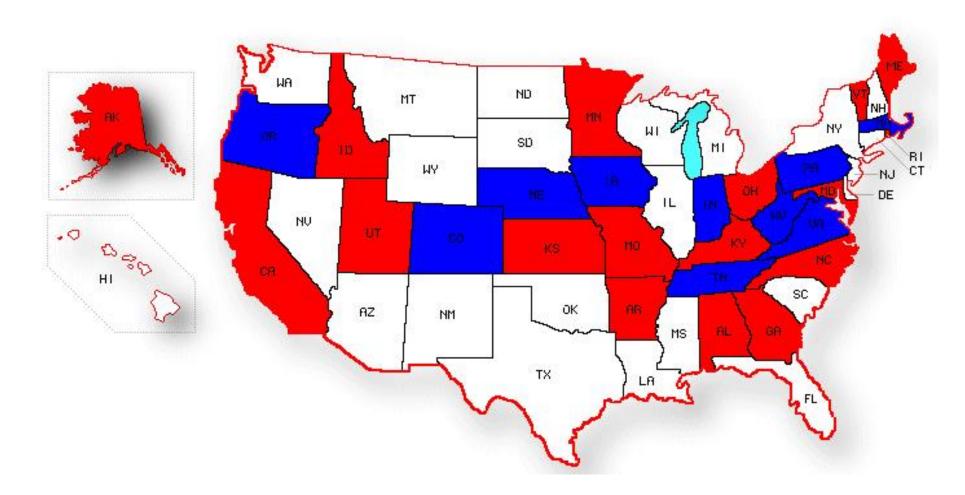
State Program Partnerships



ACL TBI State Partnership Program

ACL grantees

- Mentor States
- Partner States



Bridging Brain Injury & Behavioral Health Systems

Opioid & Brain Injury Webinar Series (www.nashia.org/webinars.asp)

Opioid & Brain Injury Fact Sheet

Partnership with NASMHPD

- 2018 Reciprocal Conference Participation
- 2019 SAMHSA funded paper "TBI and Behavioral Health Treatment"
- 2019 & 2020 Presentations Before State Mental Health Directors

Bridging Brain Injury & Behavioral Health Systems

"What If There's a TBI?" Online Training Module w/ State Brain Injury Resources

2020 Annual Conference

Collaboration with Craig Hospital





THANK YOU!

Questions????

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