

# Trends in Criminal & Juvenile Justice

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### **Brain Injury in Criminal Justice**

- Williams, Mewse, Tonks, Mills, Burgess, and Cordan (2010) found the incidence of TBI in correctional settings to be 65%.
- With 2 million incarcerated offenders, we have 1.2 million people living with brain injury in our prisons.
- Prevalence in the population on the whole is 4.5 % which would predict 90,000 in prisons

## Prevalence of Traumatic Brain Injury in an Offender Population: A Meta-Analysis

Eric J. Shiroma, MS<sup>1,2</sup>; Pamela L. Ferguson, PhD<sup>1</sup>; E. Elisabeth Pickelsimer, DA<sup>1</sup>

	Any TBI	TBI with LOC
All screening methods	60.3%	50.2%
In-depth interview	66.9%	52.3%

Based on 20 studies published between 1983-2009; Estimates are weighted for gender and offender type

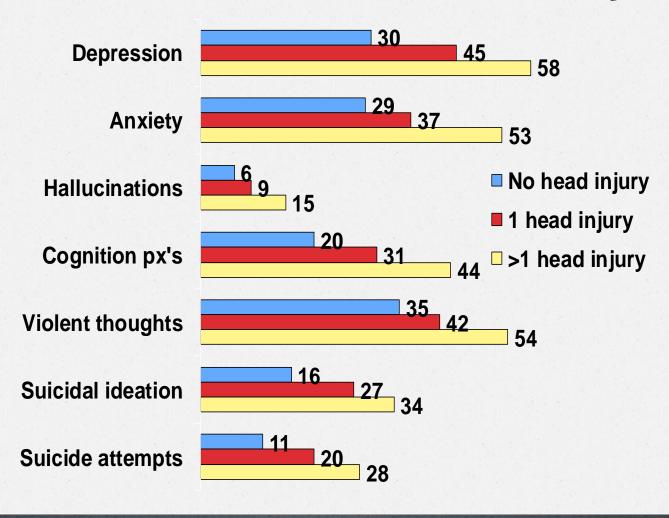




# TBI and In-Prison Behavior Piccolino & Solberg, 2014

Likelihood Affected by Previous TBI:	Low (no TBI)	Possible	Probable	p
Did not complete SUD Tx	19.5%	29.3%	37.3%	ns
Required Crisis Intervention	2.9%	5.7%	11.5%	.001
Major Disciplinary Infraction	16.4%	23.1%	22.2%	ns
Minor Disciplinary Infraction	45.6%	50.3%	55.6%	ns
Recidivism After Release	33.3%	43.3%	51.1%	.011

#### Behavioral Health Symptoms in Kentucky Prisoners Walker, Hiller, Staton, & Leukefeld, 2003



# Why Screen for TBI Among Justice-Involved Individuals?





### **Federal Recommendations**

- The Commission on Safety and Abuse in America's Prisons was established in 2005 to identify and recommend solutions to the most serious challenges facing America's jails and prisons.
- 2006 report (<a href="http://www.ojp.usdoj.gov/bjs/mhppji.htm">http://www.ojp.usdoj.gov/bjs/mhppji.htm</a> and <a href="http://wera.org/project/commission-safety-and-abuse-americas-prisons">http://wera.org/project/commission-safety-and-abuse-americas-prisons</a>) recommend increased health screening, evaluation, and treatment for inmates as well as
  - Routine screening for TBI
  - Screening individuals with TBI for substance abuse and co-occurring mental health diagnoses
  - Education for personnel about how to manage and support individuals with TBI (see also
    - http://www.cdc.gov/traumaticbraininjury/pdf/Prisoner\_TBI\_Prof-a.pdf)

# TBI can affect the delivery of correctional health services and offender management (Piccolino & Solberg, 2014)

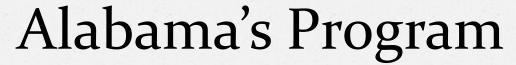
- Increased utilization of services while incarcerated (health and psychological)
- Lower treatment completion rates and higher rates of disciplinary incidents
- Lower ability to maintain rule-abiding behavior during incarceration
- More prior incarcerations
- Higher rates of recidivism (17% higher than a "low TBI" group)
  - See also Williams, Mewse, Tonks, Mills, Burgess & Cordan, 2010
- Higher levels of alcohol and drug use preceding their current incarceration

#### These justice-involved individuals report a greater incidence of:

- Severe depression and anxiety
- Substance use disorders
- Problematic anger
- Suicidal ideation and/or attempts

### **Treatment**

- Treat the Deficit not the BRAIN INJURY
- Psychotherapies can be adapted for neurocognitive deficits.
- Minimize environmental distractions.
- Written material/handouts where possible.
- Repetition of key points.
- Non-electronic devices might include checklists, pictures or icons, photograph cues, post-it-notes, calendars, planners, and journals.
- Therapies should be introduced with a simple rationale.









### **ACL** Grant

- Provide training for DYS system and community JJ stakeholders: GALs, JPOs, diversion program staff, judges
- Provide JJ/CJ training for all TBI staff
- Screen for history of brain injury OSU TBI-ID
- Collect records and conduct interview by phone
- Abbreviated intake/summary/recommendations by neuropsychologist
- Refer to TBI system staff: NP, counselor, AHIF
- Community Reentry Services and Supports

## ACL Grant Partners/Roles

AL Department of Rehabilitation Services, CRS/Title V:

- Lead Agency For TBI/Coordinate activities
- Conduct interview/intakes
- Community Reentry/Resources
- Provide Training

University of Alabama at Birmingham & NP partners:

- Assist with project guidance
- Conduct assessments

AL Department of Youth Services, AOC and JJ County Pilot Sites:

- Conduct Screening and Referral
- Assist with training

## ACL Grant Partners/Roles

#### Alabama Head Injury Foundation

- Assist with Community Reentry/Resources
- Assist with training, outreach

#### Alabama Disabilities Advocacy Program

- Identify stakeholders
- Assist with training, outreach
- Screen for TBI in associated facilities

#### Mt. Sinai TBI Model System/JJ El Paso Project

Provide YSTEP Training and Consult

#### Center for Essential Management Services

Project Evaluation



Sites: Total = 253		
Jefferson 5%		
Calhoun	95%	

OSU TBI ID		
Positive - Lifetime hx	14%	
Negative- Lifetime hx	87%	

Gender		
Male	73%	
Female	27%	

Age	
11	3
12	5
13	14
14	32
15	56
16	66
17	54
18	5

Race		
Black	35%	
White	65%	
American Indian/		
Alaska Native	0%	
Asian	0%	
Native	Come N	
Hawaiian/Other		
Pacific Islander	0%	
Ethnicity:		
Hispanic/Latino/Spanish		
Yes	3%	
No	97%	

Medicaid Recipient?		
Yes 64%		
No	36%	



- Referral to ADRS: TBI Pediatric, Adult, Independent Living
- Referral to AHIF: Respite, Recreation, Support Groups
- YSTEP: All diversion program youth in Calhoun county
- WIOA/Pre-Employment Transition Services: All diversion program youth in Calhoun county



- General TBI Training: AOC, JPOs, GAL, Judges, DYS Programs Statewide
- Targeted Training: Pilot Sites and TBI Staff
  - Screening
  - Mental Health/Substance Use
  - Suicide Prevention
  - YSTEP
  - Return to Think/Get Schooled on Concussion

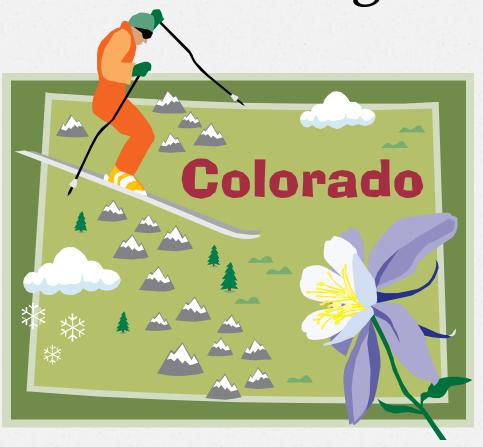
# Next Steps

- Sustainability:
  - Continued Referrals to ADRS and AHIF Programs
  - YSTEP for pilot sites for ALL youth
  - PreETS services through VR
  - Screening for other programs: DHR, MH



- Alabamatbi.org: Online Learning
- YSTEP Training Manual
- Get Schooled on Concussion Educators Manual
- Reports from both TBI and JJ/CJ Summits hosted by Alabama

# Colorado's Program





- Screen for lifetime history of brain injury modified OSU TBI-ID
- Screen for neuropsychological impairment
- Refer to community based case management services
- Ensure a well trained criminal justice workforce
- Provide psycho-educational training for inmate/probationer



#### University of Denver:

- Coordinate and supervise student clinicians
- Conduct secondary screens
- Assist with psycho-social curriculum development

#### University of Colorado:

Modify web based toolkit best practices for screening, assessment, intervention support

#### CO Department of Judicial:

Assist with training and professional development

# ACL Grant Partners/Roles

#### Brain Injury Alliance of Colorado:

- Outreach to criminal justice sites
- Provide case management services & education consultation
- Partner in training and capacity building

#### CO Department of Education:

Assist with training and professional development for youth

#### LM Enterprises, Dr. Laura Meyer:

Coordinate program evaluation of the grant



- 1. Screen for lifetime history of brain injury
- 2. Screen for neuropsychological impairment
- 3. Refer for community based case management support



- County Jail settings
- Problem Solving Courts (Drug/Veteran)
- 3. Probation settings (adult sex offender, adult female population, adult persistent mental illness, and juvenile probation)
- 4. State operated Division of Youth Corrections sites



- Ohio State University Traumatic Brain injury Identification Method (OSU TBI-ID) modified
- Sites administered
- MINDSOURCE and BIAC train to administer



Determined positive if one or more of the following criteria are met:

- Worst = experienced unconsciousness for greater than 30 minutes (moderate/severe)
- First = first TBI with loss of consciousness before the age of 15
- Multiple = 3 or more with altered mental status or 2 injuries within a 3 month period

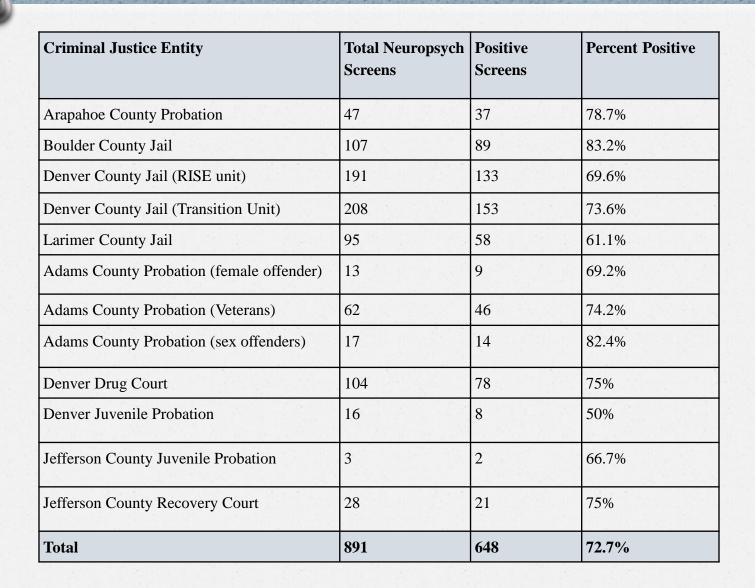


- Student Clinicians supervised by Clinical Psychologist
- Three effort tests, structured interview
- Automated Neuropsychological Assessment Measure (ANAM) Core Battery
- Positive screen when scores are more than 2 standard deviations below the mean ("Clearly Below Average")
- Report and feedback



- 1. Screen for lifetime history: use tool they developed
- "Colorado Brain Injury Screening Questionnaire"
- 2. If screen positive, refer for neuropsych screen: WAIS/WISC, RBANS, SCT
- 3. If positive and complicated, refer for a full neuropsychological evaluation
- 4. Referred to BIAC when positive for lifetime history and when positive for deficits

Criminal Justice Entity	Total OSU Screened	<b>Positive Screens</b>	<b>Percent Positive</b>
Arapahoe County Probation	51	28	544.9%
Boulder County Jail (JBBS & JET Units)	369	215	58.2%
Denver County Jail (RISE unit)	1352	360	26.6%
Denver County Jail (Transition Unit)	732	449	61.3%
Larimer County Jail	480	287	59.7%
Adams County Probation (female offender)	31	30	96.7%
Adams County Probation (Veterans)	111	47	42.3%
Adams County Probation (sex offenders)	69	28	40.5%
Denver Drug Court	686	299	43.5%
Denver Juvenile Probation	445	82	18.4%
Jefferson County Recovery Court	81	49	60.4%
Total	4,407	1,854	42%

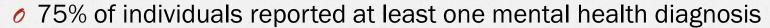




- On average 53% of youth screened were positive for risk factors of brain injury
- Of those positive, approximately 25% are referred for secondary neuropsychological screen
- Of those positive on the secondary screen, approximately 36% were referred for a full neuropsychological evaluation

# History

- 60% of individuals reported being a victim of childhood violence
  - 10% General population (Safe Horizons, 2014)
- 62% reported victimization in adulthood
  - 2% General population (Bureau of Justice Statistics, 2014)
- 39% reported at least one suicide attempt
- 54% reported school suspension
  - 26% of young men, 15% of young women (National Center for Education Statistics, 2015)
- 93% reported a history of substance abuse/misuse
  - 7% general population (National Institute on Drug Abuse, 2013)



- 19% general population (NAMI, 2013)
  - 73% Mood Disorders
    - 7% general population (NAMI, 2013)
  - 44% Anxiety Disorders
    - 18% general population (NAMI, 2013)
  - 17% Psychotic Disorders
    - 1% general population (NAMI, 2013)
- 54% take psychiatric medication
  - 26% of women, 15% of men (America's State of Mind, 2010)
  - 15% of Colorado residents (America's State of Mind, 2010)
    - 54% antidepressants
      - 23% of women, 16% of men (America's State of Mind, 2010)
    - 22% antipsychotics
    - 13% taking antidepressant AND antipsychotic drug



- Leveraged ACL results for additional funding
- State general fund pilot
- Justice Assistance Grant
- Next ACL grant

### **Products**

- AHEAD psycho-educational curriculum
- Toolkit for criminal justice personnel:
  <a href="https://www.mirecc.va.gov/visn19/tbi\_toolk">https://www.mirecc.va.gov/visn19/tbi\_toolk</a>
  <a href="mailto:it/justice/index.asp">it/justice/index.asp</a>
- Brain Injury Videos:
  <a href="https://biacolorado.org/education-for-professionals/">https://biacolorado.org/education-for-professionals/</a>



Glover, N., Gorgens, K., Meyer, L., Dettmer, J. & Lehto, M. (2018). Sensitivity and Specificity of the Ohio State University Traumatic Brain Injury Identification Method (OSU-TBI-ID) to Neuropsychological Impairment. *Criminal Justice and Behavior*, 46 (6).

Gorgens, K., Nagele, D., Dettmer, J. & Hooper, S. (2017). The Under-identification of Brain Injuries and the Relationship with Juvenile (and Eventually Adult) Criminal Justice Involvement. Brain Injury Professional, 14 (3), p. 24-26.

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US News and World Report:

https://www.usnews.com/news/best-states/articles/2018-08-22/denver-based-project-exposes-link-between-brain-injury-and-incarceration

https://www.usnews.com/news/best-states/articles/2018-08-22/how-a-colorado-jail-is-helping-inmates-who-have-suffered-traumatic-brain-injuries

- TED Talk: <a href="https://www.youtube.com/watch?v=j78G4Pr6C10">https://www.youtube.com/watch?v=j78G4Pr6C10</a>
- Newsweek: <a href="https://www.newsweek.com/2016/07/08/prison-inmate-traumatic-brain-injury-research-475615.html">https://www.newsweek.com/2016/07/08/prison-inmate-traumatic-brain-injury-research-475615.html</a>



- Alabama Criminal & Juvenile Justice Summits
  - Summary of recommendations
  - Common data elements project
- National Association of State Head Injury Administrators
  - Forging partnerships with DOJ
  - IPV and Criminal Justice legislation
- Center for Disease Control and Injury Prevention
- National Collaborative on Children's Brain Injury
- ACL Mentor/Partnership Initiative