

Introduction

A disproportionate number of youth and adults with Acquired Brain Injury (ABI) are involved in the criminal justice system. Without appropriate screening, treatment and community interventions, these individuals often re-offend and their level of involvement in the criminal justice system escalates. Historically, criminal justice reform has focused on efforts to influence an individual's thinking and attitudes - to help them understand the consequences of their behavior, to make restitution, to learn pro-social behaviors. However, such approaches generally fail to appreciate that individuals may have differences in their capacity to benefit from standardized interventions - especially if they have had an acquired brain injury. This poster highlights the progressive efforts in two states - Colorado and Pennsylvania - to make traditional interventions more effective using identification, neuropsychological screening, specialty interventions and community involvement.

Pennsylvania Model

NeuroResource Facilitation for Prison Inmates with Brain Injury to Improve Re-Entry

Adult Project Goals:

- Identify inmates who have brain injury
- Plan and develop services that will help them to be successful upon release from prison
- Coordinate with Re-Entry staff (Corrections, Parole, Voc Rehab)
- Follow up post-release to ensure implementation of the plan

ACL: Common Barriers to Access to TBI Care

- The absence of a TBI diagnosis or the assignment of an incorrect diagnosis
- A shortage of healthcare professionals who have training in TBI (specifically, an ability to identify TBI and treat the resulting symptoms)
- Lack of information regarding available services and supports
- TBI services spread across a variety of agencies resulting in services being difficult for families to find and/or navigate

Juvenile Project Goals

Provide brain injury education, training and consultation to:

- Detention Center Staff
- Families
- Schools /BrainSTEPS
- Probation Officers
- Residential Treatment Facilities
- Community Providers
- Link to Voc Rehab

Specific Objectives

- Identify youth with brain injury through screening and neurocognitive testing
- Utilize information gleaned from neurocognitive evaluation activities to plan and guide the delivery of interventions that will best address the needs of students with cognitive impairments
- Provide NeuroResource Facilitation to make connections to brain injury resources in the community

Screening for history of brain injury

- OSU-TBI-ID (Corrigan & Bogner, 2007)

Colorado Model

ACL Grant

- Target sites:
 - Three County Jail settings
 - Two Problem Solving Courts (Drug/Veteran)
 - Expanding to 6 additional sites
 - Three Probation settings (adult sex offender, adult female population, and juvenile probation)
 - Six state operated Division of Youth Corrections sites

Three Primary Goals

- Screen for brain injury (both lifetime history and neuropsychological deficits)
- Refer individuals who are screened positive for brain injury history and impairment for resource facilitation and case management support
- Build the capacity of criminal justice personnel and inmates/probationers to better understand brain injury

Screening for Lifetime History

- Ohio State University Traumatic Brain Injury Identification method modified (OSU TBI-ID; Corrigan & Bogner, 2007)

Screening for Neuropsychological Impairment

- Student Clinicians supervised by Clinical Psychologist
- Three effort tests, structured interview
- Automated Neuropsychological Assessment Measure (ANAM) Core Battery (Reeves, Winter, Bleiberg, & Kane, 2007) to screen for deficits that are consistent with brain injury
- Positive screen when scores are more than 2 standard deviations below the mean ("Clearly Below Average")
- Report and feedback

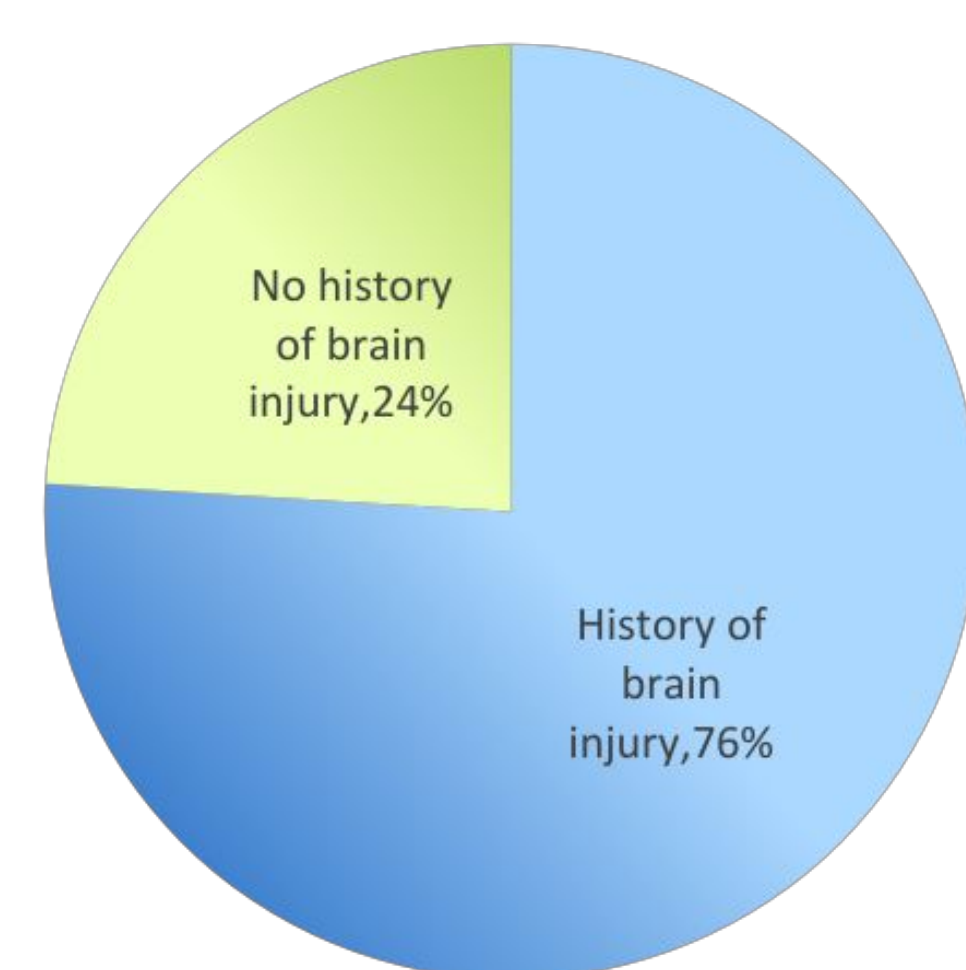
Division of Youth Corrections

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

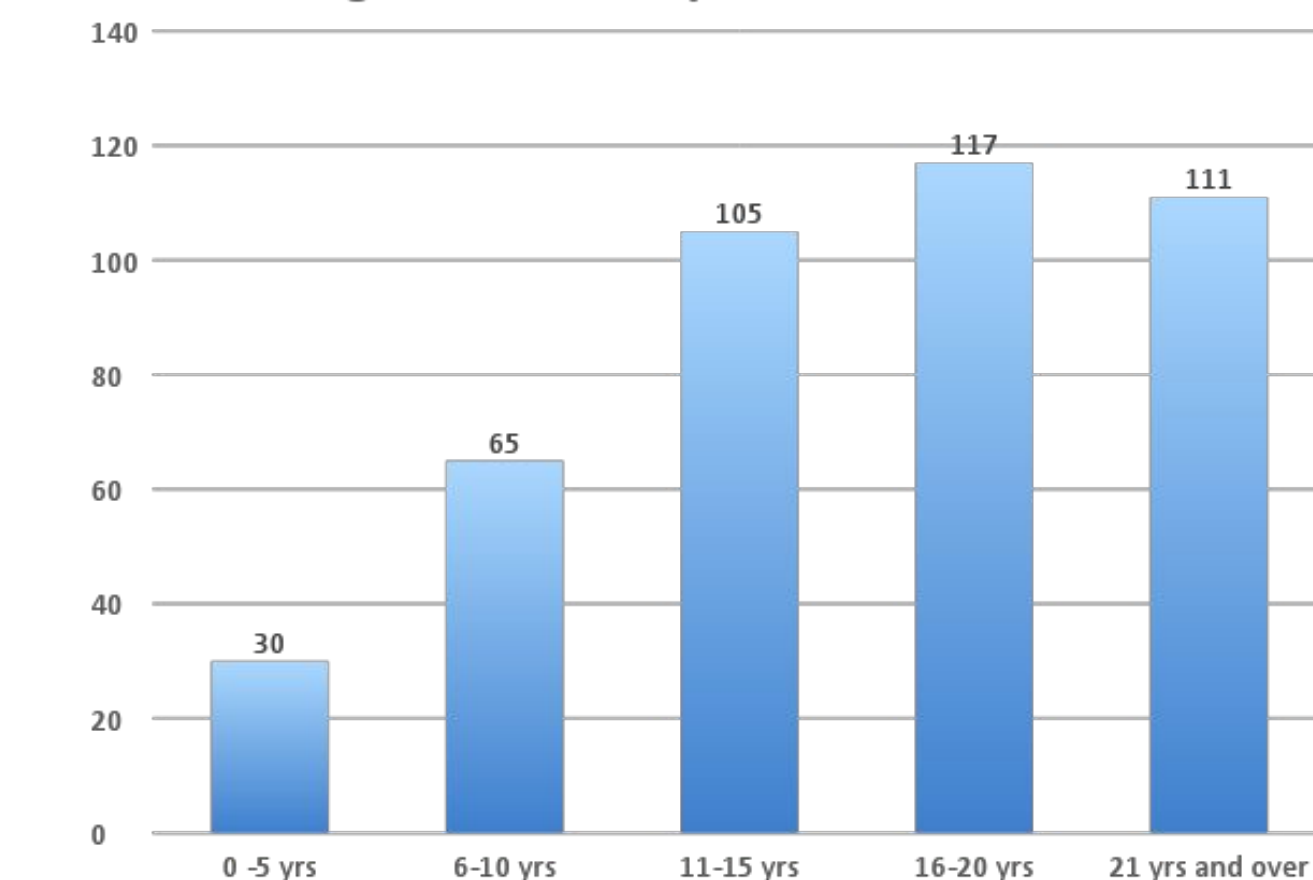
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Results

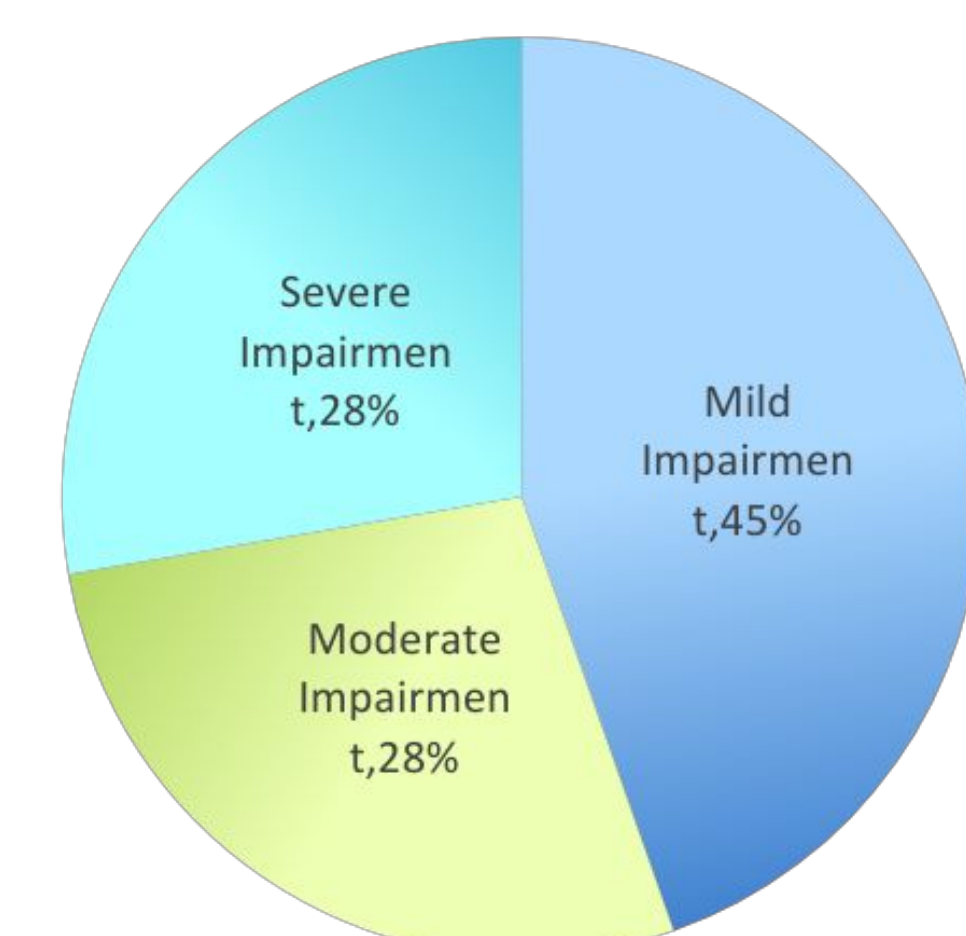
Adult Screening Results (n=158)



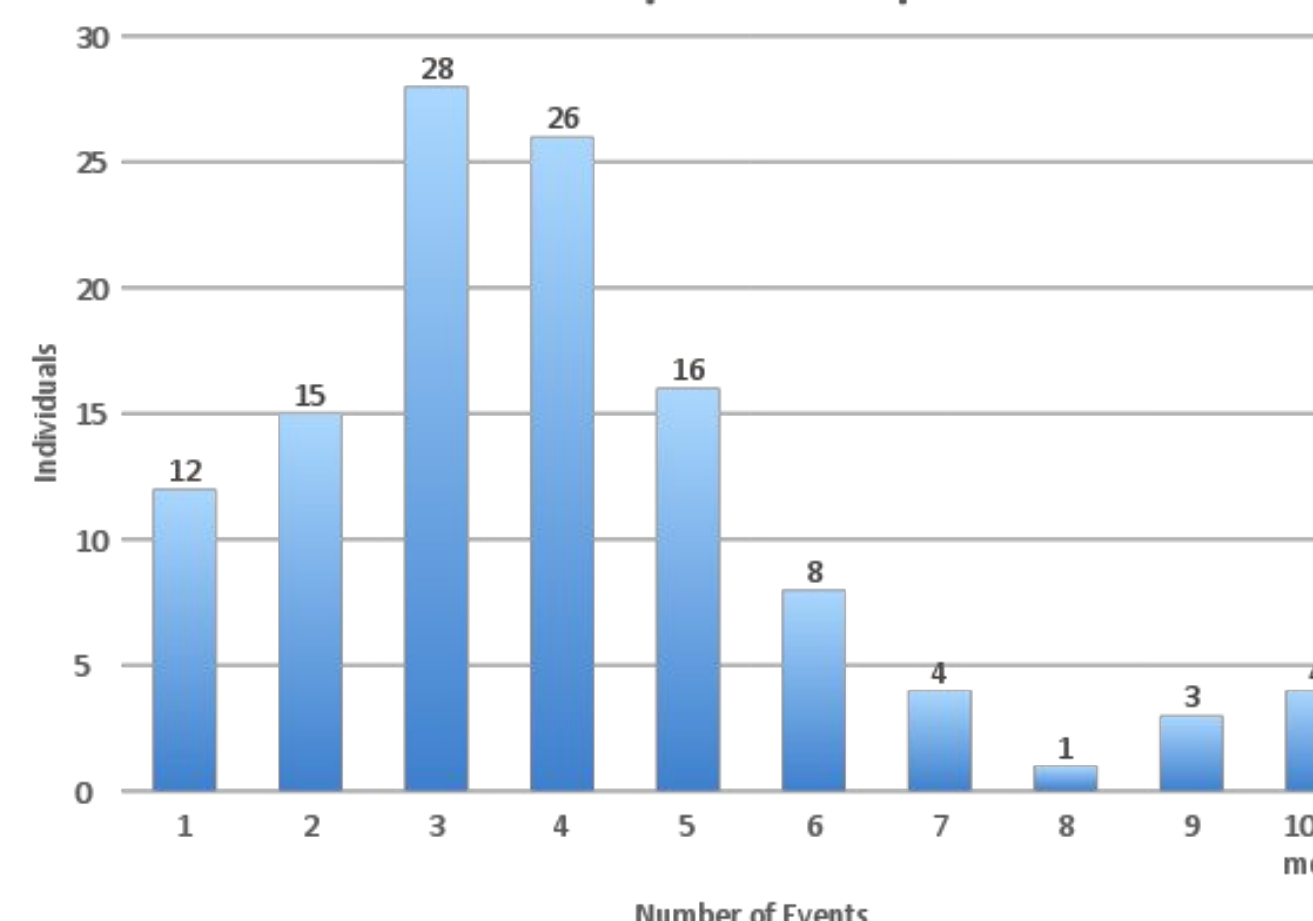
Ages at Which Episodes Occurred



NeuroCognitive Impairment (n=65)



Number of Episodes Reported



Juvenile Justice Current Results

Screening Demographics (n=321)

Ages ranged from 12 years to 20
80% male, 20% female

Screening Outcomes

52% Positive History BI Event
48% No History BI Event
Average # BI Events = 2.8 per juvenile

Cognitive Testing Outcomes

58% demonstrated cognitive impairments
42% within normal limits

Overall level of Impairment

Mild Impairment – 52%
Moderate Impairment – 26%
Severe Impairment – 22%

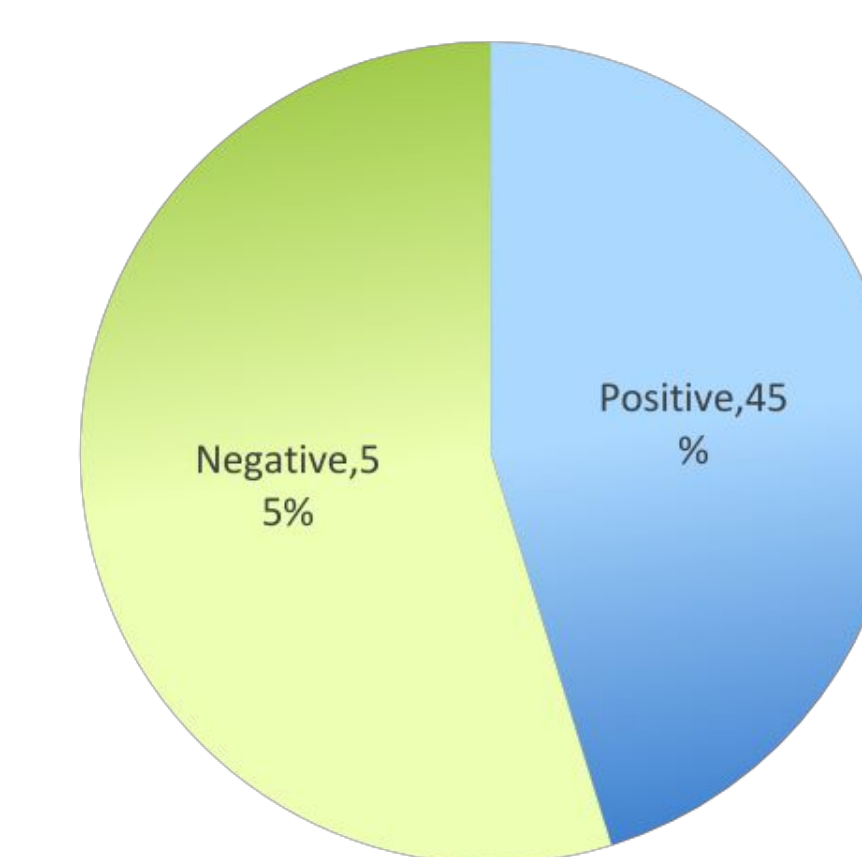
Next Steps

- Embed OSU-TBI-ID (Corrigan & Bogner, 2007) into Health Screening System used by contracted provider for most Juvenile Justice programs statewide
- Develop a program that can be embedded in Probation and implement statewide
- Make screening for brain injury a required service in schools, so that we can catch changes in brain function earlier, before they lead to drop out, substance abuse, and justice involvement

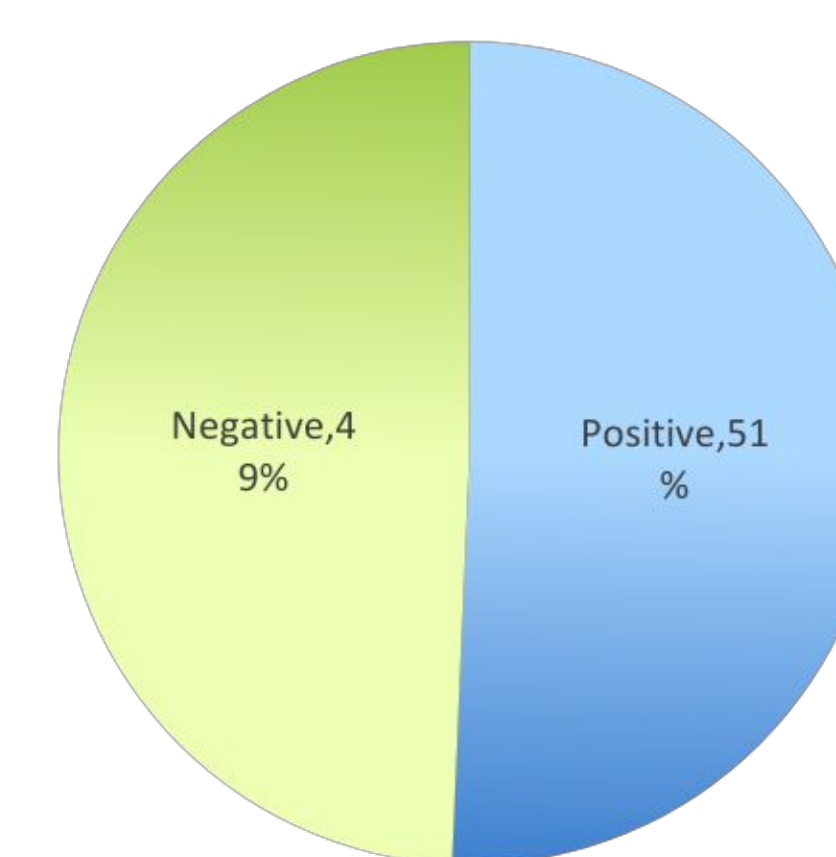
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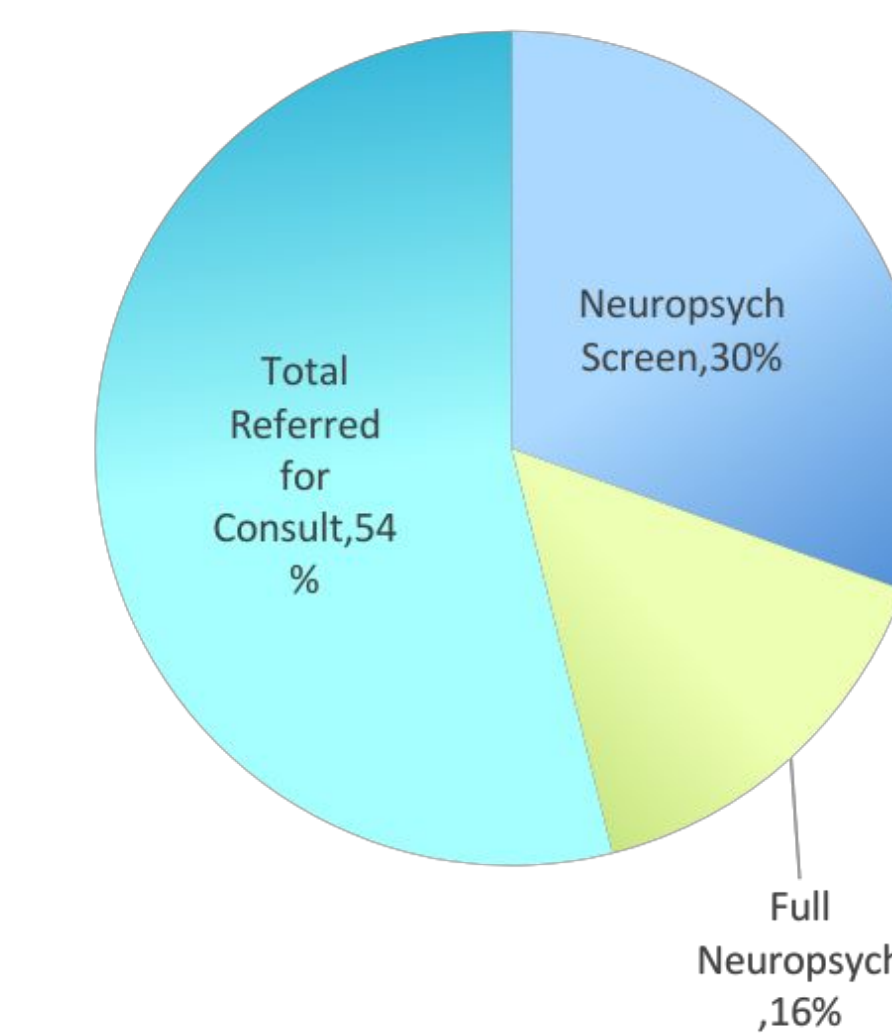
Adults: Lifetime History (n=849)



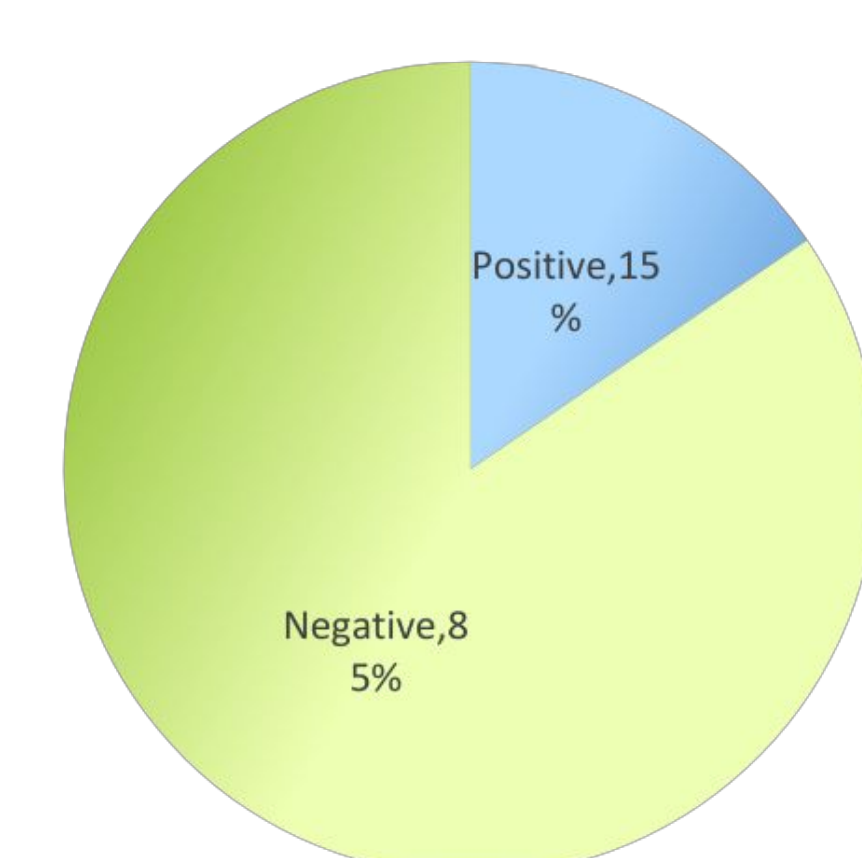
Division of Youth Corrections Lifetime History (n=148)



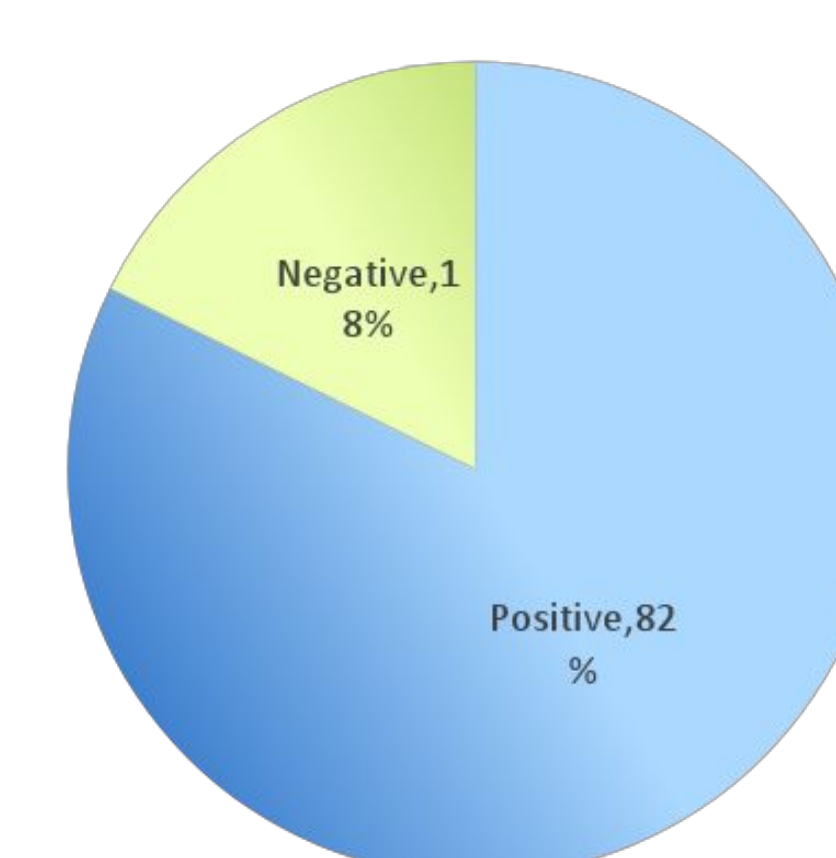
Division of Youth Corrections Neuropsych Screen (n=76 referred for consult)



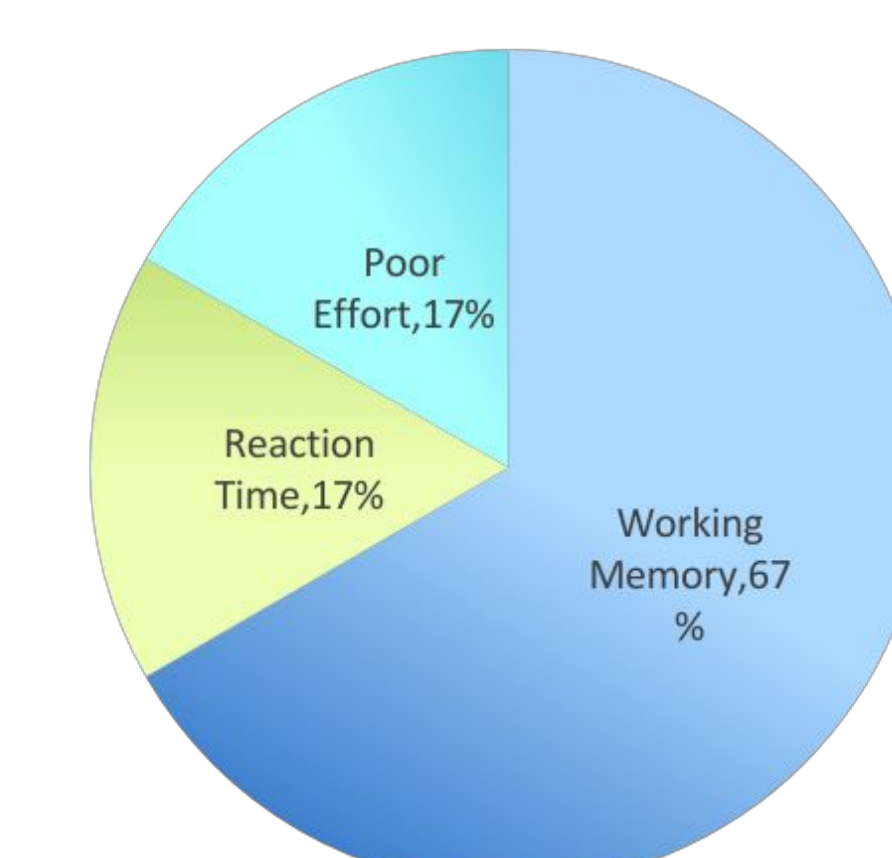
Juvenile Probation Lifetime History (n=226)



Adults: Neuropsych Impairment (n=164)



Cognitive Impairment



Juvenile Probation Overview

- 9 Screens Completed
- All males
- Average age 16
- Average number of injuries=54
- Average age of youngest injury=6 years

Division of Youth Corrections Overview

- Lifetime History screen = 353
- Screened positive = 141
- Referred for consult = 76
- Neuropsych screen = 43
- Neuropsychological evaluation = 22

Injuries Sustained in Childhood

- Age at time of injury
- Of 401 individuals screened, 301 sustained injuries before age of 21
- Not including NYC data
- Average age of youngest injury=9 years
- Average age at time of evaluation=37 years
- Demographics
- 209 males, 92 females
- 154 white, 68 Hispanic, 48 black, 11 Native Americans, 1 Native Hawaiian, 15 "mixed", 4 unknown