





According to the Individuals with Disabilities Education Act (IDEA):

A traumatic brain injury is "an acquired injury to the brain caused by an external physical force, resulting in total or partial functional disability or psychosocial impairment, or both, that adversely affects a child's educational performance." The definition continues to specify, "Traumatic brain injury applies to open or closed head injuries resulting in impairments in one or more areas, such as cognition; language; memory; attention; reasoning; abstract thinking; judgment; problemsolving; sensory, perceptual, and motor abilities; information processing; and speech. The term does not apply to brain injuries that are congenital or degenerative, or to brain injuries induced by birth trauma."







- disability in children and adults up
- suffer some form of TBI disability
- adolescents will survive a TBI that



In a Journal of Learning Disabilities article from 1991, Segalowitz and Brown found: "The hospital-reported incidence of mild head injury among children indicates a prevalence of 2% to 3% in high-schoolaged adolescents (14 to 18 years). Yet, our survey of 616 high school adolescents suggests that light and mild head injury (not necessarily leading to hospital admission) is almost 10 times this level. Despite the common notion that such injury is generally benign, we found significant relationships in our sample between reported head injury and hyperactivity, stuttering, mixed handedness, and dislike of mathematics."

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		Traumatic Brain Injury	
Maryland School Data		Total	Percent
viai ylana School Data	Total State	221	0.21%
According to the Manyland State	Allegany	5	0.36%
According to the Maryland State	Anne Arundel	26	0.31%
Department of Education (MSDE) there	Baltimore City	40	0.30%
repartment of Education (MSDE) there	Baltimore	36	0.25%
vere 221 students state wide receiving	Calvert	0	0.00%
	Caroline	2	0.34%
special education services with the	Carroll	0	0.00%
	Chadaa	10	0.42%
Ientification code of TBI.	Dombester		0.25%
	Frederick		0.11%
	Garrett	0	0.00%
	Harford	5	0.10%
 21E in the local education 	Howard	5	0.09%
	Kent	1	0.40%
agoncios	Montgomery	19	0.10%
agencies.	Prince George's	29	0.19%
 Control on the solution of the solution 	Queen Anne's	0	0.00%
 6 students with the disability 	St. Mary's	2	0.11%
code of TPL at the Manuland	Somerset	1	0.24%
coue of the at the Maryland	Markington		0.22%
School for the Blind	Washington		0.17%
JUIOUI IOI LIE DIIIU	Wornester	2	0.34%
	LEA Total	215	0.20%





The Numbers Don't Add Up

- The CDC estimates brain injury prevalence at 10%
- There is approximately 1.3 million school aged kids in Maryland
- That means 130,000 kids with brain injuries.
- If 5% suffer the onset of a disability that still equates to 6,500 individuals with a disability as the result of a brain injury!
- WE ONLY SERVE 221 STATEWIDE!!!

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Even though a student with a brain injury may exhibit behaviors and characteristics that mirror other disabilities, it is still essential that they are identified properly. Proper identification leads to more effective interventions and services that are appropriate. Many times TBI ends up being misidentified as emotional disturbance.





Best Practices...

Brain injury should be explored any time there is a concern with a student. This includes, but is not limited to:

- Screening meetings
- Child find meetings
- "Kid Talk" meetings • Individualized Education Plan (IEP)
- meetings • 504 Plan meetings
- Functional Behavioral Assessment (FBA) and Behavior Intervention Plan (BIP) meetings
- Parent/Teacher conferences
- During vision and hearing screenings



How to ask parents about history of brain injury

- Has your child ever had a concussion? Has your child ever hit their head and lost consciousness, even if for only a short time?
- Has your child ever received medical
- attention as a result of hitting their head? • Has your child ever hit their head and had a headache that lasted more than a couple hours?
- Has your child ever hit their head and had difficulty with thinking, emotions, or behavior, even if only for a little while?







TBI is an Epidemic!!!

TBI is present in 85% of traumatically injured children, either alone or with other injuries. $\!I$

Carli P, Orliaguet G (February 2004)

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Sources

- Carli P, Orliquant G. Severe traumatic brain injury in children. Lancet, 2004 Feb 21; 363 (9409): 584-5.
 Center for Disease Control and Prevention. (2019). TBI: Get the Facts. Retrieved from
- https://www.cdc.gov/traumaticbraininjury/get_the_facts.html
 Individuals with Disabilities Education Act. (2004) https://sites.ed.gov/idea/regs/b/a/300.8/c
- Maryland Special Education/Early Intervention Census Data and Related Tables (October 1, 2017).
 Maryland Department of Education. Baltimore, MD.
 http://www.marylandpublicschools.org/about/Documents/DCAA/SSP/20172018Student/
- Brown, Deborah & Segalowitz, Sidney J. Mild Head Injury as a Source of Developmental Disabilities. Journal of Learning Disabilities. Volume: 24 issue: 9, page(s): 551-559 Issue published: November 1, 1991
- U.S. Department of Education, National Center for Education Statistics. (2019). Digest of Education Statistics, 2017 (NCES 2018-070), Chapter 2.