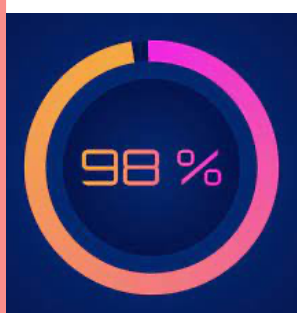


# THE IMPORTANCE OF CRANIAL INJURIES

## Brain Trauma Foundation (BTF)



Dedicated to improving the outcome of traumatic brain injury (TBI) patients worldwide by developing best practical guidelines, conducting clinical research, and educating medical professionals and consumers.



## Nonprofits on Cranial injuries

Most underreported, under diagnosed, and underestimated brain trauma. Most people with a concussion recover fully after the injury, and 98% of the people recover in 1-3 months post concussion.

## What is a Concussion?

A change in brain function following an external force to the head. This can be accompanied by temporary loss of consciousness and has measures of neurologic and cognitive dysfunction.



## Traumatic Brain Injury

Males- 1 time more likely to be hospitalized and 3 times more likely to die than females



Accounts for 90% of TBI with millions of trauma cases every year- Appx 214,110 TBI related hospitalizations in 2020 and 69,473 related deaths in 2021

This represents more than 586 TBI related hospitalizations and 190 TBI deaths per day

## Importance of Brain Trauma Foundations

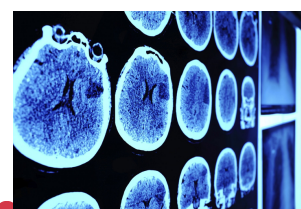


BTF is the leading the charge to better prevent, diagnose, and manage concussions  
Constantly seeks to improve diagnosis and treatment of TBI

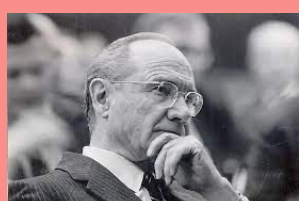
Funded in 2014 by the U.S Department of Defense and partner with the most prestigious research organizations

## Involvement of BTF

The work ranges from looking at the uses of quantitative measures via eye-tracking goggles to ensure visual attention, to being part of a multi-institutional research consortium that seeks to provide a stronger evidence base for brain injury care.



The tracking goggles were founded in 2015  
The consortium was founded by James S. McDonell



# BENEFITS OF BTF

## Foundation Benefits

BTI first evidence-based guidelines for managing severe TBI (comas) which was developed in 1995. This pivotal patient care was the result of collaboration between a national and international group of experts dedicated to finding the best evidence to improve patient outcomes.

1995



## Partnering with Schools

2002

Began awarding TBI research fellowships young neurosurgeons at top universities to advance their research and foster interest in cranial injuries

2002 BTF became the first organization to lead a University consortium to research neurobiology of mild TBI (concussions) with funding provided to the James S. McDonnell foundation.

Partnered with universities such as Stanford University, Oregon State University, Oregon Health and Science University, Portland State University, University of Southern California, and University of Southern California Santa Barbara

## BTF's Expansion

BTF after 2 decades has expanded to 6 additional guidelines.

2008 department of defense TBI technology award funded BTF's development of a portable device that detects concussions in seconds

2008



## Making a Change



BTF plans to continue to produce high quality guidelines

Working to maximize the utility of guidelines  
Extensive expert opinions being reintroduced



Rigorous evidence-based recommendations can be accompanied by helpful commentary that assists practitioners in applying these recommendations

Considering a paradigm enriched by as much evidence as possible

## Engaging in BTF

BTF is a 501(c)(3) nonprofit organization, any donation contributes to helping improve the outcome of those with brain injuries

Support allows help toward those suffering from brain injuries  
Conduct cutting edge research to advance the field of neuroscience



# MAKING A DIFFERENCE

## Making Donations



Can make brain trauma foundation your amazon smile charitable organization and BTF will receive 0.5% of every purchase made through smile.amazon.com

Good search as your primary website search browser and raise money each time you conduct a search

## Website Marketing

Allows access to their social media, allows donations, research, news, and availability to contact

Includes work of organization, funding of organization and indepth reasoning of purpose of organization



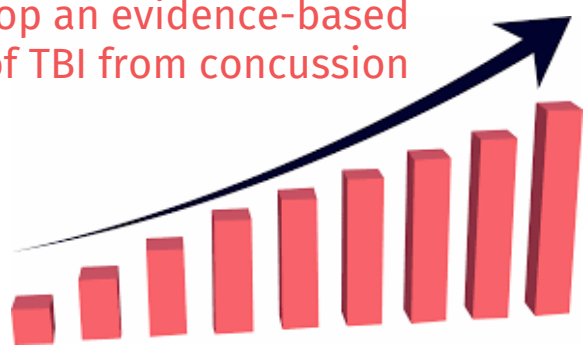
## Measuring Success

Conducts innovative clinical research and develops evidence-based guidelines that improve outcomes for people suffering from traumatic brain injuries

Employs the team within house scientists who can more quickly and effectively analyze data to perform ongoing updates to their guidelines

BTF is part of the Brain Trauma Evidence based consortium which aims to develop an evidence-based classification for the spectrum of TBI from concussion to coma

Able to accelerate research and implement change that impacts patients care



BTF leads the way in conducting clinical research about traumatic brain injuries

The eye tracking study is one of the largest TBI studies to date



Want to Make A  
Donation?



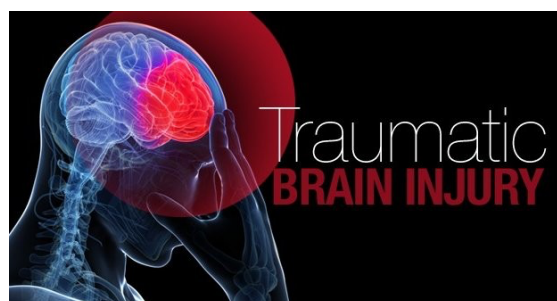
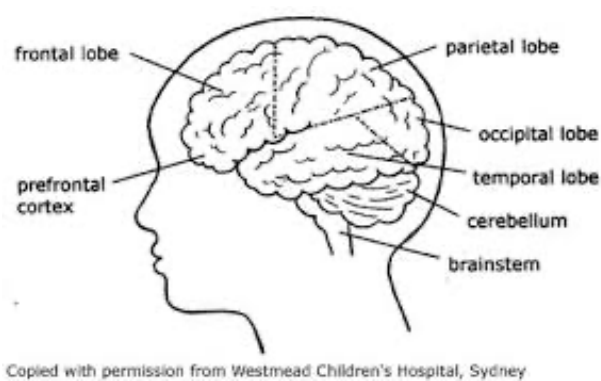


# CONCLUSION

## Vision of Outcomes

Founded in 1986, BTF has worked towards their vision of improving the outcomes of patient with traumatic brain injuries.

Foundation does this through the development of their best-in-class evidence-based guidelines, groundbreaking research partnerships, and educational research



# BTF Today



BTF still continues to focus on conducting innovative clinical research, updating its evidence-based guidelines and working toward improving outcomes for millions of people who suffer from traumatic brain injuries every year

# Today's Technology

Fully functioning and being applied and tested through BTF's eye-trac advance study, which tests high school and college athletes and military personnel using BTF's custom developed portable eye tracking device "dynamic visual synchronization goggles (DVS)"



For more info, scan 1 of 2

