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DEDICATED  
DUTY  
SERVICE  
BRAVE  
READY  
COMMITMENT  
COURAGEOUS  
SELFLESS  
INTEGRITY  
VALIANT

MISSION  
PATRIOTIC  
RESPECT  
ALWAYS  
COUNTRY  
SEMPER  
DEFEND

## Cohen Veterans Bioscience

**TRAUMATIC BRAIN INJURY (TBI)** is caused by a blow or jolt to the head or penetrating head injury that disrupts normal function of the brain.

TBIs can range from mild, with a brief change in mental status or consciousness (commonly called concussions), to severe, with an extended period of unconsciousness or memory loss.

### How Prevalent Are TBIs?



**153 AMERICANS DIE** from injuries that include TBI each day.<sup>1</sup>



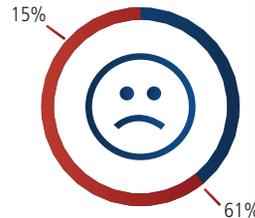
**5.3 MILLION AMERICANS**

live with a long-term disability due to a TBI.<sup>2</sup>

### What Conditions Co-Occur with TBI?



**23% OF OUTPATIENTS** with TBI reported suicide ideation.<sup>3</sup>



**15-61%** of individuals with a TBI also have depression.<sup>4</sup>

### How Do TBIs Affect Veterans?



**NEARLY 348,000 SERVICE MEMBERS** suffered a TBI from 2000 to the first quarter of 2016.<sup>5</sup>



**19% OF RETURNING SERVICE MEMBERS** from the wars in Iraq and Afghanistan reported a probable TBI during deployment.<sup>6</sup>

#### WHAT DIAGNOSTICS & TREATMENTS ARE AVAILABLE FOR TBI?

##### It can be difficult to officially diagnose TBI

Although a medical exam is the first step in diagnosing potential head injury, universally accepted “gold standard” diagnostic standards have not yet been established. In recent years, new diagnostics for mild TBI, or concussion, have come to the U.S. market.

##### What Treatment is Available?

FDA has not approved any specific treatments specifically for TBI. Current treatments are based on specific symptoms experienced including physical, cognitive, emotional, and sleep.

Cohen Veterans Bioscience (CVB) is leading the development, advocacy and implementation of a Brain Trauma Blueprint (BTB) to accelerate the progression toward a new generation of precision diagnostics and targeted therapeutics for trauma-related brain disorders including Traumatic Brain Injury.

#### ADDITIONAL INFORMATION & RESOURCES

If you have taken steps to end your life, call 911 immediately. Please use contact below if you are having suicide ideation:  
National Suicide Prevention Hotline – 1-800-273-8255  
National Sexual Assault Hotline – (800) 656-HOPE  
National Center for PTSD – Veterans Crisis Line – (800) 273-8255  
Women’s Veterans Call Center – 1-855-VA-Women

##### Learn more about Traumatic Brain Injury:

[www.cdc.gov/TraumaticBrainInjury/index.html](http://www.cdc.gov/TraumaticBrainInjury/index.html)  
[www.biausa.org/brain-injury/about-brain-injury](http://www.biausa.org/brain-injury/about-brain-injury)

**Visit [CohenVeteransBioscience.org](http://CohenVeteransBioscience.org) to learn about our TBI research programs**

Cohen Veterans Bioscience is a national nonprofit 501(c)(3) public charity research organization dedicated to fast-tracking the development of diagnostic tests and personalized therapeutics for the millions of veterans and civilians who suffer the devastating effects of trauma-related and other brain disorders.