



## DoD Numbers for Traumatic Brain Injury Worldwide – Totals

2016

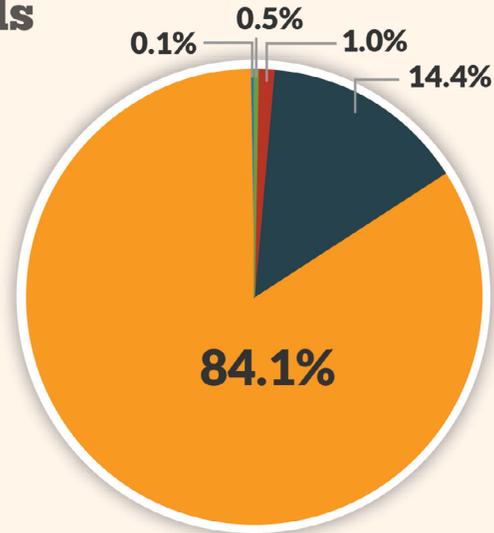
Penetrating	92
Severe	184
Moderate	2,633
Mild	15,420
Not Classifiable	13

**Total - All Severities 18,342**

Source: Defense Medical Surveillance System (DMSS), Theater Medical Data Store (TMDS) provided by the Armed Forces Health Surveillance Center (AFHSB)

Prepared by the Defense and Veterans Brain Injury Center (DVBIC)

*\*Percentages do not add up to 100% due to rounding*



2016, as of June 21, 2018

Effective October 2015, the International Classification of Diseases was updated. With the improved information, more moderate traumatic brain injuries can be counted. Previously, some cases were categorized as “unclassifiable” severity due to more limited surveillance information. Also in 2015, the Assistant Secretary of Defense clarified the TBI case definition. A subsequent review found that some of the remaining “unclassifiable” cases were likely moderate TBI. This change also will contribute to higher counts of moderate TBI surveillance cases.

Worldwide numbers represent medical diagnoses of TBI that occurred anywhere U.S. forces are located including the continental United States since 2000.

**Concussion/Mild TBI is characterized by the following:** Confused or disoriented state which lasts less than 24 hours; or loss of consciousness for up to 30 minutes; or memory loss lasting less than 24 hours. Excludes penetrating TBI. A CT scan is not indicated for most patients with a Mild TBI. If obtained, it is normal.

**Moderate TBI is characterized by the following:** Confused or disoriented state which lasts more than 24 hours; or loss of consciousness for more than 30 minutes, but less than 24 hours; or memory loss lasting greater than 24 hours but less than seven days; or meets criteria for Mild TBI except an abnormal CT scan is present. Excludes penetrating TBI. A structural brain imaging study may be normal or abnormal.

**Severe TBI is characterized by the following:** Confused or disoriented state which lasts more than 24 hours; or loss of consciousness for more than 24 hours; or memory loss for more than seven days. Excludes penetrating TBI. A structural brain imaging study may be normal but usually is abnormal.

**Penetrating TBI, or open head injury, is characterized by the following:** A head injury in which the scalp, skull and dura mater (the outer layer of the meninges) are penetrated. Penetrating injuries can be caused by high-velocity projectiles or objects of lower velocity such as knives, or bone fragments from a skull fracture that are driven into the brain.

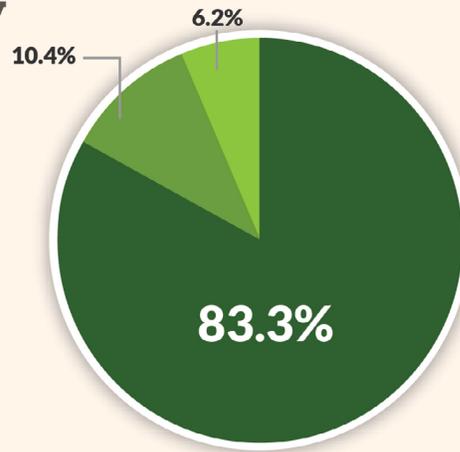


## DoD Numbers for Traumatic Brain Injury Worldwide – Army

2016

Active	9,364
Guard	1,171
Reserve	702

**Total - Army 11,237**



Source: Defense Medical Surveillance System (DMSS), Theater Medical Data Store (TMDS) provided by the Armed Forces Health Surveillance Branch (AFHSB)

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2016, as of June 21, 2018

Service	Component	Severity	Diagnosed
Army	Active	Penetrating	38
		Severe	74
		Moderate	1,194
		Mild	8,053
		Not Classifiable	5
	Guard	Penetrating	9
		Severe	13
		Moderate	216
		Mild	930
		Not Classifiable	3
	Reserve	Penetrating	5
		Severe	10
		Moderate	119
		Mild	566
		Not Classifiable	2

2016, as of June 21, 2018

Source: Defense Medical Surveillance System (DMSS) and Theater Medical Data Store (TMDS) provided by the Armed Forces Health Surveillance Branch (AFHSB)  
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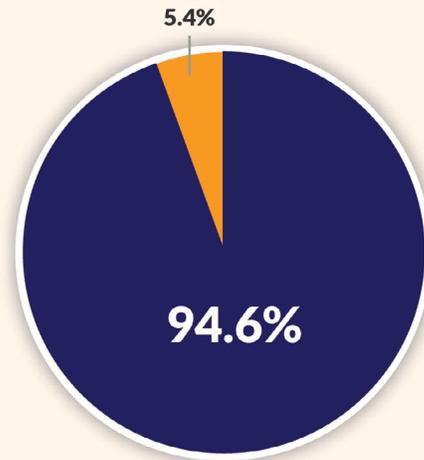
## DoD Numbers for Traumatic Brain Injury Worldwide – Navy

2016

Active	2,333
Reserve	132

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**Total - Navy** 2,465



Source: Defense Medical Surveillance System (DMSS), Theater Medical Data Store (TMDS) provided by the Armed Forces Health Surveillance Branch (AFHSB)

Prepared by the Defense and Veterans Brain Injury Center (DVBIC)

2016, as of June 21, 2018

Service	Component	Severity	Diagnosed
Navy	Active	Penetrating	11
		Severe	27
		Moderate	381
		Mild	1,912
		Not Classifiable	2
	Reserve	Penetrating	1
		Severe	-
		Moderate	29
		Mild	102
		Not Classifiable	-

2016, as of June 21, 2018

Source: Defense Medical Surveillance System (DMSS) and Theater Medical Data Store (TMDS) provided by the Armed Forces Health Surveillance Branch (AFHSB)

Prepared by the Defense and Veterans Brain Injury Center (DVBIC)



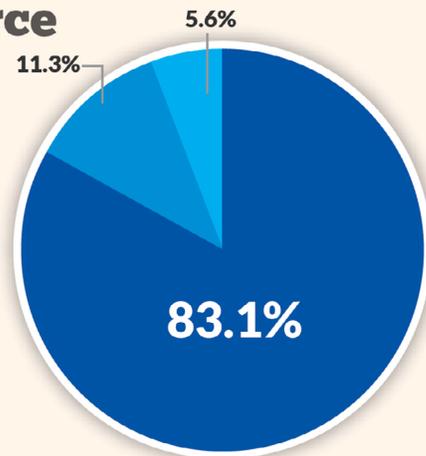
# DoD Numbers for Traumatic Brain Injury Worldwide – Air Force

2016

<span style="color: #0056b3;">■</span> Active	1,891
<span style="color: #00a0e3;">■</span> Guard	258
<span style="color: #00bfff;">■</span> Reserve	127

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**Total - Air Force** **2,276**



Source: Defense Medical Surveillance System (DMSS), Theater Medical Data Store (TMDS) provided by the Armed Forces Health Surveillance Branch (AFHSB)

Prepared by the Defense and Veterans Brain Injury Center (DVBIC)

2016, as of June 21, 2018

Service	Component	Severity	Diagnosed
Air Force	Active	Penetrating	6
		Severe	25
		Moderate	289
		Mild	1,570
		Not Classifiable	1
	Guard	Penetrating	-
		Severe	2
		Moderate	48
		Mild	208
		Not Classifiable	-
	Reserve	Penetrating	1
		Severe	4
		Moderate	28
		Mild	94
		Not Classifiable	-

2016, as of June 21, 2018

Source: Defense Medical Surveillance System (DMSS) and Theater Medical Data Store (TMDS) provided by the Armed Forces Health Surveillance Branch (AFHSB)

Prepared by the Defense and Veterans Brain Injury Center (DVBIC)



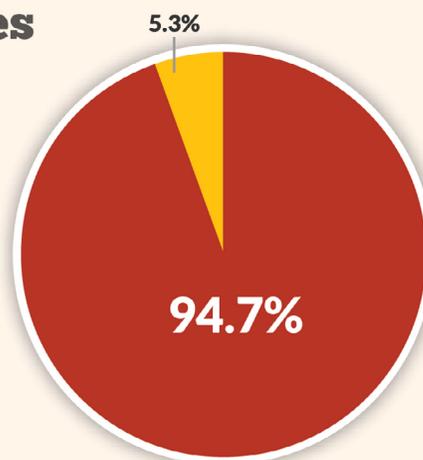
## DoD Numbers for Traumatic Brain Injury Worldwide – Marines

2016

Active	2,238
Reserve	126

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**Total - Marines**                      **2,364**



Source: Defense Medical Surveillance System (DMSS), Theater Medical Data Store (TMDS) provided by the Armed Forces Health Surveillance Branch (AFHSB)

Prepared by the Defense and Veterans Brain Injury Center (DVBIC)

2016, as of June 21, 2018

Service	Component	Severity	Diagnosed
Marines	Active	Penetrating	21
		Severe	29
		Moderate	304
		Mild	1,884
		Not Classifiable	-
	Reserve	Penetrating	-
		Severe	-
		Moderate	25
		Mild	101
		Not Classifiable	-

2016, as of June 21, 2018

Source: Defense Medical Surveillance System (DMSS) and Theater Medical Data Store (TMDS) provided by the Armed Forces Health Surveillance Branch (AFHSB)

Prepared by the Defense and Veterans Brain Injury Center (DVBIC)