



## DoD Numbers for Traumatic Brain Injury Worldwide – Totals

2001

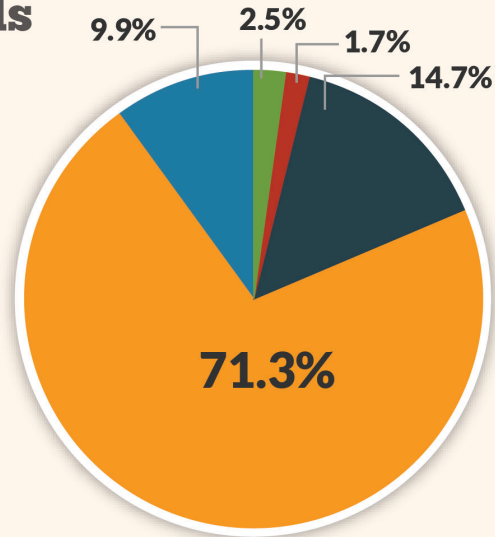
Penetrating	288
Severe	195
Moderate	1,706
Mild	8,282
Not Classifiable	1,148

**Total - All Severities 11,619**

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*



2001, 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.

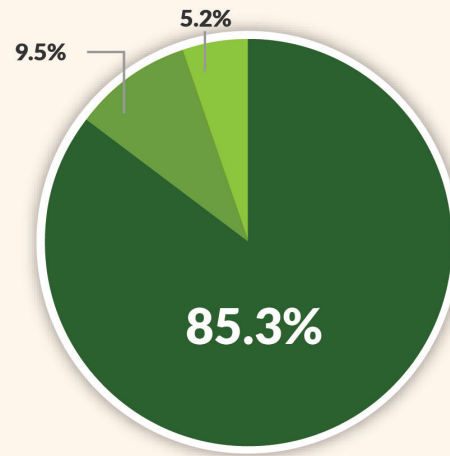


## DoD Numbers for Traumatic Brain Injury Worldwide – Army

2001

Active	4,261
Guard	476
Reserve	258

**Total - Army** 4,995



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

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2000, as of June 21, 2018

Service	Component	Severity	Diagnosed
Army	Active	Penetrating	97
		Severe	79
		Moderate	547
		Mild	3,100
		Not Classifiable	438
	Guard	Penetrating	11
		Severe	9
		Moderate	51
		Mild	365
		Not Classifiable	40
	Reserve	Penetrating	5
		Severe	4
		Moderate	37
		Mild	194
		Not Classifiable	18

2001, 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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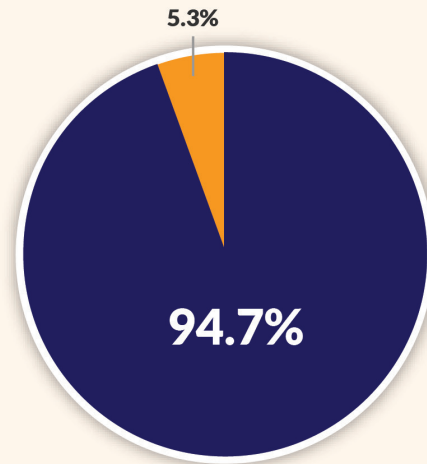
## DoD Numbers for Traumatic Brain Injury Worldwide – Navy

2001

Active	2331
Reserve	130

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**Total - Navy** 2,461



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

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2001, as of June 21, 2018

Service	Component	Severity	Diagnosed
Navy	Active	Penetrating	72
		Severe	38
		Moderate	352
		Mild	1528
		Not Classifiable	341
	Reserve	Penetrating	2
		Severe	2
		Moderate	19
		Mild	91
		Not Classifiable	16

2001, 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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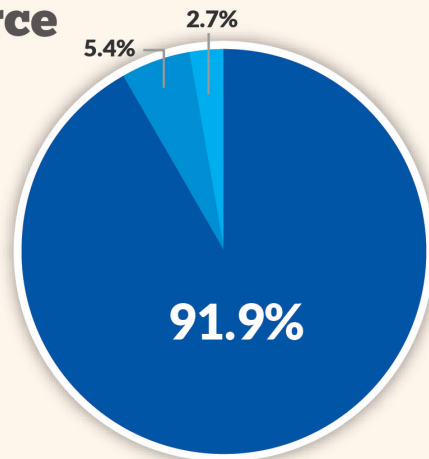
# DoD Numbers for Traumatic Brain Injury Worldwide – Air Force

2001

<span style="color: #0056b3;">■</span> Active	2,066
<span style="color: #00a0e3;">■</span> Guard	122
<span style="color: #00bfff;">■</span> Reserve	60

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**Total - Air Force** **2,248**



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)

2001, as of June 21, 2018

Service	Component	Severity	Diagnosed
Air Force	Active	Penetrating	48
		Severe	25
		Moderate	290
		Mild	1,566
		Not Classifiable	137
	Guard	Penetrating	3
		Severe	1
		Moderate	20
		Mild	87
		Not Classifiable	11
	Reserve	Penetrating	1
		Severe	-
		Moderate	12
		Mild	41
		Not Classifiable	6

2001, 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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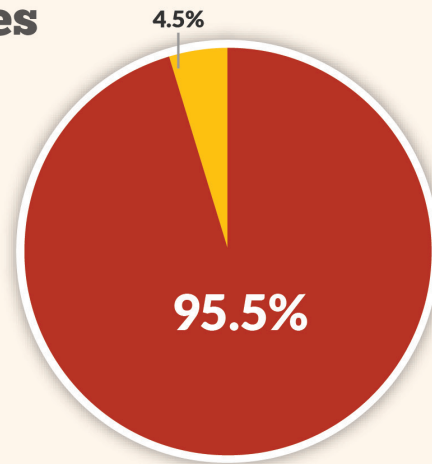
## DoD Numbers for Traumatic Brain Injury Worldwide – Marines

2001

Active	1,829
Reserve	86

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**Total - Marines** **1,915**



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)

2001, as of June 21, 2018

Service	Component	Severity	Diagnosed
Marines	Active	Penetrating	47
		Severe	37
		Moderate	368
		Mild	1,240
		Not Classifiable	137
	Reserve	Penetrating	2
		Severe	-
		Moderate	10
		Mild	70
		Not Classifiable	4

2001, 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)