



## DoD Numbers for Traumatic Brain Injury Worldwide – Totals

2004

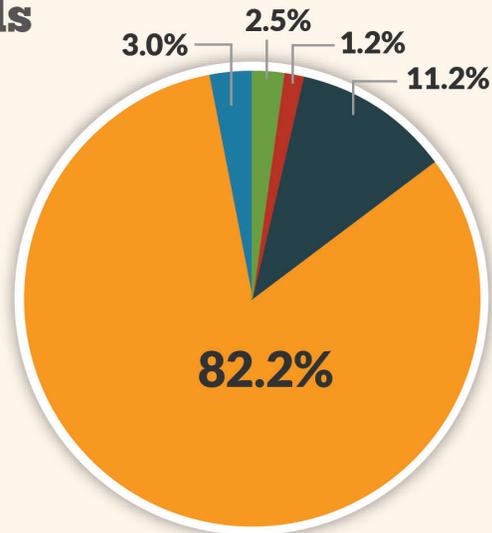
Penetrating	359
Severe	169
Moderate	1,620
Mild	11,888
Not Classifiable	432

**Total - All Severities 14,468**

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



2004, 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.

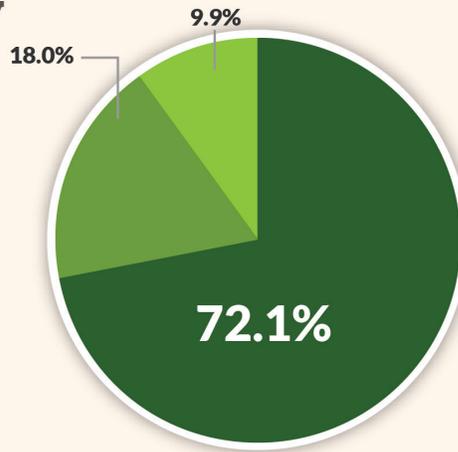


## DoD Numbers for Traumatic Brain Injury Worldwide – Army

2004

Active	4,857
Guard	1,215
Reserve	669

**Total - Army** 6,741



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

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2004, as of June 21, 2018

Service	Component	Severity	Diagnosed
Army	Active	Penetrating	124
		Severe	66
		Moderate	537
		Mild	3,979
		Not Classifiable	151
	Guard	Penetrating	37
		Severe	9
		Moderate	146
		Mild	982
		Not Classifiable	41
	Reserve	Penetrating	16
		Severe	11
		Moderate	87
		Mild	533
		Not Classifiable	22

2004, 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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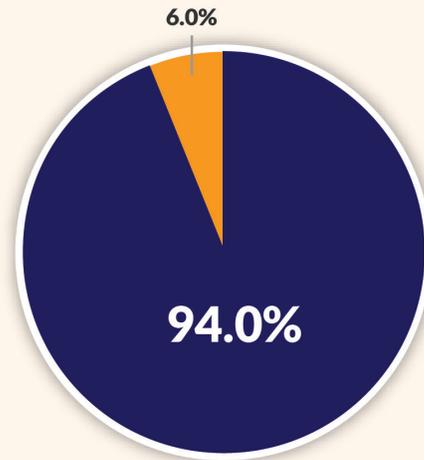
## DoD Numbers for Traumatic Brain Injury Worldwide – Navy

2004

Active	2,643
Reserve	169

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**Total - Navy** 2,812



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

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2004, as of June 21, 2018

Service	Component	Severity	Diagnosed
Navy	Active	Penetrating	55
		Severe	33
		Moderate	274
		Mild	2213
		Not Classifiable	68
	Reserve	Penetrating	9
		Severe	2
		Moderate	24
		Mild	132
		Not Classifiable	2

2004, 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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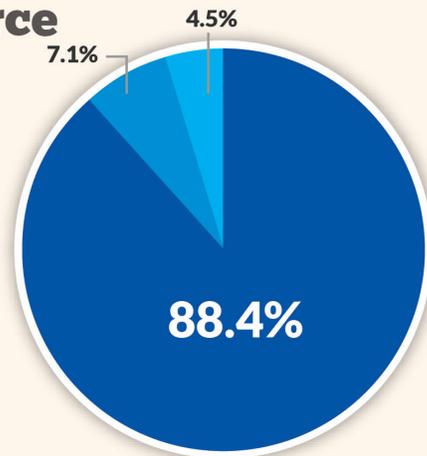
# DoD Numbers for Traumatic Brain Injury Worldwide – Air Force

2004

<span style="color: #0056b3;">■</span> Active	2,439
<span style="color: #0099cc;">■</span> Guard	197
<span style="color: #00bfff;">■</span> Reserve	123

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**Total - Air Force** **2,759**



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)

2004, as of June 21, 2018

Service	Component	Severity	Diagnosed
Air Force	Active	Penetrating	36
		Severe	23
		Moderate	232
		Mild	2080
		Not Classifiable	68
	Guard	Penetrating	3
		Severe	3
		Moderate	13
		Mild	173
		Not Classifiable	5
	Reserve	Penetrating	3
		Severe	1
		Moderate	8
		Mild	107
		Not Classifiable	4

2004, 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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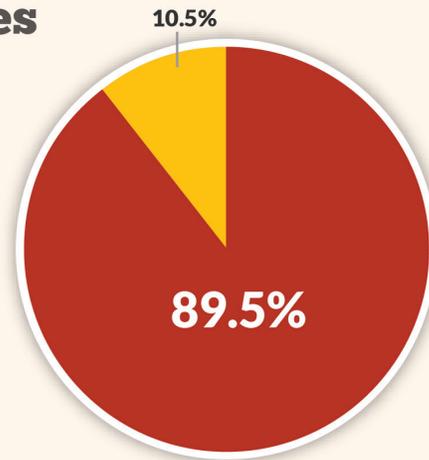
## DoD Numbers for Traumatic Brain Injury Worldwide – Marines

2004

<span style="color: red;">■</span> Active	1,929
<span style="color: yellow;">■</span> Reserve	227

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**Total - Marines** **2,156**



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)

2004, as of June 21, 2018

Service	Component	Severity	Diagnosed
Marines	Active	Penetrating	68
		Severe	20
		Moderate	267
		Mild	1508
		Not Classifiable	66
	Reserve	Penetrating	8
		Severe	1
		Moderate	32
		Mild	181
		Not Classifiable	5

2004, 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)