



DoD Numbers for Traumatic Brain Injury Worldwide – Totals

2011

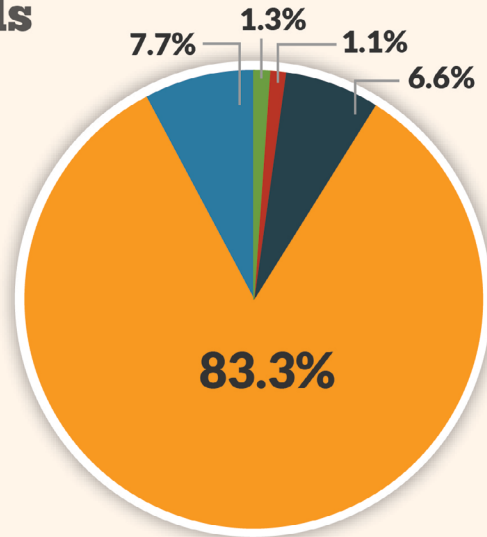
Penetrating	427
Severe	374
Moderate	2,168
Mild	27,335
Not Classifiable	2,530

Total - All Severities 32,834

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*



2011, 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.

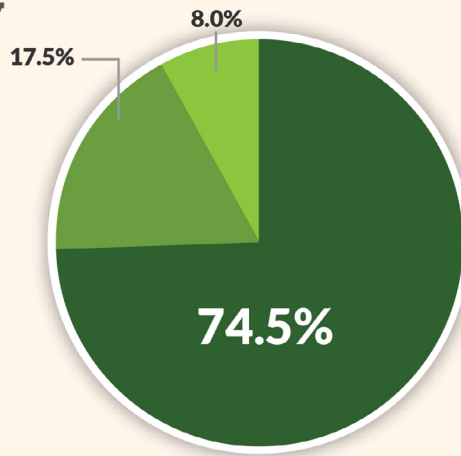


DoD Numbers for Traumatic Brain Injury Worldwide – Army

2011

Active	15,759
Guard	3,695
Reserve	1,699

Total - Army 21,153



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

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2011, as of June 21, 2018

Service	Component	Severity	Diagnosed
Army	Active	Penetrating	246
		Severe	155
		Moderate	1,046
		Mild	13,074
		Not Classifiable	1,238
	Guard	Penetrating	41
		Severe	32
		Moderate	221
		Mild	2,852
		Not Classifiable	549
	Reserve	Penetrating	19
		Severe	24
		Moderate	102
		Mild	1,353
		Not Classifiable	201

2011, as of June 21, 2018

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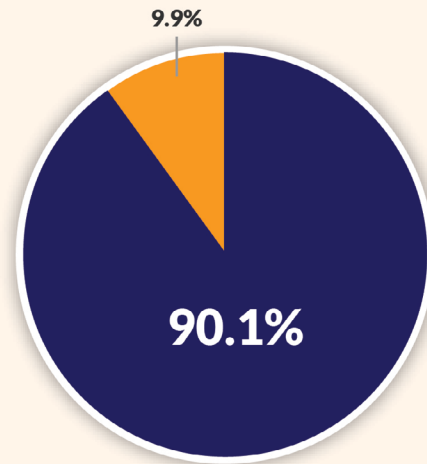


DoD Numbers for Traumatic Brain Injury Worldwide – Navy

2011

Active	2,729
Reserve	301

Total - Navy 3,030



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2011, as of June 21, 2018

Service	Component	Severity	Diagnosed
Navy	Active	Penetrating	23
		Severe	24
		Moderate	179
		Mild	2,387
		Not Classifiable	116
	Reserve	Penetrating	3
		Severe	1
		Moderate	21
		Mild	259
		Not Classifiable	17

2011, as of June 21, 2018

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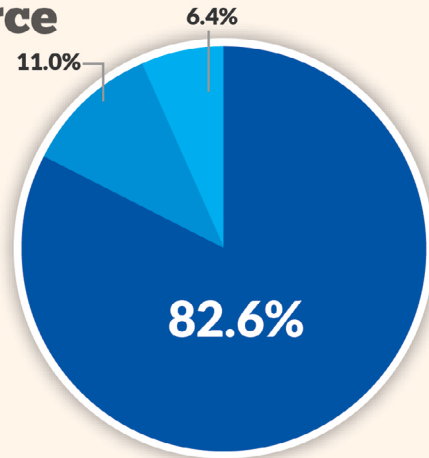


DoD Numbers for Traumatic Brain Injury Worldwide – Air Force

2011

■ Active	2,920
■ Guard	387
■ Reserve	227

Total - Air Force **3,534**



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

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2011, as of June 21, 2018

Service	Component	Severity	Diagnosed
Air Force	Active	Penetrating	32
		Severe	25
		Moderate	167
		Mild	2,600
		Not Classifiable	96
	Guard	Penetrating	7
		Severe	-
		Moderate	31
		Mild	336
		Not Classifiable	13
	Reserve	Penetrating	4
		Severe	2
		Moderate	11
		Mild	202
		Not Classifiable	8

2011, 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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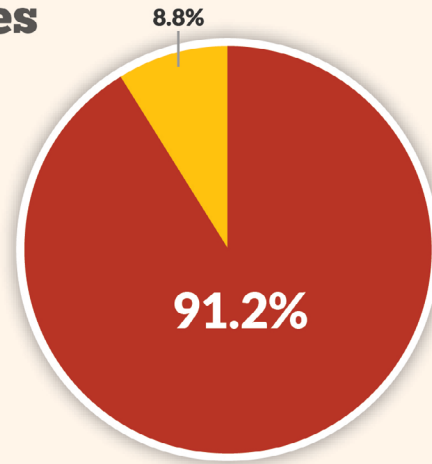


DoD Numbers for Traumatic Brain Injury Worldwide – Marines

2011

Active	4,666
Reserve	451

Total - Marines **5,117**



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)

2011, as of June 21, 2018

Service	Component	Severity	Diagnosed
Marines	Active	Penetrating	48
		Severe	97
		Moderate	359
		Mild	3,902
		Not Classifiable	260
	Reserve	Penetrating	4
		Severe	14
		Moderate	31
		Mild	370
		Not Classifiable	32

2011, 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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