



DoD Numbers for Traumatic Brain Injury Worldwide – Totals

2009

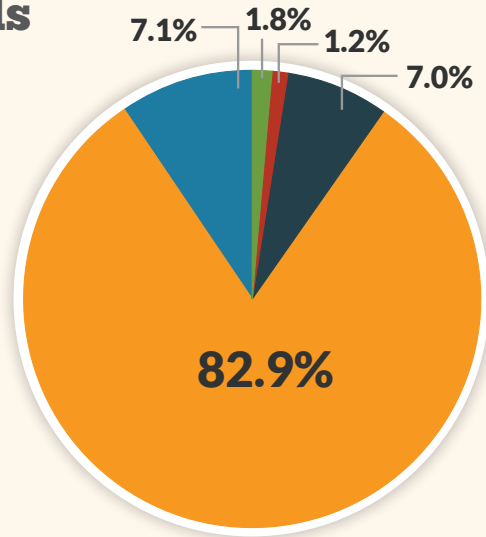
Penetrating	512
Severe	354
Moderate	2,018
Mild	23,948
Not Classifiable	2,061

Total - All Severities 28,893

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 may not add up to 100% due to rounding*



2009, as of Feb 17, 2017

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.

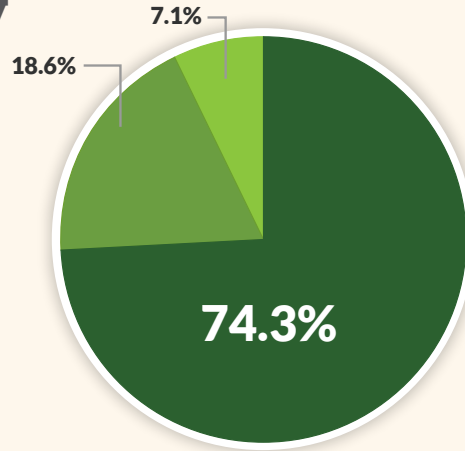


DoD Numbers for Traumatic Brain Injury Worldwide – Army

2009

Active	14,006
Guard	3,508
Reserve	1,330

Total - Army 18,844



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

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2009, as of Feb 17, 2017

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Service	Component	Severity	Diagnosed
Army	Active	Penetrating	329
		Severe	193
		Moderate	933
		Mild	11,090
		Not Classifiable	1,461
	Guard	Penetrating	67
		Severe	49
		Moderate	253
		Mild	2,927
		Not Classifiable	212
	Reserve	Penetrating	17
		Severe	15
		Moderate	93
		Mild	1,097
		Not Classifiable	108

2009, as of 17 Feb, 2017

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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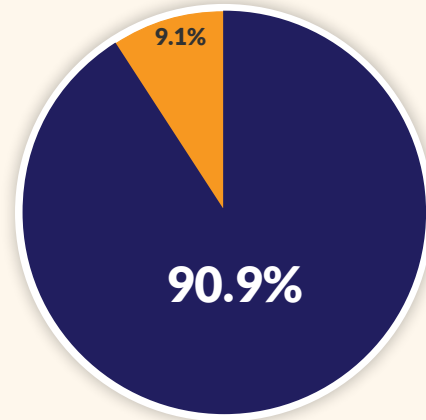


DoD Numbers for Traumatic Brain Injury Worldwide – Navy

2009

Active	2,736
Reserve	275

Total - Navy **3,011**



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

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2009, as of Feb 17, 2017

Service	Component	Severity	Diagnosed
Navy	Active	Penetrating	25
		Severe	18
		Moderate	173
		Mild	2,441
		Not Classifiable	79
	Reserve	Penetrating	3
		Severe	3
		Moderate	28
		Mild	228
		Not Classifiable	13

2009, as of 17 Feb, 2017

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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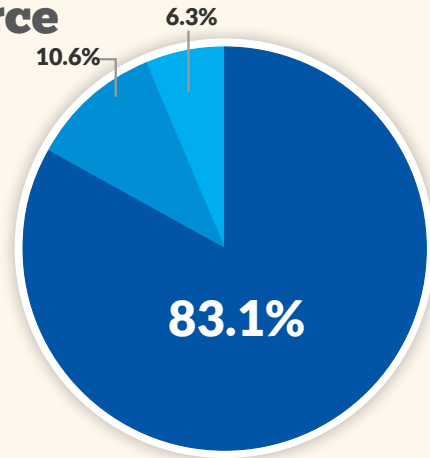


DoD Numbers for Traumatic Brain Injury Worldwide – Air Force

2009

■ Active	2,690
■ Guard	344
■ Reserve	203

Total - Air Force **3,237**



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)

2009, as of Feb 17, 2017

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Service	Component	Severity	Diagnosed
Air Force	Active	Penetrating	24
		Severe	22
		Moderate	201
		Mild	2,394
		Not Classifiable	49
	Guard	Penetrating	2
		Severe	2
		Moderate	27
		Mild	304
		Not Classifiable	9
	Reserve	Penetrating	1
		Severe	4
		Moderate	16
		Mild	177
		Not Classifiable	5

2009, as of 17 Feb, 2017

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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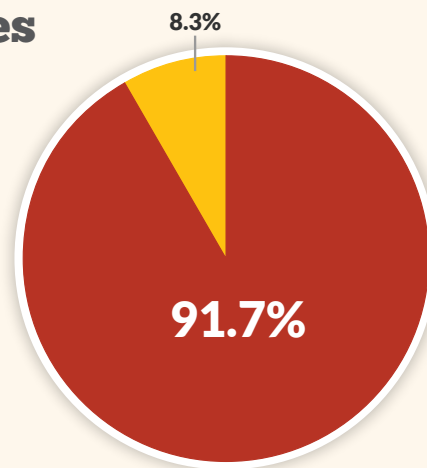


DoD Numbers for Traumatic Brain Injury Worldwide – Marines

2009

■ Active	3,487
■ Reserve	314

Total - Marines **3,801**



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)

2009, as of Feb 17, 2017

**Percentages may not add up to 100% due to rounding*

Service	Component	Severity	Diagnosed
Marines	Active	Penetrating	42
		Severe	46
		Moderate	272
		Mild	3,019
		Not Classifiable	108
	Reserve	Penetrating	2
		Severe	2
		Moderate	22
		Mild	271
		Not Classifiable	17

2009, as of 17 Feb, 2017

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)