



## DoD Numbers for Traumatic Brain Injury Worldwide – Totals

2000 - 2018 Q1

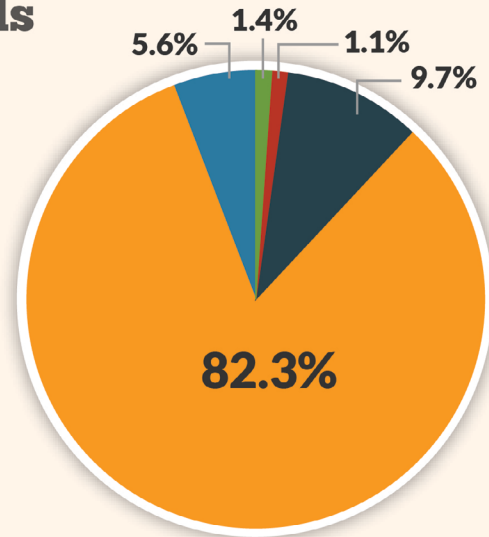
Penetrating	5,215
Severe	4,067
Moderate	37,424
Mild	315,897
Not Classifiable	21,344

**Total - All Severities 383,947**

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*



2000 - 2018 Q1, 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.

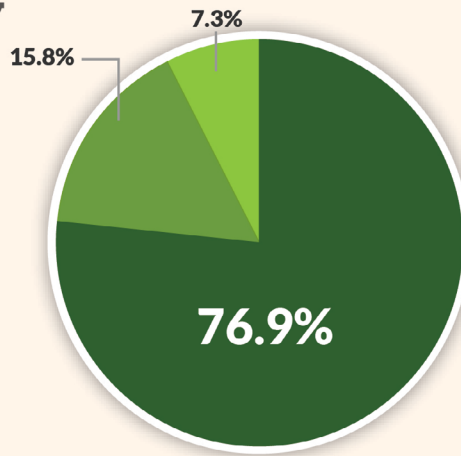


## DoD Numbers for Traumatic Brain Injury Worldwide – Army

2000 - 2018 Q1

Active	173,151
Guard	35,489
Reserve	16,504

**Total - Army 225,144**



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

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Service	Component	Severity	Diagnosed
Army	Active	Penetrating	2,553
		Severe	1,871
		Moderate	16,147
		Mild	140,746
		Not Classifiable	11,834
	Guard	Penetrating	491
		Severe	365
		Moderate	3,160
		Mild	29,204
		Not Classifiable	2,269
	Reserve	Penetrating	167
		Severe	181
		Moderate	1,512
		Mild	13,501
		Not Classifiable	1,143

2000 - 2018 Q1, 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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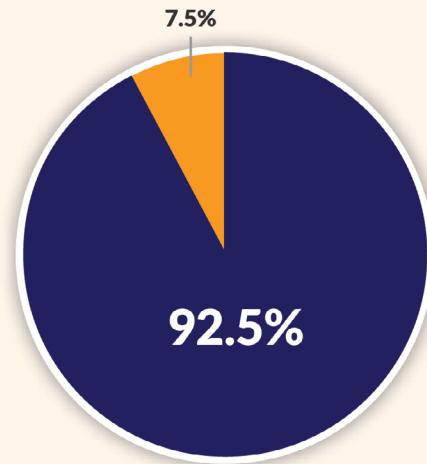
## DoD Numbers for Traumatic Brain Injury Worldwide – Navy

2000 - 2018 Q1

Active	48,220
Reserve	3,928

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**Total - Navy**                      **52,148**



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 - 2018 Q1, as of June 21, 2018

Service	Component	Severity	Diagnosed
Navy	Active	Penetrating	592
		Severe	473
		Moderate	5,337
		Mild	39,546
		Not Classifiable	2,272
	Reserve	Penetrating	45
		Severe	30
		Moderate	396
		Mild	3,288
		Not Classifiable	169

2000 - 2018 Q1, as of June 21, 2018

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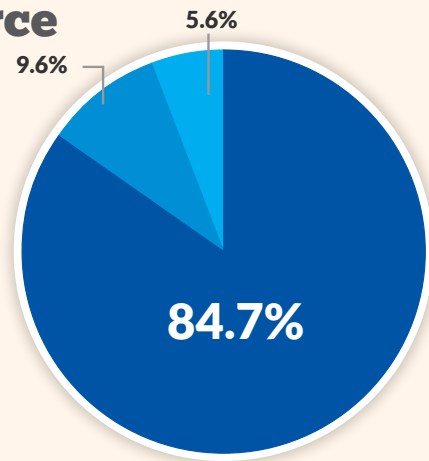


# DoD Numbers for Traumatic Brain Injury Worldwide – Air Force

2000 - 2018 Q1

Active	44,308
Guard	5,023
Reserve	2,951

**Total - Air Force** 52,282



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)

2000 - 2018 Q1, as of June 21, 2018

Service	Component	Severity	Diagnosed
Air Force	Active	Penetrating	497
		Severe	418
		Moderate	4,196
		Mild	37,867
		Not Classifiable	1,330
	Guard	Penetrating	53
		Severe	37
		Moderate	492
		Mild	4,290
		Not Classifiable	151
	Reserve	Penetrating	31
		Severe	26
		Moderate	290
		Mild	2,510
		Not Classifiable	94

2000 - 2018 Q1, as of June 21, 2018

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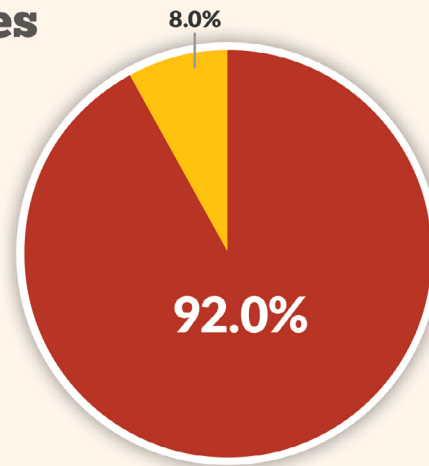
## DoD Numbers for Traumatic Brain Injury Worldwide – Marines

2000 - 2018 Q1

Active	50,026
Reserve	4,347

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**Total - Marines**                      **54,373**



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2000 - 2018 Q1, as of June 21, 2018

Service	Component	Severity	Diagnosed
Marines	Active	Penetrating	721
		Severe	613
		Moderate	5,452
		Mild	41,355
		Not Classifiable	1,885
	Reserve	Penetrating	65
		Severe	53
		Moderate	442
		Mild	3,590
		Not Classifiable	197

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