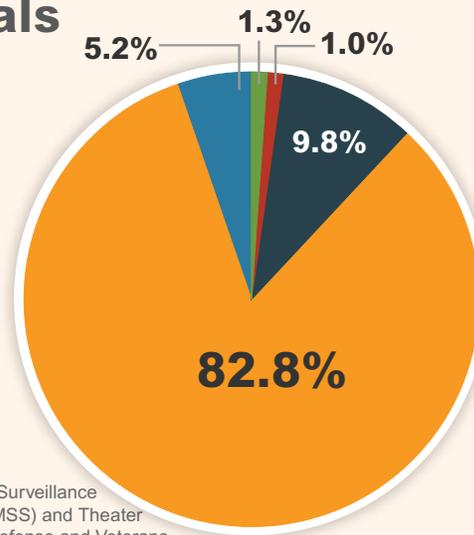




DoD Numbers for Traumatic Brain Injury Worldwide — Totals

2000-2019 Q3

Penetrating	5,279
Severe	4,110
Moderate	40,378
Mild	342,747
Not Classifiable	21,344
Total - All Severities	413,858



Source: 2000 to 2018 Q1 data provided by the Armed Forces Health Surveillance Branch (AFHSB) using the Defense Medical Surveillance System (DMSS) and Theater Medical Data Store (TMDS); data starting 2018 Q2 provided by the Defense and Veterans Brain Injury Center (DVBIC) using the MHS Data Repository (MDR).

Prepared by the Defense and Veterans Brain Injury Center (DVBIC)

2000-2019 Q3, as of November 08, 2019

*Percentage may not add to 100% due to rounding.

Effective April 2018, due to changes in the dissemination of source data used historically to furnish this report, a new approach was used to gather data to ensure this report is completed on a timely basis. This approach identified a new data source and implemented methods that are consistent with historical methodology.

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.

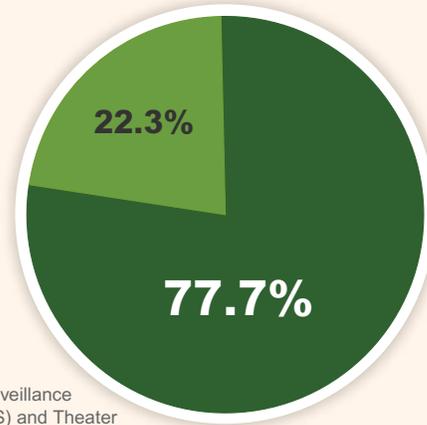
Penetrating TBI, or open head injury, is characterized by the following: A head injury in which the scalp, skull and dura mater (the outer layer of the meninges) are penetrated. Penetrating injuries can be caused by high-velocity projectiles or objects of lower velocity such as knives, or home fragments from a skull fracture that are driven into the brain.



DoD Numbers for Traumatic Brain Injury Worldwide — Army

2000-2019 Q3

Active	188,148
Guard/Reserve	53,954
Total - Army	242,102



Source: 2000 to 2018 Q1 data provided by the Armed Forces Health Surveillance Branch (AFHSB) using the Defense Medical Surveillance System (DMSS) and Theater Medical Data Store (TMDS); data starting 2018 Q2 provided by the Defense and Veterans Brain Injury Center (DVBIC) using the MHS Data Repository (MDR).

Prepared by the Defense and Veterans Brain Injury Center (DVBIC)

2000-2019 Q3, as of November 08, 2019

Service	Component	Severity	Diagnosed
Army	Active	Penetrating	2,579
		Severe	1,889
		Moderate	17,463
		Mild	154,383
		Not Classifiable	11,834
	Guard/Reserve	Penetrating	659
		Severe	553
		Moderate	4,934
		Mild	44,396
		Not Classifiable	3,412

2000-2019 Q3, as of November 08, 2019

Source: 2000 to 2018 Q1 data provided by the Armed Forces Health Surveillance Branch (AFHSB) using the Defense Medical Surveillance System (DMSS) and Theater Medical Data Store (TMDS); data starting 2018 Q2 provided by the Defense and Veterans Brain Injury Center (DVBIC) using the MHS Data Repository (MDR).

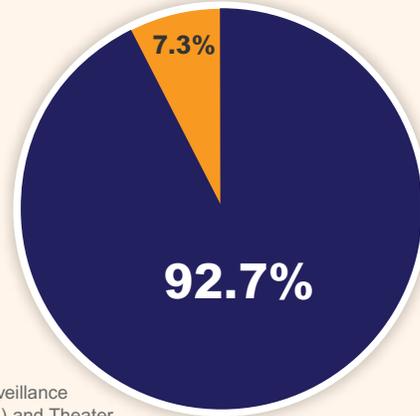
Prepared by the Defense and Veterans Brain Injury Center (DVBIC)



DoD Numbers for Traumatic Brain Injury Worldwide — Navy

2000-2019 Q3

Active	52,464
Reserve	4,116
Total - Navy	56,580



Source: 2000 to 2018 Q1 data provided by the Armed Forces Health Surveillance Branch (AFHSB) using the Defense Medical Surveillance System (DMSS) and Theater Medical Data Store (TMDS); data starting 2018 Q2 provided by the Defense and Veterans Brain Injury Center (DVBIC) using the MHS Data Repository (MDR).

Prepared by the Defense and Veterans Brain Injury Center (DVBIC)

2000-2019 Q3, as of November 08, 2019

Service	Component	Severity	Diagnosed
Navy	Active	Penetrating	606
		Severe	477
		Moderate	5,776
		Mild	43,333
		Not Classifiable	2,272
	Reserve	Penetrating	47
		Severe	31
		Moderate	420
		Mild	3,449
		Not Classifiable	169

2000-2019 Q3, as of November 08, 2019

Source: 2000 to 2018 Q1 data provided by the Armed Forces Health Surveillance Branch (AFHSB) using the Defense Medical Surveillance System (DMSS) and Theater Medical Data Store (TMDS); data starting 2018 Q2 provided by the Defense and Veterans Brain Injury Center (DVBIC) using the MHS Data Repository (MDR).

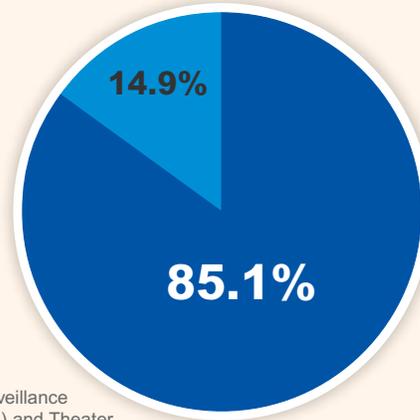
Prepared by the Defense and Veterans Brain Injury Center (DVBIC)



DoD Numbers for Traumatic Brain Injury Worldwide — Air Force

2000-2019 Q3

Active	48,354
Guard/Reserve	8,443
Total - Air Force	56,797



Source: 2000 to 2018 Q1 data provided by the Armed Forces Health Surveillance Branch (AFHSB) using the Defense Medical Surveillance System (DMSS) and Theater Medical Data Store (TMDS); data starting 2018 Q2 provided by the Defense and Veterans Brain Injury Center (DVBIC) using the MHS Data Repository (MDR).

Prepared by the Defense and Veterans Brain Injury Center (DVBIC)

2000-2019 Q3, as of November 08, 2019

Service	Component	Severity	Diagnosed
Air Force	Active	Penetrating	506
		Severe	424
		Moderate	4,599
		Mild	41,495
		Not Classifiable	1,330
	Guard/Reserve	Penetrating	84
		Severe	64
		Moderate	832
		Mild	7,218
		Not Classifiable	245

2000-2019 Q3, as of November 08, 2019

Source: 2000 to 2018 Q1 data provided by the Armed Forces Health Surveillance Branch (AFHSB) using the Defense Medical Surveillance System (DMSS) and Theater Medical Data Store (TMDS); data starting 2018 Q2 provided by the Defense and Veterans Brain Injury Center (DVBIC) using the MHS Data Repository (MDR).

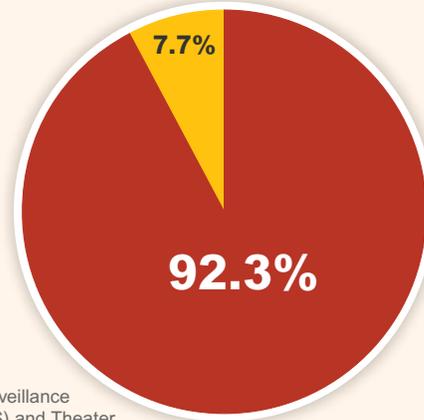
Prepared by the Defense and Veterans Brain Injury Center (DVBIC)



DoD Numbers for Traumatic Brain Injury Worldwide — Marines

2000-2019 Q3

Active	53,905
Reserve	4,474
Total - Marines	58,379



Source: 2000 to 2018 Q1 data provided by the Armed Forces Health Surveillance Branch (AFHSB) using the Defense Medical Surveillance System (DMSS) and Theater Medical Data Store (TMDS); data starting 2018 Q2 provided by the Defense and Veterans Brain Injury Center (DVBIC) using the MHS Data Repository (MDR).

Prepared by the Defense and Veterans Brain Injury Center (DVBIC)

2000-2019 Q3, as of November 08, 2019

Service	Component	Severity	Diagnosed
Marines	Active	Penetrating	733
		Severe	618
		Moderate	5,888
		Mild	44,781
		Not Classifiable	1,885
	Reserve	Penetrating	65
		Severe	54
		Moderate	466
		Mild	3,692
		Not Classifiable	197

2000-2019 Q3, as of November 08, 2019

Source: 2000 to 2018 Q1 data provided by the Armed Forces Health Surveillance Branch (AFHSB) using the Defense Medical Surveillance System (DMSS) and Theater Medical Data Store (TMDS); data starting 2018 Q2 provided by the Defense and Veterans Brain Injury Center (DVBIC) using the MHS Data Repository (MDR).

Prepared by the Defense and Veterans Brain Injury Center (DVBIC)