

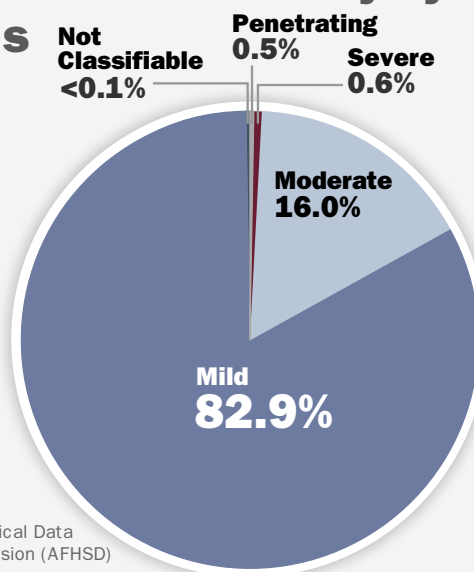


DOD Numbers for Traumatic Brain Injury Worldwide — Totals

2020

Penetrating	75
Severe	104
Moderate	2,648
Mild	13,731
Not Classifiable	1

Total - All Severities 16,559



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

Prepared by the Traumatic Brain Injury Center of Excellence (TBI CoE)

*Percent may not add to 100% due to rounding

2020, as of February 11, 2022

Definitions and Revisions

Note: From 2018 (Q2) through 2019 (Q3), AFHSD temporarily halted the distribution of the data used in this report and the Traumatic Brain Injury Center of Excellence (TBI CoE) used the MHS Data Repository to ensure this report was completed on a timely basis. While TBI CoE used a different data source, the approach was consistent with the 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.

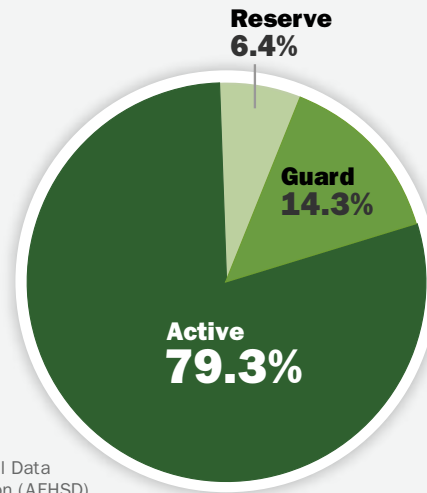
Penetrating TBI, or open head injury, is characterized by the following: A head injury in which the scalp, skull and dura mater (the outer layer of the meninges) are penetrated. Penetrating injuries can be caused by high-velocity projectiles or objects of lower velocity such as knives, or home fragments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



DOD Numbers for Traumatic Brain Injury Worldwide — Army

2020

Active	7,639
Guard	1,376
Reserve	618
Total - Army	9,633



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2020, as of February 11, 2022

Service	Component	Severity	Diagnosed
Army	Active	Penetrating	24
		Severe	41
		Moderate	1,189
		Mild	6,385
		Not Classifiable	-
	Guard	Penetrating	10
		Severe	9
		Moderate	208
		Mild	1,149
		Not Classifiable	-
	Reserve	Penetrating	3
		Severe	3
		Moderate	106
		Mild	506
		Not Classifiable	-

2020, as of February 11, 2022

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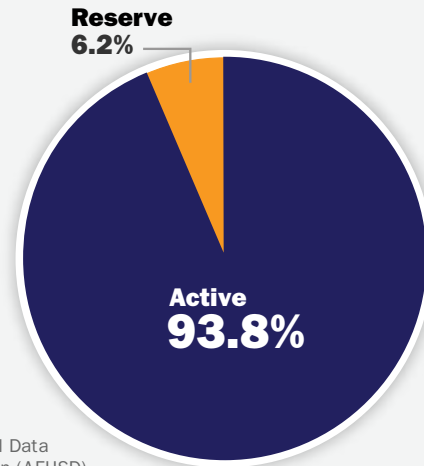
Prepared by the Traumatic Brain Injury Center of Excellence (TBICoE)



DOD Numbers for Traumatic Brain Injury Worldwide — Navy

2020

Active	2,201
Reserve	145
Total - Navy	2,346



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2020, as of February 11, 2022

Service	Component	Severity	Diagnosed
Navy	Active	Penetrating	12
		Severe	17
		Moderate	327
		Mild	1,844
		Not Classifiable	1
	Reserve	Penetrating	-
		Severe	-
		Moderate	24
		Mild	121
		Not Classifiable	-

2020, as of February 11, 2022

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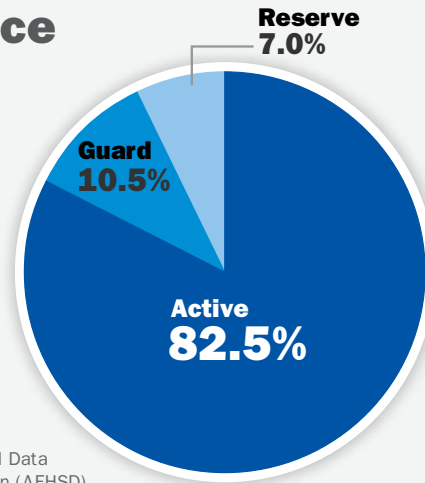


DOD Numbers for Traumatic Brain Injury Worldwide — Air Force

2020

Active	1,851
Guard	236
Reserve	156

Total - Air Force 2,243



Source: Defense Medical Surveillance System (DMSS), Theater Medical Data Store (TMDS) provided by the Armed Forces Health Surveillance Division (AFHSD)
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2020, as of February 11, 2022

Service	Component	Severity	Diagnosed
Air Force	Active	Penetrating	9
		Severe	16
		Moderate	303
		Mild	1,523
		Not Classifiable	-
	Guard	Penetrating	2
		Severe	2
		Moderate	47
		Mild	185
		Not Classifiable	-
	Reserve	Penetrating	2
		Severe	2
		Moderate	28
		Mild	124
		Not Classifiable	-

2020, as of February 11, 2022

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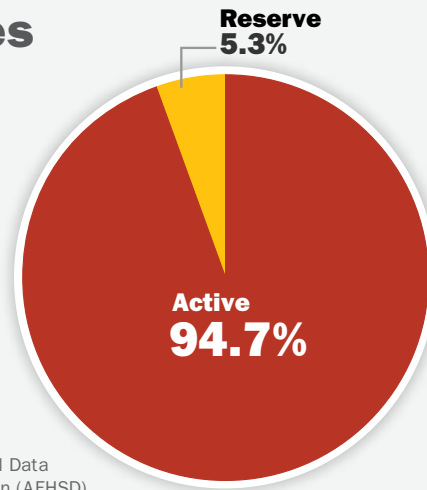


DOD Numbers for Traumatic Brain Injury Worldwide — Marines

2020

■ Active	2,213
■ Reserve	124

Total - Marines **2,337**



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2020, as of February 11, 2022

Service	Component	Severity	Diagnosed
Marines	Active	Penetrating	12
		Severe	11
		Moderate	397
		Mild	1,793
		Not Classifiable	-
	Reserve	Penetrating	1
		Severe	3
		Moderate	19
		Mild	101
		Not Classifiable	-

2020, as of February 11, 2022

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

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