DEPARTMENT OF THE NAVY



BUREAU OF MEDICINE AND SURGERY 2300 E STREET NW WASHINGTON DC 20372-5300

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MEMORANDUM FOR COMMANDER, NAVY MEDICINE EAST
COMMANDER, NAVY MEDICINE WEST
COMMANDER, NAVY MEDICINE NATIONAL CAPITAL AREA

Subj: POLICY GUIDANCE FOR TRAUMATIC BRAIN INJURY (TBI): DEFINITION AND REPORTING

Encl: (1) DoD Definition of Traumatic Brain Injury (TBI)

- (2) Navy Medicine Monthly TBI Tracking Report
- (3) TBI Reporting Database Rules
- (4) 2007 ICD-9 CM Volume 1 Diagnosis Codes
- (5) FY-08 TBI V-Codes
- 1. Traumatic Brain Injury (TBI) is a significant health concern for the Department of Defense (DoD). DoD's TBI program must be based on a clear definition of TBI, and a consistent means of reporting the data. To this end, the Assistant Secretary of Defense for Health Affairs released a memorandum outlining definition and reporting requirements for Traumatic Brain Injury (TBI).
- 2. This memorandum serves as initial guidance for newly established TBI reporting requirements. These measures represent a unified step toward the diagnosis and treatment of TBI within DoD.
- 3. Effective immediately, INCONUS Military Treatment Facilities (MTFs), inpatient and outpatient, will report all identified TBI cases. Until automated reporting tools are restructured, this data will be collected and reported via manual means. Enclosure (1) provides a standardized definition for TBI and severity of brain injury stratification criteria. Of note is that mild TBI is now classified by a Loss of Consciousness (LOC) < 30 minutes, while moderate TBI is classified by a LOC of >30 or < 60 minutes. Enclosure (2) is the EXCEL TBI reporting format. This report will be recorded in full and without format deviation. Enclosure (3) includes the TBI reporting rules. Enclosure (4) lists the ICD-9 codes that are relevant to accurately reporting the severity of brain injury, as noted by ICD-9 codes 850.11 and 850.12. Enclosure (5) lists the V-Codes that categorize TBI as GWOT or non-GWOT related. While these V-Codes are not yet published in AHLTA and CHCS-1, they are pertinent to accurate brain injury classification for this new TBI reporting requirement.
- 4. Regional Commanders will submit monthly consolidated TBI reports, collated by military treatment facility, no later than the 7th of the month for the previous month's data, (e.g., 1-30 November for the December report). Regional Commanders will submit TBI reports to BUMED M3C3 via encrypted email. The BUMED M3C3 email address is bumed.m3c3@med.navy.mil. While this is short notice, Regional Commanders will provide the required December report no later than 20 December 2007. BUMED will then submit a consolidated Navy Medicine TBI report to the Defense and Veterans Brain Injury Center. The January 2008 report will be submitted by the required report date.

Subj: POLICY GUIDANCE FOR TRAUMATIC BRAIN INJURY (TBI): DEFINITION AND REPORTING

5. My point of contact for this issue is CAPT Robert Koffman, BUMED, Director, Deployment Health (M3C3), Combat and Operational Stress Control Consultant, at (202) 762-3072 or robert.koffman@med.navy.mil.

T. R. CULLISON

Vice Chief

DoD DEFINITION OF TRAUMATIC BRAIN INJURY (TBI)

A traumatically induced structural injury and/or physical disruption of brain function as a result of an external force that is indicated by new onset or worsening of at least one of the following clinical signs, immediately following the event:

- Any period of loss of or decreased level of consciousness;
- Any loss of memory for events immediately before or after the injury;
- Any alteration in mental state at the time of the injury (confusion, disorientation, slowed thinking, etc.);
- Neurological deficits (weakness, loss of balance, change in vision, praxis, paresis/plegia, sensory loss, aphasia, etc.) that may or may not be transient;
- Intracranial lesion.

External forces may include any of the following events: the head being struck by an object, the head striking an object, the brain undergoing an acceleration/deceleration movement without direct external trauma to the head, a foreign body penetrating the brain, forces generated from events such as a blast or explosion, or other force yet to be defined.

The above criteria define the event of a traumatic brain injury (TBI). Sequelae of TBI may resolve quickly, within minutes to hours after the neurological event, or they may persist longer. Some sequelae of TBI may be permanent. Most signs and symptoms will manifest immediately following the event. However, other signs and symptoms may be delayed from days to months (e.g., subdural hematoma, seizures, hydrocephalus, spasticity, etc.). Signs and symptoms may occur alone or in varying combinations and may result in a functional impairment. These signs and symptoms are not better explained by pre-existing condition or other medical, neurological, or psychological causes except in cases of an exacerbation of pre-existing condition. These generally fall into one or more of the three categories:

 <u>Physical</u>: Headache, nausea, vomiting, dizziness, blurred vision, sleep disturbance, weakness, paresis/plegia, sensory loss, spasticity, aphasia, dysphagia, dysarthria, apraxia, balance disorders, disorders of coordination, seizure disorder.

- <u>Cognitive</u>: Attention, concentration, memory, speed of processing, new learning, planning, reasoning, judgment, executive control, self-awareness, language, abstract thinking.
- <u>Behavioral/emotional</u>: Depression, anxiety, agitation, irritability, impulsivity, aggression.

Note: The signs and symptoms listed above are typical of each category but are not an exhaustive list of all possible signs and symptoms.

SEVERITY OF BRAIN INJURY STRATIFICATION:

Not all individuals exposed to an external force will sustain a TBI. TBI varies in severity, traditionally described as mild, moderate and severe. These categories are based on measures of length of unconsciousness, post-traumatic amnesia.

The trauma may cause structural damage or may produce more subtle damage that manifests by altered brain function, without structural damage that can be detected by traditional imaging studies such as Magnetic Resonance Imaging or Computed Tomography scanning. In addition to traditional imaging studies, other imaging techniques such as functional magnetic resonance imaging, diffusion tensor imaging, positron emission tomography scanning, as well as electrophysiological testing such as electroencephalography may be used to detect damage to or physiological alteration of brain function. In addition, altered brain function may be manifest by altered performance on neuropsychological or other standardized testing of function.

Acute injury severity is determined at the time of the injury, but this severity level while having some prognostic value, does not necessarily reflect the patient's ultimate level of functioning. It is recognized that serial assessments of the patient's cognitive, emotional, behavioral and social functioning is required.

The patient is classified as mild/moderate/severe if he or she meets any of the
criteria below within a particular severity level. If a patient meets criteria in more
than one category of severity, the higher severity level is assigned.

If it is not clinically possible to determine the brain injury level of severity because
of medical complications (e.g., medically induced coma), other severity markers
are required to make a determination of the severity of the brain injury.

Mild TBI	Moderate TBI	Sever TBI
Normal structural imaging	Normal or abnormal structural imaging	Normal or abnormal structural imaging
LOC = 0-30 min	LOC >30 min and < 24 hours	LOC > 24 hours
AOC = a moment up to 24 hours	AOC > 24 hours. Severit	y based on other criteria.
PTA = 0-1 day	PTA >1 and <7 days	PTA >7 days

AOC - alteration of consciousness/mental state

LOC - Loss of consciousness

PTA - Post-traumatic amnesia

It is recognized that the cognitive symptoms associated with post-traumatic stress disorder (PTSD) may overlap with symptoms of mild TBI. Differential diagnosis of brain injury and PTSD is required for accurate diagnosis and treatment.

^{*} An inconsistency currently exists between this published guidance and the published V codes for mild TBI when loss of consciousness is between 30 and 59 minutes. Until this inconsistency is resolved, Services are to report in the attached format using the criteria published above.

Navy Medicine Monthly TBI Tracking Report

12/4/2007

OIF/OEF	OIF/OEF Traumatic Brain Injury														
In charac ASD(HA) to this re	In characterizing severity of TBI, MTFs will report TBI ASD(HA) TBI Definition and Reporting Memo, dated 0 to this report format without prior authorization from	Fs will r ig Memo	eport TBI o, dated 0 ion from	l accordi 11 Oct 20 BUMED.	ng to the	according to the interim criteria published in the 1 Oct 2007. There will be no deviations or exceptions BUMED.	teria publi	Ished in the	otions						
MTF/Site	Patient Name	Patient Age	Gender	Rank	Branch	Patient SSN	Where	Deployment	Closed	Injury Penetrat Agent = Ing TBI Fragme	Injury Agent = Fragme nt	Injury Agent = Fall	Injury Agent = Bullet	Injury Agent ≂ Blast	Injury Agent ≃ Vehicula r
	Last, First Mi	Number	1=Male, 2⇒Female	(pay scale)	USN. USNR. USNR. USNCR. USNCR. USAFR. USAR. USAR.	9 digits no dashes or spaces	1=OIF, 2=OEF 3=Other than OEF/OIF	Which OIF/OEF deployment is this? 1, 2, 3 etc.	Yes=1 No=0	Ves=1	Yes=1 No=0	Yes=1 No=0	Yes=1	Yes=1	Yes=1 No=0
MTF/Site	PT NAME	PT AGE GENDER		RANK	BRANCH	PTSSN	WHEBE	DED! OV	Ą	HEAD	AGENT A	AGENT	AGENT	AGENT	±1400 V
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Navy Medicine Monthly TBI Tracking Report

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Injury Agent = Other	Date of Injury	Home of Record	Closed TBI Severity	Date of Admission, if applicable. OR Date of	Date of Discharge (If Outcome Applicable)	Оцсоте	v Code	ICD9 Code
Yes=1 No=0	mm/dd/yyy y	Postal Abbrevi ation (i.e. OH for Ohio)	Postal Mild=1(LOC 0-30 Abbrevi min). 1 mm/dd/yyy ation min and < 60 min). m y (i.e. OH Severen3 (LOC > 30 for 24 hours) Ohio) Penetrating=67	тт/аф/уууу	mm/dd/yyyy	1=Return to Duty 2=Limited Duty 3=Home w/Output Support 5=Community Trans Pgm 6=Nursing Home 7=Med Retriement Board		
AGENT O	DT_INU	HOM Since	SEVERITY	DT_ADM	DT_DC	OUTCOME	V Code	ICD9 Code
0	02/21/07	⊋	-	02/24/07	03/25/07	2	V15.52	850 44
								000:10

TBI Reporting Database Rules

1. Name

- Last name first
- First letters of first and last name uppercase, rest are lowercase.
- Include middle initial if known.
- Ex: Smith, Robert A.

2. Age

• Numerical age

3. Gender

• 1=Male 2=Female

4. Rank

- No dashes
- Ex: E2, O3

5. Branch

 USA=Army Active Duty, USAR=Army Reserve, USNG=National Guard, USMC=Marine Corps Active Duty, USMCR=Marine Corps Reserve, USN=Navy Active Duty, USNR=Navy Reserve, USAF=Air Force Active Duty, USAFR=Air Force Reserve, CIV=Civilian

6. SSN

- Only include the 9 digit SSN with no dashes.
- Ex: 987654321

7. Where Wounded

- 1=Operation Iraqi Freedom (OIF)
- 2=Operation Enduring Freedom (OEF)
- 3=Other than (OIF/OEF)

8. Deployment

• Which OIF/OEF deployment was the patient on when injured? (e.g., OIF)

9. Closed TBI

• 1=Yes 0=No

10. Penetrating TBI

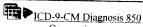
- A penetrating TBI is one in which the dura of the brain is punctured.
- 1=Yes 0=No

Enclosure (3)

Note: Agent of injury is the cause of the TBI. For example, if a patient was shot in the leg, fell and hit his head, his agent of injury would be a fall but not a bullet.

- 11. Injury Agent=Fragment
 - 1=Yes 0=No
- 12. Injury Agent =Fall
 - 1=Yes 0=No
- 13. Injury Agent=Bullet
 - 1=Yes 0=No
- 14. Injury Agent=Blast
 - 1=Yes 0=No
- 15. Injury Agent=Vehicular
 - 1=Yes 0=No
- 16. Injury Agent=Other
 - 1=Yes 0=No
- 17. Date of Injury
 - mm/dd/yyyy
- 18. Home of Record
 - Use postal abbreviation for patient's home state.
- 19. Closed TBI Severity
 - 1=mild 2=moderate 3=severe 97=penetrating
- 20. Date of Admission (if applicable) / Outpatient Assessment
 - mm/dd/yyyy
- 21. Date of Discharge (if applicable) / NA to Outpatient Assessment
 - mm/dd/yyyy
 - Unknown discharge dates will be collected at the end of the calendar year.
- 22. Outcome / Discharge Disposition
 - 1=Return to Duty, 2=Limited Duty, 3=Home, 4=Home w/Outpt Support, 5=Community Transitional Program, 6=Nursing Home, 7=Med Retirement, 8=Pending Med Board
- 24. V-Code
- 25. ICD-9 Code

2007 ICD-9-CM Volume 1 Diagnosis Codes Intracranial Injury, Excluding Those With Skull Fracture <u>850-854</u> >



Concussion

A nonspecific term used to describe transient alterations or loss of consciousness following closed head injuries. The duration of UNCONSCIOUSNESS generally lasts a few seconds, but may persist for several hours. Concussions may be classified as mild, intermediate, and severe. Prolonged periods of unconsciousness (often defined as greater than 6 hours in duration) may be referred to as post-traumatic coma (COMA, POST-HEAD INJURY). (From Rowland, Merritt's Textbook of Neurology, 9th ed, p418) 850 is a non-specific code that cannot be used to specify a diagnosis



EP ► ICD-9-CM Diagnosis 850.0

Concussion with no loss of consciousness 850.0 is a specific code that can be used to specify a diagnosis 850.0 contains 4 index entries



ICD-9-CM Diagnosis 850.1

Concussion with brief loss of consciousness 850.1 is a non-specific code that cannot be used to specify a diagnosis



ICD-9-CM Diagnosis 850.11

Concussion with loss of consciousness of 30 minutes or less 850.11 is a specific code that can be used to specify a diagnosis 850.11 contains 2 index entries



ICD-9-CM Diagnosis 850.12

Concussion with loss of consciousness from 31 to 59 minutes 850.12 is a specific code that can be used to specify a diagnosis 850.12 contains 2 index entries



ICD-9-CM Diagnosis 850.2

Concussion with moderate loss of consciousness 850.2 is a specific code that can be used to specify a diagnosis 850.2 contains 2 index entries



ICD-9-CM Diagnosis 850.3

Concussion with prolonged loss of consciousness and return to pre-existing conscious level 850.3 is a specific code that can be used to specify a diagnosis

850.3 contains 2 index entries



ICD-9-CM Diagnosis 850.4

Concussion with prolonged loss of consciousness without return to pre-existing conscious level 850.4 is a specific code that can be used to specify a diagnosis

850.4 contains 2 index entries

Attachment (3)



ICD-9-CM Diagnosis 850.5

Concussion with loss of consciousness of unspecified duration 850.5 is a specific code that can be used to specify a diagnosis

850.5 contains 3 index entries



ICD-9-CM Diagnosis 850.9

Concussion unspecified

A nonspecific term used to describe transient alterations or loss of consciousness following closed head injuries. The duration of UNCONSCIOUSNESS generally lasts a few seconds, but may persist for several hours. Concussions may be classified as mild, intermediate, and severe. Prolonged periods of unconsciousness (often defined as greater than 6 hours in duration) may be referred to as post-traumatic coma (COMA, POST-HEAD INJURY). (From Rowland, Merritt's Textbook of Neurology, 9th ed, p418) 850.9 is a specific code that can be used to specify a diagnosis

850.9 contains 7 index entries

Enclosure (4)

Code	Hyte	Exten Chart Manating	/002/4/21
Number	der		Long Narrative Additions
996.62	0	RXN, VASCULAR DEVICE NOS	INFECTION AND INFLAMMATORY REACTION DUE TO VASCULAR DEVICE,
996.62		RXN,VASCULAR DEVICE JUGULAR V	INFECTION AND INFLAMMATORY REACTION DUE TO VASCULAR DEVICE,
996.62	72	RXN,VASCULAR DEVICE SUBCLAVN V	INFECTION AND INFLAMMATORY REACTION DUE TO VASCULAR DEVICE,
996.62	3	RXN, VASCULAR DEVICE FEMORAL V	INFECTION AND GRAFT, SUBCLAVIAN VEIN INFECTION AND INFLAMMATORY REACTION DUE TO VASCULAR DEVICE,
996.62	4	RXN,VASCULAR DEVICE OTHER VEIN	INFECTION AND GRAFT, FEMORAL VEIN INFECTION AND INFLAMMATORY REACTION DUE TO VASCULAR DEVICE,
996.62	5	RXN,VASCULAR DEVICE VEIN NOS	INFECTION AND INFLAMMATORY REACTION DUE TO VASCULAR DEVICE,
V15.5	0	HAZARD	OTHER PERSONAL METONS METONS
V15.5		KN LEVEL	PERSONAL HISTORY OF TRAUMATIC BRAIN INJURY (TBI),GLOBAL WAR ON
V15.5	2	TBI,PERSONAL HX,GWOT,MILD	PERSONAL HISTORY OF TRAUMATIC BRAIN INTIRY (TRICE) OR AT 1974 D. CONTROLLING OF TRAUMATIC BRAIN INTIRY (TRICE) OR AT 1974 D. CONTROLLING OF TRAUMATIC BRAIN INTIRY (TRICE) OR AT 1974 D. CONTROLLING OF TRAUMATIC BRAIN INTIRY (TRICE) OR AT 1974 D. CONTROLLING OF TRAUMATIC BRAIN INTIRY (TRICE) OR AT 1974 D. CONTROLLING OF TRAUMATIC BRAIN INTIRY (TRICE) OR AT 1974 D. CONTROLLING OF TRAUMATIC BRAIN INTIRY (TRICE) OR AT 1974 D. CONTROLLING OF TRAUMATIC BRAIN INTIRY (TRICE) OR AT 1974 D. CONTROLLING OF TRAUMATIC BRAIN INTIRY (TRICE) OR AT 1974 D. CONTROLLING OF TRAUMATIC BRAIN INTIRY (TRICE) OR AT 1974 D. CONTROLLING OR 1974 D. CONTROLLING OR AT 1974 D. CONTROLLING OR
			TERRORISM (GWOT) RELATED, HIGHEST LEVEL OF SEVERITY MILD (GLASGOW
V15.5	3	TBI, PERSONAL HX, GWOT, MODERATE	PERSONAL HISTORY OF TRAINANTS BY AN AMNESIA<24HR
			TERRORISM (GWOT) RELATED, HIGHEST LEVEL OF SEVERITY MODERATE
V15.5	4	TBI,PERSONAL HX,GWOT,SEVERE	PERSONAL HISTORY OF TRAINA TICE BRAIN THE STATE AND THE DAYS
			TERRORISM (GWOT) RELATED, HIGHEST LEVEL OF SEVERITY SEVERE (GLASGOW
V15.5	5	TBI.PERSONAL HX,GWOT PENETRATG	TBI, PERSONAL HX, GWOT PENETRATG DEPRONAL HISTORY OF THE STATE AMNESIA >6 DAYS
			TERRORISM (GWOT) RELATED PENETRATING INTRACRANIAL WOLTHOUSE
V15.5	9	TBI.PERSONAL HX NON-GWOT 11KN	OF SEVERITY ASSIGNED)
V15.5	7		FERSONAL HISTORY OF TRAUMATIC BRAIN INJURY (TBI), NOT GWOT RELATED, UNKNOWN LEVEL OF SEVERITY
		I BI, FEKSUNAL HX, NON-GWOT, MILD P	PERSONAL HISTORY OF TRAUMATIC BRAIN INJURY (TBI), NOT RELATED TO
V15.5	×	TRI DED CONTAI TRY MON. CO.	GLODAL WAR ON TERRORISM (GWOT), HIGHEST LEVEL OF SEVERITY MILD (GLASGOW COMA SCALE 13-15), LOC<1HR. POST TRATIMA AMNESTA / 24 LD
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		IBI, PERSONAL HX, NON-GWOT, SEVER P	PERSONAL HISTORY OF TRAUMATIC BRAIN INJURY (TBI), NOT RELATED TO
		5	GLUBAL WAR ON TERRORISM (GWOT), HIGHEST LEVEL OF SEVERITY SEVERE
V15.5	∢	TBI,PERSONAL HX,NON-GWOT,PENET P	PERSONAL HISTORY OF TRAINATIC RRAIN INH BY (TRIVINGE STILL)
		<u>5</u>	GLOBAL WAR ON TERRORISM (GWOT), PENETRATING INTRACRANIAL WOUND (NO
			LEVEL OF SEVERITY ASSIGNED)

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	12/4/2007		PERSONAL HISTORY OF TRAUMATIC BRAIN INJURY (TBI). UNKNOWN IF GWOT	/ERITY LEVEL	TO GLOBAL WAR ON TERRORISM (GWOT), HIGHEST LEVEL OF SEVERITY MILES.	IGLASGOW COMA SCALE 13-15).LOC<1HR,POST TRAUMA AMNESIA<24HR PERSONAL HISTORY OF TRAINAATIC DE ANA COMMANDE STATEMENT OF TRAINAATIC DE ANA COMMANDE STATEMENT OF TRAINAATIC DE ANA COMMAND STATEMENT OF TRAINAATIC DE	TO GLOBAL WAR ON TERRORISM (GWOT), HIGHEST LEVEL, OF SEVERITY	MODERATE (GLASGOW COMA SCALE 9-12), LOC 1-24 HRS.POST TRAUMA AMNESIA 1-	PERSONAL HISTORY OF TRAITMATIC RRAIN MITTEN (TELEVISION)	TO GLOBAL WAR ON TERRORISM (GWOT), HIGHEST I EVEL OF SEVERITY SEXTERS.	(GLASGOW COMA SCALE 3-8), LOC > 24HRS, POST TRAUMA AMNESIA > 6 DAYS	TO GLOBAL WAR ON TERROPISM (CWOT) PER WAR.	(NO LEVEL OF SEVERITY ASSIGNED)	OTHER SPECIFIED CONDITIONS INFLUENCING HEALTH STATUS OTHER	O'I HER SPECIFIED CONDITION, NOT CASE MANAGEMENT	(1)	TINUE	
LY US I BI _ V-Codes	Long Narrative Additions			Т		T,MODE	TO GLOBAL WAR ON TER	MODERATE (GLASGOW C	L,SEVE	TO GLOBAL WAR ON TER	PENE					111		AND YOU CHASE MANAGEMENT END
	Exten Short Narrative		I BI.PERSON HX, UKN IF GWOT, UKN	TBI, PERSON HX, UKN IF GWOT MILD		TBI, PERSON HX, UKN IF GWO			TBI, PERSON HX, UKN IF GWO		TBI.PERSON HX,UNK IF GWOT		OTHED Specimen im	OTHER HI TH IMPACT NOT CAST MOT	CASE MANAGEMENT STAPT	CASE MANAGEMENT CONTIN	CASE MANAGEMENT END	CASE MANAGEMENT NEC AND VICE
		VIS S	d C.C. V	V15.5 C		V15.5 D			V15.5 E		V15.5 F		V49.89	v49.89	v49.89 2	v49.89 3	v49.89 4	v49.89 9