



TACTICAL COMBAT CASUALTY CARE COURSE

MODULE 12: HEAD INJURIES



TCCC TIER 1 All Service Members

TCCC TIER 2 Combat Lifesaver

TCCC TIER 3
Medic/Corpsman

TCCC TIER 4
Combat Paramedic/Provider



TACTICAL COMBAT CASUALTY CARE (TCCC) ROLE-BASED TRAINING SPECTRUM



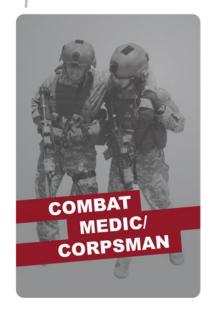
ROLE 1 CARE

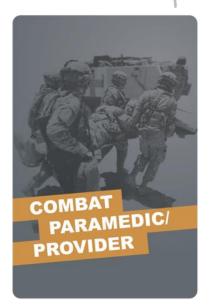
NONMEDICAL PERSONNEL





MEDICAL PERSONNEL





▼ YOU ARE HERE

STANDARDIZED JOINT CURRICULUM



STUDENT LEARNING OBJECTIVES



TERMINAL LEARNING OBJECTIVE

13 Identify a head injury in accordance with DoDI 6490.11, Change 1. 1 June 2018

- Identify external forces that can cause a head injury (DoDI 6490.11 enclosure 3 Section 1).
- Identify signs and symptoms of a head injury (DoDI 6490.11, enclosure 3 Figure IED checklist).
- Identify the critical observations that should be reported to medical personnel for trauma casualties with a suspected head injury, in accordance with the Military Acute Concussive Evaluation 2 (MACE 2).

03 ENABLING LEARNING OBJECTIVES (ELOs)





Three PHASES of TCCC

1 CARE UNDER FIRE

RETURN FIRE AND TAKE COVER

Quick decision-making

- Consider scene safety
- Identify and control lifethreatening bleeding
- Move casualty to safety

2 TACTICAL FIELD CARE

COVER AND CONCEALMENT

Basic management plan:

- Maintain tactical situational awareness
- Triage casualties as required
- Conduct MARCH PAWS assessment

3 TACTICAL EVACUATION CARE

More deliberate assessment and treatment of unrecognized lifethreatening injuries

- Pre-evacuation procedures
- Continuation of documentation

NOTE: This is covered in more advanced TCCC training!





TACTICAL FIELD CARE





DURING LIFE-THREATENING



MASSIVE BLEEDING





AIRWAY



RESPIRATION (breathing)



CIRCULATION



HYPOTHERMIA / HEAD INJURIES

AFTER LIFE-THREATENING



PAIN



ANTIBIOTICS



WOUNDS



SPLINTING





POTENTIAL MECHANISMS OF HEAD INJURY

Head injury is trauma to the scalp, skull, and/or brain



- Involvement in a vehicle blast event, collision, or rollover
- Presence within 50 METERS of a blast (inside or outside)
- A direct blow to the head or witnessed loss of consciousness
- Exposure to more than one blast event (the Service member's commander will direct a medical evaluation)

OTHER EXTERNAL FORCES MAY ALSO LEAD TO HEAD INJURIES





SIGNS AND SYMPTOMS OF HEAD INJURY

IED Checklist

Injury	Physical damage to the body or body part of a Service member?	(Yes/No)
Evaluation	H – Headaches and/or vomiting?	(Yes/No)
	E – Ear ringing?	(Yes/No)
	A – Amnesia, altered consciousness, and/or loss of consciousness?	(Yes/No)
	D – Double vision and/or dizziness?	(Yes/No)
	S – Something feels wrong or is not right?	(Yes/No)
Distance	Was the Service member within 50 meters of the blast? Record the	(Yes/No)
	distance from the blast.	Not
		Applicable

DoDI 6490.11 (section 3, para 2.a)

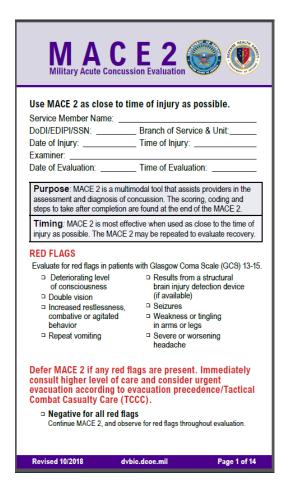




SIGNS AND SYMPTOMS REQUIRING MACE 2* EVALUATION BY MEDICAL PERSONNEL

Evaluations are **most effective** when done **as soon as possible** after the injury. **Traumatic brain injury (TBI)** is likely if the casualty shows signs of **ANY** of the following:

- Deteriorating level of consciousness
- Double vision
- Increased restlessness; combative or agitated behavior
- Repeat vomiting
- Results from a structural brain injury detection device (if available)
- Seizures
- Weakness or tingling in arms or legs
- Severe or worsening headache







SUMMARY

- We **defined** head injury
- We discussed **mechanisms of injury**
- We discussed **signs and symptoms**
- We identified critical observations to report to
- higher medical personnel







CHECK ON LEARNING

- What external forces can cause a head injury?
- What are the critical observations that should be reported to medical personnel for trauma casualties with a suspected head injury, in accordance with the MACE 2?





ANY QUESTIONS?