

Report Date: 27 Jun 2012

**Summary Report for Individual Task**  
**081-833-0247**  
**Perform a Military Acute Concussion Evaluation (MACE) Screening for Traumatic Brain Injury**  
**Status: Approved**

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DISTRIBUTION RESTRICTION: Approved for public release; distribution is unlimited.

DESTRUCTION NOTICE: None

**Condition:** A casualty requires an assessment to determine whether a traumatic brain injury (TBI) has occurred. You will need a military acute concussion evaluation (MACE) screening tool. You are not in a CBRN environment.

**Standard:** Perform a MACE screening for a casualty with a suspected TBI.

**Special Condition:** None

**Special Standards:** None

**Special Equipment:**

**Safety Level:** Low

**MOPP:**

<b>Task Statements</b>
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**Cue:** None

<b>DANGER</b>
None

<b>WARNING</b>
None

<b>CAUTION</b>
None

**Remarks:** None

**Notes:** None

## Performance Steps

### 1. Obtain a history of the patient.

Note: A concussion is a mild TBI. The purpose of the MACE is used to evaluate a person in whom a concussion is suspected.

#### a. Description of the incident.

Note: Anyone who was dazed, confused, "saw stars" or lost consciousness as a result of an explosion/blast, fall, motor vehicle accident or other event involving abrupt head movement, a direct blow to the head or other head injury should be evaluated using the MACE screening tool.

- (1) What happened?
- (2) Tell me what you can remember.
- (3) Were you dazed, confused, saw "stars"?
- (4) Did you hit your head?
- (5) Was a helmet worn? What type?
- (6) Any history of amnesia before or after the incident? If yes, how long?
- (7) Any loss of consciousness? If yes, how long?

#### b. Cause of injury.

- (1) Explosion/Blast
- (2) Blunt object
- (3) Motor vehicle crash
- (4) Fragment
- (5) Fall
- (6) Gun shot wound
- (7) Other

#### c. Symptoms.

- (1) Headache
- (2) Memory problems
- (3) Dizziness
- (4) Balance problems
- (5) Nausea or vomiting

(6) Difficulty concentrating

(7) Irritability

(8) Visual disturbances

(9) Other

2. Perform a physical examination on the casualty.

Note: There are 5 domains of neurological function: Orientation, Immediate Memory, Neurological Screening, Concentration and Delayed Recall.

a. Orientation.

(1) Ask the casualty to tell you the present month, date, and day of the week and time.

(2) Award 1 point for each correct response with a maximum of 5 points.

(3) Record the results.

b. Immediate memory.

(1) Ask the casualty to remember five words and repeat them in any order.

(2) Repeat this two more times for a total of three times.

(3) Award 1 point for each correct response for a maximum of 15 points.

c. Neurological screening.

(1) Check eyes for pupillary response and tracking.

(2) Check speech for fluency and word finding.

(3) Evaluate motor responses, gait and coordination.

(4) Do not award points for these, but record any abnormalities.

d. Concentration.

(1) Provide the casualty with four strings of numbers and ask him to repeat them back to you in reverse order.

(2) Ask the casualty to recite the months of the year in reverse order.

(3) Award 1 point for each string of numbers correctly repeated and 1 point for the correct reversed sequence of months for a maximum of 4 points.

(4) If the casualty fails to repeat the first two strings of numbers, stop and move to delayed recall.

e. Delayed recall.

(1) Ask the casualty to recall the five words from the previous memory test.

(2) Award 1 point for each correct response for a maximum of 5 points.

3. Compute the total score on the MACE screening tool and determine whether a concussion has occurred or not.
4. Refer the casualty for further evaluation if the score is below 25.

Note: Scores below 25 may represent clinically relevant neurocognitive impairment and require further evaluation for the possibility of a more serious brain injury.

(Asterisks indicates a leader performance step.)

**Evaluation Preparation:** Setup: For training and evaluation, use another Soldier to simulate a casualty with symptoms of a mild traumatic brain injury.

Brief Soldier: Tell the Soldier to screen the casualty using the MACE screening tool.

PERFORMANCE MEASURES	GO	NO-GO	N/A
1. Obtained a casualty history.			
2. Performed a physical examination.			
3. Computed the total score on the MACE screening tool and determined whether a concussion has occurred or not.			
4. Referred casualty for further evaluation if score was below 25.			

**Supporting Reference(s):** None

**Environment:** Environmental protection is not just the law but the right thing to do. It is a continual process and starts with deliberate planning. Always be alert to ways to protect our environment during training and missions. In doing so, you will contribute to the sustainment of our training resources while protecting people and the environment from harmful effects. Refer to FM 3-34.5 Environmental Considerations and GTA 05-08-002 ENVIRONMENTAL-RELATED RISK ASSESSMENT.

**Safety:** In a training environment, leaders must perform a risk assessment in accordance with FM 5-19, Composite Risk Management. Leaders will complete a DA Form 7566 COMPOSITE RISK MANAGEMENT WORKSHEET during the planning and completion of each task and sub-task by assessing mission, enemy, terrain and weather, troops and support available-time available and civil considerations, (METT-TC). Note: During MOPP training, leaders must ensure personnel are monitored for potential heat injury. Local policies and procedures must be followed during times of increased heat category in order to avoid heat related injury. Consider the MOPP work/rest cycles and water replacement guidelines IAW FM 3-11.4, NBC Protection, FM 3-11.5, CBRN Decontamination.

**Prerequisite Individual Tasks :** None

**Supporting Individual Tasks :** None

**Supported Individual Tasks :** None

**Supported Collective Tasks :**

Task Number	Title	Proponent	Status
N/A	N/A	Not Selected	Obsolete