

Initial Date: 5/31/2012
Revised Date: 05/30/2023
Section 7-14

Patient Assessment

Scene Size Up and General Impression

- 1. Recognize environmental hazards to rescuers, and secure area for treatment.
- 2. Recognize hazard for patient and protect from further injury.
- 3. Identify number of patients. Follow the **Mass Casualty Incident-Special Operations Protocol** if appropriate.
- 4. Observe position of patient, mechanism of injury, surroundings.
- 5. For pediatric patients, utilize the Pediatric Assessment Triangle.
- 6. Identify self.
- 7. Utilize universal precautions in all protocols.
- 8. Determine if patient has a valid Do-not-resuscitate bracelet/order or a valid MI POST.

Primary Survey

- 1. Airway:
 - A. Protect spine from movement in trauma victims. Provide continuous spinal precautions. Follow the **Spinal Injury Assessment-Treatment Protocol**.
 - B. Observe the mouth and upper airway for air movement.
 - C. Establish and maintain the airway. Follow the **Airway Management-Procedure Protocol.**
 - D. Look for evidence of upper airway problems such as vomitus, bleeding, facial trauma, absent gag reflex.
 - E. Clear upper airway of mechanical obstruction as needed.
- 2. Breathing: Look, Listen and Feel
 - A. Note respiratory rate, noise, and effort.
 - B. Treat respiratory distress or arrest with oxygenation and ventilation.
 - C. Observe skin color and level of consciousness for signs of hypoxia.
 - D. Expose chest and observe chest wall movement, as appropriate.
 - E. Look for life-threatening respiratory problems and stabilize.
 - F. Tension pneumothorax: Follow Pleural Decompression-Procedure Protocol.
- 3. Circulation
 - A. Check pulse and begin CPR if no central pulse. Follow **Pediatric or Adult**Cardiac Arrest-Treatment Protocol or Newborn and Neonatal Assessment and Resuscitation-Treatment Protocol.
 - B. Note pulse quality and rate; compare distal to central pulses as appropriate.
 - C. Control hemorrhage by direct pressure. (If needed, use elevation, pressure points or follow the **Tourniquet Application-Procedure Protocol** and/or **Bleeding Control-Treatment Protocol**.)
 - D. Check capillary refill time in fingertips.
 - E. If evidence of shock or hypovolemia begin treatment according to **Shock-Treatment Protocol.**
- 4. Level of consciousness:
 - A. Note mental status (AVPU)
 - a. Alert
 - b. Verbal stimuli response
 - c. Painful stimuli response

MCA Name:

MCA Board Approval Date: MCA Implementation Date: MDHHS Approval: 5/30/23



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d. Unresponsive

B. Measure Glasgow Coma Scale

Patient age > 2 years old

Patient age < 2 years old

Eye opening

Spontaneous	4	Spontaneous
To speech	3	To speech
To Pain	2	To Pain
No response	1	No response

Verbal response

Oriented and talking	5	Smiles, recognizes sounds, follows objects, interacts
Disoriented and talking	4	Cries, consolable, inappropriate interactions
Inappropriate words	3	Inconsistently inconsolable, moaning
Incomprehensible sounds	2	Agitated, restless, inconsolable
No response	1	No response

Motor response

Obeys command	6	Spontaneous movement
Localizes pain	5	Withdraws from touch
Withdraws to pain	4	Withdraws from pain
Flexion to pain	3	Abnormal flexion to pain
		(decorticate posturing)
Extension to pain	2	Abnormal extension to pain
		(decerebrate posturing)
No response	1	No response

Any combined score of less than eight represents a significant risk of mortality.

If the patient is not alert and the cause is not immediately known, consider:

A – Alcohol T – Trauma C - Cardiac E – Epilepsy H – Hypoxia I – Ingestion I – Insulin P – Psych E – Environmental

O – Overdose P – Phenothiazine S – Stroke

U – Uremia S – Salicylates S - Sepsis

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Section 7-14

5. The <u>secondary survey</u> is performed in a systematic manner. (Steps listed are not necessarily sequential.)

A. Vital Signs:

- a. Frequent monitoring of blood pressure, pulse, and respirations
- b. Temperature as appropriate and as indicated in protocol.
- © c. Blood glucose measurement as appropriate and as indicated by protocol. (May be MFR sill, see **Blood Glucose Testing-Procedure Protocol**).
- 😻 d. Pulse oximetry as appropriate and as indicated by protocol.
- e. ECG monitoring as appropriate and as indicated in protocol.
- f. 12 Lead as appropriate and as indicated by protocol (Per MCA selection, may be a BLS or Specialist procedure) follow 12 Lead ECG-Procedure Protocol.
- S g. Monitor capnography as appropriate and as indicted by protocol (refer to End Tidal Carbon Dioxide Monitoring-Procedure Protocol

B. Head and Face

- a. Observe and palpate for deformities, asymmetry, bleeding, tenderness, or crepitus.
- b. Recheck airway for potential obstruction: upper airway noises, dentures, bleeding, loose or avulsed teeth, vomitus, or absent gag reflex.
- c. Eyes: pupils (equal or unequal, responsiveness to light), foreign bodies, contact lenses, or raccoon eyes
- d. Ears: bleeding, discharge, or bruising behind ears.

C. Neck

- a. Maintain spinal precautions; follow the **Spinal Precautions-Procedure Protocol**, if appropriate.
- b. Check for deformity, tenderness, wounds, jugular vein distention, and use of neck muscles for respiration, altered voice, and medical alert tags.

D. Chest

- a. Observe for wounds, air leak from wounds, symmetry of chest wall movement, and use of accessory muscles.
- b. Palpate for tenderness, wounds, crepitus, or unequal rise of chest.
- c. Auscultate for bilateral breath sounds.
- d. Capnography/capnometry according to protocol

E. Abdomen

- a. Observe for wounds, bruising, distention, or pregnancy.
- b. Palpation.

F. Pelvis

a. Palpate pelvis for tenderness and stability

G. Extremities

- a. Observe for deformity, wounds, open fractures, and symmetry.
- b. Palpate for tenderness and crepitus.
- c. Note distal pulses, skin color, and medical alert/DNR tags.
- d. Check sensation.
- e. Test for motor strength if no obvious fracture present.

H. Back

a. Observe and palpate for tenderness and wounds.

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Section 7-14

Special Considerations:

- 1. If there is a specific mechanism of injury with only localized injury, a focused exam may be performed in lieu of the full patient survey provided the patient is alert.
- 2. Follow the appropriate protocol, per patient condition:
 - A. General Pre-hospital Care-Treatment Protocol
 - B. Newborn and Neonatal Assessment and Resuscitation Treatment Protocol
 - C. Cardiac Arrest-Treatment Protocol
 - D. Pediatric Cardiac Arrest-Treatment Protocol
 - E. General Trauma-Treatment Protocol
 - F. Spinal Precautions-Procedure Protocol
 - G. Crashing Adult/Impending Arrest-Treatment Protocol
 - H. Crashing Pediatric Patient/Impending Arrest-Treatment Protocol

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