

## Michigan PROCEDURES PATIENT ASSESSMENT

# 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.
  Circulation
- 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

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Section 7-14

# 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

- E Epilepsy
- I Insulin
- O Overdose
- U Uremia

- T Trauma
- I Ingestion P – Psych
- P Phenothiazine
- S Salicylates
- C Cardiac H – Hypoxia E – Environmental S – Stroke
- S Sepsis



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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.
    - 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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# 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