

Maryland EMS Clinicians Trauma Decision Tree

When in doubt, take patient to an appropriate Trauma Center

Measure vital signs and level of consciousness and assess for major injury

Category Alpha

- GCS less than or equal to 13
- For patients 10 years and older (including adults), systolic blood pressure less than 90 mmHg.
- For patients under 10 years of age, systolic blood pressure less than $70 + 2x$ age in years mmHg.
- Respiratory rate less than 10 or greater than 29 (less than 20 in infant age less than one year) or need for ventilatory support

YES

Transport to trauma center or specialty center per protocol; alert trauma team; consider helicopter transport if quicker and of clinical benefit (refer to GPC section I).

NO

Assess for other injuries.

Category Bravo

- | | | |
|--|---|--|
| <input type="checkbox"/> 2 or more proximal long-bone fractures | <input type="checkbox"/> Crush, degloved, mangled, or pulseless extremity | <input type="checkbox"/> Pelvic fracture |
| <input type="checkbox"/> Amputation proximal to wrist or ankle | <input type="checkbox"/> Open or depressed skull fracture | <input type="checkbox"/> Paralysis (spine) |
| <input type="checkbox"/> Chest wall instability or deformity (e.g., flail chest) | <input type="checkbox"/> Penetrating injuries to head, neck, torso, or extremities proximal to elbow and knee | |

YES

Transport to Trauma Center or Specialty Center per protocol; alert trauma team; consider helicopter transport if quicker and of clinical benefit (refer to GPC section I).

NO

Evaluate for evidence of mechanism of injury and high-energy impact.

Category Charlie

- | | |
|--|---|
| <input type="checkbox"/> High-risk auto crash <ul style="list-style-type: none"> • Intrusion (including roof) greater than 12 in. occupant site; greater than 18 in. any site • Ejection (partial or complete) from vehicle • Death in same passenger compartment • Vehicle telemetry data consistent with high risk of injury | <ul style="list-style-type: none"> • Rollover without restraint • Auto v. pedestrian/bicyclist thrown, run over, or with significant (greater than 20 mph) impact • Motorcycle crash greater than 20 mph |
| <input type="checkbox"/> Falls <ul style="list-style-type: none"> • Adult: greater than 20 feet (one story is equal to 10 feet) • Pediatric: greater than 10 feet or 3 times the child's height | <input type="checkbox"/> Exposure to blast or explosion |

YES

Transport to trauma center; alert trauma team. Patients within a **30-minute drive time** of the closest appropriate trauma/specialty center shall go by ground unless there are extenuating circumstances. **Receiving trauma center medical consultation required when considering whether helicopter transport is of clinical benefit** (refer to GPC section I).

NO

Evaluate for other considerations.

Category Delta

- | | |
|--|---|
| <input type="checkbox"/> Older Adults <ul style="list-style-type: none"> • Risk of injury/death increases after age 55 • SBP less than 110 may indicate shock after age 65 • Low - impact mechanisms (e.g., ground-level falls) may result in severe injury | <input type="checkbox"/> Burns <ul style="list-style-type: none"> • Without trauma mechanism, triage to burn center • With trauma mechanism, triage to trauma center |
| <input type="checkbox"/> Children
(Should be triaged to Pediatric Trauma Center) | <input type="checkbox"/> Pregnancy greater than 20 weeks
<input type="checkbox"/> EMS clinician judgment
<input type="checkbox"/> Anticoagulants and bleeding disorders
(Patients with head injury are at high risk for rapid deterioration) |

YES

Consider medical direction and transport to trauma center. Patients within a **30-minute drive time** of the closest appropriate trauma/specialty center shall go by ground unless there are extenuating circumstances. **Receiving trauma center medical consultation required when considering whether helicopter transport is of clinical benefit** (refer to GPC section I).

NO

Transport according to protocol.

Maryland Trauma/Specialty Referral Centers Quality Management Contacts

Adult Trauma Centers

PARC - Primary Adult Resource Center

R Adams Cowley Shock Trauma Center
Location: Baltimore, Maryland
Quality Management: (410) 328-2701
Email: stcems@umm.edu

LEVEL I Adult Trauma Center

The Johns Hopkins Hospital
Location: Baltimore, Maryland
Quality Management: (410) 614-4514

LEVEL II Adult Trauma Centers

Johns Hopkins Bayview Medical Center
Location: Baltimore, Maryland
Quality Management: TraumaQM@jhmi.edu

University of Maryland

Prince George's Hospital Center
Location: Cheverly, Maryland
Quality Management: (301) 618-3841

Sinai Hospital

Location: Baltimore, Maryland
Quality Management: (410) 601-7889

Suburban Hospital -

Johns Hopkins Medicine
Location: Bethesda, Maryland
Quality Management: (301) 896-3672

LEVEL III Adult Trauma Centers

Meritus Medical Center
Location: Hagerstown, Maryland
Quality Management: (301) 790-8366
Email: emsfeedback@meritushealth.com

Peninsula Regional Medical Center

Location: Salisbury, Maryland
Quality Management: (410) 543-7088

UPMC Western Maryland

Location: Cumberland, Maryland
Quality Management: (240) 964-3495

Pediatric Trauma Centers

The Johns Hopkins Hospital

Location: Baltimore, Maryland
Quality Management: (410) 502-0972

Children's National Medical Center

Location: Washington, DC
Quality Management: (202) 476-6726

Specialty Referral Centers

Johns Hopkins Bayview Medical Center Adult Burn Center

Location: Baltimore, Maryland
Quality Management: (410) 550-5928

The Johns Hopkins Hospital

Pediatric Burn Center
Location: Baltimore, Maryland
Quality Management: (410) 502-0972

MedStar Union Memorial Hospital Hand and Upper Extremity Trauma Center

Location: Baltimore, Maryland
Quality Management: (410) 554-4563

The Johns Hopkins Hospital

Wilmer Eye Trauma Center
Location: Baltimore, Maryland
Quality Management: (410) 614-1215

R Adams Cowley Shock Trauma Center Neurotrauma Center

Location: Baltimore, Maryland
Quality Management: (410) 328-2701
Email: stcems@umm.edu

R Adams Cowley Shock Trauma Center Center for Hyperbaric Medicine

Location: Baltimore, Maryland
Quality Management: (410) 328-2701
Email: stcems@umm.edu

Maryland Trauma Centers

