

Wyoming Trauma Program Indicators of Care

System

1. Trauma Team Activation - (Appropriate trauma team not activated)
2. Undertriage - (Patient not entered into trauma system by prehospital personnel or transferring facility)
Retrospective review - severe injuries, morbidity, or mortality
3. Overtriage - (Patients entered into trauma system by prehospital or hospital providers)
Retrospective review - minor injuries
4. Scene Time - (Prehospital personnel on scene > 10 minutes)
Not used in cases of prolonged extrication, multiple patients or delayed/difficult access to scene
5. Interhospital Transfer - (Patients not transferred in < 2 hours of hospital arrival)
6. General Surgeon Evaluation - (Patients admitted to hospital with significant blunt chest or multi-system trauma by subspecialists with no general surgery evaluation)
7. Neurosurgical Evaluation - (Not obtained for patients with GCS < 13)

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A,B,Cs

1. ABCs - *(Failure to follow airway, breathing, circulation priorities of patient management)*
2. Airway Management - *(GCS less than or equal to 8 and no intubation)
Prehospital transport time < 5 min exception*
3. Esophageal Intubation - *(Unrecognized placement of ETT in esophagus)*
4. Needle Thoracostomy - *(Failure to decompress chest for obvious tension pneumothorax with hemodynamic & respiratory compromise)*
5. Chest Tube Placement - *(No CT placement for pneumothorax or hemothorax within 15 minutes of diagnosis OR Inappropriate CT size used)*
6. Ventilation - *(For patients with airway management, persistent over or under ventilation within the first 12 hours - pCO₂ < 32 or > 50)*
7. Vascular Access - *(Inability to obtain vascular access in patient with unstable vital signs)*
8. Hemorrhage Control - *(Failure to control external bleeding)*

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Resuscitation

1. Pediatric Fluid Administration - *(Infusion > 50 cc/kg crystalloid solution in first 2 hours for child with normal vital signs)*
2. Blood Product Utilization - *(Failure to initiate blood products after 2 liters [20 cc/kg child] crystalloid bolus during initial resuscitation of patient with shock)*
3. Shock - *(Systolic BP < 70 mmHg for more than 2 hours after hospital arrival with no definitive intervention)*
4. Head Injury - *(Hypotension - systolic < 90 **OR** pCO₂ < 35 or > 40)*
5. Base Deficit - *(Base deficit > 8 after initial resuscitation, in adults)*
6. Hypothermia - *(Without adequate or protective warming measures)*
7. Delay - *(In transfer or operative procedure for hemodynamically unstable patients due to diagnostic imaging studies)*

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Spine & Extremity Immobilization/Evaluation

1. Spinal Immobilization - *(No prehospital spinal precautions initiated **OR** not maintained until adequately cleared)*
2. C-spine Clearance - *(C-spine not cleared radiographically in patients with altered mental status)*
3. Initial Radiographs - *(AP chest, pelvis not completed in ED for hemodynamically unstable blunt trauma patients)*
4. Splinting - *(No traction or splint applied for patients with long bone fractures)
Applicable for prehospital & hospital setting*
5. Fracture/Dislocation Reduction - *(Failure to attempt reduction of obvious extremity fractures or dislocations with lack of pulses)
Hospital setting*
6. Hip Dislocation - *(Failure to attempt reduction of hip dislocation within 6 hours of hospital arrival)*

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Other

1. Antibiotic Administration - *(Failure to administer IV antibiotics for open fractures or extensive loss of skin integrity)*
2. Delayed Diagnosis - *(Injury diagnosed greater than 24 hours after the initial traumatic event)*
3. Progression of Initial Neurological Insult
4. Rectal Exam - *(NO rectal exam documented prior to foley insertion in males)*
5. Unplanned Return to the OR
6. Readmission - *(Patient readmitted to hospital due to complication or incomplete injury management)*
7. Nutritional Support - *(NO nutritional support started within 48 hours of admission for patients with ISS >15 or ICU admission)*
8. Vascular Injury - *(Failure to diagnose major vascular injury within 8 hours of hospital arrival)*