

CLINICAL PATHWAYS

TRAUMA CLINICAL PATHWAY FOR UN CLINICS

Clinical Governance Section

Division of Healthcare Management and Occupational Safety and Health (DHMOSH)

Department of Operational Support (DOS)

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TRAUMA CLINICAL PATHWAY FOR UN CLINICS





PRIMARY SURVEY

This step is to be done from minute 0 to minute 20 since patient arrival to the health facility

 Re-evaluate as indicated after each resuscitative intervention

PERSON
RESPONSIBLE:

In less than 20 minutes





C:Catastrophic Hemorrhage	A: <u>Airway;</u> <u>Cervical Spine</u>	B: Breathing	C:Circulation	D: <u>Disability</u> , <u>Dextrose</u>	E. Exposure
Identify and control active exsanguination	Assess airway stability & protect as needed Oxygen, suction Be prepared for a difficult intubation	Assess Indications for Intubation Avoid hypoxemia, hyperventilation	Vascular access: IV access within 5 minutes of arrival (ideally x 2, with largest caliber possible). Consider escalation to intraosseous (IO), External Jugular (EJ), Femoral line or Saphenous Cut-Down early to optimize volume resuscitation	Neurological evaluation Identify intracranial hypertension and lateralizing findings on cranial nerve in motor exam, Identify signs of spinal cord injury. Consider hypoglycemia and toxins as a potential cause of reduced consciousness. Glasgow coma scale	Ensure full exposure (Remove all clothing) Maintain normothermia (blankets, warm fluids and blood products, maintain room temperature at 25 C)
LIFE- THREATHENING INJURY Hemorrhagic Shock: Blunt Trauma Penetrating Trauma Pelvic Fracture Long Bone Fracture Vascular Injury Massive Hemothorax	Maintain full spinal precautions Identify and immobilize patients at risk for cervical spine injury.	LIFE- THREATHENING INJURY 1. Altered mental status due to neurologic/circulatory etiologies. 2Airway obstruction 3Direct Airway Trauma 4Tension Pneumothorax 5Suspected Pneumothorax 6Pulmonary Contusion. 7Smoke inhalation	Rapid Fluid Administration: Recognize and treat hemorrhagic shock, Apply direct pressure to obvious hemorrhage. Follow IV escalation plan (isotonic crystalloid solution or o negative or type specific blood). Use blood products and rapid infusion early. Review other causes of shock if poor response (tension/hemothorax, cardiac tamponade/injury, severe abdominal trauma etc.)	LIFE- THREATHENING INJURY 1. Head/Intracranial Injury 2. Spinal Cord Trauma 3. Spinal Shock	Trauma laboratory: CBC, Blood type Basic metabolic panel Hepatic function panel Amylase Lipase Urinalysis, Serum drug screen test, Alcohol drug screen test if available





ONGOING CARE

Stabilization and considerations for MEDEVAC

- Imaging considerations- Prioritize triaging imaging (X-ray
 Cervical spine, chest, pelvis, injured extremities.)
- Consultations: Orthopedist, Intensive Care Specialist,
 Anesthetist, Telemedicine consultations with specialists not available at the facility when possible.
- Start MEDEVAC process immediately if CT scan, MRI or specialties not available at the facility are required.

PERSON RESPONSIBLE:

Within 20 minutes





SECONDARY SURVEY

Organized evaluation to identify all injuries

Any unexpected deterioration in
 ABCDE status requires re-assessment
 and intervention

PERSON RESPONSIBLE:

IMMEDIATE





SYSTEM	EXAM	
Head, Maxillofacial, ENT	Inspect and Palpate Head • Wounds - abrasions, lacerations, hematomas • Skull tenderness, depression, step-offs or midface instability	
	Subconjunctival hemorrhage, hyperemia, irregular iris, penetrating injury, contact lenses, pupil response Ears Signs of basilar skull fracture:	
C-spine & Neck	Inspect and Palpate, Open C-collar, maintain immobilization	
Chest	Inspect, Auscultate and Palpate	





Abdomen Inspect, Auscultate and Palpate

Softness/Rigidity, tenderness

Distended/Non-distended

Wounds

· Seat belt sign, handle-bar injuries

Bowel sounds

Pelvis Inspect and Palpate

Stability - minimize number of exams to avoid further injury

Wounds

Tenderness of iliac crest

Musculoskeletal Inspect and Palpate

• Swelling or deformities

Wounds

Tenderness on palpation

Sensory and motor function

Pulses and capillary refill

ROM

Neurologic Evaluate

Re-evaluation of mental status, GCS

Cranial nerve exam

Strength & sensation testing

Skin Inspect

Wounds (abrasions/contusions/lacerations/punctures)





REFERENCES

- 1. https://www.facs.org/Quality-Programs/Trauma/ATLS
- 2. https://www.who.int/emergencycare/trauma/essential-care/guidelines_traumacare/en/
- 3. https://www.who.int/violence_injury_prevention/publications/services/en/guidelines_traumacare.pdf
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