

Make early contact with ARV for advice from the major trauma services and to initiate retrieval.

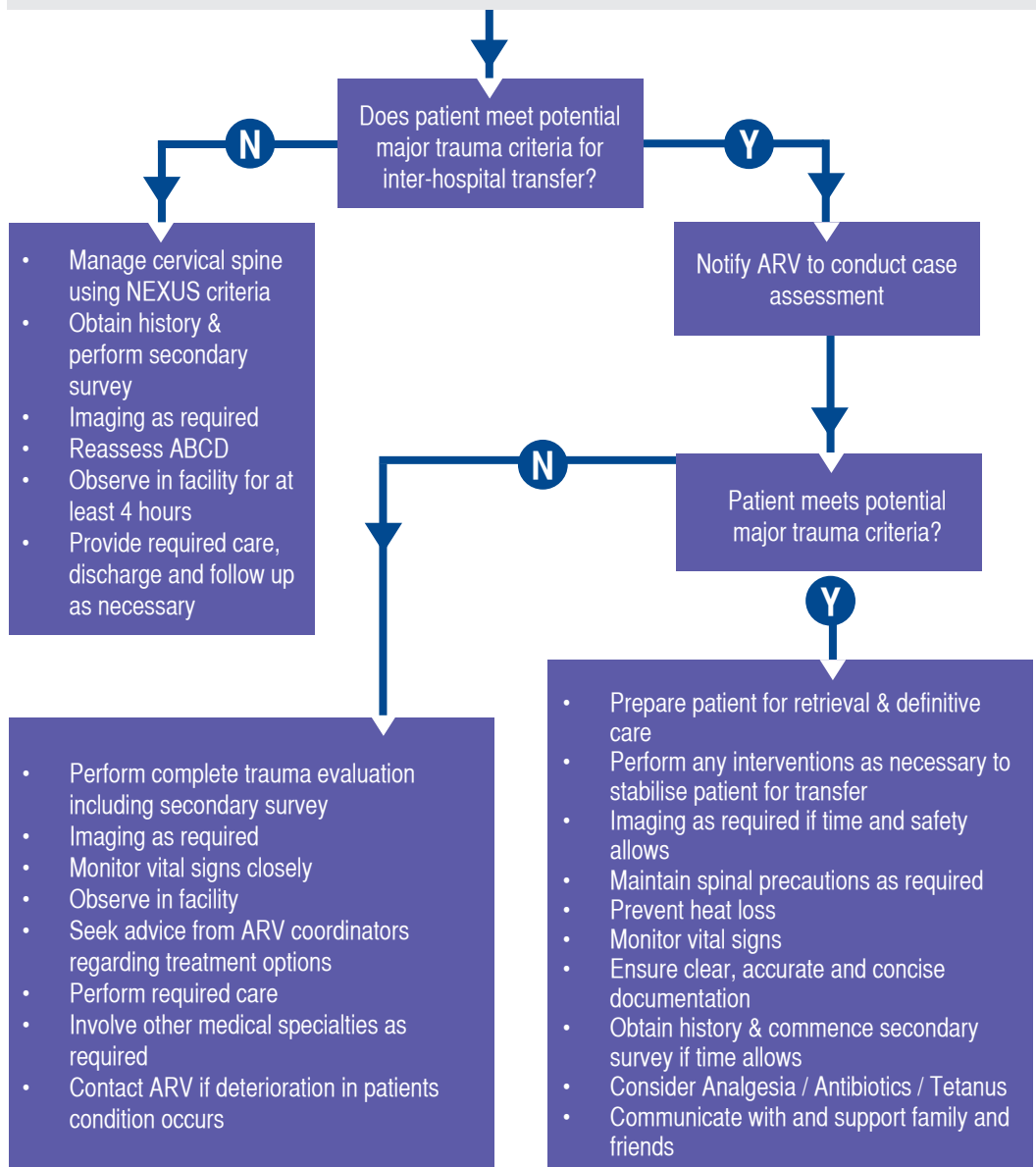
- Blunt and penetrating abdominal trauma have different care pathways.
- Delay in diagnosis and treatment of hollow viscous injury leads to an increase in mortality and morbidity.
- Indications for emergency laparotomy rely on haemodynamic instability.

Early Activation

- Gather vital information
- Activate Trauma Team
- Designate roles
- Set up to receive patient
- Ensure safety using PPE

Primary Survey

AIRWAY / C-SPINE	BREATHING	CIRCULATION	DISABILITY	EXPOSURE / ENVIRONMENT	ADJUNCTS
<ul style="list-style-type: none"> • Assess airway stability & protect as needed • Be prepared for intubation • Maintain full spinal precautions if suspected injury 	<ul style="list-style-type: none"> • Identify & treat life threats • Assess RR, work of breathing, SpO₂ & symmetry • Oxygen therapy to maintain SpO₂ between 94-98% • ETCO₂ monitoring if intubated, maintain btw 35-45mmHg 	<ul style="list-style-type: none"> • Insert x 2 large bore IV cannulas • IO access if required • Assess HR / BP / Cap refill • Initial management of hypovolaemia - crystalloid fluids, 20mL/kg, then consider blood products 	<ul style="list-style-type: none"> • Assess conscious level - AVPU • Check pupils • Test BSL 	<ul style="list-style-type: none"> • Fully expose and inspect patient • Prevent heat loss • Log roll 	<ul style="list-style-type: none"> • FAST scan • Analgesia • X-ray: Chest, Pelvis • Bloods – FBE, X-match, U&E, Lactate, ABG • 12 lead ECG • Orogastric tube if intubated • Urinary Catheter • AMPLE mnemonic



Key Points

- Consult ARV early regarding management**
- All penetrating abdominal injuries
 - Known or suspected fractured pelvis
 - Haemodynamic instability (BP<90)
 - Seatbelt injury
 - Rebound tenderness
 - Abdominal distention or guarding
 - Abdominal trauma with significant distracting injury
 - Positive FAST
 - Free air under the diaphragm
 - Significant gastrointestinal hemorrhage

Management Considerations

- Indications for emergency laparotomy**
- +ve FAST + hypotension (SBP <90) not responding to resuscitation.
 - Penetrating abdominal trauma + hypotension (SBP <90) not responding to resuscitation.
 - Peritonism (significant abdominal tenderness on palpation, involuntary guarding, percussion tenderness).
 - Free air under the diaphragm.
 - GSW traversing peritoneum or retro peritoneum.
- Imaging**
- **FAST**
 - » Sensitivity approaching 96% in detecting >800mls blood.
 - » Positive results from a FAST scan warrant further investigation and management in accordance with the patient's clinical status.
 - **CT abdo / pelvis**
 - » Allows haemoperitoneum to be identified and injuries graded.
 - » Permits evaluation of retroperitoneal structures including the kidneys, major blood vessels and bony pelvis.
 - » Contrast extravasation found on CT is a sign of active bleeding and is a strong predictor of failure of non-operative management.
 - » Where time and patient safety permits, CT prior to laparotomy. Unnecessary surgery may be avoided.