

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

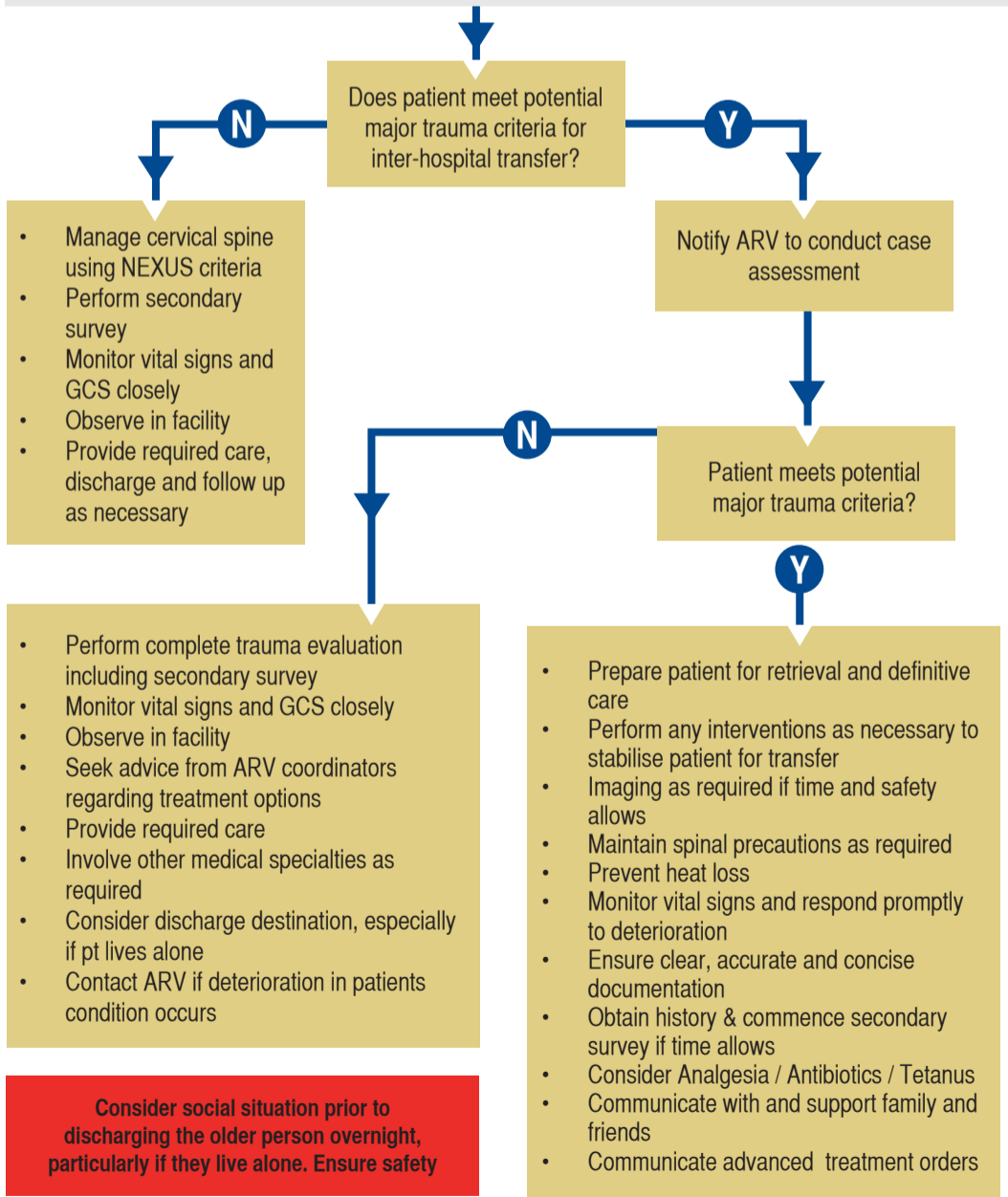
- Older patients are more vulnerable and less adaptable to physiological changes due to pre-existing health issues .
- A high index of suspicion of injury should be considered even with mild injury mechanism.
- Medications may mask signs of shock.

## 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"> <li>• Assess airway stability &amp; protect as required</li> <li>• May have diminished cough and gag</li> <li>• Care needed when inserting OPA/NPA</li> <li>• Incomplete, ill-fitting dentures may need to be removed prior to intubation</li> <li>• Maintain full spinal precautions</li> </ul>	<ul style="list-style-type: none"> <li>• Identify and treat life threats</li> <li>• Assess RR, work of breathing, SpO<sub>2</sub> &amp; symmetry</li> <li>• Oxygen therapy to maintain SpO<sub>2</sub> between 94-98%</li> <li>• ETCO<sub>2</sub> monitoring if intubated, maintain btw 35-45mmHg</li> </ul>	<ul style="list-style-type: none"> <li>• Insert x 2 large bore IV cannulas</li> <li>• IO access if required</li> <li>• Assess HR/BP/Cap refill</li> <li>• Initial management of hypovolaemia - crystalloid fluids, 20mL/kg, then consider blood products</li> <li>• Monitor the patient's physiological response</li> </ul>	<ul style="list-style-type: none"> <li>• Assess conscious level - AVPU</li> <li>• Check pupils</li> <li>• Test BSL</li> <li>• Note if patient is taking anti-coagulant medication</li> </ul>	<ul style="list-style-type: none"> <li>• Fully expose and inspect patient</li> <li>• Prevent heat loss</li> <li>• Log roll</li> </ul>	<ul style="list-style-type: none"> <li>• FAST scan</li> <li>• Analgesia</li> <li>• X-ray: Chest, Pelvis</li> <li>• Bloods – FBE, X-match, U&amp;E, Lipase, LFT, Lactate, ABG, Troponin</li> <li>• 12 lead ECG</li> <li>• Orogastric tube if intubated</li> <li>• AMPLE mnemonic</li> </ul>



**Consider social situation prior to discharging the older person overnight, particularly if they live alone. Ensure safety**

## Key Points

- Mechanism**
- Falls are the leading cause of trauma related mortality in the older person population, with low falls (<1m) steadily rising. Trauma may also have been preceded by a medical event.
  - A higher index of suspicion of injury should be maintained even with a seemingly innocuous mechanism of injury.
  - Older patients are twice as likely to have a spinal cord injury as a younger patient with the same mechanism. Degenerative changes and stiffening of the lower cervical spine make higher (C1-C2 and odontoid) fractures likely.
- Pre-existing illness**
- The older patient may be slower or unable to generate an adequate physiological response to shock.
  - Fluid resuscitation – administer 20ml/kg crystalloid fluid and observe the response, especially if the patient has a cardiac history.
- Medications**
- A combination of cardiac medication may blunt a patients response to trauma, masking the physiological signs of shock.
  - Patients taking oral anticoagulants have a higher risk of significant ICH due to minor head injury, with a higher frequency of bleeding and severity. A lower threshold to CT scan these patients should be considered.
  - A reduction in mortality of those with intracerebral haemorrhage is seen when the anticoagulation is rapidly reversed.

## Management Considerations

- Treatment orders**
- Established Advance Care Plans should be integrated into management strategies. Patient centred care should aim to preserve or improve quality of life, not simply extend it.
  - It is vital to consider the patients requests with relation to resuscitation as well as the possible futility of efforts. Early consultation with the patient and/or next of kin is essential to understand the patients' wishes.