



Pre – Transfer Stabilisation



Patient Assessment
Patient stabilisation
Identification of patients
at risk of deterioration

Overview



Get to know your patient

- There is <u>NEVER</u> an excuse not to know your patient
- Review
 - History of presenting complaint
 - Past medical history
 - Regular medications
 - Observations and trends
 - Interventions and treatments administered
 - Investigations
- Thorough A-E assessment

Airway

Must be both patent and protected for transfer

If in doubt **INTUBATE**

Indications for intubation

- GCS <8 or fluctuating
- Falling GCS by more than 2 points
- Patient agitation
- Seizure control
- Inadequate ventilation/oxygenation
- Facial injuries
- Facial burns





Airway

- Already intubated?
 - ETT size and length at lips
 - Airway grade
 - CXR to confirm position
 - Ensure adequately secured
- C-spine
 - History compatible with injury?
 - Cleared? By whom? Documentation
 - If in doubt IMMOBILISE



Breathing

- Spontaneous breathing
 - Does the patient need intubated?
- Ventilated
 - Do they need optimisation?
- Check ABG
- Monitoring



Chest drains

- Does the patient need a chest drain?
 - RIB FRACTURES + INVASIVE VENTILATION = consider <u>CHEST DRAIN</u> even in absence of visible pneumothorax
- In situ
 - <u>ALWAYS</u> keep <u>UNCLAMPED</u> during the transfer



Oxygen

- Oxygen supply
 - Piped and cylinder 0₂ supply
 - Transfer trolley 2x E cylinders
 - Ambulance 2x F cylinders
 - NIAS Transfer bag D cylinder
- Oxygen calculations
 - Allow TWICE expected 0₂ requirement
 - MV = TV x RR
 - Ventilator driving gas
 - Oxylog 3000+ = 0.5 L/min

 0_2 required (L) = 2 x transport time (min) x [(MV x Fi 0_2) + vent driving gas]



Circulation

- Resusitation goals adult
 - HR 60-100 bpm
 - SBP >100 mmHg MAP >65 mmHg
 - CRT <2s
 - UO > 0.5 mls/kg/hour
 - Euvolaemic
 - Vasopressor requirements stable
- Paediatric goals dependent on age/weight



Circulation

- IV access
 - At least x2 wide bore IV access
 - CVC position checked on CXR
- Monitoring
- Infusions



Bleeding

- Expedited Transfer
- Transfer after Stabilisation
- Blood products
- Anticoagulants



• Is conscious level adequate? Is intubation indicated?

Neurology

- Drugs
 - Sedation
 - Analgesia
 - Muscle relaxant



Exposure

- Temperature
- Pressure points
- Lines
- ATLS Secondary survey



Fluids and electrolytes

- Resuscitation goals
 - <u>DO NOT</u> attempt rapid sodium correction unless active seizures
 - K⁺ 4-5 mmol/L
 - Mg >1
 - Glucose 6-10 mmol/L
 - pH >7.25
- Fluids
- NGT



Infection

- Infection control issues in local hospital
 - Multiresistant/transmissible organism outbreaks
- Patient specific issues
 - MRSA status
 - Transmissible infection
 - Covid-19
- Active infection
 - Antibiotics given
 - Cultures taken



Infusions and drugs

- Rationalise
- Syringe drivers
- Allow enough for **DOUBLE** the journey
- Identify bolus port and ensure accessible

Pre-transfer Check list 1. Is patient stable for transport?

Airway

- Airway safe or secured by intubation
- Tracheal tube position confire d on thest x ray

Ventilation

- Adequate spontaneous respiration or ventilation established on transport ventilator
- · Adequate gas exchange confire d by arterial blood gas
- · Sedated and paralysed as appropriate

Circulation

- · Heart rate, BP optimised
- · Tissue & organ perfusion adequate
- · Any obvious blood loss controlled
- · Circulating blood volume restored
- Haemoglobin adequate
- · Minimum of two routes of venous access
- · Arterial line and central venous access if appropriate

Neurology

- · Seizures controlled, metabolic causes excluded
- · Raised intracranial pressure appropriately managed

Trauma

- Cervical spine protected
- Pneumothoraces drained
- · Intra-thoracic & intra-abdominal bleeding controlled
- Intra-abdominal injuries adequately investigated and appropriately managed
- · Long bone / pelvic fractures stabilised

Metabolic

- Blood glucose > 4 mmol/l
- Potassium < 6 mmol/l
- · Ionised Calcium > 1 mmol/l
- Acid base balance acceptable
- Temperature maintained

Monitoring

- ECG
- Blood pressure
- Oxygen saturation
- · End tidal carbon dioxide
- Temperature

Checklist 1

Is the patient stable for transfer?





Summary

- No excuse for not knowing your patient
- Review presentation history and past history
- Thorough A-E assessment
- Adequate resuscitation pre transfer essential
- Adequate preparation pre transfer essential