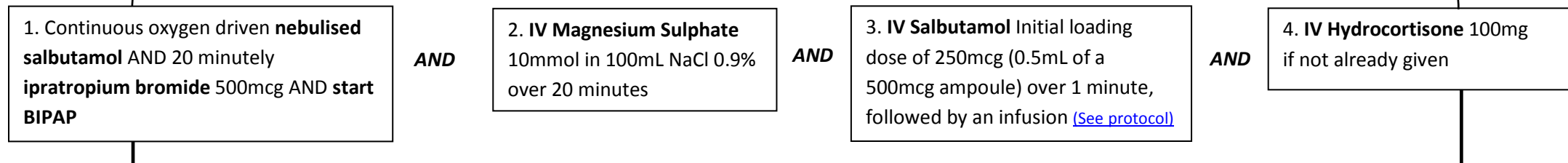
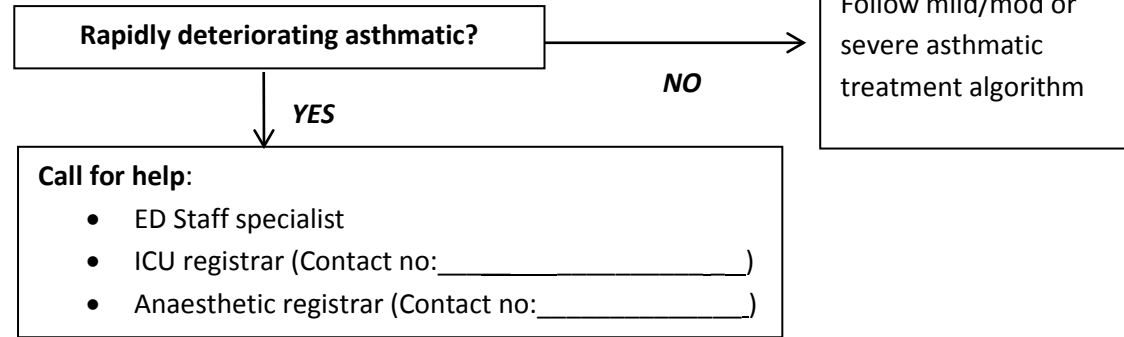


Emergency Department Flowchart for the Management of Life Threatening Asthma



BIPAP Settings (guidelines only):
 FiO2 1.0, IPAP 10, EPAP 5
 Urgent VBG

BIPAP not tolerated or patient deteriorating and on maximal medical therapy?

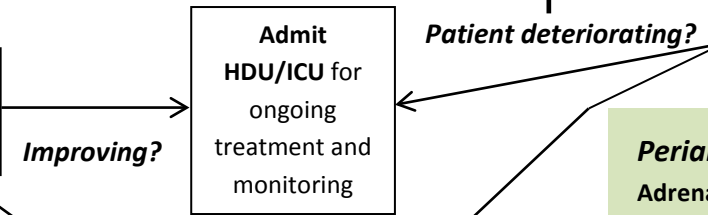
Monitor & treat:

Salbutamol side effects

- Hypokalaemia
- Lactic acidosis
- Tachyarrhythmias (rare if given MgSO4 prior)

Magnesium side effects

- Flushing
- Hypotension & respiratory depression (rare in doses advised)



Intubate and ventilate

RSI in position of comfort then lay flat.
 Induction with Ketamine 2mg/kg IV
 Paralyse with Suxamethonium 1.5mg/kg IV
 Optimally fluid load, anticipate need for ALS

Maintenance of sedation and paralysis

Propofol infusion
 Rocuronium 50mg IV

Admit ICU

Ventilator Settings (guidelines only):

SIMV – volume control, FiO2 1.0, RR 8, TV 6-8mL/kg (ideal body weight), PEEP 0-5cm H2O, I:E ratio 1:4, plateau pressure <30 cmH2O

Periarrest

Adrenaline:
 0.5ml (500mcg) of 1:1000 IM
 OR
 5mL (500mcg) of 1:10,000 IV given slowly from a minijet

- Consider adrenaline infusion

Presents in cardiac arrest

- Start ALS
- Intubate and ventilate
- Medical treatments 1-4
- Consider adrenaline infusion post ROSC (if not already started)
- Investigate for pneumothorax

Deteriorates on ventilator

- Immediately disconnect ventilator & allow expiration
- Attach bag at 15L/min O2 & gently ventilate
- Assess **MASH & DOPES**
- Treat reversible causes
- Consider ECMO in consultation with Intensivist / Anaesthetist.

MASH: Movement of chest, Arterial sats, Skin colour, Haemodynamic stability

DOPES: Displacement or Obstruction of ETT, Patient factors (inadequate sedation/paralysis, pneumothorax, bronchospasm), Equipment (ventilator problems), breath Stacking