## **Sepsis**

## Recognition (see PIER Sepsis Screening Tool) SBP/ HR RR DBP Suspected infection Age Poor peripheral perfusion High High 0 mins Temperature <36°C or > 38.5°C Low Lactate >2 Tachycardia / Tachypnoea Low DIASTOLIC pressure and/or <70 Term to 1 Altered neurological status >160 Systolic hypotension (late sign) >50 month <30 1 month <90 >150 >45 Resuscitation to 1 year <35 High flow O<sub>2</sub> 5 mins <100 1-4 Intravenous/Intraosseous access x 2 >140 >40 years <45 5 to 20ml/kg isotonic fluid bolus titrated to effect Ceftriaxone 80mg/kg [Max 4g] (neonate/immunocompromised see microguide) 5-12 <105 >120 >25 years <50 **Investigations** > 13 <115 >100 >20 Bloods: Venous gas (including glucose & lactate), cultures, FBC, U&E, LFT, vears <60 Coagulation, CRP, Group & Save, assess ECG rhythm Evaluate fluid resuscitation – Are there signs of... **COLD SHOCK WARM SHOCK** Hepatomegaly No response to fluid Crackles on auscultation Worsening HR/RR CRT < 3 seconds or CRT > 3 seconds Rising lactate after fluid Worsening perfusion normal NO YES **Bounding Peripheral** Weak Peripheral Pulses **Pulses** (low cardiac output) (high cardiac output) 15 mins Is there resolution of **FLUID REFRACTORY SHOCK Call SORT for advice** shock? Cold extremities Warm around the edge Start peripheral adrenaline at Appropriate HR/RR for age Good peripheral perfusion 0.1microg/kg/min Palpable peripheral pulses Narrow Pulse Pressure Wide Pulse Pressure BP in range for age Serum lactate ≤ 2 mmol/L Prepare for Intubation & Ventilation NO YES Ensure peripheral adrenaline infusion running pre-induction Ketamine induction (start with 1mg/kg) & Rocuronium Admit Repeat Rescue dose adrenaline (0.5 to 1ml rescue diluted adrenaline made up as per SORT drug calculator) and titrated to BP/pulse volume **Titrated** to Use cuffed oral ET tube of appropriate size Fluid Bolus ward Use SORT emergency induction of anaesthesia guideline Consider early HDU level PREPARE FOR DETERIORATION care call to SORT for inotropes Max additional Attempt central venous access of 40ml/kg 60 mins Warm Shock Cold Shock Is there resolution of shock? Appropriate HR/RR for age Noradrenaline **Adrenaline** Good peripheral perfusion 0.1 microg/kg/min 0.1 microg/kg/min Palpable peripheral pulses BP in range for age Max. 1 microg/kg/min Max. 1 microg/kg/min Serum lactate < 2 mmol/L Add either Noradrenaline or Adrenaline if still NO YES hypotensive: Ensure SORT update Admit to ward **Inotrope Resistant Shock** HDU level care

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Consider Hydrocortisone: 2.5mg/kg neonates & 1mg/kg child [max 100mg]

**Discuss with SORT**