## Sepsis & Septic Shock Algorithm

This clinical pathway is intended to supplement, rather than substitute for, professional judgment and may be changed depending upon a patient's individual needs. Failure to comply with this pathway does not represent a breach of the standard of care.

See 32. Sepsis & Septic Shock Diagnostic Criteria TO BE COMPLETED WITHIN 1 HOUR OF IDENTIFICATION OF SEPSIS/SEPTIC SHOCK Monitor, support ABCs • Check vital signs (BP, PR, RR, SPO<sub>2</sub>, T° C, RBS) • Start Oxygen IF SPO2 < 94%. Maintain SPO2 ≥ 94% • Establish IV Access and send samples for FBC, MPS, LFTs, UEC, VBG, Serum lactate • Perform brief, targeted history, physical exam • Obtaining appropriate cultures before antimicrobial therapy is initiated if such cultures do not cause significant delay in the start of antimicrobial(s). Draw 2 sets of blood cultures 10mL each (both aerobic and anaerobic bottles) from different sites. • Administer 30ml/kg NS or RL for Hypotension or Lactate ≥ 2 mmol/L Give ANTIBIOTICS - Ceftriaxone 2gm IV stat - For probable Neutropenic patients or if patient has been admitted in hospital in the last 3 months (Hospital Acquired Infection) . Imipenem 500 mg IV infusion over 3 hrs then QID for general sepsis • Meropenem 1gm IV infusion over 3 hrs then TDS for possible CNS infections • Give antipyretic if indicated (Paracetamol 1gm IV) CXR; Urinalysis + MCS; ? Stool MCS; ? CSF MCS Monitor urine output hourly Repeat vital signs (BP, MAP, PR, RR, SPO<sub>2</sub>, T°C, Serum lactate) after 1 hour Features of SHOCK despite adequate fluid resuscitation (> 30ml/kg)? □ MAP < 65mmHg</p> □ Signs of Shock (tachypnoea, cool clammy skin, cool peripheries, hypotensive, tachycardia) □ Urine output < 0.5mL/kg/hour □ Hyperlactatemia (> 2 mmol/L) SEPTIC SHOCK Consult a Physician **Consider Admission** . Consult a Physician and continue with the algorithm •Start peripheral vasopressors if MAP < 65mmHg in the face of life-threatening hypotension, even when hypovolemia has not yet been resolved -Norepinephrine (0.1-1.3 µg/kg/min) and/or Adrenaline (0.05-0.3µg/kg/min). Titrate vasopressors to a MAP ≥ 65 mmHg to preserve tissue perfusion. Hemodynamic stability achieved with adequate fluid resuscitation (> 30ml/kg) and vasopressor therapy? □ MAP < 65mmHg
</p> Admit HDU/ICU □ Signs of shock as above □ Urine output < 0.5mL/kg/hour □ Hyperlactatemia (> 2 mmol/L) Give Hydrocortisone 200mg IV bolus • Give Dobutamine infusion up to 20 µg/kg/min (+ vasopressor if in use) in the presence of; Evidence of tissue hypo perfusion persists despite

Yes

Admit HDU/ICU

adequate intravascular volume and adequate MAP?

□ Hyperlactatemia (> 2 mmol/L)

Decreased capillary refill or mottling



a) myocardial dysfunction as suggested by elevated

cardiac filling pressures and low cardiac output, or

adequate intravascular volume and adequate MAP

b) ongoing signs of hypo perfusion, despite achieving