

Identification & Treatment of Severe Sepsis and Septic Shock

Based on the CMS Sepsis Core Measure and guidelines provided by the Surviving Sepsis Campaign (SSC)

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Severe Sepsis/Septic Shock Definitions	Treatment Overview
 Severe Sepsis/SepticSnock Definitions Severe Sepsis present when the following three are met within 6 hours of each other: Presence of infection/suspected infection Two or more Systemic Inflammatory Response Syndrome (SIRS) criteria Temp > 100.9°F (38.3°C) or < 96.8°F (36°C) HR > 90 bpm RR > 20 per min WBC count > 12000 or < 4000 or > 10% bands One or more signs of organ dysfunction* Lactic acid > 2 and <4 Hypotension** Creatinine > 2 Urine output < 0.5 ml/kg/hr x 2 hrs Bilirubin > 2 mg/dl PLT count < 100,000 INR > 1.5 aPTT > 60 Acute respiratory failure requiring a new need for invasive or non-invasive mechanical ventilation Septic Shock present when both of the following are met within 6 hours of each other: Lactic acid ≥ 4 	After identification of Severe Sepsis and/or Septic Shock, patient receives all of the following: Within 3 hours of presentation time • Lactic acid – initial specimen collected • Blood culture prior to IV antibiotics – specimen collected • IV antibiotic(s) initiated • Crystalloid fluid bolus (30 ml/kg Lactated Ringer's (LR) or 0.9% NaCl (NS) initiated) – if hypotension** present and/or initial lactic acid ≥ 4 Within 6 hours of presentation time • Repeat lactic acid – if initial level > 2 If Septic Shock identified, patient receives the following in addition to those listed above: Within 6 hours of presentation time • Focused exam (.SEPSISFOCUSEDEXAM) Physician/APN/PA note that is documented after the crystalloid fluid bolus was started and must include all of the following: • Review of VS: Must include temp, HR, RR and BP. Nursing may obtain VS • Cardiopulmonary evaluation: Includes heart and lung evaluations. Performed by Physician/APN/PA • Capillary refill: Performed by Physician/APN/PA • Peripheral pulse evaluation: Performed by Physician/APN/PA
 Hypotension** occurring in the hour following crystalloid fluid bolus Notes If clinical criteria for Severe Sepsis/Septic Shock are not met, Physician/APN/PA documentation of Severe Sepsis/Septic Shock will be designated as the presentation time. If clinical criteria are met prior to Physician/APN/PA documentation, the presentation time will be the time that the last clinical criteria is met. *Organ dysfunction caused by a chronic condition or medication is not included **Hypotension = SBP < 90 or MAP < 65 or decrease in SBP by > 40 from last SBP considered normal for patient **Persistent hypotension = Two or more consecutive BP readings of SBP < 90 or MAP < 65 or decrease in SBP by > 40 from last SBP considered normal for patient, in the hour immediately following crystalloid fluid bolus 	 Physician/APN/PA OR any two of the following- Central venous pressure measurement – CVP may be documented by RN Central venous oxygen saturation (ScvO2) – Documentation that specimen was obtained from central line Cardiovascular ultrasound – Physician/APN/PA, RN or US tech documentation of date/time that test was performed Passive leg raise <u>OR</u> fluid challenge: Passive leg raise must be performed and documented by Physician/APN/PA Fluid challenge – LR or NS bolus (500ml/15 min or 1000ml/30 min) If Septic Shock with persistent hypotension***, also receives within 6 hours of presentation time Vasopressors – initiated, must include one/more of the following: Norepinephrine (LEVOPHED), phenylephrine (NEOSYNEPHRINE), dopamine, epinephrine, vasopressin (PITRESSIN)

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