NCCC Guidelines for Management of Late Onset (≥ 7 DOL) Neonatal Sepsis

SUSPECT SEPSIS

**OBTAIN TWO BLOOD CULTURES FROM DIFFERENT SITES:**
One peripheral and one central (if available) or two different peripheral sites
Obtain catheterized urine culture & consider lumbar puncture

BEGIN ANTIBIOTICS: Use Oxacillin & Gentamicin
- Consider vancomycin instead of oxacillin for gram positive coverage if invasive lines or foreign bodies, recent invasive procedures, or history of ORSA
- For gram negative coverage in infants with renal insufficiency, consult Pediatric Pharmacy and consider dosing gentamicin (based on gentamicin levels) or ceftazidime/cefeipime*
- Consider oxacillin and ceftazidime OR cefeipime* for suspected meningitis
* Cepeipime alone has good activity against gram positive and gram negative organisms and does not need to be paired with oxacillin for empiric antibiotic therapy

POSITIVE URINE AND/OR CSF CULTURE

Treat per sensitivities

Blood Culture Results

- Any Culture
  - **POSITIVE**
    - Coagulase Neg Staph?
      - **YES**
        - One Positive
          - REPEAT culture
          - ASSESS patient
      - **NO**
      - **YES**
      - **Both Positive**
        - Change to VANCOMYCIN & await sensitivities

- **NEGATIVE**
  - **IMPROVING**
    - Patient condition?
  - **NOT IMPROVING**
    - Consider consulting Peds ID OR broadening coverage for:
      - Anaerobes → Flagyl
      - NEC → Ampicillin & Gentamicin ± Flagyl
      - Pseudomonas → Ceftazidime & Gentamicin
      - Fungus → Fluconazole
      - HSV → Acyclovir
      - CMV → consider Ganciclovir
    - Consider the need for contact precautions / isolation if there is concern for potentially communicable disease.

Blood Culture Results

- **IMPROVING**
  - Patient condition?
- **NOT IMPROVING**
  - **NOT IMPROVING**
  - **POSITIVE URINE AND/OR CSF CULTURE**
  - **NEGATIVE**
    - **IMPROVING**
      - Get culture results
      - **IMPROVING**
        - Patient condition?
      - **NOT IMPROVING**
        - Consider consulting Peds ID OR broadening coverage for:
          - Anaerobes → Flagyl
          - NEC → Ampicillin & Gentamicin ± Flagyl
          - Pseudomonas → Ceftazidime & Gentamicin
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          - HSV → Acyclovir
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        - Consider the need for contact precautions / isolation if there is concern for potentially communicable disease.

Repeat Blood Culture