# Antibiotic Management in Neonatal Patients with Sepsis Work Up

### Gestational **Age > 36 weeks**

**Exclusion**: Definite signs andsymptoms of sepsis (shock on admission) or premature infants will not be

candidates for algorithm. **Lab confirmed BSI: (**recognized pathogen cultured from blood). Infant will not be a candidate for algorithm (due to definite infection).

##### Suspect Sepsis

 **if**:

 Maternal risk factors†

 Soft infection signs (tachypnea etc)

Start Empiric Antibiotic**‡**

Obtain: Initial BCx (1 cc min/2 Cx if central line) UCx (if over 1 week of age),

Consider LP (if symptomatic or BCx+)

**Labs**: Obtain serial CBC w diff, and CRP per algorithm Obtain HSV Cx, FA stain and serum/CSF PCR if herpes suspected

**‡Empiric Abx**:

Ampicillin (100-200mg/kg/day)/

Gent (3.5mg/kg/day). If renal failure/ poss meningitis Cef (100-200mg/kg/da)

Acyclovir (60mg/kg/day) if indicated by hx/exam or age (>1 week old)

**†Maternal risk factors:**

>18 h ruptured membranes

fever/chorioamnionitis

GBS positive or unknown

On Abx at delivery (any

 length of treatment)

**\*Abnormal Labs** (more than one!):

**CBC:** I/T ratio Term >0.2 (Pret >0.16) PMNs <1750 Bands >2000WBC <5000

**IL:** >10 pg/mL **CRP ≥** 1mg/dL

 **MUST** have >1 abnormal value or 1 **plus** mat risk factor present

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Normal

## Possible Infection

* continue work-up/Check labwork
* monitor for signs of infection (Feeds intol, BP, hypoxia etc) continue antibiotics
* Continue antibiotics

**Check initial Cx @ 48h hrs**

#### Cx Positive

Adjust Abx to C/S

1st CBC @ 0 hrs

**Cx Negative But \***Abnormal lab test**s,** clinical status or CXR

#### Clinical Infection Treat with Abx 7 days

**Pneumonia** Treat w Abx 7-10 days

 1st CRP and 2nd CBC at-12hrs ,

Abnormal

Abnormal

#### Sepsis/Meningitis Treat:

####  Blood Cx+ Abx 7-14 days

 CSF Cx+ Abx 14-21 days

**Cx Neg** or Contaminated

**Infection ruled out**

**Discontinue Antibiotics**

2nd CRP and 3rd CBC @ 36hrs hrs

Normal

**Plus** Normal labs, clinical

status and CXR (if done)

Abnormal

Normal