



**Regional Order Set**

**Pediatric Sepsis**

0 Days of Age to 28 Days of Age

Last Name:			
First Name (Preferred Name):			
Encounter number:	NH Number:	Chart Created: Y/N	
Date of Birth:	Gender:	Age:	Encounter Type:
Responsibility for Payment:		PHN:	
Primary Care Physician/Attending Physician:			
<b>PATIENT LABEL</b>			

<b>Allergies:</b> <input type="checkbox"/> None Known <input type="checkbox"/> Unable to Obtain List with Reactions: _____	<b>Weight:</b> _____ kg <b>Height:</b> _____ cm
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**Call BC Patient Transfer Network to arrange consult, advise call or transfer to higher level of care 1-866-233-2337**

**This order set is not intended for patients with febrile neutropenia**

**All orders considered STAT and to be completed within 40 minutes of initiation**

**1. CONSULTS**

- Pediatrician (if local/on-call pediatrician not available contact CHARLiE Real Time Virtual Support via Zoom at charlie1@rccbc.ca)

**2. PATIENT CARE**

- establish IV access x 2; if unable to insert IV within 5 minutes or after 2 failed attempts establish intraosseous (IO)
- point of care blood glucose immediately, then q2h
- apply oxygen to maintain saturations above 92%
- strictly monitor input and output
  - urinary catheter
  - apply end tidal CO<sub>2</sub>

**3. DIET**

- NPO

**4. MONITORING**

- assess BP, HR, respiratory rate (RR), SpO<sub>2</sub>, cap refill, level of consciousness (LOC) q10min
- temp q1h
- reassess vitals after each fluid bolus and continue vital sign monitoring and pediatric assessment as per Pediatric Early Warning Score (PEWS) guidelines
- continuous cardiorespiratory and SpO<sub>2</sub> monitoring

**5. IV FLUIDS**

Bolus IV Fluid Resuscitation (isotonic crystalloid fluid)

- NS \_\_\_\_\_ mL IV/IO over \_\_\_\_\_ minutes (10 to 20 mL/kg over 5 to 10 minutes)
  - may repeat q10min x 2 boluses if vital signs remain abnormal and no signs of fluid overload
  - notify physician prior to each additional resuscitation bolus

OR

- LR \_\_\_\_\_ mL IV/IO over \_\_\_\_\_ minutes (10 to 20 mL/kg over 5 to 10 minutes)
  - may repeat q10min x 2 boluses if vital signs remain abnormal and no signs of fluid overload
  - notify physician prior to each additional resuscitation bolus

Maintenance IV Fluids

- D10NS IV/IO \_\_\_\_\_ mL/hour

**(do NOT substitute with hypotonic solution)**

**Prescriber Signature:** \_\_\_\_\_ **College ID:** \_\_\_\_\_ **Date:** \_\_\_\_\_ **Time:** \_\_\_\_\_

10-111-5389 (IND - VPM/RDP - Rev. 09/21) Review by December 2024

**~ Do NOT photocopy or alter electronically. Print new copies directly from OurNH Order Set Site ~**





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**6. LABORATORY**

- CBC w/diff
- CRP
- E7 (Na, K, CO<sub>2</sub>, Cl, Cre, Urea, Glu), ionized calcium, Mg<sup>2</sup>, PO<sub>4</sub>
- lactate
- total bilirubin, AST, ALT, PT, PTT, fibrinogen
- blood culture
- venous blood gas
- urinalysis, urine culture and sensitivity (do not delay first antibiotic administration)
- blood group and screen

- Cerebrospinal Fluid
  - cell count with differential
  - gram stain and culture
  - glucose
  - protein level
  - BioFire NAT panel
- Nasopharyngeal Flocked Swab
  - respiratory NAT panel
- Stool
  - fecal leukocytes (if diarrhea present)
  - culture

**7. DIAGNOSTICS**

- chest X-ray
- electrocardiogram, 12 lead
- echocardiogram

**8. MEDICATIONS**

Empiric antibiotic recommendations

Empiric antimicrobial orders require reassessment when new clinical/laboratory information become available.

Unknown source: (**ampicillin** PLUS either **cefotaxime** OR **gentamicin**)

Select age dependent option

- For patients less than or equal to 7 days of age
  - **ampicillin** \_\_\_\_\_ mg (100 mg/kg/dose) IV/IO q8h  
 PLUS (select either **cefotaxime** OR **gentamicin**)
    - cefotaxime** \_\_\_\_\_ mg (50 mg/kg/dose) IV/IO q12h
    - OR
    - gentamicin** \_\_\_\_\_ mg IV/IO q \_\_\_\_\_ h

Age 0 to 7 days (gestational age)	Extended interval dosing (via syringe pump)	Traditional dosing (IV push)
Less than 30 weeks	5 mg/kg x 1 dose	2.5 mg/kg/dose q24h
30 to 34 weeks	4 mg/kg/dose q36h	2.5 mg/kg/dose q18h
35 weeks and greater	4 mg/kg/dose q24h	2.5 mg/kg/dose q12h

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- For patients greater than 7 days of age
- **ampicillin** \_\_\_\_\_ mg (75 mg/kg/dose) IV/IO q6h  
PLUS (select either **cefotaxime** OR **gentamicin**)
  - cefotaxime** \_\_\_\_\_ mg (50 mg/kg/dose) IV/IO q8h
  - OR
  - gentamicin** \_\_\_\_\_ mg IV/IO q \_\_\_\_\_ h

Greater than 7 days of age (gestational age in weeks + postnatal age in weeks)	Extended interval dosing (via syringe pump)	Traditional dosing (IV push)
Less than 30 weeks	5 mg/kg x 1 dose	2.5 mg/kg/dose q24h
30 to 34 weeks	4mg/kg/dose q24h	2.5 mg/kg/dose q24h
35 weeks and greater		2.5 mg/kg/dose q12h

Suspected CNS source: (**ampicillin PLUS cefotaxime PLUS acyclovir**)

Select age dependent option

- For patients less than 7 days of life
- **ampicillin** \_\_\_\_\_ mg (100 mg/kg/dose) IV/IO q8h  
PLUS
  - **cefotaxime** \_\_\_\_\_ mg (50 mg/kg/dose) IV/IO q12h  
PLUS
  - **acyclovir** \_\_\_\_\_ mg (20 mg/kg/dose) IV/IO q8h
- For patients greater than or equal to 7 days of life
- **ampicillin** \_\_\_\_\_ mg (75 mg/kg/dose) IV/IO q6h  
PLUS
  - **cefotaxime** \_\_\_\_\_ mg (50 mg/kg/dose) IV/IO q8h  
PLUS
  - **acyclovir** \_\_\_\_\_ mg (20 mg/kg/dose) IV/IO q8h

Antipyretics

- acetaminophen** \_\_\_\_\_ mg (10 to 15 mg/kg/dose) PO/PR q4h PRN for temp greater than 38°C (max 60 mg/kg/24 h)

Oral suspension must be used for PR administration in neonates

**EPINEPHrine** Infusion

- start **EPINEPHrine** infusion 0.05 mcg/kg/min IV/IO
- titrate rate up by 0.02 mcg/kg/min to a max of 1 mcg/kg/min