# **MSH Emergency Department**

# **Pediatric CAP Pathway**

Date Created: 10/14/2021

**Date Reviewed:** 

Reviewed By: S Bhadiraju, M Boyle, A Buttigieg, L Douglas, J Fune, N Hodo,

D Lee, A Lim, L Ngai, R Posada, L Spina, J Tokarski, C Tran, L Zinns

### History and physical exam Tachypnea Hypoxia (O2 sat <94% on room air) Cough Retractions and/or nasal flaring Focal rales/crackles · Chest pain Abdominal pain Note: Mycoplasma/atypicals may have Insidious onset (5-7 days) Headache, malaise, sore throat, prominent cough Diffuse rales on auscultation Note: Pertussis may have Paroxysmal. prolonged cough Post-tussive emesis Clinical severity Mild (ALL of the following) No retractions, grunting, nasal flaring, apnea O2 saturation > 90% RA Non-toxic appearance Tolerating orals No concerns for follow-up Moderate (>1 of the following) Age <3 months</li> Dyspnea or retractions O2 saturation <90% RA Not tolerating orals Failure of appropriate antibiotic therapy for ≥48 hours Concern for poor follow-up Moderate pleural effusion Severe (>1 of the following) Severe retractions, grunting, nasal flaring, HFNC Mechanical ventilator support New/increased CPAP/BIPAP support · Altered mental statu Hemodynamic instability Large pleural effusion Effusion requiring emergent drainage Mild - Consider CXR if diagnosis uncertain RPP, rapid RSV/influenza, SARS-CoV2 PCR Moderate and Severe CXR +/- US or CT if large effusion CBC, BMP, CRP/procalcitonin Consider RPP Consider MRSA nasal PCR · Consider Respiratory culture if can Antibiotics Antibiotics Amoxicillin: 30 mg/kg/dose PO q8h or 45mg/kg/dose PO q12h (max 1000 mg/dose; may consider max 2000 mg/dose n q12nn Amoxicillin/clavulanate: <40 kg: 30 mg/kg/dose PO q8h or 45 mg/kg/dose PO q12h using ES-600 suspension; ≥40 kg: 875 q12h using ES-600 suspension; 240 kg: 875 mg PO BID or 2 g XR tab PO BID Azithromycin: 10 mg/kg/dose (max 500 mg/dose) PO dq.1, then 5 mg/kg/dose PO q24h (max 250mg/dose) days 2-5 Cefpodoxime: 3 mo to <12 years: 5 mg/kg/dose PO q12h (max 200 mg/dose); >12 years: 200 mg PO q12h Doxycycline: 2.2 mg/kg/dose PO q12h (max 100 mg/dose)

(max 100 mg/dose)

Discharge Instructions If treating, antibiotics for 5 days
Follow up with PCP within 2-3 days

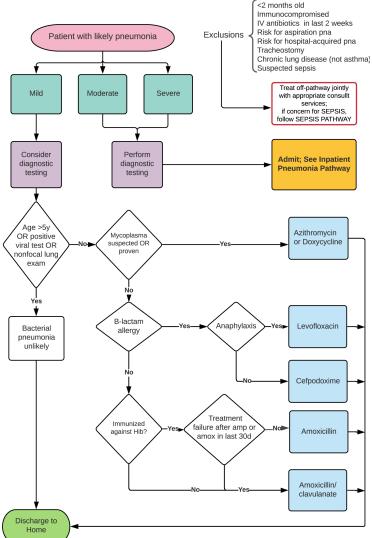
mg/dose)

(max 100 mg/kg/dose) Levofloxacin: 6 months to <5 years: 10 mg/kg/dose PO q12h (max 375 mg/dose); ≥5 years: 10 mg/kg/dose PO q24h (max 750

### Pediatric Community-Acquired Pneumonia (CAP) Pathway

**Mount** 

This pathway serves as a guide and DOES NOT replace clinical judgment



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### **Pediatric CAP Pathway**

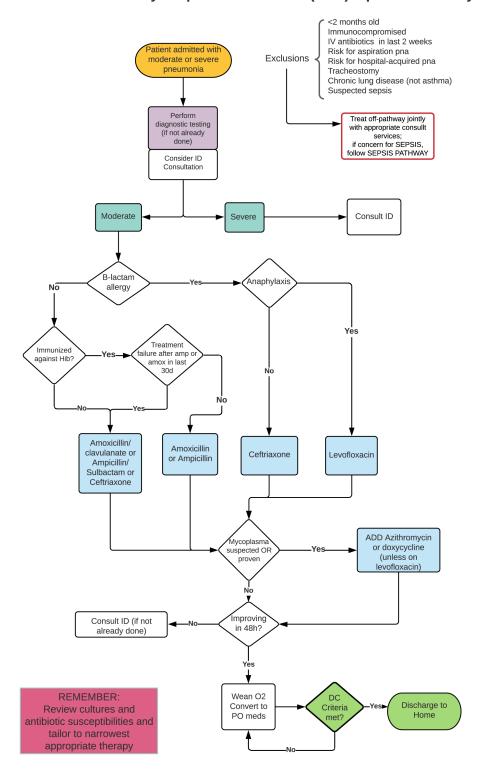
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### Pediatric Community-Acquired Pneumonia (CAP) Inpatient Pathway



#### Clinical severity

Moderate (≥1 of the following)

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- Age <3 months
- Dyspnea or retractions
- O2 saturation <90% RA
- Not tolerating oralsFailure of appropriate
- antibiotic therapy for ≥48 hours
- Concern for poor follow-upModerate pleural effusion

Severe (≥1 of the following)

- Severe retractions, grunting, nasal flaring, or apnea
- HFNC
- Mechanical ventilator support
- New/increased CPAP/BIPAP support
- Altered mental status
- Hemodynamic instability
- Large effusion
- Effusion requiring emergent drainage

### Testing

CXR +/- US or CT if large effusion

CBC, BMP, CRP/procalcitonin Consider RPP

Consider MRSA nasal PCR Consider Respiratory culture Consider blood culture

#### Antibiotics:

Amoxicillin: 30 mg/kg/dose PO q8h or 45mg/kg/dose PO q12h (max 1000 mg/dose; may consider max 2000 mg/dose if q12h) Ampicillin: 50-100 mg/kg/dose IV g6h (max 2000mg/dose) Amoxicillin/clavulanate: <40 kg: 30 mg/kg/dose PO q8h or 45 mg/kg/dose PO q12h using ES-600 suspension; ≥40 kg: 875 mg PO BID or 2 g XR tab PO BID Azithromycin: 10 mg/kg/dose (max 500 mg/dose) PO/IV day 1, then 5 mg/kg/dose q24h (max 250mg/dose) PO/IV days 2-5 Cefpodoxime: 3 mo to <12 y: 5 mg/kg/dose PO q12h (max 200 mg/dose); ≥12 y: 200 mg PO q12h Ceftriaxone:75 mg/kg/dose IV q24h (max 2000 g/dose) Doxycycline: 2.2 mg/kg/dose PO/IV q12h (max 100 mg/dose) \*Levofloxacin: 6 months to <5 y: 10 mg/kg/dose PO/IV q12h (ma 375 mg/dose); ≥5 y: 10 mg/kg/dose PO/IV g24h (max 750 mg/dose) \*Vancomycin: 15mg/kg IV q8h

#### \*Requires ID approval

Discharge Criteria
No oxygen need
No respiratory distress
PO meds

Discharge Instructions Moderate: Antibiotics for 7d Severe: Antibiotics for 10d Follow up with PCP within 2-3 days