### Community Acquired Pneumonia Pathway

**Antimicrobial Table and Immunization Definitions**

<table>
<thead>
<tr>
<th>Severity</th>
<th>First Line Therapy</th>
<th>Allergy to First Line Agent</th>
<th>Duration</th>
</tr>
</thead>
</table>
| **Mild Pneumonia (Outpatient)** | Amoxicillin 90mg/kg/day PO, divided q8-12 hrs (Max dose 4 g/day) | Levofoxacin ≥ 6 months to < 5 years: 10mg/kg/dose PO q12 hrs (Max dose 500 mg/dose)  
≥ 5 years: 10mg/kg/dose PO q24 hrs (Max dose 750 mg/dose) | 5 days |
| **Moderate Pneumonia (Inpatient/ICU)** | Ampicillin 75mg/kg/dose IV q6 hrs (Max dose 2 g/dose)  
OR  
If NOT fully immunized (table below), consider Ceftriaxone monotherapy 50-75 mg/kg/dose IV q24 hrs (Max 2 g/dose) | Levofoxacin ≥ 6 months to < 5 years: 10mg/kg/dose PO q12 hrs (Max dose 500 mg/dose)  
≥ 5 years: 10mg/kg/dose PO q24 hrs (Max dose 750 mg/dose) | 5-7 days |
| **Severe Pneumonia (ICU)**      | Ceftriaxone 75mg/kg/dose IV q24 hrs (Max dose 2 g/dose)  
AND  
Vancomycin  
≤ 50kg: 15mg/kg/dose IV q6 hrs (MAX dose 750 mg/dose)  
> 50 kg and/or > 18 years: 15mg/kg/dose q8 hrs (Max 1,000 mg/dose)  
Vancomycin  
≤ 50kg: 15mg/kg/dose IV q6 hrs (MAX dose 750 mg/dose)  
> 50 kg and/or > 18 years: 15mg/kg/dose q8 hrs (Max 1,000 mg/dose) | Levofoxacin ≥ 6 months to < 5 years: 10mg/kg/dose PO q12 hrs (Max dose 500 mg/dose)  
≥ 5 years: 10mg/kg/dose PO q24 hrs (Max dose 750 mg/dose)  
AND  
Vancomycin  
≤ 50kg: 15mg/kg/dose IV q6 hrs (MAX dose 750 mg/dose)  
> 50 kg and/or > 18 years: 15mg/kg/dose q8 hrs (Max 1,000 mg/dose) | 7-10 days |
| **Atypical Pneumonia**          | Azithromycin 10mg/kg/dose IV/PO on days 1-2, single dose (Max 500 mg/day)  
Followed by: 5mg/kg/dose q24 hrs (Max 250 mg/day)  
*Administer in addition to drugs above for typical CAP, Azithromycin often does not treat S. pneumoniae and does not treat S. aureus* | Levofloxacin ≥ 6 months to < 5 years: 10mg/kg/dose PO q12 hrs (Max dose 500 mg/dose)  
≥ 5 years: 10mg/kg/dose PO q24 hrs (Max dose 750 mg/dose)  
*Levofoxacin has activity against S. pneumoniae as well as atypicals so no additional agents targeting atypicals are needed when levofloxacin is otherwise indicated* | *Mycoplasma  
Azithromycin: 5 days  
Levofoxacin: 7 days  
Legionella pneumophila:  
Azithromycin: 5-10 days  
Levofoxacin: 14-21 days* |
| **Viral Pneumonia with POSITIVE influenza test** | Oseltamivir  
≤ 15 kg: 30mg Twice Daily  
15-23 kg: 45mg Twice Daily  
23-40 kg: 60mg Twice Daily  
> 40 kg: 75mg Twice Daily | Levofloxacin ≥ 6 months to < 5 years: 10mg/kg/dose PO q12 hrs (Max dose 500 mg/dose)  
≥ 5 years: 10mg/kg/dose PO q24 hrs (Max dose 750 mg/dose)  | |
| **COVID – 19 Pneumonia**       | Refer to COVID-19 management guidelines | | |

**Disclaimer:** Pathways are intended as a guide for practitioners and do not indicate an exclusive course of treatment nor serve as a standard of medical care. These pathways should be adapted by medical providers, when indicated, based on their professional judgement, and taking into account individual patient and family circumstances.

ChildrensNebraska.org/clinical-pathways

Updated December 2022
### Fully Immunized Pneumococcal Definition

<table>
<thead>
<tr>
<th>Age</th>
<th>Doses Received</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt; 4 months</td>
<td>1 dose</td>
</tr>
<tr>
<td>&lt; 6 months</td>
<td>2 doses</td>
</tr>
<tr>
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<td>3 doses</td>
</tr>
<tr>
<td>≥ 12 months</td>
<td>3-4 doses, one of which was given after 12 months of age</td>
</tr>
<tr>
<td>≥ 24 months</td>
<td>1 dose of vaccine given at or after 24 months of age</td>
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### Fully Immunized Hib Definition

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