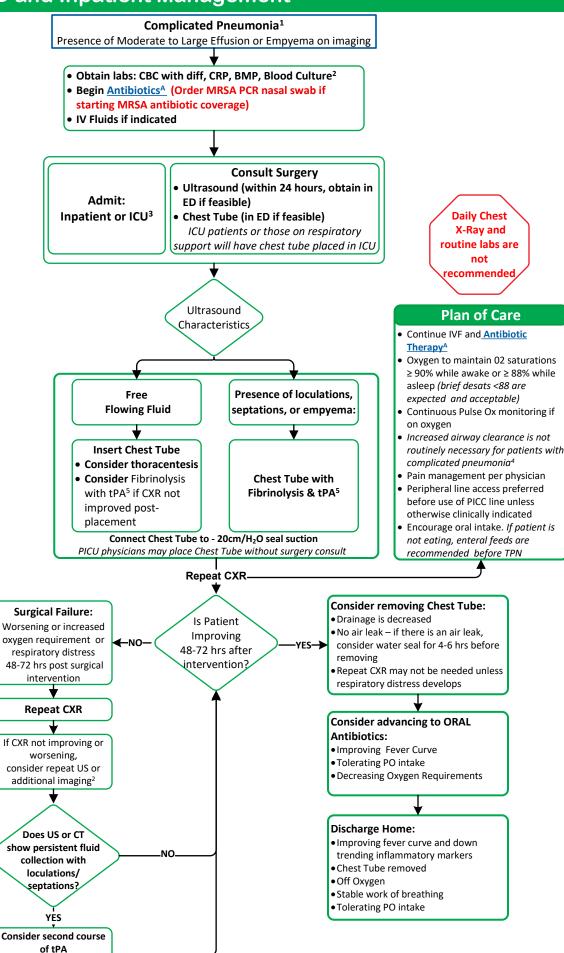
vs Decortication

procedure

November 2025





¹Definition

- •≥ 2 Months -18 Years of Age
- Signs and symptoms of community acquired pneumonia (viral and bacterial)

Moderate effusion

• 1-2 cm rim of fluid or > ¼ but less than ½ hemithorax opacified on Chest X-Ray (CXR), upright preferred

Large effusion

> ½ hemithorax opacified on CXR, upright preferred

Exclusion Criteria

- Immunocompromised
- Cystic Fibrosis
- Sickle Cell
- Infants < 2 months of age
- Nosocomially Acquired Pneumonia (>48 hrs)
- Medically Complex Patients
- Suspected Aspiration Pneumonia

²Diagnostic Testing

Consider:

MRSA PCR nasal swab: may be used to aid in de-escalation from anti-MRSA agents

- Respiratory Viral Panel (RVP): Identification of virus does not exclude other infectious
- Sputum Cultures: If patient is able to produce sputum, consider sputum culture
- Chest CT scan: Indicated only in patients with Large body habitus
- o US findings discrepant with clinical findings Presence or location of lung abscess may
- impact surgical decision making

³Consider PICU Admission

- FiO2>50% on HFNC
- · HFNC exceeding floor flow limit
- PCO2 >55 mmHg
- Fluid Refractory Shock

⁴Bronchodilator Use

- The use of albuterol and other bronchodilators is not routinely indicated.
- Consider in cases of acute wheezing or significant history of asthma.

5Fibrinolysis With tPA

tPA: 4 mg every day X 3 doses through chest

- tPA volume administered should be based on patient/effusion size
- First dose is at time of Chest Tube insertion, then daily
- Dwell time of tPA is 1 hour. Clamp for 1 hour after tPA.

Consults

Consider Consults for:

- Nutrition: If unable to tolerate oral feeding
- Pulmonology: If invasive intervention and for follow-up after discharge
- Infectious Disease: Guidance on length of therapy and transition to oral antibiotics

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Complicated Pneumonia Pathway Medication Chart^A

| Severity | Drug | Dosage | Max Dose | Duration |
|---|---|--|--------------------------------------|--|
| Mild-to-Moderate Illness ^B | Ceftriaxone | 75 mg/kg/dose IV every 24 hours | 2000 mg/dose | 7 days from drainage of effusion <u>OR</u> resolution of fever in undrained effusions |
| Mild-to-Moderate Illness with Cephalosporin Allergy ^C | Levofloxacin | 10 mg/kg/dose PO (preferred if able) or IV: <5 years old: every 12 hours ≥5 years old: every 24 hours | 750 mg/dose | |
| Severe Illness | Ceftriaxone PLUS MRSA coverage (Clindamycin OR Vancomycin) AND collect MRSA PCR swab | 75 mg/kg/dose IV every 24 hours | 2000 mg/dose | Dependent on source control and clinical response ^D |
| Severe Illness with Cephalosporin Allergy ^C | Levofloxacin PLUS MRSA coverage (Clindamycin OR Vancomycin) AND collect MRSA PCR swab | 10 mg/kg/dose PO (preferred if able) or IV: <5 years old: every 12 hours ≥5 years old: every 24 hours | 750 mg/dose | |
| MRSA Agents | Clindamycin | 13 mg/kg/dose PO (preferred if able) or IV every 8 hours | 900 mg/dose (IV) 600 mg/dose (PO) | |
| | Vancomycin with Pharmacokinetic Monitoring Consult | 15 mg/kg/dose IV every 6 hours | 1000 mg/dose | |

Vancomycin is preferred in septic shock, necrotizing pneumonia, or history of clindamycin resistance. Collect MRSA PCR nasal swab as soon as possible when initiating clindamycin or vancomycin. If MRSA PCR result is negative, discontinuation of the anti-MRSA agent is recommended.

| Atypical Coverage ^E | Azithromycin ^F | 10 mg/kg/dose PO (preferred if able) or IV every 24 hours | 500 mg/dose | 3 days |
|--------------------------------|---------------------------|--|-------------|--------|
|--------------------------------|---------------------------|--|-------------|--------|

Antibiotic recommendations are for <u>empiric therapy</u> only. For patients with culture and susceptibility data, antibiotics should be targeted as appropriate. Prompt IV to PO switch is encouraged for patients who can tolerate enteral administration.

Do not escalate antibiotic coverage due to persistent fever alone, as fever is expected for 48-72 hours even after starting appropriate antibiotic therapy. Consider further workup prior to alteration of antibiotics.

Patients should be treated for at least 7 days after resolution of fever.

^BMild-to-moderate illness is defined as a small or moderate-sized effusion, without abscess, empyema, necrotizing pneumonia, or the need for ICU admission.

^cMost patients with non-severe penicillin allergies will tolerate ceftriaxone. Avoid ceftriaxone in patients with allergies to cephalosporins.

Duration of therapy should be 7-10 days for most cases of parapneumonic effusion. Consider longer durations for lung abscess or necrotizing pneumonia. Typically, 14-28 days of therapy is sufficient. **Infectious Diseases consultation is recommended for guidance.**

Empiric atypical coverage is not routinely recommended. Consider adding if Mycoplasma positive on RVP.

FIf levofloxacin is used, further atypical coverage with azithromycin is not necessary.