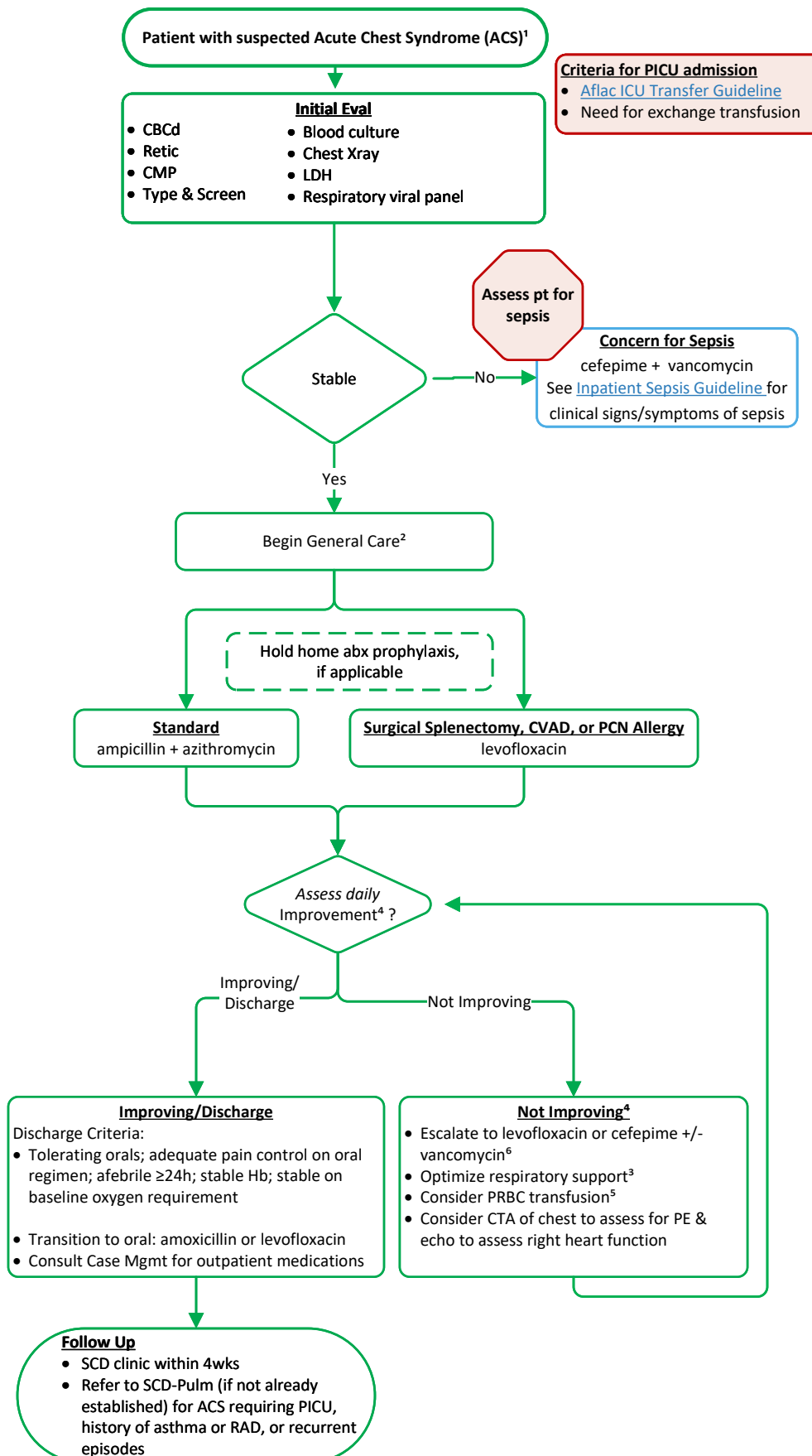


Work Up



¹ Definition

Acute illness characterized by new pulmonary infiltrate (non-atelactatic consolidation) on CXR plus fever ($\geq 38.3^{\circ}\text{C}$) and/or respiratory signs/symptoms (cough, shortness of breath, chest pain, crackles, hypoxia, etc)

² General Care

- Maintain euvoolemia with IV fluids at 3/4 to 1x maintenance rate. Decrease IVF rate as clinical status improves and oral intake increases.
- Consider PT consult for early ambulation
- Consider VTE prophylaxis, especially in patients $>18\text{yo}$, previous history of VTE, CVL, or other risk factors
- See [SCD Inpatient Pain Guideline](#)

Daily Labs

- CBCd
- Retic
- Ensure active Type & Screen

³ Respiratory Support

- Keep oxygen saturations $\geq 93\%$
- All patients should receive positive expiratory pressure (PEP) and incentive spirometer (IS)

Consider the following:

- Scheduled albuterol if history of asthma, reactive airway disease, or history of severe ACS
- 0.9% inhaled saline and/or chest physiotherapy (CPT) for patients with significant crackles/mucous
- Pulmonary consult based on severity, history of recurrence, or other lung disease
- Positive pressure ventilation (PPV) such as HFNC or BiPAP for increasing WOB, O₂ needs, or previous recommendations to start PPV at dx of ACS

⁴ Non Improvement Criteria

If:

- Increasing respiratory support
- Worsening imaging
- Hemodynamic instability or concern for sepsis

Then:

- Consider [Watcher Huddle](#)

⁵ Transfusion

- RBC Transfusion has benefits to treat ACS with hypoxia. Balance benefits vs individual risk assessment for each patient
- Assess Hb, retic, HbS%, alloimmunization history, level of respiratory support

If decision is made to transfuse and:

- Hb < 9 , can proceed with simple transfusion
- Hb ≥ 9 and/or rapid deterioration characterized by increasing oxygen needs, worsening respiratory distress, progressive pulmonary infiltrates, and/or decline in Hb despite simple transfusions, consider exchange transfusion with a target HbS% $<30\%$

⁶ Consider vancomycin if...

- Moderate to severe parapneumonic effusion
- Empyema
- Other concern for MRSA (obtain nasal MRSA PCR)

| Medication Table | | | | |
|------------------|-------|--|--|--|
| Medication | Route | Dose | Frequency | Notes |
| ampicillin | IV | 50 mg/kg <i>Max 2000 mg/dose</i> | Q6h | |
| cefepime | IV | 50 mg/kg <i>Max 2000 mg/dose</i> | Q8h | |
| vancomycin | IV | 20 mg/kg <i>Max 1000 mg/dose</i> | Q8h | Need to check levels if remaining on vancomycin after 48h |
| azithromycin | IV/PO | 10 mg/kg <i>Max 500 mg/dose</i> | Daily x 3 days | Total course 3 days |
| levofloxacin | IV/PO | 10 mg/kg <i>Max 750 mg/day</i> | Q12h for < 5 y.o. Q24h for ≥ 5 y.o. | Total course IV+PO = 7-10 days based on individual patient |
| amoxicillin | IV/PO | 90 mg/kg/day divided <i>Max 1000 mg/dose</i> | BID | Total course IV+PO = 7-10 days based on individual patient |

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