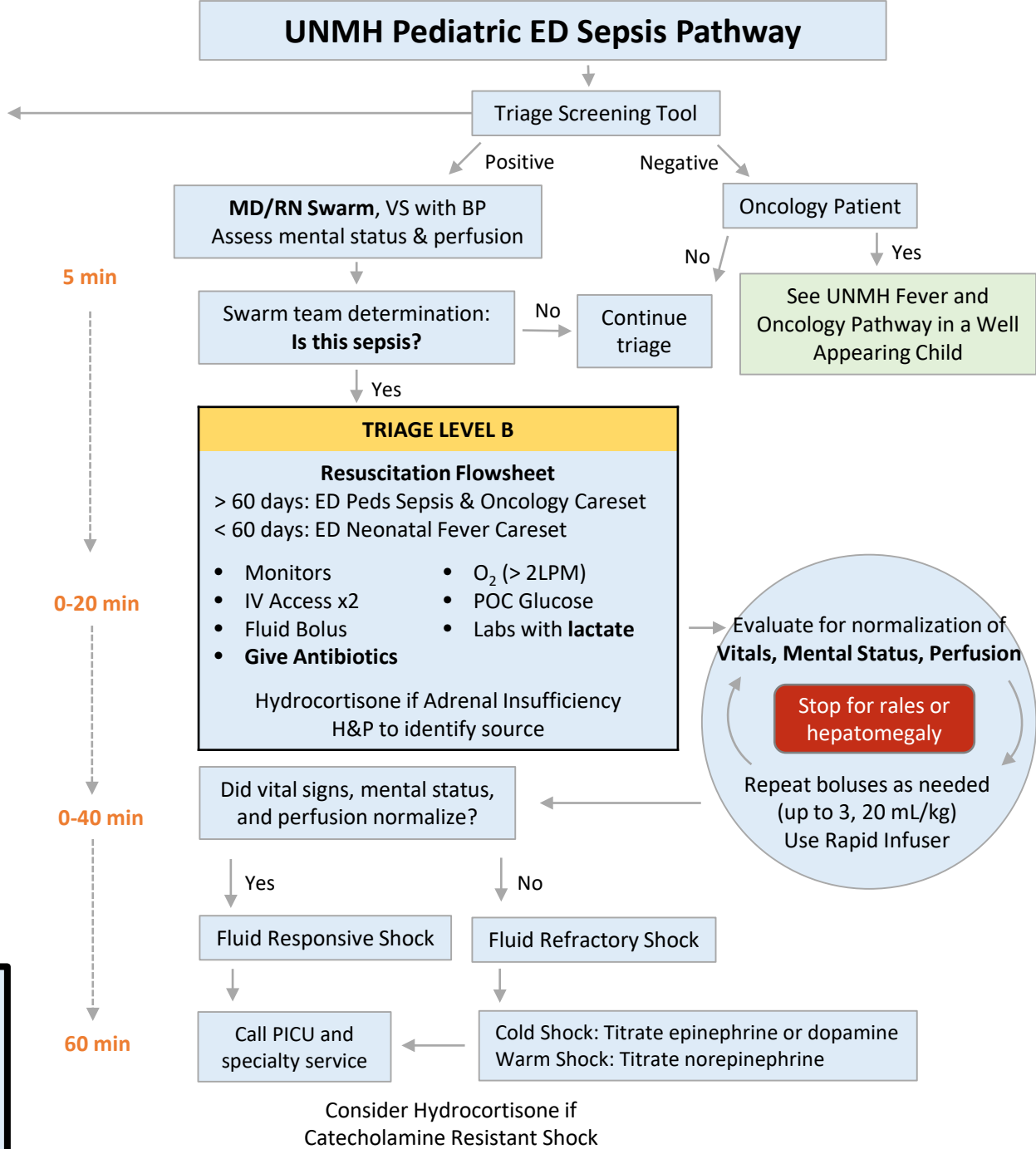


Positive Screen includes: 3 RED OR 2 RED and 1 BLUE																									
<b>Temp</b>	Fever > 38.5°C or < 36°C If < 3 months, fever is > 38 °C In cancer patient, fever is > 38°C																								
<b>Heart Rate</b>	<table border="1"> <thead> <tr> <th>Age</th> <th>Tachycardia</th> <th>or</th> <th>Bradycardia</th> </tr> </thead> <tbody> <tr> <td>&lt; 1 yr</td> <td>&gt; 180</td> <td></td> <td>&lt; 90</td> </tr> <tr> <td>1 -2 yrs</td> <td>&gt; 160</td> <td></td> <td>&lt; 80</td> </tr> <tr> <td>3 - 5 yrs</td> <td>&gt; 140</td> <td></td> <td>&lt; 65</td> </tr> <tr> <td>6 - 12 yrs</td> <td>&gt; 130</td> <td></td> <td>&lt; 55</td> </tr> <tr> <td>13-18 yrs</td> <td>&gt; 120</td> <td></td> <td>&lt; 50</td> </tr> </tbody> </table>	Age	Tachycardia	or	Bradycardia	< 1 yr	> 180		< 90	1 -2 yrs	> 160		< 80	3 - 5 yrs	> 140		< 65	6 - 12 yrs	> 130		< 55	13-18 yrs	> 120		< 50
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<b>High Risk Condition</b>	<ul style="list-style-type: none"> <li>• <b>Infant</b> &lt; 60 days</li> <li>• Indwelling <b>hardware</b> (central line, VP shunt, implant)</li> <li>• <b>Transplant</b> patient (bone marrow, solid organ)</li> <li>• <b>Immunocompromised</b> (cancer, asplenia, adrenal insufficiency, sickle cell, immunosuppressive therapy)</li> <li>• <b>Static encephalopathy</b> (cerebral palsy)</li> <li>• Red Flag <b>Rash</b> (petechiae, purpura, erythroderma)</li> <li>• Major <b>GI Patient</b> (TPN dependent, Hirschsprung's)</li> </ul>																								
<b>Altered Mental Status</b>	Anxiety, restless, agitated, irritable, inappropriately crying, drowsy, confused, lethargic, obtunded																								
<b>Impaired Perfusion</b>	<ul style="list-style-type: none"> <li>• Cool extremities, capillary refill &gt; 3 seconds, diminished pulses, mottled</li> <li>• Warm extremities, flushed, bounding pulses, flash capillary refill</li> </ul>																								

**Guideline GOALS:**  
Restore normal perfusion

**INTERVENTIONS:**  
Initiate Fluid Resuscitation within 30 minutes  
Antibiotics within 60 minutes



## ANTIBIOTIC RECOMMENDATIONS

### “ED Pediatric Sepsis and Oncology (>60 days) Careset”

<b>Healthy Patient, No Central Line (including Skin/Soft Tissue, Bone, Joint Infection)</b>	Ceftriaxone Vancomycin
<b>Immunocompromised Oncology Patient Immunosuppressive meds Recent hospitalization (&gt; 4 days within 2 months) Chronic medical condition Central line</b>	Cefepime Vancomycin
<b>Patient with Suspected Intraabdominal Source (including GI and TPN dependent patients)</b>	Piperacillin/ Tazobactam Vancomycin

### “ED Peds Neonatal Fever (0-60 days) Careset”

**≤28 days:** Ampicillin + Gentamicin ± Acyclovir  
**>28 days:** Ceftriaxone OR [Ampicillin + Gentamicin]

#### Immunosuppressive Medications

Azathioprine/Mercaptopurine  
 Anakinra  
 Cyclophosphamide  
 Etanercept  
 Monoclonal antibodies (e.g. infliximab, vedolizumab, rituximab, adalimumab, etc.)  
 Mycophenolate mofetil  
 Oral or SQ methotrexate > 5 mg  
 Prednisone 2 mg/kg/day or >20 mg daily (> 2 weeks) Tacrolimus/Sirolimus

#### Penicillin/Cephalosporin Allergy Alternatives

True Penicillin Allergy (non-anaphylaxis):  
 Replace with Cefepime  
  
True Cephalosporin Allergy:  
 Replace with Aztreonam  
  
If Anaphylaxis:  
 Replace with Aztreonam

### Fluid Responsive Shock

Shock resolves with less 60 ml/kg fluid resuscitation when appropriate

### Fluid Refractory Shock

Shock persists with greater than 60 ml/kg fluid resuscitation when appropriate

#### Warm shock

Flash capillary refill, bounding peripheral pulses, wide pulse pressure

#### Cold shock

Prolonged capillary refill of > 2 seconds, mottled cool extremities, diminished pulses

### Additional Medication Recommended Starting Doses

Hydrocortisone: 25 mg IV (0-3y), 50 mg IV (3-12 y), 100 mg IV (>12 y)

Dopamine 5-15 mcg/kg/min for Cold Shock  
 Epinephrine 0.05-0.3 mcg/kg/min for Cold Shock  
 Norepinephrine ≥ 0.05 mcg/kg/min for Warm Shock  
 (mixing instructions on code sheets)

#### Cefepime

<10kg: 50mg/kg q8h  
 10-11.9 kg 540 mg q8h  
 12-14.6 kg 660 mg q8h  
 14.7-17.7 kg 800 mg q8h  
 17.8-21.3 kg 960 mg q8h  
 21.4-25.6 kg 1160 mg q8h  
 25.7-31.1 kg 1400 mg q8h  
 31.2-37.7 kg 1700 mg q8h  
 37.8+ kg 2000 mg q8h

#### Zosyn (Based on Piperacillin Component)

10-12.2 kg 1100 mg  
 12.3-14.8 kg 1340 mg  
 14.9-18 kg 1620 mg  
 18.1-22 kg 1980 mg  
 22.1-26.6 kg 2400 mg  
 26.7-30 kg 3000 mg  
 >30 kg: 3375 mg LOAD, then 3375 mg extended 4 hour infusion q8h

#### Vancomycin (Careset Contains Only Load Dose/1<sup>st</sup>, Inpatient Team Orders Maintenance)

< 10 kg: 25 mg/kg \*1  
 10-12.2 kg 275 mg  
 12.3-14.8 kg 335 mg  
 14.9-17.7 kg 400 mg  
 17.8-22.2 kg 500 mg  
 22.3-27.1 kg 610 mg  
 27.2-33.3 kg 750 mg  
 33.4-40 kg 900 mg  
 40.1-44.4 kg 1000 mg  
 44.5-55.5 kg 1250 mg  
 55.6-66.5 kg 1500 mg  
 66.6-77.5 kg 1750 mg  
 77.6+ kg 2000 mg RTU  
 \*CHANGE TO 20 mg/kg loading dose if GFR < 30 or check creatinine if low GFR suspected

#### Ceftriaxone

10-12kg: 550 mg q24h  
 13-15kg: 700 mg q24h  
 16-18kg: 850 mg q24h  
 19-22kg: 1000 mg q24h  
 23-27kg: 1250 mg q24h  
 28-32kg: 1500 mg q24h  
 33-37kg: 1750 mg q24h  
 >37kg: 2000 mg q24h