**UNMH Fever and Oncology Pathway in a Well Appearing Child**

**Triage Screening Tool Positive**

**Immediate PED Bed Placement, Triage B**

**MD/RN Rapid Team Assessment**

**Physician**

**Order labs and Antibiotics:**
- Use careset “ED Peds Sepsis and Oncology (>60 days)”
- In that careset use “ED Peds Oncology Antibiotics” for antibiotic recommendations on next page
- Be sure to order a blood culture for each port

If URI symptoms order CXR and viral swab but beware bleeding if platelets < 20K

**Nursing**

**Access Central Venous Catheter** (two attempts then peripheral IV at 45 minutes if unsuccessful)

- Draw Labs (with lactate, blood culture from each port and label “green port,” “red port,” etc.)
- Verify antibiotic order, remind MD if needed
- If failed IV, ask for IM antibiotics

**Administer Antibiotics**

**Current Absolute Neutrophil Count**

**ANC < 500**

- Discuss with Hem/Onc Attending
- Admit to Hospital

**ANC > 500**

- Discuss with Hem/Onc Attending

**Discharge Criteria:**
- Live within 30 min of UNM
- Hem/Onc follow-up in 24 hours

**Positive Screen Includes**

<table>
<thead>
<tr>
<th>Age</th>
<th>Normal Heart Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt; 1 year</td>
<td>90 - 180</td>
</tr>
<tr>
<td>1 – 2 yrs</td>
<td>80 - 160</td>
</tr>
<tr>
<td>2 - 5 yrs</td>
<td>65 - 140</td>
</tr>
<tr>
<td>6 - 12 yrs</td>
<td>55 - 130</td>
</tr>
<tr>
<td>13 - 18 yrs</td>
<td>50 - 120</td>
</tr>
</tbody>
</table>

**UnMH Pediatric ED Sepsis Pathway if Abnormal Heart Rate or Ill Appearing**

- Currently on or recent chemotherapy
- History of bone marrow transplant
- Last known ANC < 500
- Central Line

**AND MUST BE Well Appearing**

- Normal mental status
- Normal capillary refill (1-2 seconds)
- Normal pulses without mottling
- Normal heart rate (above)

**Triage Level B**

If ill-appearing or abnormal heart rate see UNMH Pediatric ED Sepsis Pathway

**Practice Change:** Antibiotics will need to be administered before the ANC results.

**Guideline Goals:**

- Appropriate antibiotics given within 60 minutes
- Optimizing access of central venous catheter
- Appropriate blood cultures with correct labeling
- Discussion with Hem/Onc Attending
- Appropriate disposition
**Suspect Neutropenia if:**
- Oncology attending suspects neutropenia on pre-arrival call OR
- ANC < 500 within the last week

**Neutropenia Unlikely or Unsure**
- Ceftriaxone

**Suspected Neutropenia**
- Cefepime

**Anaphylactic penicillin allergy (Neutropenia unlikely and Suspected Neutropenia)**
- Aztreonam

**Septic Oncology Patient (+/- Neutropenia)**
- Cefepime and Vancomycin

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**If Ceftriaxone is given and ANC results < 500 then give appropriate dose of Cefepime**

**Recommended Labs**
- STAT CBC/Diff, CRP, UA/Culture
- Blood culture for EACH PORT
- If URI symptoms consider: CXR, viral swab but beware bleeding for platelets < 20K

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**Common Antibiotic Dosing:**

<table>
<thead>
<tr>
<th>Antibiotic</th>
<th>&lt;10kg: 50mg/kg q8h</th>
<th>10-12kg: 550 mg q8h</th>
<th>13-15kg: 700 mg q8h</th>
<th>16-18kg: 850 mg q8h</th>
<th>19-22kg: 1000 mg q8h</th>
<th>23-27kg: 1250 mg q8h</th>
<th>28-32kg: 1500 mg q8h</th>
<th>33-37kg: 1750 mg q8h</th>
<th>&gt;37kg: 2000 mg q8h</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cefepime</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aztreonam</td>
<td>&lt;10kg: 50 mg/kg q24h</td>
<td>10-12kg: 550 mg q24h</td>
<td>13-15kg: 700 mg q24h</td>
<td>16-18kg: 850 mg q24h</td>
<td>19-22kg: 1000 mg q24h</td>
<td>23-27kg: 1250 mg q24h</td>
<td>28-32kg: 1500 mg q24h</td>
<td>33-37kg: 1750 mg q24h</td>
<td>&gt;37kg: 2000 mg q24h</td>
</tr>
<tr>
<td>Vancomycin</td>
<td>&lt;13kg: 15mg/kg q6h</td>
<td>13-14kg: 200 mg q6h</td>
<td>15-18kg: 250 mg q6h</td>
<td>19-21kg: 300 mg q6h</td>
<td>22-24kg: 350 mg q6h</td>
<td>25-27kg: 400 mg q6h</td>
<td>28-30kg: 450 mg q6h</td>
<td>31-35kg: 500 mg q6h</td>
<td>36-37kg: 550 mg q6h</td>
</tr>
</tbody>
</table>

**Other Antibiotic Dosing**

<table>
<thead>
<tr>
<th>Antibiotic</th>
<th>First Dose IV</th>
<th>Maximum</th>
</tr>
</thead>
<tbody>
<tr>
<td>Meropenem</td>
<td>20 mg/kg</td>
<td>1 gram</td>
</tr>
<tr>
<td>Clindamycin</td>
<td>10 mg/kg</td>
<td>600 mg</td>
</tr>
<tr>
<td>Ertapenem</td>
<td>15 mg/kg</td>
<td>1 gram</td>
</tr>
</tbody>
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