

III Appearing Oncology Patient/Oncologic Fever (Emergency Department)

Inclusion Criteria:

1. Oncology patient receiving chemotherapy/radiation within the last 6 months

- 2. Any of the following:
- III Appearing
- Positive Sepsis Screen
- High Risk Vital Signs
- Fever (location does not matter)
 - ≥ 38.5°C once
 - ≥ 38°C x 2 (30 mins apart) within a 24h period

TIME 0 Min

Nurse Initiated

- Assign ESI Level 1 or 2 (ER only)
- Obtain vital signs including O2 saturation
- **Avoid NSAIDS & rectal temperatures**
- Order and draw labs CBC with differential, blood culture, CMP
 - Central access (PICC/Port/CVL) obtain blood culture from all lumens
 - If unable to access PICC/Port/CVL do not delay care. Place PIV and obtain blood culture from PIV

GOAL ≤ 30 minutes from patient arrival

30 Min

Provider Assessment and Treatment

- Obtain History and Physical Exam including oncologic treatment stage
- Order antibiotics, use appropriate EPIC order set
- Consider further workup as indicated†
- Alert Heme/Onc attending

Follow Sepsis/Septic Signs of Sepsis with Organ Shock Guideline Dysfunction or Septic Shock? NO

Administer antibiotics within 60 min (ASAP) → Do NOT wait until labs have returned Definition of absolute neutrophil count (ANC) = WBC x (Neutrophils% + Bands%)

Empiric antibiotics choices based on labs & clinical Indications

- 1. CBC not yet available or ANC < 500 or ANC expected to fall (based on discussion with H/O)
 - Cefepime 50mg/kg/dose IV Q8H (max 2g/dose)
- 2. ANC > 500 AND well-appearing 60 Min
 - Ceftriaxone 50 mg/kg/dose IV q24H (max 2g/dose)
 - 3. Suspected intra-abdominal infection, typhlitis, perirectal pathology
 - Piperacillin-tazobactam 75mg/kg/dose IV Q6hr (max 3g)

- Cefepime 50mg/kg/dose IV Q8H (max 2g/dose) AND
- Metronidazole 10 mg/kg/dose IV Q8H (max 500 mg/dose)
- 4. Severe beta-lactam allergy
 - Consult ID

Additional considerations for antibiotics ‡

Risk factors of serious infection for children with cancer

- Chemotherapy-induced neutropenia
- Central Venous Catheters
- Functional neutropenia (secondary to hematologic malignancies)
- Breakdown of skin and mucosal barriers
- Altered humoral, cellular immunity (if neutropenia is anticipated to last more than 7days)

Causes of Neutropenic Fever Infectious:

Bacteremia

- GI tract (oral, intestinal mucositis)
- Upper and lower respiratory tract
- Urinary tract Soft tissue

Noninfectious: Drug fever

- Cancer-related fever

- Transfusion reaction
- Dysautonomia

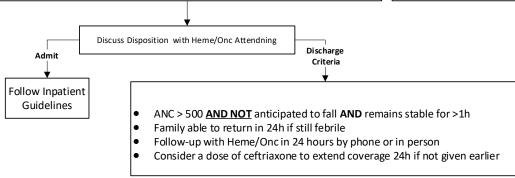
†Further Workup (as indicated)

- CRP, ESR, Procalcitonin, Lactic Acid, Respiratory viral testing (as warranted)
- SOB, cough, hypoxia, tachypnea →
- Urinary symptoms, history of UTI/ urinary tract abnormalities → UA/Ucx (clean-catch, midstream; NO CATH)
- Loose bowel movements without a known source \rightarrow C. diff (If >2 years
- If acute abdomen, AMS, or meningeal signs, discuss with H/O attending for advanced imaging

‡Additional Antibiotics **Consider Vancomycin**

- Suspected catheter-related infection
- Suspected bacterial meningitis
- Concern for sepsis
- Known colonization with MRSA or skin/soft tissue infection

AAH Neonatal and Pediatric Vancomycin Dosing and Monitoring Guidelines



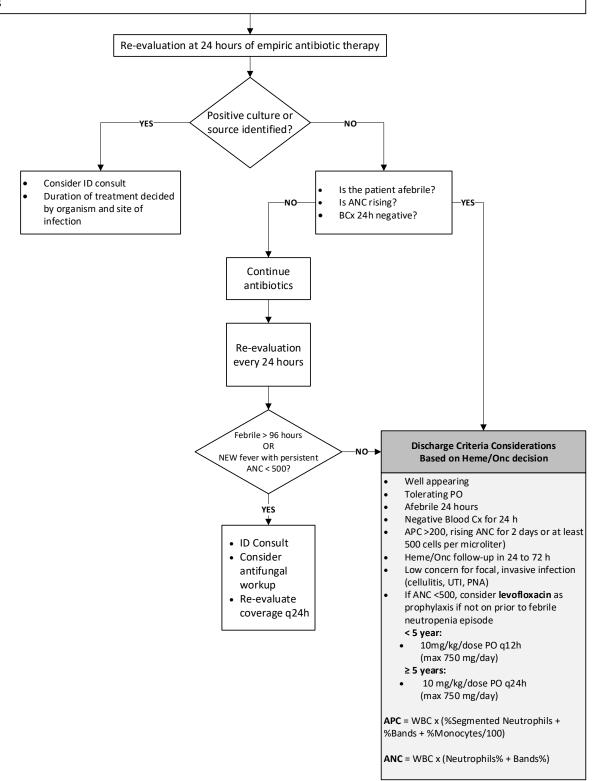
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Ill Appearing Oncology Patient/Oncologic Fever (Inpatient)

Inpatient Floor Management

- Continue antibiotic therapy
- Labs: CBC with diff q24h, Blood culture q24h from all central line lumens while febrile and type & screen q72h
- Reassess every shift
 - Review of systems/physical assessment
 - I/Os
 - Weights



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