Neutropenic Fever

Management of Neutropenic Fever or Fever and Human Stem Cell Transplant (HSCT) in Adults

Definitions:

Fever: Temp >38.0°C ax or oral (no rectal temps if neutropenic)
Neutropenia: ANC <500

**Adults**

Routine ED antibiotics within 60 min of arrival:

- No PCN allergy: meropenem
- PCN Allergy: mild: cefepime
- PCN Allergy: severe: aztreonam+vanco

Add vanco or linezolid per IDSA 2010 Guidelines Table 4 only if:
- Hemodynamic instability or other evidence of severe sepsis
- Radiographically documented pneumonia
- Positive blood cultures for a Gram-positive organism
- Clinically suspected catheter related infection (e.g. chills/rigors during infusion, exit site inflammation)
- Skin or soft tissue infection at any site

**Adult Antibiotic Dosage**

Cefepime 2 grams IV q8h
Vancomycin 1 gram IV every 12 hours
Imipenem 500 mgs IV every 6 hours
Aztreonam 2 grams IV every 8 hours
Linezolid 600 mg IV q12h

Doses need to be adjusted in patients with moderate to severe renal failure

Labs: CBC, Chem-10, blood culture x2, urine culture (non-cath if neutropenic), CXR
Fluids: NS bolus 20ml/kg, repeat x2 if necessary. (1-4 liters in adults)
Monitoring: Continuous BP, HR, Pulse ox