

Neutropenic Fever

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

Definitions:

Fever: Temp >38.0C 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