

Risk Factors for Specific Pathogens

MDR Pathogens (i.e. <i>Pseudomonas</i>)	MRSA	Fungal
Recent broad spectrum antibiotics within 90 days	MRSA nares positive/colonized	Recent broad spectrum antibiotics within 90 days
Recent hospitalization >2 days within 90 days	Chronic dialysis within 30 days	Hematologic malignancy or Chemotherapy
Residence in Long-Term Care Facility	Recent invasive surgical procedure	Parenteral nutrition
Family member with MDR infection	Injectable drug users	Renal replacement therapy in ICU
Current hospitalization of ≥ 5 days	Presence of a purulent skin infection	Prolonged neutropenia (>7 days)
Mechanical ventilation ≥ 5 days	Implantable prosthetic devices	Recent abdominal surgery or suspicion of perforated bowel
Immunosuppressive disease or therapy	Immunosuppressive disease or therapy	Immunosuppressive disease or therapy
Structural lung disease (i.e. COPD)	Presence of a central venous catheter	Implantable prosthetic devices
		Presence of a central venous catheter

Empiric Drugs of Choice

MDR Pathogens (i.e. <i>Pseudomonas</i>)	MRSA	Fungal
Cefepime or Piperacillin/ Tazobactam	Vancomycin	Micafungin



SEPSIS ANTIBIOTIC GUIDE

QUICK REFERENCE GUIDE



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Empiric Sepsis Antibiotic Chart

Source of Infection	Empiric Antimicrobial Therapy	Alternative Therapy (Severe Penicillin Allergy**)	Comments
Unknown Source (includes IV-associated bacteremia)	Vancomycin (see comments) + (Cefepime or Piperacillin/ Tazobactam) +/- Tobramycin	Vancomycin (see comments) + Aztreonam +/- Tobramycin (if high suspicion for <i>Pseudomonas</i>)	Daptomycin 6 mg/kg is an option for severe vancomycin allergy (not Redman syndrome).
Community-acquired Pneumonia	Ceftriaxone + Azithromycin or Levofloxacin	Vancomycin + Levofloxacin	Consider the addition of empiric Oseltamivir during influenza season. Aztreonam has lower susceptibilities to <i>Pseudomonas</i> than beta-lactams.
Community-acquired Pneumonia (with Pseudomonal Risk Factors)	Cefepime + (Azithromycin or Levofloxacin)	Aztreonam + Levofloxacin	
Healthcare-acquired Pneumonia	(Cefepime or Piperacillin/ Tazobactam) + (Vancomycin or Linezolid) +/- (Tobramycin or Levofloxacin)	Aztreonam + (Vancomycin or Linezolid) + (Tobramycin or Levofloxacin)	
Intra-abdominal Infection (Community-acquired)	Ceftriaxone + Metronidazole or Piperacillin/Tazobactam	Option 1: Aztreonam + Metronidazole + (Vancomycin or Linezolid) Option 2: Levofloxacin + Metronidazole	Consider adding empiric Micafungin if concern for bowel perforation. If PCN allergy is not anaphylaxis, consider Ertapenem (Community) and Meropenem (Hospital) for monotherapy.
Intra-abdominal Infection (Hospital-acquired)	Cefepime + Metronidazole or Piperacillin/ Tazobactam	Aztreonam + Metronidazole + (Vancomycin or Linezolid)	
Urinary Tract Infection	Ceftriaxone (or Cefepime if catheter-associated) +/- Tobramycin	Levofloxacin + (Aztreonam or Tobramycin)	For documented or suspected ESBL producing-organisms use Ertapenem.
Febrile Neutropenia	(Cefepime or Piperacillin/ Tazobactam) + Tobramycin +/- Vancomycin (see comments)	Aztreonam + Tobramycin + Vancomycin	For patients without severe Beta-lactam allergies, add empiric vancomycin if patient is MRSA colonized or has MRSA risk factor.
Necrotizing/Severe Skin and Soft Tissue Infection (patient requires an immediate surgery consult)	Vancomycin + Piperacillin/ Tazobactam +/- Clindamycin (see comments)	Vancomycin + Aztreonam +/- Clindamycin (see comments)	Add Clindamycin if <i>Streptococcus pyogenes</i> or toxic shock syndrome suspected. In addition for severe Beta-lactam allergic patient, add clindamycin if anaerobic coverage required.
Necrotizing/Severe Skin and Soft Tissue Infection (Waterborne Infection)	(Ceftriaxone or Ceftazidime) + Doxycycline	Vancomycin + Aztreonam + Doxycycline	

** Severe penicillin allergy: anaphylaxis, bronchospasm, angioedema or hives - Allergy assessment is needed to assure optimal therapy