



	Gram +	Gram -	anaerobes	atypical
PCN <small>IV: Zosyn, Unasyn PO: Amoxicillin, Augmentin</small>	✓	✓	✓	
Cephalosporins <small>1: Cefazolin (iv), Cephalexin (po) 2: Cefuroxime (iv), Cefepim (po) 3: Ceftriaxone (iv), Cefixime (po) 4: Cefepime 5: Ceftazidime (iv, MRSA) ✗</small>	✓	✓		
FQ <small>Carbifloxacin Levofloxacin Moxifloxacin</small>	✓	✓		✓
Macrolides <small>Azithromycin Clarithromycin</small>	✓			✓
Metronidazole			✓	
Doxycycline	✓			✓
Clindamycin	✓		✓	
Carbapenems (iv) <small>Imipenem Meropenem Doripenem</small>		✓	✓	
Vancomycin	✓ + MRSA			

Illness	Treatment Length
UTI	3-5 days
Diverticulitis	7 days
Celulitis	10 days
Bacteremia	14 days
Prostatitis	3-4 wks
Endocarditis	4 wks
OM	6 wks

Anti-MRSA

Anti-pseudomonal

Anti-ESBL

Anti-Anaerobe

IV	PO
<ul style="list-style-type: none"> Vancomycin Daptomycin Linezolid 	<ul style="list-style-type: none"> Linezolid Doxycycline Bactrim Clinda
<ul style="list-style-type: none"> Zosyn (Unasyn) Cefepime Levofloxacin Ciprofloxacin 	<ul style="list-style-type: none"> Levofloxacin Ciprofloxacin
<ul style="list-style-type: none"> Meropenem Imipenem 	<ul style="list-style-type: none"> Fosfomycin <small>Not usually used</small>
<ul style="list-style-type: none"> Zosyn Unasyn Metronidazole Clindamycin 	<ul style="list-style-type: none"> Augmentin Amoxicillin Metronidazole Clindamycin

Pneumonia (gram+ + atypicals)

1. Ceftriaxone + Azithromycin
2. QTc prolong: Ceftriaxone + Doxy
3. PCN anaphylaxis: Levofloxacin
4. PCN anaphylaxis & tendon rupture: Aztreonam + Azithro

GI Coverage (gram -)

1. Ceftriaxone
2. PCN allergy: Levofloxacin
3. " " + tendon: Aztreonam
4. ESBL: Meropenem
5. pseudomonas: cefepime or Levo

GI Coverage (gram- + anaerobes)

1. Unasyn or Zosyn
2. PCN allergy: Ceftriaxone + Metronidazole
3. PCN anaphylaxis: Levofloxacin + Metronidazole
4. " " + tendon rupture: Aztreonam + Metronidazole

Skin (gram+)

1. Unasyn → Augmentin
2. Cefazolin → Cephalexin
3. Ceftriaxone → Cefdinir, Ceftin

Specific Abx	Cautions
Vancomycin	<p>Nephrotoxic:</p> <ul style="list-style-type: none"> * happens at drug accumulation in proximal tubule cells ↳ 1.5 Cr \equiv 0.5 mg/dL, 1.5 Cr 50% from baseline, 4 Cr 1.5 Cr from baseline * monitor troughs * caution combining w/ PIP-taz <p>Red Man's Syndrome:</p> <ul style="list-style-type: none"> * "Vancomycin induced infusion rxn assoc w/ rash" * during / immediately after * how to avoid ↳ slower infusion time ↳ antihistamines
Fluoroquinolone	<p>C. Diff Tendon Rupture / Tendinitis QTc prolongation</p>
Doxycycline	<p>Photosensitivity: warn pts (they may think they're allergic when not)</p> <p>tooth discoloration: not given to <8yrs</p>
Bactrim	<p>SJS / TEN: Discontinue w/ any sign of rash</p> <p>hyperkalemia: mc in HIV pts</p>
Clindamycin	<p>C. Diff GI upset: diarrhea, N/V, flatulence...</p>
Aminoglycosides	<p>ototoxicity:</p> <ul style="list-style-type: none"> * cochlear / vestibular toxicity if prolonged periods \rightarrow hearing loss, disorientation * prevention ↳ avoid dosing ↳ monitor drug concentrations <p>nephrotoxicity:</p> <ul style="list-style-type: none"> * can cause acute tubular necrosis * prevention ↳ check labs: BUN, creatinine (especially in HIV) ↳ avoid hypotension / hypovolemia before giving ↳ avoid dialysis 7-10 days ↳ avoid other nephrotoxic drugs
Linezolid	<p>serotonin syndrome:</p> <ul style="list-style-type: none"> * avoid with SSRIs, SNRIs, MAOIs, tricyclics * avoid tyramine foods \rightarrow HTN crisis, serotonin syndrome <p>thrombocytopenia</p>
Macrolides	QTc prolongation
Carbapenems	seizures: mc imipenem
Pitavastatin	<p>hepatotoxic</p> <p>Discoloration of body fluids: orange</p>
Nitrofurantoin	<p>pulmonary / nephrotoxic</p> <p>brown urine</p>
Daptomycin	myopathies
Metronidazole	<p>Disulfiram Rxn</p> <p>peripheral neuropathy</p>
Isoniazid	peripheral neuropathy: supplement w/ pyridoxine
Ethambutol	<p>optic neuritis:</p> <ul style="list-style-type: none"> * A visual acuity, red-green color blindness * usually reversible

Specific Abx	Caution
pyrazinamide	Hyperuricemia
β -Lactams	<p>Rash</p> <p>Diarrhea</p> <p>Anaphylaxis</p>