

Drug	Activity	Indication	Class	Action	Contraindication
<b>Amoxicillin</b>	Broad spectrum Gram-POSITIVE/NEGATIVE	Susceptible infections; <i>H. pylori</i> -associated peptic ulcers; severe/resistant HAP	Broad-spectrum penicillin	Destroys bacterial cell wall	History of allergy; <i>C. diff</i> infection; penicillin-associated liver injury; severe renal impairment
<b>Azithromycin</b>	Broad spectrum Gram-POSITIVE/NEGATIVE	RTI; skin/soft tissue infection; severe pneumonia; <i>H. pylori</i> eradication	Synthetic macrolide	Inhibits bacterial protein synthesis	Macrolide hypersensitivity; severe hepatic impairment; severe renal impairment
<b>Benzylpenicillin</b>	Narrow spectrum Some Gram-POSITIVE cover and Gram-negative cocci	Tonsillitis; pneumonia; endocarditis; skin/soft tissue infection; meningitis; septicaemia; gas gangrene	Penicillin	Destroys bacterial cell wall	Renal impairment; <b>penicillin allergy</b>
<b>Cefalexin</b>	Broad spectrum Gram-NEGATIVE (some Gram-positive cover)	UTI; RTI; Very severe or complicated antibiotic-resistant organisms	Cephalosporin	Destroys bacterial cell wall	<i>C. diff</i> risk; <b>allergy; anaphylactic reaction</b> ; epilepsy; renal impairment
<b>Cefotaxime</b>	Broad spectrum Gram-NEGATIVE (some Gram-positive cover)	UTI; RTI; Very severe or complicated antibiotic-resistant organisms	Cephalosporin	Destroys bacterial cell wall	<i>C. diff</i> risk; <b>allergy; anaphylactic reaction</b> ; epilepsy; renal impairment
<b>Chloramphenicol</b>	Broad spectrum Gram-POSITIVE/NEGATIVE Aerobes/anaerobes	Bacterial conjunctivitis; otitis externa	-	Inhibits bacterial protein synthesis	<b>Hypersensitivity reaction; bone marrow disorders; third trimester pregnancy; breastfeeding; children &lt;2y/o</b> ; hepatic impairment
<b>Ciprofloxacin</b>	Broad spectrum Gram-NEGATIVE (particularly Pseudomonas)	UTI; severe gastroenteritis; LRTI	Quinolone	Inhibits bacterial DNA replication	Seizures; children; QT prolongation
<b>Clarithromycin</b>	Broad spectrum Gram-POSITIVE/NEGATIVE	RTI; skin/soft tissue infection; severe pneumonia; <i>H. pylori</i> eradication	Synthetic macrolide	Inhibits bacterial protein synthesis	Macrolide hypersensitivity; severe hepatic impairment; severe renal impairment
<b>Co-amoxiclav</b> (amoxicillin with clavulanic acid)	Broad spectrum Gram-POSITIVE/NEGATIVE	Susceptible infections; <i>H. pylori</i> -associated peptic ulcers; severe/resistant HAP	Broad-spectrum penicillin	Destroys bacterial cell wall	History of allergy; <i>C. diff</i> infection; penicillin-associated liver injury; severe renal impairment
<b>Doxycycline</b>	Broad spectrum Gram-POSITIVE/NEGATIVE	Acne vulgaris; LRTI; infective exacerbations of COPD; pneumonia; PID	Tetracycline	Inhibits bacterial protein synthesis	<b>Pregnancy; breastfeeding; children &lt;12y/o</b> ; renal impairment
<b>Erythromycin</b>	Broad spectrum Gram-POSITIVE (some Gram-negative cover)	RTI; skin/soft tissue infection; severe pneumonia; <i>H. pylori</i> eradication	Natural macrolide	Inhibits bacterial protein synthesis	Macrolide hypersensitivity; severe hepatic impairment; severe renal impairment
<b>Flucloxacillin</b>	Narrow spectrum Gram-POSITIVE <i>Staph.</i>	Skin/soft tissue infection; osteomyelitis; septic arthritis; endocarditis	Penicillinase-resistant penicillin	Destroys bacterial cell wall	Renal failure; <b>history of penicillin allergy; prior flucloxacillin-related hepatotoxicity</b> ; hepatic impairment
<b>Gentamicin</b>	Gram-POSITIVE Aerobes	Sepsis; pyelonephritis; complicated UTI; endocarditis; bacterial skin, eye, external ear infection	Aminoglycoside	Inhibits bacterial protein synthesis	Neonates; elderly; renal impairment; myasthenia gravis
<b>Levofloxacin</b>	Broad spectrum Gram-NEGATIVE (some Gram-positive cover)	UTI; severe gastroenteritis; LRTI	Quinolone	Inhibits bacterial DNA replication	Seizures; children; QT prolongation
<b>Meropenem</b>	Broad spectrum Gram-NEGATIVE (some Gram-positive cover)	UTI; RTI; Very severe or complicated antibiotic-resistant organisms	Cephalosporin	Destroys bacterial cell wall	<i>C. diff</i> risk; <b>allergy; anaphylactic reaction</b> ; epilepsy; renal impairment
<b>Metronidazole</b>	Anaerobic bacteria and protozoa	Antibiotic-associated colitis; oral infection; aspiration pneumonia; surgical/gynaecological infection; protozoal infection	-	Inhibits bacterial DNA replication	Severe liver damage; <b>alcohol</b>
<b>Neomycin</b>	Gram-POSITIVE Aerobes	Sepsis; pyelonephritis; complicated UTI; endocarditis; bacterial skin, eye, external ear infection	Aminoglycoside	Inhibits bacterial protein synthesis	Neonates; elderly; renal impairment; myasthenia gravis
<b>Nitrofurantoin</b>	Most bacteria causing UTI Gram-POSITIVE/NEGATIVE	UTI	-	Inhibits bacterial DNA replication	<b>Pregnant women towards term; babies &lt;3m/o; renal impairment</b> ; long-term prevention
<b>Phenoxymethylpenicillin</b>	Narrow spectrum Some Gram-POSITIVE cover and Gram-negative cocci only	Tonsillitis; pneumonia; endocarditis; skin/soft tissue infection; meningitis; septicaemia; gas gangrene	Penicillin	Destroys bacterial cell wall	Renal impairment; <b>penicillin allergy</b>
<b>Tazocin</b> (piperacillin with tazobactam)	Broad spectrum Gram-POSITIVE/NEGATIVE Anaerobes	LRTI; UTI; intra-abdominal sepsis; skin/soft tissue infection	Antipseudomonal penicillin	Destroys bacterial cell wall	<i>C. diff</i> risk; <b>penicillin allergy</b> ; moderate/severe renal impairment
<b>Trimethoprim</b>	Broad spectrum Gram-POSITIVE/NEGATIVE <b>INCREASING RESISTANCE</b>	Acute/recurrent UTI; acne; RTI; prostatitis; pneumocystis pneumonia	Anti-folate	Inhibits bacterial DNA replication	<b>First trimester of pregnancy</b> ; folate-deficiency; renal impairment; neonates; elderly; HIV infection
<b>Vancomycin</b>	Narrow spectrum Gram-POSITIVE (inc. MRSA)	Endocarditis; antibiotic-associated colitis	Glycopeptide	Destroys bacterial cell wall	Renal impairment; elderly