

Antibiotic Class	Drug Interactions
Penicillins	Oral contraceptives—failure (infrequent)
	Allopurinol—increased rash with ampicillin Aminoglycosides—when administered IV simultaneously, inactivation occurs Probenecid—reduced renal elimination of penicillin
Cephalosporins	Warfarin—cefotetan and cefoperazone enhance the anticoagulant effect of warfarin Antacids—may reduce the oral absorption of cefaclor , cefdinir , and cefpodoxime
Fluoroquinolones	Antacids, iron salts, sucralfate—absorption of the fluoroquinolone is reduced by chelation Theophylline—metabolism is slowed by ciprofloxacin , may cause theophylline toxicity; warfarin elimination is slowed by fluoroquinolones —follow clotting times carefully
Tetracyclines	Antacids, iron salts—bind to tetracycline and reduce oral absorption (occur least with doxycycline) Oral contraceptives—failure
Macrolides	Clarithromycin can increase levels of warfarin , cyclosporin, lovastatin , theophylline—monitor additive effects carefully
Vancomycin	Aminoglycosides—may increase risk of nephrotoxicity
Aminoglycosides	Neuromuscular blockers—may prolong respiratory depression; loop diuretics—may increase auditory toxicity
Bactrim	Warfarin—can prolong clotting times; phenytoin—increase in serum levels and possible toxicity