

Antimicrobial Drug-Food Interactions

Compiled April 2008

Compiled by:

Melissa Maiefski, Pharm.D. Candidate

Reviewed by:

Lily Chang, Pharm.D., BCPS, CDE

Jennifer Cowley, Pharm.D., BCPS

Elizabeth D. Hermsen, Pharm.D., M.B.A., BCPS-ID

Mark E. Rupp, M.D.

Lisa Worrall, Pharm.D., BCPS

Angela Yelinek-Post, Pharm.D.

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Antimicrobial	Drug-Food Interaction	Type of Interaction	Patient Directions
Abacavir	None		
Acyclovir	None		
Adefovir	None		
Amantadine	None		
Amoxicillin	None		
Amoxicillin/ clavulanate	None		
Ampicillin	Food	Food may result in a decreased ampicillin concentration	Take the medicine on an empty stomach, 1 hour before or 2 hours after meals with a full glass of water
Atovaquone	Food	Food, particularly high fat, increases atovaquone exposure	Take this medicine with a full meal.
Azithromycin	None		
Cefaclor	Food	Possible decrease in cefaclor concentrations	Take this medicine with or without food
Cefdinir	None		
Cefixime	None		
Cefpodoxime	None		
Cefprozil	None		
Cefuroxime	None		
Cephalexin	None		
Ciprofloxacin	Caffeine	Possible increase in caffeine concentrations and enhanced CNS stimulation	This typically occurs in heavy caffeine users. Avoid/minimize caffeine (coffee, soda, chocolate) while using this medicine.
	Cations (aluminum, calcium, magnesium, iron), antacids, dairy products	Possible decrease in ciprofloxacin concentrations	Take without food. Do not take with milk, yogurt, or other dairy products. Take 2h before or 6h after administration of di-/tri-valent cations (aluminum, calcium, magnesium, iron) or antacids.

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Clarithromycin	None		
Clindamycin	None		
Dapsone	None		
Dicloxacillin	None		
Didanosine	Food	Food may reduce didanosine exposure	Take this medicine on an empty stomach.
Doxycycline	None		
Efavirenz	Food	Food may increase absorption	Take this medicine on an empty stomach, preferably at bedtime. Swallow this medicine with water.
Entecavir	Food	Food may decrease entecavir exposure	Take this medicine on an empty stomach, at least 2 hours before or 2 hours after a meal
Erythromycin	Food	Food may result in altered erythromycin concentrations	Best taken on an empty stomach, but may be taken with a low-fat meal/snack to prevent stomach upset.
	Grapefruit Juice	Possible increase in bioavailability	Try to avoid grapefruit juice when possible.
Erythromycin/sulfisoxazole	Food	Food may result in altered erythromycin concentrations	Best taken on an empty stomach, but may be taken with food if stomach upset occurs.
	Grapefruit Juice	Possible increase in bioavailability	Try to avoid grapefruit juice when possible.
Ethambutol	None		
Famciclovir	None		
Fluconazole	None		
Flucytosine	None		
Ganciclovir	None		
Gemifloxacin	Cations (aluminum, calcium, magnesium, iron), antacids	Possible decrease in gemifloxacin concentrations	Take without food. Do not take with milk, yogurt, or other dairy products. Take 2h before or 3h after administration of di-/tri-valent cations (aluminum, calcium, magnesium, iron) or antacids.

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Indinavir	Food	Food may decrease bioavailability of indinavir	Take on an empty stomach, at least 1 hour before or 2 hours after a meal. Drink water, skim or non-fat milk, juice, coffee, or tea when taking the medicine. If you need to take the medicine with food, eat a small, low-fat, low-protein meal.
Isoniazid	Tyramine-containing food	Tyramine foods may increase blood pressure	Avoid foods or drinks that contain tyramine. This includes aged cheeses, dried meats, sauerkraut, soy sauce, tap beers, or red wines.
	Food	Food may decrease isoniazid exposure	Take on an empty stomach (1 hour before or 2 hours after a meal). May be taken with food to avoid stomach upset.
	Histamine-containing foods	Possible exaggerated response to histamine-containing foods	Fish (tuna, skipjack, or other tropical fish) may cause headache, flushing, pounding heartbeat, sweating, dizziness, chills, or diarrhea. If you have these symptoms, call your doctor.
Itraconazole	Food	Food may decrease or increase bioavailability, depending on the dosage form	Take the capsule just after eating a full meal. Take the oral solution on an empty stomach.
	Grapefruit Juice	Possible decrease in bioavailability	Try to avoid grapefruit juice when possible.
Lamivudine	None		
Levofloxacin	Cations (aluminum, calcium, magnesium, iron), antacids, dairy products	Possible decrease in levofloxacin concentrations	Take without food. Do not take with milk, yogurt, or other dairy products. Take 2h before or 2h after administration of di-/tri-valent cations (aluminum, calcium, magnesium, iron) or antacids.
Linezolid	Tyramine-containing food	Tyramine foods may result in a significant pressor response	Avoid foods or drinks that contain tyramine. This includes aged cheeses, dried meats, sauerkraut, soy sauce, tap beers, or red wines.
Lopinavir/ ritonavir	None		
Metronidazole	None		

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Minocycline	Cations (aluminum, calcium, magnesium, iron), antacids, dairy products	Possible decrease in minocycline concentrations	Take without food. Do not take with milk, yogurt, or other dairy products. Take 2h before or 6h after administration of di-/tri-valent cations (aluminum, calcium, magnesium, iron) or antacids.
Moxifloxacin	Cations (aluminum, magnesium, iron), antacids	Possible decrease in moxifloxacin concentrations	Take without food. Take 4h before or 8h after administration of di-/tri-valent cations (aluminum, magnesium, iron) or antacids.
Nelfinavir	Food	Food may increase nelfinavir exposure	Take this medicine with food or milk.
Nevirapine	None		
Nitrofurantoin	None		
Oseltamivir	None		
Penicillin VK	None		
Posaconazole	Food	Food, particularly high fat, may increase posaconazole exposure and increase concentrations	Take this medicine with food or a liquid nutritional supplement
Primaquine	Grapefruit Juice	Possible increase in plasma concentrations	Try to avoid grapefruit juice when possible.
Pyrazinamide	None		
Pyrimethamine	None		
Ribavirin	None		
Rifabutin	None		
Rifampin	Food	Food may decrease rifampin concentrations	Rifampin should be taken on an empty stomach, 1 hour before or 2 hours after a meal.
Rimantadine	None		
Ritonavir	None		

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Saquinavir	Grapefruit Juice	Possible increase in bioavailability	Take this medicine within two hours after eating a full meal. The medicine may not work as well if you take it on an empty stomach. Try to avoid grapefruit juice.
Stavudine	None		
Sulfadiazine	None		
Telithromycin	None		
Tenofovir	None		
Tetracycline	Cations (aluminum, calcium, magnesium, iron), antacids, dairy products	Possible decrease in tetracycline concentrations	It is best to take this medicine on an empty stomach, 1 hour before or 2 hours after a meal. Swallow the medicine with a full glass of water. Do not take with milk, yogurt, or other dairy products. Take 2h before or 6h after administration of di-/tri-valent cations (aluminum, calcium, magnesium, iron) or antacids.
Tipranavir	None		
Trimethoprim	None		
Trimethoprim/ sulfamethoxazole	None		
Valacyclovir	None		
Valganciclovir	High Fat Food	Possible increase in ganciclovir exposure	Take this medicine with food or milk.
Voriconazole	Food	Possible decrease in voriconazole exposure	Take this medicine at least 1 hour before or 1 hour after a meal.
Zalcitabine	None		
Zanamivir	None		
Zidovudine	None		

References:

1. MICROMEDEX® Healthcare Series. Copyright 1974-2008. Thomson Healthcare.
2. Clinical Pharmacology. Copyright 2008. Gold Standard, Inc.