

Drug Administration and Food

Date of Revision: November 1, 2019

Introduction: The table below provides an overview of current recommendations for administration of oral drugs with respect to food. This information is not intended to present a comprehensive review; the reader is therefore encouraged to seek additional and confirmatory information.

Adherence to medication regimens can be encouraged by scheduling drug administration to coincide with routine activities such as meal times. Foods and beverages may interact with medications, affecting their bioavailability, metabolism or excretion. While such interactions can influence the effectiveness of a drug by altering the anticipated therapeutic effect, the clinical significance of most food-drug interactions is not clear (see also *Drug Administration and Grapefruit*).

The following recommendations for drug administration in relation to food are compiled from product monographs and, where necessary, manufacturers were contacted directly for clarification. The table is not meant to be exhaustive.

The recommendations made in this table are not absolute; clinical judgment must be used in their interpretation. More important is the consistency of drug administration to facilitate adherence and prevent fluctuations in the therapeutic effect of the drug.

Administration Definitions

Empty Stomach: 1 hour before or 2 hours after meals with a full glass of liquid, usually water.

Before Meals: Usually 15–30 minutes before meals.

Empty Stomach Preferably: As for Empty Stomach (above); however, may be taken with food if gastric upset occurs.

With or After Meals: Taken during or immediately after meals.

With or Without Food: May be given without regard to meals. The notation "be consistent" in the comments column indicates that the drug should be taken consistently with or without food, as presence or absence of food may alter bioavailability.

Do Not Crush or Chew: Crushing enteric-coated, extended-release, sublingual or buccal formulations can render the drug ineffective and/or increase the risk of adverse events and toxicity. Other considerations related to crushing include potential

Drug Name	Administration	Comments
5-aminosalicylic acid (EC)	<ul style="list-style-type: none"> • Before Meals • Do Not Crush or Chew 	Take with a glass of water
abacavir	<ul style="list-style-type: none"> • With or Without Food 	
abacavir/dolutegravir/lamivudine	<ul style="list-style-type: none"> • With or Without Food 	
abacavir/lamivudine	<ul style="list-style-type: none"> • With or Without Food 	
abacavir/lamivudine/zidovudine	<ul style="list-style-type: none"> • With or Without Food 	
abemaciclib	<ul style="list-style-type: none"> • With or Without Food • Do Not Crush or Chew 	Swallow whole; be consistent with timing; see also <i>Drug Administration and Grapefruit</i>
abiraterone	<ul style="list-style-type: none"> • Empty Stomach • Do Not Crush or Chew 	Not to be taken with solid or liquid food; swallow whole with a glass of water
acamprosate (EC)	<ul style="list-style-type: none"> • With or Without Food • Do Not Crush or Chew 	Be consistent; do not split tablets
acarbose	<ul style="list-style-type: none"> • With or After Meals 	Take with first bite of a main meal
acebutolol	<ul style="list-style-type: none"> • With or Without Food 	
acenocoumarol (nicoumalone)	<ul style="list-style-type: none"> • With or Without Food 	Be consistent; avoid abrupt changes in diet to maintain constant vitamin K intake; for vitamin K content of specific foods, see depts.washington.edu/anticoag/home/content/patient-education-0
acetaminophen (ER)	<ul style="list-style-type: none"> • Empty Stomach • Do Not Crush or Chew 	
acetaminophen (tablet)	<ul style="list-style-type: none"> • With or Without Food 	
acetazolamide	<ul style="list-style-type: none"> • With or Without Food 	Food decreases GI side effects

Drug Name	Administration	Comments
acetylcysteine	<ul style="list-style-type: none"> With or Without Food 	
acitretin	<ul style="list-style-type: none"> With or After Meals 	Food optimizes absorption
acyclovir	<ul style="list-style-type: none"> With or Without Food 	
adefovir	<ul style="list-style-type: none"> With or Without Food 	
afatinib	<ul style="list-style-type: none"> Empty Stomach 	Food reduces absorption
alendronate	<ul style="list-style-type: none"> Before Meals Do Not Crush or Chew 	Take in the morning with a glass of plain water only and at least 30 min before any food, beverage or other medication
afacalcidol	<ul style="list-style-type: none"> With or After Meals 	Take with a glass of water or milk
alfuzosin (ER)	<ul style="list-style-type: none"> With or After Meals Do Not Crush or Chew 	
alginic acid	<ul style="list-style-type: none"> With or Without Food 	Chew tablets; follow with drink of water or milk
aliskiren	<ul style="list-style-type: none"> With or Without Food 	Be consistent; a high-fat meal decreases absorption; see also <i>Drug Administration and Grapefruit</i>
alitretinoin	<ul style="list-style-type: none"> With or After Meals 	
allopurinol	<ul style="list-style-type: none"> With or After Meals 	Food decreases GI side effects
almotriptan	<ul style="list-style-type: none"> With or Without Food 	
alogliptin	<ul style="list-style-type: none"> With or Without Food 	
alogliptin/metformin	<ul style="list-style-type: none"> With or After Meals 	Food decreases GI side effects
alpha-D-galactosidase	<ul style="list-style-type: none"> With or After Meals 	Swallow, chew or crumble onto food; add only to food cool enough to eat
alprazolam	<ul style="list-style-type: none"> With or Without Food 	
aluminum hydroxide	<ul style="list-style-type: none"> With or Without Food 	
amantadine	<ul style="list-style-type: none"> With or Without Food 	
ambrisentan	<ul style="list-style-type: none"> With or Without Food 	
amiloride	<ul style="list-style-type: none"> With or After Meals 	Food decreases GI side effects; avoid large quantities of potassium-rich foods
amiodarone	<ul style="list-style-type: none"> With or Without Food 	Be consistent; food decreases GI side effects; see also <i>Drug Administration and Grapefruit</i>

mucosal irritation or carcinogenic effects.

Comments: Administration instructions, other relevant information.

Related Links

- [Drug Administration and Grapefruit](#)
- [Body Weight Calculator](#)
- [Renal Function Calculator](#)

Drug Name	Administration	Comments
amitriptyline	<ul style="list-style-type: none"> • With or Without Food 	
amlodipine	<ul style="list-style-type: none"> • With or Without Food 	
amlodipine/telmisartan	<ul style="list-style-type: none"> • With or Without Food 	Be consistent
amoxicillin	<ul style="list-style-type: none"> • With or Without Food 	
amoxicillin/clavulanic acid	<ul style="list-style-type: none"> • With or Without Food • Do Not Crush or Chew 	Food decreases GI side effects
amphetamines, mixed salts (Adderall XR)	<ul style="list-style-type: none"> • With or Without Food • Do Not Crush or Chew 	Can sprinkle contents of capsule onto applesauce; do not chew or crush contents
ampicillin	<ul style="list-style-type: none"> • Empty Stomach 	
anagrelide	<ul style="list-style-type: none"> • With or Without Food 	
anastrozole	<ul style="list-style-type: none"> • With or Without Food 	Take with a glass of water
apalutamide	<ul style="list-style-type: none"> • With or Without Food • Do Not Crush or Chew 	Swallow whole
apixaban	<ul style="list-style-type: none"> • With or Without Food 	See also <i>Drug Administration and Grapefruit</i>
apremilast	<ul style="list-style-type: none"> • With or Without Food • Do Not Crush or Chew 	
aprepitant	<ul style="list-style-type: none"> • With or Without Food 	See also <i>Drug Administration and Grapefruit</i>
aripiprazole	<ul style="list-style-type: none"> • With or Without Food 	
ASA (EC)	<ul style="list-style-type: none"> • With or Without Food • Do Not Crush or Chew 	Take with a glass of water
ASA (IR)	<ul style="list-style-type: none"> • With or After Meals 	Food decreases GI side effects
asenapine	<ul style="list-style-type: none"> • Do Not Crush or Chew 	Sublingual; do not eat or drink for 10 min after administration
atazanavir	<ul style="list-style-type: none"> • With or After Meals • Do Not Crush or Chew 	Food enhances absorption; see also <i>Drug Administration and Grapefruit</i>
atenolol	<ul style="list-style-type: none"> • With or Without Food 	See also <i>Drug Administration and Grapefruit</i>

Drug Name	Administration	Comments
atomoxetine	<ul style="list-style-type: none"> • With or Without Food • Do Not Crush or Chew 	
atorvastatin	<ul style="list-style-type: none"> • With or Without Food 	See also <i>Drug Administration and Grapefruit</i>
atovaquone	<ul style="list-style-type: none"> • With or After Meals 	Food increases bioavailability
atovaquone/proguanil	<ul style="list-style-type: none"> • With or After Meals 	Daily dose should be taken with food or milk; absorption reduced when fasting; may be crushed and mixed with condensed milk just prior to administration
attapulgate, activated (suspension)	<ul style="list-style-type: none"> • With or Without Food 	
attapulgate, activated (tablet)	<ul style="list-style-type: none"> • With or Without Food • Do Not Crush or Chew 	Take with a glass of water
auranofin	<ul style="list-style-type: none"> • With or After Meals 	
axitinib	<ul style="list-style-type: none"> • With or Without Food • Do Not Crush or Chew 	See also <i>Drug Administration and Grapefruit</i>
azathioprine	<ul style="list-style-type: none"> • With or Without Food • Do Not Crush or Chew 	Food decreases GI side effects; cytotoxic
azilsartan	<ul style="list-style-type: none"> • With or Without Food 	
azilsartan/chlorthalidone	<ul style="list-style-type: none"> • With or Without Food 	
azithromycin (suspension)	<ul style="list-style-type: none"> • With or Without Food 	
azithromycin (tablet)	<ul style="list-style-type: none"> • With or Without Food 	
baclofen	<ul style="list-style-type: none"> • With or Without Food 	
baricitinib	<ul style="list-style-type: none"> • With or Without Food 	
bazedoxifene acetate/ conjugated estrogens	<ul style="list-style-type: none"> • With or Without Food • Do Not Crush or Chew 	See also <i>Drug Administration and Grapefruit</i>
benazepril	<ul style="list-style-type: none"> • With or Without Food 	
benztropine	<ul style="list-style-type: none"> • With or Without Food 	Food decreases GI side effects
betahistine	<ul style="list-style-type: none"> • With or After Meals 	Food decreases GI side effects

Drug Name	Administration	Comments
betaine	<ul style="list-style-type: none"> • With or Without Food 	Dissolve dose in 120–180 mL of water, juice, milk, formula or mix with food for immediate ingestion
bethanechol	<ul style="list-style-type: none"> • Empty Stomach 	Avoid taking with meals; nausea and vomiting may occur soon after eating
bezafibrate (SR)	<ul style="list-style-type: none"> • With or After Meals • Do Not Crush or Chew 	Take with a glass of water
bicalutamide	<ul style="list-style-type: none"> • With or Without Food • Do Not Crush or Chew 	Take with a glass of water
bilastine	<ul style="list-style-type: none"> • Empty Stomach 	May split tablet to facilitate swallowing; take 1 h before or 2 h after food; see also <i>Drug Administration and Grapefruit</i>
bisacodyl (EC)	<ul style="list-style-type: none"> • Empty Stomach • Do Not Crush or Chew 	Take with a glass of water; do not take with milk
bisoprolol	<ul style="list-style-type: none"> • With or Without Food 	
bosentan	<ul style="list-style-type: none"> • With or Without Food 	
bosutinib	<ul style="list-style-type: none"> • With or After Meals • Do Not Crush or Chew 	See also <i>Drug Administration and Grapefruit</i>
brexpiprazole	<ul style="list-style-type: none"> • With or Without Food 	
brigatinib	<ul style="list-style-type: none"> • With or Without Food • Do Not Crush or Chew 	Swallow whole with a glass of water; see also <i>Drug Administration and Grapefruit</i>
brivaracetam	<ul style="list-style-type: none"> • With or Without Food 	
bromazepam	<ul style="list-style-type: none"> • With or Without Food 	
bromocriptine	<ul style="list-style-type: none"> • With or After Meals 	Food decreases GI side effects
budesonide (capsules, controlled ileal-release)	<ul style="list-style-type: none"> • Before Meals • Do Not Crush or Chew 	Take with a glass of water; see also <i>Drug Administration and Grapefruit</i>
budesonide (DR/ER tablets)	<ul style="list-style-type: none"> • With or After Meals • Do Not Crush or Chew 	Take in the morning, preferably after breakfast, with a glass of water; see also <i>Drug Administration and Grapefruit</i>
bumetanide	<ul style="list-style-type: none"> • With or Without Food 	Be consistent
buprenorphine/naloxone	<ul style="list-style-type: none"> • Do Not Crush or Chew 	Sublingual; place under tongue until dissolved; takes 5–10 min for the tablet to dissolve; do not swallow

Drug Name	Administration	Comments
bupropion (SR, XL)	<ul style="list-style-type: none"> • With or Without Food • Do Not Crush or Chew 	
bupirone	<ul style="list-style-type: none"> • With or Without Food 	Be consistent; food may increase bioavailability; see also <i>Drug Administration and Grapefruit</i>
cabergoline	<ul style="list-style-type: none"> • With or Without Food 	Food decreases GI side effects
cabozantinib	<ul style="list-style-type: none"> • Empty Stomach • Do Not Crush or Chew 	Swallow whole; see also <i>Drug Administration and Grapefruit</i>
calcitriol	<ul style="list-style-type: none"> • With or Without Food 	
calcium salts	<ul style="list-style-type: none"> • With or After Meals 	Food increases absorption
canagliflozin	<ul style="list-style-type: none"> • With or Without Food 	Take before the first meal of the day
canagliflozin/metformin	<ul style="list-style-type: none"> • With or After Meals 	
candesartan	<ul style="list-style-type: none"> • With or Without Food 	
candesartan/ hydrochlorothiazide	<ul style="list-style-type: none"> • With or Without Food 	
cannabis (oral)	<ul style="list-style-type: none"> • With or Without Food 	Be consistent; see also <i>Drug Administration and Grapefruit</i>
capecitabine	<ul style="list-style-type: none"> • With or After Meals • Do Not Crush or Chew 	Take with meal or within 30 min after end of a meal; take with a glass of water; cytotoxic
captopril	<ul style="list-style-type: none"> • Before Meals 	1 h before meals preferred; may take with food but be consistent
carbamazepine (CR)	<ul style="list-style-type: none"> • With or After Meals • Do Not Crush or Chew 	See also <i>Drug Administration and Grapefruit</i>
carbamazepine (IR)	<ul style="list-style-type: none"> • With or After Meals 	Food decreases GI side effects; see also <i>Drug Administration and Grapefruit</i>
carvedilol	<ul style="list-style-type: none"> • With or After Meals • Do Not Crush or Chew 	Food slows rate of absorption and incidence of orthostatic effects especially during dose titration; take with a glass of water; see also <i>Drug Administration and Grapefruit</i>
cefaclor	<ul style="list-style-type: none"> • With or Without Food 	Food decreases GI side effects
cefadroxil	<ul style="list-style-type: none"> • With or Without Food 	Food decreases GI side effects
cefixime	<ul style="list-style-type: none"> • With or Without Food 	Food decreases GI side effects
cefprozil	<ul style="list-style-type: none"> • With or Without Food 	Food decreases GI side effects

Drug Name	Administration	Comments
cefuroxime axetil (suspension)	<ul style="list-style-type: none"> With or Without Food 	Food increases absorption; may add to cold milk, lemonade, apple, orange or grape juice before administration; drink immediately
cefuroxime axetil (tablet)	<ul style="list-style-type: none"> With or Without Food Do Not Crush or Chew 	Food increases absorption; take with a glass of water; bitter taste if chewed or crushed
celecoxib	<ul style="list-style-type: none"> With or Without Food 	
cephalexin	<ul style="list-style-type: none"> With or Without Food 	Maximum peak levels when taken on an empty stomach
ceritinib	<ul style="list-style-type: none"> Empty Stomach Do Not Crush or Chew 	Take at least 2 h before or after food
cetirizine	<ul style="list-style-type: none"> With or Without Food 	
chloral hydrate	<ul style="list-style-type: none"> With or Without Food 	Dilute with 120 mL of water or other liquid, e.g., fruit juice, to reduce gastric irritation
chlorambucil	<ul style="list-style-type: none"> With or Without Food Do Not Crush or Chew 	Do not divide tablets (cytotoxic)
chloramphenicol	<ul style="list-style-type: none"> Empty Stomach Preferably 	IV solution can be given orally; bitter taste can be masked by diluting in milk
chlordiazepoxide	<ul style="list-style-type: none"> With or Without Food 	
chlordiazepoxide/clidinium	<ul style="list-style-type: none"> Before Meals 	Take 30–60 min before meals to maximize absorption
chloroquine	<ul style="list-style-type: none"> With or After Meals 	Food decreases GI side effects; may be crushed and mixed with flavoured vehicle to mask bitter taste
chlorpheniramine	<ul style="list-style-type: none"> With or Without Food 	
chlorpromazine	<ul style="list-style-type: none"> With or Without Food Do Not Crush or Chew 	Bitter taste if crushed or chewed
chlorthalidone	<ul style="list-style-type: none"> With or Without Food 	Food decreases GI side effects
cholecalciferol	<ul style="list-style-type: none"> With or Without Food 	May mix liquid with formula, fruit juice or other foods
cholera vaccine and traveller's diarrhea (inactivated)	<ul style="list-style-type: none"> Empty Stomach 	Vaccine is acid labile; avoid food and drink 1 h before and after vaccine administration. Dissolve effervescent granules (sodium hydrogen carbonate) in a glass of water (~150 mL); shake vaccine vial then mix with sodium hydrogen carbonate solution; drink the mixture within 2 h (keep at room temperature)
cholestyramine	<ul style="list-style-type: none"> With or After Meals 	Mix with water, milk, fruit juice or other noncarbonated beverage; may also be mixed with highly fluid soups or pulpy fruits with high moisture content, e.g., applesauce, crushed pineapple
cilazapril	<ul style="list-style-type: none"> With or Without Food 	Be consistent

Drug Name	Administration	Comments
cimetidine	<ul style="list-style-type: none"> • With or Without Food 	Multiple doses—with meals and at bedtime
cinacalcet	<ul style="list-style-type: none"> • With or After Meals • Do Not Crush or Chew 	
ciprofloxacin (IR tablet)	<ul style="list-style-type: none"> • With or Without Food 	Take with a glass of water; food decreases GI side effects; faster absorption on empty stomach; do not take with dairy products alone or within 2 h of calcium intake >800 mg; avoid excessive caffeine intake; see also <i>Drug Administration and Grapefruit</i>
ciprofloxacin (liquid)	<ul style="list-style-type: none"> • With or Without Food • Do Not Crush or Chew 	Do not chew the microcapsules; take with a glass of water; food decreases GI side effects; faster absorption on empty stomach; do not take with dairy products alone or within 2 h of calcium intake >800 mg; avoid excessive caffeine intake; see also <i>Drug Administration and Grapefruit</i>
ciprofloxacin (XL tablet)	<ul style="list-style-type: none"> • With or Without Food • Do Not Crush or Chew 	Take with a glass of water; food decreases GI side effects; do not take with dairy products alone or within 2 h of calcium intake >800 mg; avoid excessive caffeine intake; see also <i>Drug Administration and Grapefruit</i>
citalopram	<ul style="list-style-type: none"> • With or Without Food 	
clarithromycin (IR tablet)	<ul style="list-style-type: none"> • With or Without Food 	
clarithromycin (suspension)	<ul style="list-style-type: none"> • With or Without Food 	
clarithromycin (XL tablet)	<ul style="list-style-type: none"> • With or After Meals • Do Not Crush or Chew 	Food increases bioavailability
clindamycin	<ul style="list-style-type: none"> • With or Without Food 	Take with a glass of water to avoid esophageal irritation
clobazam	<ul style="list-style-type: none"> • With or Without Food 	
clodronate	<ul style="list-style-type: none"> • Empty Stomach • Do Not Crush or Chew 	Check specific product monograph; take at least 1–2 h before or after food; food decreases absorption; avoid concomitant use of milk, antacids or drugs containing calcium, magnesium, iron or aluminum; swallow whole with a glass of water
clofedanol	<ul style="list-style-type: none"> • With or Without Food 	
clomipramine	<ul style="list-style-type: none"> • With or Without Food 	Food decreases GI side effects; see also <i>Drug Administration and Grapefruit</i>
clonazepam	<ul style="list-style-type: none"> • With or Without Food 	
clonidine	<ul style="list-style-type: none"> • With or Without Food 	
clopidogrel	<ul style="list-style-type: none"> • With or Without Food 	See also <i>Drug Administration and Grapefruit</i>
clorazepate	<ul style="list-style-type: none"> • With or Without Food 	
cloxacillin	<ul style="list-style-type: none"> • Empty Stomach 	

Drug Name	Administration	Comments
clozapine	<ul style="list-style-type: none"> • With or Without Food 	
cobimetinib	<ul style="list-style-type: none"> • With or Without Food 	
codeine	<ul style="list-style-type: none"> • With or Without Food 	
codeine (CR tablet)	<ul style="list-style-type: none"> • With or Without Food • Do Not Crush or Chew 	All Codeine Contin strengths may be halved except 50 mg
colchicine	<ul style="list-style-type: none"> • With or Without Food 	See also <i>Drug Administration and Grapefruit</i>
colesevelam	<ul style="list-style-type: none"> • With or After Meals 	Take with a meal and liquid
colestipol (granules)	<ul style="list-style-type: none"> • With or After Meals 	Add to water, milk, flavoured drink, juice, carbonated beverage or any other liquid; may also add to hot or cold cereals, soups (avoid chunky soups), yogurt, pudding, cottage cheese or pulpy fruits, e.g., crushed pineapple, pears
colestipol (tablet)	<ul style="list-style-type: none"> • With or After Meals • Do Not Crush or Chew 	Take with a glass of water or any liquid; do not cut
cortisone acetate	<ul style="list-style-type: none"> • With or After Meals 	Food decreases GI side effects
crizotinib	<ul style="list-style-type: none"> • With or Without Food • Do Not Crush or Chew 	See also <i>Drug Administration and Grapefruit</i>
cyclobenzaprine	<ul style="list-style-type: none"> • With or Without Food 	
cyclophosphamide	<ul style="list-style-type: none"> • With or Without Food • Do Not Crush or Chew 	Food decreases GI side effects; cytotoxic; see also <i>Drug Administration and Grapefruit</i>
cyclosporine (capsule)	<ul style="list-style-type: none"> • With or Without Food • Do Not Crush or Chew 	Be consistent; see also <i>Drug Administration and Grapefruit</i>
cyclosporine (liquid)	<ul style="list-style-type: none"> • With or Without Food 	Be consistent; mix with any room temperature beverage excluding grapefruit juice; be consistent with beverage used; see also <i>Drug Administration and Grapefruit</i>
cyproheptadine	<ul style="list-style-type: none"> • With or Without Food 	
cyproterone	<ul style="list-style-type: none"> • With or After Meals 	
dabigatran	<ul style="list-style-type: none"> • With or Without Food • Do Not Crush or Chew 	

Drug Name	Administration	Comments
dabrafenib	<ul style="list-style-type: none"> • Empty Stomach • Do Not Crush or Chew 	
daclatasvir	<ul style="list-style-type: none"> • With or Without Food 	
dacomitinib	<ul style="list-style-type: none"> • With or Without Food 	Be consistent
danazol	<ul style="list-style-type: none"> • With or Without Food 	
dantrolene	<ul style="list-style-type: none"> • With or Without Food 	
dapagliflozin	<ul style="list-style-type: none"> • With or Without Food 	
dapagliflozin/metformin	<ul style="list-style-type: none"> • With or After Meals 	
darifenacin (ER)	<ul style="list-style-type: none"> • With or Without Food • Do Not Crush or Chew 	See also <i>Drug Administration and Grapefruit</i>
darunavir	<ul style="list-style-type: none"> • With or After Meals 	
darunavir/cobicistat	<ul style="list-style-type: none"> • With or After Meals 	
dasabuvir	<ul style="list-style-type: none"> • With or After Meals • Do Not Crush or Chew 	
dasatinib	<ul style="list-style-type: none"> • With or Without Food • Do Not Crush or Chew 	See also <i>Drug Administration and Grapefruit</i>
deferasirox	<ul style="list-style-type: none"> • Empty Stomach 	Take at least 30 min prior to first meal of the day; do not swallow whole; completely disperse tablets by stirring in noncarbonated water, orange juice or apple juice only until a fine suspension is obtained; disperse doses of <1 g in 100 mL and doses of >1 g in 200 mL
desipramine	<ul style="list-style-type: none"> • With or Without Food 	
desloratadine	<ul style="list-style-type: none"> • With or Without Food 	
desloratadine/pseudoephedrine	<ul style="list-style-type: none"> • With or Without Food • Do Not Crush or Chew 	
desmopressin acetate	<ul style="list-style-type: none"> • With or Without Food 	
desvenlafaxine	<ul style="list-style-type: none"> • With or Without Food • Do Not Crush or Chew 	

Drug Name	Administration	Comments
dexamethasone	<ul style="list-style-type: none"> • With or After Meals 	Food decreases GI side effects
dexlansoprazole	<ul style="list-style-type: none"> • With or Without Food • Do Not Crush or Chew 	May sprinkle contents of capsule onto applesauce and swallow immediately without chewing
dextroamphetamine (spansules)	<ul style="list-style-type: none"> • With or Without Food • Do Not Crush or Chew 	
dextroamphetamine (tablet)	<ul style="list-style-type: none"> • With or Without Food 	
dextromethorphan	<ul style="list-style-type: none"> • With or Without Food 	See also <i>Drug Administration and Grapefruit</i>
diazepam	<ul style="list-style-type: none"> • With or Without Food 	See also <i>Drug Administration and Grapefruit</i>
diazoxide	<ul style="list-style-type: none"> • With or Without Food 	Be consistent
diclofenac	<ul style="list-style-type: none"> • With or After Meals • Do Not Crush or Chew 	Food decreases GI side effects; take with a glass of water or milk; EC or SR dosage forms; local irritation if regular dosage form is crushed or chewed
diclofenac (powder)	<ul style="list-style-type: none"> • With or After Meals 	Completely dissolve powder in 30–60 mL of water and drink immediately; food decreases stomach irritation but delays absorption
dicyclomine	<ul style="list-style-type: none"> • With or Without Food 	
didanosine (EC)	<ul style="list-style-type: none"> • Empty Stomach • Do Not Crush or Chew 	Take at least 30 min before a meal or 2 h after eating
dienogest	<ul style="list-style-type: none"> • With or Without Food 	See also <i>Drug Administration and Grapefruit</i>
diflunisal	<ul style="list-style-type: none"> • With or After Meals • Do Not Crush or Chew 	Food decreases GI side effects; take with a glass of water or milk
digoxin	<ul style="list-style-type: none"> • With or Without Food 	Meals high in bran fibre may reduce amount of drug absorbed
diltiazem (CD or SR)	<ul style="list-style-type: none"> • With or Without Food • Do Not Crush or Chew 	See also <i>Drug Administration and Grapefruit</i>
diltiazem (IR)	<ul style="list-style-type: none"> • Before Meals 	See also <i>Drug Administration and Grapefruit</i>
diltiazem (XC)	<ul style="list-style-type: none"> • With or Without Food • Do Not Crush or Chew 	Once daily at bedtime; see also <i>Drug Administration and Grapefruit</i>
dimenhydrinate	<ul style="list-style-type: none"> • With or Without Food 	

Drug Name	Administration	Comments
dimethyl fumarate (DR)	<ul style="list-style-type: none"> With or Without Food Do Not Crush or Chew 	
diphenhydramine	<ul style="list-style-type: none"> With or Without Food 	
dipyridamole	<ul style="list-style-type: none"> Before Meals 	Preferable to take 1 h before meals; may take with milk to reduce GI side effects
dipyridamole (ER)/ ASA (IR)	<ul style="list-style-type: none"> With or Without Food Do Not Crush or Chew 	Swallow whole with a glass of water; dipyridamole pellets are extended-release
disopyramide	<ul style="list-style-type: none"> With or Without Food 	
divalproex sodium (EC)	<ul style="list-style-type: none"> With or Without Food Do Not Crush or Chew 	Food decreases GI side effects
docusate calcium	<ul style="list-style-type: none"> With or Without Food 	Swallow whole with a glass of water
docusate sodium (capsule)	<ul style="list-style-type: none"> With or Without Food Do Not Crush or Chew 	Swallow whole with a glass of water
docusate sodium (drops/syrup)	<ul style="list-style-type: none"> With or Without Food 	Dilute with milk, fruit juice or infant formula to mask bitter taste
dolutegravir	<ul style="list-style-type: none"> With or Without Food 	
dolutegravir/rilpivirine	<ul style="list-style-type: none"> With or After Meals 	Take with a meal (does <i>not</i> include meal replacement or protein drink)
domperidone	<ul style="list-style-type: none"> Before Meals 	See also <i>Drug Administration and Grapefruit</i>
donepezil	<ul style="list-style-type: none"> With or Without Food 	
doravirine	<ul style="list-style-type: none"> With or Without Food 	
doravirine-lamivudine-tenofovir	<ul style="list-style-type: none"> With or Without Food 	
doxazosin	<ul style="list-style-type: none"> With or Without Food 	
doxepin (capsule)	<ul style="list-style-type: none"> With or Without Food 	
doxepin (tablet)	<ul style="list-style-type: none"> Empty Stomach 	Food delays absorption and increases exposure, increasing risk of next-day effects
doxycycline hyclate (capsule, 20 mg)	<ul style="list-style-type: none"> Empty Stomach 	Take 1 h before morning and evening meal; take with a glass of water to avoid esophageal ulceration; avoid concomitant use of antacids or drugs containing aluminum, calcium, magnesium or iron

Drug Name	Administration	Comments
doxycycline hyclate (capsule/tablet, 100 mg)	<ul style="list-style-type: none"> • With or After Meals 	Food decreases GI side effects; take with a glass of water to avoid esophageal ulceration; avoid concomitant use of antacids or drugs containing aluminum, calcium, magnesium or iron
doxycycline monohydrate (MR capsule)	<ul style="list-style-type: none"> • Empty Stomach • Do Not Crush or Chew 	Take with a glass of water to avoid esophageal ulceration; avoid concomitant use of antacids or drugs containing aluminum, calcium, magnesium or iron
doxylamine/pyridoxine	<ul style="list-style-type: none"> • With or Without Food 	
dronedarone	<ul style="list-style-type: none"> • With or After Meals 	Take with morning and evening meal; see also <i>Drug Administration and Grapefruit</i>
duloxetine (DR capsule)	<ul style="list-style-type: none"> • With or Without Food • Do Not Crush or Chew 	Do not sprinkle contents on food or mix with liquids
dutasteride	<ul style="list-style-type: none"> • With or Without Food • Do Not Crush or Chew 	
edoxaban	<ul style="list-style-type: none"> • With or Without Food 	
efavirenz	<ul style="list-style-type: none"> • Empty Stomach • Do Not Crush or Chew 	Swallow whole with a glass of water preferably at bedtime; capsules may be opened and mixed with applesauce, grape jelly or plain yogourt and administered within 30 min
efavirenz/emtricitabine/tenofovir	<ul style="list-style-type: none"> • Empty Stomach 	Take with a glass of water preferably at bedtime
elagolix	<ul style="list-style-type: none"> • With or Without Food 	
eletriptan	<ul style="list-style-type: none"> • With or Without Food • Do Not Crush or Chew 	Swallow whole with a glass of water
eltrombopag olamine	<ul style="list-style-type: none"> • With or Without Food 	Take at least 4 h before or after dairy products, antacids or mineral supplements
eluxadoline	<ul style="list-style-type: none"> • With or After Meals 	
elvitegravir/cobicistat/emtricitabine/tenofovir	<ul style="list-style-type: none"> • With or After Meals 	
empagliflozin	<ul style="list-style-type: none"> • With or Without Food 	
empagliflozin/linagliptin	<ul style="list-style-type: none"> • With or Without Food • Do Not Crush or Chew 	Can be taken at any time during the day; aim for consistent timing
empagliflozin/metformin	<ul style="list-style-type: none"> • With or After Meals 	
emtricitabine/bictegravir/tenofovir	<ul style="list-style-type: none"> • With or Without Food 	

Drug Name	Administration	Comments
emtricitabine/darunavir cobicistat/tenofovir	<ul style="list-style-type: none"> • With or After Meals • Do Not Crush or Chew 	Take within 30 min of eating
emtricitabine/rilpivirine/ tenofovir	<ul style="list-style-type: none"> • With or After Meals 	Take with a meal to obtain optimal absorption of rilpivirine; see also <i>Drug Administration and Grapefruit</i>
emtricitabine/tenofovir	<ul style="list-style-type: none"> • With or Without Food 	
enalapril	<ul style="list-style-type: none"> • With or Without Food 	
enasidenib	<ul style="list-style-type: none"> • With or Without Food • Do Not Crush or Chew 	Swallow whole with a glass of water
entacapone	<ul style="list-style-type: none"> • With or Without Food • Do Not Crush or Chew 	
entecavir	<ul style="list-style-type: none"> • Empty Stomach 	Take at least 2 h before or after meals
enzalutamide	<ul style="list-style-type: none"> • With or Without Food • Do Not Crush or Chew 	Swallow liquid-filled capsule whole; antiandrogen
eplerenone	<ul style="list-style-type: none"> • With or Without Food 	See also <i>Drug Administration and Grapefruit</i>
eprosartan	<ul style="list-style-type: none"> • With or Without Food 	Be consistent
ergocalciferol	<ul style="list-style-type: none"> • With or Without Food 	
erlotinib	<ul style="list-style-type: none"> • Empty Stomach 	Take with a glass of water; see also <i>Drug Administration and Grapefruit</i>
ertugliflozin	<ul style="list-style-type: none"> • With or Without Food 	Take in the morning
ertugliflozin/metformin	<ul style="list-style-type: none"> • With or After Meals 	Food decreases GI side effects
ertugliflozin/sitagliptin	<ul style="list-style-type: none"> • With or Without Food 	Take in the morning
erythromycin (base)	<ul style="list-style-type: none"> • Empty Stomach Preferably • Do Not Crush or Chew 	If enteric-coated, do not crush or chew; see also <i>Drug Administration and Grapefruit</i>
erythromycin (stearate)	<ul style="list-style-type: none"> • Empty Stomach Preferably 	See also <i>Drug Administration and Grapefruit</i>
escitalopram	<ul style="list-style-type: none"> • With or Without Food 	
eslicarbazepine	<ul style="list-style-type: none"> • With or Without Food 	

Drug Name	Administration	Comments
esomeprazole (DR capsules)	<ul style="list-style-type: none"> • Before Meals • Do Not Crush or Chew 	Swallow whole with a glass of water before breakfast
esomeprazole (EC tablet)	<ul style="list-style-type: none"> • With or Without Food • Do Not Crush or Chew 	Preferable to take 30 min before meals; may disperse in 120 mL of noncarbonated water—no other liquids should be used as the enteric coating may be dissolved; stir until tablet disintegrates, drink the liquid with the pellets within 30 min, rinse the glass with 120 mL of water and drink; the pellets must not be crushed or chewed
esomeprazole (granules)	<ul style="list-style-type: none"> • With or Without Food 	Preferable to take 30 min before meals
estramustine	<ul style="list-style-type: none"> • Empty Stomach • Do Not Crush or Chew 	Swallow whole with a glass of water (cytotoxic); do not take with milk or calcium-containing drugs
estrogens	<ul style="list-style-type: none"> • With or Without Food 	Food decreases GI side effects; see also <i>Drug Administration and Grapefruit</i>
ethacrynic acid	<ul style="list-style-type: none"> • With or After Meals 	
ethambutol	<ul style="list-style-type: none"> • With or Without Food 	Food decreases GI side effects
ethinyl estradiol	<ul style="list-style-type: none"> • With or Without Food 	Food decreases GI side effects; see also <i>Drug Administration and Grapefruit</i>
ethopropazine	<ul style="list-style-type: none"> • With or Without Food 	
ethosuximide	<ul style="list-style-type: none"> • With or Without Food 	Food decreases GI side effects
etidronate	<ul style="list-style-type: none"> • Empty Stomach • Do Not Crush or Chew 	Take at least 2 h before or after a meal; swallow whole with a glass of water; avoid concomitant use of milk, antacids or drugs containing aluminum, calcium, magnesium or iron within 2 h of dosing
etodolac	<ul style="list-style-type: none"> • With or After Meals 	Food decreases GI side effects; take with a glass of water or milk
etoposide	<ul style="list-style-type: none"> • Empty Stomach • Do Not Crush or Chew 	Cytotoxic; see also <i>Drug Administration and Grapefruit</i>
etravirine	<ul style="list-style-type: none"> • With or After Meals • Do Not Crush or Chew 	Should be taken following meals; if patient cannot swallow tablets, disperse in 100 mL of cold water until a homogenous, white, cloudy suspension is obtained; drink immediately; rinse glass with water several times; swallow each rinse to ensure entire dose is ingested; see also <i>Drug Administration and Grapefruit</i>
everolimus	<ul style="list-style-type: none"> • Empty Stomach Preferably • Do Not Crush or Chew 	May be taken with a light fat-free meal; decreased absorption with a high-fat meal; see also <i>Drug Administration and Grapefruit</i>
exemestane	<ul style="list-style-type: none"> • With or After Meals 	
ezetimibe	<ul style="list-style-type: none"> • With or Without Food 	

Drug Name	Administration	Comments
famciclovir	<ul style="list-style-type: none"> • With or Without Food • Do Not Crush or Chew 	Take with a glass of water
famotidine	<ul style="list-style-type: none"> • With or Without Food 	Take 15 min before meals for prevention of acid-related symptoms associated with food/beverage consumption
fampridine	<ul style="list-style-type: none"> • With or Without Food • Do Not Crush or Chew 	
febuxostat	<ul style="list-style-type: none"> • With or Without Food 	
felodipine	<ul style="list-style-type: none"> • With or Without Food • Do Not Crush or Chew 	Avoid meals rich in carbohydrate or fat (significantly increase C_{max}); see also <i>Drug Administration and Grapefruit</i>
fenofibrate	<ul style="list-style-type: none"> • With or After Meals 	Food increases absorption
fenofibrate (microcoated)	<ul style="list-style-type: none"> • With or After Meals 	Take with largest meal of the day; food optimizes absorption
fenofibrate (micronized)	<ul style="list-style-type: none"> • With or After Meals 	Take with largest meal of the day; food optimizes absorption
fenofibrate (nanocrystals)	<ul style="list-style-type: none"> • With or Without Food 	
fentanyl citrate (sublingual)	<ul style="list-style-type: none"> • Do Not Crush or Chew 	Do not eat or drink while tablet dissolving; see also <i>Drug Administration and Grapefruit</i>
ferrous ascorbate	<ul style="list-style-type: none"> • With or Without Food 	
fesoterodine	<ul style="list-style-type: none"> • With or Without Food • Do Not Crush or Chew 	See also <i>Drug Administration and Grapefruit</i>
fexofenadine	<ul style="list-style-type: none"> • With or Without Food 	See also <i>Drug Administration and Grapefruit</i>
fexofenadine/ pseudoephedrine	<ul style="list-style-type: none"> • Empty Stomach Preferably • Do Not Crush or Chew 	High-fat meal decreases absorption; see also <i>Drug Administration and Grapefruit</i>
fidaxomicin	<ul style="list-style-type: none"> • With or Without Food 	
finasteride	<ul style="list-style-type: none"> • With or Without Food 	Crushed or broken tablets should not be handled by women who are or may become pregnant
ingolimod	<ul style="list-style-type: none"> • With or Without Food 	
flecainide	<ul style="list-style-type: none"> • With or Without Food 	
flibanserin	<ul style="list-style-type: none"> • With or Without Food 	Take at bedtime; do not take with alcohol due to risk of hypotension and syncope; see also <i>Drug Administration and Grapefruit</i>

Drug Name	Administration	Comments
fluconazole	<ul style="list-style-type: none"> • With or Without Food 	
fludarabine	<ul style="list-style-type: none"> • With or Without Food • Do Not Crush or Chew 	Cytotoxic
fludrocortisone	<ul style="list-style-type: none"> • With or After Meals 	
flunarizine	<ul style="list-style-type: none"> • With or Without Food 	
fluoxetine	<ul style="list-style-type: none"> • With or Without Food 	
flupentixol	<ul style="list-style-type: none"> • With or Without Food 	
fluphenazine	<ul style="list-style-type: none"> • With or Without Food 	
flurazepam	<ul style="list-style-type: none"> • With or Without Food 	
flurbiprofen (regular)	<ul style="list-style-type: none"> • With or After Meals 	Food decreases GI side effects; take with a glass of water or milk
flutamide	<ul style="list-style-type: none"> • With or Without Food 	
fluvastatin (regular)	<ul style="list-style-type: none"> • With or Without Food • Do Not Crush or Chew 	Be consistent; can be taken at bedtime if once daily
fluvastatin (XL)	<ul style="list-style-type: none"> • With or Without Food • Do Not Crush or Chew 	Be consistent; swallow whole with a glass of water
fluvoxamine	<ul style="list-style-type: none"> • With or Without Food • Do Not Crush or Chew 	Take with a glass of water; see also <i>Drug Administration and Grapefruit</i>
folic acid	<ul style="list-style-type: none"> • With or Without Food 	
fosamprenavir (suspension)	<ul style="list-style-type: none"> • Empty Stomach 	
fosamprenavir (tablet)	<ul style="list-style-type: none"> • With or Without Food 	
fosfomycin	<ul style="list-style-type: none"> • With or Without Food 	Dissolve in 125 mL cold water; take immediately
fosinopril	<ul style="list-style-type: none"> • With or Without Food 	
frovatriptan	<ul style="list-style-type: none"> • With or Without Food 	
furosemide	<ul style="list-style-type: none"> • With or Without Food 	Be consistent

Drug Name	Administration	Comments
gabapentin	<ul style="list-style-type: none"> • With or Without Food 	
galantamine (ER)	<ul style="list-style-type: none"> • With or After Meals • Do Not Crush or Chew 	Preferably taken with morning meal
gefitinib	<ul style="list-style-type: none"> • With or Without Food 	
gemfibrozil	<ul style="list-style-type: none"> • Before Meals 	Take 30 min before morning and evening meal
glecaprevir/pibrentasvir	<ul style="list-style-type: none"> • With or After Meals • Do Not Crush or Chew 	
gliclazide (regular)	<ul style="list-style-type: none"> • With or After Meals 	
gliclazide (MR)	<ul style="list-style-type: none"> • With or After Meals • Do Not Crush or Chew 	Take with breakfast; 60 mg tablets may be split in half but 30 mg tablets should not be split
glimepiride	<ul style="list-style-type: none"> • With or After Meals 	Take with breakfast or first main meal
glyburide	<ul style="list-style-type: none"> • With or After Meals 	Take with breakfast or first main meal
granisetron	<ul style="list-style-type: none"> • With or Without Food 	
grazoprevir/elbasvir	<ul style="list-style-type: none"> • With or Without Food 	See also <i>Drug Administration and Grapefruit</i>
guaifenesin	<ul style="list-style-type: none"> • With or Without Food 	
guanfacine (ER tablet)	<ul style="list-style-type: none"> • With or Without Food • Do Not Crush or Chew 	Do not take with a high-fat meal (increased absorption)
haloperidol	<ul style="list-style-type: none"> • With or Without Food 	
hydralazine	<ul style="list-style-type: none"> • With or Without Food 	
hydrochlorothiazide	<ul style="list-style-type: none"> • With or Without Food 	
hydrocodone	<ul style="list-style-type: none"> • With or Without Food 	
hydrocodone/phenyltoloxamine	<ul style="list-style-type: none"> • With or Without Food 	Do not mix suspension with other liquids, as sustained-release properties may be altered
hydrocortisone	<ul style="list-style-type: none"> • With or After Meals 	Food decreases GI side effects
hydromorphone (regular)	<ul style="list-style-type: none"> • With or Without Food 	

Drug Name	Administration	Comments
hydromorphone (SR)	<ul style="list-style-type: none"> • With or Without Food • Do Not Crush or Chew 	May sprinkle contents of capsule onto soft food but do not chew the beads
hydroxychloroquine	<ul style="list-style-type: none"> • With or After Meals 	Food decreases GI side effects
hydroxyurea	<ul style="list-style-type: none"> • With or Without Food • Do Not Crush or Chew 	Take with a glass of water; may empty contents of capsule into a glass of water and take immediately; do not allow powder onto hands and do not inhale powder; cytotoxic
hydroxyzine	<ul style="list-style-type: none"> • With or Without Food 	
ibrutinib	<ul style="list-style-type: none"> • With or Without Food • Do Not Crush or Chew 	Do not open capsules; see also <i>Drug Administration and Grapefruit</i>
ibuprofen	<ul style="list-style-type: none"> • With or After Meals 	Food decreases GI side effects; take with a glass of water or milk
idelalisib	<ul style="list-style-type: none"> • With or Without Food 	
imatinib	<ul style="list-style-type: none"> • With or After Meals 	Food decreases GI side effects; take with a glass of water; if patient cannot swallow tablets, disperse tablet in a glass of water or apple juice; see also <i>Drug Administration and Grapefruit</i>
imipramine	<ul style="list-style-type: none"> • With or Without Food 	
indapamide	<ul style="list-style-type: none"> • With or Without Food 	
indomethacin	<ul style="list-style-type: none"> • With or After Meals 	Food decreases GI side effects; take with a glass of water or milk
irbesartan	<ul style="list-style-type: none"> • With or Without Food 	Be consistent
iron salts (capsule/tablet)	<ul style="list-style-type: none"> • Empty Stomach Preferably • Do Not Crush or Chew 	Food, especially dairy products, coffee and tea, decreases absorption and GI side effects
iron salts (liquid)	<ul style="list-style-type: none"> • Empty Stomach Preferably 	Dilute dose with water or juice (not milk)
isavuconazole	<ul style="list-style-type: none"> • With or Without Food • Do Not Crush or Chew 	Swallow whole
isoniazid	<ul style="list-style-type: none"> • Empty Stomach Preferably 	Food decreases absorption
isosorbide dinitrate (regular)	<ul style="list-style-type: none"> • Empty Stomach 	Take with a glass of water

Drug Name	Administration	Comments
isosorbide dinitrate (SL)	<ul style="list-style-type: none"> • With or Without Food • Do Not Crush or Chew 	Do not eat or drink while tablet dissolving
isosorbide dinitrate (SR)	<ul style="list-style-type: none"> • With or Without Food • Do Not Crush or Chew 	
isosorbide mononitrate	<ul style="list-style-type: none"> • With or Without Food • Do Not Crush or Chew 	Take with a glass of water; may break tablet in half along the scored line
isotretinoin	<ul style="list-style-type: none"> • With or After Meals • Do Not Crush or Chew 	Food increases bioavailability
itraconazole (capsule)	<ul style="list-style-type: none"> • With or After Meals • Do Not Crush or Chew 	Take with cola beverage if achlorhydria or on acid secretion suppressor; see also <i>Drug Administration and Grapefruit</i>
itraconazole (liquid)	<ul style="list-style-type: none"> • Empty Stomach 	Swish and swallow; do not rinse after swallowing; see also <i>Drug Administration and Grapefruit</i>
ivabradine	<ul style="list-style-type: none"> • With or After Meals 	See also <i>Drug Administration and Grapefruit</i>
ivacaftor	<ul style="list-style-type: none"> • With or After Meals 	Take with fat-containing food to enhance absorption; see also <i>Drug Administration and Grapefruit</i>
ivacaftor/lumacaftor	<ul style="list-style-type: none"> • With or After Meals 	Take with fat-containing food to enhance absorption; see also <i>Drug Administration and Grapefruit</i>
ivermectin	<ul style="list-style-type: none"> • Empty Stomach 	Take with a glass of water
ixazomib	<ul style="list-style-type: none"> • Empty Stomach • Do Not Crush or Chew 	Be consistent; swallow whole with a glass of water as direct contact with capsule contents may be harmful (by inhalation, ingestion or skin absorption)
ketoconazole	<ul style="list-style-type: none"> • With or After Meals 	Take with cola beverage if achlorhydria or on acid secretion suppressor
ketoprofen (EC or SR)	<ul style="list-style-type: none"> • Empty Stomach Preferably • Do Not Crush or Chew 	Take with a glass of water
ketoprofen (regular)	<ul style="list-style-type: none"> • With or After Meals 	Food decreases GI side effects; take with a glass of water
ketorolac	<ul style="list-style-type: none"> • With or After Meals 	Food decreases GI side effects; take with a glass of water or milk; high-fat meal decreases rate but not extent of absorption
ketotifen (syrup)	<ul style="list-style-type: none"> • With or Without Food 	
ketotifen (tablet)	<ul style="list-style-type: none"> • With or Without Food 	
labetalol	<ul style="list-style-type: none"> • With or After Meals 	Food increases bioavailability

Drug Name	Administration	Comments
lacosamide	<ul style="list-style-type: none"> • With or Without Food 	
lactase (caplet)	<ul style="list-style-type: none"> • With or After Meals • Do Not Crush or Chew 	Take immediately before meals that contain lactose
lactase (drops)	<ul style="list-style-type: none"> • With or Without Food 	Add to milk
lactase (tablet)	<ul style="list-style-type: none"> • With or After Meals 	Take immediately before meals that contain lactose; can be chewed
<i>Lactobacillus rhamnosus</i>	<ul style="list-style-type: none"> • With or After Meals 	Preferably taken with milk or lactose; may add contents of capsule to soft food if unable to swallow
lactulose	<ul style="list-style-type: none"> • With or Without Food 	Take with a glass of water; may be diluted in water, juice or milk
lamivudine (liquid)	<ul style="list-style-type: none"> • With or Without Food 	
lamivudine (tablet)	<ul style="list-style-type: none"> • With or Without Food • Do Not Crush or Chew 	Take with a glass of water
lamivudine/zidovudine	<ul style="list-style-type: none"> • With or Without Food • Do Not Crush or Chew 	
lamotrigine (chewable/dispersible tablet)	<ul style="list-style-type: none"> • With or Without Food 	Take with a glass of water; may be chewed, dissolved in liquid or swallowed whole; dosing is based on whole tablets; do not divide tablets
lamotrigine (tablet)	<ul style="list-style-type: none"> • With or Without Food 	
lansoprazole (DR capsule)	<ul style="list-style-type: none"> • Before Meals • Do Not Crush or Chew 	Take 30 min before breakfast and/or meals; food decreases absorption. Capsules can be opened and the intact granules can be sprinkled onto a tablespoon of applesauce and swallowed immediately; do not chew or crush granules; granules can also be mixed in juice for nasogastric administration (stable for up to 30 min)
lansoprazole (orally disintegrating tablet)	<ul style="list-style-type: none"> • Before Meals • Do Not Crush or Chew 	Do not swallow intact tablets; place tablet on tongue and swallow when all disintegrated; do not chew granules
lanthanum carbonate	<ul style="list-style-type: none"> • With or After Meals 	Do not swallow intact tablets; chew completely before swallowing; may crush tablets
lapatinib	<ul style="list-style-type: none"> • Empty Stomach 	Take at least 1 h before or after a low-fat meal; see also <i>Drug Administration and Grapefruit</i>
ledipasvir/sofosbuvir	<ul style="list-style-type: none"> • With or Without Food 	
leflunomide	<ul style="list-style-type: none"> • With or Without Food • Do Not Crush or Chew 	Be consistent; take with a glass of water

Drug Name	Administration	Comments
letermovir	<ul style="list-style-type: none"> • With or Without Food • Do Not Crush or Chew 	
letrozole	<ul style="list-style-type: none"> • With or Without Food 	
levetiracetam	<ul style="list-style-type: none"> • With or Without Food 	
levocarnitine (liquid)	<ul style="list-style-type: none"> • With or After Meals 	May mix into drinks or other liquid foods; consume slowly to maximize tolerance
levocarnitine (tablet)	<ul style="list-style-type: none"> • With or Without Food 	
levodopa/benserazide	<ul style="list-style-type: none"> • With or Without Food • Do Not Crush or Chew 	Be consistent; food decreases GI side effects; protein-rich foods may decrease levodopa absorption
levodopa/carbidopa (CR)	<ul style="list-style-type: none"> • With or Without Food • Do Not Crush or Chew 	200/50 strength tablets may be halved; food decreases GI side effects; protein-rich foods may decrease levodopa absorption
levodopa/carbidopa (regular)	<ul style="list-style-type: none"> • With or Without Food 	Be consistent; food decreases GI side effects; protein-rich foods may decrease levodopa absorption
levodopa/carbidopa/entacapone	<ul style="list-style-type: none"> • With or Without Food • Do Not Crush or Chew 	Be consistent; food decreases GI side effects; protein-rich foods may decrease levodopa absorption
levofloxacin	<ul style="list-style-type: none"> • With or Without Food 	Take with a glass of water
levomilnacipran	<ul style="list-style-type: none"> • With or Without Food • Do Not Crush or Chew 	
levonorgestrel	<ul style="list-style-type: none"> • With or Without Food 	
levothyroxine	<ul style="list-style-type: none"> • With or Without Food 	Be consistent; can be crushed and suspended in water or mixed with soft food, e.g., applesauce; however, do not use foods with a large amount of soybean, fibre or iron for administration
linaclotide	<ul style="list-style-type: none"> • Empty Stomach • Do Not Crush or Chew 	Swallow whole at least 30 min before the first meal of the day
linagliptin	<ul style="list-style-type: none"> • With or Without Food 	
linagliptin/metformin	<ul style="list-style-type: none"> • With or After Meals 	Food decreases GI side effects
linezolid	<ul style="list-style-type: none"> • With or Without Food 	Avoid foods or beverages with high tyramine content
liothyronine	<ul style="list-style-type: none"> • With or Without Food 	

Drug Name	Administration	Comments
lisdexamfetamine	<ul style="list-style-type: none"> With or Without Food 	May dissolve contents of capsule in a glass of water and consume immediately or sprinkle contents of capsule onto soft food, e.g., applesauce
lisinopril	<ul style="list-style-type: none"> With or Without Food 	
lithium salts (regular)	<ul style="list-style-type: none"> With or Without Food 	Food decreases GI side effects
lithium salts (SR)	<ul style="list-style-type: none"> With or Without Food Do Not Crush or Chew 	Tablet may be broken in half
lomustine	<ul style="list-style-type: none"> With or Without Food Do Not Crush or Chew 	As a single dose—nausea may be minimized if given at bedtime on an empty stomach; cytotoxic
loperamide	<ul style="list-style-type: none"> With or Without Food 	
lopinavir/ritonavir (solution)	<ul style="list-style-type: none"> With or After Meals 	Food enhances bioavailability
lopinavir/ritonavir (tablet)	<ul style="list-style-type: none"> With or Without Food Do Not Crush or Chew 	
loratadine (syrup, regular tablet)	<ul style="list-style-type: none"> With or Without Food 	
loratadine (rapid-dissolve tablet)	<ul style="list-style-type: none"> Empty Stomach 	May be taken without water
loratadine/pseudoephedrine	<ul style="list-style-type: none"> With or Without Food Do Not Crush or Chew 	
lorazepam	<ul style="list-style-type: none"> With or Without Food 	
lorlatinib	<ul style="list-style-type: none"> With or Without Food Do Not Crush or Chew 	Swallow whole; be consistent with timing; see also <i>Drug Administration and Grapefruit</i>
losartan	<ul style="list-style-type: none"> With or Without Food 	Be consistent; see also <i>Drug Administration and Grapefruit</i>
lovastatin	<ul style="list-style-type: none"> With or After Meals 	Take with evening meal; see also <i>Drug Administration and Grapefruit</i>
loxapine	<ul style="list-style-type: none"> With or Without Food 	
L-tryptophan	<ul style="list-style-type: none"> With or After Meals 	Food decreases GI side effects; best taken with protein-low, carbohydrate-rich snack or meal
lurasidone	<ul style="list-style-type: none"> With or After Meals Do Not Crush or Chew 	Take with food (≥350 calories, independent of fat content); see also <i>Drug Administration and Grapefruit</i>

Drug Name	Administration	Comments
macitentan	<ul style="list-style-type: none"> • With or Without Food 	
magnesium salts	<ul style="list-style-type: none"> • With or After Meals 	Take with a glass of water
maraviroc	<ul style="list-style-type: none"> • With or Without Food 	See also <i>Drug Administration and Grapefruit</i>
mebendazole	<ul style="list-style-type: none"> • With or Without Food 	Tablets may be chewed, swallowed whole or crushed and mixed with food
medroxyprogesterone	<ul style="list-style-type: none"> • With or Without Food 	
mefenamic acid	<ul style="list-style-type: none"> • With or After Meals 	Food decreases GI side effects; take with a glass of water or milk
mefloquine	<ul style="list-style-type: none"> • With or After Meals 	Food increases absorption; take with a glass of water; do not chew; may crush and suspend in a small amount of water, milk or other beverage
megestrol	<ul style="list-style-type: none"> • With or Without Food 	
meloxicam	<ul style="list-style-type: none"> • With or Without Food 	
melphalan	<ul style="list-style-type: none"> • With or Without Food • Do Not Crush or Chew 	Cytotoxic
memantine	<ul style="list-style-type: none"> • With or Without Food 	
mepiridine (see pethidine)		
mercaptopurine	<ul style="list-style-type: none"> • Empty Stomach Preferably • Do Not Crush or Chew 	Cytotoxic
metformin (regular)	<ul style="list-style-type: none"> • With or After Meals 	Food decreases GI side effects
metformin (ER)	<ul style="list-style-type: none"> • With or After Meals • Do Not Crush or Chew 	Must be taken with food—optimizes absorption and ensures complete release of metformin
methadone	<ul style="list-style-type: none"> • With or Without Food 	See also <i>Drug Administration and Grapefruit</i>
methazolamide	<ul style="list-style-type: none"> • With or Without Food 	Food decreases GI side effects
methenamine	<ul style="list-style-type: none"> • With or After Meals 	Food decreases GI side effects; avoid excessive intake of alkalinizing foods, e.g., milk products; take with a glass of water
methimazole	<ul style="list-style-type: none"> • With or Without Food 	
methocarbamol	<ul style="list-style-type: none"> • With or Without Food 	

Drug Name	Administration	Comments
methotrexate	<ul style="list-style-type: none"> • With or Without Food • Do Not Crush or Chew 	Cytotoxic
methotrimeprazine	<ul style="list-style-type: none"> • With or Without Food 	
methyldopa	<ul style="list-style-type: none"> • With or Without Food 	
methylphenidate (CR capsule)	<ul style="list-style-type: none"> • With or After Meals • Do Not Crush or Chew 	May be sprinkled on soft food; do not crush or chew pellets
methylphenidate (regular)	<ul style="list-style-type: none"> • With or After Meals 	Food increases rate of absorption and reduces GI side effects
methylphenidate (SR or ER tablet)	<ul style="list-style-type: none"> • With or After Meals • Do Not Crush or Chew 	
methylprednisolone	<ul style="list-style-type: none"> • With or After Meals 	See also <i>Drug Administration and Grapefruit</i>
metoclopramide	<ul style="list-style-type: none"> • Before Meals 	
metolazone	<ul style="list-style-type: none"> • With or Without Food 	
metoprolol (regular)	<ul style="list-style-type: none"> • With or Without Food 	Be consistent; food may increase bioavailability
metoprolol (SR)	<ul style="list-style-type: none"> • With or Without Food • Do Not Crush or Chew 	
metronidazole (ER)	<ul style="list-style-type: none"> • Empty Stomach • Do Not Crush or Chew 	Food increases rate of absorption
metronidazole (regular)	<ul style="list-style-type: none"> • With or Without Food 	Food decreases GI side effects
mexiletine	<ul style="list-style-type: none"> • With or After Meals 	
midodrine	<ul style="list-style-type: none"> • With or Without Food 	
midostaurin	<ul style="list-style-type: none"> • With or After Meals • Do Not Crush or Chew 	Swallow whole with a glass of water; food decreases GI side effects; see also <i>Drug Administration and Grapefruit</i>
mifepristone	<ul style="list-style-type: none"> • With or Without Food 	For general use: food decreases GI side effects For medical abortion: swallow with water then, 24–48 h later, take misoprostol; see also <i>Drug Administration and Grapefruit</i>
migalastat	<ul style="list-style-type: none"> • Empty Stomach • Do Not Crush or Chew 	Do not take 2 h before or after food

Drug Name	Administration	Comments
miglustat	<ul style="list-style-type: none"> • With or Without Food • Do Not Crush or Chew 	Food decreases rate of absorption but no effect on extent of absorption
mineral oil	<ul style="list-style-type: none"> • Empty Stomach 	Take 2 h before or after meals as it may interfere with digestion and absorption of nutrients and vitamins
minocycline	<ul style="list-style-type: none"> • With or Without Food 	Avoid concomitant use of antacids or drugs containing aluminum, calcium, magnesium or iron
minoxidil	<ul style="list-style-type: none"> • With or Without Food 	
mirabegron (ER)	<ul style="list-style-type: none"> • With or Without Food • Do Not Crush or Chew 	See also <i>Drug Administration and Grapefruit</i>
mirtazapine (RD tablet)	<ul style="list-style-type: none"> • With or Without Food • Do Not Crush or Chew 	Rapidly disintegrates on tongue; swallow with saliva; do not split tablets
mirtazapine (tablet)	<ul style="list-style-type: none"> • With or Without Food • Do Not Crush or Chew 	Take with a glass of water
misoprostol	<ul style="list-style-type: none"> • With or Without Food 	For medical abortion: 24–48 h after taking mifepristone, place misoprostol tablets between the cheek and gums; keep in place for 30 min; swallow any remaining fragments with water
moclobemide	<ul style="list-style-type: none"> • With or After Meals 	No MAOI dietary restrictions as long as taken after meals
modafinil	<ul style="list-style-type: none"> • With or Without Food 	
montelukast sodium (chewables)	<ul style="list-style-type: none"> • With or Without Food 	
montelukast sodium (granules)	<ul style="list-style-type: none"> • With or Without Food 	Can be taken directly in the mouth; may mix granules with a spoonful of cold or room temperature food, e.g., applesauce
montelukast sodium (tablet)	<ul style="list-style-type: none"> • With or Without Food 	
morphine (IR capsules)	<ul style="list-style-type: none"> • With or Without Food • Do Not Crush or Chew 	If capsules cannot be swallowed whole, mix contents of capsule with soft food or liquids; do not crush or chew capsules as this may cause dangerous adverse events (including death)
morphine (IR tablets)	<ul style="list-style-type: none"> • With or Without Food • Do Not Crush or Chew 	
morphine (SR)	<ul style="list-style-type: none"> • With or Without Food • Do Not Crush or Chew 	Take with a glass of water; only 200 mg SR tablet (MS Contin) may be halved along scored line; may open SR capsule and sprinkle contents onto soft food, e.g., applesauce; do not chew the pellets
moxifloxacin	<ul style="list-style-type: none"> • With or Without Food • Do Not Crush or Chew 	Take with a glass of water

Drug Name	Administration	Comments
mycophenolate (capsule/tablet)	<ul style="list-style-type: none"> • Empty Stomach • Do Not Crush or Chew 	Swallow whole; cytotoxic
mycophenolate (liquid)	<ul style="list-style-type: none"> • Empty Stomach 	Dispense directly into mouth; do not mix with any other liquid before taking
nabilone	<ul style="list-style-type: none"> • With or Without Food 	
nabumetone	<ul style="list-style-type: none"> • With or Without Food • Do Not Crush or Chew 	Food decreases GI side effects; take with a glass of water or milk
nadolol	<ul style="list-style-type: none"> • With or Without Food 	
naloxegol	<ul style="list-style-type: none"> • Empty Stomach • Do Not Crush or Chew 	Take 1 h before or 2 h after the first meal of the day; see also <i>Drug Administration and Grapefruit</i>
naltrexone	<ul style="list-style-type: none"> • With or Without Food 	
naltrexone/bupropion	<ul style="list-style-type: none"> • With or After Meals • Do Not Crush or Chew 	Take with food; however, <i>do not</i> take with a high-fat meal as this may increase the risk of seizures
naproxen (regular)	<ul style="list-style-type: none"> • With or After Meals 	Food decreases GI side effects; take with a glass of water or milk
naproxen (SR)	<ul style="list-style-type: none"> • With or After Meals • Do Not Crush or Chew 	Take with a glass of water or milk
naproxen/diphenhydramine	<ul style="list-style-type: none"> • With or Without Food 	Food delays absorption slightly but may prevent gastric upset
naproxen/esomeprazole	<ul style="list-style-type: none"> • Before Meals • Do Not Crush or Chew 	Take 30 min before meals
naratriptan	<ul style="list-style-type: none"> • With or Without Food • Do Not Crush or Chew 	Take with a glass of water
nebivolol	<ul style="list-style-type: none"> • With or Without Food 	
nelfinavir	<ul style="list-style-type: none"> • With or After Meals 	Food increases absorption; not recommended with acidic food or drink as a bitter taste may develop
neostigmine	<ul style="list-style-type: none"> • With or Without Food 	
netupitant/palonosetron	<ul style="list-style-type: none"> • With or Without Food • Do Not Crush or Chew 	See also <i>Drug Administration and Grapefruit</i>
nevirapine	<ul style="list-style-type: none"> • With or Without Food 	

Drug Name	Administration	Comments
niacin (ER)	<ul style="list-style-type: none"> • With or After Meals • Do Not Crush or Chew 	Swallow whole after a low-fat snack at bedtime
niacin (regular)	<ul style="list-style-type: none"> • With or Without Food 	Take with meals as antihyperlipidemic; food decreases GI side effects
nicoumalone (see acenocoumarol)		
nifedipine (regular)	<ul style="list-style-type: none"> • With or Without Food 	See also <i>Drug Administration and Grapefruit</i>
nifedipine (XL)	<ul style="list-style-type: none"> • With or Without Food • Do Not Crush or Chew 	See also <i>Drug Administration and Grapefruit</i>
nilotinib	<ul style="list-style-type: none"> • Empty Stomach • Do Not Crush or Chew 	Swallow whole with a glass of water; must not be taken with food; see also <i>Drug Administration and Grapefruit</i>
nilutamide	<ul style="list-style-type: none"> • Before Meals 	Before breakfast
nimodipine	<ul style="list-style-type: none"> • With or Without Food • Do Not Crush or Chew 	See also <i>Drug Administration and Grapefruit</i>
nintedanib	<ul style="list-style-type: none"> • With or After Meals • Do Not Crush or Chew 	Swallow whole with a glass of water; see also <i>Drug Administration and Grapefruit</i>
nitrazepam	<ul style="list-style-type: none"> • With or Without Food 	
nitrofurantoin	<ul style="list-style-type: none"> • With or After Meals 	Food increases bioavailability and decreases GI side effects
nitrofurantoin monohydrate (macrocrystals)	<ul style="list-style-type: none"> • With or After Meals • Do Not Crush or Chew 	Slow-release formulation; do not open capsules
nitroglycerin	<ul style="list-style-type: none"> • With or Without Food • Do Not Crush or Chew 	Sublingual; do not crush, chew or swallow
nizatidine	<ul style="list-style-type: none"> • With or Without Food 	
norethindrone	<ul style="list-style-type: none"> • With or After Meals 	Food decreases GI side effects
norfloxacin	<ul style="list-style-type: none"> • Empty Stomach 	Take with a glass of water; do not take with milk; avoid excessive caffeine intake
normethadone/ p-hydroxyephedrine	<ul style="list-style-type: none"> • With or After Meals 	May be mixed with sugar or in any beverage; preferably after breakfast and at bedtime
nortriptyline	<ul style="list-style-type: none"> • With or Without Food 	

Drug Name	Administration	Comments
nystatin	<ul style="list-style-type: none"> • With or Without Food 	Sparingly absorbed
obeticholic acid	<ul style="list-style-type: none"> • Before Meals 	Take 30 min before breakfast
olanzapine (orally disintegrating tablet)	<ul style="list-style-type: none"> • With or Without Food 	May stir into 125 mL of water, milk, coffee, orange juice or apple juice; consume immediately
olanzapine (tablet)	<ul style="list-style-type: none"> • With or Without Food • Do Not Crush or Chew 	Take with a glass of water
olaparib	<ul style="list-style-type: none"> • Empty Stomach • Do Not Crush or Chew 	
olmesartan	<ul style="list-style-type: none"> • With or Without Food 	
olsalazine	<ul style="list-style-type: none"> • With or After Meals 	Food decreases GI side effects
ombitasvir/paritaprevir/ritonavir	<ul style="list-style-type: none"> • With or After Meals • Do Not Crush or Chew 	
omeprazole (capsule)	<ul style="list-style-type: none"> • With or Without Food • Do Not Crush or Chew 	Preferable to take 30 min before meals
omeprazole (tablet)	<ul style="list-style-type: none"> • With or Without Food • Do Not Crush or Chew 	Preferable to take 30 min before meals
ondansetron	<ul style="list-style-type: none"> • With or Without Food 	
orciprenaline	<ul style="list-style-type: none"> • With or Without Food 	
orlistat	<ul style="list-style-type: none"> • With or After Meals • Do Not Crush or Chew 	Take up to 1 h after a meal with a glass of water; if meal does not contain fat, dose may be omitted
orphenadrine	<ul style="list-style-type: none"> • With or Without Food 	
oseltamivir	<ul style="list-style-type: none"> • With or Without Food 	Food decreases GI side effects
osimertinib	<ul style="list-style-type: none"> • With or Without Food • Do Not Crush or Chew 	Take at same time each day with water; see also <i>Drug Administration and Grapefruit</i>
oxazepam	<ul style="list-style-type: none"> • With or Without Food 	
oxcarbazepine	<ul style="list-style-type: none"> • With or Without Food 	

Drug Name	Administration	Comments
oxtriphylline (liquid/regular)	<ul style="list-style-type: none"> • Empty Stomach Preferably 	Take with a glass of water
oxybutynin (regular)	<ul style="list-style-type: none"> • With or Without Food 	
oxybutynin (XL)	<ul style="list-style-type: none"> • With or Without Food • Do Not Crush or Chew 	Take with a glass of water
oxycodone (regular)	<ul style="list-style-type: none"> • With or Without Food 	See also <i>Drug Administration and Grapefruit</i>
oxycodone (SR)	<ul style="list-style-type: none"> • With or Without Food • Do Not Crush or Chew 	See also <i>Drug Administration and Grapefruit</i>
oxycodone/naloxone	<ul style="list-style-type: none"> • With or Without Food • Do Not Crush or Chew 	See also <i>Drug Administration and Grapefruit</i>
palbociclib	<ul style="list-style-type: none"> • With or After Meals • Do Not Crush or Chew 	Take at same time each day; see also <i>Drug Administration and Grapefruit</i>
paliperidone (ER)	<ul style="list-style-type: none"> • With or Without Food • Do Not Crush or Chew 	
palonosetron	<ul style="list-style-type: none"> • With or Without Food 	
pancreatic enzymes (capsule with EC granules)	<ul style="list-style-type: none"> • With or After Meals • Do Not Crush or Chew 	Swallow whole with a glass of water with each meal or snack; may open capsule and sprinkle onto soft food, e.g., applesauce; do not chew granules; take immediately after sprinkling
pancreatic enzymes (regular tablet/capsule)	<ul style="list-style-type: none"> • With or After Meals • Do Not Crush or Chew 	Take with each meal or snack; irritating to mucosae and skin
pantoprazole	<ul style="list-style-type: none"> • With or Without Food • Do Not Crush or Chew 	Preferable to take 30 min before meals
paromomycin	<ul style="list-style-type: none"> • With or After Meals 	
paroxetine (CR)	<ul style="list-style-type: none"> • With or Without Food • Do Not Crush or Chew 	
paroxetine (regular)	<ul style="list-style-type: none"> • With or Without Food • Do Not Crush or Chew 	

Drug Name	Administration	Comments
pazopanib	<ul style="list-style-type: none"> • Empty Stomach • Do Not Crush or Chew 	See also <i>Drug Administration and Grapefruit</i>
penicillamine	<ul style="list-style-type: none"> • Empty Stomach 	Take with a glass of water; do not take with milk
penicillin V	<ul style="list-style-type: none"> • With or Without Food 	
pentazocine	<ul style="list-style-type: none"> • With or After Meals 	
pentosan polysulfate	<ul style="list-style-type: none"> • Empty Stomach 	Take with a glass of water
pentoxifylline	<ul style="list-style-type: none"> • With or After Meals • Do Not Crush or Chew 	
pepsin	<ul style="list-style-type: none"> • With or After Meals 	
perampanel	<ul style="list-style-type: none"> • With or Without Food 	
perindopril	<ul style="list-style-type: none"> • Empty Stomach 	
perindopril/amlodipine	<ul style="list-style-type: none"> • Empty Stomach 	Take in morning if possible
perphenazine	<ul style="list-style-type: none"> • With or Without Food 	
pethidine	<ul style="list-style-type: none"> • With or Without Food 	
phenelzine	<ul style="list-style-type: none"> • With or Without Food 	Follow MAOI diet; available at medicationinfoSHARE.com/gallery/mao-inhibitors-food-drug-interactions
phenobarbital	<ul style="list-style-type: none"> • With or Without Food 	Absorption faster on an empty stomach
phenytoin	<ul style="list-style-type: none"> • With or After Meals 	Food decreases GI side effects; do not administer within 2 h of an enteral feeding preparation (decreased bioavailability)
phenytoin (ER capsule)	<ul style="list-style-type: none"> • With or After Meals • Do Not Crush or Chew 	
phosphates solution	<ul style="list-style-type: none"> • Empty Stomach 	May take up to 30 min before a meal; dilute dose in 120 mL water and follow dose with a glass of water
pilocarpine	<ul style="list-style-type: none"> • With or Without Food 	
pimozide	<ul style="list-style-type: none"> • With or Without Food 	See also <i>Drug Administration and Grapefruit</i>
pinaverium	<ul style="list-style-type: none"> • With or After Meals • Do Not Crush or Chew 	Swallow whole with a glass of water to avoid esophageal irritation; not to be taken in the lying position or just before bed

Drug Name	Administration	Comments
pindolol	<ul style="list-style-type: none"> • With or After Meals 	
pioglitazone	<ul style="list-style-type: none"> • With or Without Food 	
pirfenidone	<ul style="list-style-type: none"> • With or After Meals • Do Not Crush or Chew 	Food reduces incidence of dizziness and nausea; see also <i>Drug Administration and Grapefruit</i>
piroxicam	<ul style="list-style-type: none"> • With or After Meals 	Food decreases GI side effects; take with a glass of water or milk
pizotifen	<ul style="list-style-type: none"> • With or Without Food 	
pomalidomide	<ul style="list-style-type: none"> • With or Without Food • Do Not Crush or Chew 	Capsules should not be opened; cytotoxic; teratogenic
ponatinib	<ul style="list-style-type: none"> • With or Without Food • Do Not Crush or Chew 	
posaconazole	<ul style="list-style-type: none"> • With or After Meals 	Oral suspension; administer with food or nutritional supplement (if cannot tolerate food) to enhance oral absorption
potassium salts (liquid)	<ul style="list-style-type: none"> • With or After Meals 	Potassium chloride—dilute dose with water, citrus fruit juice or citrated soft drink
potassium salts (regular)	<ul style="list-style-type: none"> • With or After Meals 	Food decreases GI side effects
potassium salts (SR capsule)	<ul style="list-style-type: none"> • With or After Meals • Do Not Crush or Chew 	Swallow whole with a glass of water; may sprinkle contents of capsule onto soft food, e.g., applesauce, and swallow without chewing
potassium salts (SR tablet)	<ul style="list-style-type: none"> • With or After Meals • Do Not Crush or Chew 	Take with a glass of water; may break tablet in half for K-Dur; may also disintegrate tablet in half glass of water, stir and swallow immediately, rinse any residue on glass with more water and swallow
pramipexole	<ul style="list-style-type: none"> • With or Without Food 	Food decreases GI side effects
prasugrel	<ul style="list-style-type: none"> • With or Without Food 	See also <i>Drug Administration and Grapefruit</i>
pravastatin	<ul style="list-style-type: none"> • With or Without Food 	
praziquantel	<ul style="list-style-type: none"> • With or After Meals • Do Not Crush or Chew 	Take with a glass of water; tablet may be halved; see also <i>Drug Administration and Grapefruit</i>
prazosin	<ul style="list-style-type: none"> • With or Without Food 	
prednisone	<ul style="list-style-type: none"> • With or After Meals 	Food decreases GI side effects
pregabalin	<ul style="list-style-type: none"> • With or Without Food 	

Drug Name	Administration	Comments
primaquine	<ul style="list-style-type: none"> • With or Without Food 	Food decreases GI side effects; see also <i>Drug Administration and Grapefruit</i>
primidone	<ul style="list-style-type: none"> • With or Without Food 	Food decreases GI side effects
procainamide (regular)	<ul style="list-style-type: none"> • With or Without Food 	
procainamide (SR)	<ul style="list-style-type: none"> • With or Without Food • Do Not Crush or Chew 	
procarbazine	<ul style="list-style-type: none"> • With or Without Food • Do Not Crush or Chew 	Capsules should not be opened; cytotoxic; follow MAOI diet available at medicationinfoshare.com/gallery/mao-inhibitors-food-drug-interactions
prochlorperazine	<ul style="list-style-type: none"> • With or Without Food 	
propafenone	<ul style="list-style-type: none"> • With or Without Food 	Manufacturer recommends administration with food but bioavailability was not significantly affected by food in multidose studies; see also <i>Drug Administration and Grapefruit</i>
propiverine (capsule)	<ul style="list-style-type: none"> • With or Without Food • Do Not Crush or Chew 	
propiverine (tablet)	<ul style="list-style-type: none"> • Empty Stomach 	A high-fat meal increases bioavailability of the tablet; take at least 1 h before meals, especially in patients with renal or mild hepatic impairment
propranolol (LA)	<ul style="list-style-type: none"> • With or Without Food • Do Not Crush or Chew 	
propranolol (regular)	<ul style="list-style-type: none"> • With or Without Food 	Be consistent; food may increase bioavailability
propylthiouracil	<ul style="list-style-type: none"> • With or Without Food 	
prucalopride	<ul style="list-style-type: none"> • With or Without Food 	
pseudoephedrine	<ul style="list-style-type: none"> • With or Without Food 	
psyllium (powder)	<ul style="list-style-type: none"> • With or Without Food 	Take with meals for cholesterol-lowering effect; mix dose into water, juice or other suitable liquid; follow dose with additional glass of liquid
pyrantel	<ul style="list-style-type: none"> • With or Without Food 	
pyrazinamide	<ul style="list-style-type: none"> • With or Without Food 	
pyridostigmine (regular)	<ul style="list-style-type: none"> • With or Without Food • Do Not Crush or Chew 	Tablets may be cut in half; do not crush or chew as may increase side effects

Drug Name	Administration	Comments
pyridostigmine (SR)	<ul style="list-style-type: none"> • With or Without Food • Do Not Crush or Chew 	Do not divide
pyridoxine	<ul style="list-style-type: none"> • With or Without Food 	
quetiapine	<ul style="list-style-type: none"> • With or Without Food 	See also <i>Drug Administration and Grapefruit</i>
quetiapine (XR)	<ul style="list-style-type: none"> • With or Without Food • Do Not Crush or Chew 	Swallow whole; see also <i>Drug Administration and Grapefruit</i>
quinagolide	<ul style="list-style-type: none"> • With or After Meals 	Given at bedtime with a snack
quinapril	<ul style="list-style-type: none"> • With or Without Food 	
quinidine salts (CR)	<ul style="list-style-type: none"> • With or After Meals • Do Not Crush or Chew 	Food decreases GI side effects; take with a glass of water; may be cut in half; see also <i>Drug Administration and Grapefruit</i>
quinidine salts (regular)	<ul style="list-style-type: none"> • With or After Meals 	Food decreases GI side effects; see also <i>Drug Administration and Grapefruit</i>
quinine	<ul style="list-style-type: none"> • With or After Meals • Do Not Crush or Chew 	Food decreases GI side effects; very bitter taste if crushed or chewed
rabeprazole (EC)	<ul style="list-style-type: none"> • With or Without Food • Do Not Crush or Chew 	Preferable to take 30 min before meals
raloxifene	<ul style="list-style-type: none"> • With or Without Food 	
raltegravir	<ul style="list-style-type: none"> • With or Without Food • Do Not Crush or Chew 	Bioavailability increased if chewed or crushed; bitter taste
raltegravir (chewable)	<ul style="list-style-type: none"> • With or Without Food 	
ramipril	<ul style="list-style-type: none"> • With or Without Food 	
ranitidine	<ul style="list-style-type: none"> • With or Without Food 	
rasagiline mesylate	<ul style="list-style-type: none"> • With or Without Food 	
regorafenib	<ul style="list-style-type: none"> • With or After Meals • Do Not Crush or Chew 	Take with a low-fat breakfast
repaglinide	<ul style="list-style-type: none"> • Before Meals 	See also <i>Drug Administration and Grapefruit</i>

Drug Name	Administration	Comments
ribavirin	<ul style="list-style-type: none"> • With or After Meals • Do Not Crush or Chew 	Cytotoxic
ribociclib	<ul style="list-style-type: none"> • With or Without Food • Do Not Crush or Chew 	Be consistent with timing (preferably in the morning); see also <i>Drug Administration and Grapefruit</i>
riboflavin	<ul style="list-style-type: none"> • With or Without Food 	
rifabutin	<ul style="list-style-type: none"> • With or Without Food 	Food decreases GI side effects
rifampin	<ul style="list-style-type: none"> • Empty Stomach Preferably 	
rifaximin	<ul style="list-style-type: none"> • Empty Stomach 	
rilpivirine	<ul style="list-style-type: none"> • With or After Meals 	See also <i>Drug Administration and Grapefruit</i>
riluzole	<ul style="list-style-type: none"> • Empty Stomach 	Food decreases bioavailability
riociguat	<ul style="list-style-type: none"> • With or Without Food 	
risedronate	<ul style="list-style-type: none"> • Empty Stomach • Do Not Crush or Chew 	Take in the morning with a full glass of plain water only and at least 30 min before first food, beverage or other medication
risedronate (DR)	<ul style="list-style-type: none"> • With or After Meals • Do Not Crush or Chew 	Take in the morning with breakfast and a full glass of plain water
risperidone (liquid)	<ul style="list-style-type: none"> • With or Without Food 	Compatible with water, coffee, orange juice and low-fat milk; not compatible with cola or tea
risperidone (orally disintegrating tablet)	<ul style="list-style-type: none"> • Do Not Crush or Chew 	Do not split tablets
risperidone (tablet, regular)	<ul style="list-style-type: none"> • With or Without Food 	
ritonavir (capsule)	<ul style="list-style-type: none"> • With or After Meals 	
ritonavir (liquid)	<ul style="list-style-type: none"> • With or After Meals 	May mix with chocolate milk or Ensure within 1 h of dosing
rivaroxaban	<ul style="list-style-type: none"> • With or Without Food 	See also <i>Drug Administration and Grapefruit</i>
rivastigmine	<ul style="list-style-type: none"> • With or After Meals 	Food decreases GI side effects
rizatriptan (tablet)	<ul style="list-style-type: none"> • With or Without Food 	Take with a glass of water
rizatriptan (wafers)	<ul style="list-style-type: none"> • With or Without Food 	Place wafer on tongue to dissolve and swallow with saliva

Drug Name	Administration	Comments
roflumilast	<ul style="list-style-type: none"> • With or Without Food 	
ropinirole	<ul style="list-style-type: none"> • With or Without Food • Do Not Crush or Chew 	Food decreases GI side effects; take with a glass of water; give morning dose without food in severely fluctuating patients to avoid delay in time to take effect
rosiglitazone	<ul style="list-style-type: none"> • With or Without Food 	
rosuvastatin	<ul style="list-style-type: none"> • With or Without Food 	
rotavirus vaccine, human	<ul style="list-style-type: none"> • With or Without Food 	
rufinamide	<ul style="list-style-type: none"> • With or After Meals 	
rupatadine	<ul style="list-style-type: none"> • With or Without Food 	See also <i>Drug Administration and Grapefruit</i>
ruxolitinib	<ul style="list-style-type: none"> • With or Without Food • Do Not Crush or Chew 	See also <i>Drug Administration and Grapefruit</i>
sacubitril/valsartan	<ul style="list-style-type: none"> • With or Without Food 	
safinamide	<ul style="list-style-type: none"> • With or Without Food 	Take with a glass of water; be consistent with timing
salbutamol	<ul style="list-style-type: none"> • With or Without Food 	
sapropterin	<ul style="list-style-type: none"> • With or After Meals 	Food increases absorption; may be dissolved in 120–240 mL of water or apple juice and taken within 15 min
saquinavir mesylate	<ul style="list-style-type: none"> • With or After Meals 	Take with a glass of water within 2 h of a meal or substantial snack; see also <i>Drug Administration and Grapefruit</i>
saxagliptin	<ul style="list-style-type: none"> • With or Without Food 	See also <i>Drug Administration and Grapefruit</i>
saxagliptin/metformin	<ul style="list-style-type: none"> • With or After Meals 	Food decreases GI side effects; see also <i>Drug Administration and Grapefruit</i>
selegiline	<ul style="list-style-type: none"> • With or After Meals 	MAOI diet restrictions not required at the recommended dosage level of 10 mg/day
selexipag	<ul style="list-style-type: none"> • With or Without Food • Do Not Crush or Chew 	
sennosides	<ul style="list-style-type: none"> • With or Without Food 	Take with a glass of water
sertraline	<ul style="list-style-type: none"> • With or After Meals 	Food increases bioavailability; see also <i>Drug Administration and Grapefruit</i>
sevelamer	<ul style="list-style-type: none"> • With or After Meals • Do Not Crush or Chew 	Take immediately prior to or with meals

Drug Name	Administration	Comments
sildenafil	<ul style="list-style-type: none"> • With or Without Food • Do Not Crush or Chew 	Take with a glass of water; avoid high-fat meal (decreases absorption); see also <i>Drug Administration and Grapefruit</i>
silodosin	<ul style="list-style-type: none"> • With or After Meals • Do Not Crush or Chew 	Contents of capsule may be sprinkled onto applesauce and swallowed without chewing; see also <i>Drug Administration and Grapefruit</i>
simethicone	<ul style="list-style-type: none"> • With or After Meals 	
simvastatin	<ul style="list-style-type: none"> • With or Without Food 	Take with evening meal or at bedtime; see also <i>Drug Administration and Grapefruit</i>
sirolimus	<ul style="list-style-type: none"> • With or Without Food 	Be consistent; dilute dose with at least 60 mL of water or orange juice; stir vigorously for 1 min and drink; refill the container with at least 120 mL of water or orange juice; stir vigorously again and drink the rinse solution; do not use apple juice, grapefruit juice or other liquids for dilution; see also <i>Drug Administration and Grapefruit</i>
sitagliptin	<ul style="list-style-type: none"> • With or Without Food 	
sitagliptin/metformin	<ul style="list-style-type: none"> • With or After Meals 	Food decreases GI side effects
sitagliptin/metformin (XR)	<ul style="list-style-type: none"> • With or After Meals • Do Not Crush or Chew 	Food decreases GI side effects
sodium bicarbonate	<ul style="list-style-type: none"> • With or Without Food 	
sodium cromoglycate	<ul style="list-style-type: none"> • Before Meals 	Dissolve contents of capsule in warm water
sodium fluoride	<ul style="list-style-type: none"> • With or Without Food 	May be taken with food, but not milk, to reduce GI side effects; preferably taken at bedtime after brushing teeth
sodium oxybate (GHB)	<ul style="list-style-type: none"> • Empty Stomach 	Food decreases bioavailability; first dose taken at bedtime, at least 2 h after last meal; second dose is given 2.5–4 h later
sodium phenylbutyrate	<ul style="list-style-type: none"> • With or After Meals 	Take with each meal or feeding; granules may be swallowed with a drink or sprinkled on a soft food such as applesauce; do not administer by tube, e.g., nasogastric, gastrostomy; an appropriate solution must be prepared by hospital or pharmacy personnel as per product monograph
sofosbuvir	<ul style="list-style-type: none"> • With or Without Food 	
sofosbuvir/velpatasvir	<ul style="list-style-type: none"> • With or Without Food 	
sofosbuvir/velpatasvir/voxilaprevir	<ul style="list-style-type: none"> • With or After Meals 	
solifenacin	<ul style="list-style-type: none"> • With or Without Food 	See also <i>Drug Administration and Grapefruit</i>
sorafenib	<ul style="list-style-type: none"> • Empty Stomach 	Food decreases bioavailability; take 1 h before or 2 h after meals
sotalol	<ul style="list-style-type: none"> • Empty Stomach 	Preferably 1–2 h before meal

Drug Name	Administration	Comments
spiramycin	<ul style="list-style-type: none"> With or Without Food 	
spironolactone	<ul style="list-style-type: none"> With or Without Food 	Food increases absorption; avoid large quantities of potassium-rich foods
stavudine	<ul style="list-style-type: none"> With or Without Food 	
sterculia gum	<ul style="list-style-type: none"> With or Without Food Do Not Crush or Chew 	Take with a glass of water; do not chew granules
stiripentol (capsule)	<ul style="list-style-type: none"> With or After Meals Do Not Crush or Chew 	Do not open capsules; not to be taken with dairy products, carbonated drinks, fruit juice or caffeine-containing food or drinks; see also <i>Drug Administration and Grapefruit</i>
stiripentol (powder for suspension)	<ul style="list-style-type: none"> With or After Meals 	Mix with water and drink immediately; not to be taken with dairy products, carbonated drinks, fruit juice or caffeine-containing food or drinks; see also <i>Drug Administration and Grapefruit</i>
sucralfate	<ul style="list-style-type: none"> Empty Stomach 	Take 1 h before meals
sulfamethoxazole/trimethoprim	<ul style="list-style-type: none"> With or Without Food 	Food decreases GI side effects; take with a glass of water
sulfasalazine (EC)	<ul style="list-style-type: none"> With or Without Food Do Not Crush or Chew 	Take with a glass of water
sulfasalazine (regular)	<ul style="list-style-type: none"> With or After Meals 	Food decreases GI side effects; take with a glass of water
sulfinpyrazone	<ul style="list-style-type: none"> With or After Meals 	Food decreases GI side effects
sulindac	<ul style="list-style-type: none"> With or After Meals 	Food decreases GI side effects; take with a glass of water or milk
sumatriptan	<ul style="list-style-type: none"> With or Without Food Do Not Crush or Chew 	Take with a glass of water
sunitinib	<ul style="list-style-type: none"> With or Without Food 	See also <i>Drug Administration and Grapefruit</i>
suvorexant	<ul style="list-style-type: none"> With or Without Food 	Food may slow onset of effect; see also <i>Drug Administration and Grapefruit</i>
tacrolimus	<ul style="list-style-type: none"> With or Without Food Do Not Crush or Chew 	Be consistent; see also <i>Drug Administration and Grapefruit</i>
tacrolimus (PA, prolonged release)	<ul style="list-style-type: none"> Empty Stomach Do Not Crush or Chew 	Swallow whole; be consistent with timing (preferably in the morning); see also <i>Drug Administration and Grapefruit</i>
tadalafil	<ul style="list-style-type: none"> With or Without Food 	See also <i>Drug Administration and Grapefruit</i>

Drug Name	Administration	Comments
tamoxifen	<ul style="list-style-type: none"> • With or Without Food 	
tamsulosin (CR)	<ul style="list-style-type: none"> • With or Without Food • Do Not Crush or Chew 	See also <i>Drug Administration and Grapefruit</i>
tapentadol (CR)	<ul style="list-style-type: none"> • With or Without Food • Do Not Crush or Chew 	
tapentadol (IR)	<ul style="list-style-type: none"> • With or Without Food 	
telbivudine	<ul style="list-style-type: none"> • With or Without Food 	
telmisartan	<ul style="list-style-type: none"> • With or Without Food 	Be consistent
temazepam	<ul style="list-style-type: none"> • With or Without Food 	
temozolomide	<ul style="list-style-type: none"> • Empty Stomach • Do Not Crush or Chew 	May take with food, but administration on empty stomach may decrease incidence of nausea and vomiting; be consistent; swallow whole with a glass of water—do not open capsules (cytotoxic)
tenofovir	<ul style="list-style-type: none"> • With or Without Food 	Swallow with plenty of water
tenoxicam	<ul style="list-style-type: none"> • With or After Meals 	Food decreases GI side effects; take with a glass of water or milk
terazosin	<ul style="list-style-type: none"> • With or Without Food 	
terbinafine	<ul style="list-style-type: none"> • With or Without Food 	Food slightly increases bioavailability
teriflunomide	<ul style="list-style-type: none"> • With or Without Food 	
testosterone undecanoate	<ul style="list-style-type: none"> • With or After Meals • Do Not Crush or Chew 	
tetrabenazine	<ul style="list-style-type: none"> • With or Without Food 	Take with a glass of water
tetracycline	<ul style="list-style-type: none"> • Empty Stomach 	Take with a glass of water; do not take with milk
thalidomide	<ul style="list-style-type: none"> • With or Without Food • Do Not Crush or Chew 	Capsules should not be opened; cytotoxic; teratogenic
theophylline (liquid)	<ul style="list-style-type: none"> • Empty Stomach Preferably 	Take with a glass of water

Drug Name	Administration	Comments
theophylline (SR tablet—except Uniphyll)	<ul style="list-style-type: none"> • With or Without Food • Do Not Crush or Chew 	Be consistent; take with a glass of water
theophylline (Uniphyll)	<ul style="list-style-type: none"> • With or After Meals • Do Not Crush or Chew 	Take with a glass of water with or shortly after evening meal; tablet may be halved
thiamine	<ul style="list-style-type: none"> • With or Without Food 	
thyroid, desiccated	<ul style="list-style-type: none"> • With or Without Food 	Be consistent
tiaprofenic acid (regular)	<ul style="list-style-type: none"> • With or After Meals 	Take with a glass of water or milk
ticagrelor	<ul style="list-style-type: none"> • With or Without Food 	See also <i>Drug Administration and Grapefruit</i>
timolol	<ul style="list-style-type: none"> • With or Without Food 	
tipranavir	<ul style="list-style-type: none"> • With or After Meals 	Avoid aluminum and magnesium based antacids—absorption of tipranavir decreased
tizanidine	<ul style="list-style-type: none"> • With or Without Food 	Be consistent; food increases bioavailability
tofacitinib	<ul style="list-style-type: none"> • With or Without Food 	See also <i>Drug Administration and Grapefruit</i>
tolbutamide	<ul style="list-style-type: none"> • Before Meals 	Short half-life
tolterodine (ER)	<ul style="list-style-type: none"> • With or Without Food • Do Not Crush or Chew 	
tolterodine (regular)	<ul style="list-style-type: none"> • With or Without Food 	
tolvaptan	<ul style="list-style-type: none"> • With or Without Food 	See also <i>Drug Administration and Grapefruit</i>
topiramate (capsule)	<ul style="list-style-type: none"> • With or Without Food • Do Not Crush or Chew 	May sprinkle contents of capsule onto soft food, e.g., applesauce, swallow without chewing
topiramate (tablet)	<ul style="list-style-type: none"> • With or Without Food • Do Not Crush or Chew 	Take with a glass of water
tramadol (regular)	<ul style="list-style-type: none"> • With or Without Food 	
tramadol (XL)	<ul style="list-style-type: none"> • With or Without Food • Do Not Crush or Chew 	

Drug Name	Administration	Comments
trametinib	<ul style="list-style-type: none"> • Empty Stomach • Do Not Crush or Chew 	
trandolapril	<ul style="list-style-type: none"> • With or Without Food 	
trandolapril/verapamil	<ul style="list-style-type: none"> • With or After Meals • Do Not Crush or Chew 	
tranexamic acid	<ul style="list-style-type: none"> • With or Without Food 	
tranylcypromine	<ul style="list-style-type: none"> • With or Without Food 	Follow MAOI diet; available at medicationinfoshare.com/gallery/mao-inhibitors-food-drug-interactions
trazodone	<ul style="list-style-type: none"> • With or After Meals 	Food decreases incidence of adverse effects (GI and dizziness)
tretinoin	<ul style="list-style-type: none"> • With or After Meals • Do Not Crush or Chew 	Cytotoxic
triamterene/ hydrochlorothiazide	<ul style="list-style-type: none"> • With or After Meals 	Food decreases GI side effects
triazolam	<ul style="list-style-type: none"> • With or Without Food 	See also <i>Drug Administration and Grapefruit</i>
trifluoperazine	<ul style="list-style-type: none"> • With or Without Food 	
trihexyphenidyl	<ul style="list-style-type: none"> • With or Without Food 	Food decreases GI side effects
trimebutine	<ul style="list-style-type: none"> • Before Meals 	
trimeprazine	<ul style="list-style-type: none"> • With or After Meals 	Food promotes more gradual absorption and decreases incidence of drowsiness
trimethoprim	<ul style="list-style-type: none"> • With or Without Food 	Food decreases GI side effects
trimipramine	<ul style="list-style-type: none"> • With or Without Food 	
tropium	<ul style="list-style-type: none"> • Empty Stomach 	Take at least 1h prior to meals; food decreases absorption
tryptophan (see L-tryptophan)		
typhoid vaccine (capsule)	<ul style="list-style-type: none"> • Before Meals • Do Not Crush or Chew 	Swallow whole 1h before a meal with a cold or lukewarm drink
ulipristal	<ul style="list-style-type: none"> • With or Without Food 	See also <i>Drug Administration and Grapefruit</i>
ursodiol	<ul style="list-style-type: none"> • With or After Meals 	
valacyclovir	<ul style="list-style-type: none"> • With or Without Food 	

Drug Name	Administration	Comments
valerian root	<ul style="list-style-type: none"> • With or Without Food 	
valganciclovir	<ul style="list-style-type: none"> • With or After Meals • Do Not Crush or Chew 	Food increases bioavailability; cytotoxic
valproic acid	<ul style="list-style-type: none"> • With or Without Food • Do Not Crush or Chew 	Food decreases GI side effects; swallow whole with a glass of water; minimize local irritation of mouth and throat
valsartan	<ul style="list-style-type: none"> • With or Without Food 	Be consistent
vancomycin	<ul style="list-style-type: none"> • With or Without Food 	Not absorbed
vandetanib	<ul style="list-style-type: none"> • With or Without Food • Do Not Crush or Chew 	Tablet may be dispersed in 50 mL of non-carbonated water for about 10 min and immediately swallowed; wash any remaining residue with water and swallow; see also <i>Drug Administration and Grapefruit</i>
ildenafil	<ul style="list-style-type: none"> • With or Without Food 	High-fat meal decreases rate of absorption by 1 h; see also <i>Drug Administration and Grapefruit</i>
varenicline	<ul style="list-style-type: none"> • With or After Meals 	Food decreases GI side effects
vemurafenib	<ul style="list-style-type: none"> • With or Without Food • Do Not Crush or Chew 	Be consistent; see also <i>Drug Administration and Grapefruit</i>
venetoclax	<ul style="list-style-type: none"> • With or After Meals • Do Not Crush or Chew 	Take at approximately the same time each day with water and a meal; see also <i>Drug Administration and Grapefruit</i>
venlafaxine (XR)	<ul style="list-style-type: none"> • With or After Meals • Do Not Crush or Chew 	Swallow whole with a glass of water
verapamil (regular)	<ul style="list-style-type: none"> • With or After Meals 	See also <i>Drug Administration and Grapefruit</i>
verapamil (SR)	<ul style="list-style-type: none"> • With or After Meals • Do Not Crush or Chew 	240 mg scored tablet may be halved; see also <i>Drug Administration and Grapefruit</i>
vigabatrin (powder)	<ul style="list-style-type: none"> • With or Without Food 	Dissolve in water, juice, milk or formula
vigabatrin (tablet)	<ul style="list-style-type: none"> • With or Without Food 	
vilazodone	<ul style="list-style-type: none"> • With or After Meals 	See also <i>Drug Administration and Grapefruit</i>
vismodegib	<ul style="list-style-type: none"> • With or Without Food • Do Not Crush or Chew 	

Drug Name	Administration	Comments
vitamin A	<ul style="list-style-type: none"> • With or Without Food 	
vitamin B ₁₂	<ul style="list-style-type: none"> • With or Without Food 	
vitamin C	<ul style="list-style-type: none"> • With or After Meals 	Take with a glass of water
vitamin D ₃ (see cholecalciferol)		
vitamin E	<ul style="list-style-type: none"> • With or Without Food 	
voriconazole	<ul style="list-style-type: none"> • Empty Stomach 	Take at least 1 h before or 2 h following meals
vorinostat	<ul style="list-style-type: none"> • With or After Meals 	Drink at least 2 L/day of fluid to prevent dehydration
vortioxetine	<ul style="list-style-type: none"> • With or Without Food 	See also <i>Drug Administration and Grapefruit</i>
warfarin	<ul style="list-style-type: none"> • With or Without Food 	Avoid abrupt changes in diet to maintain constant vitamin K intake; for vitamin K content of specific foods, see depts.washington.edu/anticoag/home/content/patient-education-0
yohimbine	<ul style="list-style-type: none"> • With or Without Food 	Avoid foods or beverages with high tyramine content
zidovudine	<ul style="list-style-type: none"> • With or Without Food 	
zinc	<ul style="list-style-type: none"> • Empty Stomach Preferably 	
ziprasidone	<ul style="list-style-type: none"> • With or After Meals 	Administration with food increases absorption; see also <i>Drug Administration and Grapefruit</i>
zolmitriptan (orally dispersible tablet)	<ul style="list-style-type: none"> • With or Without Food • Do Not Crush or Chew 	Rapidly dissolves on tongue; may be taken without water; do not split tablets
zolmitriptan (tablet)	<ul style="list-style-type: none"> • With or Without Food 	
zolpidem	<ul style="list-style-type: none"> • Empty Stomach Preferably • Do Not Crush or Chew 	Sublingual tablet; food slows onset of effect; do not take within 20 min of a meal
zopiclone	<ul style="list-style-type: none"> • With or Without Food 	
zuclopenthixol	<ul style="list-style-type: none"> • With or Without Food 	

Legend:

Empty Stomach = 1 h before or 2 h after meals with a full glass of liquid, usually water; **Before Meals** = usually 15–30 min before meals; **Empty Stomach Preferably** = as for Empty Stomach; however, may be taken with food if gastric upset occurs; **With or After Meals** = taken during or immediately after meals; **With or Without Food** = may be given without regard to meals; the notation “be consistent” in the comments column indicates that the drug should be taken consistently with or without food, as presence or absence of food may alter bioavailability

Abbreviations: CD=controlled-delivery; CR=controlled-release; DR=delayed-release; EC=enteric-coated; ER=extended-release; IR=immediate-release; GI=gastrointestinal; LA=long-acting; MR=modified-release; RD=rapid-dissolve; SL=sublingual; SR=sustained-release; XC=extended-release; XL=extended-release; XR=extended-release.

This information is not intended to present a comprehensive review; clients are therefore encouraged to seek additional confirmatory information. Not intended for use by patients. CPhA assumes no responsibility for, or liability in connection with the use of this information. Once printed there is no guarantee the information is up-to-date. [Printed on: 08-27-2020 12:11 PM]
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