

# Interactions with Protease Inhibitors

Charts revised 2 November 2023. Full information available at [www.hiv-druginteractions.org](http://www.hiv-druginteractions.org)

Please note that if a drug is not listed it cannot automatically be assumed it is safe to coadminister.

	ATV	ATV/c	ATV/r	DRV/c	DRV/c /FTAF	DRV/r	LPV	RTV
<b>Anaesthetics &amp; Muscle Relaxants</b>								
Alcuronium	◆	◆	◆	◆	▲	◆	◆	◆
Bupivacaine	■	■	■	■	■	■	■	■
Cisatracurium	◆	◆	◆	◆	◆	◆	◆	◆
Desflurane	◆	◆	◆	◆	◆	◆	◆	◆
Dexmedetomidine	◆	◆	■	◆	◆	■	■	■
Enflurane	◆	◆	◆	◆	◆	◆	◆	◆
Ephedrine	◆	◆	◆	◆	◆	◆	◆	◆
Etidocaine	■	■	■	■	■	■	■	■
Halothane	◆	◆	◆	◆	◆	◆	◆	◆
Isoflurane	◆	◆	◆	◆	◆	◆	◆	◆
Ketamine	■	■	■	■	■	■	■	■
Minaxolone	■	■	■	■	■	■	■	■
Nitrous oxide	◆	◆	◆	◆	◆	◆	◆	◆
Propofol	■	■	■	■	▲	■	■	▲
Rocuronium	■	■	■	■	■	■	■	■
Sevoflurane	◆	◆	◆	◆	◆	◆	◆	◆
Sufentanil	■	■	■	■	■	■	■	■
Suxamethonium (succinylcholine)	◆	◆	◆	◆	◆	◆	◆	◆
Tetracaine	◆	◆	◆	◆	◆	◆	◆	◆
Thiopental	◆	◆	◆	◆	◆	◆	◆	◆
Tizanidine	▲	▲	▲	◆	◆	■	■	■
Vecuronium	◆	◆	◆	◆	◆	◆	◆	◆
<b>Analgesics</b>								
Alfentanil	■	■	■	■	■	■	■	■
Aspirin	◆	◆	◆	◆	◆	◆	◆	◆
Buprenorphine	■	■	■	▲	▲	■	■	■
Celecoxib	◆	◆	◆	◆	◆	◆	◆	◆
Codeine	◆	▲	▲	▲	▲	▲	▲	▲
Dextropropoxyphene	●	●	●	●	●	●	●	●
Diamorphine (diacetylmorphine)	■	■	■	■	■	■	■	■
Diclofenac	◆	◆	◆	◆	◆	◆	◆	◆
Dihydrocodeine	▲	▲	▲	▲	▲	▲	▲	▲
Fentanyl	■	■	■	■	■	■	■	■
Hydrocodone	■	■	■	■	■	■	■	■
Hydromorphone	◆	◆	◆	◆	◆	◆	◆	◆
Ibuprofen	◆	◆	◆	◆	◆	◆	◆	◆
Indometacin (Indomethacin)	◆	◆	◆	◆	◆	◆	◆	◆
Ketoprofen	◆	◆	◆	◆	◆	◆	◆	◆
Ketorolac	◆	◆	◆	◆	◆	◆	◆	◆
Mefenamic acid	◆	◆	◆	◆	◆	◆	◆	◆
Meloxicam	▲	▲	▲	▲	▲	▲	▲	▲
Methadone	■	■	■	▲	▲	■	■	■
Morphine	■	■	■	■	■	■	■	■
Naproxen	◆	◆	◆	◆	◆	◆	◆	◆
Nimesulide	◆	◆	◆	◆	◆	◆	◆	◆
Oxycodone	■	■	■	■	■	■	■	■
Paracetamol (Acetaminophen)	◆	◆	◆	◆	◆	◆	◆	◆
Pethidine (Meperidine)	▲	▲	▲	▲	▲	▲	▲	▲
Piroxicam	◆	◆	◆	◆	◆	◆	◆	●
Tapentadol	◆	◆	◆	◆	◆	◆	◆	◆
Tramadol	▲	▲	▲	▲	▲	▲	▲	▲
<b>Anthelmintics</b>								
Albendazole	◆	◆	■	▲	▲	■	■	■
Diethylcarbamazine	◆	◆	◆	◆	◆	◆	◆	◆
Ivermectin	▲	▲	▲	▲	▲	▲	▲	▲
Levamisole (Ergamisol)	◆	◆	◆	◆	◆	◆	◆	◆
Mebendazole	■	■	■	■	■	■	■	■
Niclosamide	◆	◆	◆	◆	◆	◆	◆	◆
Oxamniquine	◆	▲	▲	▲	▲	▲	▲	▲
Praziquantel	■	■	■	■	■	■	■	■
Pyrantel	◆	◆	◆	◆	◆	◆	◆	◆
Suramin sodium	◆	◆	◆	◆	◆	◆	◆	◆
Triclabendazole	▲	▲	▲	▲	▲	▲	▲	▲
<b>Antiarrhythmics</b>								
Amiodarone	●	●	●	●	●	●	●	●
Bepriidil	■	■	■	■	■	■	■	■
Digoxin	■	■	■	■	■	■	■	■
Disopyramide	●	●	●	●	●	●	●	●
Dofetilide	■	■	■	■	■	■	■	■
Dronedarone	●	●	●	●	●	●	●	●
Flecainide	●	●	●	■	■	■	■	■
Lidocaine (Lignocaine)	●	●	●	■	■	■	■	■
Mexiletine	◆	◆	◆	◆	◆	◆	◆	◆
Propafenone	■	■	■	■	■	■	■	■
Quinidine	●	●	●	●	●	●	●	●

	ATV	ATV/c	ATV/r	DRV/c	DRV/c /FTAF	DRV/r	LPV	RTV
<b>Antibacterials</b>								
Amikacin	◆	◆	◆	◆	◆	◆	◆	◆
Amoxicillin	◆	◆	◆	◆	◆	◆	◆	◆
Ampicillin	◆	◆	◆	◆	▲	◆	◆	◆
Azithromycin	■	■	■	■	◆	■	■	■
Bedaquiline	■	■	■	■	■	■	■	■
Capreomycin	◆	◆	◆	◆	▲	◆	◆	◆
Cefalexin	◆	◆	◆	◆	◆	◆	◆	◆
Cefazolin	◆	◆	◆	◆	◆	◆	◆	◆
Cefixime	◆	◆	◆	◆	◆	◆	◆	◆
Cefotaxime	◆	◆	◆	◆	◆	◆	◆	◆
Ceftazidime	◆	◆	◆	◆	◆	◆	◆	◆
Ceftriaxone	◆	◆	◆	◆	◆	◆	◆	◆
Chloramphenicol	▲	▲	▲	▲	▲	▲	▲	▲
Ciprofloxacin	■	■	■	■	■	■	■	■
Clarithromycin	■	■	■	■	■	■	■	■
Clavulanic acid	◆	◆	◆	◆	◆	◆	◆	◆
Clindamycin	■	■	■	■	■	■	■	■
Clofazimine	◆	◆	◆	◆	◆	◆	◆	◆
Cloxacillin	◆	◆	◆	◆	◆	◆	◆	◆
Cycloserine	◆	◆	◆	◆	◆	◆	◆	◆
Dapsone	◆	◆	◆	◆	◆	◆	◆	◆
Daptomycin	◆	◆	◆	◆	◆	◆	◆	◆
Delamanid	■	■	■	■	■	■	■	■
Doxycycline	◆	◆	◆	◆	◆	◆	◆	◆
Ertapenem	◆	◆	◆	◆	◆	◆	◆	◆
Erythromycin	■	■	■	■	■	■	■	■
Ethambutol	◆	◆	◆	◆	◆	◆	◆	◆
Ethionamide	◆	◆	◆	◆	◆	◆	◆	◆
Flucloxacillin	■	■	■	■	■	■	■	■
Fosfomicin	◆	◆	◆	◆	◆	◆	◆	◆
Gentamicin	◆	◆	◆	◆	◆	◆	◆	◆
Imipenem/Cilastatin	◆	◆	◆	◆	◆	◆	◆	◆
Isoniazid	◆	◆	◆	◆	◆	◆	◆	◆
Kanamycin	◆	◆	◆	◆	◆	◆	◆	◆
Levofloxacin	■	■	■	■	■	■	■	■
Linezolid	◆	◆	◆	◆	◆	◆	◆	◆
Meropenem	◆	◆	◆	◆	◆	◆	◆	◆
Metronidazole	◆	◆	■	◆	◆	■	■	■
Moxifloxacin	◆	◆	◆	◆	◆	◆	◆	■
Nitrofurantoin	◆	◆	◆	◆	◆	◆	◆	◆
Ofloxacin	■	■	■	◆	◆	◆	■	◆
Para-aminosalicylic acid	◆	◆	◆	◆	▲	◆	◆	◆
Penicillins	◆	◆	◆	◆	◆	◆	◆	◆
Piperacillin	◆	◆	◆	◆	◆	◆	◆	◆
Pretomanid	■	■	■	▲	▲	■	▲	▲
Pyrazinamide	◆	◆	◆	◆	◆	◆	◆	◆
Rifabutin	■	■	■	■	■	■	■	■
Rifampicin	●	●	●	●	●	●	●	●
Rifapentine	●	●	●	●	●	●	●	●
Rifaximin	◆	◆	◆	◆	◆	◆	◆	◆
Spectinomycin	◆	◆	◆	◆	◆	◆	◆	◆
Streptomycin	◆	◆	◆	◆	◆	◆	◆	◆
Sulfadiazine	◆	◆	▲	◆	▲	◆	▲	▲
Tazobactam	◆	◆	◆	◆	◆	◆	◆	◆
Telithromycin	■	■	■	■	■	■	■	■
Tetracyclines	◆	◆	◆	◆	◆	◆	◆	◆
Tinidazole	▲	▲	▲	▲	▲	▲	▲	▲
Trimethoprim/Sulfamethoxazole	◆	◆	◆	◆	▲	◆	▲	▲
Vancomycin	◆	◆	◆	◆	◆	◆	◆	◆
<b>Anti-coagulant, Anti-platelet and Fibrinolytic</b>								
Acenocoumarol	◆	◆	■	◆	◆	■	■	■
Apixaban	●	●	●	●	●	●	●	●
Argatroban	◆	◆	◆	◆	◆	◆	◆	◆
Aspirin (anti-platelet)	◆	◆	◆	◆	◆	◆	◆	◆
Betrixaban	■	■	■	■	■	■	■	■
Clopidogrel	●	●	●	●	●	●	●	●
Dabigatran	■	■	■	■	■	■	■	■
Dalteparin	◆	◆	◆	◆	◆	◆	◆	◆
Dipyridamole	◆	◆	◆	◆	◆	◆	◆	◆
Edoxaban	■	■	■	■	■	■	■	■
Enoxaparin	◆	◆	◆	◆	◆	◆	◆	◆
Fondaparinux	◆	◆	◆	◆	◆	◆	◆	◆
Heparin	◆	◆	◆	◆	◆	◆	◆	◆
Phenprocoumon	■	■	■	■	■	■	■	■
Prasugrel	◆	◆	◆	◆	◆	◆	◆	◆
Rivaroxaban	●	●	●	●	●	●	●	●
Streptokinase	◆	◆	◆	◆	◆	◆	◆	◆
Ticagrelor	●	●	●	●	●	●	●	●
Tinzaparin	◆	◆	◆	◆	◆	◆	◆	◆
Warfarin	■	■	■	■	■	■	■	■

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**Key to abbreviations**

ATV	Atazanavir alone (Reyataz <sup>®</sup> )	DRV/c /FTAF	Darunavir/cobicistat/ FTC/TAF (Symtuza <sup>®</sup> )
ATV/c	Atazanavir/cobicistat (Evotaz <sup>®</sup> )	DRV/r	Darunavir + Ritonavir (Prezista <sup>®</sup> +Norvir <sup>®</sup> )
ATV/r	Atazanavir + Ritonavir (Reyataz <sup>®</sup> +Norvir <sup>®</sup> )	LPV	Lopinavir (Kaletra <sup>®</sup> )
DRV/c	Darunavir/cobicistat (Rezosta <sup>®</sup> , Prezcoibix <sup>®</sup> )	RTV	Ritonavir (Norvir <sup>®</sup> )

**Key to symbols**

●	These drugs should not be coadministered
■	Potential interaction - may require close monitoring, alteration of drug dosage or timing of administration
▲	Potential interaction likely to be of weak intensity. Additional action/monitoring or dosage adjustment is unlikely to be required
◆	No clinically significant interaction expected

Where advice differs between countries, and/or between boosted and unboosted regimens, the charts reflect the more cautious option.

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	ATV	ATV/c	ATV/r	DRV/c	DRV/c /FTAF	DRV/r	LPV	RTV
<b>Anticonvulsants</b>								
Carbamazepine	●	●	■	●	●	■	■	■
Cenobamate	●	●	●	●	●	●	●	●
Clonazepam	■	■	■	■	■	■	■	■
Eslicarbazepine	■	■	■	■	■	■	■	■
Ethosuximide	■	■	■	■	■	■	■	■
Gabapentin	◆	◆	◆	◆	◆	◆	◆	◆
Lacosamide	▲	▲	▲	◆	◆	◆	▲	◆
Lamotrigine	◆	▲	■	◆	◆	◆	■	■
Levetiracetam	◆	◆	◆	◆	◆	◆	◆	◆
Oxcarbazepine	■	■	■	■	●	■	■	■
Perampanel	■	■	■	■	■	■	■	■
Phenobarbital (Phenobarbitone)	●	●	■	●	●	●	■	■
Phenytoin	●	●	■	●	●	●	■	■
Pregabalin	◆	◆	◆	◆	◆	◆	◆	◆
Primidone	●	●	■	●	●	●	■	■
Sodium valproate	◆	◆	■	◆	◆	◆	■	■
Tiagabine	■	■	■	■	■	■	■	■
Topiramate	◆	◆	◆	◆	◆	◆	◆	◆
Valproate semisodium (Divalproex)	◆	◆	■	◆	◆	◆	■	■
Valproic acid	◆	◆	■	◆	◆	◆	■	■
Vigabatrin	◆	◆	◆	◆	◆	◆	◆	◆
Zonisamide	◆	◆	◆	◆	◆	◆	◆	◆
<b>Antidepressants</b>								
Agomelatine	◆	▲	▲	◆	◆	■	■	■
Amitriptyline	■	▲	▲	▲	▲	▲	▲	▲
Bupropion	◆	◆	▲	◆	◆	■	■	■
Citalopram	■	■	■	▲	▲	■	■	■
Clomipramine	■	■	■	■	■	■	■	■
Desipramine	◆	■	■	▲	▲	▲	▲	▲
Desvenlafaxine	◆	◆	◆	◆	◆	◆	◆	◆
Doxepin	◆	▲	▲	▲	▲	▲	▲	▲
Duloxetine	◆	▲	▲	▲	▲	▲	▲	▲
Escitalopram	■	■	■	▲	▲	■	■	■
Fluoxetine	◆	▲	▲	▲	▲	■	■	■
Fluvoxamine	◆	▲	▲	▲	▲	▲	▲	▲
Imipramine	■	■	■	■	■	■	■	■
Lithium	■	■	■	◆	◆	◆	■	■
Maprotiline	■	■	■	▲	▲	▲	■	■
Mianserin	▲	▲	▲	▲	▲	■	■	■
Milnacipran	■	■	■	◆	◆	◆	■	■
Mirtazapine	■	■	■	■	■	■	■	■
Nefazodone	■	■	■	■	■	■	■	■
Nortriptyline	■	■	■	▲	▲	▲	▲	▲
Opipramol	◆	▲	▲	▲	▲	▲	▲	▲
Paroxetine	■	■	■	■	■	■	■	■
Phenelzine	◆	◆	◆	◆	◆	◆	◆	◆
Reboxetine	■	■	■	■	■	■	■	■
Sertraline	▲	▲	▲	▲	▲	▲	▲	▲
Tranlycypromine	■	■	■	■	■	■	■	■
Trazodone	■	■	■	■	■	■	■	■
Trimipramine	■	■	■	▲	▲	▲	▲	▲
Venlafaxine	■	■	■	▲	▲	▲	▲	▲
Vortioxetine	▲	▲	▲	▲	▲	▲	▲	▲
<b>Anti-diabetics</b>								
Acarbose	◆	◆	◆	◆	◆	◆	◆	◆
Alogliptin	◆	◆	■	◆	◆	■	■	■
Canagliflozin	◆	◆	■	◆	◆	■	■	■
Dapagliflozin	◆	◆	■	◆	◆	■	■	■
Dulaglutide	■	■	■	■	■	■	■	■
Empagliflozin	◆	◆	■	◆	◆	■	■	■
Exenatide	■	■	■	■	■	■	■	■
Glibenclamide (Glyburide)	■	■	■	■	■	■	■	■
Gliclazide	◆	◆	■	◆	◆	■	■	■
Glimepiride	◆	◆	■	◆	◆	■	■	■
Glipizide	◆	◆	■	◆	◆	■	■	■
Insulin	◆	◆	◆	◆	◆	◆	◆	◆
Linagliptin	◆	◆	■	◆	◆	■	■	■
Liraglutide	■	■	■	■	■	■	■	■
Metformin	◆	◆	◆	◆	◆	◆	◆	◆
Nateglinide	■	■	■	■	■	■	■	■
Pioglitazone	▲	▲	▲	▲	▲	▲	▲	▲
Repaglinide	●	●	●	■	■	■	■	■
Rosiglitazone	◆	◆	◆	◆	◆	▲	▲	▲
Saxagliptin	■	■	■	■	■	■	■	■
Semaglutide	■	■	■	■	■	■	■	■
Sitagliptin	◆	◆	◆	◆	◆	◆	◆	◆
Tirzepatide	■	■	■	■	■	■	■	■
Tolbutamide	◆	◆	■	◆	◆	■	■	■
Vildagliptin	◆	◆	◆	◆	◆	◆	◆	◆

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	ATV	ATV/c	ATV/r	DRV/c	DRV/c /FTAF	DRV/r	LPV	RTV
<b>Antifungals</b>								
Amphotericin B	◆	◆	◆	◆	◆	◆	◆	◆
Anidulafungin	◆	◆	◆	◆	◆	◆	◆	◆
Caspofungin	▲	▲	▲	◆	◆	◆	◆	◆
Clotrimazole (pessary, troche)	◆	◆	◆	◆	◆	◆	◆	◆
Clotrimazole (topical)	◆	◆	◆	◆	◆	◆	◆	◆
Fluconazole	◆	◆	◆	▲	▲	◆	■	◆
Flucytosine	◆	◆	◆	◆	◆	◆	◆	◆
Griseofulvin	■	■	■	■	■	■	■	■
Isavuconazole	●	●	■	●	●	■	■	■
Itraconazole	■	■	■	■	■	■	■	■
Ketoconazole	■	■	■	■	■	■	■	■
Miconazole	◆	◆	◆	◆	◆	◆	◆	◆
Nystatin	■	■	■	■	■	■	■	■
Posaconazole	■	■	■	■	■	■	■	■
Terbinafine	▲	▲	▲	▲	▲	▲	▲	▲
Voriconazole	■	■	■	■	■	■	■	■
<b>Antihistamines</b>								
Astemizole	●	●	●	●	●	●	●	●
Cetirizine	◆	◆	◆	◆	◆	◆	◆	◆
Chlorphenamine	◆	▲	▲	▲	▲	▲	▲	▲
Desloratadine	◆	◆	◆	◆	◆	◆	◆	◆
Diphenhydramine	◆	▲	▲	▲	▲	▲	▲	▲
Fexofenadine	▲	▲	▲	▲	▲	▲	▲	▲
Levocetirizine	◆	◆	◆	◆	◆	◆	◆	◆
Loratadine	▲	▲	▲	▲	▲	▲	▲	▲
Promethazine	■	■	■	▲	▲	▲	■	▲
Terfenadine	●	●	●	●	●	●	●	●
<b>Antimigraine Agents</b>								
Almotriptan	■	■	■	■	■	■	■	■
Dihydroergotamine	●	●	●	●	●	●	●	●
Eletriptan	●	●	●	●	●	●	●	●
Eptinezumab	◆	◆	◆	◆	◆	◆	◆	◆
Erenumab	◆	◆	◆	◆	◆	◆	◆	◆
Ergotamine	●	●	●	●	●	●	●	●
Fremanezumab	◆	◆	◆	◆	◆	◆	◆	◆
Frovatriptan	◆	◆	■	◆	◆	■	■	■
Galcanezumab	◆	◆	◆	◆	◆	◆	◆	◆
Naratriptan	◆	◆	◆	◆	◆	◆	◆	◆
Pizotifen	◆	◆	■	◆	◆	■	■	■
Rizatriptan	◆	◆	◆	◆	◆	◆	◆	◆
Sumatriptan	◆	◆	◆	◆	◆	◆	◆	◆
Zolmitriptan	■	■	■	■	■	■	■	■
<b>Antiprotozoals</b>								
Amodiaquine	▲	▲	▲	◆	◆	▲	▲	▲
Artemisinin	◆	◆	■	◆	◆	■	■	■
Atovaquone	◆	◆	■	◆	◆	■	■	■
Benznidazole	◆	◆	◆	◆	◆	◆	◆	◆
Chloroquine	◆	◆	■	▲	▲	▲	▲	▲
Diloxanide	◆	◆	◆	◆	◆	◆	◆	◆
Eflornithine	◆	◆	◆	◆	▲	◆	◆	◆
Halofantrine	●	●	●	●	●	●	●	●
Hydroxychloroquine	■	■	■	▲	▲	▲	▲	▲
Lumefantrine	■	■	■	■	■	■	■	■
Mefloquine	■	■	■	■	■	■	■	■
Meglumine antimoniate	■	■	■	■	■	■	■	■
Melarsoprol	◆	◆	◆	◆	◆	◆	◆	◆
Miltefosine	◆	◆	◆	◆	◆	◆	◆	◆
Nifurtimox	◆	◆	◆	◆	◆	◆	◆	◆
Nitazoxanide	◆	◆	◆	◆	◆	◆	◆	◆
Paromomycin	◆	◆	◆	◆	◆	◆	◆	◆
Pentamidine	■	■	■	■	■	■	■	■
Piperazine	■	■	■	■	■	■	■	■
Primaquine	◆	◆	◆	◆	◆	◆	◆	◆
Proguanil	◆	◆	◆	◆	◆	■	■	■
Pyrimethamine	◆	◆	◆	◆	▲	◆	◆	◆
Quinine	■	■	■	■	■	■	■	■
Sodium stibogluconate	◆	◆	◆	◆	◆	◆	◆	◆
Sulfadoxine	◆	◆	◆	◆	▲	◆	◆	◆

**Key to abbreviations**

ATV	Atazanavir alone (Reyataz <sup>®</sup> )	DRV/c /FTAF	Darunavir/cobicistat/ FTC/TAF (Symtuza <sup>®</sup> )
ATV/c	Atazanavir/cobicistat (Evotaz <sup>®</sup> )	DRV/r	Darunavir + Ritonavir (Prezista <sup>®</sup> +Norvir <sup>®</sup> )
ATV/r	Atazanavir + Ritonavir (Reyataz <sup>®</sup> +Norvir <sup>®</sup> )	LPV	Lopinavir (Kaletra <sup>®</sup> )
DRV/c	Darunavir/cobicistat (Rezosta <sup>®</sup> , Prezcoibix <sup>®</sup> )	RTV	Ritonavir (Norvir <sup>®</sup> )

**Key to symbols**

●	These drugs should not be coadministered
■	Potential interaction - may require close monitoring, alteration of drug dosage or timing of administration
▲	Potential interaction likely to be of weak intensity. Additional action/monitoring or dosage adjustment is unlikely to be required
◆	No clinically significant interaction expected

Where advice differs between countries, and/or between boosted and unboosted regimens, the charts reflect the more cautious option.

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# Interactions with Protease Inhibitors

Charts revised 2 November 2023. Full information available at [www.hiv-druginteractions.org](http://www.hiv-druginteractions.org)

Please note that if a drug is not listed it cannot automatically be assumed it is safe to coadminister.

	ATV	ATV/c	ATV/r	DRV/c	DRV/c/FTAF	DRV/r	LPV	RTV
<b>Antipsychotics/Neuroleptics</b>								
Amisulpride	◆	◆	◆	◆	◆	◆	◆	◆
Aripiprazole	◆	◆	◆	◆	◆	◆	◆	◆
Asenapine	◆	◆	◆	▲	▲	◆	◆	◆
Chlorpromazine	◆	◆	◆	▲	▲	◆	◆	◆
Clozapine	◆	◆	◆	◆	◆	◆	◆	◆
Flupentixol (Flupenthixol)	◆	◆	◆	▲	▲	◆	◆	◆
Fluphenazine	◆	◆	◆	▲	▲	◆	◆	◆
Haloperidol	●	●	●	▲	▲	◆	◆	◆
Iloperidone	◆	◆	◆	▲	▲	◆	◆	◆
Levomepromazine	◆	◆	◆	▲	▲	◆	◆	◆
Lurasidone	●	●	●	●	●	●	●	●
Olanzapine	◆	◆	◆	◆	◆	◆	◆	◆
Paliperidone	◆	◆	◆	▲	▲	◆	◆	◆
Perazine	◆	◆	◆	▲	▲	◆	◆	◆
Periciazine	◆	◆	◆	▲	▲	◆	◆	◆
Perphenazine	◆	◆	◆	▲	▲	◆	◆	◆
Pimozide	●	●	●	●	●	●	●	●
Pipotiazine	◆	◆	◆	▲	▲	◆	◆	◆
Quetiapine	●	●	●	●	●	●	●	●
Risperidone	◆	◆	◆	◆	◆	◆	◆	◆
Sulpiride	◆	◆	◆	◆	◆	◆	◆	◆
Thioridazine	●	●	●	◆	◆	◆	◆	◆
Tiapride	◆	◆	◆	◆	◆	◆	◆	◆
Ziprasidone	●	●	●	◆	◆	◆	◆	◆
Zotepine	◆	◆	◆	◆	◆	◆	◆	◆
Zuclopenthixol	◆	◆	◆	◆	◆	◆	◆	◆
<b>Antivirals</b>								
Aciclovir	◆	◆	◆	◆	◆	◆	◆	◆
Adefovir	◆	◆	◆	◆	◆	◆	◆	◆
Amantadine	◆	◆	◆	◆	◆	◆	◆	◆
Briciclovir	◆	◆	◆	◆	◆	◆	◆	◆
Bulevirtide	●	●	●	●	●	●	●	●
Cidofovir	◆	◆	◆	◆	◆	◆	◆	◆
Daclatasvir	◆	◆	◆	◆	◆	◆	◆	◆
Elbasvir/Grazoprevir	●	●	●	●	●	●	●	●
Entecavir	◆	◆	◆	◆	◆	◆	◆	◆
Famciclovir	◆	◆	◆	◆	◆	◆	◆	◆
Favipiravir	◆	◆	◆	◆	◆	◆	◆	◆
Foscarnet	◆	◆	◆	◆	◆	◆	◆	◆
Ganciclovir	◆	◆	◆	◆	◆	◆	◆	◆
Glecaprevir/Pibrentasvir	●	●	●	●	●	●	●	●
Ledipasvir/Sofosbuvir	◆	◆	◆	◆	◆	◆	◆	◆
Letermovir	◆	◆	◆	◆	◆	◆	◆	◆
Maribavir	◆	◆	◆	◆	◆	◆	◆	◆
Molnupiravir	◆	◆	◆	◆	◆	◆	◆	◆
Nirmatrelvir/Ritonavir	◆	◆	◆	◆	◆	◆	◆	◆
Ombitasvir/Paritaprevir/r	◆	◆	◆	◆	◆	◆	◆	◆
Ombitasvir/Paritaprevir/r + Dasabuvir	◆	◆	◆	◆	◆	◆	◆	◆
Oseltamivir	◆	◆	◆	◆	◆	◆	◆	◆
Remdesivir	◆	◆	◆	◆	◆	◆	◆	◆
Ribavirin	◆	◆	◆	◆	◆	◆	◆	◆
Rimantadine	◆	◆	◆	◆	◆	◆	◆	◆
Simeprevir	●	●	●	●	●	●	●	●
Sofosbuvir	◆	◆	◆	◆	◆	◆	◆	◆
Sofosbuvir/Velpatasvir	◆	◆	◆	◆	◆	◆	◆	◆
Sofosbuvir/Velpatasvir/Voxilaprevir	●	●	●	●	●	●	●	●
Sotrovimab	◆	◆	◆	◆	◆	◆	◆	◆
Tecovirimat	▲	▲	▲	◆	◆	◆	◆	◆
Telbivudine	◆	◆	◆	◆	◆	◆	◆	◆
Tenofovir alafenamide (HBV)	◆	◆	◆	◆	◆	◆	◆	◆
Tixagevimab/Cilgavimab	◆	◆	◆	◆	◆	◆	◆	◆
Valaciclovir	◆	◆	◆	◆	◆	◆	◆	◆
Valganciclovir	◆	◆	◆	◆	◆	◆	◆	◆
Zanamivir	◆	◆	◆	◆	◆	◆	◆	◆

	ATV	ATV/c	ATV/r	DRV/c	DRV/c/FTAF	DRV/r	LPV	RTV
<b>Anxiolytics/Hypnotics/Sedatives</b>								
Alprazolam	◆	◆	◆	◆	◆	◆	◆	◆
Bromazepam	▲	▲	▲	▲	▲	▲	▲	▲
Bupirone	◆	◆	◆	◆	◆	◆	◆	◆
Chlordiazepoxide	◆	◆	◆	◆	◆	◆	◆	◆
Clobazam	◆	◆	◆	◆	◆	◆	◆	◆
Clorazepate	◆	◆	◆	◆	◆	◆	◆	◆
Diazepam	◆	◆	◆	◆	◆	◆	◆	◆
Estazolam	◆	◆	◆	◆	◆	◆	◆	◆
Flunitrazepam	◆	◆	◆	◆	◆	◆	◆	◆
Flurazepam	◆	◆	◆	◆	◆	◆	◆	◆
Hydroxyzine	◆	◆	◆	◆	◆	◆	◆	◆
Lorazepam	◆	◆	◆	◆	◆	◆	◆	◆
Lormetazepam	◆	◆	◆	◆	◆	◆	◆	◆
Melatonin	◆	◆	◆	◆	◆	◆	◆	◆
Midazolam (oral)	●	●	●	●	●	●	●	●
Midazolam (parenteral)	◆	◆	◆	◆	◆	◆	◆	◆
Oxazepam	◆	◆	◆	◆	◆	◆	◆	◆
Temazepam	◆	◆	◆	◆	◆	◆	◆	◆
Triazolam	●	●	●	●	●	●	●	●
Zaleplon	▲	▲	▲	▲	▲	▲	▲	▲
Zolpidem	◆	◆	◆	◆	◆	◆	◆	◆
Zopiclone	◆	◆	◆	◆	◆	◆	◆	◆
<b>Beta Blockers</b>								
Atenolol	◆	◆	◆	◆	◆	◆	◆	◆
Bisoprolol	◆	◆	◆	▲	▲	▲	▲	▲
Carvedilol	◆	◆	◆	▲	▲	▲	▲	▲
Metoprolol	◆	◆	◆	▲	▲	▲	▲	▲
Nebivolol	◆	◆	◆	▲	▲	▲	▲	▲
Oxprenolol	◆	◆	◆	▲	▲	▲	▲	▲
Pindolol	◆	◆	◆	▲	▲	▲	▲	▲
Propranolol	◆	◆	◆	▲	▲	▲	▲	▲
Sotalol	◆	◆	◆	▲	▲	▲	▲	▲
Timolol	◆	◆	◆	▲	▲	▲	▲	▲
<b>Bisphosphonates</b>								
Alendronic acid (Alendronate)	◆	◆	◆	◆	◆	◆	◆	◆
Ibandronic acid (Ibandronate)	◆	◆	◆	◆	◆	◆	◆	◆
Risedronic acid (Risedronate)	◆	◆	◆	◆	◆	◆	◆	◆
Zoledronic acid (Zoledronate)	◆	◆	◆	◆	◆	◆	◆	◆
<b>Bronchodilators</b>								
Acidinium bromide	◆	◆	◆	◆	◆	◆	◆	◆
Aminophylline	◆	◆	◆	◆	◆	◆	◆	◆
Formoterol	◆	◆	◆	◆	◆	◆	◆	◆
Glycopyrronium bromide	◆	◆	◆	◆	◆	◆	◆	◆
Indacaterol	◆	◆	◆	◆	◆	◆	◆	◆
Ipratropium bromide	◆	◆	◆	◆	◆	◆	◆	◆
Montelukast	▲	▲	▲	▲	▲	▲	▲	▲
Olodaterol	▲	▲	▲	▲	▲	▲	▲	▲
Roflumilast	▲	▲	▲	▲	▲	▲	▲	▲
Salbutamol	◆	◆	◆	◆	◆	◆	◆	◆
Salmeterol	◆	◆	◆	◆	◆	◆	◆	◆
Terbutaline	◆	◆	◆	◆	◆	◆	◆	◆
Theophylline	◆	◆	◆	◆	◆	◆	◆	◆
Tiotropium bromide	◆	◆	◆	◆	◆	◆	◆	◆
Umeclidinium bromide	▲	▲	▲	▲	▲	▲	▲	▲
Vilanterol	◆	◆	◆	◆	◆	◆	◆	◆
<b>Calcium Channel Blockers</b>								
Amlodipine	◆	◆	◆	◆	◆	◆	◆	◆
Diltiazem	◆	◆	◆	◆	◆	◆	◆	◆
Felodipine	◆	◆	◆	◆	◆	◆	◆	◆
Nicardipine	◆	◆	◆	◆	◆	◆	◆	◆
Nifedipine	◆	◆	◆	◆	◆	◆	◆	◆
Nisoldipine	◆	◆	◆	◆	◆	◆	◆	◆
Nitrendipine	◆	◆	◆	◆	◆	◆	◆	◆
Verapamil	◆	◆	◆	◆	◆	◆	◆	◆

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**Key to abbreviations**

ATV	Atazanavir alone (Reyataz <sup>®</sup> )	DRV/c/FTAF	Darunavir/cobicistat/ FTC/TAF (Symtuza <sup>®</sup> )
ATV/c	Atazanavir/cobicistat (Evotaz <sup>®</sup> )	DRV/r	Darunavir + Ritonavir (Prezista <sup>®</sup> +Norvir <sup>®</sup> )
ATV/r	Atazanavir + Ritonavir (Reyataz <sup>®</sup> +Norvir <sup>®</sup> )	LPV	Lopinavir (Kaletra <sup>®</sup> )
DRV/c	Darunavir/cobicistat (Rezolista <sup>®</sup> , Prezcofix <sup>®</sup> )	RTV	Ritonavir (Norvir <sup>®</sup> )

**Key to symbols**

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▲	Potential interaction - may require close monitoring, alteration of drug dosage or timing of administration
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Where advice differs between countries, and/or between boosted and unboosted regimens, the charts reflect the more cautious option.

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	ATV	ATV/c	ATV/r	DRV/c	DRV/c/FTAF	DRV/r	LPV	RTV
<b>Cancer Therapies</b>								
Abemaciclib	■	■	■	■	■	■	■	■
Abiraterone	▲	▲	▲	■	■	■	▲	■
Acalabrutinib	●	●	●	●	●	●	●	●
Afatinib	■	■	■	■	■	■	■	■
Alectinib	▲	▲	▲	▲	▲	▲	▲	▲
Alemtuzumab	■	■	■	■	■	■	■	■
Alpelisib	■	■	■	■	■	■	■	■
Amivantamab	■	■	■	■	■	■	■	■
Anastrozole	■	■	▲	■	■	▲	▲	▲
Apalutamide	●	●	●	●	●	●	●	●
Asciminib	■	■	■	■	■	■	■	■
Asparaginase	■	■	■	■	■	■	■	■
Atezolizumab	■	■	■	■	■	■	■	■
Avapritinib	●	●	●	●	●	●	●	●
Avelumab	■	■	■	■	■	■	■	■
Axitinib	■	■	■	■	■	■	■	■
Bendamustine	■	■	■	■	■	▲	▲	▲
Bevacizumab	■	■	■	■	■	■	■	■
Bexarotene	●	●	●	●	●	●	●	●
Bicalutamide	▲	▲	▲	▲	▲	▲	▲	▲
Binimetinib	■	■	■	■	■	■	■	■
Bleomycin	■	■	■	■	■	■	■	■
Blinatumomab	■	■	■	■	■	■	■	■
Bortezomib	■	■	■	■	■	■	■	■
Bosutinib	●	●	●	●	●	●	●	●
Brentuximab vedotin	■	■	■	■	■	■	■	■
Brigatinib	■	■	■	■	■	■	■	■
Cabazitaxel	■	■	■	■	■	■	■	■
Cabozantinib	■	■	■	■	■	■	■	■
Capecitabine	■	■	■	■	▲	■	■	■
Capmatinib	▲	▲	▲	▲	▲	▲	▲	▲
Carboplatin	■	■	■	■	■	■	■	■
Carfilzomib	■	■	■	■	■	■	■	■
Cemiplimab	■	■	■	■	■	■	■	■
Ceritinib	●	●	●	●	●	●	●	●
Cetuximab	■	■	■	■	■	■	■	■
Chlorambucil	■	■	■	■	■	■	■	■
Cisplatin	■	■	■	■	■	■	■	■
Cobimetinib	●	●	●	●	●	●	●	●
Crizotinib	●	●	●	●	●	●	●	●
Cyclophosphamide	■	■	■	■	■	■	■	■
Cytarabine	■	■	■	■	■	■	■	■
Dabrafenib	●	●	●	●	●	●	●	●
Dacarbazine	■	■	■	■	■	■	■	■
Dacomitinib	■	■	■	■	■	■	■	■
Dactinomycin	■	■	■	■	■	■	■	■
Daratumumab	■	■	■	■	■	■	■	■
Darolutamide	■	■	■	■	■	■	■	■
Dasatinib	■	■	■	■	■	■	■	■
Daunorubicin	■	■	■	■	■	■	■	■
Docetaxel	■	■	■	■	■	■	■	■
Doxorubicin	■	■	■	■	■	■	■	■
Droloxifene	■	■	■	■	■	■	■	■
Durvalumab	■	■	■	■	■	■	■	■
Duvelisib	■	■	■	■	■	■	■	■
Elotuzumab	■	■	■	■	■	■	■	■
Enasidenib	●	●	●	●	●	●	●	●
Encorafenib	●	●	●	●	●	●	●	●
Enfortumab vedotin	■	■	■	■	■	■	■	■
Entrectinib	●	●	●	●	●	●	●	●
Enzalutamide	●	●	●	●	●	●	●	●
Epirubicin	■	■	■	■	■	■	■	■
Erdafitinib	■	■	■	■	■	■	■	■
Eribulin	■	■	■	■	■	■	■	■
Erlotinib	■	■	■	■	■	■	■	■
Estramustine	■	■	■	■	■	■	■	■
Etoposide	■	■	■	■	■	■	■	■
Everolimus	●	●	●	●	●	●	●	●
Exemestane	■	■	■	■	■	■	■	■
Fedratinib	■	■	■	■	■	■	■	■
Fludarabine	■	■	■	■	■	■	■	■
Fluorouracil	■	■	■	■	▲	■	■	■
Flutamide	■	■	■	■	■	■	■	■
Formestane	■	■	■	■	■	■	■	■
Fulvestrant	■	■	■	■	■	■	■	■
Gefitinib	■	■	■	■	■	■	■	■
Gemcitabine	■	■	■	■	■	■	■	■
Gilteritinib	■	■	■	■	■	■	■	■
Glasdegib	■	■	■	■	■	■	■	■

	ATV	ATV/c	ATV/r	DRV/c	DRV/c/FTAF	DRV/r	LPV	RTV
<b>Cancer Therapies (continued)</b>								
Hydroxycarbamide (Hydroxyurea)	■	■	■	■	■	■	■	■
Ibrutinib	●	●	●	●	●	●	●	●
Idelalisib	■	■	■	■	■	■	■	■
Ifosfamide	■	■	■	■	■	■	■	■
Imatinib	■	■	■	■	■	■	■	■
Infigratinib	●	●	●	●	●	●	●	●
Inotuzumab ozogamicin	■	■	■	■	■	■	■	■
Ipilimumab	■	■	■	■	■	■	■	■
Irinotecan	■	■	■	■	■	■	■	■
Ivosidenib	●	●	●	●	●	●	●	●
Ixazomib	■	■	■	■	■	■	■	■
Lapatinib	■	■	■	■	■	■	■	■
Larotrectinib	●	●	●	●	●	●	●	●
Lenalidomide	■	■	■	■	■	■	■	■
Lenvatinib	■	■	■	■	■	■	■	■
Letrozole	■	■	■	■	■	■	■	■
Lomustine	■	■	■	■	■	■	■	■
Lorlatinib	●	●	●	●	●	●	●	●
Mercaptopurine	■	■	■	■	■	■	■	■
Mesna	■	■	■	■	■	■	■	■
Methotrexate	▲	▲	▲	▲	▲	▲	▲	▲
Midostaurin	■	■	■	■	■	■	■	■
Mitotane	●	●	●	●	●	●	●	●
Mitoxantrone	■	■	■	■	■	■	■	■
Mobocertinib	●	●	●	●	●	●	●	●
Necitumumab	■	■	■	■	■	■	■	■
Neratinib	●	●	●	●	●	●	●	●
Nilotinib	■	■	■	■	■	■	■	■
Nilutamide	▲	▲	▲	■	■	■	■	■
Nintedanib	■	■	■	■	■	■	■	■
Niraparib	■	■	■	■	▲	■	■	■
Nivolumab	■	■	■	■	■	■	■	■
Obinutuzumab	■	■	■	■	■	■	■	■
Ofatumumab	■	■	■	■	■	■	■	■
Olaparib	■	■	■	■	■	■	■	■
Olaratumab	■	■	■	■	■	■	■	■
Osimertinib	■	■	■	■	■	■	■	■
Oxaliplatin	■	■	■	■	■	■	■	■
Paclitaxel	●	●	●	●	●	●	●	●
Palbociclib	■	■	■	■	■	■	■	■
Panitumumab	■	■	■	■	■	■	■	■
Panobinostat	■	■	■	■	■	■	■	■
Pazopanib	■	■	■	■	■	■	■	■
Pembrolizumab	■	■	■	■	■	■	■	■
Pemetrexed	■	■	■	■	■	■	■	■
Pemigatinib	●	●	●	●	●	●	●	●
Pertuzumab	■	■	■	■	■	■	■	■
Pexidartinib	●	●	●	●	●	●	●	●
Polatuzumab vedotin	■	■	■	■	■	■	■	■
Pomalidomide	■	■	■	■	■	■	■	■
Ponatinib	■	■	■	■	■	■	■	■
Pralsetinib	●	●	●	●	●	●	●	●
Procarbazine	■	■	■	■	■	■	■	■
Regorafenib	●	●	●	●	●	●	●	●
Ribociclib	■	■	■	■	■	■	■	■
Rituximab	■	■	■	■	■	■	■	■
Rucaparib	■	■	■	■	■	■	■	■
Ruxolitinib	■	■	■	■	■	■	■	■
Selpercatinib	■	■	■	■	■	■	■	■
Sorafenib	■	■	■	■	■	■	■	■
Sotorasib	●	●	●	●	●	●	●	●
Sunitinib	■	■	■	■	■	■	■	■
Talazoparib	■	■	■	■	■	■	■	■
Tamoxifen	■	■	■	■	■	■	■	■
Tegafur/ Gimeracil/ Oteracil	■	■	■	■	▲	■	■	■
Temsilolimus	●	●	●	●	●	●	●	●
Tivozanib	■	■	■	■	■	■	■	■
Topotecan	■	■	■	■	■	■	■	■
Toremifene	●	●	●	●	●	●	●	●
Trametinib	■	■	■	■	■	■	■	■
Trastuzumab	■	■	■	■	■	■	■	■
Trastuzumab emtansine	■	■	■	■	■	■	■	■
Trifluridine/Tipiracil	■	■	■	■	■	■	■	■
Vemurafenib	●	●	●	●	●	●	●	●
Venetoclax	●	●	●	●	●	●	●	●
Vinblastine	■	■	■	■	■	■	■	■
Vincristine	■	■	■	■	■	■	■	■
Vinorelbine	■	■	■	■	■	■	■	■
Vorinostat	■	■	■	■	■	■	■	■

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**Key to abbreviations**

ATV	Atazanavir alone (Reyataz <sup>®</sup> )	DRV/c /FTAF	Darunavir/cobicistat/ FTC/TAF (Symtuza <sup>®</sup> )
ATV/c	Atazanavir/cobicistat (Evotaz <sup>®</sup> )	DRV/r	Darunavir + Ritonavir (Prezista <sup>®</sup> +Norvir <sup>®</sup> )
ATV/r	Atazanavir + Ritonavir (Reyataz <sup>®</sup> +Norvir <sup>®</sup> )	LPV	Lopinavir (Kaletra <sup>®</sup> )
DRV/c	Darunavir/cobicistat (Rezosta <sup>®</sup> , Prezcoibix <sup>®</sup> )	RTV	Ritonavir (Norvir <sup>®</sup> )

**Key to symbols**

●	These drugs should not be coadministered
■	Potential interaction - may require close monitoring, alteration of drug dosage or timing of administration
▲	Potential interaction likely to be of weak intensity. Additional action/monitoring or dosage adjustment is unlikely to be required
◆	No clinically significant interaction expected

Where advice differs between countries, and/or between boosted and unboosted regimens, the charts reflect the more cautious option.

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# Interactions with Protease Inhibitors

Charts revised 2 November 2023. Full information available at [www.hiv-druginteractions.org](http://www.hiv-druginteractions.org)

Please note that if a drug is not listed it cannot automatically be assumed it is safe to coadminister.

	ATV	ATV/c	ATV/r	DRV/c	DRV/c /FTAF	DRV/r	LPV	RTV
<b>Contraceptives/HRT</b>								
Bazedoxifene	■	■	■	■	■	■	■	■
Chlormadinone (COC)	■	■	▲	■	■	■	■	■
Conjugated estrogens	■	■	■	■	■	■	■	■
Desogestrel (COC)	■	■	▲	■	■	■	■	■
Desogestrel (POP)	▲	▲	▲	▲	▲	▲	▲	▲
Drospirenone (COC)	■	●	■	■	■	■	■	■
Drospirenone (HRT)	■	■	■	■	■	■	■	■
Drospirenone (POP)	■	■	■	■	■	■	■	■
Dydrogesterone (HRT)	■	■	■	■	■	■	■	■
Estradiol	■	■	■	■	■	■	■	■
Ethinylestradiol	■	■	■	■	■	■	■	■
Etonogestrel (implant)	▲	▲	▲	▲	▲	▲	▲	▲
Etonogestrel (vaginal ring)	▲	▲	▲	▲	▲	▲	▲	▲
Gestodene (COC)	■	■	▲	■	■	■	■	■
Levonorgestrel (COC)	■	■	▲	■	■	■	■	■
Levonorgestrel (emergency contraception)	▲	▲	▲	▲	▲	▲	▲	▲
Levonorgestrel (HRT)	■	■	■	■	■	■	■	■
Levonorgestrel (implant)	▲	▲	▲	▲	▲	▲	▲	▲
Levonorgestrel (IUD)	■	■	■	■	■	■	■	■
Levonorgestrel (POP)	▲	▲	▲	▲	▲	▲	▲	▲
Medroxyprogesterone (depot injection)	■	■	■	■	■	■	■	■
Medroxyprogesterone (HRT)	■	■	■	■	■	■	■	■
Norelgestromin (patch)	■	■	▲	■	■	■	■	■
Norethisterone [Norethindrone] (COC)	■	■	▲	■	■	■	■	■
Norethisterone [Norethindrone] (HRT)	■	■	■	■	■	■	■	■
Norethisterone [Norethindrone] (IM depot)	■	■	■	■	■	■	■	■
Norethisterone [Norethindrone] (POP)	▲	▲	▲	▲	▲	▲	▲	▲
Norgestimate (COC)	■	■	▲	■	■	■	■	■
Norgestimate (HRT)	■	■	■	■	■	■	■	■
Norgestrel (COC)	■	■	▲	■	■	■	■	■
Norgestrel (HRT)	■	■	■	■	■	■	■	■
Progesterone (HRT)	■	■	■	■	■	■	■	■
Tibolone (HRT)	■	■	▲	■	■	■	■	■
Ulipristal	▲	▲	▲	▲	▲	▲	▲	▲
<b>Dementia Therapies</b>								
Donepezil	■	■	■	■	■	■	■	■
Galantamine	■	■	■	■	■	■	■	■
Memantine	■	■	■	■	■	■	■	■
Rivastigmine	■	■	■	■	■	■	■	■
<b>Erectile Dysfunctional Agents</b>								
Avanafil	●	●	●	●	●	●	●	●
Sildenafil (Erectile Dysfunction)	■	■	■	■	■	■	■	■
Tadalafil (Erectile Dysfunction)	■	■	■	■	■	■	■	■
Vardenafil	■	■	■	■	■	■	■	■
Yohimbine	■	■	■	■	■	■	■	■
<b>Gastrointestinal Agents</b>								
Alosetron	■	■	■	■	■	■	■	■
Antacids	■	■	■	■	■	■	■	■
Bisacodyl	■	■	■	■	■	■	■	■
Bismuth subsalicylate	■	■	■	■	■	■	■	■
Cimetidine	■	■	■	■	■	■	■	■
Cisapride	●	●	●	●	●	●	●	●
Dexlansoprazole	■	■	■	■	■	■	■	■
Esomeprazole	●	●	●	●	●	●	●	●
Famotidine	■	■	■	■	■	■	■	■
Hyoscine butylbromide	■	■	■	■	■	■	■	■
Ispaghula husk	■	■	■	■	■	■	■	■
Lactulose	■	■	■	■	■	■	■	■
Lansoprazole	●	●	●	●	●	●	●	●
Loperamide	■	■	■	■	■	■	■	■
Macrogol (PEG 3350, PEG 4000)	▲	▲	▲	▲	▲	▲	▲	▲
Mebeverine	■	■	■	■	■	■	■	■
Mesalazine	■	■	■	■	■	■	■	■
Omeprazole	●	●	●	●	●	●	●	●
Pantoprazole	●	●	●	●	●	●	●	●
Prucalopride	■	■	■	■	■	■	■	■
Psyllium husk	■	■	■	■	■	■	■	■
Rabeprazole	●	●	●	●	●	●	●	●
Ranitidine	■	■	■	■	■	■	■	■
Senna	■	■	■	■	■	■	■	■
Sucralfate	■	■	■	■	■	■	■	■

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	ATV	ATV/c	ATV/r	DRV/c	DRV/c /FTAF	DRV/r	LPV	RTV
<b>Gastrointestinal Agents (anti-emetics)</b>								
Aprepitant	■	■	■	■	■	■	■	■
Cyclizine	■	▲	▲	▲	▲	▲	▲	▲
Dolasetron	■	■	■	■	■	■	■	■
Domperidone	●	●	●	●	●	●	●	●
Dronabinol	▲	▲	■	▲	▲	■	■	■
Granisetron	■	■	■	■	■	■	■	■
Hyoscine (Scopolamine)	■	■	■	■	■	■	■	■
Hyoscine hydrobromide	■	■	■	■	■	■	■	■
Metoclopramide	■	▲	▲	■	■	■	■	■
Ondansetron	■	■	■	■	■	■	■	■
Prochlorperazine	■	■	■	■	■	■	■	■
<b>Herbals/Supplements/Vitamins</b>								
African potato	▲	■	■	■	■	■	■	■
Aloe vera	■	■	■	■	■	■	■	■
Ascorbic Acid (vitamin C) [alone]	■	■	■	■	■	■	■	■
Ascorbic Acid [in multivitamins]	■	■	■	■	■	■	■	■
Ashwagandha (Withania somnifera)	■	■	■	■	■	■	■	■
Ayahuasca	■	■	■	■	■	■	■	■
Black cohosh	■	■	■	■	■	■	■	■
Calcium supplements	■	■	■	■	■	■	■	■
Cat's claw (Uncaria tomentosa)	■	■	■	■	■	■	■	■
Colecalciferol (vitamin D3) [alone]	■	■	■	■	■	■	■	■
Colecalciferol [in multivitamins]	■	■	■	■	■	■	■	■
Cubeb pepper (Piper cubeba)	▲	■	■	■	■	■	■	■
Cyanocobalamin [alone]	■	■	■	■	■	■	■	■
Cyanocobalamin [in multivitamins]	■	■	■	■	■	■	■	■
Echinacea	■	■	■	■	■	■	■	■
Eucalyptus globulus	■	■	■	■	■	■	■	■
Ferrous fumarate	■	■	■	■	■	■	■	■
Folic acid [alone]	■	■	■	■	■	■	■	■
Folic acid [in multivitamins]	■	■	■	■	■	■	■	■
Garlic	■	■	■	■	■	■	■	■
Ginger (Zingiber officinale)	▲	■	■	■	■	■	■	■
Ginkgo biloba	■	■	■	■	■	■	■	■
Ginseng (P. ginseng, P. quinquefolius)	■	■	■	■	■	■	■	■
Goldenseal root (Hydrastis canadensis)	■	■	■	■	■	■	■	■
Grapefruit juice	■	■	■	■	■	■	■	■
Green tea extracts (Camellia sinensis)	■	■	■	■	▲	■	■	■
Guggulsterone	■	■	■	■	■	■	■	■
Homeopathic remedies	■	■	■	■	■	■	■	■
Hops (Humulus lupulus)	■	■	■	■	■	■	■	■
Inula racemosa	▲	■	■	■	■	■	■	■
Iodine [alone]	■	■	■	■	■	■	■	■
Iodine [in multivitamins]	■	■	■	■	■	■	■	■
Iron supplements (injection/infusion)	■	■	■	■	■	■	■	■
Iron supplements (oral)	■	■	■	■	■	■	■	■
Liquorice (Glycyrrhiza glabra)	▲	■	■	■	■	■	■	■
Magnesium supplements	■	■	■	■	■	■	■	■
Malabar nut tree	■	■	■	■	■	■	■	■
Menthol	▲	■	■	■	■	■	■	■
Milk thistle (silymarin)	■	■	■	■	■	■	■	■
Mucuna pruriens	■	■	■	■	■	■	■	■
Multivitamins	■	■	■	■	■	■	■	■
Nicotinamide [alone]	■	■	■	■	■	■	■	■
Nicotinamide [in multivitamins]	■	■	■	■	■	■	■	■
Omega-3 fatty acids [in multivitamins]	■	■	■	■	■	■	■	■
Phytomenadione (vitamin K) [alone]	■	■	■	■	■	■	■	■
Phytomenadione [in multivitamins]	■	■	■	■	■	■	■	■
Pyridoxine (vitamin B6) [alone]	■	■	■	■	■	■	■	■
Pyridoxine [in multivitamins]	■	■	■	■	■	■	■	■
Quercetin	■	■	■	■	■	■	■	■
Red yeast rice	●	●	●	●	●	●	●	●
Retinol (vitamin A) [alone]	■	■	■	■	■	■	■	■
Retinol (vitamin A) [in multivitamins]	■	■	■	■	■	■	■	■
Riboflavin (vitamin B2) [alone]	■	■	■	■	■	■	■	■
Riboflavin [in multivitamins]	■	■	■	■	■	■	■	■
Saw palmetto (Serenoa repens)	■	■	■	■	■	■	■	■
Seville orange juice	■	■	■	■	■	■	■	■
St John's Wort	●	●	●	●	●	●	●	●
Thiamine (vitamin B1) [alone]	■	■	■	■	■	■	■	■
Thiamine [in multivitamins]	■	■	■	■	■	■	■	■
Tocopherol (vitamin E) [alone]	■	■	■	■	■	■	■	■
Tocopherol (vitamin E) [in multivitamins]	■	■	■	■	■	■	■	■
Turmeric (Curcuma longa)	■	■	■	■	▲	■	■	■
Valerian	■	■	■	■	■	■	■	■
Zinc	■	■	■	■	■	■	■	■

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**Key to symbols**

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	ATV	ATV/c	ATV/r	DRV/c	DRV/c/FTAF	DRV/r	LPV	RTV
<b>Hypertension / Heart Failure Agents</b>								
Aliskiren	●	●	●	●	●	●	●	●
Ambrisentan	■	■	■	■	■	■	■	■
Amiloride	◆	◆	◆	◆	◆	◆	◆	◆
Azilsartan	◆	◆	▲	◆	◆	▲	▲	▲
Benazepril	■	■	■	◆	◆	◆	◆	◆
Bendroflumethiazide	◆	◆	◆	◆	◆	◆	◆	◆
Bosentan	●	■	■	■	■	■	■	■
Bumetanide	◆	◆	◆	◆	◆	◆	◆	◆
Candesartan	◆	◆	◆	◆	◆	◆	◆	◆
Captopril	◆	◆	◆	◆	◆	◆	◆	◆
Chlortalidone	◆	◆	◆	◆	◆	◆	◆	◆
Cilazapril	◆	◆	◆	◆	◆	◆	◆	◆
Clonidine	◆	◆	◆	◆	◆	◆	◆	◆
Dopamine	◆	◆	◆	◆	◆	◆	◆	◆
Doxazosin	■	■	■	■	■	■	■	■
Enalapril	◆	◆	◆	◆	◆	◆	◆	◆
Eplerenone	●	●	●	●	●	●	●	●
Epoprostenol	◆	◆	◆	◆	◆	◆	◆	◆
Eprosartan	◆	◆	◆	◆	◆	◆	◆	◆
Fosinopril	◆	◆	▲	◆	◆	▲	▲	▲
Furosemide	◆	◆	◆	◆	◆	◆	◆	◆
Hydralazine	◆	◆	◆	◆	◆	◆	◆	◆
Hydrochlorothiazide	◆	◆	◆	◆	◆	◆	◆	◆
Iloprost	◆	◆	◆	◆	◆	◆	◆	◆
Indapamide	■	■	■	■	■	■	■	■
Irbesartan	◆	◆	▲	◆	◆	▲	▲	▲
Isosorbide dinitrate	■	■	■	■	■	■	■	■
Ivabradine	●	●	●	●	●	●	●	●
Labetalol	■	■	■	◆	◆	■	■	■
Lacidipine	■	■	■	■	■	■	■	■
Lercanidipine	●	●	●	●	●	●	●	●
Lisinopril	◆	◆	◆	◆	◆	◆	◆	◆
Losartan	◆	◆	▲	◆	◆	▲	▲	▲
Macitentan	■	■	■	■	■	■	■	■
Methyldopa	◆	◆	◆	◆	◆	◆	◆	◆
Metolazone	◆	◆	◆	◆	◆	◆	◆	◆
Midodrine	◆	▲	▲	▲	▲	▲	▲	▲
Minoxidil	■	▲	▲	■	■	■	■	■
Moxonidine	◆	◆	◆	◆	◆	◆	◆	◆
Olmesartan	◆	◆	◆	◆	◆	◆	◆	◆
Perindopril	◆	◆	◆	◆	◆	◆	◆	◆
Prazosin	■	■	■	■	■	■	■	■
Quinapril	◆	◆	◆	◆	◆	◆	◆	◆
Ramipril	◆	◆	◆	◆	◆	◆	◆	◆
Ranolazine	●	●	●	●	●	●	●	●
Riociguat	■	■	■	■	■	■	■	■
Sacubitril	■	■	■	■	■	■	■	■
Selexipaq	◆	◆	◆	◆	◆	◆	◆	◆
Sildenafil (PAH)	●	●	●	●	●	●	●	●
Sodium nitroprusside	◆	◆	◆	◆	◆	◆	◆	◆
Spirolactone	◆	◆	◆	◆	◆	◆	◆	◆
Tadalafil (PAH)	■	■	■	■	■	■	■	■
Telmisartan	◆	◆	◆	◆	◆	◆	◆	◆
Terazosin	■	■	■	■	■	■	■	■
Torasemide	◆	◆	▲	◆	◆	▲	▲	▲
Trandolapril	◆	◆	◆	◆	◆	◆	◆	◆
Treprostinil	◆	◆	▲	◆	◆	▲	▲	▲
Triamterene	◆	◆	◆	◆	◆	◆	◆	◆
Valsartan	■	■	■	■	■	■	■	■
Xipamide	◆	◆	◆	◆	◆	◆	◆	◆
<b>Illicit/Recreational</b>								
Alcohol	◆	◆	◆	◆	◆	◆	◆	◆
Amphetamine	■	■	■	■	■	■	■	■
Cannabis	■	■	■	▲	▲	■	■	■
Cocaine	■	■	■	■	■	■	■	■
Ecstasy (MDMA)	▲	■	■	■	■	■	■	■
GHB (Gamma-hydroxybutyrate)	◆	◆	◆	◆	◆	◆	◆	◆
Heroin	■	■	■	■	■	■	■	■
LSD (Lysergic acid diethylamide)	■	■	■	■	■	■	■	■
Mephedrone	▲	■	■	■	■	■	■	■
Methamphetamine	▲	■	■	■	■	■	■	■
Phencyclidine (PCP)	■	■	■	■	■	■	■	■
Poppers (Amyl nitrate)	◆	◆	◆	◆	◆	◆	◆	◆

	ATV	ATV/c	ATV/r	DRV/c	DRV/c/FTAF	DRV/r	LPV	RTV
<b>Immune Modulators</b>								
Interferon alpha	◆	◆	◆	◆	■	◆	◆	◆
Interleukin 2 (Aldesleukin)	◆	◆	◆	◆	◆	◆	◆	◆
Peginterferon alfa-2a	◆	◆	◆	◆	■	◆	◆	◆
Peginterferon alfa-2b	◆	◆	◆	◆	◆	◆	◆	◆
<b>Immunosuppressants</b>								
Abatacept	◆	◆	◆	◆	◆	◆	◆	◆
Abrocitinib	◆	◆	■	◆	◆	■	■	■
Adalimumab	◆	◆	◆	◆	◆	◆	◆	◆
Anakinra	◆	◆	◆	◆	◆	◆	◆	◆
Anti-thymocyte globulin	◆	◆	◆	◆	◆	◆	◆	◆
Apremilast	◆	◆	◆	◆	◆	◆	◆	◆
Azathioprine	◆	◆	◆	◆	◆	◆	◆	◆
Baricitinib	◆	◆	◆	◆	◆	◆	◆	◆
Basiliximab	◆	◆	◆	◆	◆	◆	◆	◆
Belatacept	◆	◆	◆	◆	◆	◆	◆	◆
Belimumab	◆	◆	◆	◆	◆	◆	◆	◆
Canakinumab	◆	◆	◆	◆	◆	◆	◆	◆
Certolizumab pegol	◆	◆	◆	◆	◆	◆	◆	◆
Ciclosporin	■	■	■	■	■	■	■	■
Etanercept	◆	◆	◆	◆	◆	◆	◆	◆
Golimumab	◆	◆	◆	◆	◆	◆	◆	◆
Infliximab	◆	◆	◆	◆	◆	◆	◆	◆
Ixekizumab	◆	◆	◆	◆	◆	◆	◆	◆
Leflunomide	◆	◆	◆	◆	◆	◆	◆	◆
Mycophenolate	◆	◆	■	◆	◆	■	■	■
Risankizumab	◆	◆	◆	◆	◆	◆	◆	◆
Sarilumab	◆	◆	◆	◆	◆	◆	◆	◆
Secukinumab	◆	◆	◆	◆	◆	◆	◆	◆
Sirolimus	●	●	●	●	●	●	●	●
Tacrolimus	■	■	■	■	■	■	■	■
Tocilizumab	◆	◆	◆	◆	◆	◆	◆	◆
Tofacitinib	■	■	■	■	■	■	■	■
Ustekinumab	◆	◆	◆	◆	◆	◆	◆	◆
Vedolizumab	◆	◆	◆	◆	◆	◆	◆	◆
<b>Lipid Lowering Agents</b>								
Alirocumab	◆	◆	◆	◆	◆	◆	◆	◆
Atorvastatin	■	■	■	■	■	■	■	■
Bempedoic acid	◆	◆	▲	◆	◆	▲	▲	▲
Bezafibrate	◆	◆	◆	◆	◆	◆	◆	◆
Clofibrate	◆	◆	◆	◆	◆	◆	◆	◆
Evolocumab	◆	◆	◆	◆	◆	◆	◆	◆
Ezetimibe	■	■	■	▲	▲	▲	▲	▲
Fenofibrate	◆	◆	◆	◆	◆	◆	◆	◆
Fish oils	◆	◆	◆	◆	◆	◆	◆	◆
Fluvastatin	▲	▲	▲	▲	▲	▲	▲	▲
Gemfibrozil	◆	◆	▲	◆	◆	▲	▲	▲
Icosapent ethyl	◆	◆	◆	◆	◆	◆	◆	◆
Lomitapide	●	●	●	●	●	●	●	●
Lovastatin	●	●	●	●	●	●	●	●
Omega-3 fatty acids	◆	◆	◆	◆	◆	◆	◆	◆
Pitavastatin	▲	▲	▲	▲	▲	▲	▲	▲
Pravastatin	■	■	■	■	■	■	■	■
Rosuvastatin	■	■	■	■	■	■	■	■
Simvastatin	●	●	●	●	●	●	●	●

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**Key to abbreviations**

ATV	Atazanavir alone (Reyataz <sup>®</sup> )	DRV/c/FTAF	Darunavir/cobicistat/ FTC/TAF (Symtuza <sup>®</sup> )
ATV/c	Atazanavir/cobicistat (Evotaz <sup>®</sup> )	DRV/r	Darunavir + Ritonavir (Prezista <sup>®</sup> +Norvir <sup>®</sup> )
ATV/r	Atazanavir + Ritonavir (Reyataz <sup>®</sup> +Norvir <sup>®</sup> )	LPV	Lopinavir (Kaletra <sup>®</sup> )
DRV/c	Darunavir/cobicistat (Rezolsta <sup>®</sup> , Prezcofix <sup>®</sup> )	RTV	Ritonavir (Norvir <sup>®</sup> )

**Key to symbols**

●	These drugs should not be coadministered
■	Potential interaction - may require close monitoring, alteration of drug dosage or timing of administration
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◆	No clinically significant interaction expected

Where advice differs between countries, and/or between boosted and unboosted regimens, the charts reflect the more cautious option.

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# Interactions with Protease Inhibitors

Charts revised 2 November 2023. Full information available at [www.hiv-druginteractions.org](http://www.hiv-druginteractions.org)

Please note that if a drug is not listed it cannot automatically be assumed it is safe to coadminister.

	ATV	ATV/c	ATV/r	DRV/c	DRV/c/FTAF	DRV/r	LPV	RTV
<b>Other</b>								
Acamprosate	◆	◆	◆	▲	◆	◆	◆	◆
Acetazolamide	◆	◆	◆	◆	◆	◆	◆	◆
Acitretin	◆	◆	◆	◆	◆	◆	◆	◆
Adrenaline (Epinephrine)	◆	◆	◆	◆	◆	◆	◆	◆
Alfuzosin	●	●	●	●	●	●	●	●
Allopurinol	◆	◆	◆	◆	◆	◆	◆	◆
Atomoxetine	■	■	■	▲	▲	▲	■	▲
Atropine	◆	◆	◆	◆	◆	◆	◆	◆
Baclofen	◆	◆	◆	◆	◆	◆	◆	◆
Betahistine	◆	◆	◆	◆	◆	◆	◆	◆
Biperiden	◆	◆	◆	◆	◆	◆	◆	◆
Brimonidine	◆	◆	◆	◆	◆	◆	◆	◆
Cabergoline (lactation suppression)	◆	◆	◆	◆	◆	◆	◆	◆
Caffeine citrate	◆	◆	◆	◆	◆	◆	◆	◆
Calcitonin	◆	◆	◆	◆	◆	◆	◆	◆
Calcium folinate	◆	◆	◆	◆	◆	◆	◆	◆
Cannabidiol (CBD)	■	■	■	■	■	■	■	■
Carbamazole	◆	◆	◆	◆	◆	◆	◆	◆
Cinacalcet	◆	◆	◆	◆	◆	◆	◆	◆
Clomifene	◆	▲	▲	▲	▲	▲	▲	▲
Colchicine	◆	◆	◆	◆	◆	◆	◆	◆
Colestyramine (Cholestyramine)	▲	▲	▲	▲	▲	▲	▲	▲
Cyproterone acetate	■	■	■	■	■	■	■	■
Dapoxetine	●	●	●	●	●	●	●	●
Deferasirox	◆	◆	◆	◆	◆	◆	◆	◆
Denosumab	◆	◆	◆	◆	◆	◆	◆	◆
Desmopressin	◆	◆	◆	◆	◆	◆	◆	◆
Disulfiram	■	■	■	■	■	■	■	■
Dupilumab	◆	◆	◆	◆	◆	◆	◆	◆
Dutasteride	■	■	■	■	■	■	■	■
Eltrombopag	◆	◆	◆	◆	◆	◆	◆	◆
Fampridine (Dalfampridine)	◆	◆	◆	◆	◆	◆	◆	◆
Figlirastim	◆	◆	◆	◆	◆	◆	◆	◆
Finasteride	◆	◆	◆	◆	◆	◆	◆	◆
Flibanserin	●	●	●	●	●	●	●	●
Fostamatinib	■	■	■	■	■	■	■	■
Glucose monohydrate (IV)	◆	◆	◆	◆	◆	◆	◆	◆
Glycerol trinitrate (Nitroglycerin)	◆	◆	◆	◆	◆	◆	◆	◆
Goserelin	▲	▲	▲	◆	◆	◆	▲	◆
Isosorbide mononitrate	■	■	■	■	■	■	■	■
Isotretinoin	■	■	■	■	■	■	■	■
Leuprorelin	▲	▲	▲	◆	◆	◆	▲	◆
Levothyroxine	◆	◆	◆	◆	◆	◆	◆	◆
Lisdexamfetamine	■	■	■	■	■	■	■	■
Mannitol	◆	◆	◆	◆	◆	◆	◆	◆
Medroxyprogesterone	■	■	■	■	■	■	■	■
Methylergometrine (Methylergonovine)	●	●	●	●	●	●	●	●
Methylphenidate	◆	◆	◆	◆	◆	◆	◆	◆
Minoxidil (topical)	◆	◆	◆	◆	◆	◆	◆	◆
Modafinil	■	■	■	■	■	■	■	■
Naftidrofuryl	◆	◆	◆	◆	◆	◆	◆	◆
Naloxone	◆	◆	◆	◆	◆	◆	◆	◆
Naltrexone	◆	◆	◆	◆	◆	◆	◆	◆
Neostigmine	◆	◆	◆	◆	◆	◆	◆	◆
Nicorandil	◆	◆	◆	◆	◆	◆	◆	◆
Nicotine	◆	◆	◆	◆	◆	◆	◆	◆
Octreotide	■	■	■	■	■	■	■	■
Orlistat	▲	▲	▲	▲	▲	▲	▲	▲
Penicillamine	◆	◆	◆	◆	◆	◆	◆	◆
Pentoxifylline	◆	◆	◆	◆	◆	◆	◆	◆
Pilocarpine	◆	◆	◆	◆	◆	◆	◆	◆
Potassium	◆	◆	◆	◆	◆	◆	◆	◆
Probenecid	◆	◆	◆	◆	◆	◆	◆	◆
Propylthiouracil	◆	◆	◆	◆	◆	◆	◆	◆
Protamine sulphate	◆	◆	◆	◆	◆	◆	◆	◆
Pyridostigmine	◆	◆	◆	◆	▲	◆	◆	◆
Raloxifene	■	■	▲	◆	◆	◆	◆	◆
Ruxolitinib (topical)	◆	◆	◆	◆	◆	◆	◆	◆
Sevelamer	▲	▲	▲	▲	▲	▲	▲	▲
Strontium ranelate	▲	▲	▲	▲	▲	▲	▲	▲
Sulfasalazine	■	■	■	■	■	■	■	■
Tamsulosin	■	■	■	■	■	■	■	■
Terlipressin	■	■	■	■	■	■	■	■
Tesamorelin	◆	◆	◆	◆	◆	◆	◆	◆
Thalidomide	◆	◆	◆	◆	◆	◆	◆	◆
Tranexamic acid	◆	◆	◆	◆	◆	◆	◆	◆
Triptorelin	◆	◆	◆	◆	◆	◆	◆	◆
Ursodeoxycholic acid	◆	◆	◆	◆	◆	◆	◆	◆
Varenicline	◆	◆	◆	◆	◆	◆	◆	◆

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	ATV	ATV/c	ATV/r	DRV/c	DRV/c/FTAF	DRV/r	LPV	RTV
<b>Overactive Bladder Agents</b>								
Darifenacin	●	●	●	●	●	●	●	●
Fesoterodine	■	■	■	■	■	■	■	■
Mirabegron	▲	▲	▲	◆	◆	◆	▲	◆
Oxybutynin	■	■	■	■	■	■	■	■
Silodosin	●	●	●	●	●	●	●	●
Solifenacin	■	■	■	■	■	■	■	■
Tolterodine	■	■	■	■	■	■	■	■
Trospium	◆	◆	◆	◆	◆	◆	◆	◆
<b>Oxytocics</b>								
Ergometrine (Ergonovine)	●	●	●	●	●	●	●	●
Mifepristone	▲	▲	▲	▲	▲	▲	▲	▲
Misoprostol	◆	◆	◆	◆	◆	◆	◆	◆
Oxytocin	■	■	■	◆	◆	◆	■	◆
<b>Parkinsonism Agents</b>								
Apomorphine	■	■	■	◆	◆	▲	■	▲
Benserazide	◆	◆	◆	◆	◆	◆	◆	◆
Benzatropine (Benztropine)	◆	◆	◆	◆	◆	◆	◆	◆
Cabergoline (Parkinson's)	■	■	■	■	■	■	■	■
Carbidopa	◆	◆	◆	◆	◆	◆	◆	◆
Levodopa	■	■	■	■	■	■	■	■
Orphenadrine	▲	▲	▲	▲	▲	▲	▲	▲
Pramipexole	◆	◆	◆	◆	◆	◆	◆	◆
Procyclidine	▲	▲	▲	▲	▲	▲	▲	▲
Rasagiline	◆	◆	■	◆	◆	◆	■	■
Ropinirole	◆	◆	■	◆	◆	◆	■	■
<b>Steroids</b>								
Beclometasone	◆	◆	◆	◆	◆	◆	◆	◆
Betamethasone	■	■	■	■	■	■	■	■
Budesonide	●	●	●	●	●	●	●	●
Ciclesonide	■	■	■	■	■	■	■	■
Clobetasol	■	■	■	■	■	■	■	■
Dexamethasone (doses >16 mg)	■	■	■	■	■	■	■	■
Dexamethasone (low dose; ≤16 mg)	■	■	■	■	■	■	■	■
Fludrocortisone	■	■	■	■	■	■	■	■
Flunisolide	■	■	■	■	■	■	■	■
Fluocinolone	■	■	■	■	■	■	■	■
Fluticasone	●	●	●	●	●	●	●	●
Hydrocortisone (oral)	■	■	■	■	■	■	■	■
Hydrocortisone (topical)	◆	◆	◆	◆	◆	◆	◆	◆
Megestrol acetate	■	■	■	■	■	■	■	■
Methylprednisolone	■	■	■	■	■	■	■	■
Mometasone	●	●	●	●	●	●	●	●
Nandrolone	◆	◆	◆	◆	◆	◆	◆	◆
Oxandrolone	◆	◆	◆	◆	◆	◆	◆	◆
Prednisolone	■	■	■	■	■	■	■	■
Prednisone	■	■	■	■	■	■	■	■
Stanozolol	■	■	■	■	■	■	■	■
Testosterone	■	■	■	■	■	■	■	■
Triamcinolone	●	●	●	●	●	●	●	●

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