

Interactions with NRTIs

Charts revised September 2020. Full information available at www.hiv-druginteractions.org

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

	ABC	ddl	FTC	F/TAF	F/TDF	3TC	d4T	TDF	ZDV
Anaesthetics & Muscle Relaxants									
Alcuronium	◆	◆	◆	◆	◆	◆	◆	◆	◆
Bupivacaine	◆	◆	◆	◆	◆	◆	◆	◆	◆
Cisatracurium	◆	◆	◆	◆	◆	◆	◆	◆	◆
Desflurane	◆	◆	◆	◆	◆	◆	◆	◆	◆
Dexmedetomidine	◆	◆	◆	◆	◆	◆	◆	◆	◆
Enflurane	◆	◆	◆	◆	◆	◆	◆	◆	◆
Ephedrine	◆	◆	◆	◆	◆	◆	◆	◆	◆
Etidocaine	◆	◆	◆	◆	◆	◆	◆	◆	◆
Halothane	◆	◆	◆	◆	◆	◆	◆	◆	◆
Isoflurane	◆	◆	◆	◆	◆	◆	◆	◆	◆
Ketamine	◆	◆	◆	◆	◆	◆	◆	◆	◆
Minaxolone	◆	◆	◆	◆	◆	◆	◆	◆	◆
Nitrous oxide	◆	◆	◆	◆	◆	◆	◆	◆	◆
Propofol	◆	◆	◆	◆	◆	◆	◆	◆	◆
Rocuronium	◆	◆	◆	◆	◆	◆	◆	◆	◆
Sevoflurane	◆	◆	◆	◆	◆	◆	◆	◆	◆
Sufentanil	◆	◆	◆	◆	◆	◆	◆	◆	◆
Suxamethonium (succinylcholine)	◆	◆	◆	◆	◆	◆	◆	◆	◆
Tetracaine	◆	◆	◆	◆	◆	◆	◆	◆	◆
Thiopental	◆	◆	◆	◆	◆	◆	◆	◆	◆
Tizanidine	◆	◆	◆	◆	◆	◆	◆	◆	◆
Vecuronium	◆	◆	◆	◆	◆	◆	◆	◆	◆
Analgesics									
Alfentanil	◆	◆	◆	◆	◆	◆	◆	◆	◆
Aspirin	◆	◆	◆	◆	◆	◆	◆	◆	◆
Buprenorphine	◆	◆	◆	◆	◆	◆	◆	◆	◆
Celecoxib	◆	◆	◆	◆	◆	◆	◆	◆	◆
Codeine	◆	◆	◆	◆	◆	◆	◆	◆	◆
Dextropropoxyphene	◆	◆	◆	◆	◆	◆	◆	◆	◆
Diamorphine (diacetylmorphine)	◆	◆	◆	◆	◆	◆	◆	◆	◆
Diclofenac	◆	◆	◆	◆	◆	◆	◆	◆	◆
Dihydrocodeine	◆	◆	◆	◆	◆	◆	◆	◆	◆
Fentanyl	◆	◆	◆	◆	◆	◆	◆	◆	◆
Hydrocodone	◆	◆	◆	◆	◆	◆	◆	◆	◆
Hydromorphone	◆	◆	◆	◆	◆	◆	◆	◆	◆
Ibuprofen	◆	◆	◆	◆	◆	◆	◆	◆	◆
Mefenamic acid	◆	◆	◆	◆	◆	◆	◆	◆	◆
Methadone	◆	◆	◆	◆	◆	◆	◆	◆	◆
Morphine	◆	◆	◆	◆	◆	◆	◆	◆	◆
Naproxen	◆	◆	◆	◆	◆	◆	◆	◆	◆
Nimesulide	◆	◆	◆	◆	◆	◆	◆	◆	◆
Oxycodone	◆	◆	◆	◆	◆	◆	◆	◆	◆
Paracetamol (Acetaminophen)	◆	◆	◆	◆	◆	◆	◆	◆	◆
Pethidine (Meperidine)	◆	◆	◆	◆	◆	◆	◆	◆	◆
Piroxicam	◆	◆	◆	◆	◆	◆	◆	◆	◆
Tapentadol	◆	◆	◆	◆	◆	◆	◆	◆	◆
Tramadol	◆	◆	◆	◆	◆	◆	◆	◆	◆
Anthelmintics									
Albendazole	◆	◆	◆	◆	◆	◆	◆	◆	◆
Diethylcarbamazine	◆	◆	◆	◆	◆	◆	◆	◆	◆
Ivermectin	◆	◆	◆	◆	◆	◆	◆	◆	◆
Levamisole (Ergamisol)	◆	◆	◆	◆	◆	◆	◆	◆	◆
Mebendazole	◆	◆	◆	◆	◆	◆	◆	◆	◆
Nicosamide	◆	◆	◆	◆	◆	◆	◆	◆	◆
Oxamniquine	◆	◆	◆	◆	◆	◆	◆	◆	◆
Praziquantel	◆	◆	◆	◆	◆	◆	◆	◆	◆
Pyrantel	◆	◆	◆	◆	◆	◆	◆	◆	◆
Suramin sodium	◆	◆	◆	◆	◆	◆	◆	◆	◆
Triclabendazole	◆	◆	◆	◆	◆	◆	◆	◆	◆
Antiarrhythmics									
Amiodarone	◆	◆	◆	◆	◆	◆	◆	◆	◆
Bepidil	◆	◆	◆	◆	◆	◆	◆	◆	◆
Disopyramide	◆	◆	◆	◆	◆	◆	◆	◆	◆
Dofetilide	◆	◆	◆	◆	◆	◆	◆	◆	◆
Flecainide	◆	◆	◆	◆	◆	◆	◆	◆	◆
Lidocaine (Lignocaine)	◆	◆	◆	◆	◆	◆	◆	◆	◆
Mexiletine	◆	◆	◆	◆	◆	◆	◆	◆	◆
Propafenone	◆	◆	◆	◆	◆	◆	◆	◆	◆
Quinidine	◆	◆	◆	◆	◆	◆	◆	◆	◆

For personal use only. Not for distribution.

	ABC	ddl	FTC	F/TAF	F/TDF	3TC	d4T	TDF	ZDV
Antibacterials									
Amikacin	◆	◆	◆	◆	◆	◆	◆	◆	◆
Amoxicillin	◆	◆	◆	◆	◆	◆	◆	◆	◆
Ampicillin	◆	◆	◆	◆	◆	◆	◆	◆	◆
Azithromycin	◆	◆	◆	◆	◆	◆	◆	◆	◆
Bedaquiline	◆	◆	◆	◆	◆	◆	◆	◆	◆
Capreomycin	◆	◆	◆	◆	◆	◆	◆	◆	◆
Cefalexin	◆	◆	◆	◆	◆	◆	◆	◆	◆
Cefazolin	◆	◆	◆	◆	◆	◆	◆	◆	◆
Cefixime	◆	◆	◆	◆	◆	◆	◆	◆	◆
Cefotaxime	◆	◆	◆	◆	◆	◆	◆	◆	◆
Ceftazidime	◆	◆	◆	◆	◆	◆	◆	◆	◆
Ceftriaxone	◆	◆	◆	◆	◆	◆	◆	◆	◆
Chloramphenicol	◆	◆	◆	◆	◆	◆	◆	◆	◆
Ciprofloxacin	◆	◆	◆	◆	◆	◆	◆	◆	◆
Clarithromycin	◆	◆	◆	◆	◆	◆	◆	◆	◆
Clavulanic acid	◆	◆	◆	◆	◆	◆	◆	◆	◆
Clindamycin	◆	◆	◆	◆	◆	◆	◆	◆	◆
Clofazimine	◆	◆	◆	◆	◆	◆	◆	◆	◆
Cloxacillin	◆	◆	◆	◆	◆	◆	◆	◆	◆
Cycloserine	◆	◆	◆	◆	◆	◆	◆	◆	◆
Dapsone	◆	◆	◆	◆	◆	◆	◆	◆	◆
Delamanid	◆	◆	◆	◆	◆	◆	◆	◆	◆
Doxycycline	◆	◆	◆	◆	◆	◆	◆	◆	◆
Ertapenem	◆	◆	◆	◆	◆	◆	◆	◆	◆
Erythromycin	◆	◆	◆	◆	◆	◆	◆	◆	◆
Ethambutol	◆	◆	◆	◆	◆	◆	◆	◆	◆
Ethionamide	◆	◆	◆	◆	◆	◆	◆	◆	◆
Flucloxacillin	◆	◆	◆	◆	◆	◆	◆	◆	◆
Gentamicin	◆	◆	◆	◆	◆	◆	◆	◆	◆
Imipenem/Cilastatin	◆	◆	◆	◆	◆	◆	◆	◆	◆
Isoniazid	◆	◆	◆	◆	◆	◆	◆	◆	◆
Kanamycin	◆	◆	◆	◆	◆	◆	◆	◆	◆
Levofloxacin	◆	◆	◆	◆	◆	◆	◆	◆	◆
Linezolid	◆	◆	◆	◆	◆	◆	◆	◆	◆
Meropenem	◆	◆	◆	◆	◆	◆	◆	◆	◆
Metronidazole	◆	◆	◆	◆	◆	◆	◆	◆	◆
Moxifloxacin	◆	◆	◆	◆	◆	◆	◆	◆	◆
Nitrofurantoin	◆	◆	◆	◆	◆	◆	◆	◆	◆
Ofloxacin	◆	◆	◆	◆	◆	◆	◆	◆	◆
Para-aminosalicylic acid	◆	◆	◆	◆	◆	◆	◆	◆	◆
Penicillins	◆	◆	◆	◆	◆	◆	◆	◆	◆
Piperacillin	◆	◆	◆	◆	◆	◆	◆	◆	◆
Pyrazinamide	◆	◆	◆	◆	◆	◆	◆	◆	◆
Rifabutin	◆	◆	◆	◆	◆	◆	◆	◆	◆
Rifampicin	◆	◆	◆	◆	◆	◆	◆	◆	◆
Rifapentine	◆	◆	◆	◆	◆	◆	◆	◆	◆
Rifaximin	◆	◆	◆	◆	◆	◆	◆	◆	◆
Spectinomycin	◆	◆	◆	◆	◆	◆	◆	◆	◆
Streptomycin	◆	◆	◆	◆	◆	◆	◆	◆	◆
Sulfadiazine	◆	◆	◆	◆	◆	◆	◆	◆	◆
Tazobactam	◆	◆	◆	◆	◆	◆	◆	◆	◆
Telithromycin	◆	◆	◆	◆	◆	◆	◆	◆	◆
Tetracyclines	◆	◆	◆	◆	◆	◆	◆	◆	◆
Tinidazole	◆	◆	◆	◆	◆	◆	◆	◆	◆
Trimethoprim/Sulfamethoxazole	◆	◆	◆	◆	◆	◆	◆	◆	◆
Vancomycin	◆	◆	◆	◆	◆	◆	◆	◆	◆
Anti-coagulant, Anti-platelet and Fibrinolytic									
Acenocoumarol	◆	◆	◆	◆	◆	◆	◆	◆	◆
Apixaban	◆	◆	◆	◆	◆	◆	◆	◆	◆
Argatroban	◆	◆	◆	◆	◆	◆	◆	◆	◆
Aspirin (anti-platelet)	◆	◆	◆	◆	◆	◆	◆	◆	◆
Betrixaban	◆	◆	◆	◆	◆	◆	◆	◆	◆
Clopidogrel	◆	◆	◆	◆	◆	◆	◆	◆	◆
Dabigatran	◆	◆	◆	◆	◆	◆	◆	◆	◆
Dalteparin	◆	◆	◆	◆	◆	◆	◆	◆	◆
Dipyridamole	◆	◆	◆	◆	◆	◆	◆	◆	◆
Edoxaban	◆	◆	◆	◆	◆	◆	◆	◆	◆
Eltrombopag	◆	◆	◆	◆	◆	◆	◆	◆	◆
Enoxaparin	◆	◆	◆	◆	◆	◆	◆	◆	◆
Fondaparinux	◆	◆	◆	◆	◆	◆	◆	◆	◆
Heparin	◆	◆	◆	◆	◆	◆	◆	◆	◆
Phenprocoumon	◆	◆	◆	◆	◆	◆	◆	◆	◆
Prasugrel	◆	◆	◆	◆	◆	◆	◆	◆	◆
Rivaroxaban	◆	◆	◆	◆	◆	◆	◆	◆	◆
Streptokinase	◆	◆	◆	◆	◆	◆	◆	◆	◆
Ticagrelor	◆	◆	◆	◆	◆	◆	◆	◆	◆
Warfarin	◆	◆	◆	◆	◆	◆	◆	◆	◆

Key to abbreviations

ABC	Abacavir (Ziagen [®])	3TC	Lamivudine (Epivir [®])
ddl	Didanosine (Videx [®] , Videx-EC [®])	d4T	Stavudine (Zerit [®])
FTC	Emtricitabine (Emtriva [®])	TDF	Tenofovir disoproxil fumarate (Viread [®])
F/TAF	Emtricitabine + Tenofovir alafenamide (Descovy [®])	ZDV	Zidovudine (Retrovir [®])
F/TDF	Emtricitabine + Tenofovir-Df (Truvada [®])		

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.

© Liverpool Drug Interaction Group, University of Liverpool, Pharmacology Research Labs, 1st Floor Block H, 70 Pembroke Place, LIVERPOOL, L69 3GF

We aim to ensure that information is accurate and consistent with current knowledge and practice. However, the University of Liverpool and its servants or agents shall not be responsible or in any way liable for the continued currency of information in this publication whether arising from negligence or otherwise howsoever or for any consequences arising therefrom. The University of Liverpool expressly exclude liability for errors, omissions or inaccuracies to the fullest extent permitted by law.

Interactions with NRTIs

Charts revised September 2020. Full information available at www.hiv-druginteractions.org

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

	ABC	ddl	FTC	F/TAF	F/TFD	3TC	d4T	TDF	ZDV
Anticonvulsants									
Carbamazepine	▲	◆	◆	●	◆	◆	◆	◆	▲
Clonazepam	◆	◆	◆	◆	◆	◆	◆	◆	◆
Eslicarbazepine	◆	◆	◆	◆	◆	◆	◆	◆	◆
Ethosuximide	◆	◆	◆	◆	◆	◆	◆	◆	◆
Gabapentin	◆	■	◆	◆	◆	◆	◆	◆	◆
Lacosamide	◆	◆	◆	◆	◆	◆	◆	◆	◆
Lamotrigine	◆	◆	◆	◆	◆	◆	◆	◆	◆
Levetiracetam	◆	◆	◆	◆	◆	◆	◆	◆	◆
Oxcarbazepine	◆	◆	◆	●	◆	◆	◆	◆	◆
Phenobarbital (Phenobarbitone)	▲	◆	◆	●	◆	◆	◆	◆	■
Phenytoin	▲	◆	◆	●	◆	◆	◆	◆	▲
Pregabalin	◆	◆	◆	◆	◆	◆	◆	◆	◆
Primidone	▲	◆	◆	●	◆	◆	◆	◆	■
Tiagabine	◆	◆	◆	◆	◆	◆	◆	◆	◆
Topiramate	◆	◆	◆	◆	■	◆	◆	■	◆
Valproate (Divalproex)	◆	◆	◆	◆	◆	◆	◆	◆	■
Vigabatrin	◆	◆	◆	◆	◆	◆	◆	◆	◆
Zonisamide	◆	◆	◆	◆	◆	◆	◆	◆	◆
Antidepressants									
Agomelatine	◆	◆	◆	◆	◆	◆	◆	◆	◆
Amitriptyline	◆	◆	◆	◆	◆	◆	◆	◆	◆
Bupropion	◆	◆	◆	◆	◆	◆	◆	◆	◆
Doxepin	◆	◆	◆	◆	◆	◆	◆	◆	◆
Duloxetine	◆	◆	◆	◆	◆	◆	◆	◆	◆
Escitalopram	◆	◆	◆	◆	◆	◆	◆	◆	◆
Clomipramine	◆	◆	◆	◆	◆	◆	◆	◆	◆
Desipramine	◆	◆	◆	◆	◆	◆	◆	◆	◆
Fluoxetine	◆	◆	◆	◆	◆	◆	◆	◆	◆
Fluvoxamine	◆	◆	◆	◆	◆	◆	◆	◆	◆
Imipramine	◆	◆	◆	◆	◆	◆	◆	◆	◆
Lithium	◆	■	◆	■	◆	■	■	◆	◆
Maprotiline	◆	◆	◆	◆	◆	◆	◆	◆	◆
Mianserin	◆	◆	◆	◆	◆	◆	◆	◆	◆
Milnacipran	◆	◆	◆	◆	◆	◆	◆	◆	◆
Mirtazapine	◆	◆	◆	◆	◆	◆	◆	◆	◆
Nefazodone	◆	◆	◆	◆	◆	◆	◆	◆	◆
Nortriptyline	◆	◆	◆	◆	◆	◆	◆	◆	◆
Paroxetine	◆	◆	◆	◆	◆	◆	◆	◆	◆
Phenelzine	◆	◆	◆	◆	◆	◆	◆	◆	◆
Reboxetine	◆	◆	◆	◆	◆	◆	◆	◆	◆
Sertraline	◆	◆	◆	◆	◆	◆	◆	◆	◆
Tranylcypromine	◆	◆	◆	◆	◆	◆	◆	◆	◆
Trazodone	◆	◆	◆	◆	◆	◆	◆	◆	◆
Trimipramine	◆	◆	◆	◆	◆	◆	◆	◆	◆
Venlafaxine	◆	◆	◆	◆	◆	◆	◆	◆	◆
Vortioxetine	◆	◆	◆	◆	◆	◆	◆	◆	◆
Anti-diabetics									
Acarbose	◆	◆	◆	◆	◆	◆	◆	◆	◆
Alogliptin	◆	◆	◆	◆	◆	◆	◆	◆	◆
Canagliflozin	◆	◆	◆	◆	■	◆	◆	■	◆
Dapagliflozin	◆	◆	◆	◆	◆	◆	◆	◆	◆
Dulaglutide	◆	◆	◆	◆	◆	◆	◆	◆	◆
Empagliflozin	◆	◆	◆	◆	■	◆	◆	■	◆
Exenatide	◆	◆	◆	◆	◆	◆	◆	◆	◆
Glibenclamide (Glyburide)	◆	◆	◆	◆	◆	◆	◆	◆	◆
Gliclazide	◆	◆	◆	◆	◆	◆	◆	◆	◆
Glimepiride	◆	◆	◆	◆	◆	◆	◆	◆	◆
Glipizide	◆	◆	◆	◆	◆	◆	◆	◆	◆
Insulin	◆	◆	◆	◆	◆	◆	◆	◆	◆
Linagliptin	◆	◆	◆	◆	◆	◆	◆	◆	◆
Liraglutide	◆	◆	◆	◆	◆	◆	◆	◆	◆
Metformin	◆	◆	◆	◆	◆	◆	◆	◆	◆
Nateglinide	◆	◆	◆	◆	◆	◆	◆	◆	◆
Pioglitazone	◆	◆	◆	◆	◆	◆	◆	◆	◆
Repaglinide	◆	◆	◆	◆	◆	◆	◆	◆	◆
Rosiglitazone	◆	◆	◆	◆	◆	◆	◆	◆	◆
Saxagliptin	◆	◆	◆	◆	◆	◆	◆	◆	◆
Sitagliptin	◆	◆	◆	◆	◆	◆	◆	◆	◆
Tolbutamide	◆	◆	◆	◆	◆	◆	◆	◆	◆
Vildagliptin	◆	◆	◆	◆	◆	◆	◆	◆	◆

For personal use only. Not for distribution.

	ABC	ddl	FTC	F/TAF	F/TFD	3TC	d4T	TDF	ZDV
Antifungals									
Amphotericin B	◆	■	◆	◆	■	◆	■	■	■
Anidulafungin	◆	◆	◆	◆	◆	◆	◆	◆	◆
Caspofungin	◆	◆	◆	◆	◆	◆	◆	◆	◆
Fluconazole	◆	◆	◆	▲	◆	◆	◆	◆	■
Flucytosine	◆	■	■	■	■	■	■	■	■
Griseofulvin	◆	◆	◆	◆	◆	◆	◆	◆	◆
Itraconazole	◆	◆	◆	■	■	◆	◆	■	◆
Ketoconazole	◆	◆	◆	■	■	◆	◆	■	◆
Miconazole	◆	◆	◆	◆	◆	◆	◆	◆	◆
Nystatin	◆	◆	◆	◆	◆	◆	◆	◆	◆
Posaconazole	◆	◆	◆	◆	◆	◆	◆	◆	◆
Terbinafine	◆	◆	◆	◆	◆	◆	◆	◆	◆
Voriconazole	◆	◆	◆	◆	◆	◆	◆	◆	◆
Antihistamines									
Astemizole	◆	◆	◆	◆	◆	◆	◆	◆	◆
Cetirizine	◆	◆	◆	◆	◆	◆	◆	◆	◆
Chlorphenamine	◆	◆	◆	◆	◆	◆	◆	◆	◆
Diphenhydramine	◆	◆	◆	◆	◆	◆	◆	◆	◆
Fexofenadine	◆	◆	◆	◆	◆	◆	◆	◆	◆
Levocetirizine	◆	◆	◆	◆	◆	◆	◆	◆	◆
Loratadine	◆	◆	◆	◆	◆	◆	◆	◆	◆
Promethazine	◆	◆	◆	◆	◆	◆	◆	◆	◆
Terfenadine	◆	◆	◆	◆	◆	◆	◆	◆	◆
Antimigraine Agents									
Almotriptan	◆	◆	◆	◆	◆	◆	◆	◆	◆
Dihydroergotamine	◆	◆	◆	◆	◆	◆	◆	◆	◆
Eletriptan	◆	◆	◆	◆	◆	◆	◆	◆	◆
Ergotamine	◆	◆	◆	◆	◆	◆	◆	◆	◆
Rizatriptan	◆	◆	◆	◆	◆	◆	◆	◆	◆
Sumatriptan	◆	◆	◆	◆	◆	◆	◆	◆	◆
Antiprotozoals									
Amodiaquine	◆	◆	◆	◆	◆	◆	◆	◆	■
Artemisinin	◆	◆	◆	◆	◆	◆	◆	◆	◆
Atovaquone	◆	◆	◆	◆	◆	◆	◆	◆	■
Benznidazole	◆	◆	◆	◆	◆	◆	◆	◆	■
Chloroquine	◆	◆	◆	◆	◆	◆	◆	◆	◆
Diloxanide	◆	◆	◆	◆	◆	◆	◆	◆	◆
Eflornithine	◆	◆	▲	▲	▲	▲	■	▲	■
Halofantrine	◆	◆	◆	◆	◆	◆	◆	◆	◆
Hydroxychloroquine	◆	◆	◆	◆	◆	◆	◆	◆	◆
Lumefantrine	◆	◆	◆	◆	◆	◆	◆	◆	◆
Mefloquine	◆	◆	◆	◆	◆	◆	◆	◆	◆
Meglumine antimoniate	◆	■	◆	◆	■	◆	■	■	◆
Melarsoprol	◆	◆	◆	◆	◆	◆	◆	◆	◆
Miltefosine	◆	◆	◆	◆	◆	◆	◆	◆	◆
Nifurtimox	◆	◆	◆	◆	◆	◆	◆	◆	◆
Paromomycin	◆	■	◆	◆	◆	◆	■	◆	◆
Pentamidine	◆	■	◆	◆	■	◆	■	■	■
Piperazine	◆	◆	◆	◆	◆	◆	◆	◆	◆
Primaquine	◆	◆	◆	◆	◆	◆	◆	◆	■
Proguanil	◆	◆	◆	◆	◆	◆	◆	◆	◆
Pyrimethamine	◆	■	▲	▲	▲	▲	◆	▲	▲
Quinine	◆	◆	◆	◆	◆	◆	◆	◆	◆
Sodium stibogluconate	◆	■	◆	◆	◆	◆	■	◆	■
Sulfadoxine	◆	■	▲	▲	▲	▲	◆	◆	▲
Antipsychotics/Neuroleptics									
Amisulpride	◆	◆	◆	◆	◆	◆	◆	◆	◆
Aripiprazole	◆	◆	◆	◆	◆	◆	◆	◆	◆
Asenapine	◆	◆	◆	◆	◆	◆	◆	◆	◆
Chlorpromazine	◆	■	◆	◆	◆	◆	◆	◆	■
Clozapine	◆	◆	◆	◆	◆	◆	◆	◆	◆
Fluphenazine	◆	◆	◆	◆	◆	◆	◆	◆	■
Haloperidol	◆	◆	◆	◆	◆	◆	◆	◆	◆
Iloperidone	◆	◆	◆	◆	◆	◆	◆	◆	◆
Levomepromazine	◆	◆	◆	◆	◆	◆	◆	◆	◆
Olanzapine	◆	◆	◆	◆	◆	◆	◆	◆	◆
Paliperidone	◆	◆	◆	◆	◆	◆	◆	◆	◆
Perazine	◆	◆	◆	◆	◆	◆	◆	◆	◆
Pericyazine	◆	◆	◆	◆	◆	◆	◆	◆	■
Perphenazine	◆	■	◆	◆	◆	◆	◆	◆	■
Pimozide	◆	◆	◆	◆	◆	◆	◆	◆	◆
Pipotiazine	◆	◆	◆	◆	◆	◆	◆	◆	■
Quetiapine	◆	◆	◆	◆	◆	◆	◆	◆	■
Risperidone	◆	◆	◆	◆	◆	◆	◆	◆	◆
Sulpiride	◆	■	◆	◆	◆	◆	◆	◆	◆
Thioridazine	◆	◆	◆	◆	◆	◆	◆	◆	■
Tiapride	◆	◆	◆	◆	◆	◆	◆	◆	◆
Ziprasidone	◆	◆	◆	◆	◆	◆	◆	◆	◆
Zotepine	◆	◆	◆	◆	◆	◆	◆	◆	◆
Zuclopenthixol	◆	◆	◆	◆	◆	◆	◆	◆	■

Key to abbreviations

ABC	Abacavir (Ziagen [®])	3TC	Lamivudine (Epivir [®])
ddl	Didanosine (Videx [®] , Videx-EC [®])	d4T	Stavudine (Zerit [®])
FTC	Emtricitabine (Emtriva [®])	TDF	Tenofovir disoproxil fumarate (Viread [®])
F/TAF	Emtricitabine + Tenofovir alafenamide (Descovy [®])	ZDV	Zidovudine (Retrovir [®])
F/TFD	Emtricitabine + Tenofovir-DP (Truvada [®])		

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.

© Liverpool Drug Interaction Group, University of Liverpool, Pharmacology Research Labs, 1st Floor Block H, 70 Pembroke Place, LIVERPOOL, L69 3GF

We aim to ensure that information is accurate and consistent with current knowledge and practice. However, the University of Liverpool and its servants or agents shall not be responsible or in any way liable for the continued currency of information in this publication whether arising from negligence or otherwise howsoever or for any consequences arising therefrom. The University of Liverpool expressly exclude liability for errors, omissions or inaccuracies to the fullest extent permitted by law.

Interactions with NRTIs

Charts revised September 2020. Full information available at www.hiv-druginteractions.org

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

	ABC	ddl	FTC	F/TAF	F/TDF	3TC	d4T	TDF	ZDV
Antivirals									
Aciclovir	◆	◆	◆	◆	◆	◆	◆	◆	◆
Adefovir	◆	◆	◆	◆	◆	◆	◆	◆	◆
Amantadine	◆	◆	◆	◆	◆	◆	◆	◆	◆
Cidofovir	◆	◆	◆	◆	◆	◆	◆	◆	◆
Daclatasvir	◆	◆	◆	◆	◆	◆	◆	◆	◆
Elbasvir/Grazoprevir	◆	◆	◆	◆	◆	◆	◆	◆	◆
Entecavir	◆	◆	◆	◆	◆	◆	◆	◆	◆
Famciclovir	◆	◆	◆	◆	◆	◆	◆	◆	◆
Foscarnet	◆	◆	◆	◆	◆	◆	◆	◆	◆
Ganciclovir	◆	◆	◆	◆	◆	◆	◆	◆	◆
Glecaprevir/Pibrentasvir	◆	◆	◆	◆	◆	◆	◆	◆	◆
Ledipasvir/Sofosbuvir	◆	◆	◆	◆	◆	◆	◆	◆	◆
Ombitasvir/Paritaprevir/r	◆	◆	◆	◆	◆	◆	◆	◆	◆
Ombitasvir/Paritaprevir/r + Dasabuvir	◆	◆	◆	◆	◆	◆	◆	◆	◆
Oseltamivir	◆	◆	◆	◆	◆	◆	◆	◆	◆
Ribavirin	◆	◆	◆	◆	◆	◆	◆	◆	◆
Rimantadine	◆	◆	◆	◆	◆	◆	◆	◆	◆
Simeprevir	◆	◆	◆	◆	◆	◆	◆	◆	◆
Sofosbuvir	◆	◆	◆	◆	◆	◆	◆	◆	◆
Sofosbuvir/Velpatasvir	◆	◆	◆	◆	◆	◆	◆	◆	◆
Sofosbuvir/Velpatasvir/Voxilaprevir	◆	◆	◆	◆	◆	◆	◆	◆	◆
Telbivudine	◆	◆	◆	◆	◆	◆	◆	◆	◆
Tenofovir alafenamide (HBV)	◆	◆	◆	◆	◆	◆	◆	◆	◆
Valaciclovir	◆	◆	◆	◆	◆	◆	◆	◆	◆
Zanamivir	◆	◆	◆	◆	◆	◆	◆	◆	◆
Anxiolytics/Hypnotics/ Sedatives									
Alprazolam	◆	◆	◆	◆	◆	◆	◆	◆	◆
Bromazepam	◆	◆	◆	◆	◆	◆	◆	◆	◆
Buspirone	◆	◆	◆	◆	◆	◆	◆	◆	◆
Chlordiazepoxide	◆	◆	◆	◆	◆	◆	◆	◆	◆
Clobazam	◆	◆	◆	◆	◆	◆	◆	◆	◆
Clorazepate	◆	◆	◆	◆	◆	◆	◆	◆	◆
Diazepam	◆	◆	◆	◆	◆	◆	◆	◆	◆
Estazolam	◆	◆	◆	◆	◆	◆	◆	◆	◆
Flunitrazepam	◆	◆	◆	◆	◆	◆	◆	◆	◆
Flurazepam	◆	◆	◆	◆	◆	◆	◆	◆	◆
Hydroxyzine	◆	◆	◆	◆	◆	◆	◆	◆	◆
Lorazepam	◆	◆	◆	◆	◆	◆	◆	◆	◆
Lormetazepam	◆	◆	◆	◆	◆	◆	◆	◆	◆
Midazolam (oral)	◆	◆	◆	◆	◆	◆	◆	◆	◆
Midazolam (parenteral)	◆	◆	◆	◆	◆	◆	◆	◆	◆
Oxazepam	◆	◆	◆	◆	◆	◆	◆	◆	◆
Temazepam	◆	◆	◆	◆	◆	◆	◆	◆	◆
Triazolam	◆	◆	◆	◆	◆	◆	◆	◆	◆
Zaleplon	◆	◆	◆	◆	◆	◆	◆	◆	◆
Zolpidem	◆	◆	◆	◆	◆	◆	◆	◆	◆
Zopiclone	◆	◆	◆	◆	◆	◆	◆	◆	◆
Beta Blockers									
Atenolol	◆	◆	◆	◆	◆	◆	◆	◆	◆
Bisoprolol	◆	◆	◆	◆	◆	◆	◆	◆	◆
Carvedilol	◆	◆	◆	◆	◆	◆	◆	◆	◆
Metoprolol	◆	◆	◆	◆	◆	◆	◆	◆	◆
Nebivolol	◆	◆	◆	◆	◆	◆	◆	◆	◆
Oxprenolol	◆	◆	◆	◆	◆	◆	◆	◆	◆
Pindolol	◆	◆	◆	◆	◆	◆	◆	◆	◆
Propranolol	◆	◆	◆	◆	◆	◆	◆	◆	◆
Timolol	◆	◆	◆	◆	◆	◆	◆	◆	◆
Bronchodilators									
Acclidinium bromide	◆	◆	◆	◆	◆	◆	◆	◆	◆
Aminophylline	◆	◆	◆	◆	◆	◆	◆	◆	◆
Formoterol	◆	◆	◆	◆	◆	◆	◆	◆	◆
Glycopyrronium bromide	◆	◆	◆	◆	◆	◆	◆	◆	◆
Indacaterol	◆	◆	◆	◆	◆	◆	◆	◆	◆
Ipratropium bromide	◆	◆	◆	◆	◆	◆	◆	◆	◆
Montelukast	◆	◆	◆	◆	◆	◆	◆	◆	◆
Olodaterol	◆	◆	◆	◆	◆	◆	◆	◆	◆
Roflumilast	◆	◆	◆	◆	◆	◆	◆	◆	◆
Salbutamol	◆	◆	◆	◆	◆	◆	◆	◆	◆
Salmeterol	◆	◆	◆	◆	◆	◆	◆	◆	◆
Theophylline	◆	◆	◆	◆	◆	◆	◆	◆	◆
Tiotropium bromide	◆	◆	◆	◆	◆	◆	◆	◆	◆
Umeclidinium bromide	◆	◆	◆	◆	◆	◆	◆	◆	◆
Vilanterol	◆	◆	◆	◆	◆	◆	◆	◆	◆

For personal use only. Not for distribution.

	ABC	ddl	FTC	F/TAF	F/TDF	3TC	d4T	TDF	ZDV
Calcium Channel Blockers									
Amlodipine	◆	◆	◆	◆	◆	◆	◆	◆	◆
Diltiazem	◆	◆	◆	◆	◆	◆	◆	◆	◆
Felodipine	◆	◆	◆	◆	◆	◆	◆	◆	◆
Nicardipine	◆	◆	◆	◆	◆	◆	◆	◆	◆
Nifedipine	◆	◆	◆	◆	◆	◆	◆	◆	◆
Nisoldipine	◆	◆	◆	◆	◆	◆	◆	◆	◆
Nitrendipine	◆	◆	◆	◆	◆	◆	◆	◆	◆
Verapamil	◆	◆	◆	◆	◆	◆	◆	◆	◆
Cancer Therapies									
Anastrozole	◆	◆	◆	◆	◆	◆	◆	◆	◆
Asparaginase	◆	◆	◆	◆	◆	◆	◆	◆	◆
Bevacizumab	◆	◆	◆	◆	◆	◆	◆	◆	◆
Bexarotene	◆	◆	◆	◆	◆	◆	◆	◆	◆
Bleomycin	◆	◆	◆	◆	◆	◆	◆	◆	◆
Bortezomib	◆	◆	◆	◆	◆	◆	◆	◆	◆
Capecitabine	◆	◆	◆	◆	◆	◆	◆	◆	◆
Carboplatin	◆	◆	◆	◆	◆	◆	◆	◆	◆
Cetuximab	◆	◆	◆	◆	◆	◆	◆	◆	◆
Chlorambucil	◆	◆	◆	◆	◆	◆	◆	◆	◆
Cisplatin	◆	◆	◆	◆	◆	◆	◆	◆	◆
Cyclophosphamide	◆	◆	◆	◆	◆	◆	◆	◆	◆
Cytarabine	◆	◆	◆	◆	◆	◆	◆	◆	◆
Dacarbazine	◆	◆	◆	◆	◆	◆	◆	◆	◆
Dactinomycin	◆	◆	◆	◆	◆	◆	◆	◆	◆
Dasatinib	◆	◆	◆	◆	◆	◆	◆	◆	◆
Daunorubicin	◆	◆	◆	◆	◆	◆	◆	◆	◆
Docetaxel	◆	◆	◆	◆	◆	◆	◆	◆	◆
Doxorubicin	◆	◆	◆	◆	◆	◆	◆	◆	◆
Droloxifene	◆	◆	◆	◆	◆	◆	◆	◆	◆
Epirubicin	◆	◆	◆	◆	◆	◆	◆	◆	◆
Erlotinib	◆	◆	◆	◆	◆	◆	◆	◆	◆
Estramustine	◆	◆	◆	◆	◆	◆	◆	◆	◆
Etoposide	◆	◆	◆	◆	◆	◆	◆	◆	◆
Everolimus	◆	◆	◆	◆	◆	◆	◆	◆	◆
Exemestane	◆	◆	◆	◆	◆	◆	◆	◆	◆
Fludarabine	◆	◆	◆	◆	◆	◆	◆	◆	◆
Fluorouracil	◆	◆	◆	◆	◆	◆	◆	◆	◆
Formestane	◆	◆	◆	◆	◆	◆	◆	◆	◆
Gefitinib	◆	◆	◆	◆	◆	◆	◆	◆	◆
Gemcitabine	◆	◆	◆	◆	◆	◆	◆	◆	◆
Ifosfamide	◆	◆	◆	◆	◆	◆	◆	◆	◆
Imatinib	◆	◆	◆	◆	◆	◆	◆	◆	◆
Irinotecan	◆	◆	◆	◆	◆	◆	◆	◆	◆
Lapatinib	◆	◆	◆	◆	◆	◆	◆	◆	◆
Lenalidomide	◆	◆	◆	◆	◆	◆	◆	◆	◆
Letrozole	◆	◆	◆	◆	◆	◆	◆	◆	◆
Mercaptopurine	◆	◆	◆	◆	◆	◆	◆	◆	◆
Mesna	◆	◆	◆	◆	◆	◆	◆	◆	◆
Methotrexate	◆	◆	◆	◆	◆	◆	◆	◆	◆
Mitoxantrone	◆	◆	◆	◆	◆	◆	◆	◆	◆
Nilotinib	◆	◆	◆	◆	◆	◆	◆	◆	◆
Oxaliplatin	◆	◆	◆	◆	◆	◆	◆	◆	◆
Paclitaxel	◆	◆	◆	◆	◆	◆	◆	◆	◆
Pazopanib	◆	◆	◆	◆	◆	◆	◆	◆	◆
Procarbazine	◆	◆	◆	◆	◆	◆	◆	◆	◆
Rituximab	◆	◆	◆	◆	◆	◆	◆	◆	◆
Sorafenib	◆	◆	◆	◆	◆	◆	◆	◆	◆
Sunitinib	◆	◆	◆	◆	◆	◆	◆	◆	◆
Tamoxifen	◆	◆	◆	◆	◆	◆	◆	◆	◆
Temsirolimus	◆	◆	◆	◆	◆	◆	◆	◆	◆
Topotecan	◆	◆	◆	◆	◆	◆	◆	◆	◆
Toremifene	◆	◆	◆	◆	◆	◆	◆	◆	◆
Trastuzumab	◆	◆	◆	◆	◆	◆	◆	◆	◆
Trastuzumab emtansine	◆	◆	◆	◆	◆	◆	◆	◆	◆
Vinblastine	◆	◆	◆	◆	◆	◆	◆	◆	◆
Vincristine	◆	◆	◆	◆	◆	◆	◆	◆	◆
Vinorelbine	◆	◆	◆	◆	◆	◆	◆	◆	◆
Vorinostat	◆	◆	◆	◆	◆	◆	◆	◆	◆

Key to abbreviations

ABC	Abacavir (Ziagen [®])	3TC	Lamivudine (Epivir [®])
ddl	Didanosine (Videx [®] , Videx-EC [®])	d4T	Stavudine (Zerit [®])
FTC	Emtricitabine (Emtriva [®])	TDF	Tenofovir disoproxil fumarate (Viread [®])
F/TAF	Emtricitabine + Tenofovir alafenamide (Descovy [®])	ZDV	Zidovudine (Retrovir [®])
F/TDF	Emtricitabine + Tenofovir-DP (Truvada [®])		

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.

© Liverpool Drug Interaction Group, University of Liverpool, Pharmacology Research Labs, 1st Floor Block H, 70 Pembroke Place, LIVERPOOL, L69 3GF

We aim to ensure that information is accurate and consistent with current knowledge and practice. However, the University of Liverpool and its servants or agents shall not be responsible or in any way liable for the continued currency of information in this publication whether arising from negligence or otherwise howsoever or for any consequences arising therefrom. The University of Liverpool expressly exclude liability for errors, omissions or inaccuracies to the fullest extent permitted by law.

Interactions with NRTIs

Charts revised September 2020. Full information available at www.hiv-druginteractions.org

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

	ABC	ddl	FTC	F/TAF	F/TDF	3TC	d4T	TDF	ZDV
Contraceptives/HRT									
Desogestrel (COC)	◆	◆	◆	◆	◆	◆	◆	◆	◆
Desogestrel (POP)	◆	◆	◆	◆	◆	◆	◆	◆	◆
Drospirenone (COC)	◆	◆	◆	◆	◆	◆	◆	◆	◆
Drospirenone (HRT)	◆	◆	◆	◆	◆	◆	◆	◆	◆
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 (oral)	◆	◆	◆	◆	◆	◆	◆	◆	◆
Norelgestromin (patch)	◆	◆	◆	◆	◆	◆	◆	◆	◆
Norethisterone [Norethindrone] (COC)	◆	◆	◆	◆	◆	◆	◆	◆	◆
Norethisterone [Norethindrone] (HRT)	◆	◆	◆	◆	◆	◆	◆	◆	◆
Norethisterone [Norethindrone] (IM depot)	◆	◆	◆	◆	◆	◆	◆	◆	◆
Norethisterone [Norethindrone] (POP)	◆	◆	◆	◆	◆	◆	◆	◆	◆
Norgestimate (COC)	◆	◆	◆	◆	◆	◆	◆	◆	◆
Norgestrel (COC)	◆	◆	◆	◆	◆	◆	◆	◆	◆
Norgestrel (HRT)	◆	◆	◆	◆	◆	◆	◆	◆	◆
Ulipristal	◆	◆	◆	◆	◆	◆	◆	◆	◆
Erectile Dysfunctional Agents									
Avanafil	◆	◆	◆	◆	◆	◆	◆	◆	◆
Sildenafil (Erectile Dysfunction)	◆	◆	◆	◆	◆	◆	◆	◆	◆
Tadalafil (Erectile Dysfunction)	◆	◆	◆	◆	◆	◆	◆	◆	◆
Vardenafil	◆	◆	◆	◆	◆	◆	◆	◆	◆
Gastrointestinal Agents									
Alosetron	◆	◆	◆	◆	◆	◆	◆	◆	◆
Antacids	◆	◆	◆	◆	◆	◆	◆	◆	◆
Bisacodyl	◆	◆	◆	◆	◆	◆	◆	◆	◆
Cimetidine	◆	◆	◆	◆	◆	◆	◆	◆	◆
Cisapride	◆	◆	◆	◆	◆	◆	◆	◆	◆
Dexlansoprazole	◆	◆	◆	◆	◆	◆	◆	◆	◆
Esomeprazole	◆	◆	◆	◆	◆	◆	◆	◆	◆
Famotidine	◆	◆	◆	◆	◆	◆	◆	◆	◆
Lactulose	◆	◆	◆	◆	◆	◆	◆	◆	◆
Lansoprazole	◆	◆	◆	◆	◆	◆	◆	◆	◆
Loperamide	◆	◆	◆	◆	◆	◆	◆	◆	◆
Mesalazine	◆	◆	◆	◆	◆	◆	◆	◆	◆
Omeprazole	◆	◆	◆	◆	◆	◆	◆	◆	◆
Pantoprazole	◆	◆	◆	◆	◆	◆	◆	◆	◆
Prucalopride	◆	◆	◆	◆	◆	◆	◆	◆	◆
Rabeprazole	◆	◆	◆	◆	◆	◆	◆	◆	◆
Ranitidine	◆	◆	◆	◆	◆	◆	◆	◆	◆
Senna	◆	◆	◆	◆	◆	◆	◆	◆	◆
Gastrointestinal Agents (anti-emetics)									
Aprepitant	◆	◆	◆	◆	◆	◆	◆	◆	◆
Dolasetron	◆	◆	◆	◆	◆	◆	◆	◆	◆
Domperidone	◆	◆	◆	◆	◆	◆	◆	◆	◆
Dronabinol	◆	◆	◆	◆	◆	◆	◆	◆	◆
Granisetron	◆	◆	◆	◆	◆	◆	◆	◆	◆
Metoclopramide	◆	◆	◆	◆	◆	◆	◆	◆	◆
Ondansetron	◆	◆	◆	◆	◆	◆	◆	◆	◆
Prochlorperazine	◆	◆	◆	◆	◆	◆	◆	◆	■
Herbals/Supplements/Vitamins									
African potato	◆	◆	◆	■	■	◆	◆	◆	◆
Aloe vera	◆	◆	◆	◆	◆	◆	◆	◆	◆
Ascorbic Acid (vitamin C) [alone]	◆	◆	◆	◆	◆	◆	◆	◆	◆
Ascorbic Acid [in multivitamins]	◆	◆	◆	◆	◆	◆	◆	◆	◆
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	◆	◆	◆	◆	◆	◆	◆	◆	◆
Goldenseal root (Hydrastis canadensis)	◆	◆	◆	◆	◆	◆	◆	◆	◆
Grapefruit juice	◆	◆	◆	◆	◆	◆	◆	◆	◆
Hops (Humulus lupulus)	◆	◆	◆	■	◆	◆	◆	◆	◆

For personal use only. Not for distribution.

	ABC	ddl	FTC	F/TAF	F/TDF	3TC	d4T	TDF	ZDV
Herbals/Supplements/Vitamins (continued)									
Inula racemosa	◆	◆	◆	◆	◆	◆	◆	◆	◆
Iodine [alone]	◆	◆	◆	◆	◆	◆	◆	◆	◆
Iodine [in multivitamins]	◆	◆	◆	◆	◆	◆	◆	◆	◆
Iron supplements	◆	◆	◆	◆	◆	◆	◆	◆	◆
Liquorice (Glycyrrhiza glabra)	◆	◆	◆	▲	■	◆	◆	◆	◆
Magnesium supplements	◆	◆	◆	◆	◆	◆	◆	◆	◆
Malabar nut tree	◆	◆	◆	◆	◆	◆	◆	◆	◆
Menthol	◆	◆	◆	◆	◆	◆	◆	◆	◆
Milk thistle (silymarin)	◆	◆	◆	◆	◆	◆	◆	◆	◆
Multivitamins	◆	◆	◆	◆	◆	◆	◆	◆	◆
Nicotinamide [alone]	◆	◆	◆	◆	◆	◆	◆	◆	◆
Nicotinamide [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	◆	◆	◆	◆	◆	◆	◆	◆	◆
Hypertension / Heart Failure Agents									
Aiskiren	◆	◆	◆	◆	◆	◆	◆	◆	◆
Ambrisentan	◆	◆	◆	◆	◆	◆	◆	◆	◆
Amiloride	◆	◆	◆	◆	◆	▲	◆	◆	◆
Benazepril	◆	◆	◆	◆	◆	◆	◆	◆	◆
Bendroflumethiazide	◆	◆	◆	◆	◆	◆	◆	◆	◆
Bosentan	◆	◆	◆	◆	◆	◆	◆	◆	◆
Candesartan	◆	◆	◆	◆	◆	◆	◆	◆	◆
Captopril	◆	◆	◆	◆	◆	◆	◆	◆	◆
Chlortalidone	◆	◆	◆	◆	◆	◆	◆	◆	◆
Cilazapril	◆	◆	◆	◆	◆	◆	◆	◆	◆
Clonidine	◆	◆	◆	◆	◆	◆	◆	◆	◆
Digoxin	◆	◆	◆	◆	◆	◆	◆	◆	◆
Dopamine	◆	◆	◆	◆	◆	◆	◆	◆	◆
Doxazosin	◆	◆	◆	◆	◆	◆	◆	◆	◆
Enalapril	◆	◆	◆	◆	◆	◆	◆	◆	◆
Eplerenone	◆	◆	◆	◆	◆	◆	◆	◆	◆
Epoprostenol	◆	◆	◆	◆	◆	◆	◆	◆	◆
Eprosartan	◆	◆	◆	◆	◆	◆	◆	◆	◆
Fosinopril	◆	◆	◆	◆	◆	◆	◆	◆	◆
Furosemide	◆	◆	◆	◆	▲	◆	◆	◆	◆
Hydralazine	◆	◆	◆	◆	■	◆	◆	◆	◆
Hydrochlorothiazide	◆	◆	◆	◆	◆	◆	◆	◆	◆
Iloprost	◆	◆	◆	◆	◆	◆	◆	◆	◆
Indapamide	◆	◆	◆	◆	◆	◆	◆	◆	◆
Irbesartan	◆	◆	◆	◆	◆	◆	◆	◆	◆
Isosorbide dinitrate	◆	◆	◆	◆	◆	◆	◆	◆	◆
Ivabradine	◆	◆	◆	◆	◆	◆	◆	◆	◆
Labelalol	◆	◆	◆	◆	◆	◆	◆	◆	◆
Lacidipine	◆	◆	◆	◆	◆	◆	◆	◆	◆
Lercanidipine	◆	◆	◆	◆	◆	◆	◆	◆	◆
Lisinopril	◆	◆	◆	◆	◆	◆	◆	◆	◆
Losartan	◆	◆	◆	◆	◆	◆	◆	◆	◆
Macitentan	◆	◆	◆	◆	◆	◆	◆	◆	◆
Methyldopa	◆	◆	◆	◆	◆	◆	■	◆	◆
Metolazone	◆	◆	◆	◆	◆	◆	◆	◆	◆
Moxonidine	◆	◆	◆	◆	◆	◆	◆	■	◆
Olmesartan	◆	◆	◆	◆	◆	◆	◆	◆	◆
Perindopril	◆	◆	◆	◆	◆	◆	◆	◆	◆
Prazosin	◆	◆	◆	◆	◆	◆	◆	◆	◆
Quinapril	◆	◆	◆	◆	◆	◆	◆	◆	◆
Ramipril	◆	◆	◆	◆	◆	◆	◆	◆	◆
Ranolazine	◆	◆	◆	◆	◆	◆	◆	■	◆
Riociguat	◆	◆	◆	◆	◆	◆	◆	◆	◆
Sacubitril	◆	◆	◆	◆	◆	◆	◆	◆	◆
Selexipag	◆	◆	◆	◆	◆	◆	◆	◆	◆
Sildenafil (PAH)	◆	◆	◆	◆	◆	◆	◆	◆	◆
Sodium nitroprusside	◆	◆	◆	◆	◆	◆	◆	◆	◆
Spiroonolactone	◆	◆	◆	◆	◆	◆	◆	◆	◆
Tadalafil (PAH)	◆	◆	◆	◆	◆	◆	◆	◆	◆
Telmisartan	◆	◆	◆	◆	◆	◆	◆	◆	◆
Terazosin	◆	◆	◆	◆	◆	◆	◆	◆	◆
Torasemide	◆	◆	◆	◆	◆	◆	◆	◆	◆
Trandolapril	◆	◆	◆	◆	◆	◆	◆	◆	◆
Treprostinil	◆	◆	◆	◆	◆	◆	◆	◆	◆
Valsartan	◆	◆	◆	◆	◆	◆	◆	◆	◆
Xipamide	◆	◆	◆	◆	◆	◆	◆	◆	◆

Key to abbreviations

Interactions with NRTIs

Charts revised September 2020. Full information available at www.hiv-druginteractions.org

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

	ABC	ddl	FTC	F/TAF	F/TDF	3TC	d4T	TDF	ZDV
Illicit/Recreational									
Alcohol	◆	◆	◆	◆	◆	◆	◆	◆	◆
Amphetamine	◆	◆	◆	◆	◆	◆	◆	◆	◆
Cannabis	◆	◆	◆	◆	◆	◆	◆	◆	◆
Cocaine	◆	◆	◆	◆	◆	◆	◆	◆	◆
Ecstasy (MDMA)	◆	◆	◆	◆	◆	◆	◆	◆	◆
GHB (Gamma-hydroxybutyrate)	◆	◆	◆	◆	◆	◆	◆	◆	◆
Heroin	◆	◆	◆	◆	◆	◆	◆	◆	◆
LSD (Lysergic acid diethylamide)	◆	◆	◆	◆	◆	◆	◆	◆	◆
Mephedrone	◆	◆	◆	◆	◆	◆	◆	◆	◆
Methamphetamine	◆	◆	◆	◆	◆	◆	◆	◆	◆
Phencyclidine (PCP)	◆	◆	◆	◆	◆	◆	◆	◆	◆
Poppers (Amyl nitrate)	◆	◆	◆	◆	◆	◆	◆	◆	◆
Immune Modulators									
Hydroxyurea (Hydroxycarbamide)	◆	◆	◆	◆	◆	◆	◆	◆	◆
Interferon alpha	◆	◆	◆	◆	◆	◆	◆	◆	◆
Interleukin 2 (Aldesleukin)	◆	◆	◆	◆	◆	◆	◆	◆	◆
Peginterferon alfa-2a	◆	◆	◆	◆	◆	◆	◆	◆	◆
Peginterferon alfa-2b	◆	◆	◆	◆	◆	◆	◆	◆	◆
Immunosuppressants									
Adalimumab	◆	◆	◆	◆	◆	◆	◆	◆	◆
Anti-thymocyte globulin	◆	◆	◆	◆	◆	◆	◆	◆	◆
Azathioprine	◆	◆	◆	◆	◆	◆	◆	◆	◆
Basiliximab	◆	◆	◆	◆	◆	◆	◆	◆	◆
Belatacept	◆	◆	◆	◆	◆	◆	◆	◆	◆
Ciclosporin	◆	◆	◆	◆	◆	◆	◆	◆	◆
Mycophenolate	◆	◆	◆	◆	◆	◆	◆	◆	◆
Sirolimus	◆	◆	◆	◆	◆	◆	◆	◆	◆
Tacrolimus	◆	◆	◆	◆	◆	◆	◆	◆	◆
Lipid Lowering Agents									
Atorvastatin	◆	◆	◆	◆	◆	◆	◆	◆	◆
Bezafibrate	◆	◆	◆	◆	◆	◆	◆	◆	◆
Clofibrate	◆	◆	◆	◆	◆	◆	◆	◆	◆
Evolocumab	◆	◆	◆	◆	◆	◆	◆	◆	◆
Ezetimibe	◆	◆	◆	◆	◆	◆	◆	◆	◆
Fenofibrate	◆	◆	◆	◆	◆	◆	◆	◆	◆
Fish oils	◆	◆	◆	◆	◆	◆	◆	◆	◆
Fluvastatin	◆	◆	◆	◆	◆	◆	◆	◆	◆
Gemfibrozil	◆	◆	◆	◆	◆	◆	◆	◆	◆
Lovastatin	◆	◆	◆	◆	◆	◆	◆	◆	◆
Pitavastatin	◆	◆	◆	◆	◆	◆	◆	◆	◆
Pravastatin	◆	◆	◆	◆	◆	◆	◆	◆	◆
Rosuvastatin	◆	◆	◆	◆	◆	◆	◆	◆	◆
Simvastatin	◆	◆	◆	◆	◆	◆	◆	◆	◆
Overactive Bladder Agents									
Darifenacin	◆	◆	◆	◆	◆	◆	◆	◆	◆
Fesoterodine	◆	◆	◆	◆	◆	◆	◆	◆	◆
Mirabegron	◆	◆	◆	◆	◆	◆	◆	◆	◆
Oxybutynin	◆	◆	◆	◆	◆	◆	◆	◆	◆
Solifenacin	◆	◆	◆	◆	◆	◆	◆	◆	◆
Tolterodine	◆	◆	◆	◆	◆	◆	◆	◆	◆
Trospium	◆	◆	◆	◆	◆	◆	◆	◆	◆
Oxytocics									
Ergometrine (Ergonovine)	◆	◆	◆	◆	◆	◆	◆	◆	◆
Mifepristone	◆	◆	◆	◆	◆	◆	◆	◆	◆
Misoprostol	◆	◆	◆	◆	◆	◆	◆	◆	◆
Oxytocin	◆	◆	◆	◆	◆	◆	◆	◆	◆
Parkinsonism Agents									
Apomorphine	◆	◆	◆	◆	◆	◆	◆	◆	◆
Benserazide	◆	◆	◆	◆	◆	◆	◆	◆	◆
Carbidopa	◆	◆	◆	◆	◆	◆	◆	◆	◆
Levodopa	◆	◆	◆	◆	◆	◆	◆	◆	◆
Pramipexole	◆	◆	◆	◆	◆	◆	◆	◆	◆
Rasagiline	◆	◆	◆	◆	◆	◆	◆	◆	◆
Ropinirole	◆	◆	◆	◆	◆	◆	◆	◆	◆
Steroids									
Beclometasone	◆	◆	◆	◆	◆	◆	◆	◆	◆
Betamethasone	◆	◆	◆	◆	◆	◆	◆	◆	◆
Budesonide	◆	◆	◆	◆	◆	◆	◆	◆	◆
Ciclesonide	◆	◆	◆	◆	◆	◆	◆	◆	◆
Clobetasol	◆	◆	◆	◆	◆	◆	◆	◆	◆
Dexamethasone	◆	◆	◆	◆	◆	◆	◆	◆	◆
Fludrocortisone	◆	◆	◆	◆	◆	◆	◆	◆	◆
Flunisolide	◆	◆	◆	◆	◆	◆	◆	◆	◆
Fluocinolone	◆	◆	◆	◆	◆	◆	◆	◆	◆
Fluticasone	◆	◆	◆	◆	◆	◆	◆	◆	◆
Hydrocortisone (oral)	◆	◆	◆	◆	◆	◆	◆	◆	◆
Hydrocortisone (topical)	◆	◆	◆	◆	◆	◆	◆	◆	◆
Megestrol acetate	◆	◆	◆	◆	◆	◆	◆	◆	◆
Methylprednisolone	◆	◆	◆	◆	◆	◆	◆	◆	◆
Mometasone	◆	◆	◆	◆	◆	◆	◆	◆	◆
Nandrolone	◆	◆	◆	◆	◆	◆	◆	◆	◆
Oxandrolone	◆	◆	◆	◆	◆	◆	◆	◆	◆
Prednisolone	◆	◆	◆	◆	◆	◆	◆	◆	◆
Prednisone	◆	◆	◆	◆	◆	◆	◆	◆	◆
Stanozolol	◆	◆	◆	◆	◆	◆	◆	◆	◆
Testosterone	◆	◆	◆	◆	◆	◆	◆	◆	◆
Triamcinolone	◆	◆	◆	◆	◆	◆	◆	◆	◆

For personal use only. Not for distribution.

	ABC	ddl	FTC	F/TAF	F/TDF	3TC	d4T	TDF	ZDV
Other									
Acamprosate	◆	◆	◆	◆	◆	◆	◆	◆	◆
Acetazolamide	◆	◆	◆	◆	◆	◆	◆	◆	◆
Acitretin	◆	◆	◆	◆	◆	◆	◆	◆	◆
Adrenaline (Epinephrine)	◆	◆	◆	◆	◆	◆	◆	◆	◆
Alendronic Acid	◆	◆	◆	◆	◆	◆	◆	◆	◆
Alfuzosin	◆	◆	◆	◆	◆	◆	◆	◆	◆
Allopurinol	◆	◆	◆	◆	◆	◆	◆	◆	◆
Atomoxetine	◆	◆	◆	◆	◆	◆	◆	◆	◆
Atropine	◆	◆	◆	◆	◆	◆	◆	◆	◆
Baclofen	◆	◆	◆	◆	◆	◆	◆	◆	◆
Betahistine	◆	◆	◆	◆	◆	◆	◆	◆	◆
Biperiden	◆	◆	◆	◆	◆	◆	◆	◆	◆
Brimonidine	◆	◆	◆	◆	◆	◆	◆	◆	◆
Cabergoline	◆	◆	◆	◆	◆	◆	◆	◆	◆
Caffeine citrate	◆	◆	◆	◆	◆	◆	◆	◆	◆
Calcium folinate	◆	◆	◆	◆	◆	◆	◆	◆	◆
Cannabidiol (CBD)	◆	◆	◆	◆	◆	◆	◆	◆	◆
Carbamazole	◆	◆	◆	◆	◆	◆	◆	◆	◆
Clomifene	◆	◆	◆	◆	◆	◆	◆	◆	◆
Colchicine	◆	◆	◆	◆	◆	◆	◆	◆	◆
Colestyramine (Cholestyramine)	◆	◆	◆	◆	◆	◆	◆	◆	◆
Cyproterone acetate	◆	◆	◆	◆	◆	◆	◆	◆	◆
Denosumab	◆	◆	◆	◆	◆	◆	◆	◆	◆
Disulfiram	◆	◆	◆	◆	◆	◆	◆	◆	◆
Dutasteride	◆	◆	◆	◆	◆	◆	◆	◆	◆
Fampridine (Dalfampridine)	◆	◆	◆	◆	◆	◆	◆	◆	◆
Filgrastim	◆	◆	◆	◆	◆	◆	◆	◆	◆
Finasteride	◆	◆	◆	◆	◆	◆	◆	◆	◆
Fiibanserin	◆	◆	◆	◆	◆	◆	◆	◆	◆
Glyceril trinitrate (Nitroglycerin)	◆	◆	◆	◆	◆	◆	◆	◆	◆
Goserelin	◆	◆	◆	◆	◆	◆	◆	◆	◆
Ibandronic acid	◆	◆	◆	◆	◆	◆	◆	◆	◆
Isotretinoin	◆	◆	◆	◆	◆	◆	◆	◆	◆
Leuprorelin	◆	◆	◆	◆	◆	◆	◆	◆	◆
Levothyroxine	◆	◆	◆	◆	◆	◆	◆	◆	◆
Mannitol	◆	◆	◆	◆	◆	◆	◆	◆	◆
Methylphenidate	◆	◆	◆	◆	◆	◆	◆	◆	◆
Modafinil	◆	◆	◆	◆	◆	◆	◆	◆	◆
Nafidrofuryl	◆	◆	◆	◆	◆	◆	◆	◆	◆
Naloxone	◆	◆	◆	◆	◆	◆	◆	◆	◆
Naltrexone	◆	◆	◆	◆	◆	◆	◆	◆	◆
Neostigmine	◆	◆	◆	◆	◆	◆	◆	◆	◆
Nicorandil	◆	◆	◆	◆	◆	◆	◆	◆	◆
Orlistat	◆	◆	◆	◆	◆	◆	◆	◆	◆
Penicillamine	◆	◆	◆	◆	◆	◆	◆	◆	◆
Pentoxifylline	◆	◆	◆	◆	◆	◆	◆	◆	◆
Pilocarpine	◆	◆	◆	◆	◆	◆	◆	◆	◆
Potassium	◆	◆	◆	◆	◆	◆	◆	◆	◆
Probenecid	◆	◆	◆	◆	◆	◆	◆	◆	◆
Propylthiouracil	◆	◆	◆	◆	◆	◆	◆	◆	◆
Protamine sulphate	◆	◆	◆	◆	◆	◆	◆	◆	◆
Pyridostigmine	◆	◆	◆	◆	◆	◆	◆	◆	◆
Sevelamer	◆	◆	◆	◆	◆	◆	◆	◆	◆
Strontium ranelate	◆	◆	◆	◆	◆	◆	◆	◆	◆
Sulfasalazine	◆	◆	◆	◆	◆	◆	◆	◆	◆
Tamsulosin	◆	◆	◆	◆	◆	◆	◆	◆	◆
Thalidomide	◆	◆	◆	◆	◆	◆	◆	◆	◆
Tranexamic acid	◆	◆	◆	◆	◆	◆	◆	◆	◆
Triptorelin	◆	◆	◆	◆	◆	◆	◆	◆	◆
Varenicline	◆	◆	◆	◆	◆	◆	◆	◆	◆
Zoledronic acid	◆	◆	◆	◆	◆	◆	◆	◆	◆

Key to abbreviations

ABC	Abacavir (Ziagen®)	3TC	Lamivudine (Epivir®)
ddl	Didanosine (Videx®, Videx-EC®)	d4T	Stavudine (Zerit®)
FTC	Emtricitabine (Emtriva®)	TDF	Tenofovir disoproxil fumarate (Viread®)
F/TAF	Emtricitabine + Tenofovir alafenamide (Descovy®)	ZDV	Zidovudine (Retrovir®)
F/TDF	Emtricitabine + Tenofovir-Df (Truvada®)		

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.

© Liverpool Drug Interaction Group, University of Liverpool, Pharmacology Research Labs, 1st Floor Block H, 70 Pembroke Place, LIVERPOOL, L69 3GF

We aim to ensure that information is accurate and consistent with current knowledge and practice. However, the University of Liverpool and its servants or agents shall not be responsible or in any way liable for the continued currency of information in this publication whether arising from negligence or otherwise howsoever or for any consequences arising therefrom. The University of Liverpool expressly exclude liability for errors, omissions or inaccuracies to the fullest extent permitted by law.