

Interactions with Entry & Integrase Inhibitors

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

	BIC/ F/TAF	DTG	DTG/ RPV	E/C/F/ TAF	E/C/F/ TDF	MVC	RAL
Anaesthetics & Muscle Relaxants							
Alcuronium	■	■	■	▲	▲	◆	◆
Bupivacaine	◆	◆	◆	◆	◆	◆	◆
Cisatracurium	◆	◆	◆	◆	◆	◆	◆
Desflurane	◆	◆	◆	◆	◆	◆	◆
Dexmedetomidine	◆	◆	◆	◆	◆	◆	◆
Enflurane	◆	◆	◆	◆	◆	◆	◆
Ephedrine	■	■	■	◆	◆	◆	◆
Halothane	◆	◆	◆	◆	◆	◆	◆
Isoflurane	◆	◆	◆	◆	◆	◆	◆
Ketamine	◆	◆	◆	■	■	◆	◆
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	◆	◆	◆	■	■	◆	◆
Niclosamide	◆	◆	◆	◆	◆	◆	◆
Oxamniquine	◆	◆	◆	▲	▲	◆	◆
Praziquantel	◆	◆	◆	■	■	◆	◆
Pyrantel	◆	◆	◆	◆	◆	◆	◆
Suramin sodium	◆	◆	◆	◆	◆	◆	◆
Triclabendazole	◆	◆	▲	▲	▲	◆	◆
Antiarrhythmics							
Amiodarone	■	◆	■	●	●	◆	◆
Bepidil	■	◆	■	■	■	◆	◆
Disopyramide	■	◆	■	■	■	◆	◆
Dofetilide	●	●	●	●	●	◆	◆
Flecainide	◆	◆	▲	■	■	◆	◆
Lidocaine (Lignocaine)	◆	◆	◆	■	■	◆	◆
Mexiletine	◆	◆	◆	■	■	◆	◆
Propafenone	◆	◆	◆	■	■	◆	◆
Quinidine	■	◆	■	●	●	◆	◆

	BIC/ F/TAF	DTG	DTG/ RPV	E/C/F/ TAF	E/C/F/ TDF	MVC	RAL
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	◆	◆	◆	◆	▲	◆	◆
Pyrazinamide	◆	◆	◆	◆	◆	◆	◆
Rifabutin	●	◆	■	■	■	◆	◆
Rifampicin	●	■	●	●	●	■	■
Rifapentine	●	■	●	●	●	■	■
Rifaximin	◆	◆	◆	◆	◆	◆	◆
Spectinomycin	◆	◆	◆	◆	◆	◆	◆
Streptomycin	◆	◆	◆	■	■	◆	◆
Sulfadiazine	■	◆	◆	■	■	◆	◆
Telithromycin	▲	◆	■	■	■	◆	◆
Tetracyclines	◆	◆	◆	◆	◆	◆	◆
Trimethoprim/Sulfamethoxazole	▲	◆	◆	▲	▲	◆	◆
Vancomycin	◆	◆	◆	◆	■	◆	◆
Anti-coagulant, Anti-platelet and Fibrinolytic							
Acenocoumarol	◆	◆	◆	■	■	◆	◆
Apixaban	◆	◆	◆	●	●	◆	◆
Aspirin (anti-platelet)	◆	◆	◆	■	■	◆	◆
Betrixaban	◆	◆	◆	■	■	◆	◆
Clopidogrel	◆	◆	◆	●	●	◆	◆
Dabigatran	◆	◆	▲	●	●	◆	◆
Dalteparin	◆	◆	◆	◆	◆	◆	◆
Dipyridamole	◆	◆	◆	◆	◆	◆	◆
Edoxaban	◆	◆	◆	■	■	◆	◆
Eltrombopag	◆	◆	◆	◆	◆	◆	◆
Enoxaparin	◆	◆	◆	◆	◆	◆	◆
Fondaparinux	◆	◆	◆	◆	◆	◆	◆
Heparin	◆	◆	◆	◆	◆	◆	◆
Phenprocoumon	◆	◆	◆	■	■	◆	◆
Prasugrel	◆	◆	◆	◆	◆	◆	◆
Rivaroxaban	◆	◆	◆	●	●	◆	◆
Streptokinase	◆	◆	◆	■	■	◆	◆
Ticagrelor	◆	◆	◆	●	●	◆	◆
Warfarin	◆	◆	◆	■	■	◆	◆

For personal use only. Not for distribution.

Key to abbreviations

BIC/F/TAF	Bictegravir + Emtricitabine + Tenofovir alafenamide (Biktary®)
DTG	Dolutegravir (Tivicay™)
DTG/RPV	Dolutegravir + Rilpivirine (Juluca™)
E/C/F/TAF	Elvitegravir + Cobicistat + Emtricitabine + Tenofovir alafenamide (Genvoya®)
E/C/F/TDF	Elvitegravir + Cobicistat + Emtricitabine + Tenofovir disoproxil fumarate (Stribild™)
MVC	Maraviroc (Celsentri®, Selzentry™)
RAL	Raltegravir (Isentress™)

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
*	There are no clear data, actual or theoretical, to indicate whether an interaction will occur

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 Entry & Integrase Inhibitors

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

	BIC/ F/TAF	DTG	DTG/ RPV	E/C/F/ TAF	E/C/F/ TDF	MVC	RAL
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	◆	◆	◆	▲	▲	◆	◆
Citalopram	◆	◆	▲	▲	▲	◆	◆
Clomipramine	◆	◆	▲	■	■	◆	◆
Desipramine	◆	◆	▲	▲	▲	◆	◆
Doxepin	◆	◆	◆	▲	▲	◆	◆
Duloxetine	◆	◆	◆	▲	▲	◆	◆
Escitalopram	◆	◆	▲	▲	▲	◆	◆
Fluoxetine	◆	◆	◆	▲	▲	◆	◆
Fluvoxamine	◆	◆	◆	▲	▲	◆	◆
Imipramine	◆	◆	▲	■	■	◆	◆
Lithium	◆	◆	▲	◆	◆	◆	◆
Maprotiline	◆	◆	▲	▲	▲	◆	◆
Mianserin	◆	◆	◆	▲	▲	◆	◆
Milnacipran	◆	◆	◆	▲	▲	◆	◆
Mirtazapine	◆	◆	◆	■	■	◆	◆
Nefazodone	▲	◆	■	■	■	◆	◆
Nortriptyline	◆	◆	▲	▲	▲	◆	◆
Paroxetine	◆	◆	◆	■	■	◆	◆
Phenelzine	◆	◆	◆	■	■	◆	◆
Reboxetine	◆	◆	◆	■	■	◆	◆
Sertraline	◆	◆	◆	■	■	◆	◆
Tranylcypromine	◆	◆	◆	■	■	◆	◆
Trazodone	◆	◆	▲	■	■	◆	◆
Trimipramine	◆	◆	◆	▲	▲	◆	◆
Venlafaxine	◆	◆	◆	▲	▲	◆	◆
Vortioxetine	◆	◆	◆	▲	▲	◆	◆
Anti-diabetics							
Acarbose	◆	◆	◆	◆	◆	◆	◆
Canagliflozin	◆	◆	◆	◆	■	◆	◆
Dapagliflozin	◆	◆	◆	◆	◆	◆	◆
Dulaglutide	◆	◆	■	◆	◆	◆	◆
Empagliflozin	◆	◆	◆	◆	◆	◆	◆
Exanatide	◆	◆	■	◆	◆	◆	◆
Glibenclamide (Glyburide)	◆	◆	◆	■	■	◆	◆
Glucoside	◆	◆	◆	■	■	◆	◆
Glimepiride	◆	◆	◆	■	■	◆	◆
Glipizide	◆	◆	◆	■	■	◆	◆
Insulin	◆	◆	◆	◆	◆	◆	◆
Linagliptin	◆	◆	◆	◆	◆	◆	◆
Liraglutide	◆	◆	■	◆	◆	◆	◆
Metformin	■	■	■	■	■	◆	◆
Nateglinide	◆	◆	◆	◆	◆	◆	◆
Pioglitazone	◆	◆	◆	▲	▲	◆	◆
Repaglinide	◆	◆	◆	■	■	◆	◆
Rosiglitazone	◆	◆	◆	◆	◆	◆	◆
Saxagliptin	◆	◆	◆	■	■	◆	◆
Sitagliptin	◆	◆	◆	■	■	◆	◆
Tolbutamide	◆	◆	◆	■	■	◆	◆
Vildagliptin	◆	◆	◆	◆	◆	◆	◆

For personal use only. Not for distribution.

	BIC/ F/TAF	DTG	DTG/ RPV	E/C/F/ TAF	E/C/F/ TDF	MVC	RAL
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	◆	◆	▲	●	●	▲	◆
Ergotamine	◆	◆	▲	●	●	▲	◆
Rizatriptan	◆	◆	◆	◆	◆	◆	◆
Sumatriptan	◆	◆	◆	◆	◆	◆	◆
Antiprotozoals							
Amodiaquine	◆	◆	◆	◆	◆	◆	◆
Artemisinin	▲	◆	▲	■	■	▲	◆
Atovaquone	◆	◆	◆	◆	◆	◆	◆
Benznidazole	◆	◆	◆	+	+	◆	◆
Chloroquine	◆	◆	▲	◆	◆	◆	◆
Diloxanide	◆	◆	◆	◆	◆	◆	◆
Eflornithine	▲	◆	◆	◆	▲	◆	◆
Halofantrine	◆	◆	■	◆	◆	◆	◆
Lumefantrine	◆	◆	▲	■	■	◆	◆
Mefloquine	◆	◆	▲	■	■	◆	◆
Meglumine antimoniate	◆	◆	◆	◆	◆	◆	◆
Melarsoprol	◆	◆	◆	◆	◆	◆	◆
Miltefosine	◆	◆	◆	◆	◆	◆	◆
Nifurtimox	◆	◆	◆	◆	◆	◆	◆
Paromomycin	◆	◆	◆	◆	◆	◆	◆
Pentamidine	◆	◆	▲	◆	■	◆	◆
Primaquine	◆	◆	◆	◆	◆	◆	◆
Proguanil	◆	◆	◆	◆	◆	◆	◆
Pyrimethamine	▲	◆	◆	▲	▲	◆	◆
Quinine	◆	◆	▲	■	■	▲	◆
Sodium stibogluconate	◆	◆	◆	◆	◆	◆	◆
Sulfadoxine	▲	◆	◆	▲	▲	◆	◆
Antipsychotics/Neuroleptics							
Amisulpride	◆	◆	◆	◆	◆	◆	◆
Aripiprazole	◆	◆	◆	■	■	◆	◆
Asenapine	◆	◆	◆	▲	▲	◆	◆
Chlorpromazine	◆	◆	▲	▲	▲	◆	◆
Clozapine	◆	◆	▲	■	■	◆	◆
Fluphenazine	◆	◆	▲	▲	▲	◆	◆
Haloperidol	◆	◆	▲	▲	▲	◆	◆
lloperidone	◆	◆	◆	■	■	◆	◆
Levomepromazine	◆	◆	▲	◆	◆	◆	◆
Olanzapine	◆	◆	◆	◆	▲	◆	◆
Paliperidone	◆	◆	◆	▲	▲	◆	◆
Perazine	◆	◆	▲	■	■	◆	◆
Periciazine	◆	◆	▲	▲	▲	◆	◆
Perphenazine	◆	◆	▲	▲	▲	◆	◆
Pimozide	◆	◆	▲	●	●	◆	◆
Pipotiazine	◆	◆	▲	▲	▲	◆	◆
Quetiapine	◆	◆	▲	●	●	◆	◆
Risperidone	◆	◆	▲	■	■	◆	◆
Sulpiride	◆	◆	◆	◆	◆	◆	◆
Thioridazine	■	◆	■	▲	▲	■	◆
Tiapride	◆	◆	▲	◆	◆	◆	◆
Ziprasidone	◆	◆	●	■	■	◆	◆
Zotepine	◆	◆	◆	■	■	◆	◆
Zuclopenthixol	◆	◆	▲	■	■	◆	◆

Key to abbreviations

BIC/F/TAF	Bictegravir + Emtricitabine + Tenofovir alafenamide (Biktarvy®)
DTG	Dolutegravir (Tivicay™)
DTG/RPV	Dolutegravir + Rilpivirine (Juluca™)
E/C/F/TAF	Elvitegravir + Cobicistat + Emtricitabine + Tenofovir alafenamide (Genvoya®)
E/C/F/TDF	Elvitegravir + Cobicistat + Emtricitabine + Tenofovir disoproxil fumarate (StriBild™)
MVC	Maraviroc (Celsentri™, Selzentry™)
RAL	Raltegravir (Isentress™)

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
+	There are no clear data, actual or theoretical, to indicate whether an interaction will occur

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 Entry & Integrase Inhibitors

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

	BIC/ F/TAF	DTG	DTG/ RPV	E/C/F/ TAF	E/C/F/ TDF	MVC	RAL
Antivirals							
Aciclovir	♦	♦	♦	♦	♦	♦	♦
Adefovir	●	♦	♦	●	●	♦	♦
Amantadine	♦	♦	♦	♦	♦	♦	♦
Boceprevir	●	♦	♦	●	♦	♦	♦
Cidofovir	♦	♦	♦	♦	♦	♦	♦
Daclatasvir	♦	♦	♦	♦	♦	♦	♦
Eibasvir/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	♦	♦	♦	♦	♦	♦	♦
Telaprevir	♦	♦	♦	♦	♦	♦	♦
Telbivudine	♦	♦	♦	♦	♦	♦	♦
Tenofovir alafenamide (HBV)	●	♦	♦	●	♦	♦	♦
Valaciclovir	♦	♦	♦	♦	♦	♦	♦
Zanamivir	♦	♦	♦	♦	♦	♦	♦
Anxiolytics/Hypnotics/ Sedatives							
Alprazolam	♦	♦	♦	♦	♦	♦	♦
Bromazepam	♦	♦	♦	♦	♦	♦	♦
Bupirone	♦	♦	♦	♦	♦	♦	♦
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.

	BIC/ F/TAF	DTG	DTG/ RPV	E/C/F/ TAF	E/C/F/ TDF	MVC	RAL
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	♦	♦	▲	♦	♦	▲	♦
Letrozole	♦	♦	♦	♦	♦	♦	♦
Mercaptopurine	♦	♦	♦	♦	♦	♦	♦
Mesna	♦	♦	♦	♦	♦	♦	♦
Methotrexate	♦	♦	♦	♦	♦	♦	♦
Mitoxantrone	♦	♦	▲	♦	♦	♦	♦
Nilotinib	♦	♦	♦	♦	♦	♦	♦
Oxaliplatin	♦	♦	♦	♦	♦	♦	♦
Paclitaxel	♦	♦	♦	♦	♦	♦	♦
Pazopanib	♦	♦	♦	♦	♦	♦	♦
Procarbazine	♦	♦	♦	♦	♦	♦	♦
Rituximab	♦	♦	♦	♦	♦	♦	♦
Sorafenib	♦	♦	▲	♦	♦	♦	♦
Sunitinib	♦	♦	▲	♦	♦	♦	♦
Tamoxifen	♦	♦	♦	♦	♦	♦	♦
Temsirolimus	♦	♦	▲	♦	♦	♦	♦
Topotecan	♦	♦	♦	♦	♦	♦	♦
Toremifene	♦	♦	▲	♦	♦	♦	♦
Vinblastine	♦	♦	♦	♦	♦	♦	♦
Vincristine	♦	♦	♦	♦	♦	♦	♦
Vorinostat	♦	♦	▲	♦	♦	♦	♦

Key to abbreviations

BIC/F/TAF	Bictegravir + Emtricitabine + Tenofovir alafenamide (Biktarvy®)
DTG	Dolutegravir (Tivicay™)
DTG/RPV	Dolutegravir + Rilpivirine (Juluca™)
E/C/F/TAF	Elvitegravir + Cobicistat + Emtricitabine + Tenofovir alafenamide (Genvoya®)
E/C/F/TDF	Elvitegravir + Cobicistat + Emtricitabine + Tenofovir disoproxil fumarate (Stribild®)
MVC	Maraviroc (Celsentri™, Selzentry™)
RAL	Raltegravir (Isentress™)

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
+	There are no clear data, actual or theoretical, to indicate whether an interaction will occur

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 Entry & Integrase Inhibitors

Charts revised April 2019. 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.

	BIC/ F/TAF	DTG	DTG/ RPV	E/C/F/ TAF	E/C/F/ TDF	MVC	RAL
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							
Sildenafil (Erectile Dysfunction)	♦	♦	♦	■	■	♦	♦
Tadalafil (Erectile Dysfunction)	♦	♦	♦	■	■	♦	♦
Vardenafil	♦	♦	♦	■	■	♦	♦
Gastrointestinal Agents							
Alosetron	♦	♦	♦	♦	♦	♦	♦
Antacids	■	■	■	■	■	♦	■
Bisacodyl	♦	♦	♦	♦	♦	♦	♦
Cimetidine	♦	♦	■	♦	♦	♦	♦
Cisapride	♦	♦	▲	♦	♦	♦	♦
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)	■	■	■	■	■	♦	■
Calcium supplements	■	■	■	■	■	♦	■
Cat's claw (Uncaria tomentosa)	♦	♦	♦	■	■	♦	♦
Colecalciferol (vitamin D3)	♦	♦	♦	■	■	♦	♦
Cubeb pepper (Piper cubeba)	♦	♦	▲	■	■	▲	♦
Cyanocobalamin	■	■	■	■	■	♦	■
Echinacea	♦	♦	▲	♦	♦	▲	♦
Eucalyptus globulus	♦	♦	♦	♦	♦	♦	♦
Folic acid	■	■	■	■	■	♦	■
Garlic	■	■	■	■	■	♦	■
Ginger (Zingiber officinale)	♦	♦	▲	♦	♦	▲	♦
Ginkgo biloba	▲	▲	▲	♦	♦	▲	♦
Goldenseal root (Hydrastis canadensis)	♦	♦	♦	♦	♦	♦	♦
Grapefruit juice	♦	♦	▲	♦	♦	▲	♦

For personal use only. Not for distribution.

	BIC/ F/TAF	DTG	DTG/ RPV	E/C/F/ TAF	E/C/F/ TDF	MVC	RAL
Herbals/Supplements/Vitamins (continued)							
Hops (Humulus lupulus)	■	■	■	■	■	♦	■
Inula racemosa	♦	♦	▲	♦	♦	▲	♦
Iodine	■	■	■	■	■	♦	■
Iron supplements	■	■	■	■	■	♦	■
Liquorice (Glycyrrhiza glabra)	▲	▲	▲	■	■	▲	▲
Magnesium supplements	■	■	■	■	■	♦	■
Malabar nut tree	■	■	■	■	■	♦	■
Menthol	♦	♦	▲	♦	♦	▲	♦
Milk thistle (silymarin)	♦	♦	♦	♦	♦	♦	♦
Multivitamins	■	■	■	■	■	♦	■
Nicotinamide	■	■	■	■	■	♦	■
Phytomenadione (vitamin K)	■	■	■	■	■	♦	■
Pyridoxine (vitamin B6)	■	■	■	■	■	♦	■
Quercetin	♦	♦	■	■	■	♦	♦
Retinol (vitamin A)	■	■	■	■	■	♦	■
Riboflavin (vitamin B2)	■	■	■	■	■	♦	■
Saw palmetto (Serenoa repens)	♦	♦	♦	♦	♦	♦	♦
Seville orange juice	♦	♦	▲	♦	♦	▲	♦
St John's Wort	■	■	■	■	■	♦	■
Thiamine (vitamin B1)	■	■	■	■	■	♦	■
Turmeric (Curcuma longa)	♦	♦	♦	♦	♦	♦	♦
Valerian	♦	♦	♦	♦	♦	♦	♦
Vitamin E	■	■	■	■	■	♦	■
Hypertension / Heart Failure Agents							
Aliskiren	♦	♦	♦	♦	♦	♦	♦
Ambrisentan	♦	♦	♦	♦	♦	♦	♦
Amiloride	♦	♦	♦	♦	♦	♦	♦
Bendroflumethiazide	♦	♦	♦	+	+	♦	♦
Bosentan	▲	▲	■	■	■	■	♦
Candesartan	♦	♦	♦	♦	♦	♦	♦
Captopril	♦	♦	♦	♦	♦	♦	♦
Chlortalidone	♦	♦	♦	♦	♦	♦	♦
Cilazapril	♦	♦	♦	♦	♦	♦	♦
Clonidine	♦	♦	♦	♦	♦	♦	♦
Digoxin	♦	♦	♦	■	■	♦	♦
Dopamine	♦	♦	♦	♦	♦	♦	♦
Doxazosin	♦	♦	♦	■	■	♦	♦
Enalapril	♦	♦	♦	♦	♦	♦	♦
Eplerenone	♦	♦	♦	♦	♦	♦	♦
Epoprostenol	♦	♦	♦	♦	♦	♦	♦
Erosartan	♦	♦	♦	♦	♦	♦	♦
Fosinopril	♦	♦	♦	♦	♦	♦	♦
Furosemide	♦	♦	♦	♦	♦	♦	♦
Hydralazine	♦	♦	♦	♦	♦	♦	♦
Hydrochlorothiazide	♦	♦	♦	♦	♦	♦	♦
Iloprost	♦	♦	♦	♦	♦	♦	♦
Indapamide	♦	♦	♦	♦	♦	♦	♦
Irbesartan	♦	♦	♦	♦	♦	♦	♦
Isoorbide dinitrate	♦	♦	♦	■	■	▲	♦
Ivabradine	♦	♦	♦	♦	♦	♦	♦
Labetalol	♦	♦	♦	♦	♦	♦	♦
Lacidipine	♦	♦	♦	♦	♦	♦	♦
Lercanidipine	♦	♦	♦	♦	♦	♦	♦
Lisinopril	♦	♦	♦	♦	♦	♦	♦
Losartan	♦	♦	♦	♦	♦	♦	♦
Macitentan	♦	♦	♦	♦	♦	♦	♦
Methyldopa	♦	♦	♦	♦	♦	♦	♦
Metolazone	♦	♦	♦	♦	♦	♦	♦
Olmесartan	♦	♦	♦	♦	♦	♦	♦
Perindopril	♦	♦	♦	♦	♦	♦	♦
Prazosin	♦	♦	♦	♦	♦	♦	♦
Quinapril	♦	♦	♦	♦	♦	♦	♦
Ramipril	♦	♦	♦	♦	♦	♦	♦
Ranolazine	■	■	■	■	■	♦	■
Riociguat	♦	♦	♦	♦	♦	♦	♦
Sacubitril	♦	♦	♦	♦	♦	♦	♦
Selexipag	♦	♦	♦	♦	♦	♦	♦
Sildenafil (PAH)	♦	♦	♦	♦	♦	♦	♦
Sodium nitroprusside	♦	♦	♦	♦	♦	♦	♦
Spironolactone	♦	♦	♦	♦	♦	♦	♦
Tadalafil (PAH)	♦	♦	♦	♦	♦	♦	♦
Telmisartan	♦	♦	♦	♦	♦	♦	♦
Terazosin	♦	♦	♦	♦	♦	♦	♦
Torsemide	♦	♦	♦	♦	♦	♦	♦
Trandolapril	♦	♦	♦	♦	♦	♦	♦
Treprostinil	♦	♦	♦	♦	♦	♦	♦
Valsartan	♦	♦	♦	♦	♦	♦	♦
Xipamide	♦	♦	♦	♦	♦	♦	♦

Key to abbreviations

BIC/F/TAF	Bictegravir + Emtricitabine + Tenofovir alafenamide (Biktarvy®)
DTG	Dolutegravir (Tivicay™)
DTG/RPV	Dolutegravir + Rilpivirine (Juluca™)
E/C/F/TAF	Elvitegravir + Cobicistat + Emtricitabine + Tenofovir alafenamide (Genvoya®)
E/C/F/TDF	Elvitegravir + Cobicistat + Emtricitabine + Tenofovir disoproxil fumarate (Stribild®)
MVC	Maraviroc (Celsentri®, Selzentry™)
RAL	Raltegravir (Isentress™)

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
+	There are no clear data, actual or theoretical, to indicate whether an interaction will occur

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 excludes liability for errors, omissions or inaccuracies to the fullest extent permitted by law.

Interactions with Entry & Integrase Inhibitors

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

	BIC/ F/TAF	DTG	DTG/ RPV	E/C/F/ TAF	E/C/F/ TDF	MVC	RAL
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	◆	◆	◆	◆	◆	◆	◆
Oxybutnin	◆	◆	◆	■	■	◆	◆
Solifenacin	◆	◆	◆	■	■	◆	◆
Tolterodine	◆	◆	▲	■	■	◆	◆
Trospium	◆	◆	◆	◆	◆	◆	◆
Oxytocics							
Ergometrine (Ergonovine)	◆	◆	◆	◆	◆	◆	◆
Mifepristone	◆	◆	◆	◆	◆	◆	◆
Misoprostol	◆	◆	◆	◆	◆	◆	◆
Oxytocin	◆	◆	◆	◆	◆	◆	◆
Parkinsonism Agents							
Apomorphine	◆	◆	◆	◆	◆	◆	◆
Benserazide	◆	◆	◆	◆	◆	◆	◆
Carbidopa	◆	◆	◆	■	■	◆	◆
Levodopa	◆	◆	◆	■	■	◆	◆
Pramipexole	◆	◆	◆	◆	◆	◆	◆
Rasagiline	◆	◆	◆	◆	◆	◆	◆
Ropinrole	◆	◆	◆	◆	◆	◆	◆
Steroids							
Beclomethasone	◆	◆	◆	◆	◆	◆	◆
Betamethasone	■	◆	■	◆	◆	■	◆
Budesonide	◆	◆	◆	◆	◆	◆	◆
Clobetasol	◆	◆	◆	■	■	◆	◆
Dexamethasone	■	◆	◆	■	■	◆	◆
Fludrocortisone	◆	◆	◆	■	■	◆	◆
Fluocinolone	◆	◆	◆	■	■	◆	◆
Fluticasone	◆	◆	◆	■	■	◆	◆
Hydrocortisone (oral)	◆	◆	◆	■	■	◆	◆
Hydrocortisone (topical)	◆	◆	◆	◆	◆	◆	◆
Megestrol acetate	◆	◆	◆	◆	◆	◆	◆
Methylprednisolone	◆	◆	◆	■	■	◆	◆
Mometasone	◆	◆	◆	◆	◆	◆	◆
Nandrolone	◆	◆	◆	◆	◆	◆	◆
Oxandrolone	◆	◆	◆	◆	◆	◆	◆
Prednisolone	◆	◆	◆	■	■	◆	◆
Prednisone	◆	◆	◆	■	■	◆	◆
Stanozolol	◆	◆	◆	◆	◆	◆	◆
Testosterone	◆	◆	◆	■	■	◆	◆
Triamcinolone	◆	◆	◆	◆	◆	◆	◆

Key to abbreviations

BIC/F/TAF	Bictegravir + Emtricitabine + Tenofovir alafenamide (Biktarvy [®])
DTG	Dolutegravir (Tivicay [™])
DTG/RPV	Dolutegravir + Rilpivirine (Juluca [™])
E/C/F/TAF	Elvitegravir + Cobicistat + Emtricitabine + Tenofovir alafenamide (Genvoya [®])
E/C/F/TDF	Elvitegravir + Cobicistat + Emtricitabine + Tenofovir disoproxil fumarate (Stribild [™])
MVC	Maraviroc (Celsentri [™] , Selzentry [™])
RAL	Raltegravir (Isentress [™])

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
+	There are no clear data, actual or theoretical, to indicate whether an interaction will occur

	BIC/ F/TAF	DTG	DTG/ RPV	E/C/F/ TAF	E/C/F/ TDF	MVC	RAL
Other							
Acamprosate	▲	◆	◆	▲	▲	◆	◆
Acetazolamide	◆	◆	◆	◆	◆	◆	◆
Acitretin	◆	◆	◆	◆	◆	◆	◆
Adrenaline (Epinephrine)	◆	◆	◆	◆	◆	◆	◆
Alendronic Acid	◆	◆	◆	◆	◆	◆	◆
Alfuzosin	◆	◆	◆	◆	◆	◆	◆
Allopurinol	◆	◆	◆	◆	◆	◆	◆
Atropine	◆	◆	◆	◆	◆	◆	◆
Baclofen	◆	◆	◆	◆	◆	◆	◆
Bethahistine	◆	◆	◆	◆	◆	◆	◆
Biperiden	◆	◆	◆	◆	◆	◆	◆
Caffeine citrate	◆	◆	◆	◆	◆	◆	◆
Cannabidiol (CBD)	◆	◆	◆	◆	◆	◆	◆
Carbamazole	◆	◆	◆	◆	◆	◆	◆
Clomifene	◆	◆	◆	▲	▲	◆	◆
Colchicine	◆	◆	◆	◆	◆	◆	◆
Cyproterone acetate	◆	◆	◆	◆	◆	◆	◆
Denosumab	◆	◆	◆	◆	◆	◆	◆
Disulfiram	◆	◆	◆	◆	◆	◆	◆
Dutasteride	◆	◆	◆	◆	◆	◆	◆
Finasteride	◆	◆	◆	◆	◆	◆	◆
Flibanserin	◆	◆	▲	◆	◆	◆	◆
Glycerol trinitrate (Nitroglycerin)	◆	◆	◆	◆	◆	◆	◆
Goserelin	◆	◆	◆	◆	◆	◆	◆
Ibandronic acid	◆	◆	◆	◆	◆	◆	◆
Isotretinoin	◆	◆	◆	◆	◆	◆	◆
Leuporelin	◆	◆	◆	◆	◆	◆	◆
Levothyroxine	◆	◆	◆	◆	◆	◆	◆
Mannitol	◆	◆	◆	◆	◆	◆	◆
Methylphenidate	◆	◆	◆	◆	◆	◆	◆
Modafinil	▲	◆	◆	◆	◆	◆	◆
Naftidrofuryl	◆	◆	◆	◆	◆	◆	◆
Naloxone	◆	◆	◆	◆	◆	◆	◆
Naltrexone	◆	◆	◆	◆	◆	◆	◆
Neostigmine	◆	◆	◆	◆	◆	◆	◆
Nicorandil	◆	◆	◆	◆	◆	◆	◆
Orlistat	▲	▲	▲	▲	▲	▲	▲
Penicillamine	◆	◆	◆	◆	◆	◆	◆
Pentoxifylline	◆	◆	◆	◆	◆	◆	◆
Pilocarpine	◆	◆	◆	◆	◆	◆	◆
Potassium	◆	◆	◆	◆	◆	◆	◆
Probenecid	◆	◆	◆	◆	◆	◆	◆
Propylthiouracil	◆	◆	◆	◆	◆	◆	◆
Protamine sulphate	◆	◆	◆	◆	◆	◆	◆
Pyridostigmine	◆	◆	◆	◆	◆	◆	◆
Strontium ranelate	■	■	■	■	■	▲	■
Sulfasalazine	◆	◆	◆	◆	◆	◆	◆
Tamsulosin	◆	◆	◆	◆	◆	◆	◆
Thalidomide	◆	◆	◆	◆	◆	◆	◆
Tranexamic acid	◆	◆	◆	◆	◆	◆	◆
Triptorelin	◆	◆	◆	◆	◆	◆	◆
Varencidine	◆	◆	◆	◆	◆	◆	◆
Zoledronic acid	◆	◆	◆	◆	◆	◆	◆

For personal use only. Not for distribution.

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.