# Interactions with Protease Inhibitors

*Charts revised May 2018. 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.**

| | ATV | Cobi | DRV | FPV | IDV | LPV | RTV | SQV | TPV |
|---|---|---|---|---|---|---|---|---|---|
| **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 | ◆ | ◆ | ◆ | ◆ | ● | ◆ | ● | ◆ | ◆ |
| Tramadol | △ | △ | △ | △ | △ | △ | △ | △ | △ |
| **Anthelmintics** | | | | | | | | | |
| Albendazole | △ | △ | △ | △ | △ | △ | ■ | △ | △ |
| Diethylcarbamazine | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| Ivermectin | △ | △ | △ | △ | △ | △ | △ | △ | △ |
| Levamisole (Ergamisol) | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| Mebendazole | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Niclosamide | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| Oxamniquine | △ | △ | △ | △ | △ | △ | △ | △ | ■ |
| Praziquantel | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Pyrantel | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| Suramin sodium | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| Triclabendazole | △ | △ | △ | △ | △ | △ | △ | △ | △ |
| **Antiarrhythmics** | | | | | | | | | |
| Amiodarone | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Bepridil | ● | ■ | ● | ● | ● | ● | ● | ● | ● |
| Disopyramide | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ● | ■ |
| Dofetilide | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Flecainide | ● | ■ | ■ | ● | ● | ● | ● | ● | ● |
| Lidocaine (Lignocaine) | ■ | ■ | ● | ■ | ■ | ■ | ■ | ● | ■ |
| Mexiletine | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Propafenone | ● | ■ | ■ | ● | ● | ■ | ● | ● | ● |
| Quinidine | ● | ● | ● | ● | ● | ■ | ● | ● | ● |
| **Antibacterials** | | | | | | | | | |
| Amikacin | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| Amoxicillin | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| Ampicillin | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| Azithromycin | ■ | ◆ | ◆ | ◆ | ◆ | ■ | ◆ | ● | ◆ |
| Bedaquiline | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ● | ■ |
| Capreomycin | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| Cefalexin | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| Cefazolin | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| Cefixime | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| Cefotaxime | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| Ceftazidime | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| Ceftriaxone | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| Chloramphenicol | △ | △ | △ | △ | △ | △ | △ | △ | △ |
| Ciprofloxacin | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| Clarithromycin | ■ | ■ | ■ | ◆ | ◆ | ■ | ■ | ● | ■ |
| Clavulanic acid | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| Clindamycin | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Clofazimine | ■ | ◆ | ◆ | ◆ | ◆ | ■ | ◆ | ● | ◆ |
| Cloxacillin | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| Cycloserine | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| Dapsone | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ● | ◆ |
| Doxycycline | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |

| | ATV | Cobi | DRV | FPV | IDV | LPV | RTV | SQV | TPV |
|---|---|---|---|---|---|---|---|---|---|
| **Antibacterials (continued)** | | | | | | | | | |
| 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) | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| Clopidogrel | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Dabigatran | ■ | ● | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Dalteparin | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| Dipyridamole | ■ | ◆ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Edoxaban | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Eltrombopag | ■ | ◆ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Enoxaparin | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| Fondaparinux | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| Heparin | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ■ |
| Phenprocoumon | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Prasugrel | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| Rivaroxaban | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Streptokinase | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ■ |
| Ticagrelor | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Warfarin | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| **Anticonvulsants** | | | | | | | | | |
| Carbamazepine | ■ | ● | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Clonazepam | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Ethosuximide | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Gabapentin | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| Lacosamide | △ | ◆ | ◆ | ◆ | ◆ | △ | ◆ | △ | ◆ |
| Lamotrigine | ■ | ◆ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Levetiracetam | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| Oxcarbazepine | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Phenobarbital (Phenobarbitone) | ■ | ● | ● | ■ | ■ | ■ | ■ | ■ | ■ |
| Phenytoin | ■ | ● | ● | ■ | ■ | ■ | ■ | ■ | ■ |
| Pregabalin | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| Topiramate | ◆ | ◆ | ◆ | ◆ | ■ | ◆ | ◆ | ◆ | ◆ |
| Valproate (Divalproex) | ■ | ◆ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Vigabatrin | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| Zonisamide | ◆ | ◆ | ◆ | ◆ | ■ | ◆ | ◆ | ◆ | ◆ |
| **Antidepressants** | | | | | | | | | |
| Agomelatine | ■ | ◆ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Amitriptyline | ■ | △ | △ | △ | △ | ■ | △ | ● | ■ |
| Bupropion | △ | ◆ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Citalopram | ■ | △ | △ | △ | △ | ■ | △ | ● | ■ |
| Clomipramine | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ● | ■ |
| Desipramine | ■ | ■ | △ | △ | △ | ■ | △ | ● | ■ |
| Doxepin | △ | △ | △ | △ | △ | △ | △ | ● | △ |
| Duloxetine | △ | △ | △ | △ | △ | △ | △ | △ | △ |
| Escitalopram | ■ | △ | △ | △ | △ | ■ | △ | ● | ■ |
| Fluoxetine | △ | △ | △ | △ | △ | △ | ■ | △ | ■ |
| Fluvoxamine | △ | △ | △ | △ | △ | △ | △ | △ | ■ |
| Imipramine | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ● | ■ |
| Lithium | ■ | ◆ | ◆ | ◆ | ◆ | ■ | ◆ | ● | ◆ |
| Maprotiline | △ | △ | △ | △ | △ | △ | △ | △ | ■ |
| Mianserine | △ | △ | △ | △ | △ | △ | △ | △ | △ |
| Milnacipran | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| Mirtazapine | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Nefazodone | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Nortriptyline | ■ | △ | △ | △ | △ | ■ | △ | ● | ■ |
| Paroxetine | ■ | ■ | △ | ■ | ■ | ■ | ■ | ■ | ■ |
| Phenelzine | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| Reboxetine | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Sertraline | △ | △ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Tranylcypromine | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Trazodone | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ● | ■ |
| Trimipramine | △ | △ | △ | △ | △ | △ | △ | △ | ■ |
| Venlafaxine | △ | △ | △ | △ | △ | △ | △ | △ | ■ |

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### *Key to abbreviations*

| | | | |
|---|---|---|---|
| ATV | Atazanavir (Reyataz®) | IDV | Indinavir (Crixivan®) |
| Cobi | Cobicistat (Tybost®) | LPV | Lopinavir (Kaletra®) |
| DRV | Darunavir (Prezista®) | RTV | Ritonavir (Norvir®) |
| FPV | Fosamprenavir (Telzir®, Lexiva®) | SQV | Saquinavir (Invirase®) |
| | | TPV | Tipranavir (Aptivus®) |

### *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.*

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Pharmacology Research Labs, 1st Floor Block H, 70 Pembroke Place, LIVERPOOL, L69 3GF
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# Interactions with Protease Inhibitors



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

| | ATV | Cobi | DRV | FPV | IDV | LPV | RTV | SQV | TPV |
|---|---|---|---|---|---|---|---|---|---|
| **Anti-diabetics** | | | | | | | | | |
| Acarbose | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| Empagliflozin | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| Exanatide | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| Glibenclamide (Glyburide) | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Gliclazide | ■ | ◆ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Glimepiride | ■ | ◆ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Glipizide | ■ | ◆ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Insulin | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| Linagliptin | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| Liraglutide | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| Metformin | ◆ | ■ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| Nateglinide | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Pioglitazone | △ | △ | △ | △ | △ | △ | △ | △ | ■ |
| Repaglinide | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Rosiglitazone | ◆ | ◆ | △ | △ | △ | △ | △ | △ | ■ |
| Saxagliptin | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Sitagliptin | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| Tolbutamide | ■ | ◆ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Vildagliptin | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| **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 | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |

| | ATV | Cobi | DRV | FPV | IDV | LPV | RTV | SQV | TPV |
|---|---|---|---|---|---|---|---|---|---|
| **Antipsychotics/Neuroleptics** | | | | | | | | | |
| Amisulpride | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| Aripiprazole | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Asenapine | ■ | △ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Chlorpromazine | ■ | △ | △ | △ | △ | ■ | △ | ● | △ |
| Clozapine | ■ | ■ | ■ | ■ | ● | ■ | ■ | ● | ■ |
| Fluphenazine | ■ | △ | △ | △ | △ | ■ | ■ | ● | ■ |
| Haloperidol | ■ | △ | △ | △ | △ | ■ | △ | ● | △ |
| Iloperidone | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ● | ■ |
| Levomepromazine | ■ | △ | △ | △ | △ | ■ | △ | ● | ■ |
| Olanzapine | ■ | ◆ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Paliperidone | △ | △ | △ | △ | △ | △ | △ | △ | △ |
| Perazine | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ● | ■ |
| Periciazine | ■ | △ | △ | △ | △ | ■ | △ | ● | ■ |
| Perphenazine | ■ | △ | △ | △ | △ | ■ | △ | ● | ■ |
| Pimozide | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Pipotiazine | ■ | △ | △ | △ | △ | ■ | △ | ● | ■ |
| Quetiapine | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Risperidone | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Sulpiride | ■ | ◆ | ◆ | ◆ | ◆ | ■ | ◆ | ● | ◆ |
| Thioridazine | ■ | △ | △ | △ | △ | ■ | △ | ● | ■ |
| Tiapride | ■ | ◆ | ◆ | ◆ | ◆ | ■ | ◆ | ● | ◆ |
| Ziprasidone | ● | ■ | ■ | ■ | ■ | ● | ■ | ● | ■ |
| Zotepine | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ● | ■ |
| Zuclopenthixol | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ● | ■ |
| **Antivirals** | | | | | | | | | |
| Aciclovir | ◆ | ◆ | ◆ | ◆ | ■ | ◆ | ◆ | ◆ | ◆ |
| Adefovir | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| Amantadine | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| Boceprevir | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| 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 | ● | ■ | ■ | ● | ● | ● | ■ | ● | ● |
| Telaprevir | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Telbivudine | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| Valaciclovir | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| Zanamivir | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| **Anxiolytics/Hypnotics/Sedatives** | | | | | | | | | |
| Alprazolam | ■ | ■ | ■ | ■ | ● | ■ | ■ | ■ | ■ |
| Bromazepam | △ | △ | △ | △ | △ | △ | △ | △ | ■ |
| Buspirone | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Chlordiazepoxide | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| 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 | △ | △ | △ | △ | △ | △ | △ | △ | ■ |

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***Key to abbreviations***

| | | | |
|---|---|---|---|
| ATV | Atazanavir (Reyataz®) | IDV | Indinavir (Crixivan®) |
| Cobi | Cobicistat (Tybost®) | LPV | Lopinavir (Kaletra®) |
| DRV | Darunavir (Prezista®) | RTV | Ritonavir (Norvir®) |
| FPV | Fosamprenavir (Telzir®, Lexiva®) | SQV | Saquinavir (Invirase®) |
| | | TPV | Tipranavir (Aptivus®) |

***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.*

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Pharmacology Research Labs, 1st Floor Block H, 70 Pembroke Place, LIVERPOOL, L69 3GF
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# Interactions with Protease Inhibitors



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

| | ATV | Cobi | DRV | FPV | IDV | LPV | RTV | SQV | TPV |
|---|---|---|---|---|---|---|---|---|---|
| **Bronchodilators** | | | | | | | | | |
| Aclidinium bromide | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| Aminophylline | ■ | ◆ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Formoterol | △ | ◆ | ◆ | ◆ | ◆ | △ | ◆ | ● | ◆ |
| Glycopyrronium bromide | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| Indacaterol | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| Ipratropium bromide | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| Montelukast | △ | △ | △ | △ | △ | △ | △ | △ | △ |
| Olodaterol | △ | △ | △ | △ | △ | △ | △ | △ | △ |
| Roflumilast | △ | △ | △ | △ | △ | △ | △ | △ | △ |
| Salbutamol | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| Salmeterol | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Theophylline | ■ | ◆ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Tiotropium bromide | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| Umeclidinium bromide | △ | △ | △ | △ | △ | △ | △ | △ | △ |
| Vilanterol | △ | △ | △ | △ | △ | △ | △ | △ | △ |
| **Calcium Channel Blockers** | | | | | | | | | |
| Amlodipine | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Diltiazem | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Felodipine | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Nicardipine | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Nifedipine | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Nisoldipine | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Nitrendipine | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Verapamil | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| **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 | △ | △ | △ | △ | △ | △ | △ | △ | △ |
| **Cytotoxics** | | | | | | | | | |
| Anastrozole | △ | ■ | △ | △ | △ | △ | △ | △ | △ |
| Asparaginase | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| Bexarotene | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Bleomycin | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| Bortezomib | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ● | ■ |
| Capecitabine | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| Carboplatin | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| 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 | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |

| | ATV | Cobi | DRV | FPV | IDV | LPV | RTV | SQV | TPV |
|---|---|---|---|---|---|---|---|---|---|
| **Cytotoxics (continued)** | | | | | | | | | |
| Mercaptopurine | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| Mesna | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| Methotrexate | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| Mitoxantrone | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Nilotinib | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ● | ■ |
| Oxaliplatin | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| Paclitaxel | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Pazopanib | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ● | ■ |
| Procarbazine | ■ | ◆ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Rituximab | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| Sorafenib | ■ | ◆ | ◆ | ◆ | ◆ | ■ | ◆ | ● | ◆ |
| Sunitinib | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ● | ■ |
| Tamoxifen | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Temsirolimus | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Topotecan | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Toremifene | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ● | ■ |
| Vinblastine | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Vincristine | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Vorinostat | ■ | ◆ | ◆ | ◆ | ◆ | ■ | ◆ | ● | ◆ |
| **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 (Zinigiber officinale) | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| Ginkgo biloba | ■ | ◆ | ◆ | △ | △ | ◆ | ◆ | ■ | ◆ |
| Goldenseal root (Hydrastis canadensis) | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| Grapefruit juice | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| Hops (Humulus lupulus) | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Inula racemosa | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| Iodine | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| Iron supplements | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| Liquorice (Glycyrrhiza glabra) | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| Magnesium supplements | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| Malabar nut tree | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Menthol | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| Milk thistle | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| 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 | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ■ |

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### *Key to abbreviations*

| | | | |
|---|---|---|---|
| ATV | Atazanavir (Reyataz®) | IDV | Indinavir (Crixivan®) |
| Cobi | Cobicistat (Tybost®) | LPV | Lopinavir (Kaletra®) |
| DRV | Darunavir (Prezista®) | RTV | Ritonavir (Norvir®) |
| FPV | Fosamprenavir (Telzir®, Lexiva®) | SQV | Saquinavir (Invirase®) |
| | | TPV | Tipranavir (Aptivus®) |

### *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.*

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Pharmacology Research Labs, 1st Floor Block H, 70 Pembroke Place, LIVERPOOL, L69 3GF
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# Interactions with Protease Inhibitors



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

| | ATV | Cobi | DRV | FPV | IDV | LPV | RTV | SQV | TPV |
|---|---|---|---|---|---|---|---|---|---|
| **Hypertension / Heart Failure Agents** | | | | | | | | | |
| Aliskiren | ● | ● | ● | ● | ● | ● | ● | ● | ■ |
| Ambrisentan | ■ | ◆ | ■ | ■ | ■ | ■ | ◆ | ■ | ■ |
| Amiloride | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| Bendroflumethiazide | ✦ | ✦ | ✦ | ✦ | ✦ | ✦ | ✦ | ✦ | ✦ |
| Bosentan | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Candesartan | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| Captopril | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| Chlortalidone | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| Cilazapril | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| Clonidine | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| Digoxin | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Dopamine | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| Doxazosin | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Enalapril | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| Eplenerone | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Epoprostenol | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| Eprosartan | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| Furosemide | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| Hydralazine | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| Hydrochlorothiazide | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| Iloprost | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| Indapamide | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Irbesartan | ▲ | ◆ | ▲ | ▲ | ▲ | ▲ | ▲ | ▲ | ▲ |
| Isosorbide dinitrate | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Ivabradine | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Labetalol | ■ | ◆ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Lacidipine | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Lercanidipine | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Lisinopril | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| Losartan | ▲ | ◆ | ▲ | ▲ | ▲ | ▲ | ▲ | ▲ | ▲ |
| Macitentan | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Methyldopa | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| Metolazone | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| Olmesartan | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| Perindopril | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| Prazosin | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Quinapril | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| Ramipril | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| Ranolazine | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Riociguat | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Sacubitril | ■ | ◆ | ■ | ■ | ■ | ■ | ◆ | ■ | ■ |
| Selexipag | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| Sildenafil (PAH) | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Sodium nitroprusside | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| Spironolactone | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| Tadalafil (PAH) | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ● | ■ |
| Telmisartan | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| Terazosin | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Torasemide | ▲ | ◆ | ▲ | ▲ | ▲ | ▲ | ▲ | ▲ | ▲ |
| Trandolapril | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| Treprostinil | ▲ | ◆ | ▲ | ▲ | ▲ | ▲ | ▲ | ▲ | ▲ |
| Valsartan | ■ | ◆ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Xipamide | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| **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 | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| **Immunosuppressants** | | | | | | | | | |
| Anti-thymocyte globulin | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| Azathioprine | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| Basiliximab | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| Belatacept | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| Ciclosporin | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Mycophenolate | ■ | ◆ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Sirolimus | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Tacrolimus | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| **Lipid Lowering Agents** | | | | | | | | | |
| Atorvastatin | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Bezafibrate | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| Clofibrate | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| Ezetimibe | ■ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| Fenofibrate | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| Fish oils | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| Fluvastatin | ▲ | ▲ | ◆ | ◆ | ▲ | ◆ | ◆ | ▲ | ◆ |
| Gemfibrozil | ▲ | ◆ | ▲ | ▲ | ▲ | ▲ | ▲ | ▲ | ▲ |
| Lovastatin | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Pitavastatin | ▲ | ▲ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| Pravastatin | ▲ | ▲ | ▲ | ◆ | ▲ | ◆ | ◆ | ■ | ▲ |
| Rosuvastatin | ■ | ■ | ▲ | ▲ | ■ | ■ | ■ | ■ | ▲ |
| Simvastatin | ● | ● | ● | ● | ● | ● | ● | ● | ● |

| | ATV | Cobi | DRV | FPV | IDV | LPV | RTV | SQV | TPV |
|---|---|---|---|---|---|---|---|---|---|
| **Other** | | | | | | | | | |
| Acetazolamide | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| Acitretin | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| Adrenaline (Epinephrine) | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| Alendronic Acid | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| Alfuzosin | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Allopurinol | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| Atropine | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| Baclofen | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| Biperiden | ✦ | ✦ | ✦ | ✦ | ✦ | ✦ | ✦ | ✦ | ✦ |
| Caffeine citrate | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| Carbimazole | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| Clomifene | ▲ | ▲ | ▲ | ▲ | ▲ | ▲ | ▲ | ▲ | ■ |
| Colchicine | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Cyproterone acetate | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Denosumab | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| Disulfiram | ◆ | ◆ | ◆ | ■ | ◆ | ■ | ■ | ◆ | ■ |
| Dutasteride | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Finasteride | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| Flibanserin | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Goserelin | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| Ibandronic acid | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| Isotretinoin | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Leuprorelin | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| Levothyroxine | ■ | ◆ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Mannitol | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| Methylphenidate | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| Modafinil | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Naftidrofuryl | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| Naltrexone | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| Neostigmine | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| Nicorandil | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| Orlistat | ▲ | ▲ | ▲ | ▲ | ▲ | ▲ | ▲ | ▲ | ▲ |
| Penicillamine | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| Pentoxifylline | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| Pilocarpine | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| Potassium | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| Probenecid | ■ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| Propylthiouracil | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| Protamine sulphate | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| Pyridostigmine | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| Strontium ranelate | ▲ | ▲ | ▲ | ▲ | ▲ | ▲ | ▲ | ▲ | ▲ |
| Sulfasalazine | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| Tamsulosin | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Thalidomide | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| Tranexamic acid | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| Varenicline | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| Zoledronic acid | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| **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 | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Clobetasol | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Dexamethasone | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Fludrocortisone | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Fluocinolone | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Fluticasone | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Hydrocortisone (oral) | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Hydrocortisone (topical) | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| Megestrol acetate | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| Methylprednisolone | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Mometasone | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Nandrolone | ✦ | ✦ | ✦ | ✦ | ✦ | ✦ | ✦ | ✦ | ✦ |
| Oxandrolone | ✦ | ✦ | ✦ | ✦ | ✦ | ✦ | ✦ | ✦ | ✦ |
| Prednisolone | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Prednisone | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Stanazolol | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Testosterone | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Triamcinolone | ● | ● | ● | ● | ● | ● | ● | ● | ● |

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***Key to abbreviations***

| | | | |
|---|---|---|---|
| ATV | Atazanavir (Reyataz®) | IDV | Indinavir (Crixivan®) |
| Cobi | Cobicistat (Tybost®) | LPV | Lopinavir (Kaletra®) |
| DRV | Darunavir (Prezista®) | RTV | Ritonavir (Norvir®) |
| FPV | Fosamprenavir (Telzir®, Lexiva®) | SQV | Saquinavir (Invirase®) |
| | | TPV | Tipranavir (Aptivus®) |

***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.*

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Pharmacology Research Labs, 1st Floor Block H, 70 Pembroke Place, LIVERPOOL, L69 3GF
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