HCV Directly Acting Antivirals & RBV

Charts revised January 2020. Full information available at www.hep-druginteractions.org

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

DCV, Daclatasvir; EBR/GZR, Elbasvir/Grazoprevir; GLP/PIB, Glecaprevir/Pibrentasvir; LED, Ledipasvir; OBV/PTV/r + DSV, Ombitasvir/Paritaprevir/Ritonavir + Dasabuvir; SMV, Simeprevir; SOF, Sofosbuvir; VEL, Velpatasvir; VOX, Voxilaprevir; RBV, Ribavirin.

	DCV	EBR/ GZR	GLP/ PIB	LED/ SOF	OBV/ PTV/r	OBV/ PTV/r +DSV	SMV	SOF	SOF/ VEL	SOF/ VEL/ VOX	RBV
Anaesthetics & Muscle Relaxants											
Bupivacaine	◆	◆	◆	◆	■	■	■	◆	◆	◆	◆
Cisatracurium	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Isoflurane	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Ketamine	◆	◆	◆	◆	■	■	■	◆	◆	◆	◆
Nitrous oxide	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Propofol	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Thiopental	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Tizanidine	◆	◆	◆	◆	■	■	◆	◆	◆	◆	◆
Analgesics											
Aceclofenac	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Alfentanil	◆	◆	■	◆	■	■	■	◆	◆	◆	◆
Aspirin	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Buprenorphine	◆	◆	◆	◆	■	■	◆	◆	◆	◆	◆
Celecoxib	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	■
Codeine	◆	◆	◆	◆	▲	▲	■	◆	◆	◆	◆
Dexketoprofen	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Dextropropoxyphene	◆	◆	◆	◆	●	●	●	◆	◆	◆	◆
Diamorphine	◆	◆	◆	◆	■	■	◆	◆	◆	◆	◆
Diclofenac	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Diflunisal	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Dihydrocodeine	◆	◆	◆	◆	▲	▲	■	◆	◆	◆	◆
Etoricoxib	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Fentanyl	◆	■	■	◆	■	■	■	◆	◆	◆	◆
Flurbiprofen	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Hydrocodone	◆	◆	■	◆	■	■	■	◆	◆	◆	◆
Hydromorphone	◆	◆	◆	◆	■	■	◆	◆	◆	◆	◆
Ibuprofen	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Indometacin	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Ketoprofen	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Mefenamic acid	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Meloxicam	◆	◆	◆	◆	▲	▲	◆	◆	◆	◆	◆
Metamizole (Dipyrone)	■	■	■	◆	■	■	■	◆	■	■	●
Methadone	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Morphine	◆	◆	◆	◆	■	■	◆	◆	◆	◆	◆
Naproxen	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Oxycodone	◆	■	■	◆	■	■	■	◆	◆	◆	◆
Paracetamol	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Pethidine (Meperidine)	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Piroxicam	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Tapentadol	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Tramadol	◆	◆	◆	◆	▲	▲	■	◆	◆	◆	◆
Anthelmintics											
Albendazole	◆	◆	◆	◆	■	■	■	◆	◆	◆	◆
Ivermectin	◆	◆	◆	◆	■	■	■	◆	◆	◆	◆
Oxamniquine	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Praziquantel	◆	◆	◆	◆	■	■	■	◆	◆	◆	◆
Pyrantel	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Antiarrhythmics											
Amiodarone	●	■	■	●	●	●	■	●	●	●	◆
Bepridil	◆	◆	◆	◆	■	■	■	◆	◆	◆	◆
Digoxin	■	◆	■	■	■	■	■	◆	■	■	◆
Disopyramide	◆	◆	◆	◆	●	●	■	◆	◆	◆	◆
Dofetilide	◆	◆	◆	◆	●	●	■	◆	◆	◆	◆
Dronedarone	●	■	■	●	●	●	●	●	●	●	◆
Flecainide	◆	◆	◆	◆	■	■	■	◆	◆	◆	◆
Lidocaine (Lignocaine)	◆	◆	◆	◆	■	■	■	◆	◆	◆	◆
Mexiletine	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Propafenone	◆	◆	◆	◆	■	■	■	◆	◆	◆	◆
Quinidine	■	■	■	■	●	●	■	◆	■	■	◆
Vernakalant	◆	◆	◆	◆	■	■	◆	◆	◆	◆	◆
Antibacterials											
Amikacin	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Amoxicillin	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Ampicillin	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Azithromycin	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Aztreonam	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Bedaquiline	◆	■	■	■	■	■	■	◆	◆	◆	◆
Benzylpenicillin	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Capreomycin	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Cefaclor	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Cefadroxil	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Cefalexin	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Cefazolin	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Cefixime	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Cefotaxime	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Cefradine	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Ceftaroline	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Ceftazidime	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Ceftriaxone	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Cefuroxime	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Chloramphenicol	▲	◆	◆	◆	■	■	■	◆	◆	◆	◆
Ciprofloxacin	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Clarithromycin	■	◆	▲	◆	●	●	●	◆	◆	▲	◆
Clavulanic acid	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Clindamycin	◆	◆	◆	◆	■	■	■	◆	◆	◆	◆
Clofazimine	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆

	DCV	EBR/ GZR	GLP/ PIB	LED/ SOF	OBV/ PTV/r	OBV/ PTV/r +DSV	SMV	SOF	SOF/ VEL	SOF/ VEL/ VOX	RBV
Antibacterials (continued)											
Cloxacillin	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Dapsone	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Delamanid	◆	◆	◆	◆	■	■	◆	◆	◆	◆	◆
Ertapenem	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Erythromycin	■	◆	■	◆	■	■	●	◆	◆	■	◆
Ethambutol	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Flucloxacillin	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Gentamicin	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Imipenem	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Isoniazid	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
Levofloxacin	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Linezolid	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	■
Lymecycline	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Meropenem	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Methenamine	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Metronidazole	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Moxifloxacin	◆	◆	◆	◆	■	■	◆	◆	◆	◆	◆
Nitrofurantoin	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Norfloxacin	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Ofloxacin	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Penicillin V	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Piperacillin	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Pivmecillinam	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Pyrazinamide	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Rifabutin	●	●	●	●	■	■	●	●	●	●	◆
Rifampicin	●	●	●	●	●	●	●	●	●	●	◆
Rifapentine	●	●	●	●	■	■	●	●	●	●	◆
Rifaximin	◆	■	■	◆	■	■	◆	◆	◆	■	◆
Spectinomycin	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Streptomycin	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Sulfadiazine	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Tazobactam	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Telithromycin	■	■	■	■	●	●	●	◆	◆	■	◆
Temocillin	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Tetracyclines	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Ticarcillin	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Trimethoprim/Sulfamethoxazole	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Troleandomycin	■	●	●	◆	■	■	●	◆	■	●	◆
Vancomycin	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Anticoagulant, Antiplatelet & Fibrinolytic											
Acenocoumarol	◆	◆	■	◆	■	■	◆	◆	◆	◆	◆
Anagrelide	◆	◆	◆	◆	■	■	◆	◆	◆	◆	◆
Apixaban	■	■	■	■	●	●	■	◆	■	■	◆
Clopidogrel	◆	◆	◆	◆	●	●	■	◆	◆	◆	◆
Dabigatran	■	■	●	■	■	■	■	◆	■	●	◆
Dalteparin	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Danaparoid	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Dipyridamole	◆	◆	◆	◆	▲	▲	◆	◆	◆	◆	◆
Edoxaban	■	■	■	■	■	■	■	◆	■	●	◆
Eltrombopag	■	●	●	◆	◆	◆	■	◆	▲	●	◆
Enoxaparin	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Fluindione	◆	◆	■	◆	■	■	◆	◆	◆	■	◆
Fondaparinux	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Heparin	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Phenprocoumon	◆	■	■	■	■	■	■	◆	◆	■	◆
Prasugrel	◆	◆	◆	◆	■	■	▲	◆	◆	◆	◆
Rivaroxaban	■	■	■	■	●	●	■	◆	■	■	◆
Streptokinase	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Ticagrelor	■	■	■	■	●	●	■	◆	■	■	◆
Ticlopidine	◆	◆	◆	◆	■	■	■	◆	◆	◆	◆
Tinzaparin	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Warfarin	■	■	■	■	■	■	■	■	■	■	■
Anticonvulsants											
Carbamazepine	●	●	●	●	●	●	●	●	●	●	◆
Clonazepam	◆	◆	◆	◆	■	■	■	◆	◆	◆	◆
Eslicarbazepine	●	●	●	●	●	●	●	◆	●	●	◆
Ethosuximide	◆	◆	◆	◆	■	■	■	◆	◆	◆	◆
Gabapentin	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Lacosamide	◆	◆	◆	◆	■	■	■	◆	◆	◆	◆
Lamotrigine	◆	◆	◆	◆	■	■	◆	◆	◆	◆	◆
Levetiracetam	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Oxcarbazepine	●	●	●	●	●	●	●	●	●	●	◆
Perampanel	▲	◆	◆	◆	■	■	■	◆	◆	◆	◆
Phenobarbital	●	●	●	●	●	●	●	●	●	●	◆
Phenytoin	●	●	●	●	●	●	●	●	●	●	◆
Pregabalin	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Primidone	●	●	●	●	●	●	●	●	●	●	◆
Retigabine	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Rufinamide	●	■	■	●	■	■	●	●	●	●	◆
Sultiame	◆	◆	◆	◆	■	■	■	◆	◆	◆	◆
Tiagabine	◆	◆	◆	◆	■	■	■	◆	◆	◆	◆
Topiramate	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Valproate (Divalproex)	◆	◆	◆	◆	■	■	◆	◆	◆	◆	◆
Vigabatrin	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Zonisamide	■	◆	◆	■	◆	◆	■	◆	◆	◆	◆

For personal use only. Not for distribution.

For personal use only. Not for distribution.

For personal use only. Not for distribution.

Key to symbols

●	These drugs should not be coadministered
■	Potential clinically significant interaction that is likely to require additional 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

Notes

- Further information is available at www.hep-druginteractions.org
- Predicted interactions are based on known metabolic pathways and routes of clearance.
- Caution is required in patients with hepatic impairment as this may also increase drug levels and require dose modification.
- Where advice differs between countries, the charts reflect the more cautious option.

© Liverpool Drug Interactions 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.

HCV Directly Acting Antivirals & RBV

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

DCV, Daclatasvir; EBR/GZR, Elbasvir/Grazoprevir; GLP/PIB, Glecaprevir/Pibrentasvir; LED, Ledipasvir; OBV/PTV/r + DSV, Ombitasvir/Paritaprevir/Ritonavir + Dasabuvir; SMV, Simeprevir; SOF, Sofosbuvir; VEL, Velpatasvir; VOX, Voxilaprevir; RBV, Ribavirin.

	DCV	EBR/ GZR	GLP/ PIB	LED/ SOF	OBV/ PTV/r	OBV/ PTV/r +DSV	SMV	SOF	SOF/ VEL	SOF/ VEL/ VOX	RBV
Antidepressants											
Agomelatine	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Amitriptyline	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Bupropion	◆	◆	◆	◆	△	△	◆	◆	◆	◆	◆
Citalopram	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Clomipramine	◆	◆	◆	◆	■	■	◆	◆	◆	◆	◆
Desipramine	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Desvenlafaxine	◆	◆	◆	◆	△	△	△	◆	◆	◆	◆
Dosulepin	◆	◆	◆	◆	■	■	■	◆	◆	◆	◆
Doxepin	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Duloxetine	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Escitalopram	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Fluoxetine	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Fluvoxamine	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Imipramine	◆	◆	◆	◆	■	■	■	◆	◆	◆	◆
Lithium	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Maprotiline	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Mianserin	◆	△	△	◆	■	■	△	◆	◆	◆	◆
Milnacipran	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Mirtazapine	◆	◆	◆	◆	■	■	■	◆	◆	◆	◆
Moclobemide	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Nefazodone	■	◆	◆	◆	■	■	■	◆	◆	◆	◆
Nortriptyline	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Paroxetine	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Sertraline	◆	◆	◆	◆	△	△	◆	◆	◆	◆	◆
Tianeptine	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Trazodone	◆	◆	◆	◆	■	■	■	◆	◆	◆	◆
Trimipramine	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Venlafaxine	◆	◆	◆	◆	■	■	◆	◆	◆	◆	◆
Vortioxetine	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Antidiabetics											
Acarbose	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Albiglutide	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Alogliptin	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Canagliflozin	◆	◆	◆	◆	■	■	◆	◆	◆	◆	◆
Dapagliflozin	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Dulaglutide	◆	◆	△	■	◆	◆	◆	◆	■	■	◆
Empagliflozin	◆	◆	◆	◆	◆	◆	◆	◆	■	■	◆
Exenatide	◆	◆	△	■	◆	◆	◆	◆	■	■	◆
Glibenclamide (Glyburide)	◆	◆	■	◆	■	■	■	◆	◆	◆	◆
Gliclazide	◆	◆	◆	◆	■	■	◆	◆	◆	◆	◆
Glimepiride	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Glipizide	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Insulin	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Linagliptin	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Liraglutide	◆	◆	△	■	◆	◆	◆	◆	■	■	◆
Lixisenatide	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Metformin	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Nateglinide	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Pioglitazone	◆	◆	◆	◆	■	■	△	◆	◆	◆	◆
Repaglinide	■	◆	■	◆	■	■	■	◆	△	■	◆
Rosiglitazone	◆	◆	◆	◆	■	■	◆	◆	◆	◆	◆
Saxagliptin	◆	◆	◆	◆	■	■	■	◆	◆	◆	◆
Sitagliptin	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Tolbutamide	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Vildagliptin	◆	◆	△	◆	◆	◆	◆	◆	◆	■	◆
Antifungals											
Amphotericin B	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	■
Anidulafungin	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Caspofungin	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Fluconazole	◆	◆	◆	◆	◆	◆	●	◆	◆	◆	◆
Flucytosine	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Griseofulvin	◆	◆	◆	◆	■	■	■	◆	◆	◆	◆
Isavuconazole	△	◆	◆	◆	■	■	●	◆	◆	◆	◆
Itraconazole	■	◆	◆	◆	●	●	●	◆	◆	◆	◆
Ketoconazole	■	■	■	◆	●	●	●	◆	◆	◆	◆
Miconazole	△	◆	◆	△	◆	◆	△	◆	◆	◆	◆
Nystatin	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Posaconazole	■	◆	■	◆	●	●	●	◆	◆	◆	◆
Terbinafine	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Voriconazole	■	◆	◆	◆	●	●	●	◆	◆	◆	◆

	DCV	EBR/ GZR	GLP/ PIB	LED/ SOF	OBV/ PTV/r	OBV/ PTV/r +DSV	SMV	SOF	SOF/ VEL	SOF/ VEL/ VOX	RBV
Antihistamines											
Astemizole	◆	◆	■	◆	●	●	●	◆	◆	◆	◆
Bilastine	■	■	△	■	■	◆	■	◆	■	■	◆
Cetirizine	△	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Chlorphenamine	◆	◆	◆	◆	△	△	◆	◆	◆	◆	◆
Desloratadine	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Diphenhydramine	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Doxylamine	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Ebastine	◆	■	■	◆	■	■	■	◆	◆	◆	◆
Fexofenadine	■	◆	△	◆	■	■	■	◆	◆	△	◆
Hydroxyzine	◆	◆	◆	◆	◆	◆	■	◆	◆	◆	◆
Levocetirizine	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Loratadine	◆	◆	◆	◆	△	△	◆	◆	◆	◆	◆
Promethazine	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Terfenadine	◆	◆	■	◆	●	●	●	◆	◆	◆	◆
Antimigraine Agents											
Almotriptan	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Dihydroergotamine	◆	■	■	■	●	●	●	◆	◆	◆	◆
Eletriptan	◆	◆	◆	◆	●	●	■	◆	◆	◆	◆
Ergotamine	◆	■	■	■	●	●	●	◆	◆	◆	◆
Frovatriptan	◆	◆	◆	◆	■	■	◆	◆	◆	◆	◆
Methylergonovine	◆	■	■	■	●	●	●	◆	◆	◆	◆
Naratriptan	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Pizotifen	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Rizatriptan	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Sumatriptan	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Zolmitriptan	◆	◆	◆	◆	■	■	◆	◆	◆	◆	◆
Antiprotozoals											
Amodiaquine	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Artemether	◆	◆	◆	◆	■	■	■	◆	◆	◆	◆
Artemisinin	■	■	◆	◆	■	■	■	◆	■	■	◆
Artesunate	■	■	◆	◆	■	■	■	◆	■	■	◆
Atovaquone	◆	◆	◆	◆	■	■	◆	◆	◆	◆	■
Chloroquine	◆	◆	◆	◆	◆	◆	■	◆	◆	◆	◆
Dihydroartemisinin	■	■	◆	◆	■	■	■	◆	■	■	◆
Doxycycline	◆	◆	◆	◆	◆	◆	△	◆	◆	◆	◆
Halofantrine	◆	◆	◆	◆	●	●	■	◆	◆	◆	◆
Hydroxychloroquine	◆	◆	◆	◆	◆	◆	■	◆	◆	◆	◆
Lumefantrine	◆	◆	◆	◆	●	●	■	◆	◆	◆	◆
Mefloquine	■	◆	■	■	■	■	■	◆	◆	■	◆
Pentamidine	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Primaquine	△	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Proguanil	◆	◆	◆	◆	■	■	◆	◆	◆	◆	◆
Pyrimethamine	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Quinine	■	△	■	■	■	■	■	◆	◆	■	◆
Sodium stibogluconate	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Sulfadoxine	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Antipsychotics/Neuroleptics											
Amisulpride	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Aripiprazole	◆	■	■	◆	■	■	■	◆	◆	◆	◆
Asenapine	◆	◆	◆	◆	■	■	◆	◆	◆	◆	◆
Chlorpromazine	◆	◆	◆	◆	△	△	◆	◆	◆	◆	◆
Chlorprothixene	◆	◆	◆	◆	■	■	◆	◆	◆	◆	◆
Clozapine	◆	◆	■	◆	■	■	■	◆	◆	◆	■
Flupentixol	◆	◆	◆	◆	■	■	◆	◆	◆	◆	◆
Fluphenazine	◆	◆	◆	◆	△	△	◆	◆	◆	◆	◆
Haloperidol	◆	◆	◆	◆	■	■	■	◆	◆	◆	◆
Iloperidone	◆	◆	◆	◆	■	■	■	◆	◆	◆	◆
Levomepromazine	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Olanzapine	◆	◆	◆	◆	■	■	◆	◆	◆	◆	◆
Paliperidone	■	◆	■	■	■	◆	■	◆	◆	■	◆
Perazine	◆	◆	◆	◆	■	■	■	◆	◆	◆	◆
Periciazine	◆	◆	◆	◆	△	△	◆	◆	◆	◆	◆
Perphenazine	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Pimozide	◆	●	●	●	●	●	●	◆	◆	◆	◆
Pipotiazine	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Prochlorperazine	◆	◆	◆	◆	△	△	◆	◆	◆	◆	◆
Quetiapine	◆	■	■	◆	●	●	■	◆	◆	◆	◆
Risperidone	◆	◆	◆	◆	■	■	△	◆	◆	◆	◆
Sulpiride	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Thioridazine	◆	◆	■	◆	△	△	△	◆	◆	◆	◆
Tiapride	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Trifluoperazine	◆	◆	◆	◆	△	△	◆	◆	◆	◆	◆
Ziprasidone	◆	◆	◆	◆	■	■	●	◆	◆	◆	◆
Zuclopentixol	◆	◆	◆	◆	■	■	◆	◆	◆	◆	◆

For personal use only. Not for distribution.

For personal use only. Not for distribution.

For personal use only. Not for distribution.

Key to symbols

●	These drugs should not be coadministered
■	Potential clinically significant interaction that is likely to require additional 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

Notes

- Further information is available at www.hep-druginteractions.org
- Predicted interactions are based on known metabolic pathways and routes of clearance.
- Caution is required in patients with hepatic impairment as this may also increase drug levels and require dose modification.
- Where advice differs between countries, the charts reflect the more cautious option.

© Liverpool Drug Interactions 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.

HCV Directly Acting Antivirals & RBV

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

DCV, Daclatasvir; EBR/GZR, Elbasvir/Grazoprevir; GLP/PIB, Glecaprevir/Pibrentasvir; LED, Ledipasvir; OBV/PTV/r + DSV, Ombitasvir/Paritaprevir/Ritonavir + Dasabuvir; SMV, Simeprevir; SOF, Sofosbuvir; VEL, Velpatasvir; VOX, Voxilaprevir; RBV, Ribavirin.

	DCV	EBR/ GZR	GLP/ PIB	LED/ SOF	OBV/ PTV/r	OBV/ PTV/r +DSV	SMV	SOF	SOF/ VEL	SOF/ VEL/ VOX	RBV
Antivirals											
Aciclovir	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Amantadine	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	■
Brivudine	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Cidofovir	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	■
Foscarnet	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Oseltamivir	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Rimantadine	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Valaciclovir	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Zanamivir	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Anxiolytics/Hypnotics/Sedatives											
Alprazolam	◆	◆	◆	◆	■	■	■	◆	◆	◆	◆
Amobarbital	●	●	●	●	●	●	●	●	●	●	◆
Bromazepam	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Bromperidol	◆	◆	◆	◆	■	■	■	◆	◆	◆	◆
Buspirone	◆	◆	◆	◆	■	■	■	◆	◆	◆	◆
Clobazam	◆	◆	◆	◆	■	■	■	◆	△	△	◆
Clorazepate	◆	◆	◆	◆	■	■	■	◆	◆	◆	◆
Clotiapine	◆	△	△	△	■	■	■	◆	◆	◆	◆
Diazepam	◆	◆	◆	◆	■	■	■	◆	◆	◆	◆
Estazolam	◆	◆	◆	◆	■	■	■	◆	◆	◆	◆
Flurazepam	◆	◆	◆	◆	■	■	◆	◆	◆	◆	◆
Lorazepam	◆	◆	◆	◆	■	■	◆	◆	◆	◆	◆
Lormetazepam	◆	◆	◆	◆	■	■	◆	◆	◆	◆	◆
Midazolam (oral)	◆	■	◆	■	●	●	■	◆	◆	◆	◆
Midazolam (parenteral)	◆	■	◆	■	■	■	◆	◆	◆	◆	◆
Oxazepam	◆	◆	◆	◆	■	■	◆	◆	◆	◆	◆
Quazepam	◆	◆	◆	◆	■	■	■	◆	◆	◆	◆
Temazepam	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Triazolam	◆	◆	◆	◆	●	●	■	◆	◆	◆	◆
Zaleplon	◆	◆	◆	◆	■	■	■	◆	◆	◆	◆
Zolpidem	◆	◆	◆	◆	◆	◆	■	◆	◆	◆	◆
Zopiclone	◆	◆	◆	◆	■	■	■	◆	◆	◆	◆
Beta Blockers											
Atenolol	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Bisoprolol	◆	◆	◆	◆	■	■	■	◆	◆	◆	◆
Carvedilol	■	◆	■	■	■	■	■	◆	■	■	■
Celiprolol	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Labetalol	◆	◆	◆	◆	■	■	◆	◆	◆	◆	◆
Metoprolol	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Nebivolol	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Oxprenolol	◆	◆	◆	◆	■	■	◆	◆	◆	◆	◆
Pindolol	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Propranolol	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Sotalol	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Timolol	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Bisphosphonates											
Alendronic acid	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Clodronate	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Ibandronic acid	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Pamidronate	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Risedronate	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Bronchodilators											
Formoterol	◆	◆	◆	◆	△	△	◆	◆	◆	◆	◆
Indacaterol	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Ipratropium bromide	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Montelukast	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Omalizumab	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Salbutamol	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Salmeterol	◆	◆	◆	◆	●	●	■	◆	◆	◆	◆
Theophylline	◆	◆	■	◆	■	■	■	◆	◆	◆	◆
Tiotropium	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Calcium Channel Blockers											
Amlodipine	■	◆	◆	■	■	■	■	◆	◆	◆	◆
Diltiazem	■	◆	■	■	■	■	■	◆	■	■	◆
Felodipine	■	■	◆	■	■	■	■	◆	◆	◆	◆
Nicardipine	■	◆	◆	◆	■	■	■	◆	◆	◆	◆
Nifedipine	■	◆	◆	◆	■	■	■	◆	◆	◆	◆
Nisoldipine	■	◆	◆	◆	■	■	■	◆	◆	◆	◆
Nitrendipine	◆	◆	◆	◆	■	■	■	◆	◆	◆	◆
Verapamil	■	◆	■	◆	■	■	■	◆	◆	■	◆

	DCV	EBR/ GZR	GLP/ PIB	LED/ SOF	OBV/ PTV/r	OBV/ PTV/r +DSV	SMV	SOF	SOF/ VEL	SOF/ VEL/ VOX	RBV
Cancer Therapies											
Abiraterone	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Acalabrutinib	◆	■	■	■	●	●	■	◆	■	■	■
Anastrozole	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	■
Avelumab	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	■
Axitinib	◆	△	△	◆	●	●	△	◆	◆	◆	■
Bevacizumab	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	■
Blinatumomab	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	■
Bortezomib	◆	◆	◆	◆	■	■	■	◆	◆	◆	■
Bosutinib	◆	■	■	◆	●	●	■	◆	◆	◆	■
Brentuximab vedotin	◆	△	△	◆	■	■	△	◆	◆	◆	■
Capecitabine	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	■
Carboplatin	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	■
Cetuximab	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Chlorambucil	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	■
Cisplatin	◆	◆	◆	◆	■	■	◆	◆	◆	◆	■
Daratumumab	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	■
Dasatinib	■	◆	◆	◆	■	■	■	◆	◆	◆	◆
Doxorubicin	◆	◆	■	◆	◆	◆	◆	◆	◆	◆	■
Erlotinib	■	■	■	■	●	●	■	◆	■	■	◆
Estramustine	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Etoposide	◆	◆	◆	◆	■	■	■	◆	◆	◆	■
Everolimus	■	■	■	■	●	●	■	◆	■	■	◆
Exemestane	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Fludarabine	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	■
Gefitinib	◆	◆	◆	◆	■	■	■	◆	◆	◆	◆
Gemcitabine	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	■
Idarubicin	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	■
Imatinib	◆	■	■	◆	■	■	■	◆	■	●	■
Ipilimumab	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	■
Irinotecan	■	■	■	■	■	■	■	◆	■	●	■
Ixazomib	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	■
Lapatinib	■	■	■	■	■	■	■	◆	■	●	◆
Letrozole	◆	◆	◆	◆	■	■	■	◆	◆	◆	◆
Mercaptopurine	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	●
Mesna	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Methotrexate	■	■	■	◆	◆	◆	◆	◆	■	●	■
Mitoxantrone	■	■	■	■	■	■	■	◆	■	●	■
Nilotinib	■	■	■	◆	■	■	■	◆	■	●	◆
Niraparib	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	■
Nivolumab	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	■
Obinutuzumab	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Ofatumumab	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	■
Olaratumab	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	■
Oxaliplatin	◆	◆	◆	◆	■	■	◆	◆	◆	◆	■
Paclitaxel	◆	■	■	◆	■	■	■	◆	◆	◆	■
Panitumumab	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Rituximab	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	■
Sorafenib	◆	◆	◆	◆	■	■	■	◆	◆	◆	■
Sunitinib	◆	◆	■	◆	■	■	■	◆	◆	◆	■
Tamoxifen	◆	◆	◆	◆	■	■	■	◆	△	△	◆
Temsirolimus	■	■	■	■	■	■	■	◆	■	■	◆
Vinblastine	◆	■	●	◆	■	■	■	◆	■	●	■
Vincristine	◆	■	●	◆	■	■	■	◆	■	●	■
Vinorelbine	■	■	■	■	■	■	■	◆	■	■	■
Contraceptives and Hormone Replacements											
Desogestrel	◆	◆	◆	◆	■	■	◆	◆	◆	◆	◆
Dienogest	◆	◆	◆	◆	■	■	◆	◆	◆	◆	◆
Drospirenone	◆	◆	◆	◆	◆	◆	■	◆	◆	◆	◆
Estradiol	◆	◆	△	◆	■	■	◆	◆	△	△	◆
Ethinylestradiol	◆	◆	●	◆	●	●	◆	◆	◆	●	◆
Etonogestrel (implant)	◆	◆	◆	◆	△	△	◆	◆	◆	◆	◆
Etonogestrel (vaginal ring)	◆	◆	●	◆	●	●	◆	◆	◆	●	◆
Levonorgestrel (COC)	◆	◆	●	◆	●	●	◆	◆	△	●	◆
Levonorgestrel (Emergency Contraception)	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Levonorgestrel (HRT)	◆	◆	△	◆	■	■	◆	◆	△	△	◆
Levonorgestrel (implant)	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Levonorgestrel (IUD)	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Levonorgestrel (POP)	◆	△	△	◆	△	△	◆	◆	◆	◆	◆
Medroxyprogesterone (depot)	◆	◆	◆	◆	△	△	◆	◆	◆	◆	◆
Medroxyprogesterone (oral)	◆	◆	◆	◆	△	△	◆	◆	◆	◆	◆
Norethisterone (norethindrone)	◆	◆	◆	◆	■	■	◆	◆	◆	◆	◆

For personal use only. Not for distribution.

For personal use only. Not for distribution.

For personal use only. Not for distribution.

Key to symbols

●	These drugs should not be coadministered
■	Potential clinically significant interaction that is likely to require additional 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

Notes

- Further information is available at www.hep-druginteractions.org
- Predicted interactions are based on known metabolic pathways and routes of clearance.
- Caution is required in patients with hepatic impairment as this may also increase drug levels and require dose modification.
- Where advice differs between countries, the charts reflect the more cautious option.

© Liverpool Drug Interactions 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.

HCV Directly Acting Antivirals & RBV

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

DCV, Daclatasvir; EBR/GZR, Elbasvir/Grazoprevir; GLP/PIB, Glecaprevir/Pibrentasvir; LED, Ledipasvir; OBV/PTV/r + DSV, Ombitasvir/Paritaprevir/Ritonavir + Dasabuvir; SMV, Simeprevir; SOF, Sofosbuvir; VEL, Velpatasvir; VOX, Voxilaprevir; RBV, Ribavirin.

	DCV	EBR/ GZR	GLP/ PIB	LED/ SOF	OBV/ PTV/r	OBV/ PTV/r +DSV	SMV	SOF	SOF/ VEL	SOF/ VEL/ VOX	RBV
Erectile Dysfunction Agents											
Sildenafil	◆	◆	◆	◆	■	■	◆	◆	◆	◆	◆
Tadalafil	◆	◆	◆	◆	■	■	◆	◆	◆	◆	◆
Vardenafil	◆	◆	◆	◆	■	■	◆	◆	◆	◆	◆
Gastrointestinal Agents											
Aluminium hydroxide	◆	◆	◆	■	◆	◆	◆	△	■	■	◆
Alverine citrate	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Antacids	◆	◆	◆	■	◆	◆	◆	△	■	■	◆
Aprepitant	△	◆	◆	◆	■	■	■	◆	◆	◆	◆
Bisacodyl	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Cimetidine	△	◆	△	■	◆	◆	◆	◆	■	■	◆
Cisapride	◆	■	■	■	●	●	●	◆	◆	◆	◆
Cyclizine	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Dantron	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Domperidone	◆	◆	■	◆	●	●	■	◆	◆	◆	◆
Droperidol	◆	◆	■	◆	■	■	■	◆	◆	◆	◆
Esomeprazole	◆	◆	△	■	△	△	◆	◆	■	■	◆
Famotidine	◆	◆	△	■	◆	◆	◆	◆	■	■	◆
Granisetron	◆	△	△	◆	■	■	△	◆	◆	◆	◆
Hyoscine	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Ispaghula husk	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Lactulose	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Lansoprazole	◆	◆	△	■	△	△	◆	◆	■	■	◆
Linaclotide	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Loperamide	■	△	△	■	■	◆	■	◆	◆	△	◆
Lubiprostone	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Macrogol	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Mebeverine	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Mesalazine	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Methylcellulose	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Metoclopramide	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Naloxegol	◆	◆	◆	◆	●	●	◆	◆	◆	◆	◆
Omeprazole	◆	◆	△	■	△	△	◆	◆	■	■	◆
Ondansetron	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Pantoprazole	◆	◆	△	■	△	△	◆	◆	■	■	◆
Prucalopride	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Rabeprazole	◆	◆	△	■	△	△	◆	◆	■	■	◆
Ranitidine	◆	◆	△	■	◆	◆	◆	◆	■	■	◆
Senna	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Simeticone	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Sulfasalazine	◆	◆	■	◆	■	■	◆	◆	■	●	◆
Trimebutine	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
HCC Therapies											
Pembrolizumab	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	■
Hepatitis Drugs											
Adefovir	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Daclatasvir		●	●	◆	●	●	◆	◆	●	●	◆
Elbasvir/Grazoprevir	●		●	●	●	●	●	◆	●	●	◆
Glecaprevir/Pibrentasvir	●	●		●	●	●	●	◆	●	●	◆
Entecavir	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Lamivudine	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	■
Ledipasvir/Sofosbuvir	◆	●	●		●	●	●	●	●	●	◆
OBV/PTV/r	●	●	●	●		n/a	●	●	●	●	◆
OBV/PTV/r + DSV	●	●	●	●	n/a		●	◆	●	●	◆
Peginterferon alfa-2a	◆	■	■	■	■	■	◆	◆	■	■	◆
Peginterferon alfa-2b	◆	■	■	■	■	■	◆	◆	■	■	◆
Ribavirin	◆	◆	◆	◆	◆	◆	◆	◆	◆	■	
Simeprevir	◆	●	●	●	●	●		◆	△	●	◆
Sofosbuvir	◆	◆	◆	●	●	◆	◆		●	●	◆
SOF/Velpatasvir	●	●	●	●	●	●	△	●		●	◆
SOF/Velpatasvir/Voxilaprevir	●	●	●	●	●	●	●	●	●		■
Telbivudine	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Tenofovir alafenamide	◆	◆	◆	◆	■	■	◆	◆	◆	◆	■
Tenofovir-DF	◆	◆	◆	■	◆	◆	◆	◆	■	■	■

	DCV	EBR/ GZR	GLP/ PIB	LED/ SOF	OBV/ PTV/r	OBV/ PTV/r +DSV	SMV	SOF	SOF/ VEL	SOF/ VEL/ VOX	RBV
Herbals/Supplements/Vitamins											
Aloe vera	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Ascorbic acid (Vitamin C)	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Black cohosh	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Cat's claw (U. tomentosa)	■	◆	◆	◆	●	●	●	◆	◆	◆	◆
Colecalciferol (Vitamin D3)	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Cyanocobalamin (B12)	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Diosmin	◆	◆	◆	◆	◆	■	◆	◆	◆	◆	◆
Echinacea	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Eucalyptus globulus	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Folic acid	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Garlic	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Ginger (Z. officinale)	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Ginkgo biloba	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Ginseng	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Goldenseal (H. canadensis)	■	■	■	◆	■	■	■	◆	◆	◆	◆
Grape seed extract	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Grapefruit juice	■	◆	◆	◆	■	■	■	◆	◆	◆	◆
Green tea (C. sinensis)	△	△	△	◆	△	△	△	◆	◆	◆	◆
Homeopathic remedies	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Inula racemosa	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Iodine	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Iron supplements	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Kava kava	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Milk thistle	◆	◆	◆	◆	◆	◆	●	◆	◆	◆	◆
Retinol (Vitamin A)	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Riboflavin (Vitamin B2)	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Serenoa repens	■	◆	◆	◆	■	■	■	◆	◆	◆	◆
St John's wort	●	●	●	●	●	●	●	●	●	●	◆
Thiamine (Vitamin B1)	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Turmeric (curcumin)	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Valerian	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Vitamin E	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
HIV Drugs											
Entry/Integrase Inhibitors											
Bictegravir/FTC/TAF	◆	◆	△	◆	■	■	◆	◆	◆	◆	■
Dolutegravir	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Dolutegravir/rilpivirine	◆	◆	◆	◆	■	■	◆	◆	◆	◆	◆
Elvitegravir/cobi /FTC/TAF	■	●	◆	◆	●	●	●	◆	◆	◆	■
Elvitegravir/cobi/FTC/TDF	■	●	◆	■	●	●	●	◆	■	■	■
Ibalizumab-uiyk	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Maraviroc	◆	◆	◆	◆	■	■	◆	◆	◆	◆	◆
Raltegravir	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
NNRTIs											
Doravirine	◆	◆	◆	◆	△	△	◆	◆	◆	◆	◆
Doravirine/3TC/TDF	◆	◆	◆	■	△	△	◆	◆	■	■	■
Efavirenz	■	●	●	■	●	●	●	◆	●	●	◆
Etravirine	■	●	●	◆	●	●	●	◆	●	●	◆
Nevirapine	■	●	●	◆	●	●	●	◆	●	●	◆
Rilpivirine	◆	◆	◆	◆	■	■	◆	◆	◆	◆	◆
Rilpivirine/dolutegravir	◆	◆	◆	◆	■	■	◆	◆	◆	◆	◆
Rilpivirine/FTC/TAF	◆	◆	◆	◆	■	■	◆	◆	◆	◆	◆
NRTIs											
Abacavir	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	■
Didanosine	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	●
Emtricitabine (FTC)	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	■
Emtricitabine + TAF	◆	◆	◆	◆	■	■	◆	◆	◆	◆	■
Emtricitabine + TDF	◆	◆	◆	■	◆	◆	◆	◆	■	■	◆
Lamivudine	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	■
Stavudine	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	●
Tenofovir-DF (TDF)	◆	◆	◆	■	◆	◆	◆	◆	■	■	■
Zidovudine	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	●
Protease Inhibitors											
Atazanavir alone	◆	●	●	◆	■	■	●	◆	◆	●	■
Atazanavir/cobicistat	■	●	●	◆	●	●	●	◆	◆	●	■
Atazanavir + ritonavir	■	●	●	◆	●	●	●	◆	◆	●	■
Darunavir/cobicistat	◆	●	●	◆	●	●	●	◆	◆	◆	◆
Darunavir/cobi/FTC/TAF	◆	●	●	◆	●	●	●	◆	◆	◆	◆
Darunavir + ritonavir	◆	●	●	◆	■	■	●	◆	◆	■	◆
Fosamprenavir	■	●	●	◆	■	■	●	◆	◆	●	◆
Indinavir	■	●	●	◆	●	●	●	◆	◆	●	◆
Lopinavir	◆	●	●	■	●	●	●	◆	◆	●	◆
Ritonavir	■	●	●	◆	●	●	●	◆	◆	■	◆
Saquinavir	■	●	●	◆	●	●	●	◆	◆	●	◆
Tipranavir	■	●	●	●	●	●	●	●	●	●	◆

For personal use only. Not for distribution.

Key to symbols

●	These drugs should not be coadministered
■	Potential clinically significant interaction that is likely to require additional 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

Notes

- Further information is available at www.hep-druginteractions.org
- Predicted interactions are based on known metabolic pathways and routes of clearance.
- Caution is required in patients with hepatic impairment as this may also increase drug levels and require dose modification.
- Where advice differs between countries, the charts reflect the more cautious option.

© Liverpool Drug Interactions 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.

HCV Directly Acting Antivirals & RBV

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

DCV, Daclatasvir; EBR/GZR, Elbasvir/Grazoprevir; GLP/PIB, Glecaprevir/Pibrentasvir; LED, Ledipasvir; OBV/PTV/r + DSV, Ombitasvir/Paritaprevir/Ritonavir + Dasabuvir; SMV, Simeprevir; SOF, Sofosbuvir; VEL, Velpatasvir; VOX, Voxilaprevir; RBV, Ribavirin.

	DCV	EBR/ GZR	GLP/ PIB	LED/ SOF	OBV/ PTV/r	OBV/ PTV/r +DSV	SMV	SOF	SOF/ VEL	SOF/ VEL/ VOX	RBV
Hypertension/Heart Failure Agents											
Acebutolol	◆	◆	◆	◆	■	◆	◆	◆	◆	◆	◆
Aliskiren	■	◆	●	■	●	●	■	◆	◆	■	◆
Ambrisentan	◆	■	■	◆	■	■	■	◆	◆	■	◆
Amiloride	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Azilsartan	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Benazepril	◆	◆	◆	◆	■	■	◆	◆	◆	◆	◆
Bendroflumethiazide	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Bosentan	■	●	●	◆	●	●	■	◆	●	●	◆
Bumetanide	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Candesartan	◆	△	△	◆	◆	◆	◆	◆	◆	△	◆
Captopril	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Chlorothiazide	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Chlortalidone	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Cilazapril	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Clevidipine	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Clonidine	◆	◆	◆	◆	△	△	◆	◆	◆	◆	◆
Doxazosin	◆	◆	◆	◆	■	■	■	◆	◆	◆	◆
Enalapril	◆	◆	■	◆	■	■	◆	◆	◆	■	◆
Eplerenone	◆	■	■	■	●	●	■	◆	◆	◆	◆
Epoprostenol	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Eprosartan	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Fosinopril	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Furosemide	◆	◆	◆	◆	■	■	◆	◆	◆	◆	◆
Hydralazine	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Hydrochlorothiazide	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Iloprost	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Indapamide	◆	◆	◆	◆	■	■	■	◆	◆	◆	◆
Irbesartan	◆	◆	■	■	■	■	◆	◆	◆	△	◆
Isradipine	■	■	■	■	■	■	■	◆	◆	■	◆
Ivabradine	◆	◆	◆	◆	●	●	■	◆	◆	◆	◆
Lacidipine	◆	◆	◆	◆	■	■	■	◆	◆	◆	◆
Lercanidipine	◆	◆	◆	◆	●	●	■	◆	◆	◆	◆
Lisinopril	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Losartan	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Macitentan	◆	◆	◆	◆	■	■	■	◆	◆	◆	◆
Methyldopa	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Metolazone	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Moxonidine	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Olmesartan	■	◆	■	◆	■	■	◆	◆	◆	■	◆
Perindopril	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Prazosin	◆	■	■	◆	◆	◆	◆	◆	■	■	◆
Quinapril	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Ramipril	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Ranolazine	■	■	■	■	●	●	■	◆	◆	■	◆
Rilmenidine	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Riociguat	◆	◆	◆	◆	●	●	◆	◆	◆	◆	◆
Selexipag	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Sildenafil	◆	◆	◆	◆	●	●	■	◆	◆	◆	◆
Spironolactone	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Tadalafil	◆	◆	◆	◆	■	■	■	◆	◆	◆	◆
Telmisartan	◆	◆	■	◆	■	■	◆	◆	◆	■	◆
Torasemide	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Trandolapril	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Treprostinil	◆	◆	◆	◆	△	△	◆	◆	◆	◆	◆
Valsartan	◆	◆	◆	◆	■	■	◆	◆	◆	■	◆
Xipamide	◆	◆	◆	◆	△	△	◆	◆	◆	◆	◆
Zofenopril	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆

	DCV	EBR/ GZR	GLP/ PIB	LED/ SOF	OBV/ PTV/r	OBV/ PTV/r +DSV	SMV	SOF	SOF/ VEL	SOF/ VEL/ VOX	RBV
Illicit/Recreational											
Alcohol	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Amphetamine	◆	◆	◆	◆	■	■	◆	◆	◆	◆	◆
Cannabis	◆	◆	◆	◆	△	△	◆	◆	◆	◆	◆
Carfentanil	●	●	●	●	●	●	●	●	●	●	●
Cocaine	◆	◆	◆	◆	■	■	◆	◆	◆	◆	◆
Ecstasy (MDMA)	◆	◆	◆	◆	■	■	◆	◆	◆	◆	◆
GHB (Gamma-hydroxybutyrate)	◆	■	■	◆	■	■	■	◆	◆	◆	◆
Heroin	◆	◆	◆	◆	■	■	◆	◆	◆	◆	◆
LSD (Lysergic acid diethylamide)	◆	◆	◆	◆	■	■	◆	◆	◆	◆	◆
Mephedrone	◆	◆	◆	◆	■	■	◆	◆	◆	◆	◆
Methamphetamine	◆	◆	◆	◆	■	■	◆	◆	◆	◆	◆
Phencyclidine (PCP)	◆	◆	◆	◆	■	■	■	◆	◆	◆	◆
Immunosuppressants											
Alemtuzumab	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Azathioprine	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	■
Basiliximab	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Brodalumab	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Ciclosporin	◆	●	■	◆	■	■	●	◆	◆	●	◆
Eculizumab	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Etanercept	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Fingolimod	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Lenalidomide	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Mycophenolate	◆	◆	◆	◆	■	■	◆	◆	◆	◆	◆
Pirfenidone	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Sirolimus	◆	■	■	◆	●	●	■	◆	◆	■	◆
Tacrolimus	◆	■	■	◆	●	●	■	◆	◆	■	◆
Lipid Lowering Agents											
Atorvastatin	■	■	●	■	●	●	■	◆	■	●	◆
Bezafibrate	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Ezetimibe	◆	◆	■	◆	■	■	◆	◆	◆	■	◆
Fenofibrate	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Fish oils	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Fluvastatin	■	■	■	■	■	■	◆	◆	■	●	◆
Gemfibrozil	◆	■	■	◆	◆	●	■	◆	◆	◆	◆
Lovastatin	■	■	●	■	●	●	■	◆	■	●	◆
Pitavastatin	■	◆	■	■	■	■	■	◆	■	●	◆
Pravastatin	■	◆	■	■	■	■	■	◆	◆	■	◆
Rosuvastatin	■	■	■	●	■	■	■	◆	■	●	◆
Simvastatin	■	■	●	■	●	●	■	◆	■	●	◆

For personal use only. Not for distribution.

For personal use only. Not for distribution.

For personal use only. Not for distribution.

Key to symbols

●	These drugs should not be coadministered
■	Potential clinically significant interaction that is likely to require additional 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

Notes

- Further information is available at www.hep-druginteractions.org
- Predicted interactions are based on known metabolic pathways and routes of clearance.
- Caution is required in patients with hepatic impairment as this may also increase drug levels and require dose modification.
- Where advice differs between countries, the charts reflect the more cautious option.

© Liverpool Drug Interactions 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.

HCV Directly Acting Antivirals & RBV

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

DCV, Daclatasvir; EBR/GZR, Elbasvir/Grazoprevir; GLP/PIB, Glecaprevir/Pibrentasvir; LED, Ledipasvir; OBV/PTV/r + DSV, Ombitasvir/Paritaprevir/Ritonavir + Dasabuvir; SMV, Simeprevir; SOF, Sofosbuvir; VEL, Velpatasvir; VOX, Voxilaprevir; RBV, Ribavirin.

	DCV	EBR/ GZR	GLP/ PIB	LED/ SOF	OBV/ PTV/r	OBV/ PTV/r +DSV	SMV	SOF	SOF/ VEL	SOF/ VEL/ VOX	RBV
Other Drugs											
Acamprosate	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Acetazolamide	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Acitretin	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Activated charcoal	△	△	△	△	△	△	△	△	△	△	△
Allopurinol	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	■
Atomoxetine	◆	◆	◆	◆	△	△	◆	◆	◆	◆	◆
Atropine	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Baclofen	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Benralizumab	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Betahistine	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Bimatoprost	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Biperiden	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Brinzolamide	◆	◆	◆	◆	■	■	◆	◆	◆	◆	◆
Bromocriptine	◆	◆	◆	◆	■	■	△	◆	◆	◆	◆
Calcitonin	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Calcium carbimide	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Calcium resonium	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Cannabidiol (CBD)	◆	◆	◆	◆	■	■	◆	◆	◆	◆	◆
Carbimazole	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Carisoprodol	◆	◆	◆	◆	■	■	◆	◆	◆	◆	◆
Cilostazol	◆	◆	◆	◆	■	■	■	◆	◆	◆	◆
Clomifene	◆	◆	◆	◆	△	△	△	◆	◆	◆	◆
Colchicine	■	■	■	■	■	■	■	◆	■	■	◆
Colestyramine	△	△	△	△	△	△	△	△	△	△	△
Conivaptan	●	◆	◆	◆	●	●	●	◆	◆	◆	◆
Cyclobenzaprine	◆	◆	◆	◆	△	△	■	◆	◆	◆	◆
Cytisine	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Darbepoetin	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Deferiprone	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Denosumab	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Dexamfetamine	△	△	△	△	■	■	△	◆	△	△	◆
Dextromethorphan	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Disulfiram	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Donepezil	◆	◆	◆	◆	■	■	■	◆	◆	◆	◆
Dorzolamide	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Dupilumab	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Eliglustat	◆	■	■	◆	●	●	■	◆	◆	◆	◆
Epoetin alfa	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Etelcalcetide	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Febuxostat	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Filgrastim	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Flibanserin	◆	■	■	◆	●	●	■	◆	◆	◆	◆
Gadopentetate (gadolinium)	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Glycerol phenylbutyrate	△	△	△	△	△	△	△	◆	△	△	◆
Goserelin	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Isosorbide mononitrate	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Isotretinoin	◆	◆	◆	◆	■	■	◆	◆	◆	◆	◆
Lanreotide	△	◆	◆	◆	△	△	△	◆	◆	◆	◆
Levothyroxine	△	◆	◆	◆	■	■	◆	◆	◆	◆	■
Lofexidine	△	△	△	△	△	△	△	◆	△	△	◆
Lumacaftor/Ivacaftor	●	●	●	●	●	●	●	●	●	●	◆
Magnesium	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Melatonin	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Memantine	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Methylphenidate	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Minoxidil	◆	◆	◆	◆	△	△	◆	◆	◆	◆	◆
Modafinil	■	●	■	■	■	■	■	■	●	●	◆
Naftidrofuryl	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Nalmefene	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Naloxone	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Naltrexone	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Neostigmine	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Nicorandil	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Nusinersan	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Ocrelizumab	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Orlistat	△	△	△	△	△	△	△	△	△	△	△
Penicillamine	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Pentoxifylline	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Phenylephrine	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Pilocarpine	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Piracetam	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Potassium	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Protamine sulphate	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Pseudoephedrine	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Pyridostigmine	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Raloxifene	◆	◆	◆	◆	■	■	◆	◆	◆	◆	◆
Sevelamer	△	◆	△	△	△	△	△	△	△	△	△
Strontium ranelate	△	△	△	△	△	△	△	△	△	△	△
Thalidomide	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	■
Tranexamic acid	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Varenicline	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆

	DCV	EBR/ GZR	GLP/ PIB	LED/ SOF	OBV/ PTV/r	OBV/ PTV/r +DSV	SMV	SOF	SOF/ VEL	SOF/ VEL/ VOX	RBV
Oxytocics											
Ergometrine (ergonovine)	◆	■	■	■	●	●	●	◆	◆	◆	◆
Mifepristone	△	◆	◆	◆	■	■	■	◆	◆	◆	◆
Misoprostol	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Parkinsonism Agents											
Benztropine	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Carbidopa	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Orphenadrine	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Pramipexole	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Procyclidine	◆	◆	◆	◆	△	△	◆	◆	◆	◆	◆
Rasagiline	◆	◆	◆	◆	■	■	◆	◆	◆	◆	◆
Ropinirole	◆	◆	◆	◆	■	■	◆	◆	◆	◆	◆
PBC Agents											
Obeticholic acid	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Ursodeoxycholic acid	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Steroids											
Beclometasone	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Betamethasone	◆	◆	◆	◆	■	■	■	◆	◆	◆	◆
Budesonide	◆	◆	◆	◆	●	●	■	◆	◆	◆	◆
Ciclesonide	◆	◆	◆	◆	■	■	◆	◆	◆	◆	◆
Clobetasol (topical)	◆	◆	◆	◆	■	■	◆	◆	◆	◆	◆
Clobetasone (topical)	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Dexamethasone	●	■	■	◆	■	■	●	◆	◆	■	◆
Fludrocortisone	◆	◆	◆	◆	■	■	■	◆	◆	◆	◆
Flunisolide	◆	◆	◆	◆	■	■	■	◆	◆	◆	◆
Fluticasone	◆	◆	◆	◆	●	●	◆	◆	◆	◆	◆
Hydrocortisone (topical)	◆	◆	◆	◆	■	■	◆	◆	◆	◆	◆
Methylprednisolone	◆	◆	◆	◆	■	■	■	◆	◆	◆	◆
Mometasone	◆	◆	◆	◆	●	●	◆	◆	◆	◆	◆
Prednicarbate	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Prednisone	◆	◆	◆	◆	■	■	■	◆	◆	◆	◆
Triamcinolone	◆	◆	◆	◆	●	●	■	◆	◆	◆	◆
Urological Agents											
Alfuzosin	◆	◆	◆	◆	●	●	■	◆	◆	◆	◆
Desmopressin	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Dutasteride	◆	◆	◆	◆	■	■	■	◆	◆	◆	◆
Finasteride	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Mirabegron	◆	△	■	◆	■	■	△	◆	◆	◆	◆
Silodosin	■	■	■	■	●	●	■	◆	■	■	◆
Solifenacin	◆	△	△	◆	■	■	△	◆	◆	◆	◆
Tamsulosin	◆	◆	◆	◆	■	■	■	◆	◆	◆	◆
Tolterodine	◆	◆	◆	◆	■	■	■	◆	◆	◆	◆

For personal use only. Not for distribution.

For personal use only. Not for distribution.

For personal use only. Not for distribution.

Key to symbols

●	These drugs should not be coadministered
■	Potential clinically significant interaction that is likely to require additional 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

Notes

- Further information is available at www.hep-druginteractions.org
- Predicted interactions are based on known metabolic pathways and routes of clearance.
- Caution is required in patients with hepatic impairment as this may also increase drug levels and require dose modification.
- Where advice differs between countries, the charts reflect the more cautious option.

© Liverpool Drug Interactions 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.