

# Interactions with NNRTIs

Charts revised January 2012. Full information available at [www.hiv-druginteractions.org](http://www.hiv-druginteractions.org)

	DLV	EFV	ETV	NVP	RPV
<b>Analgesics</b>					
Alfentanil	□	□	□	□	◇
Aspirin	◇	◇	◇	◇	◇
Buprenorphine	■	■	■	■	◇
Celecoxib	□	□	□	□	◇
Codeine	□	□	□	□	◇
Dextropropoxyphene	□	◇	◇	◇	◇
Diamorphine (diacetylmorphine)	◇	◇	◇	◇	◇
Diclofenac	◇	◇	◇	◇	◇
Dihydrocodeine	□	□	□	□	◇
Fentanyl	□	□	□	■	◇
Ibuprofen	◇	◇	◇	◇	◇
Mefenamic acid	□	□	□	□	◇
Methadone	■	■	■	■	■
Morphine	◇	◇	◇	◇	◇
Naproxen	◇	◇	◇	◇	◇
Nimesulide	◇	◇	◇	◇	◇
Paracetamol	◇	◇	◇	◇	◇
Pethidine (Meperidine)	□	◇	◇	◇	◇
Piroxicam	◇	◇	◇	◇	◇
Tramadol	□	□	□	◇	◇
<b>Antiarrhythmics</b>					
Amiodarone	■	□	■	■	■
Bepidil	■	●	■	■	■
Disopyramide	□	□	■	■	■
Flecainide	■	□	■	■	◇
Lidocaine (Lignocaine)	■	□	■	■	◇
Mexiletine	□	□	■	□	◇
Propafenone	■	□	■	■	■
Quinidine	■	□	■	□	■
<b>Antibacterials</b>					
Amikacin	◇	◇	◇	◇	◇
Amoxicillin	◇	◇	◇	◇	◇
Azithromycin	◇	◇	◇	◇	◇
Ciprofloxacin	◇	◇	◇	◇	◇
Clarithromycin	■	■	■	■	■
Clavulanic acid	◇	◇	◇	◇	◇
Clindamycin	◇	◇	◇	◇	◇
Dapsone	□	◇	◇	◇	◇
Ertapenem	◇	◇	◇	◇	◇
Erythromycin	◇	◇	■	■	■
Ethambutol	◇	◇	◇	◇	◇
Isoniazid	◇	◇	◇	◇	◇
Meropenem	◇	◇	◇	◇	◇
Metronidazole	◇	◇	◇	◇	◇
Moxifloxacin	◇	◇	◇	◇	■
Ofloxacin	◇	◇	◇	◇	◇
Penicillins	◇	◇	◇	◇	◇
Pyrazinamide	◇	◇	◇	◇	◇
Rifabutin	●	■	■	■	●
Rifampicin	●	■	■	■	●
Rifapentine	□	□	■	■	■
Streptomycin	◇	◇	◇	◇	◇
Tetracyclines	◇	◇	◇	◇	◇
Trimethoprim/Sulfamethoxazole	◇	◇	◇	◇	◇
<b>Anticonvulsants</b>					
Carbamazepine	●	■	■	■	●
Clonazepam	□	□	□	■	◇
Ethosuximide	□	□	□	■	◇
Gabapentin	◇	◇	◇	◇	◇
Lacosamide	◇	■	■	■	◇
Lamotrigine	◇	◇	◇	◇	◇
Levetiracetam	◇	◇	◇	◇	◇
Oxcarbazepine	□	◇	◇	■	●
Phenobarbital (Phenobarbitone)	●	■	■	■	●
Phenytoin	●	■	■	■	●
Pregabalin	◇	◇	◇	◇	◇
Topiramate	◇	◇	◇	◇	◇
Valproate (Divalproex)	◇	◇	◇	◇	◇
Vigabatrin	◇	◇	◇	◇	◇

	DLV	EFV	ETV	NVP	RPV
<b>Antidepressants</b>					
Amitriptyline	◇	◇	◇	◇	◇
Bupropion	□	■	■	■	◇
Citalopram	■	■	■	■	◇
Clomipramine	◇	□	□	□	◇
Desipramine	◇	◇	◇	◇	◇
Doxepin	□	◇	◇	◇	◇
Fluoxetine	■	◇	◇	◇	◇
Lithium	◇	◇	◇	◇	◇
Mirtazapine	■	■	■	■	◇
Nefazodone	□	□	□	□	◇
Nortriptyline	◇	◇	◇	◇	◇
Paroxetine	◇	◇	◇	◇	◇
Sertraline	□	■	■	■	◇
Trazodone	■	□	□	□	◇
Venlafaxine	□	□	□	□	◇
<b>Anti-diabetics</b>					
Glibenclamide (Glyburide)	□	□	□	□	◇
Gliclazide	□	□	□	□	◇
Glipizide	□	□	□	□	◇
Insulin	◇	◇	◇	◇	◇
Metformin	◇	◇	◇	◇	◇
Pioglitazone	□	□	□	□	◇
Repaglinide	□	□	□	□	◇
Rosiglitazone	◇	◇	□	■	◇
Tolbutamide	□	□	□	□	◇
<b>Antifungals</b>					
Amphotericin B	◇	◇	◇	◇	◇
Caspofungin	◇	■	■	■	◇
Fluconazole	◇	◇	◇	◇	■
Flucytosine	◇	◇	◇	◇	◇
Itraconazole	□	■	■	■	■
Ketoconazole	■	■	■	■	■
Miconazole	◇	◇	◇	◇	□
Posaconazole	□	■	■	■	■
Terbinafine	◇	◇	◇	◇	◇
Voriconazole	■	■	■	■	■
<b>Antihistamines</b>					
Astemizole	●	●	○	■	■
Cetirizine	◇	◇	◇	◇	◇
Fexofenadine	□	□	□	□	◇
Loratadine	□	□	□	□	◇
Promethazine	□	□	□	□	◇
Terfenadine	●	●	○	■	■
<b>Antimigraine Agents</b>					
Dihydroergotamine	●	●	○	■	■
Ergotamine	●	●	○	■	■
Sumatriptan	◇	◇	◇	◇	◇
<b>Anti-platelet and Anti-coagulant</b>					
Acenocoumarol	□	□	□	□	◇
Clopidogrel	□	□	□	□	◇
Dabigatran	□	□	□	□	◇
Phenprocoumon	□	□	□	□	◇
Rivaroxaban	□	□	□	□	◇
Warfarin	■	■	■	■	◇
<b>Antiprotozoals</b>					
Amodiaquine	□	●	■	■	◇
Artemisinins	■	■	■	■	■
Atovaquone	◇	■	■	■	■
Chloroquine	◇	◇	◇	◇	■
Halofantrine	●	■	■	■	■
Lumefantrine	■	■	■	■	■
Mefloquine	◇	◇	◇	◇	◇
Pentamidine	◇	◇	◇	◇	■
Primaquine	✦	✦	✦	✦	✦
Proguanil	◇	◇	◇	◇	◇
Pyrimethamine	◇	◇	◇	◇	◇
Quinine	■	■	■	■	■
Sulfadoxine/pyrimethamine	◇	◇	◇	◇	◇

### Key to abbreviations

DLV	Delavirdine (Rescriptor <sup>®</sup> )
EFV	Efavirenz (Sustiva <sup>®</sup> Stocrin <sup>®</sup> )
ETV	Etravirine (Intelence <sup>®</sup> )
NVP	Nevirapine (Viramune <sup>®</sup> )
RPV	Rilpivirine (Edurant <sup>®</sup> )

### Key to symbols

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●/○	These drugs should not be coadministered
■/□	Potential interaction – may require close monitoring, alteration of drug dosage or timing of administration
◇/◇	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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	DLV	EFV	ETV	NVP	RPV
<b>Antipsychotics/Neuroleptics</b>					
Chlorpromazine	□	◇	◇	◇	■
Clozapine	◇	◇	◇	◇	◇
Haloperidol	□	□	□	□	■
Olanzapine	□	□	□	□	◇
Perphenazine	◇	◇	◇	◇	◇
Pimozide	●	●	□	□	■
Quetiapine	□	□	□	□	◇
Risperidone	◇	◇	◇	◇	◇
Sulpiride	◇	◇	◇	◇	◇
Thioridazine	◇	◇	◇	◇	■
<b>Antivirals</b>					
Aciclovir	◇	◇	◇	◇	◇
Adefovir	■	◇	◇	◇	◇
Amantadine	◇	◇	◇	◇	◇
Boceprevir	□	■	□	□	□
Cidofovir	◇	◇	◇	◇	◇
Entecavir	◇	◇	◇	◇	◇
Famciclovir	◇	◇	◇	◇	◇
Foscarnet	◇	◇	◇	◇	◇
Ganciclovir	◇	◇	◇	◇	◇
Oseltamivir	◇	◇	◇	◇	◇
Ribavirin	◇	◇	◇	◇	◇
Rimantadine	◇	◇	◇	◇	◇
Telaprevir	□	■	□	□	□
Valaciclovir	◇	◇	◇	◇	◇
Zanamivir	◇	◇	◇	◇	◇
<b>Anxiolytics/Hypnotics/ Sedatives</b>					
Alprazolam	●	□	□	□	◇
Chlordiazepoxide	◇	◇	◇	◇	◇
Clorazepate	□	□	□	□	◇
Diazepam	□	□	□	□	◇
Estazolam	□	□	□	□	◇
Flunitrazepam	□	□	□	□	◇
Flurazepam	□	□	□	□	◇
Lorazepam	◇	◇	◇	◇	◇
Lormetazepam	◇	◇	◇	◇	◇
Midazolam (oral)	●	●	□	□	◇
Midazolam (parenteral)	●	●	□	□	◇
Oxazepam	◇	◇	◇	◇	◇
Temazepam	◇	◇	◇	◇	◇
Triazolam	●	●	□	□	◇
Zolpidem	□	□	□	□	■
Zopiclone	□	□	□	□	◇
<b>Beta Blockers</b>					
Atenolol	◇	◇	◇	◇	◇
Bisoprolol	◇	◇	◇	◇	◇
Carvedilol	□	□	□	□	◇
Metoprolol	◇	◇	◇	◇	◇
Propranolol	◇	◇	◇	◇	◇
<b>Bronchodilator</b>					
Montelukast	□	□	□	□	◇
Salbutamol	◇	◇	◇	◇	◇
Salmeterol	■	◇	◇	◇	◇
Theophylline	◇	◇	◇	◇	◇
<b>Calcium Channel Blockers</b>					
Amlodipine	■	□	□	□	◇
Diltiazem	■	■	□	□	□
Felodipine	■	■	□	□	◇
Nicardipine	■	■	□	□	◇
Nifedipine	■	■	□	□	◇
Nisoldipine	■	□	□	□	◇
Verapamil	■	■	□	□	□

	DLV	EFV	ETV	NVP	RPV
<b>Contraceptives/HRT</b>					
Drospirenone	■	■	■	■	◇
Dydrogesterone	■	■	■	■	◇
Estradiol	◇	□	◇	□	◇
Ethinylestradiol	◇	■	◇	■	◇
Etonogestrel	■	■	■	■	◇
Levonorgestrel	■	■	■	■	◇
Medroxyprogesterone (IM)	◇	■	◇	◇	◇
Medroxyprogesterone (oral)	■	■	■	■	◇
Norethisterone (Norethindrone)	□	■	◇	■	◇
Norgestimate	■	■	■	■	◇
Ulipristal	□	□	□	□	◇
<b>Cytotoxics</b>					
Bleomycin	◇	◇	◇	◇	◇
Cyclophosphamide	◇	□	◇	■	◇
Cytarabine	◇	◇	◇	◇	◇
Dacarbazine	□	◇	◇	◇	◇
Docetaxel	■	■	■	■	■
Doxorubicin	◇	◇	◇	◇	◇
Etoposide	□	□	□	□	◇
Irinotecan	□	□	□	□	◇
Paclitaxel	■	■	■	■	◇
Tamoxifen	■	■	■	■	◇
Vinblastine	□	□	□	□	◇
Vincristine	□	□	□	□	◇
<b>Erectile Dysfunctional Agents</b>					
Sildenafil (Erectile Dysfunction)	■	■	■	■	◇
Tadalafil	□	■	■	■	◇
Vardenafil	□	■	■	■	◇
<b>Gastrointestinal Agents</b>					
Antacids	■	◇	◇	◇	■
Cimetidine	■	◇	◇	◇	■
Cisapride	●	●	■	■	■
Esomeprazole	■	◇	◇	◇	●
Famotidine	■	◇	◇	◇	■
Lansoprazole	■	◇	◇	◇	●
Loperamide	◇	◇	◇	◇	◇
Mesalazine	◇	◇	◇	◇	◇
Omeprazole	■	◇	◇	◇	●
Pantoprazole	■	◇	◇	◇	●
Rabeprazole	■	◇	◇	◇	●
Ranitidine	■	◇	◇	◇	■
<b>Gastrointestinal Agents (anti-emetics)</b>					
Domperidone	□	□	□	□	■
Dronabinol	◇	□	□	□	◇
Metoclopramide	◇	◇	◇	◇	◇
Ondansetron	◇	◇	◇	◇	◇
Prochlorperazine	◇	◇	◇	◇	◇
<b>General Anaesthetics &amp; Muscle Relaxants</b>					
Cisatracurium	◇	◇	◇	◇	◇
Desflurane	◇	◇	◇	◇	◇
Dexmedetomidine	◇	□	◇	□	◇
Enflurane	◇	◇	◇	◇	◇
Halothane	◇	◇	◇	◇	◇
Isoflurane	◇	◇	◇	◇	◇
Ketamine	□	□	□	□	◇
Propofol	◇	□	◇	□	◇
Rocuronium	◇	□	◇	◇	◇
Sevoflurane	◇	◇	◇	◇	■
Sufentanil	□	□	□	□	◇
Suxamethonium (succinylcholine)	◇	◇	◇	◇	◇

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<b>Herbals/Supplements/Vitamins</b>					
Cyanocobalamin	◇	◇	◇	◇	◇
Echinacea	□	□	□	□	□
Folic acid	◇	◇	◇	◇	◇
Garlic	□	□	□	□	□
Ginkgo biloba	□	□	□	□	□
Grapefruit juice	◇	◇	◇	◇	◇
Hops ( <i>Humulus lupulus</i> )	□	□	□	□	□
Milk thistle	◇	◇	◇	◇	◇
Quercetin	✦	✦	✦	✦	✦
Seville orange juice	◇	◇	◇	◇	◇
St John's Wort	●	●	●	●	●
Valerian	◇	◇	◇	◇	◇
Vitamin E	◇	◇	◇	◇	◇
<b>Hypertension / Heart Failure Agents</b>					
Amiloride	◇	◇	◇	◇	◇
Bendroflumethiazide	◇	◇	◇	◇	◇
Bosentan	□	□	□	□	□
Candesartan	◇	◇	◇	◇	◇
Chlortalidone	◇	◇	◇	◇	◇
Cilazapril	◇	◇	◇	◇	◇
Doxazosin	□	□	□	□	□
Enalapril	◇	◇	◇	◇	◇
Furosemide	□	□	□	□	◇
Indapamide	◇	◇	◇	◇	◇
Irbesartan	□	□	□	□	◇
Lacidipine	□	□	□	□	◇
Lercanidipine	□	□	□	□	◇
Lisinopril	◇	◇	◇	◇	◇
Losartan	□	□	□	□	◇
Olmesartan	◇	◇	◇	◇	◇
Perindopril	◇	◇	◇	◇	◇
Quinapril	◇	◇	◇	◇	◇
Ramipril	◇	◇	◇	◇	◇
Sildenafil (PAH)	□	□	□	□	◇
Telmisartan	◇	◇	◇	◇	◇
Trandolapril	◇	◇	◇	◇	◇
Valsartan	◇	◇	◇	◇	◇
<b>Illicit/Recreational</b>					
Alcohol	◇	◇	◇	◇	◇
Cocaine	□	□	□	□	□
Gamma-hydroxybutyrate	◇	◇	◇	◇	◇
Marijuana	◇	◇	◇	◇	◇
MDMA (Ecstasy)	□	◇	◇	◇	◇
Methamphetamine	□	◇	◇	◇	◇
<b>Immune Modulators</b>					
Hydroxyurea	◇	◇	◇	◇	◇
Interferon alpha	◇	◇	◇	◇	◇
Interleukin 2	◇	◇	◇	◇	◇
Peginterferon alfa-2a	◇	◇	◇	◇	◇

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<b>Immunosuppressants</b>					
Azathioprine	◇	◇	◇	◇	◇
Ciclosporin	□	□	□	□	□
Mycophenolate	□	□	□	□	◇
Sirolimus	□	□	□	□	◇
Tacrolimus	□	□	□	□	□
<b>Lipid Lowering Agents</b>					
Atorvastatin	□	□	□	□	◇
Bezafibrate	◇	◇	◇	◇	◇
Clofibrate	◇	◇	◇	◇	◇
Ezetimibe	◇	◇	◇	◇	◇
Fenofibrate	◇	◇	◇	◇	◇
Fish oils	◇	◇	◇	◇	◇
Fluvastatin	□	□	□	□	◇
Gemfibrozil	◇	◇	◇	◇	◇
Lovastatin	●	□	□	□	◇
Pravastatin	◇	□	□	□	◇
Rosuvastatin	◇	◇	□	◇	◇
Simvastatin	●	□	□	□	◇
<b>Other</b>					
Alendronic Acid	□	□	□	□	□
Alfuzosin	□	□	□	□	◇
Allopurinol	◇	◇	◇	◇	◇
Apomorphine	□	□	□	□	◇
Biperiden	◇	◇	◇	◇	◇
Caffeine	◇	◇	◇	◇	◇
Calcium	◇	◇	◇	◇	◇
Digoxin	□	□	□	□	◇
Disulfiram	◇	◇	◇	◇	◇
Dutasteride	□	□	□	□	◇
Ergometrine (Ergonovine)	●	●	○	□	□
Ibandronic acid	□	□	□	□	□
Isotretinoin	□	□	□	□	◇
Levodopa	◇	◇	◇	◇	◇
Nicorandil	◇	◇	◇	◇	◇
Orlistat	◇	◇	◇	◇	◇
Potassium	◇	◇	◇	◇	◇
Pramipexole	◇	◇	◇	◇	◇
Spironolactone	◇	◇	◇	◇	◇
Tamsulosin	□	□	□	□	◇
Torasemide	□	□	□	□	◇
Tranexamic acid	◇	◇	◇	◇	◇
Varenicline	◇	◇	◇	◇	◇
<b>Steroids</b>					
Budesonide	□	◇	◇	◇	◇
Dexamethasone	□	□	□	□	●
Fludrocortisone	□	□	□	□	◇
Fluticasone	□	◇	◇	◇	◇
Hydrocortisone (oral)	□	□	□	□	◇
Hydrocortisone (topical)	◇	◇	◇	◇	◇
Megestrol acetate	◇	◇	◇	◇	◇
Mometasone	□	◇	◇	◇	◇
Nandrolone	◇	◇	◇	◇	◇
Oxandrolone	✦	✦	✦	✦	✦
Prednisolone	□	□	□	□	◇
Stanzazol	□	□	□	□	◇
Testosterone	□	□	□	□	◇

## Key to abbreviations

DLV	Delavirdine (Rescriptor <sup>®</sup> )
EFV	Efavirenz (Sustiva <sup>®</sup> Stocrin <sup>®</sup> )
ETV	Etravirine (Intelence <sup>®</sup> )
NVP	Nevirapine (Viramune <sup>®</sup> )
RPV	Rilpivirine (Edurant <sup>®</sup> )

## Key to symbols

Filled symbols indicate further information on the interaction is available at [www.hiv-druginteractions.org](http://www.hiv-druginteractions.org).  
Empty symbols indicate the combination has not been studied; an interaction has been predicted based on the metabolic profiles of the drugs.

●/○	These drugs should not be coadministered
□/◇	Potential interaction – may require close monitoring, alteration of drug dosage or timing of administration
◇/◇	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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