# Interactions with NRTIs

Charts revised July 2019. Full information available at www.hiv-druginteractions.org

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

## Drugs that Showed No Evidence of Interactions with NRTIs

- **Abbreviations**
  - ABC: Abacavir (+Atripla®)  
  - ddI: Didanosine (Videx®)  
  - FTC: Emtricitabine  
  - TDF: Tenofovir  
  - FTC/FTC: Emtricitabine + Tenofovir  
  - d4T: Stavudine  
  - d4T/FTC: Tenofovir + Stavudine  

- **ABC**  
  - ddI  

## Key to abbreviations

- ABC: Abacavir (+Atripla®)  
- ddI: Didanosine (Videx®)  
- FTC: Emtricitabine  
- TDF: Tenofovir  
- FTC/FTC: Emtricitabine + Tenofovir  
- d4T: Stavudine  
- d4T/FTC: Tenofovir + Stavudine

## Key to symbols

- These drugs should not be coadministered
- Potential interaction: may require adjustment of drug dosage or timing of administration
- Potential interaction likely to be of weak intensity. Additional monitoring or dosage adjustment is unlikely to be required
- No clinically significant interaction expected

---

## Anaesthetics & Muscle Relaxants

- Acuronium  
- Bupivacaine  
- Cisatracurium  
- Desflurane  
- Dexametomidine  
- Enflurane  
- Ephedrine  
- Halothane  
- Isoflurane  
- Ketamine  
- Nitrous oxide  
- Propofol  
- Rocuronium  
- Sevofluane  
- Sufentanil  
- Succinylcholine  
- Thiopental  
- Tizanidine  
- Vecuronium

## Analgesics

- Alfentanil  
- Aspirin  
- Buprenorphine  
- Celecoxib  
- Codeine  
- Dextromorphan  
- Diclofenac  
- Diclofenac  
- Dihydrocodeine  
- Fentanyl  
- Hydrocortisone  
- Hydroxocaine  
- Ibuprofen  
- Ketoprofen  
- Ketorolac  
- Naproxen  
- Nimesulide  
- Oxycodone  
- Paracetamol (Acetaminophen)  
- Pethidine (Meperidine)  
- Pirosidone  
- Tapentadol  
- Tramadol

## Antihistaminics

- Albenzamide  
- Dothiothricarcinamide  
- Terfenadine  
- Levamisole (Ergamisol)  
- Mebendazole  
- Niclosamide  
- Oxamnique  
- Praziquantel  
- Pyrantel  
- Suramin sodium  
- Trihibenchozide  

## Antiarhythmic agents

- Amiodarone  
- Bepridil  
- Disopyramide  
- Dofetilide  
- Flecaïnine  
- Lidocaine (Lignocaine)  
- Mexiletine  
- Propafenone  
- Quinidine

## Antibacterials

- Amikacin  
- Amoxicillin  
- Ampicillin  
- Azithromycin  
- Bedaquiline  
- Capreomycin  
- Cefalexin  
- Cefazolin  
- Ceftriaxone  
- Cefotaxime  
- Ceftazidine  
- Ceferoxone  
- Chloramphenicol  
- Clarithromycin  
- Clavulanic acid  
- Clindamycin  
- Clindamycin  
- Cloflaxin  
- Clocillin  
- Cephacillin  
- Cepalexin  
- Cephalexin  
- Dapsone  
- Doxycycline  
- Ertapenem  
- Erythromycin  
- Flornoxacin  
- Gentamicin  
- Gentiamicin  
- Isonicotin  
- Ketorolac  
- Levofloxacin  
- Meropenem  
- Metronidazole  
- Metronidazole  
- Nitrofurantoin  
- Ofloxacin  
- Pan-aminosalicicylic acid  
- Penicillin  
- Penicillin  
- Rifampicin  
- Rifamycin  
- Rifampicin  
- Rifamycin  
- Rifaxim  
- Rifaximin  
- Spidemycin  
- Spectinomycin  
- Sulfadiazine  
- Sulfamethoxazole  
- Sulfamethoxazole  
- Trimethoprim/Sulfamethoxazole  
- Vancomycin

## Anti-coagulant, Anti-platelet and Fibrinolytic agents

- Acenocoumarol  
- Apixaban  
- Angiotensin  
- Aspirin (low-dose)  
- Betrixaban  
- Clopidogrel  
- Dabigatran  
- Dalteparin  
- Daparinid  
- Edoxaban  
- Eptifibatide  
- Epoxeparin  
- Fondaparinux  
- Heparin  
- Prasugrel  
- Rivaroxaban  
- Simenapside  
- Ticagrelor  
- Warfarin

---

**Key to symbols:**
- These drugs should not be coadministered
- Potential interaction: may require adjustment of drug dosage or timing of administration
- Potential interaction likely to be of weak intensity. Additional monitoring or dosage adjustment is unlikely to be required
- No clinically significant interaction expected

© Liverpool Drug Interaction Group, University of Liverpool

To view our copyright and license information, please visit https://www.liverpool.ac.uk/pharmacy/medicine-drug-interactions/interaction-chart/
<table>
<thead>
<tr>
<th>Key to abbreviations</th>
<th>Key to symbols</th>
</tr>
</thead>
<tbody>
<tr>
<td>ABC      ddI  FTC  d4T  TDF  FTC/TDF</td>
<td></td>
</tr>
<tr>
<td>ddI      ddI  FTC  d4T  TDF  FTC/TDF</td>
<td></td>
</tr>
<tr>
<td>FTC      ddI  FTC  d4T  TDF  FTC/TDF</td>
<td></td>
</tr>
<tr>
<td>d4T      ddI  FTC  d4T  TDF  FTC/TDF</td>
<td></td>
</tr>
<tr>
<td>TDF      ddI  FTC  d4T  TDF  FTC/TDF</td>
<td></td>
</tr>
<tr>
<td>FTC/TDF  ddI  FTC  d4T  TDF  FTC/TDF</td>
<td></td>
</tr>
</tbody>
</table>

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

### Anticonvulsants
- Carbamazepine
- Clonazepam
- Ethcarbazepine
- Ethosuximide
- Gabapentin
- Lamotrigine
- Levetiracetam
- Oxcarbazepine
- Phenobarbital (Phenobarbital)
- Phenytoin
- Pregabalin
- Primidone
- Valproate
- Zonisamide

### Antidepressants
- Agomelatine
- Amitriptyline
- Bupropion
- Clozapramine
- Desipramine
- Doxepin
- Duloxetine
- Escitalopram
- Fluoxetine
- Fluvoxamine
- Imipramine
- Lithium
- Mirtazapine
- Mianserin
- Milnacipran
- Nelfinavir
- Noritryline
- Paroxetine
- Phenelzine
- Reboxetine
- Sertraline
- Tranylcypromine
- Trazodone
- Trimipramine
- Venlafaxine
- Vortioxetine

### Anti-diabetics
- Acarbose
- Canagliflozin
- Dapagliflozin
- Dulaglutide
- Empagliflozin
- Exenatide
- Glimepride (Glibenclamide) (Glyburide)
- Glipizide
- Insulin
- Linagliptin
- Lisinopril
- Metformin
- Nateglinide
- Pioglitazone
- Repaglinide
- Rosiglitazone
- Saxagliptin
- Sitagliptin
- Tolbutamide
- Vildagliptin

### Antifungals
- Amphotericin B
- Anidulafungin
- Caspofungin
- Fluconazole
- Fluconazole
- Glipuzol
- Itraconazole
- Ketoconazole
- Miconazole
- Nystatin
- Posaconazole
- Terbinafine
- Voriconazole

### Antipsychotics/Neuroleptics
- Atypical
- Aripiprazole
- Aripiprazole
- Carbamazepine
- Clozapine
- Fluphenazine
- Haloperidol
- Iloperidone
- Levoloperidone
- Olanzapine
- Paliperidone
- Pimozide
- Perphenazine
- Pipilazine
- Quetiapine
- Risperidone
- Sulpiride
- Thioridazine
- Tiapride
- Zimelidine
- Zypical

### Antimigraine Agents
- Almotriptan
- Dihydroergotamine
- Ergotamine
- RizatRIPTAN
- Sumatriptan

### Antiprotostatics
- Amiodarone
- Artemisinin
- Atorvastatin
- Benzimidazole
- Chloroquine
- Diltiazem
- Etorphine
- Halofantrine
- Lamotrigine
- Meglumine antimonate
- Mefloquine
- Melarsoprol
- Mifepristone
- Mifepristone
- Pravastatin
- Pyrimethamine
- Quinine
- Sodium salicylate
- Sulphadiazine

### Antituberculosis Agents
- Rifabutin
- Rifampicin
- Pyrazinamide
- Isoniazid
- Ethambutol
- Ethionamide
- Pyrazinamide
- Pyrazinamide
- Rifampicin
- Streptomycin (Strptomycin)

### Antivirals/Treatment of opportunistic infections
- F/TAF
- FTC
- TDF
- FTC/TDF

Where advice differs between countries, and/or between boosted and unboosted regimens, the charts reflect the more cautious option.

© Liverpool Drug Interaction Group, University of Liverpool, School of Pharmacy, Department of Pharmacology

We aim to ensure that information is accurate and consistent with contemporary knowledge and practice. However, the University of Liverpool cannot be held responsible for errors in the drug interaction charts. The information provided is for the use of healthcare professionals and, therefore, is not for distribution, nor should it be used for any other purpose. The publisher Liverpool University Press accepts no liability for errors, omissions or inaccuracies to the fullest extent permitted by law.
### Interactions with NRTIs

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

<table>
<thead>
<tr>
<th>Antivirals</th>
<th>ABC</th>
<th>ddl</th>
<th>FTC</th>
<th>FTAF</th>
<th>FTF/DF</th>
<th>FTC/DF</th>
<th>FTCD</th>
<th>d4T</th>
<th>TDF</th>
<th>D4N</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aciclovir</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Adenovir</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Amantadine</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Boceprevir</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cidofovir</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Daclatasvir</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Elbasvir/Grazoprevir</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Entecavir</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Famciclovir</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Foscarnet</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ganciclovir</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ganciclovir/PHase2 &amp; Phase3</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Idelalisib</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ledipasvir/Sofosbuvir</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ombitasvir/Praladenavir</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ombitasvir/Praladenavir + Dasabuvir</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oseltamivir</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Palifosfamide</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ribavirin</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rimantadine</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sitravir</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sofosbuvir</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sofosbuvir/Velpatasvir</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sofosbuvir/Velpatasvir/Voxilaprevir</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Telaprevir</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Telbivudine</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tenofovir alafenamide (HBV)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Valaciclovir</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Zanamivir</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Calcium Channel Blockers</th>
<th>ABC</th>
<th>ddl</th>
<th>FTC</th>
<th>FTAF</th>
<th>FTF/DF</th>
<th>FTC/DF</th>
<th>FTCD</th>
<th>d4T</th>
<th>TDF</th>
<th>D4N</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adefovir</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dabrafenib/Trametinib</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dabrafenib</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dabrafenib/Trametinib</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Daclatasvir</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Daclatasvir/Elbasvir</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Daclatasvir/Grazoprevir</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Daclatasvir/Praladenavir</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Daclatasvir/Praladenavir + Dasabuvir</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dapagliflozin</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dapagliflozin/Canagliflozin</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dapagliflozin/Canagliflozin + Metformin</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dapagliflozin + Metformin</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dapagliflozin/Canagliflozin + Metformin</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dapagliflozin/Canagliflozin + Metformin + Sodium-glucose cotransporter-2 inhibitor</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Key to abbreviations</th>
</tr>
</thead>
<tbody>
<tr>
<td>ABC</td>
</tr>
<tr>
<td>ddl</td>
</tr>
<tr>
<td>FTAF</td>
</tr>
<tr>
<td>FTC/DF</td>
</tr>
<tr>
<td>d4T</td>
</tr>
<tr>
<td>D4N</td>
</tr>
<tr>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Key to symbols</th>
</tr>
</thead>
<tbody>
<tr>
<td>These drugs should not be coadministered</td>
</tr>
<tr>
<td>Potential interaction requires close monitoring or alteration of drug dosage or timing of administration</td>
</tr>
<tr>
<td>Potential interaction likely to be of weak intensity. Additional antiemotherapy or dosage adjustment is unlikely to be required</td>
</tr>
<tr>
<td>No clinically significant interaction expected</td>
</tr>
</tbody>
</table>

© Liverpool Drug Interaction Group, University of Liverpool

We make every effort to ensure that information is accurate and consistent with current knowledge and practice, however, the opinions or conclusions expressed in any particular publication will not necessarily be endorsed by the institution or be current at the time of publication. The authors and the publisher disclaim liability for errors, omissions or inaccuracies in the fullest extent permitted by law.
### Interactions with NRTIs

**Key to abbreviations**
- ABC: ABC (Abacavir)
- F/TDF: F/TDF (Emtricitabine + Tenofovir Disoproxil Fumarate)
- FTC: FTC (Emtricitabine + Tenofovir)
- TDF: TDF (Tenofovir Disoproxil Fumarate)
- TDF/FTC: TDF/FTC (Tenofovir Disoproxil Fumarate + Emtricitabine)

**Key to symbols**
- These drugs should not be coadministered.
- Note that a drug is not listed it cannot automatically be assumed it is safe to coadminister.

<table>
<thead>
<tr>
<th>Contraceptives/HRT</th>
<th>ABC</th>
<th>F/TDF</th>
<th>FTC</th>
<th>FTC/FTD</th>
<th>TDF</th>
<th>ZDV</th>
</tr>
</thead>
<tbody>
<tr>
<td>Desogestrel (COC)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Desogestrel (POP)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Drospirenone (HRT)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Drospirenone (COC)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dydrogesterone (HRT)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Estradiol</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ethinylestradiol</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Etinogestrel (implant)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Etinogestrel (vaginal ring)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gestodene (COC)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Levonorgestrel (COC)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Levonorgestrel (emergency contraception)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Levonorgestrel (HRT)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Levonorgestrel (lms)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Levonorgestrel (iUD)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Levonorgestrel (POP)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Medroxyprogesterone (depot injection)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Medroxyprogesterone (oral)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Norelgestromin (patch)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Norethisterone (Norethindrone) (COC)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Norethisterone (Norethindrone) (HRT)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Norethisterone (Norethindrone) (implant)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Norethisterone (Norethindrone) (POP)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Norgestimate (COC)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Norgestimate (COC)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Norgestimate (HRT)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ulipristal</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Erectile Dysfunctional Agents**

- Avanafil
- Sildenafil (Erectile Dysfunction)
- Tadalafil (Erectile Dysfunction)
- Vardenafil

**Gastrointestinal Agents**

- Aloe resin
- Artacids
- Bisacodyl
- Chelidane
- Cisapride
- Esomeprazole
- Famotidine
- Lactulose
- Lansoprazole
- Loperamide
- Mesalazine
- Metronidazole
- Nimesulide
- Panprazole
- Prucalopride
- Rabeprazole
- Ranitidine
- Senza

**Gastrointestinal Agents (anti-emetics)**

- Apricot
- Dolasetron
- Ondansetron
- Ontronabzon
- Granisetron
- Metclopramide
- Ondansetron
- Prochlorperazine

<table>
<thead>
<tr>
<th>Herbs/Supplements/Vitamins</th>
<th>ABC</th>
<th>F/TDF</th>
<th>FTC</th>
<th>FTC/FTD</th>
<th>TDF</th>
<th>ZDV</th>
</tr>
</thead>
<tbody>
<tr>
<td>African potato</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aloe vera</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ascorbic Acid (vitamin C)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Calcium supplements</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Car’s claw (Uncaria tomentosa)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Colecalciferol (vitamin D3)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cube pepper (Piper cubeba)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cyanocobalamin</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Echinacea</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Eucalyptus globulus</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Folic acid (alone)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Folic acid (in multivitamins)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Garlic</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ginger (Zingiber officinale)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ginkgo biloba</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Goldenseal root (Hydrastis canadensis)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Grapefruit juice</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hops (Humulus lupulus)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Herbs/Supplements/Vitamins (continued)**

- Insulin racemosa
- Iodine
- Iron supplements
- Liquorice (Glycyrrhiza glabra)
- Magnesium supplements
- Malabar nut tree
- Menthol
- Milk thistle (silymarin)
- Multivitamins
- Nicotinamide
- Phytonadione (vitamin K)
- Pyridoxine (vitamin B6)
- Quercetin
- Retinol (vitamin A)
- Riboflavin (vitamin B2)
- Seville orange juice
- Si John’s Wort
- Thiamine (vitamin B1)
- Turmeric (Curcuma longa)
- Valerian
- Vitamin E

**Hypertension / Heart Failure Agents**

- Amlodipine
- Ambrisatin
- Amlodipine
- Bendrofulmazide
- Bisoprolol
- Candesartan
- Captopril
- Chlorobidone
- Clazapril
- Digoxin
- Dopamine
- Doxazosin
- Enalapril
- Epierozone
- Epoprostenol
- Eprosartan
- Fosinopril
- Furosemide
- Hydrandalone
- Hydroticlorofrazide
- Ibutopron
- Indapamide
- Ilosartan
- Ivasobidone dirkote
- Ivasbradine
- Labetalol
- Lacinolipine
- Lercanidine
- Losartan
- Malemonei
- Meloxalzone
- Olmesartan
- Pisodipron
- Prazosin
- Quinapril
- Rampsri
- Ranolazone
- Ritgiouat
- Soranti
- Selsipag
- Silondaf (PAH)
- Sodium nitroprusside
- Spironoladone
- Tadafal (PAH)
- Telmisartan
- Terazosin
- Torasemide
- Trandolapril
- Treprostinil
- Valsartan
- Xipamade

Where advice differs between countries, and/or between boosted and unboosted regimens, the charts reflect the more cautious option.

© Liverpool Drug Interaction Group, University of Liverpool Pharmacy Research Unit, 3rd Floor Block B, 70-72 Pembroke Place, L69 3LD

We aim to ensure that information is accurate and consistent with current knowledge and practice. However, the availability of licit drugs to the patient in an agent used to treat any condition will be dependent on the availability of drug agents and may be subject to legal restrictions. This publication contains data that has been compiled from various sources and may therefore contain errors. The authors of this publication do not accept liability for errors, omissions or inaccuracies in the fullest extent permitted by law.
<table>
<thead>
<tr>
<th>Key to abbreviations</th>
<th>Key to symbols</th>
</tr>
</thead>
<tbody>
<tr>
<td>ABC</td>
<td>These drugs should not be coadministered</td>
</tr>
<tr>
<td>d4T</td>
<td>These drugs should not be coadministered</td>
</tr>
<tr>
<td>FDC</td>
<td>These drugs should not be coadministered</td>
</tr>
<tr>
<td>FT/AF</td>
<td>These drugs should not be coadministered</td>
</tr>
<tr>
<td>FT/DF</td>
<td>These drugs should not be coadministered</td>
</tr>
<tr>
<td>FTC</td>
<td>These drugs should not be coadministered</td>
</tr>
<tr>
<td>P</td>
<td>These drugs should not be coadministered</td>
</tr>
<tr>
<td>ZDV</td>
<td>These drugs should not be coadministered</td>
</tr>
</tbody>
</table>

For personal use only. Not for distribution.