

| Antiretroviral Adverse Effects | | | | |
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| Agent | Adverse Effects | Monitoring Parameters | Pregnancy Category | Notes |
| NRTIs | (ALL) Lactic Acidosis and Hepatic Steatosis | | | |
| Abacavir (Ziagen® ABC) | Potentially Fatal Hypersensitivity Reaction (fever, rash, fatigue, SOB, N/V/D/Abd pain, malaise), HA | HLA-B*5701 test (before initiation), LFTs, CBC, CK | C | Pt will receive info handout at retail pharmacy regarding HSR. Must be HLA-B*5701 negative Not recommended with VL >100K |
| Didanosine (Videx EC® ddI) | Peripheral neuropathy, pancreatitis, anemia, leucopenia, N/V/D/Abd pain, ↑ amylase, rash | CBC, Renal fxn, LFTs, Amylase, weight | B | Dosing based on weight and renal fxn Drug interaction with tenofovir |
| Emtricitabine (Emtriva® FTC) | Skin hyperpigmentation (palms and soles of feet), N/V/D/HA, dizziness, insomnia, rash | Renal fxn | B | |
| Lamivudine (Epivir® 3TC) | N/D/HA, fatigue, insomnia, anemia, dizziness | Renal fxn | C | |
| Stavudine (Zerit® d4T) | Peripheral neuropathy, ↑ bilirubin, lipoatrophy, ↑ LFTs, rash, lipodystrophy, anemia, N/V/D/HA, ↑ lipase/amylase | Renal fxn, LFTs, CBC | C | Dosing based on weight |
| Tenofovir DF (Viread® TDF) | N/V/D/HA, renal dysfxn, bloating/abd discomfort, Fanconi, ↓BMD | Renal fxn, UA, BMD | B | Contains lactose |
| Tenofovir AF (Vemlidy® TAF) | N/HA, abd discomfort, fatigue, cough | Renal fxn, UA | - | Only approved for Tx of HBV at this time. Not recommended for Crcl <15mL/min |
| Zidovudine (Retrovir® ZDV, AZT) | N/V/HA, anemia, neutropenia, fatigue, anorexia, constipation | CBC, Renal fxn, LFTs | C | |
| Combivir® (zidovudine + lamivudine) | See individual components | | C | |
| Truvada® (emtricitabine + tenofovir DF) | See individual components | | B | Also indicated for Tx of HBV and for PrEP |
| Descovy® (emtricitabine + tenofovir AF) | See individual components | | | |
| Cimduo® (lamivudine + tenofovir DF) | See individual components | | | |
| Epzicom® (lamivudine + abacavir) | See individual components | | C | Pt will receive info handout at retail pharmacy regarding HSR. Must be HLA-B*5701 negative Not recommended with VL >100K |
| Trizivir® (zidovudine + lamivudine + abacavir) | See individual components | | C | Pt will receive info handout at retail pharmacy regarding HSR. Must be HLA-B*5701 negative Not recommended with VL >100K |
| NNRTIs | Lots of drug interactions | | | |
| Efavirenz (Sustiva® EFV) | CNS (drowsiness, insomnia, confusion, vivid dreams, dizziness), depression, rash, N/V/D, ↑ LFTs, ↑ lipids, teratogenicity in first trimester | LFTs, lipids | D | Administer on empty stomach |
| Nevirapine (Viramune®, Viramune XR®, NVP) | Rash, hepatotoxicity, ↑ LFTs, N/D/HA/Abd pain, fatigue, flu-like ssx, NVP | LFTs, CBC | B | Do not give in women with CD4 >250 or men with CD4 >400 |
| Etravirine (Intelence® ETR) | Rash, ↑ LFTs, ↑ lipids | LFTs, lipids | B | Orally dissolving tablets; approved as QD in Europe |
| Rilpivirine (Edurant® RPV) | Rash, depressive disorders, HA, N/V, insomnia | LFTs | B | Drug interaction with acid suppressing agents Not recommended with VL >100K or CD4 < 200 Requires 400-500kcal meal |
| Doravirine (Pifeltro® DOR) | Nausea, headache, fatigue, diarrhea, abd pain, dizziness, rash, abnormal dreams, insomnia, somnolence, Neuropsychiatric adverse events (depression and SI) reported incidence: 4%) | LFTs | No data | Substrate of CYP3A metabolism |
| INSTIs | | | | |
| Raltegravir (Isentress®, Isentress HD®, RAL) | ↑ lipids, fatigue , rash, ↑ bilirubin, ↑ LFTs, insomnia, ↑ CPK , Post-marketing reports of depression, suicidal thoughts/behaviors, and skin rash (including SJS) | Lipids | C | |
| Dolutegravir (Tivicay® DTG) | Insomnia, headache , rash, fatigue, abdominal discomfort, weight gain | LFTs, lipids | B | Drug interactions with multi-valent cation-containing meds or administer with food. Mean change in Scr from baseline is 0.15mg/dL. Use with caution in women of child-bearing potential. |

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| PIs | (ALL) Hyperglycemia, Lipodystrophy/Fat redistribution, Lipid abnormalities | Lots of drug interactions | | |
| Atazanavir (Reyataz® ATV) | ↑ Bili , nausea, nephrolithiasis, rash , ↑ LFTs, ↑ amylase, ↑ PR interval | Bilirubin, LFTs, lipids | B | Drug interaction with acid suppressing agents “Lipid neutral” |
| Darunavir (Prezista® DRV) | Rash , N/V/D/HA, ↑ lipids, ↑ LFTs | LFTs, lipids | C | *Sulfa moiety Boxed warning for hepatotoxicity |
| Fosamprenavir (Lexiva® FPV) | Rash , N/D, ↑ LFTs, ↑ TG | LFTs, lipids | C | *Sulfa moiety |
| Indinavir (Crixivan® IDV) | Nephrolithiasis , ↑ bilirubin↓, ↑ LFTs, N/V/D/HA/Abd pain | Fluid status, LFTs, UA, lipids | C | |
| Lopinavir/ritonavir (Kaletra® LPV/r) | N/V/D/Abd pain , ↑ LFTs, rash , ↑ lipids , ↑ amylase, ↑ TG | LFTs, lipids | C | |
| Nelfinavir (Viracept® NFV) | Diarrhea , rash, nausea, ↑ LFTs | LFTs, lipids | B | Does not require RTV |
| Saquinavir (Invirase® SQV) | N/V/D/HA, rash, ↑ LFTs, fatigue | LFTs, lipids, | B | |
| Tipranavir (Aptivus® TPV) | ↑ LFTs, rash, ↑ lipids, N/V/D, intracranial hemorrhage | LFTs, lipids, | C | *Sulfa moiety Boxed warning for ICH |
| Prezcobix® (darunavir + cobicistat) | See individual components | | C | Not recommended with multiple ART that require boosting Not recommended to start in patients with Crcl < 70mL/min |
| Evotaz® (atazanavir + cobicistat) | See individual components | | B | Not recommended with multiple ART that require boosting Not recommended to start in patients with Crcl < 70mL/min |
| EIs | | | | |
| Enfuvirtide (Fuzeon® T-20, ENF) | Injection site reactions , fatigue, insomnia, N/D, eosinophilia | HSR and injection site reactions | B | Admin in upper arm, abdomen, or anterior thigh. Rotate injection sites. Reconstituted vials are only good for 24h. Store reconstituted vials in refrigerator. To reconstitute, mix with 1mL SWFI, tap vial and roll gently between hands. |
| Fostemsavir (Rukobia®) | N/D/HA, abd pain, dyspepsia, fatigue, rash, sleep disturbances, QTc prolongation , transaminitis , elevated Scr (19%) | LFTs | Insufficient data | Causal association with increased Scr has not been established; DDI with ethinyl estradiol – EE should not exceed 30mcg daily. |
| Ibalizumab (Trogarzo®) | Infusion-related reactions, dizziness, rash, N/D, ↑serum creatinine (1.8x ULN or 1.5x baseline), ↑serum lipase (>3x ULN), serum bilirubin (>2.6x ULN) | CBC, renal fxn, LFTs, HSR and injection site reactions | Insufficient data | Requires loading dose (10 vials) then maintenance dose (4 vials) every 14 days. Loading dose required again if miss dose by ≥3 days. Infuse over 30 min – 1h and observe 1h after initial dose then may decrease infusion and observation time to 15 min each. Store vials in refrigerator. Protect from light. |
| Maraviroc (Selzentry® MVC) | ↑ LFTs , fever, URI , cough, dizziness, insomnia, abd pain | LFTs, Tropism test (before initiation) | B | Lots of drug interactions |
| Pharmacokinetic Enhancers | Lots of drug interactions | | | |
| Cobicistat (Tybost® COB) | Nausea, ↑ LFTs | Renal fxn, LFTs, UA | B | Not recommended with multiple ART that require boosting Not recommended to start in patients with Crcl < 70mL/min. May increase Scr up to 0.4mg/dL from baseline |
| Ritonavir (Norvir® RTV) | N/V/D/Abd pain , anorexia paresthesias , ↑ LFTs, taste perversion, ↑ lipids , insulin resistance | LFTs, lipids, glucose, amylase, lipase | B | Take with food |

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| Fixed-Dose Combination Products | | | | |
| Atripla® (emtricitabine + tenofovir DF + efavirenz) | See individual components | | D | Administer on empty stomach |
| Symfi® Symfi Lo® (lamivudine + tenofovir DF + efavirenz) | See individual components | | | Administer on empty stomach |
| Complera® (emtricitabine + rilpivirine + tenofovir DF) | See individual components | | B | Drug interaction with acid suppressing agents Not recommended with VL >100K or CD4 < 200 Requires 400-500kcal meal |
| Odefsey® (emtricitabine + rilpivirine + tenofovir AF) | See individual components | | | Drug interaction with acid suppressing agents. Not recommended with VL >100K or CD4 <200. Not recommended with Crcl <30mL/min. Take “with meal” |
| Delstrigo® (doravirine + lamivudine + tenofovir DF) | See individual components Sleep disorders & disturbances (12%), dizziness (9%), and altered sensorium (4%) | Renal fxn, UA, LFTs, BMD | Insufficient data | Not recommended with Crcl < 50mL/min. |
| Stribild® (cobicistat + elvitegravir + emtricitabine + tenofovir DF) | N/D, renal dysfxn , decreased BMD, abnormal dreams, rash, insomnia, HA See individual components | Renal fxn, UA LFTs, fLP | B | Not recommended with Crcl < 70mL/min |
| Genvoya® (cobicistat + elvitegravir + emtricitabine + tenofovir AF) | N, decreased BMD, abnormal dreams, rash, insomnia, HA | Renal fxn, UA LFTs, fLP | | Not recommended with Crcl < 30mL/min |
| Triumeq® (abacavir + dolutegravir + lamivudine) | See individual components | HLA-B*5701 test (before initiation), LFTs | C | Pt will receive info handout at retail pharmacy regarding HSR. Must be HLA-B*5701 negative. Use with caution in women of child-bearing potential. |
| Biktarvy® (bictegravir + emtricitabine + tenofovir AF) | HA, fatigue, dizziness, insomnia, N/D, ↑serum bilirubin, ↑CPK | Renal fxn, LFTs, UA | | Mean change in Scr from baseline is 0.10mg/dL. Use with caution in women of child-bearing potential. |
| Juluca® (dolutegravir + rilpivirine) | See individual components | LFTs | | Option for switch Tx if pt undetectable on ART for ≥6 months with no h/o Tx failure or resistance to DTG or RPV. Requires 400-500kcal meal. Drug interaction with acid suppressing agents and multi-valent cation-containing meds. Mean change in Scr from baseline is 0.15mg/dL. Use with caution in women of child-bearing potential. |
| Dovato® (dolutegravir + lamivudine) | See individual components | Renal fxn, LFTs | | For ART-naïve patients with no known resistance. Mean change in Scr from baseline is 0.15mg/dL. Use with caution in women of child-bearing potential. Not recommended with Crcl <50 mL/min and if VL > 500k. |