

Summary of antiretrovirals and adverse effects

Nucleoside/nucleotide reverse transcriptase inhibitors

NRTI	Recommended dose	Common or severe ADR
TDF	300 mg daily	Renal failure, tubular wasting syndrome, reduced bone mineral density, nausea
3ТС	150 mg 12-hourly or 300 mg daily	Anaemia (pure red cell aplasia) (rare)
FTC	• 200 mg daily	Anemia (pure red cell aplasia) (rare), palmar hyperpigmentation
ABC	300 mg 12-hourly or 600 mg daily	Hypersensitivity reaction
AZT	• 300 mg 12-hourly	Anaemia, neutropenia, Gl upset, headache, steatohepatitis (medium potential), lipoatrophy

Non-nucleotide reverse transcriptase inhibitors

NNRTI	Recommended dose	Common or severe ADR
EFV	600 mg or 400 mg <i>nocte</i>	CNS symptoms (vivid dreams, problems with concentration, dizziness, confusion, mood disturbance, psychosis, late onset encephalopathy), rash, hepatitis, gynaecomastia
NVP	200 mg daily for 14 days then 200 mg 12-hourly	Rash, hepatitis
RPV	25 mg daily with food	Rash, hepatitis, CNS symptoms (all uncommon)
ETR	• 200 mg 12-hourly	Rash, hepatitis (both uncommon)

Protease inhibitors

PI	Recommended dose	Common or severe ADR
ATV/r	300 mg/100 mg daily; if giv- en with EFV ATV/r 400 mg/100 mg daily	 Unconjugated hyperbilirubinaemia (visible jaundice in a minority of patients), dyslipidemia (low potential), renal stones (rare) and hepatitis (uncommon)
LPV/r	400 mg/100 mg 12-hourly or 800 mg/200 mg daily (only if PI-naïve)	Gl upset, dyslipidemia and hepatitis
DRV/r	 600 mg/100 mg 12-hourly 800 mg/100 mg daily (only if no DRV mutations) Consider 400 mg/100 mg daily (only if no DRV mutations) 	Gl upset, rash, dyslipidemia, hepatitis (uncommon). Contains sulphonamide moiety (use with caution in patients with sulpha allergy)

Integrase strand transfer inhibitors

InSTI	Recommended dose	Common or severe ADR
RAL	• 400 mg 12- hourly	Headache and other CNS side-effects, GI upset, hepatitis and rash (rare), rhabdomyolysis (rare), weight gain
DTG	• 50 mg daily	Insomnia, headache and other CNS side-effects, GI upset, hepatitis and rash (rare). possibly teratogenic, weight gain

- Package inserts of all ARVs and concomitant drugs
- University of Liverpool HIV Drug Interactions
 Checker
- Aid for AIDS clinical guidelines contain tables giving advice on drug-drug interactions
- University of Cape Town Medicines Information
 Centre (MIC) has a regularly updated table of interactions between ARTs and drugs used in the public sector (essentials medicines list)
- MIC HIV & TB Hotline: 0800 212 506 or 021 406 6782

³TC, lamivudine; ABC, abacavir; ADR, adverse drug reaction; ATV/r, ritonavir-boosted atazanavir; AZT, zidovudine;

 $^{{\}it CNS, central nervous sytem; DRV/r, ritonavir-boosted darunavir; DTG, dolute gravir; EFV, efavirenz; ETR, etravirine; FTC, emtricitabine; and the properties of the proper$

GI, gastrointestinal; InSTI, integrase strand transfer inhibitor; LPV/r, ritonavir-boosted lopinavir; MIC, Medicines Information Centre; NVP, nevirapine; NNRTI, non-nucleoside reverse transcriptase inhibitor; NRTI, nucleoside/nucleotide reverse transcriptase inhibitor;